

BID ADDENDUM #4

Nanuet Union Free School District
103 Church Street
Nanuet, NY 10954

Nanuet Bond Projects Phase 3

Date: July 7, 2023

NOTICE TO CONTRACTORS

This Addendum issued prior to receipt of Bid shall and does hereby become a part of the Construction Documents for the above project.

All principal Contractors shall be responsible for seeing that their Subcontractors are properly apprised of the contents of this Addendum.

All information contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original Bidding Documents dated **June 6, 2023**, and all previous addenda.

All Contractors shall acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

CLARIFICATIONS:

1. Could you please confirm the ceiling tile # and grid size you would like for the HS: The specifications call out an Armstrong #3252PB ceiling tile (which goes in a 15/16" grid system) but the spec's call for a 9/16" grid system. So this tile doesn't work in the grid system. Also, sheet HS-A832 calls out an Armstrong 'fine fissure' ceiling tile, but the #3252 is an 'optima'.

Response: Provide a 9/16" grid system, Provide ACT tile Optima Tegal. Tile number to be updated to 3257 for a 2x4 tile.

2. In the EC Contract Summary 01-12-04 on page 2 on top in a1 it states that the EC is to "provide all temporary power for all trades. Later on, page 12, in J it states, "each prime contractor shall provide their own temporary power needs for any scheduled electrical utility shutdowns." Then it states to "provide all power, controls, and standby generator requirements for temporary power that might be required during the renovation upgrade for all other prime contractors working during the shutdown." Please clarify if and when the EC will be providing temporary power for all trades and the equipment that must be provided.

Response: EC must provide temporary power for any instances where that the EC needs to shut down building power. EC shall provide all temporary lighting for the project in areas where ceiling will be removed, or lighting fixtures will be removed

3. Can some of the electrical scope of work start before summer 2024?

Response: So long as it does not affect building operation, some of the electrical work may commence during the school year. All work during the school year must be second shift, weekends, or holidays. Contractor may propose a schedule for this work. Approval is at the owners discretion

4. Is there an engineer's estimate for the EC- contract?

Response: This information will not be provided at this time.

5. Can we schedule a site visit for both schools?

Response: There has already been a Prebid walk, but you may schedule additional visits. Please email matt.epstein@jacobs.com for a field visit request.

6. Can we get a cutsheet on the existing panels and mounting supports that we are to remove? Quantity of solar panels we are removing?

Response: Contractor is encouraged to visit the site to quantify solar panels. It is the contractors responsibility to verify these visible conditions before bid

7. Can we get better drawings for the solar system that we are to remove and reinstall?

Response: See attached Nauet HS and Barr Ms solar panel drawings for reference only.

8. Is there any gear/inverters/combiner boxes we need to remove from the roof?

Response: There are definitely combiner boxes and inverters on the roof, quantity unknown.

9. Is the EC responsible to F/I the utility transformer/vault and primary service? Or is that by others?

Response: Refer to BM-E100 Keyed Notes 1, 2 and 3 and BM-E101 Keyed Notes 1 and 2

10. If we are providing primary cable, can you provide the size and spec for it?

Response: 15 kV #2 minimum. O&R will furnish the specs. See links below for O&R Installation Standards:

<https://www.oru.com/-/media/files/oru/documents/for-small-medium-businesses/contractor-resources/generalspecificationsforelectricalinstallations.pdf?la=en>

<https://cdne-dcxprod-sitecore.azureedge.net/-/media/files/oru/documents/for-small-medium-businesses/contractor-resources/specificationsforpadmountedtransformer.pdf?rev=1&hash=9D87A147CEA6C4E9B75E043571C6817C>

11. Drawings indicate that vertical pipe enclosures are to be installed to conceal plumbing piping. The drawings do provide sizes but there are no specs telling us what material is acceptable. Please advise with complete details?

Response: Refer to specification section 238200 Part 2.5.M for pipe enclosure specifications.

12. Specs call for PVC/GRC conduit, can we use PVC SCH40 for primary and secondary feeders at the middle school new service scope of work?

