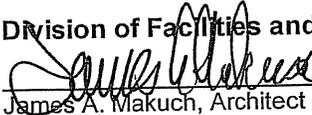


ARTICLE 10: PROJECT SPECIFICATIONS

DEVELOPED BY:	
Division of Facilities and Property Management	
 James A. Makuch, Architect	Nov. 30, 2010 Date

SPECIFICATIONS
SECTION 01010
SUMMARY OF WORK

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Terms and Conditions for Construction Projects" form a part of these specifications by reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 DESCRIPTION OF WORK

- A. The project includes, but is not necessarily limited to, furnishing all labor, materials, tools and equipment to perform the work described in the technical specifications, shown on the project drawings and listed below:
1. Removal of selected pre-cast coping stones from existing brick parapet wall and storage of same for future re-installation on new work.
 2. Demolition of selected areas of the building brick veneer and brick parapet wall including associated flashing materials. Preparation of existing building backup material including steel lintels, where they exist, to accept new masonry, flashing materials and anchoring systems.
 3. Construction of new brick veneer wall and parapet wall including required anchors, ties and flashing materials.
 4. Re-installation of existing pre-cast coping stones on new parapet wall construction including flashing materials and anchoring system.
 5. Removal and disposal of existing roofing membrane materials including existing flashing and rigid insulation materials from selected areas of the building roof.
 6. Preparation of existing concrete roof deck, existing roof drain assemblies, roof curbs and parapet wall surfaces to accept new roofing materials.
 7. Installation of new rigid insulation board, single-ply roofing membrane and membrane flashing materials on designated areas of the building roof.

1.3 PROJECT DRAWINGS

- A. The following drawings are a part of the contract documents:
1. A-1 of 2 Masonry Plans, Details, Notes
 2. A-2 of 2 Roofing Plans, Details, Notes

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1.4 DATE OF COMPLETION

- A. No work shall commence until after the contractor receives a fully executed contract from the Commonwealth.
- B. Contract Completion Date: All work under the contract shall be completed within 120 calendar days from the contract start date as stated in the Notice to Proceed letter from the Commonwealth.
- C. A request for extension of time to the established contract completion date by the contractor shall be submitted, in writing, to the Division of Facilities and Property Management Project Officer. The request shall explain the reason for delays, the steps taken to overcome them and a proposed new contract completion date. If the request is accepted by the Department, the contractor will be directed to complete a Change Order Request - Time Extension on the form included in the contract documents and forward it to the agencies listed on the form for signatures.

1.5 SITE VISIT

- A. The project covered by this contract involves work on the grounds of a Commonwealth-operated mental health facility. It is mandatory that the contractor visit the site prior to submitting his bid to carefully note all existing conditions and to familiarize himself with the conditions under which he will be required to prosecute the work. Any discrepancies regarding the work as described in the contract documents and the existing conditions discovered at the site shall immediately be brought to the attention of the Project Designer for resolution.
- B. All site visits shall be made only after contacting the Facility Maintenance Manager for Torrance State Hospital, Mr. Jesse Welsh, at (724) 459-4597 and arranging for an appointment time. All prospective bidders shall sign the attached Proof of Visit form and present it to the Facility Maintenance Manager at the time of the site visit for validation. **One fully executed copy of the Proof of Visit form shall be returned with the bid documents.**

1.6 CLARIFICATION OF CONTRACT DOCUMENTS

- A. Any request for project clarification of the contract documents, technical specifications or project drawings shall be directed to the Project Designer listed below:

Department of Public Welfare
Division of Facilities and Property Management
P.O. Box 2675, Harrisburg, PA 17105-2675

Attention: James A. Makuch, Architectural Consultant
Telephone: (717) 772-8399 Fax: (717) 772-2091

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- B. Any request for clarification of the contract documents or financial language shall be directed to the contracting officer listed below:

Torrance State Hospital
P.O. Box 111, State Route 1014
Torrance, PA 15779

Attention: Michael Yahner
Telephone: (724) 459-4659 Fax: (724) 459-4498

- C. Any request for clarification of the contract documents, contract language or bidding requirements shall be directed to the project officer listed below:

Department of Public Welfare
Division of Facilities and Property Management
P.O. Box 2675, Harrisburg, PA 17105-2675

Attention: Mr. Greg Kratzer
Telephone: (717) 425-5454 Fax: (717) 772-2091

PART 2 – PRODUCTS

NOT APPLICABLE TO THIS SECTION

PART 3 – EXECUTION

NOT APPLICABLE TO THIS SECTION

END OF SECTION

SECTION 01030
EXPLANATION OF BASE BIDS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Terms and Conditions for Construction Projects" form a part of these specifications by reference thereto and shall have the same force and effect as if printed herewith in full.
- B. It is the intention of the Department of Public Welfare to have all of the work, or as much of the work as possible, completed as shown on the drawing(s) and indicated in the specifications within the project budgeted allocation.

1.2 DESCRIPTION

- A. BASE BID NO. 1 - Base Bid No. 1 shall include all work described herein and detailed on the project drawings and described in the technical specifications to remove selected portions of the building brick veneer and masonry parapet wall construction and replace with new similar construction and to remove selected areas of the building roofing materials and replace with new roofing materials.
- B. BASE BID NO. 2 - Base Bid No. 2 shall include the work described in Base Bid No. 1 except delete all work to remove selected areas of the building roofing materials and replace with new roofing materials as shown on contract Drawing A2 of 2. The contractor shall be responsible to replace the existing parapet wall flashing with new materials and cut new flashing materials into the existing roofing membrane at areas affected by the masonry parapet wall removal and reconstruction with new masonry materials as described in Base Bid No. 1.

END OF SECTION

SECTION 01040
BEHAVIOR AND SECURITY REQUIREMENTS
AT DEPARTMENT OF PUBLIC WELFARE FACILITIES

PART 1 – GENERAL

1.1 STIPULATIONS

- A. The "General Terms and Conditions for Construction Projects" form a part of these specifications by reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 DESCRIPTION

A. Personal Behavior:

1. The contractor shall make himself familiar with all operational and security procedure requirements of the Commonwealth Facility and potential penalties for violating them and disseminate such information to all of his employees while working at the project site.
2. If required, identification badges will be provided by the Facility and shall be worn by the contractor's personnel at all times while on the Facility grounds.
3. Smoking is not permitted in any Facility building.
4. There shall be no fraternization or private relationships of contractor's employees with any of the Facility residents. This includes, but is not limited to, trading, bartering, receiving gifts or money favors from the resident or the resident's friends, relatives or representatives.
5. Alcoholic beverages and controlled substances shall not be brought onto, consumed or left stored on Facility property.
6. Gambling or wagering of any type is not permitted on Facility property.
7. Any person entering the Facility is subject to a search of their person at any time. While the person may refuse, his action may be cause for denial of further entrance.

B. Work Area:

1. All work areas shall be kept in an orderly and safe condition at all times.
2. All doors shall be kept secured as required by the Facility's security procedures to ensure resident safety. Doors left normally unlocked shall be excluded unless safety becomes an issue.

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3. Flammable liquids shall not be stored inside occupied buildings.
4. Life Safety Code regulations are enforced at all times, including during all construction activities, within a resident-occupied building on Facility property. The contractor and his employees shall cooperate with the Facility's Safety Manager to implement temporary alternate Life Safety Code measures within the work area as may be required.
5. Facility supplies and equipment shall not be used by the contractor in the performance of his work unless specifically called for in the contract documents or written permission is given by the Facility.
6. The contractor shall make himself and his employees aware of the location of fire alarms, fire extinguishers and related fire safety equipment within or adjacent to the work area. If requested by the contractor, the Facility's Fire Marshal will instruct the contractor and his employees on the proper operation of such fire safety equipment.

C. Hours of work:

1. All construction operations within the Facility must be coordinated with the Facility Maintenance Manager.
2. Regular hours for work at the Facility are from 7:30 AM to 4:00 PM, Monday through Friday.

D. Tools:

1. Tools shall be kept in a secure (locked) area, when not in use and inventoried on a daily basis to insure continual accountability. While being used, tools shall at all times be kept on the person or in full view of the using person. Broken or non-usable tools are to be disposed of away from the Facility property. Any missing tools are to be reported promptly to the project construction manager.
2. No ladders shall be left upright and accessible to Facility residents as well as all unauthorized persons. When not in use, ladders shall be taken down and securely stored.
3. Scaffolding that remains in place after working hours shall be secured in a manner to prevent access by Facility residents as well as all unauthorized persons.

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E. Vehicles:

1. The Facility shall designate specific area(s) for the contractor to park his construction and employee vehicles and equipment. Unattended vehicles shall be locked at all times.
2. The contractor shall report to the Facility's security office the license numbers of all vehicles that will remain on Facility grounds after working hours and overnight.
3. Vehicles shall not be operated or parked on any lawn areas unless otherwise permitted by the Facility for the performance of the work.

F. Weapons or Implements for Escape:

1. Weapons or implements for escape (other than contractor tools used in the performance of the work) shall not be permitted on Facility property. A person who unlawfully breaks this policy may be subject to criminal charges.
2. Definitions:
 - a. As used in this section, the word "unlawfully" means surreptitiously or contrary to law, regulation or order of the governing authority.
 - b. As used in this section, the word "weapon" means any implement readily capable of lethal use and shall include any firearm, knife, dagger, razor, other cutting or stabbing implement or club including any item which has been modified or adapted so that it can be used as a firearm, knife, dagger, razor or other cutting or stabbing implement or club. The word "firearm" includes any unloaded firearm and the unassembled components of a firearm.

END OF SECTION

SECTION 01310
SEQUENCE OF CONSTRUCTION AND MILESTONES

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Terms and Conditions for Construction Projects" form a part of these specifications by reference thereto and shall have the same force and effect as if printed herewith in full.
- B. After receiving the Notice to Proceed and in advance of beginning the work, the contractor, in consultation with the construction manager for the project, shall prepare a construction schedule with start dates and end dates for major components of the work. The work shall then be carried out in full accordance with the schedule and milestones.

1.2 CRITICAL MATERIALS AND EQUIPMENT

- A. The contractor is cautioned that all necessary and required critical materials and equipment shall be ordered as quickly as possible so that the shipping will not delay the progress of the work or ultimate completion of the project due to weather delays.

1.3 CRITICAL ITEMS TO BE NOTED AS MILESTONES

- A. The contractor shall schedule the following items as project milestones with the projected completion dates. These dates shall be the basis of payments to the contractor.
 - 1. 60% of the project work completed = 50% payment
 - 2. 100% of the project work completed (including punch list items) = 100% payment
- B. Payment is subject to the provisions of the General Conditions and as approved by the Facility's representative.

END OF SECTION

SECTION 01340
SUBMITTALS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. Included in this section of the specification is a list of submittals of materials to be incorporated into the work required by the Department for approval.
- B. The Department reserves the right to require additional submittals for approval as it deems necessary.
- C. No material or equipment listed herein shall be incorporated into the work until the contractor has obtained approval from the Department.

1.2 SUBMITTAL PROCEDURES

- A. The project number shall be indicated on the transmittal letter of the material submitted for approval. Four copies minimum for each item submitted, one of which should be the original.
- B. The contractor shall signify his approval of the submitted material by stamping or initialing and dating the transmittal letter submitted to the Department for approval.
- C. The contractor's failure to comply with the submittal procedures set forth herein will result in the return of the material for proper re-submittal.
- D. The submittal items listed below shall be delivered or mailed to:

Department of Public Welfare
Division of Facilities and Property Management
1401 North 7th Street, P.O. Box 2675
Harrisburg, PA 17105-2675
Attention: Mr. James A. Makuch
(717) 772-8399

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1.3 SUBMITTAL LIST

- SOSU - Source of Supply
- SAMP - Samples
- DEDA - Descriptive Data or Catalog Cut
- TEST - Test Results
- SHDR - Shop Drawings
- CERT - For Certification (Warranty)

DESCRIPTION OF ITEMS TO BE SUBMITTED	SOSU	DEDA	SHDR	SAMP	TESTS	CERT
New Brick	X	X		X		
Masonry Mortars	X	X				
Masonry Wall Ties	X	X				
Masonry Flashing Materials	X	X				
Masonry Caulking, Sealant Materials	X	X				
Coping Stone Anchoring System	X	X	X			
Roofing Membrane Materials	X	X				X
Roofing Insulation Materials	X	X				X
Roofing Adhesives, Sealants	X	X				X
Roofing Flashing Materials	X	X				X

END OF SECTION

SECTION 02225
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Conditions for Construction Projects" form a part of this specification section by reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 WORK INCLUDED

- A. The work covered by this section consists of furnishing all labor, equipment and appliances necessary to selectively demolish and remove designated materials of the project building. Selective materials demolition and removal shall consist of:
1. Designated areas of brick parapet wall to include associated coping stones, anchoring devices and flashings.
 - a. Coping stone and anchoring devices are to be removed and saved for reinstallation in new masonry parapet wall construction as described in the construction documents.
 2. Designated areas of building brick veneer to include associated flashings and ties.
 - a. Removal of the brick veneer and parapet wall materials shall be accomplished in a manner that will not cause prolonged exposure of the building's interior structure to the weather. The contractor shall be responsible to provide protective measures as required to comply with the preceding statement.
 3. Roofing materials to include rigid insulation, membrane and flashing materials.
 - a. Roofing demolition work is a tear-off and replace with new roofing materials project. Remove not more of the existing roofing materials from the project roof area than can be replaced with new roofing materials within the work day.
- B. Before commencing the work of this section, the contractor shall develop a time schedule for performing the work of this section in a manner mutually acceptable to the Facility. See Section 01310 – Sequence of Construction and Milestones.

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1.3 SCHEDULING DEMOLITION

- A. All demolition removal work must be done at times agreed upon by the construction manager for the project or his representative.
- B. Once commenced, work shall proceed as scheduled in an efficient, quiet operation without delays or interruptions.

