

**Amoco Building  
Roof Replacement  
715 Grantham Lane  
New Castle, DE**

**OMB/ DFM Contract No. MJ1002000022**

**Cooperson Project # 16076**

**Addendum No.1**

**October 11, 2017**

The following document is intended to amend the project manual and drawings (dated 05-08-17 and issued for 90% review 08-10-17), Issued for competitive bidding for the above referenced project.

The following items were discussed at the Pre- Bid meeting on October 11, 2017. The meeting attendance sign-in sheets are attached:

**Pre- Bid Meeting:**

**PROJECT: Amoco building roof replacement OMB/ DFM contract NO MJ1002000022**

**DATE: October 11, 2017, 10:00 am**

**LOCATION: Amoco Building**

<b>ATTENDEES:</b>	Rob DelCampo	OMB/DFM
	Tom Conlon	OMB/DFM
	Joseph Martini	DMREC-DAQ
	Michael Travers	OMB/DFM
	Rich Wilson	Cooperson Associates (CA)
	Buck High	Tri-State Roofers
	Ian Gregory	Munn Roofing Corp.
	Josh Dean	Jottan, Inc
	Mark Eveland	D.A.Nolt
	Mike Kenefic	GAF
	Dan Papen	Farrell Roofing
	Angela Mariano	P&C Roofing
	Titus Detwiler	Detwiler Roofing
	Nectarios Psaromatis	Paneko Construction
	Jim McKeever	Premier roofing Services
	Rob Mc Mullen	McMullen Roofing
	John M. Peck	Garvey Roark, LLC

ED Laut  
Kevin Moleski

Allied Building Products  
Firestone Performance Rfg.

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1. Bids are due Thursday, October 26, 2017, By 2:00 pm. At Thomas Collins Building, third floor, Suite 1, Dover DE.
2. Bids must be submitted on the forms that are included in the project manual, or in the addenda, if amended.
3. The Sub- Contractors List was discussed and accepted as written. Sub-List must be completed with no blank spaces and no extra lines, even if the prime contractor intends to perform all tasks without any sub-contractors. Each line must be completed. (No NAS, No Dittos, No -, Etc.)
4. The project is a certified wage rates project. Wage rates are in the project manual.
5. Employee drug testing (random Tests) must be done for the prime contractor's personnel and all sub-contractors' personnel. The drug testing affidavit and reporting forms are in the project manual.
6. Contractors are encouraged to visit the roof today, and a second visit is scheduled for Monday October 16, 2017 at 10:00 am. Anyone planning to make the second visit should advise Rob DelCampo In advance.
7. The last day for questions and for issuing addendum will be October 19, 2017 (Thursday).
8. The target date for starting the project on site is ASAP, hopefully mid-November. (weather Permitting)
9. An asbestos survey was done by Harvard Environmental on 3/2/17. There are no Asbestos containing materials in the existing roof composition.
10. There are 5 unit prices listed on the bid form.
11. The bid form lists one contingency allowance of \$10,000.00 which shall be included in the contractors bid.
12. The project includes a base bid plus 5 alternates.
13. Request for substitutions will be entertained only through prime contractors, during the bidding period, and per the project manual specifications.
14. If contractors need access to the building interior, authorization must be given by Rob DelCampo.
15. Normal work hours will be 7:00 am- 3:30 pm Monday through Friday. Requests to be allowed to work on the weekend days will require DFM authorization.
16. The existing roof system being removed is ballasted EPDM on 3" of ISO insulation. The new system will be cold applied, 2ply, SBS modified membrane on cover board over tapered ISO insulation.
17. DFM will provide location for temporary toilet facilities, at the pre-construction meeting.
18. Site and building are State owned and are a "non- Smoking" area, including on the roof.
19. A change in the method of distributing storm water from the roof using existing roof drains and new exterior rain water conductors was discussed. This will be further clarified by addendum No.1.