Response: SCH 40 is acceptable per O& R.

13. Drawing HS-E101 note 5: remove 12 fixtures. Please confirm fixtures are already abandoned, no power/disconnect required, we are just bringing lights down for removal. No new light fixtures required in its place?

Response: They appear to have no power to them, hanging lights with partial conduit connecting them, no wire is visible

14. Detail G5/ HS E102, are breakers assumed to be existing in panel PP-NFR or do we need to include new breakers for the new circuits shown?

Response: The circuits are new and new breakers will be required

15. For the utility transformer pad called out, please confirm it's a pad and not a vault required per O&R specs? ?

Response: O & R Red Book indicated a pad.

16. On page 8 of Addendum 3 it looks like there are new bid forms, are these going to be sent out in the new Addendum?

Response: Updated bid forms for GC-01 and MC-01 have been included in this addendum

17. The hatch for LVT flooring indicates that the LVT only gets installed on the the perimeter of each classroom. Please confirm what material gets applied in the middle of the classrooms where there is no hatch indicated. See attached drawing for reference

Response: Drawing HS-A832 has been updated to show the LVT hatch to be installed in the middle of the classrooms.

18. Please confirm that the interior steel at work for roof dunnage is not in the GC scope of work

Response: This response confirms that the steel dunnage is not in the GC scope of work. Per Specification section 01 12 05-3.1-Q, all roof top and under roof steel support for HVAC equipment is by MC-01.

includes dunnage for HVAC equipment

19. Will the OCP Policy be enforced for all sub contractors?

Response:. Unless the subcontractor is a named insured (not additional insured) by the prime contractor. Each subcontractor will be subject to all insurance requirements listed within the AIA 232. This includes the OCP policy

20. Engineer to clarify which unit ventilator belongs to which outdoor heat pump unit as it is not indicated on the drawings?

Response:. Refer to refrigerant piping diagrams and follow pipe routing system outlined from each outdoor heat pump to each indoor unit ventilator to associated which heat pump each unit ventilator is connected to.

CHANGES TO SPECIFICATIONS:

1. Specification Section **23 09 23 - DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC**
 - a. The sequence of operations is included, starting at Part 3.11.
2. Specification Section **01 23 00 - ALTERNATES**
 - a. Deleted lines 4 & 5 concerning the removal and reinstallation of photovoltaic panels removed from Contract GC-01

REVISIONS TO DRAWINGS:

1. **HS-A832**
 - a. Drawing updated to show classroom LVT-1 horizontal installation.
2. **BM-M601**
 - a. Added unit ventilator heating coil piping connection Detail K4



215 West 40th Street, 15th Floor
New York, New York 10018

646.435.0660 Office

ksq.design

ENCLOSURES:

00 30 00 – BE-01 BID FORM

00 30 01 – GC-01 BID FORM

00 30 02 – EC-01 BID FORM

00 30 03 – MC-01 BID FORM

01 23 00 - ALTERNATES

23 09 23 - DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC

SOLAR ENERGY SYSTEMS Reference Drawings

SHEETS

GENERAL	CIVIL	STRUCT	ARCH	MECH	ELEC	PLUMB	ABATEMENT
			HS-832	BM-M601			

END OF BID ADDENDUM No.5

SECTION 00 30 00 – BE BID FORM

CONTRACT 1 – BUILDING ENVELOPE CONSTRUCTION PROPOSAL (BE-01):

Bidding Firm Name

To The Board of Education,

The undersigned hereby proposes to furnish all labor, materials, devices, appliances, supplies, equipment, services and other facilities necessary to complete all of the work of the above referenced Contract for the Nanuet Union Free School District, Nanuet, New York, as required by, and in accordance with, the provisions of the Instructions to Bidders, the Supplementary Instructions to Bidders, the Conditions of the Contract, the Drawings and Specifications, all as prepared by KSQ Design designated as Nanuet Union Free School District Phase 3 Projects, dated **June 6, 2023** and that, if this Proposal is accepted, the Undersigned agrees to enter into an Agreement with the owner to perform this work for the lump sum of:

NANUET HIGH SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

BARR MIDDLE SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

TOTAL LUMP SUM BID (This sum is to be used as the official bid amount):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

ALLOWANCES:

The undersigned Contractor has included the Allowance(s) as specified in Section 01 2100 in their Base Bid.