PART 2 - PRODUCTS

2.1 MATERIALS (RESERVED)

PART 3 - EXECUTION

3.1 PRECAUTIONS

- A. The project building will be occupied by hospital patients and staff during entire time of the contract work. Perform the work in a manner to prevent inconvenience or injury to hospital personnel and damage to hospital property.
- B. Provide barriers, warning lights and other protection as required and protect, as necessary, any existing monuments, benchmarks or utilities that are to remain in service. Restore any damage to original condition or repair as directed at no additional cost to the Commonwealth.
- C. Before starting the work, protect trees or shrubs with boxing or wire fencing staked securely in place or other approved means. Maintain until the completion of work or until removal may be directed by the Facility.
- D. Remove existing roofing carefully, as designated on drawings, in a manner designed to prevent undue airborne material from interfering with pedestrian safety and adjacent electrical service equipment. Protect adjacent construction and clean the same upon completion. Under no circumstances will debris of any type be left on the grounds at the end of each working day.

3.2 DUST CONTROL

- A. Control the amount of dust and dirt resulting from demolition to prevent the spread of dust and other airborne particles. Use wet method wherever dust is generated.

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3.3 PROHIBITIONS

- A. The use of burning or burial at the project site for disposal of refuse and debris is not permitted.
- B. All must be secured from access by Facility residents after hours by use of a tarp cover.

3.4 SALVAGE

- A. Unless otherwise directed by the Facility's representative, materials resulting from the demolition operation shall be the property of the contractor, shall not be used in the new work and shall be promptly removed from the site.

3.5 CLEAN-UP

- A. At completion of demolition of the roofing materials, remove all rubbish and debris and leave the site in a safe and clean condition.

END OF SECTION

SECTION 04100
MASONRY MORTARS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Conditions for Construction Projects" form a part of this section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 WORK INCLUDED

- A. The work covered by this section of the specifications consists in furnishing all labor, materials, equipment and appliances and in performing all operations in connection with the supplying of mortar required for masonry work specified under other sections of these specifications.

1.3 REFERENCES

- A. The following publications of the American Society for Testing and Materials form a part of this section of the specifications to the extent indicated by reference thereto:
1. C 150 Portland Cement
 2. C 91 Masonry Cement
 3. C 207 Hydrated Lime
 4. C 144 Sand (Aggregate for Masonry Mortars)
 5. C 270 Mortar for Unit Masonry
 6. C 190 Tensile Strength of Hydraulic Cement Mortars
 7. C 266 Method of Test for Time of Setting of Hydraulic Cement by Gilmore Needles

1.4 TESTS

- A. Customary production-plant testing of cementitious materials will be the responsibility of the contractor. Submit certified copies of plant tests to the Facility upon request.

1.5 HANDLING, STORING AND PROTECTING

- A. Deliver cementitious materials to job site in original unopened packages with manufacturer's name and brand thereon. Handle, store and protect all materials so as to prevent deterioration or intrusion of foreign matter. Do not use material which has deteriorated or which has been mixed with foreign matter. Bagged cement stored for more than six (6) months shall be rejected at the contractor's expense at the laboratory approved for the project who shall submit certified copies of tests to the Facility upon request.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portland Cement shall meet requirements of ASTM Designation C 150, Type I.
- B. White Portland Cement shall be non-staining white cement meeting requirements of ASTM Designation C 150, Type I.
- C. Non-staining Cement shall meet requirements of ASTM Designation C 150, Type I, with added requirement that it shall not contain more than .030 percent by weight of soluble alkali calculated as Na₂O.
- D. Masonry Cement shall meet the requirements of ASTM Designation C 91, Type II.
- E. Gypsum Cement shall be neat gypsum plaster retarded for four (4) hour set.
- F. Hydrated Lime shall meet requirements of ASTM Designation C 207, Type S.
- G. Sand shall meet requirements of ASTM Designation C 144, except that for grout and pointing mortar; 100% shall pass No. 30 sieve and not more than 15% shall pass No. 100 sieve and shall be uniformly graded. Where specified, sand shall be white.
- H. Water shall be potable and free from injurious amounts of oil soluble salts, alkali, acids, organic impurities and other deleterious material.
- I. Waterproofing Admixture shall be an approved brand. In lieu of waterproofing admixture, contractor has option of using an approved brand of cement which has been waterproofed at mill.
- J. Admixtures shall not be used without the approval of the Facility.
- K. Anti-freeze compounds shall not be used.

2.2 MORTAR

- A. Mortars are referred to by type in other sections of this specification. Mortar shall be mixed in the proportions set forth in Table I below. Where more than one (1) proportion is specified under a type designation in Table I, the contractor has the option of using either proportion under that type; however, only one (1) proportion shall be used for a particular type mortar throughout the work. In lieu of mortar mixed in the proportions set forth in Table I, mortar will be accepted if certified data are presented showing that the mortar meets the requirements for minimum compressive strength tests of mortar mixed in the same proportions as are to be used in the work and tested in accordance with the requirements set forth in ASTM Designation C 91.

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B. Mortar shall match existing mortar for color and texture as reasonably possible within the specified conditions stated herein.

2.3 MEASURING AND MIXING

Mortar Type	Portland Cement	Masonry Cement	Lime Putty or Hydrated Lime	Maximum Damp Loose Sand	Minimum Compressive Strength*
M	1		1/4	3	2500
S	1		1/2	4	1800
S	1/2	1		4	1800
N	1		1 1/4	6 3/4	750
N		1		2 3/4	750

*Measured in pounds per square inch.

- A. Non-staining Mortar shall be Class N except that non-staining cement shall be used in lieu of Portland Cement.
- B. Quantities of materials in Table I above are in parts by volume. If materials are to be measured by weight, use Table II to determine quantities:

Materials	Pounds per Cu. Ft.
Portland Cement	94
Masonry Cement	Weight printed on bag
Hydrated Lime	40
Sand, Damp	85

- C. Measuring and mixing of mortar shall meet requirements of ASTM Designation C 270 except as otherwise specified herein. Measure all materials accurately. Use automatic measuring devices that will consistently maintain specified proportions within a + tolerance of not more than 5%.
- D. Except as otherwise approved for small batches, mix mortar in mechanically operated drum-type batch mixers in which water can be accurately and uniformly controlled. Mix all dry ingredients for at least two (2) minutes then add water and mix for at least three (3) additional minutes. Do not permit volume of mixed material per batch to exceed manufacturer's rated capacity of mixer. Empty mixer completely after each batch. Keep mixer and all other equipment clean.

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- E. Mortar shall have a flow after suction (water retention) of at least 75% of that immediately after mixing.
- F. Add water to hydrated lime at least twenty-four (24) hours before mixing with other materials.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Use mortar as soon as possible after mixing at air temperatures in excess of 80°F. Use mortar within two and one-half (2 ½) hours after introduction of water to mix; at lower temperatures this time may be increased to three and one-half (3 ½). Discard all mortar that has stiffened within time limits noted above. Due to evaporation of moisture from mortar, may be retempered to restore workability by adding water as frequently as needed. As must, water may be added as practicable without impairing workability of mortar.
- B. When cements used in mortar have been tested and the observed time of initial set as determined under ASTM Designation C 266 has been ascertained, an optional method of determining time limits for use of mortar may be used as follows:

TABLE III – TIME LIMIT FOR USE OF MORTAR	
Air Temperature in Degrees (°F)	Time Limit for Use After Mixing
80°F or higher	Time of initial set of cement minus 1hr.
Less than 80°F	Time of initial set of cement minus ¼ hr.

- C. The time limit for use of mortar containing both Portland and Masonry Cements shall be determined as above by the cement with the shortest observed time of initial set.
- D. Pointing Mortar shall consist of one (1) cubic foot non-sustaining cement and two (2) cubic feet damp loose sand with only sufficient hydrated lime to make as stiff a mixture as can be worked. Where specified on other sections of this specification, sand shall be white.
- E. Mortar Grout shall consist of equal parts Portland Cement and sand with addition of sufficient water to produce proper consistency.
- F. Neat Grout shall consist of Portland Cement and water and shall be of pouring consistency.

END OF SECTION

SECTION 04225
BRICK CONSTRUCTION

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Conditions for Construction Projects" form a part of this Section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 WORK INCLUDED

- A. The work of this section includes the furnishing of all labor, materials, scaffolding, equipment and incidentals to complete all brick veneer and parapet wall construction as indicated on the drawings and as specified herein:
1. Face brickwork.
 2. Masonry parapet wall work to include reinstallation of existing precast concrete coping.
 3. Building in flashings, expansion joints and other items required.
 4. Ties of face brick to existing back-up material and new masonry parapet wall material.
 5. Control joints and joint and tie reinforcing.
 6. Cutting and patching of work in this division as required to accommodate work.

1.3 REFERENCES

- A. The following publications of the American Society of Testing and Materials form a part of this section of the specifications to the extent indicated by reference thereto:
1. C 67 Sampling and Testing Brick
 2. C 73 Sand-Lime Brick
 3. C 216 Face Brick
 4. C-129 Hollow Non-Load Bearing Concrete Masonry Units

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1.4 SAMPLES

A. Submit the following samples:

1. Face brick in sufficient quantity to show complete range of color.
2. Mortar
3. Ties

1.5 TESTS

A. Customary production-plant testing of materials specified herein will be the responsibility of the contractor. Submit certified copies of plant tests conforming with the referenced standards for materials used in the work to the Facility's representative upon request.

1.6 SAMPLE PANELS, BRICK

- A. No separate sample panel shall be required. The contractor shall give sufficient notice to the Facility and Project Designer when masonry work is to begin. The contractor shall install approximately 6 lineal feet of the new masonry work to show quality and full color range of the brick, bonding, type and color of mortar joints, pointing and general workmanship for approval by the Facility and Project Designer.
- B. Make changes in jointing, mortar, installation techniques and workmanship required by the Facility and/or the Project Designer before continuing on with the new masonry work. Finished work shall match approved area as to bonding, jointing, mortar and general workmanship.

1.7 STORAGE OF MASONRY MATERIALS

A. Handle all masonry units at all times in a manner to prevent spalling, shipping and other damage. Protect all face brick with straw during transportation and storage on the job site. Upon delivery to the site, brick shall be immediately stored free of the ground and protected from the weather by tarpaulins or other suitable and approved means.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Face brick shall conform to ASTM Designation C 216, Grade SW, Type FBS. Face brick shall match existing face brick on project building. Final selection shall be approved by the Facility representative and Project Designer. Face brick shall be cored not to exceed 25%. When brick are laid over lintels or in projecting or recessed courses or in other locations where the bed will be partially exposed, no holes will be permitted to show.
- B. Face brick size shall match existing face brick material. Bond pattern shall match existing building brick veneer pattern.
- C. Concrete masonry units shall be of modular dimensions where available and shall include all shapes and sizes required to complete work as shown. Units shall be of same manufacturer, composition, size and appearance and shall be cured by same process throughout the job. Units shall be sound and free from cracks, chipped edges and other defects that would interfere with their proper setting or impair strength, appearance or durability of construction. Units shall be free of any deleterious matter that will stain plaster or corrode metal; shall be adequately cured before shipment; shall be delivered to job site conforming to physical requirements as determined by tests hereinafter specified and shall be classified into Grade A or B as stipulated.
- D. Wire ties shall be of steel wire not lighter than 0.1483 inch in nominal diameter (9 gauge) looped on both ends.

2.2 MORTAR

- A. Mortar shall comply with the requirements of the section of the specifications covering "Masonry Mortars", Section 04100.
- B. Type N mortar shall be used for all work.

PART 3 - EXECUTION

3.1 WORKMANSHIP

- A. Lay all masonry facing from side of wall on which facing occurs, erect and maintain scaffolding as necessary to meet this requirement.
- B. Masonry shall not be erected when, in the opinion of the Facility, atmospheric conditions or limited facilities of the contractor prevent proper setting, bonding and curing of masonry. Units may be damp when laid but no unit having a film of water or frost shall be laid.

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- C. In dry weather, but not when subject to frost, clay brick having an initial rate of absorption in excess of 0.7 ounce per minute shall be drenched with water and allowed to drain but not to dry completely before laying.
- D. Protection: Surfaces of masonry not being worked on shall be properly protected at all times during construction operations. At such time as rain or snow is imminent and work is discontinued, cover tops of exposed masonry walls with a strong waterproof membrane secured in place. This requirement will be rigidly enforced so that moisture from rain or snow will not enter the wall.
- E. Unfinished work shall be stepped back for joining with new work; toothing may be resorted to only when specifically approved. Before new work is started, remove all loose mortar and thoroughly clean the exposed joint before laying new work.