20. Prior to visiting the roof, the building site was walked and Rob DelCampo further discussed the general scope of the project work.
21. All contractors visited the roof following the tour of the site.
22. Drawing PIC-1 existing condition photos, is included in the bid documents only as an aid to the bidders during the bidding period.

Drawing Modifications and / or Additions:

23. Cover sheet A000:
  - a. Delete Alternates #3,4,and 5 from scope of work
  - b. Revise scope of work as follows:

Base bid-East wing roof, (including roof overhang and soffit repairs, rain water conductors (RWCS) modifications, and specific areas of site grading)

Alternate #1- Center wing Roof, (including roof overhang and soffit repairs, rain water conductors (RWCS) modifications, and specific areas of site grading)

Alternate #2-West Wing Roof, (including roof overhang and soffit repairs, rain water conductors (RWCS) modifications, and specific areas of site grading)
  - c. Drawing List; change A102 to read "Reflected Soffit Plan".

24. Existing Roof Plan E100:

No Changes

25. Proposed Roof Plan A100:

- a. General Notes-Deleted Note #17.
- b. Limit of contract notes, bottom of drawing-

Base Bid Limit of contract add the following-  
Including RWC modifications; and specific areas of site grading.

Alternate No.1 Limit of contract add the following-  
Including RWC modifications; and specific areas of site grading.

Alternate No.2 Limit of Contract and the following-  
Including RWC modifications; and specific areas of site grading.

26. Roof details A101:

- a. Notes (Bottom of Drawing) - change note #3 to read, "See drawing A102 for overhang reflected soffit plan."

27. Reflected Soffit plan and Alternates No 3, 4, and 5, A102:

- a. Change drawing title to read- "Reflected Soffit Plan"
- b. Deleted Alternate No.3
- c. Delete Alternate No.4 note. This description will be added to Alternate No.1.
- d. Deleted Alternate No.5. This description will be added to Alternate No.2.

28. Existing Condition Photos, PIC-1  
No Changes

29. Rain water conductors (RWC) plan, # SK-1, Addendum #1, is Attached

30. A wage Determination Letter covering wage categories to use for excavation and grading from the Department of Labor (DOL) is attached and is included in this addendum.

Project Manual Modifications:

31. Revised Project manual Pages marked "Addendum No.1" are attached

\*\*\*END OF ADDENDUM NO. 1\*\*\*

Respectfully submitted,

**Cooperson Associates**



Richard A. Wilson

**THE ABOVE IS BELIEVED TO BE AN ACCURATE RECORD OF DISCUSSIONS AND DECISIONS. IF ANY ADDITIONS OR CORRECTIONS ARE TO BE MADE TO THIS DOCUMENT, PLEASE NOTIFY COOPERSON ASSOCIATES AT 302-655-1105 WITHIN FIVE (5) DAYS OF RECEIPT. WITHOUT SUCH NOTIFICATION, THIS DOCUMENT WILL BE CONSIDERED A STATEMENT OF FACT.**



STATE OF DELAWARE  
DEPARTMENT OF LABOR  
DIVISION OF INDUSTRIAL AFFAIRS  
4425 NORTH MARKET STREET  
WILMINGTON, DELAWARE 19802

TELEPHONE (302) 761-8200  
FAX (302) 761-6601

October 13, 2017

Via Facsimile and Regular Mail

Mr. Richard Wilson  
Project Manager  
Cooperson Associates  
1504 N. French Street  
Wilmington, DE 19801

Re: Prevailing Wage Classification Determination Request

Dear Mr. Wilson:

I am responding to your request for a classification determination for the Amoco Building Roof Replacement project in New Castle County, DE.

Your request stated there will be a small amount of excavation and grading, with minimal digging. You advised that most work could be accomplished utilizing hand tools, excavating equipment such as a backhoe may be used.

Based upon the information you provided the Department has determined the following:

Employees performing excavation work utilizing hand tools are to be classified as "Laborers".