UNIT PRICE:

BE BID FORM

00 3000 - 1 of 3

Unit Price BE-01 #1: Roof Caulk Abatement \$_____ Dollars \$ No Cents

Unit Price BE-01 #2: Roof System complete demo and replacement \$_____ Dollars \$ No Cents

Unit Price BE-01 #3: Replacement of Metal Coping \$_____ Dollars \$ No Cents

ALTERNATES: NONE

ADDENDA:

The undersigned acknowledges the receipt of the following addenda:

Addendum Number	Date	Addendum Number	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The Undersigned understands that the Owner reserves the right to accept or reject any or all proposals, but that if notice of the acceptance of the above Proposal is sent via United States Postal Service or any other overnight carrier, with signature required, to the Undersigned within sixty (60) days after the formal opening of Bids or anytime thereafter before this Proposal is withdrawn, the Undersigned will enter into, execute, and deliver a Contract within five (5) days after the date of said notification.

TIME OF COMPLETION:

The Undersigned agrees in the Base Bid to complete the work as per the Milestone Schedule provided in Specifications.

CLOSING: (signature) _____

DATE: _____

BY: _____

TITLE: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

CONTACT PERSON: _____

E-MAIL: _____

Submit Bid Form in duplicate.

END OF SECTION 00 3000

SECTION 00 3001 - GC BID FORM

CONTRACT 1 – GENERAL CONSTRUCTION PROPOSAL (GC):

Bidding Firm Name

To The Board of Education,

The undersigned hereby proposes to furnish all labor, materials, devices, appliances, supplies, equipment, services and other facilities necessary to complete all of the work of the above referenced Contract for the Nanuet Union Free School District, Nanuet, New York, as required by, and in accordance with, the provisions of the Instructions to Bidders, the Supplementary Instructions to Bidders, the Conditions of the Contract, the Drawings and Specifications, all as prepared by KSQ Design designated as Nanuet Union Free School District Phase 3 Projects, dated **June 6, 2023** and that, if this Proposal is accepted, the Undersigned agrees to enter into an Agreement with the owner to perform this work for the lump sum of:

NANUET HIGH SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

BARR MIDDLE SCHOOL (For bid leveling purposes)::

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

TOTAL LUMP SUM BID (This sum is to be used as the official bid amount):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid

ALLOWANCES:

The undersigned Contractor has included the Allowance(s) as specified in Section 01 2100 in their Base Bid.

UNIT PRICE:

Unit Price GC-#1: Abatement of ACM Floor Tile (VAT) and Mastic: \$_____ Dollars \$ No Cents

Unit Price GC- #2: Abatement of ACM Pipe Insulation (including elbows):

\$_____ Dollars \$ No Cents

Unit Price GC-#3: Abatement of Transite paneling \$_____ Dollars \$ No Cents

ALTERNATES:

Add Alternate GC-01 Alt #1: \$_____ Dollar \$ No Cents

Add Alternate GC-01 Alt #2: \$_____ Dollar \$ No Cents

Add Alternate GC-01 Alt #4: \$_____ Dollar \$ No Cents

Add Alternate GC-01 Alt #5: \$_____ Dollar \$ No Cents

ADDENDA:

The undersigned acknowledges the receipt of the following addenda:

Addendum Number	Date	Addendum Number	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The Undersigned understands that the Owner reserves the right to accept or reject any or all proposals, but that if notice of the acceptance of the above Proposal is sent via United States Postal Service or any other overnight carrier, with signature required, to the Undersigned within sixty (60) days after the formal opening of Bids or anytime thereafter before this Proposal is withdrawn, the Undersigned will enter into, execute, and deliver a Contract within five (5) days after the date of said notification.