3.2 COLD WEATHER INSTALLATION

- A. Masonry shall not be erected when the ambient temperature is below 35 degrees Fahrenheit or when there is a probability of such temperature occurring within forty-eight (48) hours unless such work is authorized by the Facility and special protective measures are taken as follows.
- B. When the temperature is between 32 degrees Fahrenheit and 35 degrees Fahrenheit, keep all masonry units completely covered and free from ice and snow at all times. Heat mixing water or sand to not more than 160 degrees Fahrenheit nor less than 70 degrees Fahrenheit. Maintain air temperature on both sides of masonry above 40 degrees Fahrenheit for at least seventy-two (72) hours after erection. Submit for approval proposed methods for protecting masonry against low temperatures. Do not build on frozen work.
- C. When the temperature is between 25 degrees Fahrenheit and 32 degrees Fahrenheit, in addition to requirements above, heat mixing water and sand.
- D. When the temperature is between 18 degrees Fahrenheit and 25 degrees Fahrenheit, in addition to all requirements above, add calcium chloride to mixing water at rate not exceeding 1½ to 2 pounds per sack of Portland Cement. Do not add calcium chloride to masonry cement mortar unless specifically recommended in writing by manufacturer of the masonry cement.
- E. When the temperature is between 0 degrees Fahrenheit and 18 degrees Fahrenheit, in addition to all requirements above, heat hollow masonry units to at least 40 degrees Fahrenheit immediately before laying.
- F. When the temperature is 0 degrees Fahrenheit or below, erect masonry only in emergency construction. In addition to all of the requirements above, heat solid masonry units to at least 40 degrees Fahrenheit immediately before laying. Provide complete temporary enclosure for masonry construction during sustained sub-zero weather

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3.3 LAYING BRICK

- A. Each brick shall be laid in a full level bed of mortar, not furrowed. Trowel ends of stretcher brick full of mortar and shove into place. Lay recessed brick with frog side down. Fill all joints and interstices in masonry and joints next to other materials.
- B. Bond: Shall match existing brick bond pattern as indicated on the drawings.
- C. The bond of brick facing shall be laid out and adjusted to each wall space so that no course shall finish at an external corner or at a jamb with a piece less than $3\frac{3}{4}$ inches long. Bond of each horizontal course at the jambs of each opening shall be symmetrical.
- D. Where closers are required to maintain bond above, below or between openings, they shall be place symmetrically to center lines of openings as directed.
- E. Brick shall be anchored or tied to backing construction in compliance with applicable building codes. Space ties not over twenty-four (24) inches on centers horizontally and approximately sixteen (16) inches vertically. Ties shall extend not less than $3\frac{1}{2}$ inches into the backing and to within $\frac{1}{2}$ inch of exposed surface of facing joint. This shall extend through joints of two (2) inches thick rigid wall insulation.
- F. Joints: Finish joints in exterior brick facing to match brick joint of existing brick veneer as reasonably possible. In lieu of a clear and definitive existing joint type, finish joints with a concave jointer to compact mortar into joints, force it tight against brick, and close all hair cracks and crevices. Finish joints as soon as possible after mortar has attained its initial set. Do not use "cut-off" joints in exterior brick facing.
- G. Joints in brick facing shall be $\frac{3}{8}$ inch wide unless otherwise shown on drawings or otherwise required to suit existing coursing. Variations in width of vertical joints shall be inconspicuous and made only as necessary to obtain the bond.
- H. Control Joints: Where noted on drawings, rake out mortar in control joints to depth of $\frac{3}{4}$ " ready to receive primer and caulking.
- I. Expansion Joints: Where noted on drawings shall be constructed as shown in the contract drawing details to receive expansion material, backing and caulking.

3.4 BRICK VENEER WALL CONSTRUCTION

- A. Facing shall be completely separated by a continuous air space of a width to match condition of existing brick veneer and back-up materials. Brick veneer shall be securely bonded to the existing back-up masonry material by wall ties previously specified in this section.

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3.5 PARAPET WALL CONSTRUCTION

- A. The parapet wall shall be solid masonry construction of the width shown on the contract drawings.

3.6 WEEP HOLES

- A. Provide weep holes as required.

3.7 EFFLORESCENCE TESTS

- A. Brick, mortar and mortar materials proposed for use on the exterior facing of exterior walls shall be free from efflorescence. The contractor shall provide test certificates verifying that materials used in the work were sampled and tested to assure compliance with this stipulation.
- B. Water use in mortar shall be subjected to chemical analysis, upon request by the Facility, to determine the content of soluble salts which could contribute to efflorescence.

3.8 PREMOLDED JOINT FILLER

- A. Premolded fillers for control joints in masonry walls shall be manufactured from virgin polyvinyl chloride plastic compound and shall not contain any scraps or reclaimed material. Filler shall be designed for use with standard sash block to provide a shear key in the joint and an effective water stop. Installation shall be as detailed on the drawings.

3.9 POINTING AND CLEANING

- A. At completion of work, fill all holes in joints of exposed exterior masonry surfaces with mortar and tool suitably. After pointing has hardened, wet all exposed clay brick masonry surfaces. Then clean with solution of ten (10) percent by volume of commercial muriatic acid applied with stiff fiber brushes. Immediately after cleaning, rinse thoroughly with clear water. Leave clean, free of mortar daubs and with tight mortar joints throughout. When cleaning masonry, protect all other work against damage or disfigurement.

END OF SECTION

SECTION 07225
ROOF INSULATION

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Conditions for Construction Projects" form a part of this Section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 DESCRIPTION OF WORK

- A. The work covered by this section consists of furnishing all labor, materials, equipment and appliances necessary to complete the installation of roof insulation in strict accordance with this section of the specifications and drawings including manufacturer's directions.
1. Rigid board roof insulation systems.
 2. Tapered drainage crickets installed between existing roof drains.
 3. Tapered fiberboard edge strips.

1.3 QUALITY ASSURANCE

- A. Make all material submissions in accordance with Section 01340, Submittals.
- B. Submit manufacturer's specifications and installation instructions as specified in Section 01340.
- C. No deviation or changes will be accepted to this specification, without written approval of the manufacturer, after all submissions are approved.
- D. Submit manufacturer's shop drawings for approval. Shop drawings shall show layout of insulation boards and the tapered drainage crickets. Only insulation manufacturer's shop drawings will be acceptable.

1.4 QUALITY ASSURANCE

- A. Before commencing work, the contractor shall have submitted all descriptive data and shall have received approval from the Department.
- B. The contractor shall have inspected the job site prior to bidding. Refer to Section 01010 for names and telephone numbers of people to contact for inspection of site.

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1.5 PRECAUTIONS

A. Delivery and Storage of Material:

1. Delivered insulation shall have original manufacturer's labels intact and legible. Also packages shall not be broken or otherwise damaged.
2. Roof insulation must be kept dry at all times before and after installation. Stored insulation shall be kept in a dry place. Insulation stored outside must be stored with a minimum of 4" clear of ground on wood pallets or suitable dunnage and completely covered with waterproof covering securely fastened. Factory installed plastic wrapping shall not be used as outside storage covers.

B. Job Conditions:

1. Roof surface shall be free of ponding water, snow or ice.
2. Install no more insulation in one (1) day than can be covered the same day with a completed roofing membrane.
3. Do not expose insulation to excessive heat, sparks or open flame.
4. For fully adhered single ply membranes, completed areas should not be subjected to repeated foot or equipment traffic. Protection should be provided for all storage and traffic areas.
5. The surface of the insulation must not be ruptured by mechanical fasteners.
6. All insulation joints shall be staggered.
7. Only membrane manufacturer approved insulation boards shall be used. Contact the membrane roof manufacturer representative for current list of approved insulations.
8. Insulation shall be neatly fitted to all roof penetrations, projections and nailers. Tapered or feathered insulation shall be installed around roof drains in such a way as to provide proper slope for run-off.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Materials herein specified are intended to be compatible for use with the installed roofing membrane materials and warranted as a roofing system by the roofing membrane manufacturer. The insulation shall be as manufactured by a company whose material is acceptable to the manufacturer of the roofing membrane. A letter of certification of compatibility and acceptance shall be submitted to the Project Designer by the manufacturer of the roofing membrane as part of the required submissions required in Section 01340.

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- B. Furnish and install a rigid board roof insulation system in strict accordance with drawings and specifications and as acceptable by the roofing membrane manufacturer.

2.2 DESCRIPTION

- A. The flat roof insulation board shall consist of a closed-cell Polyisoanurate foam core laminated to a coated fiberglass facer on both major surfaces. Product shall contain no CFCs, HCFCs using, HFC-free foam blowing technology, is zero ODP, EPA compliant and has virtually no (negligible) GWP.
- B. Maximum thickness of the insulation board shall be 2". Install insulation board in multiple layers to achieve greater specified insulation thicknesses. Install multiple layers as recommended by the insulation board manufacturer and as accepted by the roofing membrane manufacture.
- C. The roof insulation board shall meet the following minimum standards:
 - 1. ASTM C 1289 Type II, Grade 3
 - 2. IBC (PA UCC Edition) Chapter 26
 - 3. UL Classified
 - 4. FM Class 1, Approved
 - 5. Manufactured in an ISO 9002 Facility
- D. Physical Property Data, Minimum Requirements

1. Compressive strength –	25 PSI (minimum)	ASTM D1621
2. Dimensional Stability -	<2% Linear Change	ASTM D 2126
3. Water Absorption -	<1%, by volume	ASTM C 209
4. Moisture Vapor Trans. -	< 1 perm	ASTM E 96
5. Service Temperature -	-100 to 250 Degrees Fahrenheit	
- E. The Insulation System
 - 1. The insulation board shall be installed on the existing, prepared concrete roof deck in a manner accepted by the roofing membrane manufacturer for installation of the adhered single ply roofing membrane.
 - 2. Install insulation using an adhesive approved of by the roofing membrane manufacturer.
- F. The drainage crickets shall be manufactured from the same material as the flat and tapered insulation systems.
- G. Cant Strip and Tapered Edge Strip: Standard machine cut fiberboard strips in sizes to suit the details as indicated on the project drawings.

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2.3 RELATED MATERIALS (AS REQUIRED)

- A. Primer: Asphalt primer, cutback solvent type conforming to ASTM D 41.
- B. Steep Asphalt: Roofing asphalt conforming to ASTM D 312, Type III. Provide label on each container indicating flash point, finished blowing temperature, softening point and equiviscous temperature.
- C. Insulation Adhesive: Cold applied foam or roll-on type as approved by the roofing membrane manufacturer.

PART 3 - EXECUTION

3.1 SUBSTRATE CONDITION

- A. Contractor shall be responsible for providing proper substrate to receive the insulation and roofing membrane systems. The work of this section involves the tear-off of existing roofing materials and the installation of new roofing materials specified herein.
- B. Contractor shall verify that work done under other sections meets the following:
 - 1. Existing roof drain assemblies have been inspected for damage or deteriorated parts and have been properly repaired or prepared to accept installation of new materials specified herein.
 - 2. Existing roof curbs, nailers, equipment supports, vents and other items penetrating the roof are properly attached to substrate and are otherwise properly prepared.
 - 3. Existing concrete and masonry surfaces are properly cleaned and prepared to receive new work.

3.2 INSULATION APPLICATION

- A. Adhered single ply roofing systems with insulation fully adhered to cementitious decks.
 - 1. Install insulation in strict accordance with manufacturer's written recommendations and approved shop drawings.
 - 2. Position the insulation boards directly over the deck (if applicable) and butt snugly.
 - 3. Fully Adhered Single Ply Roofing System:
 - a. Secure boards to a clean and dry, properly primed roof deck in a full mopping of Type III asphalt applied at the rate of 33 lbs/100 sq.ft. at the correct EVT or per the manufacturer's specifications.

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- b. For Multi-Layer Systems: Set subsequent insulation boards in a full mopping of Type III asphalt applied at the rate of 25 lbs/100 sq.ft. at the correct EVT or per the manufacturer's specifications.
4. Where more than one (1) layer of insulation is installed, stagger joints of succeeding layers from first layer a minimum of 12" in each direction.
5. Cut all flat insulation to fit where it meets vertical surfaces or as otherwise required by job conditions.
6. Install the roofing system per the manufacturer's latest specifications. No work shall be performed by other trades over an installed roof membrane until temporary protection has been provided.

END OF SECTION

SECTION 07530
TPO ROOFING MEMBRANE

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The "General Conditions for Construction Projects" form a part of this section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 DESCRIPTION OF WORK

- A. Furnish and install a single ply flexible sheet membrane roofing system as shown on the drawings over new insulation applied to an existing roof deck as specified herein.
1. Type of roof system: Fully Adhered Roof Membrane.
 2. Type of Material: Thermoplastic Olefin (TPO)

1.3 RELATED WORK

- A. Related work included in this section:
1. Parapet Flashing
- B. Related work specified elsewhere:
1. Insulation – Section 07225

1.4 REFERENCES

- A. Factory Mutual Engineering and Research Corporation (FM) – FM Approval Guide, Loss Prevention Data Sheets including 1-28, 1-29, 1-49 and other applicable data sheets.
- B. Warnock Hershey International.
- C. Single Ply Roofing Institute (SPRI).
- D. Underwriters Laboratories, Inc. (UL) – Fire Hazard Classifications.

1.5 SUBMITTALS

- A. Make all material submissions in accordance with Section 01340, Submittals, as noted herein.
- B. Manufacturer's approved shop drawings showing roofing configuration, sheet layout, details of application and the proposed method of Night Seal shall be similarly submitted and approved prior to the start of work.

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- C. Submit pull-out test data and membrane manufacturer's recommended fastener type and fastening pattern for insulation attachment as required.
- D. No substitutions, deviations or changes from approved submissions and this specification will be accepted without prior written approval of the manufacturer and the Department.

1.6 QUALITY ASSURANCE

- A. Membrane shall be supplied by a manufacturer having a minimum of five (5) years' experience in the production of membrane, having properties as further defined in these specifications.
- B. The applicator of the roofing system shall have a minimum of five (5) years' experience in the application of heat weld seaming and shall be currently certified by the manufacturer of the membrane system.
- C. All TPO roofing materials shall be factory certified, first run material; seconds will not be permitted. Material and packaging to bear the UL label on roll.
- D. Performance requirements:
 - 1. Wind Uplift: FM Class 1-90.
 - 2. Fire Resistance: FM Class IA, UL Class A.
- E. Inspections shall be made by a representative of the roofing membrane manufacturer during the work and at its completion to verify that the roofing system was installed in accordance with manufacturer's specifications and illustrated details. Upon approval of the project, a warranty shall be written and issued.
- F. All bidders shall inspect job site prior to bidding. Refer to Section 01010 for names and phone number(s) of people to contact for inspection visit.