Employees performing excavation work utilizing any excavation equipment such as a backhoe are to be classified as "Power Equipment Operators".

This determination is directed solely to the parties identified herein. It is based on the unique facts relevant to this matter. It does not constitute precedent and should not be cited as such by future parties.

If you have any questions or I can provide any additional assistance, please do not hesitate to contact me at 302 761 8326.

Sincerely,

A handwritten signature in black ink that reads "Michael Hopkins".

Michael Hopkins  
Labor Law Enforcement Officer  
Michael.Hopkins@state.de.us

cc: Fran Chudzik

**PROJECT: AMOCO BUILDING ROOF REPLACEMENT**

**OMB/DFM CONTRACT NO. MJ1002000022**

**PRE- BID MEETING**

**WEDNESDAY OCT. 11, 2017**

**10:00 A.M. LARGE CONFERENCE ROOM**

Name (Printed)	Representing	Email & Telephone
Rich Wilson	Cooperson Associates	rwilson@coopersonassoc.com (302)655-1105; (302)562-7769
Buck High	TRI-STATE ROOFERS	bhigh01@comcast.net (302)995-7027 - Cell 302 218 2713
Ian Gregory	Munn Roofing Corp.	ian@munnroofingcorp.com 215-997-2258
Josh Dean	Jottan INC.	salesadmin@jottan.com 609 447 6200
MARK EVELAND	D.A. NOLT	MARKSDANOLT.COM 856 753 9333
ROB DEL CAMPO	OMB/DFM	ROBERT.DELCAMPO@STATE.DE.US (302) 739-5444
MIKE KENEFIL	GAF	MKENEFIL@GAF.COM 610 551 2402
Dan Papen	Farrell Roofing	mrtetrick@farrellroofinginc.com 302 678 7663
Michael Travers SR	DFM/OMB	michael.travers@state.de.us 302-270-8641
Angela Mariano	P.C Roofing	angela@pcroofinginc.com 302-322-6767
Titus Detwiler	Detwiler Roofing	titus@detwilerroofing.com 717-200-4000
Nectarios Psaromatis	Paneko Construction	Info@panekoinc.com 347-980-0934

**PROJECT: AMOCO BUILDING ROOF REPLACEMENT  
 OMB/DFM CONTRACT NO. MJ1002000022**

**PRE- BID MEETING  
 WEDNESDAY OCT. 11, 2017  
 10:00 A.M. LARGE CONFERENCE ROOM**

Name (Printed)	Representing	Email & Telephone
Rich Wilson	Cooperson Associates	rwilson@coopersonassoc.com (302)655-1105; (302)562-7769
JIM MCKEEVER	Premier Roofing Services	j.mckeever@premierroofing.com
BOB McMullen	McMullen Roofing	ROBERTM@McMullenRoofingINC.COM
John M. Peck	Garvey Roark, LLC	john@garveyroark.com (610) 738-4661
ED LAUT	ALLIED BUILDING PROD	ed.laut@alliedbuilding.com 610 633 7026
KEVIN MOLESKI	FIRESTONE PERFORMANCE REF ASSOC	KEVINM@PDRREFG.COM 484-678-5835
Joseph Martini	DUREC - DAA	Joseph.Martini@state.de.us 302-324-2020
TOM CONLON	DFM	THOMAS.CONLON@STATE.DE.US

ADDENDUM No. 1

**LIST OF DRAWING SHEETS**

A000	Cover Sheet
E100	Existing Roof Plan
E101	Existing Conditions Photos
A100	Proposed New Roof Plan
A101	New Roof Details
A102	Reflected Soffit Plan