TIME OF COMPLETION:

The Undersigned agrees in the Base Bid to complete the work as per the Milestone Schedule provided in Specifications.

CLOSING: (signature) _____

DATE: _____

BY: _____

TITLE: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

CONTACT PERSON: _____

E-MAIL: _____

Submit Bid Form in duplicate.

END OF SECTION 00 3001

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SECTION 00 3002 - EC BID FORM

CONTRACT 1 – ELECTRICAL CONSTRUCTION PROPOSAL (EC-01):

Bidding Firm Name

To The Board of Education,

The undersigned hereby proposes to furnish all labor, materials, devices, appliances, supplies, equipment, services and other facilities necessary to complete all of the work of the above referenced Contract for the Nanuet Union Free School District, Nanuet, New York, as required by, and in accordance with, the provisions of the Instructions to Bidders, the Supplementary Instructions to Bidders, the Conditions of the Contract, the Drawings and Specifications, all as prepared by KSQ Design designated as Nanuet Union Free School District Phase 3 Projects, dated **June 6, 2023** and that, if this Proposal is accepted, the Undersigned agrees to enter into an Agreement with the owner to perform this work for the lump sum of:

NANUET HIGH SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

BARR MIDDLE SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

TOTAL LUMP SUM BID (This sum is to be used as the official bid amount):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

ALLOWANCES:

The undersigned Contractor has included the Allowance(s) as specified in Section 01 21 00 in their Base Bid.

UNIT PRICE:

Unit Price EC-#1: Abatement of ACM wire insulation \$_____ Dollars \$ No Cents

ALTERNATES:

Add Alternate EC-01 Alt #1: NOT USED

Add Alternate EC-01 Alt #2: \$ _____ Dollar \$ No Cents

Add Alternate EC-01 Alt #3: \$ _____ Dollar \$ No Cents

Add Alternate EC-01 Alt #4: \$ _____ Dollar \$ No Cents

Add Alternate EC-01 Alt #5: \$ _____ Dollar \$ No Cents

ADDENDA:

The undersigned acknowledges the receipt of the following addenda:

Addendum Number	Date	Addendum Number	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The Undersigned understands that the Owner reserves the right to accept or reject any or all proposals, but that if notice of the acceptance of the above Proposal is sent via United States Postal Service or any other overnight carrier, with signature required, to the Undersigned within sixty (60) days after the formal opening of Bids or anytime thereafter before this Proposal is withdrawn, the Undersigned will enter into, execute, and deliver a Contract within five (5) days after the date of said notification.

TIME OF COMPLETION:

The Undersigned agrees in the Base Bid to complete the work as per the Milestone Schedule provided in Specifications.

CLOSING: (signature) _____

DATE: _____

BY: _____

TITLE: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

CONTACT PERSON: _____

E-MAIL: _____

Submit Bid Form in duplicate.

END OF SECTION 00 3002

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SECTION 00 3003 - MC BID FORM

CONTRACT 1 – MECHANICAL CONSTRUCTION PROPOSAL (MC-01):

Bidding Firm Name

To The Board of Education,

The undersigned hereby proposes to furnish all labor, materials, devices, appliances, supplies, equipment, services and other facilities necessary to complete all of the work of the above referenced Contract for the Nanuet Union Free School District, Nanuet, New York, as required by, and in accordance with, the provisions of the Instructions to Bidders, the Supplementary Instructions to Bidders, the Conditions of the Contract, the Drawings and Specifications, all as prepared by KSQ Design designated as Nanuet Union Free School District Phase 3 Projects, dated **June 6, 2023** and that, if this Proposal is accepted, the Undersigned agrees to enter into an Agreement with the owner to perform this work for the lump sum of:

NANUET HIGH SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

BARR MIDDLE SCHOOL (For bid leveling purposes):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

TOTAL LUMP SUM BID (This sum is to be used as the official bid amount):

Dollars & No Cents

(\$_____.00)
herein referred to as the Base Bid.