1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original unopened packaging and/or containers labeled with manufacturer's name, brand name, installation instructions, storage conditions and lot numbers.
- B. Store curable materials (uncured flashing, accessories, adhesives and sealants) between 60°F and 80°F in a cool dry protected area. If exposed to temperatures below 60°F, restore to proper temperature before using.
- C. Damaged materials shall be replaced at contractor's expense.
- D. The membrane shall be delivered to the site in rolls of the greatest practical dimension.

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- E. All materials shall be stored on the ground below the work area on a covered pallet 4" above the ground or another approved storage area. Only the amount of material which can be installed that day shall be moved to the roof.
- F. Do not store adhesive containers with opened lids due to the loss of solvent which will occur from flash off.

1.8 JOB CONDITIONS/PRECAUTIONS

- A. DO NOT proceed with installation of any components of the roofing system unless the materials, equipment and tradesmen required are at the site, meet all requirements of these specifications, and are prepared to follow the sequence of installation without interruption. Avoid unnecessary traffic over completed sections of the roof.
- B. Only the amount of roofing shall be removed from the deck in one (1) day that can be covered with new roofing by the end of the same working day. No substrate nor insulation shall be left uncovered overnight.
- C. Apply a Night Seal at the conclusion of each interrupted session either at the end of a working day or any other prolonged cessation of work. The Night Seal method shall be approved by the Department prior to the start of work or this contract.
- D. Roof surface shall be free of ponded water, ice or snow to eliminate future condensation problems.
- E. Do not expose TPO membrane and accessories to a constant temperature in excess of 180°F. Provide insulated jackets around hot pipes or similar roof penetrations.
- F. Cements, caulking and bonding adhesives are extremely flammable and/or toxic. Do not breathe vapors or use near fire. Follow precautions indicated on containers and labels.
- G. Do not overdrive mechanical fasteners. Use depth sensing screw gun.

1.9 CONTRACTOR'S WARRANTY

Contractor's Responsibility: The contractor shall take or cause to have taken any and all corrective measures necessary to keep the roofing system free of all defects to the satisfaction of the Department and to maintain the roofing system in a watertight condition. Contractor shall have the responsibility for said corrective measures for two (2) years after the date of final inspection. The contractor is responsible for the removal and replacement of the roofing system if, in the judgment of the Department, removal and replacement is necessary to keep the roofing system free of all defects or to maintain the roofing system in a watertight condition. The contractor shall also repair or remove and replace if the Department deems it to be necessary or any part of the building, including

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the interior, is damaged as a result of leaks in the roofing system. The interior of the building includes, but is not limited to, furnishings and fixtures. There shall be no limit to the contractor's liability for fulfilling the aforementioned responsibilities.

- H. Exclusions: The contractor shall not be responsible for repairs to or replacement of the roofing system if repairs or replacement is necessary due to a natural disaster such as lightning, flood, tornado or earthquake.
- I. Notification: The Department will notify the contractor as soon as reasonably possible after it has knowledge of defects in the roofing system. Should the contractor fail to promptly take corrective measures, the Department may undertake corrective measures. The contractor shall be responsible for any and all expenses incurred by the Department in undertaking corrective measures. In addition, the Department's undertaking of corrective measures shall in no way relieve the contractor of any of the aforementioned responsibilities.

1.10 MANUFACTURER'S WARRANTY

- A. The contractor shall provide the Commonwealth with a twenty (20) year warranty, furnished by the manufacturer which shall warrant that said manufacturer will repair any leaks in the roofing system, not to exceed the original cost of the installed roof over the life of the warranty, installed by an applicator authorized by said manufacturer.
- B. Leaks from the following causes shall be covered by the warranty:
 - 1. Defects in the roofing system material.
 - 2. Workmanship of the authorized applicator.
- C. Following exclusions are permitted in the warranty:
 - 1. Natural disasters such as lightning, hail, floods, tornadoes or earthquakes.
 - 2. Damage from traffic or storage of material on roof.
 - 3. Structural failure of roof deck, parapet or coping.
 - 4. Infiltration of moisture in, through or around walls, coping or building structure.
 - 5. Movement or deterioration of metal counter flashing or other metal components adjacent to roof.
 - 6. Damage to the building (other than roofing and insulation) or its components adjacent to roof.
- D. The warranty shall provide that, in the event a leak should occur within the warranty period and if such leak is within the coverage of the warranty, the warrantor will, at no expense to the owner, make or have made all necessary repairs to put the roof membrane, base flashing and roof insulation in a dry and watertight condition, using the same materials and specifications as original application. There will be no limit to the warrantor's liability for making such repairs over the period of the warranty.

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- E. The warranty shall provide that if, upon proper notification, the warrantor fails to promptly repair the roof, the owner may make temporary repairs to avoid damage to the Facility. Such action shall not be considered a breach of the provisions of the warranty.
- F. The owner shall be permitted to make alterations, additions and repairs to the roof within the written approval guidelines of the warrantor without jeopardizing the unexpired portion of the warranty's original term.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Provide materials recognized to be of type indicated below or approved equal and tested to show compliance with the physical properties and/or performances specified herein.
- B. Materials shall be compatible, in every way, with all other components of the roofing system. Substitutions will not be permitted after approved descriptive data and/or shop drawings have been acted upon and distributed.

2.2 MEMBRANE

- A. Type: TPO (Thermoplastic Olefin) – Cured.
- B. Thickness: .060 minimum reinforced.
- C. Color: White.
- D. Width: Manufacturer's standard maximum for specified application.
- E. Physical Properties: Typical values to meet or exceed the following:
 - 1. Breaking Strength: ASTM D 751, 310 lb.ft.
 - 2. Tear Strength: ASTM D 751, 100 lb/ft.
 - 3. Shore A Hardness: ASTM D 2240, 82.
 - 4. Dimensional Stability: ASTM D 1204, 0.3%.
 - 5. Hydrostatic Resistance: ASTM D 751, 425 psi.
 - 6. Ozone Resistance: ASTM D 1149, Pass.
 - 7. Weather Resistance: ASTM G 90, Pass 3 million langleys.
 - 8. Puncture Resistance: FTM 101B, 350 lb/ft.
 - 9. Vapor Transmission: ASTM E 96, 0.035 perms.
 - 10. Ultimate Elongation: ASTM D 412, 700%.
 - 11. Brittleness: ASTM 2137, Pass.
 - 12. Water Absorption: ASTM D 471, 2%.
 - 13. Heat Aging: ASTM D 573, 275 lb/ft.

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2.3 ACCESSORY MATERIALS

- A. Adhesives: Supplied by the same manufacturer as the membrane and formulated for use with TPO membrane. Each container shall have the shelf life date marked on a label.
- B. Flashing provided by membrane manufacturer:
 - 1. Same material, color and thickness as roof membrane for all curbs, walls and penetration.
 - 2. Use prefabricated pipe moldings, sealant pockets where practical and feasible.
- C. Miscellaneous Materials: Molded pipe flashings, multi-purpose caulking, lap splice cleaner, seam sealant, water cut-off mastic, pourable sealer and like materials compatible with all components of the roofing system to be supplied by the membrane manufacturer.
- D. Mechanical Fasteners and Plates: Use factory mutual approved corrosion-resistant fasteners and plates approved by roofing membrane manufacturer for the insulation application and substrate condition as established by pull-out tests.
- E. Traffic Pads: Traffic pads shall be rubber material as approved by the membrane manufacturer. Provide 2' x 6' x 1/2" thick rubber walk pads fully adhered to roof membrane. See drawings for locations.
- F. Slip Sheet: For use directly over lightweight (insulating) concrete substrate and other substrates as recommended and approved by roofing membrane manufacturer. Follow manufacturer's instructions for attachment.
- G. Vapor Barrier: For use over high humidity interiors, when outside January temperatures below 40°F and interior winter relative humidity is greater than 45%; follow roofing membrane manufacturer's recommendations, FM/UL rated acceptable for use with specified insulation.
- H. Insulation: See Section 07225.

2.4 WOOD NAILERS

- A. Lumber: Provide dressed lumber (sized as detailed) construction, standard or utility Grade No. 2 or better, treated for water and rot resistance with 19% maximum moisture content after treatment.
- B. Do not use creosote, penta chlorophenol, copper naphthenate or copper 8 – quinolinolate based preservatives.
- C. Follow wood preserver's precautions regarding cutting and handling treated lumber.
- D. Treat all cut edges.

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- E. Plywood (As Required): Standard sizes – Rated for exterior use subject to high or continuous moisture; APA rated: C-D grade. Exposure 1 minimum.
- F. Nailer Fasteners/Anchors: Galvanized (ASTM A 153) for use with treated wood. Sized and spaced as recommended by membrane manufacturer. Nails are not acceptable.

2.5 DRAINS

- A. Prior to commencing work, the contractor shall inspect and insure all roof drains and drain lines are open, flowing freely and free of clogs or obstructions. Before the time of the substantial completion inspection, all roof drains and lines shall be inspected again to insure they are still unclogged and flowing freely. Water shall be provided by the Department but hoses shall be provided by the contractor.
- B. At the conclusion of the project, if any drain not previously noted is found to be plugged, the contractor shall take corrective action at his own cost and expense.

PART 3 - EXECUTION

3.1 SUBSTRATE PREPARATION

- A. Contractor is responsible for suitable substrate, correcting and repairing any damage and/or defects to the existing substrate prior to installation of the new insulation and roofing membrane.
- B. Provide a dry, smooth substrate, free of debris, sharp/protruding edges, uneven joints and gaps, and other surface irregularities.
- C. Remove all damp, deteriorated, wet or saturated material.

3.2 INSULATION INSTALLATION

- A. Insulation: Provide and install as specified elsewhere in Division 7. Use insulation certified in writing as compatible and acceptable by the roofing membrane manufacturer for use with specified membrane.
- B. Attach insulation according to membrane manufacturer's approved shop drawings and specifications.
- C. Follow membrane manufacturer's recommended fastener layout and density rates as determined from pull-out tests conducted on the structural deck.

3.3 PULL-OUT TESTS

- A. Conduct fastener pull-out tests as required to determine insulation fastener type and density rate as established by membrane manufacturer. Submit manufacturer's approved pull-out test data and fastener recommendations to the Department.

3.4 MEMBRANE INSTALLATION

- A. GENERAL: Follow membrane manufacturer's recommended application procedures for the application specified in Part 1 of this specification. Install according to shop drawings approved by the manufacturer and the Department.
- B. FULLY ADHERED APPLICATIONS: Fully adhere membrane to acceptable substrate with adhesive applied at the rate specified by the manufacturer.
1. Position sheets as indicated on approved shop drawings.
 2. Fold sheet in half, apply adhesive to membrane and substrate. Allow to dry to tacky, not stringy or sticky state.
 3. Carefully push into place from fold line to overlap avoiding wrinkles and air pockets. Roll or broom membrane flat.
 4. Repeat procedure for other sheet half.
 5. Overlap adjacent membrane: 3" minimum and splice.
 6. Lap Splicing Procedure: All seams of the TPO system are heat seamed. If it is necessary to clean the seam prior to welding, use water, scouring powder and clean cotton cloths. Rinse the seam of all soap residue and wipe dry. The minimum seam width is 3" with a minimum of 1 1/2" being welded.
 7. Adjust the heat welder for the proper heat setting and speed. Allow to warm up and weld the seams after making the test welds to adjust welder to provide a complete weld.
 8. It may be necessary to place metal plates (6" wide x 24 gauge minimum) next to the seam to avoid wrinkles in the completed seam.
 9. Use a hand held welder to complete seams where the automatic welder is inappropriate and for repair of voids.
 10. After the sheet has cooled, probe all seams and use a hand held welder and silicone covered roller to repair any voids in the seams. Apply constant pressure against the seam edge to feel for voids, loose areas or poor welds. Probing and repair of voids is to be done on a daily basis.

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C. PERIMETER MEMBRANE SECUREMENT:

1. Fastening Pattern: Fasten membrane using approved fasteners. Follow manufacturer's recommended fastening pattern not to exceed 12" on center. Secure membrane along perimeter of each roof level, roof section, interior walls, penthouse curbs, expansion joints, skylights, any angle change greater than 2" in one (1) horizontal ft. and any other roof penetrations. Refer to manufacturer's approved shop drawings and appropriate details.

D. FLASHING

1. Flash all penetrations, walls, curbs, expansion joints and drains as shown on details and approved shop drawings.
2. Use prefabricated flashing accessories or components such as sealant pockets, pre-molded vent/pipe flashing.
3. Mechanically fasten flashing at terminations according to approved details.
4. Fastening membrane flashing through metal counter flashing is not acceptable to the Department.

E. WOOD NAILERS

1. Locate and install as shown on details; along roof edges and other areas as required by membrane manufacturer.
2. Anchor nailer to structural deck with manufacturer's approved fasteners, spaced appropriately for the specified installation; minimum withdrawal resistance: 100 lbs.
3. Height and Taper: Match top of adjacent construction within 1/4". Taper as required to provide continuous contact surface without creating ponding.

F. ROOF DRAINS

1. Inspect and test drain and drain lines with Department inspector present and prior to start of work in contract area. Open if blocked or clogged and repair/replace all broken, missing drain components and lines as required. Verify in writing that all drains and lines are free flowing and watertight prior to substantial completion. Comply with local plumbing codes.
2. Remove strainer and clamping ring repair (or replace if damaged) and reset.

G. WALKWAY PADS

1. Fully adhere walkway pads, if shown on drawings or if required to provide protected pathways from roof top access points, to mechanical or other equipment requiring roof top maintenance.

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H. METAL WORK

1. Existing counter flashing scheduled to remain; carefully bend to accommodate new membrane installation. Repair all cracked or broken counter flashing with matching material.
2. New metal work: Install to prevent buckling 'oil canning', allow for thermal movement and be properly sealed and waterproofed against wind damage (FM 1-90) and water infiltration. Follow SMACNA requirements.