AMOCO BUILDING  
715 GRANTHAM LANE, NEW CASTLE, DELAWARE  
OMB/DFM CONTRACT NO. MJ1002000022

**BID FORM**

**UNIT PRICES**

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

**ADD**

- UNIT PRICE No. 1: Remove Existing Roof Drain. \$ \_\_\_\_\_ per Drain  
Furnish and Install New Roof Drain
- UNIT PRICE No. 2: Remove existing metal deck. \$ \_\_\_\_\_ per square foot  
Furnish and install like kind metal deck
- UNIT PRICE No. 3: Remove existing wood deck. \$ \_\_\_\_\_ per each 4’x8’x5/8”sht. of plywood  
Furnish and install like kind wood deck
- UNIT PRICE No.4: Remove existing wood framing. \$ \_\_\_\_\_ per each 2x12 Wood Joist  
Furnish and install like kind wood framing to suit.,
- UNIT PRICE No.5: Remove existing R19 kraft paper faced batt insulation. \$ \_\_\_\_\_ per Square Foot.  
Furnish and install like kind insulation to suit.

**ALLOWANCE**

**Allowance No. 1:** Contingency Allowance of \$10,000.00 (Included in Base Bid)

**Alternates**

- Alternate No.1: Central Wing Roof \_\_\_\_\_ ADD \$ \_\_\_\_\_  
(Including overhang soffit and fascia repairs, rain water conductor’s modifications; and specific areas of grading.)
- Alternate No.2: West Wing Roof \_\_\_\_\_ ADD \$ \_\_\_\_\_  
(Including overhang soffit and fascia repairs, rain water conductor’s modifications; and specific areas of grading)

AMOCO BUILDING  
715 GRANTHAM LANE, NEW CASTLE, DELAWARE  
OMB/DFM CONTRACT NO. MJ1002000022

**BID FORM**

I/We acknowledge Addendums numbered \_\_\_\_\_ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for thirty (30) days from the date of opening of bids sixty (60) days for School Districts and Department of Education), and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid.

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the contract work within one hundred days (100) calendar days of the Notice to Proceed, in the event that the base bid and all alternate work is awarded. (Base bid east wing 35 days; Alt. No.1 central wing 30 days; Alt. No. 2 west wing 35 days.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By \_\_\_\_\_ Trading as \_\_\_\_\_  
(Individual's / General Partner's / Corporate Name)  
\_\_\_\_\_  
(State of Corporation)

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Witness:** \_\_\_\_\_ **By:** \_\_\_\_\_  
(SEAL) (Authorized Signature)  
\_\_\_\_\_  
(Title)  
**Date:** \_\_\_\_\_

- ATTACHMENTS**  
Sub-Contractor List  
Non-Collusion Statement  
Affidavit(s) of Employee Drug Testing Program  
Bid Security  
(Others as Required by Project Manuals)

AMOCO BUILDING  
715 GRANTHAM LANE, NEW CASTLE, DELAWARE  
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**BID FORM**

**SUBCONTRACTOR LIST**

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor **must be listed for each category** where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the *Owner*, it is **required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.** This form must be filled out completely with no additions or deletions. **Note that all subcontractors listed below must have a signed Affidavit of Employee Drug Testing Program included with this bid.**

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City &amp; State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. Roofing (Cold Applied SBS Modified)	_____	_____	_____
2. Metal Fabrications (Flashings, Fascias)	_____	_____	_____
3. Carpentry (Nailers, Blocking) Framing	_____	_____	_____
4. Sealants (Caulking)	_____	_____	_____
5. Plumbing (Roof Drains)	_____	_____	_____
6. Painting (Fascia/Soffit)	_____	_____	_____
7. Excavation And grading	_____	_____	_____

AMOCO BUILDING  
715 GRANTHAM LANE, NEW CASTLE, DELAWARE  
OMB/DFM CONTRACT NO. MJ1002000022

**BID FORM**  
**NON-COLLUSION STATEMENT**

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date (*to the Office of Management and Budget, Division of Facilities Management*).

All the terms and conditions of "Roof Replacement at The Amoco Building" have been thoroughly examined and are understood.