ALLOWANCES:

The undersigned Contractor has included the Allowance(s) as specified in Section 01 21 00 in their Base Bid.

UNIT PRICE:

Unit Price MC-#1: Abatement of ACM Floor Tile (VAT) AND Mastic: \$_____ Dollars \$ No Cents

Unit Price MC-#2: Abatement of ACM Pipe Insulation (including elbows):

\$_____Dollars \$ No Cents

ALTERNATES: NONE NOTED

ADDENDA:

The undersigned acknowledges the receipt of the following addenda:

Addendum Number	Date	Addendum Number	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The Undersigned understands that the Owner reserves the right to accept or reject any or all proposals, but that if notice of the acceptance of the above Proposal is sent via United States Postal Service or any other overnight carrier, with signature required, to the Undersigned within sixty (60) days after the formal opening of Bids or anytime thereafter before this Proposal is withdrawn, the Undersigned will enter into, execute, and deliver a Contract within five (5) days after the date of said notification.

TIME OF COMPLETION:

The Undersigned agrees in the Base Bid to complete the work as per the Milestone Schedule provided in Specifications.

CLOSING: (signature) _____

DATE: _____

BY: _____

TITLE: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

CONTACT PERSON: _____

E-MAIL: _____

Submit Bid Form in duplicate.

END OF SECTION 00 3003

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SECTION 01 23 00 - 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. This 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. 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: Modify 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 modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section identifying each Alternate by number and describes basic changes to be incorporated into the Work only when that Alternate is made part of the Work by specific provision in the Owner/Contractor Agreement. 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. CONTRACT GC-01-GENERAL CONSTRUCTION WORK:

1. GC-01 ALT #1: The contractor shall state the total amount to be added to the base bid to remove existing, furnish and install all labor, equipment and material required to supply and install new flooring and room painting in room #217 Tech Lab Workroom and 219 Tech Lab as called out on Architectural drawings HS-AD103, HS-A103, HS-A801, HS-A832 and HS-A900 and Abatement drawings HS-ASB-1 noted with ALT #1.
2. GC-01 ALT #2: The contractor shall state the total amount to be added to the base bid to remove existing, furnish and install all labor, equipment and material required to supply and install new ceiling and light fixture in room #217 Tech Lab Workroom and 219 Tech Lab as called out on Architectural drawings HS-AD113, HS-A11 and HS-A900 noted with ALT #2.
3. GC-01 ALT #3: The contractor shall state the total amount to be added to the base bid to Convert existing Storage Room 222A into an Office as called out on Architectural drawings HS-AD103, HS-AD113, HS-A103, HS-AD113 and HS-A832 and Abatement drawings HS-ASB-1 noted with ALT #3.

B. CONTRACT EC-01-ELECTRICAL CONSTRUCTION WORK:

1. EC-01 ALT #1: NOT USED
2. EC-01 ALT #2: The contractor shall state the total amount to be added to the base bid to remove existing, furnish and install all labor, equipment and material required to supply and install light fixtures in #217 Tech Lab Workroom and 219 Tech Lab as called out on Electrical drawings HS-E103 noted with ALT #2.
3. EC-01 ALT #3: The contractor shall state the total amount to be added to the base bid to remove existing, furnish and install all labor, equipment and material required to supply and install light fixture in existing Storage Room 222A converted to Office as called out on Electrical drawings HS-E103 noted with ALT #3.
4. EC-01 ALT #4: The contractor shall state the total amount to be added to the base bid to remove and salvage existing photovoltaics panels as called out on Electrical drawings BM-E103 and HS-E104 noted with ALT #4.
5. EC-01 ALT #5: The contractor shall state the total amount to be added to the base bid to reinstall existing salvaged photovoltaics panels as called out on Electrical drawings BM-E103 and HS-E104 noted with ALT #5.