I. CLEANING

1. Clean exposed surfaces of excess cement, adhesive, sealants, mortar and paint associated with the new work.
2. Clean work area of excess roofing materials and installation debris daily.
3. Repair or replace defaced or disfigured finishes caused by the work.

J. PROTECTION

1. Protect all building surfaces against damage from roofing work.
2. Where traffic must continue over finished, installed roofing system, protect membrane, underlayment accessories and finishes from damage.

END OF SECTION

SECTION 07920
JOINT SEALERS

PART 1 – GENERAL

1.1 STIPULATIONS

- A. The "General Conditions for Constructions Projects" form a part of this Section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 SCOPE

- A. This section includes joint sealers for the following locations:
1. Between new building and concrete pad.
 2. Around any wall penetrations into building for utilities.
 3. Elsewhere as required.

1.3 SYSTEM PERFORMANCES

- A. Provide joint sealers that have been produced and installed to establish and maintain watertight and airtight continuous seals.

1.4 SUBMITTALS

- A. Submit Manufacturer's Standard Color Charts: Showing full range of colors available for selection by the using agency.
- B. Submit Samples: Of each type of joints sealer required.
- C. Product Data: From manufacturers for each joint sealer product required including instructions for joint preparation and joint sealer application.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an installer who has successfully completed, within the last three (3) years, at least three (3) joint sealer applications similar in type and size to that of this project.
- B. Single Source Responsibility for Joint Sealer Materials: Obtain joint sealer materials from a single manufacturer for each different product required.

1.6 CERTIFICATES

- A. Certificates: From manufacturers of joint sealers attesting that their products comply with specification requirements and are suitable for the use indicated.

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1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver Materials: To project site in original unopened containers or bundles with labels informing above manufacturer, product name and designation, color, expiration period for use, pot life, curing time and mixing instructions for multi-component materials.
- B. Store and Handle Materials: In compliance with manufacturers' recommendations to prevent their deterioration or damage due to moisture, high or low temperatures, contaminants or other causes.

1.8 PROJECT CONDITIONS

- A. Environmental Conditions: Do not proceed with installation of joint sealers under the following conditions:
 - 1. When ambient and substrate temperature conditions are outside the limits permitted by joint sealer manufacturer or below 40°F. (4.4°C).
 - 2. When joint substrates are wet due to rain, frost, condensation or other causes.
- B. Joint Width Conditions: Do not proceed with installation of joint sealers where joint widths are less than allowed by joint sealer manufacturer for application indicated.
- C. Joint Substrate Conditions: Do not proceed with installation of joint sealers until contaminants capable of interfering with their adhesion are removed from joint substrates.

PART 2 - PRODUCTS

2.1 MATERIALS – GENERAL

- A. Compatibility: Provide joint sealers, joint fillers and other related materials that are compatible with one another and with joint substrates under conditions of service and application as demonstrated by sealant manufacturer based on testing and field experience.

2.2 ELASTOMERIC JOINT SEALANTS

- A. Elastomeric Sealant Standard: Provide manufacturer's standard chemically curing, Elastomeric sealant of base polymer indicated which complies with ASTM C 920 requirements including those referenced for type, grade, class and uses.
 - 1. Two-Part Non-Sag Polysulfide Sealant: Type M; Grade NS; Class 12 1/2; Uses NT, M, G, A and as applicable to joint substrates indicated O.

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2. One-Part Polysulfide Sealant: Type S; Grade NS; Class 12 1/2; Uses T, M, G, A and as applicable to joint substrate indicated O.
3. One-Part Non-Acid Curing Low Modulus Silicone Sealant: Type S; Grade NS; Class 25; Uses NT, M, G, A and as applicable to joint substrates indicated O.
4. One-Part Acid Curing Silicone Sealant: Type S; Grade NS; Class 25; Uses NT, G, A and as applicable to joint substrates indicated O.
5. One-Part Mildew Resistant Silicone Sealant: Type S; Grade NS; Class 25; Uses NT, G, A and as applicable to non-porous joint substrates indicated O; formulated with fungicide for sealing interior joints with non-porous substrates and subject to in-service exposure to conditions of high humidity and temperature extremes.
6. Multi-Part Non-Sag Urethane Sealant: Type M; Grade NS; Class 25; Uses NT, M, G, A and as applicable to joint substrates indicated O.
7. Two-Part Pourable Urethane Sealant: Type M; Grade NS; Class 25; Uses T, M, A and as applicable to joint substrates indicated O.
8. One-Part Non-Sag Urethane Sealant: Type S; Grade NS; Class 25; Uses NT, M, A and as applicable to joint substrates indicated O.
9. One-Part Non-Sag Low Modulus Urethane Sealant: Type S; Grade NS; Class 25; Uses NT, M, A and as applicable to joint substrates indicated O; with additional capability to withstand an increase and decrease of 50% of joint width as measured at time of application and remain in compliance with other requirements of ASTM C 920 based on manufacturer's recommendations and testing.
10. One-Part Pourable Urethane Sealant: Type S; Grade P; Class 25; Uses T, M and as applicable to joint substrates indicated O.

2.3 SOLVENT RELEASE CURING JOINT SEALANTS

- A. Acrylic Sealant: Manufacturer's standard one-part, non-sag, solvent release curing, acrylic terpolymer sealant complying with ASTM C 920 for Type S; Grade NS; Uses NT, M, G, A and as applicable to joint substrates indicated O.
- B. Butyl Sealant: Manufacturer's standard one-part, non-sag, solvent release curing, polymerized butyl sealant complying with FS TT-S-001657 for Type I and formulated with minimum of 75% solids to be non-staining, paintable and have a tack-free time of 24 hours.
- C. Pigmented Small Joint Sealant: Manufacturer's standard, solvent release curing, pigmented, synthetic rubber sealant formulated for sealing joints 3/16" or smaller in width.

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2.4 LATEX JOINT SEALANTS

- A. Acrylic Emulsion Sealant: Manufacturer's standard, one-part, non-sag, acrylic mildew-resistant, acrylic emulsion sealant complying with ASTM C 834, formulated to be paintable and recommended for exposed applications on interior and on protected exterior exposures involving joint movement of not more than $\pm 7.5\%$.

2.5 JOINT SEALANT BACKING

- A. General: Provide sealant backings of material and type which are non-staining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer.
- B. Plastic Foam Joint Fillers: Pre-formed, compressible, resilient, non-waxing, non-extruding strips of flexible, non-gassing plastic foam of material indicated below; non-absorbent to water and gas; and of size, shape and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Either open cell polyurethane foam or closed cell polyethylene foam, unless otherwise indicated, subject to approval of sealant manufacturer for cold applied sealants only.
- D. Elastomeric Tubing Joint Fillers: Neoprene, butyl, EPDM or silicone tubing complying with ASTM D 1056, non-absorbent to water and gas, capable of remaining resilient at temperatures down to -26°F (-15°C). Provide products with low compression set and of size and shape to provide a secondary seal, to control sealant depth and otherwise contribute to optimum sealant performance.
- E. Bond Breaker Tape: Polyethylene tape or other plastic tape as recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

2.6 MISCELLANEOUS MATERIALS

- A. Primer: Provide type recommended by joint sealer manufacturer where required for adhesion of sealant to joint substrates indicated.
- B. Cleaners for Non-Porous Surfaces: Provide non-staining, chemical cleaners of type which are acceptable to manufacturers of sealants and sealant backing materials which are not harmful to substrates and adjacent non-porous materials and which do not leave oily residues or otherwise have a detrimental effect on sealant adhesion or in-service performance.
- C. Masking Tape: Provide non-staining, non-absorbent type compatible with joint sealants and to surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine Joints Indicated to Receive Joint Sealers: For compliance with requirement for joint configuration, installation tolerances and other conditions affecting joint sealer performance. Do not proceed with installation of joint sealers until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealers to comply with recommendations of joint sealer manufacturers and the following requirements:
1. Remove all foreign material from joint substrates which could interfere with adhesion of joint sealer including dust; paints, except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer; old joint sealers; oil; grease; water-proofing; water repellants; water; surface dirt; and frost.
 2. Clean concrete, masonry and similar porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealers. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air.
 3. Remove laitance and form release agents from concrete.
 4. Clean metal, glass and other non-porous surfaces by chemical cleaners or other means which are not harmful to substrates or leave residues capable of interfering with adhesion of joint sealers.
- B. Joint Priming: Prime joint substrates where indicated or where recommended by joint sealer manufacturer based on prior experience. Apply primer to comply with joint sealer manufacturer's recommendations. Confine primers to areas of joint sealer bond. Do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining surfaces which otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tap immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALERS

- A. General: Comply with joint sealer manufacturer's printed installation instructions applicable to products and applications indicated except where more stringent requirements apply.
- B. Elastomeric Sealant Installation Standard: Comply with recommendations of ASTM C 962 for use of joint sealants as applicable to materials, applications and conditions indicated.
- C. Solvent Release Curing Sealant Installation Standard: Comply with requirements of ASTM C 804 for use of solvent release curing sealants.
- D. Latex Sealant Installation Standard: Comply with requirements of ASTM C 790 for use of latex sealants.
- E. Installation of Sealant Backings: Install sealant backings to comply with the following requirements:
 - 1. Install joint fillers of type indicated to provide support of sealants during application and at position required to produce the cross-sectional shapes and depths of installed sealant movement capability.
 - 2. Do not leave gaps between ends of joint fillers.
 - 3. Do not stretch, twist, puncture or tear joint fillers.
 - 4. Remove absorbent joint fillers which have become wet prior to sealant application and replace with dry materials.
 - 5. Install bond breaker tape between sealants and joint fillers, compression seals or back of joints where adhesion of sealant to surfaces at back of joints would result in sealant failure.
 - 6. Install compressible seals serving as sealant backings to comply with requirements indicated above for joint fillers.
- F. Installation of Sealants: Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
- G. Tooling of Non-Sag Sealants: Immediately after sealant application and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated, to eliminate air pockets and to ensure contact and adhesion of sealants with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
- H. Provide flush joint configuration per Figure 6B in ASTM C 962 where indicated.

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3.4 CLEANING

- A. Clean Off Excess Sealants: Or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

3.5 PROTECTION

- A. Protect Joint Sealers: During and after curing period from contact with contaminating substances or from damage resulting from construction operations or other causes so that they are without deterioration or damage at time of substantial completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealers immediately and reseal joints with new materials to produce joint sealer installations with repaired areas indistinguishable from original work.

END OF SECTION

END OF SPECIFICATIONS

PROOF OF VISIT

Department of Public Welfare Division of Facilities and Property Management

Project Reference No. W-0513-0801

Restoration of Selected Brick Veneer and
Partial Roofing Replacement
Nurses Building No. 04
Torrance State Hospital

Vendor's Name: McCann Masonry

Address: P.O. Box 76

Shenkleyville, PA 16151

I visited the Project site and reviewed the work to be completed prior to submitting a Bid Proposal.

Signature [Signature] Date 12/27/10

ESCORTED BY:

Facility Representative's Signature: [Signature]

Title: EMM

Date Escorted: 12-27-10

SPECIAL NOTE TO BIDDER

One signed copy of this Proof of Visit form must be returned with your Bid.
You may keep one copy for your records.

ARTICLE 11: Project Drawings

Drawings are available by Request

**To the Division of Facilities
&
Property Management**

ARTICLE 12: FORMS

Department of Public Welfare Division of Facilities and Property Management 1401 North 7 th Street P. O. Box 2675 Harrisburg, Pennsylvania 17105-2675	Change Order Request # _____ Vendor _____	Project No.: W- _____ Project Title: _____ Facility: _____ Funds Commitment #: _____
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SECTION ONE – COMPLETED BY ORIGINATOR

A. The Originator of this Change Order Request is: Facility/Using Agency Contractor

B. This is a: Debit Credit Time Extension Other (Choose appropriate boxes)

C. Describe the Change(s) Requested: (Attach letter or proposals, if available.)

D. Additional Days Requested To Be Added to Contract _____ (Days)

E. Original Completion Date of Contract _____ New Completion Date of Contract _____

F. Dollar Amount of Change Order (+ or -) \$ _____

G. Name of Originator _____ Tele # _____ Date _____

SECTION TWO – COMPLETED BY FACILITY PROGRAM OFFICE DESIGNEE

A. Do you agree with the Requested Change Order Description? Yes No

(Provide revised description and cost estimate if different from SECTION ONE above.) _____

B. This Change Order is a direct result of (choose one only)

- Request of the Facility Post Design Revision Acts of God/Weather
 Unforeseen Job Conditions Other Reasons (explain) _____

C. Name of Facility Reviewer: _____ Telephone No.: _____ Date: _____

D. Final Cost of Change Order: \$ _____ Debit Credit

Contingency Funds Available: \$ _____ Additional Funds Required: \$ _____

Funds to be disencumbered: \$ _____

E. Contractor's quote and approval letter attached _____ Yes _____ No

Fund (10 digits)				Cost Center (10 digits)					General Ledger (7 digits)									
Ledger (2 digits)	Approp. (3 digits)		Fiscal Year	All Zeros (3 digits)			Agency (2 digits)	Dep (1)	Organization (4 digits)		Cost Function (3 digits)			Item (1)	Minor Object (3 digits)		Sub-Object (3 digits)	

SECTION THREE – COMPLETED BY DIVISION OF FACILITIES AND PROPERTY MANAGEMENT

A. Change Order Reviewed: Approved Not Approved Modified

B. Reason(s) for disapproval/modification: _____

C. Title of Reviewer: _____ Bureau/Division: _____

D. Name of Reviewer: _____ Telephone No.: _____ Date _____

SECTION FOUR – COMPLETED BY COMPTROLLER'S OFFICE

Must be approved by comptroller if contingency funds are not available.