**NAME OF BIDDER:** \_\_\_\_\_

**AUTHORIZED REPRESENTATIVE (TYPED):** \_\_\_\_\_

**AUTHORIZED REPRESENTATIVE (SIGNATURE):** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**ADDRESS OF BIDDER:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E-MAIL:** \_\_\_\_\_

**PHONE NUMBER:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

**AFFIDAVIT  
OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite that complies with this regulation:

**Contractor/Subcontractor Name:** \_\_\_\_\_

**Contractor/Subcontractor Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes the following:
  - 1. Work covered by the Contract Documents.
  - 2. Use of premises.
  - 3. Owner's occupancy requirements.
  - 4. Specification formats and conventions.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: Roof Replacement at the Amoco Building
- B. Project Location: 715 Grantham Lane  
New Castle, Delaware
- C. Owner: State of Delaware  
OMB/DFM  
540 South DuPont Hwy., Suite 1  
Dover, Delaware 19901
  - 1. Owner's Representative: Robert DelCampo, Construction Projects Coordinator
- D. Architect: Cooperson Associates, LLC  
1504 N. French Street  
Wilmington, Delaware 19801
- E. The Work consists of the following:
  - 1. The Work Includes:
    - Base Bid Scope East wing; Alt. No.1 scope central wing; Alt. No.2 scope west wing.
    - Remove existing 'ballasted EPDM' roofing system down to existing deck including existing metal roof edge fascia.
    - Furnish and install new cold applied, 2 ply SBS modified bituminous membrane roof system including isocyanurate rigid insulation, tapered insulation, and granular cap sheet.
    - Furnish and install new metal roof edge fascia's.
    - Perform roof overhang fascia and soffit repairs. Perform modifications to rain water conductors. Perform grading of specific area of the site at the building perimeter.

Perform grading of specific areas of the site at the building perimeter.

- F. Project will be constructed under a single prime contract, but is separated into base bid and alternates as follow:

Base Bid: East Wing Roof (including roof overhang soffit and fascia repairs, rain water conductor's modifications; specific areas of grading)

Alt. No.1: Central Wing Roof (including roof overhang soffit and fascia repairs; rain water conductor's modifications; specific areas of grading)

Alt. No.2: West Wing Roof (including roof overhang soffit and fascia repairs; rain water conductor's modifications; specific areas of grading)

- G. An asbestos roof inspection was performed by Harvard Environmental on March 2, 2017. No asbestos containing material was detected in the existing roof system materials.

### 1.3 USE OF PREMISES

- A. General: Contractor shall have limited use of premises for construction operations.

1. Owner Occupancy: Allow for Owner occupancy of Project site and use by the public.
2. Driveways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
  - a. Schedule deliveries to minimize use of driveways and entrances.
  - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.

- B. Use of Existing Building: Maintain existing building in a weather tight condition throughout construction period. Repair damage caused by construction operations. Protect building and its occupants during construction period.

### 1.4 OWNER'S OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: Owner will occupy site and existing building during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.
1. Maintain access to existing walkways, corridors, and other occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
  2. Provide covered pedestrian walkways at building entrances as required.

1.5 WORK RESTRICTIONS

- A. Nonsmoking Campus: Smoking is not permitted anywhere on the site except in remote areas away from buildings as designated by the Building occupants, the Dept. of Natural Resources and Environmental Controls (DNREC).