Funds are available in the amount of \$ _____ for

Comptroller's Signature: _____ Date _____

A. Comptroller's Comments:

Upon completion, DFPM will distribute ccs to:

- Comptroller
- Budget
- Procurement
- Facility's COO
- Facility's Financial Manager
- Facility's Purchasing Agent
- Facility's Maintenance Manager
- DFPM

Department of Public Welfare Division of Facilities and Property Management 1401 North 7 th Street P.O. Box 2675 Harrisburg, Pennsylvania 17105	CERTIFICATE OF FINAL COMPLETION AND FINAL PAYMENT	Project No.: _____ Project Title: _____ Location: _____ Funds Commitment #: _____
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SECTION ONE

The Contractor on this project does hereby certify the Final Completion and Inspection Date as follows:

- A. That the work associated with the above-referenced project has been deemed complete on this date, _____; and further;
- B. That all of the construction work of this contract on the above-referenced project has been completed in an acceptable manner and in accordance with the plans and specifications and any approved contract modifications thereto, with the exception of those punch list items requiring completion as detailed in Section Two; and;
- C. That the Contractor, by virtue of said completion, can be paid all funds due and owing for the contract indicated above less one and one-half times the aggregate value of those certain Punch List items requiring completion or correction and any additional funds required to be retained by the Department, as set out in the General Conditions of Contract, and as indicated in Section Two or attached documents.

WITNESS the due execution hereof the _____ day of _____ year _____

 Contractor's Name

SECTION TWO

A. The Facility and the Designer shall detail all items required to be completed or corrected to comply with the Contract Documents and assess a reasonable cost to complete in the Punch List below (additional sheets may be attached, if required).

ITEM NO.	DESCRIPTION	VALUE
		\$
		\$
		\$
		\$
		\$

Sub Total \$ _____
 X 1.5 Multiplier

Punch List Total \$ _____

B. All Punch List Items shall be completed within thirty days after the date of the Final Completion, or before the contract's completion date, whichever comes first.

Recapitulation of Funds Retained

Punch List Total Listed Above	\$
Credit Change Order(s) Pending	\$
Debit Change Order(s) Pending	\$
Other Claims Pending	\$

Grand Total \$ _____

C. The Grand Total Amount is Agreed to by the Following Signees:

Contractor/Owner _____	Facility Representative _____	Div. of Fac. & Property Mgmt. Designer _____
Phone No.: _____	Phone No.: _____	Phone No.: _____
Date: _____	Date: _____	Date: _____

Vendor signs form and submits final invoice to facility. FMM & DFPM Designer review project and sign form. Facility submits completed form and final invoice to Comptroller for payment.

RECIPROCAL LIMITATIONS ACT REQUIREMENTS

Please Complete Applicable Portion of Pages 3 & 4 and Return with Bid.

NOTE: These Requirements Do Not Apply To Bids Under \$10,000.00

I. REQUIREMENTS

A. The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering supplies produced, manufactured, mined or grown in Pennsylvania as against those bidders offering supplies produced, manufactured, mined or grown in any state that gives or requires a preference to supplies produced, manufactured, mined or grown in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular supply.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state supplies and the amount of the preference:

STATE	PREFERENCE
1. Alaska	7% (applies only to timber, lumber, and manufactured lumber products originating in the state)
2. Arizona	5% (construction materials produced or manufactured in the state only)
3. Hawaii	10%
4. Illinois	10% for coal only
5. Iowa	5% for coal only
6. Louisiana	4% meat and meat products
	4% catfish
	10% milk & dairy products
	10% steel rolled in Louisiana
	7% all other products
7. Montana	5% for residents *
	3% for non-residents*
	*offering in-state goods, supplies, equipment and materials
8. New Mexico	5%
9. New York	3% for purchase of food only
10. Oklahoma	5%
11. Virginia	4% for coal only
12. Washington	5% (fuels mined or produced in the state only)
13. Wyoming	5%

B. The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering printing performed in Pennsylvania as against those bidders offering printing performed in any state that gives or requires a preference to printing performed in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular category of printing.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state printing and the amount of the preference:

STATE	PREFERENCE
1. Hawaii	15%
2. Idaho	10%
3. Louisiana	3%
4. Montana	8%
5. New Mexico	5%
6. Wyoming	10%

C. The Reciprocal Limitations Act, also requires the Commonwealth to give resident bidders a preference against a nonresident bidder from any state that gives or requires a preference to bidders from that state. The amount of the preference shall be equal to the amount of the preference applied by the state of the nonresident bidder. The following is a list of the states which have been found by the Department of General Services to have applied a preference for in-state bidders and the amount of the preference:

STATE	PREFERENCE
1. Alaska	5%(supplies only)
2. Arizona	5%(construction materials from Arizona resident dealers only)
3. California	5%(for supply contracts only in excess of \$100,000.00)

- | | |
|-------------------|---|
| 4. Connecticut | 10%(for supplies only) |
| 5. Montana | 3% |
| 6. New Mexico | 5%(for supplies only) |
| 7. South Carolina | 2%(under \$2,500,000.00)
1%(over \$2,500,000.00) |
| | This preference does not apply to construction contracts nor where the price of a single unit exceeds \$10,000. |
| 8. West Virginia | 2.5%(for the construction, repair or improvement of any buildings |
| 9. Wyoming | 5% |

D. The Reciprocal Limitations Act also requires the Commonwealth not to specify, use or purchase supplies which are produced, manufactured, mined or grown in any state that prohibits the specification for, use, or purchase of such items in or on its public buildings or other works, when such items are not produced, manufactured, mined or grown in such state. The following is a list of the states which have been found by the Department of General Services to have prohibited the use of out-of-state supplies:

STATE	PROHIBITION
1. Alabama	Only for printing and binding involving "messages of the Governor to the Legislature", all bills, documents and reports ordered by and for the use of the Legislature or either house thereof while in session; all blanks, circulars, notices and forms used in the office of or ordered by the Governor, or by any state official, board, commission, bureau or department, or by the clerks of the supreme court . . ./and other appellate courts/; and all blanks and forms ordered by and for the use of the Senate and Clerk or the House of Representatives, and binding the original records and opinions of the Supreme Court . . . /and other appellate courts/
2. Georgia	Forest products only
3. Indiana	Coal
4. Michigan	Printing
5. New Jersey	For legislative printing and bidders for all of the following items:* automotive parts, farm machinery, stainless steel tableware, kitchen small wares, major household appliances, chain link fence, portable sanitation units, glass, glazier supplies, storage batteries, spark plugs and filters, automotive glass, dental casting, prosthetic devices, pianos, musical instruments, carpet and cushion, shades, upholstery materials and supplies, room air conditioning, electrical supplies, plumbing supplies, hardware supplies, fasteners, lumber, building supplies, audiovisual/video equipment, fire extinguishers, fire hose, motor oils, fuel oil, sporting goods, photographic supplies, police equipment and supplies, venetian blinds, drapes, cheese, fresh fruit and vegetables, ammonia, bleach, pails, cleaning soaps, toilet cleaner, bowl cleaner, sponges, paper towel dispensers, water hose, course paper products, corrections department uniforms fine paper and paper cups.
6. New Mexico	Construction
7. Ohio	Only for House and Senate bills, general and local laws, and joint resolutions; the journals and bulletins of the Senate and house of Representatives and reports, communications, and other documents which form part of the journals; reports, communications, and other documents ordered by the General Assembly, or either House, or by the executive department or elective state officers; blanks, circulars, and other work for the use of the executive departments, and elective state officers; and opinions of the Attorney General.
8. Rhode Island	Only for food for state institutions.

*If the bid discloses that the bidder is offering to supply one of the above-listed products from the listed state (or in the case of New Jersey, if the bid discloses that the bidder is from New Jersey and it is offering one of the above-listed items), it shall be rejected. Contractors are prohibited from supplying these items from these states.

II. CALCULATION OF PREFERENCE

In calculating the preference, the amount of a bid submitted by a Pennsylvania bidder shall be reduced by the percentage preference which would be given to a nonresident bidder by its state of residency (as found by the Department of General Services in Paragraph C above). Similarly, the amount of a bid offering Pennsylvania goods, supplies, equipment or materials shall be reduced by the percentage preference which would be given to another bidder by the state where the goods, supplies, equipment or materials are produced, manufactured, mined or grown (as found by the Department of General Services in Paragraphs A and B above).

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

III. STATE OF MANUFACTURE

All bidders must complete the following chart by listing the name of the manufacturer and the state (or foreign country) of manufacture for each item. If the item is domestically produced, the bidder must indicate the state in the United States where the item will be manufactured. This chart must be completed and submitted with the bid or no later than two (2) business days after notification from the Issuing Office to furnish the information. Failure to complete this chart and provide the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid.

ITEM NUMBER	NAME OF MANUFACTURER	STATE (OR FOREIGN COUNTRY) OF MANUFACTURE
Brick	Hanmar	PA
Brick	Cunningham	NC
Brick	Palmetto	SC
Mortar	Essroc	PA

IV. BIDDER'S RESIDENCY

A. In determining whether the bidder is a nonresident bidder from a state that gives or requires a preference to bidders from that state, the address given on the first page of this invitation to bid shall be used by the Commonwealth. If that address is incorrect, or if no address is given, the correct address should be provided in the space below:

Correct Address:

P.O. Box 76

Sheakleyville, PA 16151

B. In order to claim the preference provided under Section I.B., Pennsylvania resident bidders must complete the following or have such information on file with the Issuing Office:

1. Address of bidder's bona fide establishment in Pennsylvania at which it was transacting business on the date when bids for this contract/requisition were first solicited:

PO. Box 76
Sheakleyville, PA 16151

2. a. If the bidder is a corporation:

(1) The corporation is or is not incorporated under the laws of the Commonwealth of Pennsylvania.

(a) If the bidder is incorporated under the laws of the Commonwealth of Pennsylvania, provide date of incorporation:

(b) If the bidder is not incorporated under the laws of the Commonwealth of Pennsylvania, it must have a certificate of authority to do business in the Commonwealth of Pennsylvania from the Pennsylvania Department of State as required by the Pennsylvania Business Corporation Law (15 P.S. §2001). Provide date of issuance of certificate of authority:

(2) The corporation is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must register the fictitious name with the Secretary of the Commonwealth and the office of the prothonotary of the county wherein the registered office of such corporation is located as required by the Fictitious Corporate Name Act, as amended 15 P.S. §51 et seq. Corporate bidders conducting business under an assumed or fictitious name must provide date of registry of the assumed or fictitious name:

b. If the bidder is a partnership:

(1) The partnership is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must file with the Secretary of the Commonwealth and the office of the prothonotary the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended 54 P.S. §28.1. Partnerships conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth:

(2) The partnership is or is not a limited partnership formed under the laws of any jurisdiction other than the Commonwealth of Pennsylvania. If the bidder is an Out-of-state limited partnership, it must register with the Pennsylvania Department of State as required by the Act of July 10, 1981, P.L. 237, as amended, 59 Pa. C.S.A. §503. Out-of-state limited partnerships must provide the date of registry with the Pennsylvania Department of State:

c. If the bidder is an individual:

He or she is or is not conducting business under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, he or she must file with the Secretary of the Commonwealth and the office of the prothonotary in the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended, 54 P.S. §28.1. Individuals conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth:

DEPARTMENT OF PUBLIC WELFARE
DIVISION OF FACILITIES AND PROPERTY MANAGEMENT
P. O. BOX 2675
1401 NORTH SEVENTH STREET
HARRISBURG, PENNSYLVANIA 17105-2675

CLARIFICATION NO.: _____

Issue Date: _____ Project Agency No.: _____

Project Title: _____ Bid Date: _____

Project Location: _____

The following explanation and clarification of the project specifications or drawings are provided herein. These items are hereby incorporated into the contract documents as a part of the work.

SPECIFICATIONS:

DRAWINGS:

Project Designer: _____ Telephone No.: _____

DEPARTMENT OF PUBLIC WELFARE
DIVISION OF FACILITIES AND PROPERTY MANAGEMENT
P. O. BOX 2675
1401 NORTH SEVENTH STREET
HARRISBURG, PENNSYLVANIA 17105-2675

BULLETIN NO.: _____

Issue Date: _____ Project No.: _____

Project Title: _____ Bid Date: _____

Project Location: _____

The following changes in the project specifications or drawings are provided herein. These items are hereby incorporated into the bid documents as a part of the work and will affect the bid proposal.

SPECIFICATION CHANGES:

DRAWING CHANGES:

Project Designer: _____ Telephone No.: _____

Please sign and date this Bulletin and attach a copy to the Bid Proposal. Bid will be rejected if this completed Bulletin is not included with the Bid Proposal.

Name: _____ Title: _____ Date: _____

Company: _____

SAMPLE – NOTICE OF AWARD – over \$25,000.

[Facility Letterhead]

Date

Contractor's Name
Address
Address

RE: DPW Project #:
[Project Title]
Amount of Contract - \$00,000.
Base Bid # _____

Gentlemen:

The Department of Public Welfare has determined that your firm has submitted the lowest responsible and responsive bid to perform work on this project. Required bonds and insurance documents must be completed and returned to [Name of Facility] in accordance with Article 9, Contract Surety and Insurance, before any work may begin.

Issuance of this Notice of Award shall not constitute a waiver of the Department's right to rescind the award. Please note that you will not have a commitment from the Department of Public Welfare until you have received a fully executed contract and a Notice to Proceed.

No off-site work should be commenced until you receive the fully executed contract and Notice to Proceed. The Facility will notify you of the date, time, and place of the Initial Job Conference, if required. Please remember that the number of calendar days allotted for completion of this contract is calculated from the effective date listed on the Notice to Proceed.

Sincerely,

[Name]
[Title]

SAMPLE - NOTICE OF AWARD - \$25,000. and under

[Facility Letterhead]

Date

Contractor's Name
Address
Address

RE: DPW Project #:
[Project Title]
Amount of Contract - \$00,000.
Base Bid # _____

Gentlemen:

The Department of Public Welfare has determined that your firm has submitted the lowest responsible and responsive bid to perform work on this project. Required insurance documents must be completed and returned to [Name of Facility] in accordance with Article 9, Insurance, before any work may begin.

Issuance of this Notice of Award shall not constitute a waiver of the Department's right to rescind the award. Please note that you will not have a commitment from the Department of Public Welfare until you have received a fully executed contract and a Notice to Proceed.

No off-site work should be commenced until you receive the fully executed contract and Notice to Proceed. The Facility will notify you of the date, time, and place of the Initial Job Conference, if required. Please remember that the number of calendar days allotted for completion of this contract is calculated from the effective date listed on the Notice to Proceed.

Sincerely,

[Name]
[Title]

Department of Public Welfare Division of Facilities and Property Management 1401 North 7 th Street P. O. Box 2675 Harrisburg, Pennsylvania 17105-2675	APPROVAL FOR MILESTONE PAYMENT	Project No.:
		Project Title:
		Location:
		Funds Commitment #:

Application is made for Milestone payment as shown below:

1. Milestone # _____: \$ _____

2. Description of Milestone:

The undersigned attest Completion of the Contractual Work conforming to Milestone # _____.

_____	_____	_____
Contractor/Owner	Facility Representative	DFPM Designer
Phone No.: _____	Phone No.: _____	Phone No.: _____
Date: _____	Date: _____	Date: _____

(After reviewed/approved and signed by above entities, attach invoice from Contractor including vendor's address and vendor's SAP #) and forward to DPW's Comptrollers for payment.)

PREVAILING WAGES PROJECT RATES

Project Name: W-0513-0801 Restoration of Selected Brick Veneer and Parapet Wall Sections and Partial Roofing Replacement on
Awarding Agency: DPW, Office of Mental Health and Substance Abuse Services
 Nurses Building 4, Ferrance State Hosp.
Contract Award Date: 12/29/2010
Serial Number: 10-07444
Project Classification: Building
Determination Date: 11/29/2010
Assigned Field Office: Altoona
Field Office Phone Number: 814-940-6224
Toll Free Phone Number:

Westmoreland County

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	8/1/2010		\$31.87	\$20.04	\$51.91
Asbestos & Insulation Workers	8/1/2011		\$33.27	\$20.04	\$53.31
Asbestos & Insulation Workers	8/1/2012		\$34.67	\$20.04	\$54.71
Boilermakers	6/1/2008		\$33.90	\$20.06	\$53.96
Boilermakers	8/1/2010		\$37.52	\$22.49	\$60.01
Bricklayer	6/1/2010		\$28.10	\$15.99	\$44.09
Bricklayer	12/1/2010		\$28.55	\$16.34	\$44.89
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2009		\$27.82	\$11.19	\$39.01
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2010		\$28.11	\$11.91	\$40.02
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	1/1/2011		\$28.39	\$12.02	\$40.41
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2011		\$28.77	\$13.05	\$41.82
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2012		\$29.53	\$13.68	\$43.21
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2013		\$30.28	\$14.33	\$44.61

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Cement Finishers	6/1/2009		\$25.79	\$11.82	\$37.61
Cement Finishers	12/1/2009		\$25.79	\$12.27	\$38.06
Cement Finishers	6/1/2010		\$26.79	\$12.27	\$39.06
Cement Finishers	12/1/2010		\$26.79	\$12.77	\$39.56
Dockbuilder/Pile Driver Divers	1/1/2010		\$29.95	\$12.25	\$42.20
Drywall Finisher	6/1/2009		\$24.45	\$13.59	\$38.04
Drywall Finisher	6/1/2010		\$24.55	\$14.49	\$39.04
Drywall Finisher	6/1/2011		\$25.30	\$14.74	\$40.04
Drywall Finisher	6/1/2012		\$26.05	\$14.99	\$41.04
Electric Lineman	6/1/2008		\$37.45	\$15.47	\$52.92
Electric Lineman	5/31/2009		\$39.54	\$16.03	\$55.57
Electric Lineman	5/31/2010		\$38.00	\$17.73	\$55.73
Electric Lineman	5/30/2011		\$38.88	\$17.96	\$56.84
Electric Lineman	11/28/2011		\$39.78	\$18.20	\$57.98
Electric Lineman	5/28/2012		\$40.70	\$18.45	\$59.15
Electric Lineman	11/26/2012		\$41.63	\$18.70	\$60.33
Electricians & Telecommunications Installation Technician	12/26/2008		\$33.11	\$17.13	\$50.24
Electricians & Telecommunications Installation Technician	12/25/2009		\$35.61	\$17.13	\$52.74
Electricians & Telecommunications Installation Technician	12/24/2010		\$38.01	\$17.13	\$55.14
Elevator Constructor	1/1/2010		\$39.88	\$20.23	\$60.11
Glazier	9/1/2010		\$27.54	\$18.31	\$45.85
Glazier	9/1/2011		\$28.04	\$19.06	\$47.10
Glazier	9/1/2012		\$28.54	\$19.81	\$48.35
Glazier	9/1/2013		\$29.04	\$20.31	\$49.35
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2009		\$29.43	\$21.41	\$50.84
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2010		\$30.03	\$22.71	\$52.74
Laborers (Class 01 - See notes)	6/1/2009		\$20.92	\$9.27	\$30.19
Laborers (Class 01 - See notes)	12/1/2009		\$20.92	\$9.72	\$30.64
Laborers (Class 01 - See notes)	6/1/2010		\$20.92	\$9.72	\$30.64
Laborers (Class 01 - See notes)	1/1/2011		\$21.17	\$10.52	\$31.69

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 01 - See notes)	1/1/2012		\$21.42	\$11.32	\$32.74
Laborers (Class 01 - See notes)	1/1/2013		\$21.67	\$12.12	\$33.79
Laborers (Class 01 - See notes)	1/1/2014		\$21.92	\$12.92	\$34.84
Laborers (Class 01 - See notes)	1/1/2015		\$22.17	\$13.72	\$35.89
Laborers (Class 02 - See notes)	6/1/2009		\$21.07	\$9.27	\$30.34
Laborers (Class 02 - See notes)	12/1/2009		\$21.07	\$9.72	\$30.79
Laborers (Class 02 - See notes)	6/1/2010		\$21.07	\$9.72	\$30.79
Laborers (Class 02 - See notes)	1/1/2011		\$21.32	\$10.52	\$31.84
Laborers (Class 02 - See notes)	1/1/2012		\$21.57	\$11.32	\$32.89
Laborers (Class 02 - See notes)	1/1/2013		\$21.82	\$12.12	\$33.94
Laborers (Class 02 - See notes)	1/1/2014		\$22.07	\$12.92	\$34.99
Laborers (Class 02 - See notes)	1/1/2015		\$22.32	\$13.72	\$36.04
Laborers (Class 03 - See notes)	6/1/2009		\$21.20	\$9.27	\$30.47
Laborers (Class 03 - See notes)	12/1/2009		\$21.20	\$9.72	\$30.92
Laborers (Class 03 - See notes)	6/1/2010		\$21.20	\$9.72	\$30.92
Laborers (Class 03 - See notes)	1/1/2011		\$21.45	\$10.52	\$31.97
Laborers (Class 03 - See notes)	1/1/2012		\$21.70	\$11.32	\$33.02
Laborers (Class 03 - See notes)	1/1/2013		\$21.95	\$12.12	\$34.07
Laborers (Class 03 - See notes)	1/1/2014		\$22.20	\$12.92	\$35.12
Laborers (Class 03 - See notes)	1/1/2015		\$22.45	\$13.72	\$36.17
Laborers (Class 04 - See notes)	6/1/2009		\$21.67	\$9.27	\$30.94
Laborers (Class 04 - See notes)	12/1/2009		\$21.67	\$9.72	\$31.39
Laborers (Class 04 - See notes)	6/1/2010		\$21.67	\$9.72	\$31.39
Laborers (Class 04 - See notes)	1/1/2011		\$21.92	\$10.52	\$32.44
Laborers (Class 04 - See notes)	1/1/2012		\$22.17	\$11.32	\$33.49
Laborers (Class 04 - See notes)	1/1/2013		\$22.42	\$12.12	\$34.54
Laborers (Class 04 - See notes)	1/1/2014		\$22.67	\$12.92	\$35.59
Laborers (Class 04 - See notes)	1/1/2015		\$22.92	\$13.72	\$36.64
Landscape Laborer	7/1/2009		\$18.25	\$9.05	\$27.30
Landscape Laborer	7/1/2010		\$18.25	\$9.90	\$28.15
Landscape Laborer (Skilled)	7/1/2009		\$18.67	\$9.05	\$27.72

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Landscape Laborer (Skilled)	7/1/2010		\$18.67	\$9.90	\$28.57
Landscape Laborer (Tractor Operator)	7/1/2009		\$18.97	\$9.05	\$28.02
Landscape Laborer (Tractor Operator)	7/1/2010		\$18.97	\$9.90	\$28.87
Marble Finisher	6/1/2009		\$19.17	\$10.55	\$29.72
Marble Finisher	12/1/2009		\$19.32	\$11.05	\$30.37
Marble Finisher	6/1/2010		\$19.52	\$11.70	\$31.22
Marble Mason	6/1/2010		\$19.42	\$9.41	\$28.83
Millwright	6/1/2008		\$32.71	\$14.29	\$47.00
Millwright	6/1/2011		\$34.42	\$15.08	\$49.50
Operators (Class 01 - see notes)	6/1/2009		\$28.99	\$14.80	\$43.79
Operators (Class 01 - see notes)	6/1/2010		\$30.22	\$15.32	\$45.54
Operators (Class 02 -see notes)	6/1/2009		\$25.80	\$14.80	\$40.60
Operators (Class 02 -see notes)	6/1/2010		\$26.78	\$15.32	\$42.10
Operators (Class 03 - see notes)	6/1/2009		\$24.08	\$14.80	\$38.88
Operators (Class 03 - see notes)	6/1/2010		\$25.06	\$15.32	\$40.38
Painters Class 6 (see notes)	6/1/2009		\$24.77	\$12.81	\$37.58
Painters Class 6 (see notes)	6/1/2010		\$25.28	\$13.53	\$38.81
Painters Class 6 (see notes)	6/1/2010		\$25.28	\$14.78	\$40.06
Pile Driver Diver Tender (Building, Heavy, Highway)	1/1/2010		\$29.95	\$12.25	\$42.20
Pile Driver Divers (Building, Heavy, Highway)	1/1/2010		\$44.39	\$12.25	\$56.64
Plasterers	6/1/2009		\$26.13	\$11.70	\$37.83
Plasterers	6/1/2010		\$26.13	\$12.15	\$38.28
Plasterers	6/1/2011		\$26.58	\$12.15	\$38.73
Plasterers	6/1/2012		\$27.03	\$12.15	\$39.18
Plumbers and Steamfitters	6/1/2010		\$30.14	\$18.83	\$48.97
Plumbers and Steamfitters	1/1/2011		\$29.46	\$19.51	\$48.97
Plumbers and Steamfitters	6/1/2011		\$31.13	\$19.86	\$50.99
Pointers, Caulkers, Cleaners	7/1/2009		\$25.88	\$13.33	\$39.21
Pointers, Caulkers, Cleaners	12/1/2009		\$25.98	\$13.83	\$39.81
Pointers, Caulkers, Cleaners	6/1/2010		\$25.98	\$14.33	\$40.31

PREVAILING WAGES PROJECT RATES

Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Pointers, Caulkers, Cleaners	12/1/2010		\$26.36	\$14.53	\$40.89
Roofers	6/1/2009		\$26.00	\$11.69	\$37.69
Roofers	6/1/2010		\$27.50	\$11.69	\$39.19
Roofers	12/1/2010		\$26.87	\$12.32	\$39.19
Sheet Metal Workers	7/1/2010		\$31.46	\$20.81	\$52.27
Sprinklerfitters	7/1/2009		\$33.35	\$17.05	\$50.40
Sprinklerfitters	1/1/2010		\$33.85	\$17.60	\$51.45
Stone Masons	12/1/2007		\$27.55	\$13.47	\$41.02
Stone Masons	12/1/2009		\$28.92	\$15.20	\$44.12
Stone Masons	6/1/2010		\$29.32	\$15.85	\$45.17
Stone Masons	12/1/2010		\$29.75	\$16.22	\$45.97
Terrazzo Finisher	6/1/2009		\$25.61	\$12.04	\$37.65
Terrazzo Finisher	12/1/2009		\$25.76	\$12.54	\$38.30
Terrazzo Finisher	12/1/2010		\$26.36	\$13.19	\$39.55
Terrazzo Setter	6/1/2009		\$26.15	\$13.05	\$39.20
Terrazzo Setter	12/1/2009		\$26.30	\$13.55	\$39.85
Terrazzo Setter	6/1/2010		\$26.90	\$14.20	\$41.10
Terrazzo Setter	12/1/2010		\$26.90	\$14.20	\$41.10
Tile & Marble Finisher	6/1/2010		\$26.36	\$13.19	\$39.55
Tile Finisher	6/1/2009		\$20.77	\$10.55	\$31.32
Tile Finisher	12/1/2009		\$20.92	\$11.05	\$31.97
Tile Finisher	6/1/2010		\$21.12	\$11.70	\$32.82
Tile Setter	6/1/2009		\$26.85	\$13.45	\$40.30
Tile Setter	12/1/2009		\$27.10	\$13.95	\$41.05
Tile Setter	6/1/2010		\$27.40	\$14.60	\$42.00
Truckdriver class 1(see notes)	1/1/2009		\$24.23	\$11.44	\$35.67
Truckdriver class 1(see notes)	1/1/2010		\$24.98	\$12.04	\$37.02
Truckdriver class 2 (see notes)	1/1/2009		\$24.38	\$11.51	\$35.89
Truckdriver class 2 (see notes)	1/1/2010		\$25.13	\$12.11	\$37.24
Truckdriver class 3 (see notes)	1/1/2009		\$24.91	\$11.75	\$36.66
Truckdriver class 3 (see notes)	1/1/2010		\$25.64	\$12.37	\$38.01