1.6 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format and CSI/CSC's "MasterFormat" numbering system.
1. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
  2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjective mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
    - a. The words "shall", "shall be", or "shall comply with", depending on the context, are implied where a colon (:) is used within a sentence or phrase.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

**END OF SECTION 011000**

STATE OF DELAWARE  
ROOF REPLACEMENT AT THE  
AMOCO BUILDING

ADDENDUM No. 1

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for unit prices.
- B. Related Sections include the following:
  - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.3 DEFINITIONS

- A. Unit price is an amount stated on the Bid Form, as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- C. List of Unit Prices: A list of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

- A. Unit Price No. 1:
  - 1. Description: Remove and replace roof drain.
  - 2. Unit of Measurement: Per Drain
- B. Unit Price No. 2:
  - 1. Description: Remove existing metal deck. Furnish and install new like kind metal deck.
  - 2. Unit of Measurement: Per Square foot
- C. Unit Price No. 3:
  - 1. Description: Remove existing wood deck. Furnish and install new like kind wood deck.
  - 2. Unit of Measurement: per each 4'x8' sheet of 5/8" thick plywood.
- D. Unit Price No. 4:
  - 1. Description: Remove existing wood framing. Furnish and install new like kind wood framing, to suit
  - 2. Unit of Measurement: per each 2"x12" wood joist.

UNIT PRICES

STATE OF DELAWARE  
ROOF REPLACEMENT AT THE  
AMOCO BUILDING

**ADDENDUM No. 1**

- E. Unit Price No.5:
1. Description: remove existing R19 kraft paper faced batt insulation. Furnish and install like kind insulation to suit.
  2. Unit of measurement: per square foot.

**END OF SECTION 012200**

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
  - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.

STATE OF DELAWARE  
ROOF REPLACEMENT AT THE  
AMOCO BUILDING

**ADDENDUM No. 1**

- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Central Wing

1. Remove existing roof system in its entirety down to existing steel deck.
2. Furnish and install new cold applied, 2 ply, SRS modified membrane roof system including rigid insulation and including new formed metal roof edge/ gravel stop.
3. Furnish and install new low separation wall between central wing and west wing where shown..
4. Provide all work appropriate to the alternate No.1. Limit of contract as set forth in A100 general notes #1 through #16.
5. Provide all work appropriate to the alternate limit of contract as set forth in roof overhang soffit and fascia notes #1 thru #9 on drawing A100.
6. Provide all rain water conductors modifications appropriate to the Alternate No.1 limit of contract as set forth on the plan and notes on Addendum No.1 drawing rain water conductors plan –SK-1
7. Perform specific areas of grading at the building perimeter appropriate to the Alternate No.1 limit of contract as set forth on the plan and notes on Addendum No.1 drawing rain water conductors plan –SK-1

B. Alternate No. 2: West Wing

1. Remove existing roof system in its entirety down to existing steel deck.
2. Furnish and install new cold applied, 2 ply, SRS modified membrane roof system including rigid insulation and including new formed metal roof edge/ gravel stop.
3. Provide all work appropriate to the alternate No.2. Limit of contract as set forth in A100 general notes #1 through #16.
4. Provide all work appropriate to the alternate limit of contract as set forth in roof overhang soffit and fascia notes #1 thru #9 on drawing A100
5. Provide all rain water conductors modifications appropriate to the Alternate No.2 limit of contract as set forth on the plan and notes on Addendum No.1 drawing rain water conductors plan –SK-1
6. Perform specific areas of grading at the building perimeter appropriate to the Alternate No.2 limit of contract as set forth on the plan and notes on Addendum No.1 drawing rain water conductors plan –SK-1

END OF SECTION 012300

ALTERNATES

012300 – 2  
Cooperson Associates  
Project No. 16076

SECTION 221423 - STORM DRAINAGE PIPING SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Roof drains.

- Note: The drawings call for existing roof drains to be inspected, cleaned out, and refurbished. In the event that drains need to be replaced, drains complying with the requirements set forth below will be considered acceptable.

- 2. PVC rain water conductors, fittings and accessories.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. Drainage piping specialties shall bear label, stamp, or other markings of specified testing agency.

PART 2 - PRODUCTS

2.1 METAL ROOF DRAINS

- A. Cast-Iron, Large-Sump, General-Purpose Roof Drains for Metal and Wood Deck Installations:

- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following: (Drains to match type, size, and shape of the existing roof drains.)