PREVAILING WAGES PROJECT RATES

Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter Welder	1/1/2009		\$28.23	\$12.16	\$40.39
Carpenter Welder	1/1/2010		\$29.18	\$12.56	\$41.74
Carpenters	1/1/2009		\$27.53	\$12.16	\$39.69
Carpenters	1/1/2010		\$28.48	\$12.56	\$41.04
Cement Finishers	1/1/2009		\$26.72	\$12.97	\$39.69
Cement Finishers	1/1/2010		\$27.62	\$13.42	\$41.04
Iron Workers	6/1/2009		\$29.43	\$21.41	\$50.84
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2010		\$30.03	\$22.71	\$52.74
Laborers (Class 01 - See notes)	1/1/2009		\$23.30	\$12.65	\$35.95
Laborers (Class 01 - See notes)	1/1/2010		\$23.75	\$13.55	\$37.30
Laborers (Class 02 - See notes)	1/1/2009		\$23.46	\$12.65	\$36.11
Laborers (Class 02 - See notes)	1/1/2010		\$23.91	\$13.55	\$37.46
Laborers (Class 03 - See notes)	1/1/2009		\$23.85	\$12.65	\$36.50
Laborers (Class 03 - See notes)	1/1/2010		\$24.30	\$13.55	\$37.85
Laborers (Class 04 - See notes)	1/1/2009		\$24.30	\$12.65	\$36.95
Laborers (Class 04 - See notes)	1/1/2010		\$24.75	\$13.55	\$38.30
Laborers (Class 05 - See notes)	1/1/2009		\$24.71	\$12.65	\$37.36
Laborers (Class 05 - See notes)	1/1/2010		\$25.16	\$13.55	\$38.71
Laborers (Class 06 - See notes)	1/1/2009		\$21.55	\$12.65	\$34.20
Laborers (Class 06 - See notes)	1/1/2010		\$22.00	\$13.55	\$35.55
Laborers (Class 07 - See notes)	1/1/2009		\$24.20	\$12.65	\$36.85
Laborers (Class 07 - See notes)	1/1/2010		\$24.65	\$13.55	\$38.20
Laborers (Class 08 - See notes)	1/1/2009		\$25.70	\$12.65	\$38.35
Laborers (Class 08 - See notes)	1/1/2010		\$26.15	\$13.55	\$39.70
Operators (Class 01 - see notes)	1/1/2009		\$26.38	\$14.44	\$40.82
Operators (Class 01 - see notes)	1/1/2010		\$27.18	\$14.99	\$42.17
Operators (Class 02 -see notes)	1/1/2009		\$26.12	\$14.44	\$40.56
Operators (Class 02 -see notes)	1/1/2010		\$26.92	\$14.99	\$41.91
Operators (Class 03 - See notes)	1/1/2009		\$22.47	\$14.44	\$36.91
Operators (Class 03 - See notes)	1/1/2010		\$23.27	\$14.99	\$38.26

PREVAILING WAGES PROJECT RATES

Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Class 04 - See notes)	1/1/2009		\$22.01	\$14.44	\$36.45
Operators (Class 04 - See notes)	1/1/2010		\$22.81	\$14.99	\$37.80
Operators (Class 05 - See notes)	1/1/2009		\$21.76	\$14.44	\$36.20
Operators (Class 05 - See notes)	1/1/2010		\$22.56	\$14.99	\$37.55
Painters Class 1 (see notes)	6/1/2009		\$27.24	\$12.81	\$40.05
Painters Class 1 (see notes)	6/1/2010		\$27.84	\$13.53	\$41.37
Painters Class 1 (see notes)	6/1/2010		\$27.84	\$15.03	\$42.87
Painters Class 2 (see notes)	6/1/2009		\$27.77	\$12.81	\$40.58
Painters Class 2 (see notes)	6/1/2010		\$28.38	\$13.53	\$41.91
Painters Class 2 (see notes)	6/1/2010		\$28.38	\$15.03	\$43.41
Painters Class 3 (see notes)	6/1/2009		\$29.81	\$12.81	\$42.62
Painters Class 3 (see notes)	6/1/2010		\$30.48	\$13.53	\$44.01
Painters Class 3 (see notes)	6/1/2010		\$30.48	\$15.28	\$45.76
Painters Class 4 (see notes)	6/1/2009		\$23.79	\$12.81	\$36.60
Painters Class 4 (see notes)	6/1/2010		\$24.38	\$13.53	\$37.91
Painters Class 4 (see notes)	6/1/2010		\$24.38	\$14.93	\$39.31
Painters Class 5 (see notes)	6/1/2009		\$19.28	\$12.81	\$32.09
Painters Class 5 (see notes)	6/1/2010		\$19.81	\$13.53	\$33.34
Painters Class 5 (see notes)	6/1/2010		\$19.81	\$14.67	\$34.48
Piledrivers	1/1/2009		\$28.85	\$12.00	\$40.85
Piledrivers	1/1/2010		\$29.95	\$12.25	\$42.20
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2010		\$30.27	\$26.09	\$56.36

STANDARD BID TABULATION
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF PUBLIC WELFARE

NAME OF VENDOR		BASE BID #1	BASE BID #2	BASE BID #3	PROPOSAL NUMBER	FACILITY
Arrow Enterprises, Inc. III 244 West Airpark Drive Central City, PA 15926		NO BID	RETURNED		W-0513-0801	Torrance State Hospital
BCS Construction, Inc. 1117 21 st Street, Suite 100 Altoona, PA 16601		\$ 133,153.00	\$ 95,951.00		NRM PROJECT	BID OPENING DATE January 5, 2011 2:00 PM
Beacon Construction Company, Inc. 5604 Baum Boulevard Pittsburgh, PA 15206		NO BID	RETURNED		Restoration of Selected Brick Veneer and Parapet Wall Sections & Partial Roofing Replacement, Nurses' Building No. 4	
Capitol Construction, Inc. 541 Main Street Windber, PA 15963		\$ 112,665.00	\$ 89,000.00			
Carstensen, Inc. 1203 Barnett Street Johnstown, PA 15905		NO BID				
G. Kidd, Inc. 8095 Saltsburg Road Pittsburgh, PA 15239		NO BID	RETURNED			
Johnstown Construction 695 Solomon Run Road Johnstown, PA 15904		NO BID	RETURNED			
Leonard S. Fiore, Inc. 5506 Sixth Street Altoona, PA 16602		NO BID	RETURNED			
Major Builders, Inc. 514 Menoher Boulevard Johnstown, PA 15901		NO BID	RETURNED			
Ramp Construction Company, Inc. 2 Iron Street Canonsburg, PA 15317		\$ 119,000.00	\$ 79,000.00			
Squeaky Clean Construction 3951 Leechburg Road Lower Burrell, PA 15068		NO BID	RETURNED			

FOR LOCAL AWARDS (BIDS OPENED IN PRESENCE OF)
I CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY
OF BIDS RECEIVED AND AWARDS MADE.

APPROVED SIGNATURE _____
PURCHASING AGENT _____
BUSINESS MANAGER _____

FOR DIVISION OF PROCUREMENT USE ONLY (WITNESSED OPENINGS)

DEPT. PUBLIC WELFARE
Debra A. Leavel
DIRECTOR OF PROCUREMENT

Christine Z. Schroyer
TREASURY

TIE BIDS - AWARDED BY BUSINESS MANAGER

STANDARD BID TABULATION
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF PUBLIC WELFARE

NAME OF VENDOR	BASE BID #1	BASE BID #2	BASE BID #3	PROPOSAL NUMBER W-0513-0801	FACILITY Torrence State Hospital
	NO BID	NO BID	NO BID		
Wilson Construction Co. Inc. 1714 Forest Hills Drive Windber, PA 15963	NO BID	RETURNED		NRM PROJECT Restoration of Selected Brick Veneer and Parapet Wall Sections & Partial Roofing Replacement, Nurses' Building No. 4	BID OPENING DATE January 5, 2011 2:00 PM
WMCC Inc. 1228 State Street West Elizabeth, PA 15088	NO BID	RETURNED			
TMR Roofing Inc. / Jim O-Four Roof. 373 Moween Road Saltsburg, PA 15681	NO BID	RETURNED			
PA Roofing Systems 6013 Meadow Lane, P.O. Box 209 Bakerstown, PA 15007	NO BID	RETURNED			
C&D Waterproofing Corp. 300 Papermill Road Bloomsburg, PA 17815	\$ 139,000.00	\$ 92,000.00			
Arch Masonry, Inc. 1035 Boyce Road, Suite 220 Pittsburgh, PA 15241	\$ 227,500.00	\$ 113,800.00			
Keystone Waterproofing, Inc. 584 Feightner Road Greensburg, PA 15601	\$ 154,749.00	\$ 94,177.00			
Graciano Corporation 209 Sigma Drive, 2nd Floor Pittsburgh, PA 15238-2826	\$ 178,000.00	\$ 129,000.00			
Wilson Restoration, Inc. 4520 New Texas Road Pittsburgh, PA 15239	NO BID	RETURNED			
Allegheny Restoration, Inc. 1517 Park Boulevard Pittsburgh, PA 15216	\$ 153,000.00	\$ 95,000.00			
SkyView Construction, Inc. 4160 Travers Court Chantilly, VA 20151	\$ 129,848.00	\$ 51,123.00			

FOR DIVISION OF PROCUREMENT USE ONLY (WITNESSED OPENINGS)

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APPROVED SIGNATURE _____ BUSINESS MANAGER

PURCHASING AGENT _____

DEPT. PUBLIC WELFARE
FOR DIVISION OF PROCUREMENT USE ONLY (WITNESSED OPENINGS)

Boethia Z...
Christina Z Schroyer
Gregory J. Keefe

TREASURY

TTE BIDS - AWARDED BY BUSINESS MANAGER

STANDARD BID TABULATION
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF PUBLIC WELFARE

NAME OF VENDOR	BASE BID #1	BASE BID #2	BASE BID #3	PROPOSAL NUMBER	FACILITY
				W-0513-0801	Torrance State Hospital
				NRM PROJECT	BID OPENING DATE
				Restoration of Selected Brick Veneer and Parapet Wall Sections & Partial Roofing Replacement, Nurses' Building No. 4	January 5, 2011 2:00 PM
Mariani and Richards, Inc. 2800 Library Road Pittsburgh, PA 15234	\$ 202,580.00	\$ 133,580.00			
McCann Masonry P.O. Box 76 Sheakleyville, PA 16151	NO BID	\$ 49,950.00			
M. L. Bartholomew & Sons, Inc. R.R. 2, Box 2290, Black Bear Drive East Stroudsburg, PA 18301	NO BID	RETURNED			
Fred Galvez 5629 Wilkins Avenue Pittsburgh, PA 15217	NO BID	RETURNED			
J.P.S. Construction Co. Inc. 112 Maple Avenue Glenside, PA 19038	\$ 198,000.00	\$ 105,000.00			

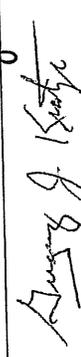
FOR DIVISION OF PROCUREMENT USE ONLY (WITNESSED OPENINGS)

FOR LOCAL AWARDS (BIDS OPENED IN PRESENCE OF)
I CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF BIDS RECEIVED AND AWARDS MADE.

APPROVED SIGNATURE _____ BUSINESS MANAGER

PURCHASING AGENT _____

DEPT. PUBLIC WELFARE


 CHRISTINE A. SCHROYER

 AUGUST J. KORTE

TREASURY

TIE BIDS - AWARDED BY BUSINESS MANAGER

REQUEST TO ADVERTISE SOLICITATION: W-0513-0801

General Information

Department:

Date Prepared: 12/09/10 Type: IFB

Advertisement Agency Construction

Type :

Solicitation# : W-0513-0801 Solicitation Title : Restoration of Brick Veneer & Roofing, Building 4

Description : Remove pre-cast coping stones from existing brick parapet wall. Demolish areas of brick veneer and parapet wall including associated flashing materials. Prep of existing building backup material including steel lintels to accept new masonry, flashing materials and anchoring systems. Construction of new brick veneer wall and parapet wall including required anchors, ties and flashing materials. Re-installation of existing pre-cast coping stones on new parapet wall construction including flashing materials and anchoring system. Removal and disposal of existing roofing including existing flashing and rigid insulation materials from roof. Prep of existing concrete roof deck, existing roof drain assemblies, roof curbs and parapet wall surfaces to accept new roofing materials. Installation of new rigid insulation board, single-ply roofing membrane and membrane flashing materials on designated areas of roof.

Department Information

Department/Agency : Public Welfare Delivery Torrance State Hospital, State Route 1014, Location : Torrance, PA 15779

County (if applicable) : Westmoreland Duration : 120 days

Contact Information

First Name : Christina Last Name: Schmoyer
Phone Number : 717-772-2092 Ext: Email : chschmoyer@state.pa.us

Bid Information

Solicitation Start Date: 12/09/10 Solicitation End Date : 01/05/11
Bid Opening Date : 01/05/11 Bid Opening Time : 2:00 PM
Bid Opening Location: 1401 North 7th Street, Bertolino Building, 2nd Floor, Harrisburg, PA 17105

Is there a Pre-proposal Conference? No. of Flyers: (# of bid versions)

Check here if this Solicitation is in SRM

Amended Date: 12/09/10

Close Window