- a. Josam Company.
    - b. Marathon Roofing Products.
    - c. MIFAB, Inc.
    - d. Smith, Jay R. Mfg. Co.
    - e. Tyler Pipe.
    - f. Watts Water Technologies, Inc.
    - g. Zurn Plumbing Products Group; Specification Drainage Operation.

STATE OF DELAWARE  
ROOF REPLACEMENT AT THE  
AMOCO BUILDING

**ADDENDUM No.1**

2. Standard: ASME A112.6.4, for general-purpose roof drains.
3. Body Material: Cast iron.
4. Dimension of Body: To suit existing concrete deck opening.
5. Combination Flashing Ring and Gravel Stop: Required.
6. Flow-Control Weirs: Not required.
7. Outlet: Bottom.
8. Extension Collars: Required.
9. Underdeck Clamp: Required.
10. Dome Material: Aluminum.

2.2 FLASHING MATERIALS

- A. Copper Sheet: ASTM B 152/B 152M, 12 oz./sq. ft. (3.7 kg/sq. m or 0.41-mm thickness).
- B. Fasteners: Metal compatible with material and substrate being fastened.
- C. Metal Accessories: Sheet metal strips, clamps, anchoring devices, and similar accessory units required for installation; matching or compatible with material being installed.
- D. Solder: ASTM B 32, lead-free alloy.

2.3 PVC rain water conductor materials

- A. PVC pipe: 4" Diameter Round, schedule 40 pipe.
- B. PVC pipe color: White
- C. Accessories and fittings: PVC collars, adaptors, 90° bends, elbows, clean out caps, plugs and caps, and metal anchor straps to suit, and as described on addendum No.1. Drawing rain water conductors plan- SK-1
- D. PVC adhesive as recommended by the pipe manufacturer.
- E. Threaded PVC clean out caps where called for on addendum No.1 drawing rain water conductors plan-SK-1.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install roof drains at existing drain locations according to roof membrane manufacturer's written installation instructions. Roof materials are specified in division 07.
  1. Install flashing collar or flange of roof drain to prevent leakage between drain and adjoining roofing. Maintain integrity of waterproof membranes where penetrated.
- B. Install PVC RWC's where shown and described on addendum No.1. drawing rain water conductors plan- SK-1

3.2 CONNECTIONS

- A. Connect drains to existing storm water piping in accordance with standard accepted plumbing practices and the drain manufacturer's instructions.
- B. Connect PVC RWC's to existing roof drains piping in accordance with standard accepted plumbing practices.

3.3 FLASHING INSTALLATION

- A. Fabricate flashing from single piece of metal unless large pans, sumps, or other drainage shapes are required. Join flashing according to the following if required:
  - 1. Lead Sheets: Burn joints of 6.0-lb/sq. ft. lead sheets, 0.0938-inch thickness or thicker. Solder joints of 4.0-lb/sq. ft. lead sheets, 0.0625-inch thickness or thinner.
  - 2. Copper Sheets: Solder joints of copper sheets.
- B. Install sheet flashing on pipes, sleeves, and specialties passing through or embedded in roofs with waterproof membrane.
  - 1. Pipe Flashing: Sleeve type, matching the pipe size, with a minimum length of 10 inches and with skirt or flange extending at least 8 inches around pipe.
  - 2. Sleeve Flashing: Flat sheet, with skirt or flange extending at least 8 inches around sleeve.
  - 3. Embedded Specialty Flashing: Flat sheet, with skirt or flange extending at least 8 inches around specialty.
- C. Set flashing on roofs in solid coating of bituminous cement.
- D. Secure flashing into sleeve and specialty clamping ring or device.
- E. Fabricate and install flashing and pans, sumps, and other drainage shapes.

3.4 PROTECTION

- A. Protect drains during remainder of construction period to avoid clogging with dirt or debris and to prevent damage from traffic or construction work.

END OF SECTION 221423