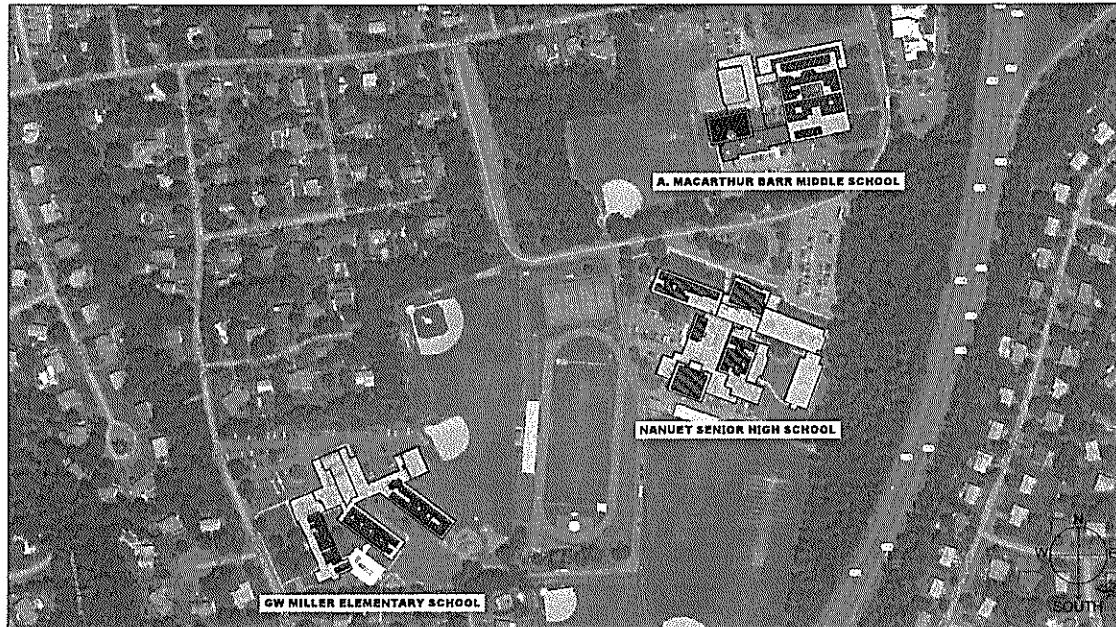
END OF SECTION 012300

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SOLAR ENERGY SYSTEMS, LLC

ROOF-TOP SOLAR ELECTRIC (PHOTOVOLTAIC SOLAR PANEL) PROJECT (AS-BUILT)

NANUET SCHOOL DISTRICT - NANUET, NY 10954



GW MILLER ELEMENTARY SCHOOL 50 Balmert Road, Nanuet, New York 10954
ROOF-MOUNTED SOLAR ELECTRIC (PHOTOVOLTAIC) GENERATION SYSTEM 193.2 kWdc; 140 kWac
Grid-connected PV system (without battery backup) To be connected in parallel to Orange & Rockland Service
Total of [840] modules: Trina TSM-230 PC/PA14 - 230-watt PV modules Wired in (70) series strings of (12) modules
PV ARRAY TILT: 10° PV ARRAY AZIMUTH: 157°/216°
All paralleled strings to be fed into (10) SOLLECTRA PV 14TL INVERTERS
Proposed Inverter location: See S-001
System Point of Interconnection with Utility: Ground Floor Electrical Room
SED Project #60-01-08-03-0-001-018

A. MACARTHUR BARR MIDDLE SCHOOL 143 Church Street, Nanuet, New York 10954
ROOF-MOUNTED SOLAR ELECTRIC (PHOTOVOLTAIC) GENERATION SYSTEM 191.36 kWdc; 160 kWac
Grid-connected PV system (without battery backup) To be connected in parallel to Orange & Rockland Service
Total of [832] modules: Trina TSM-230 PC/PA14 - 230-watt PV modules Wired in (64) series strings of (13) modules
PV ARRAY TILT: 10° PV ARRAY AZIMUTH: 166°
All paralleled strings to be fed into (16) SOLLECTRA PV 14TL INVERTERS
Proposed Inverter location: See S-002
System Point of Interconnection with Utility: Basement Electrical Room
SED Project #60-01-08-03-0-002-016

NANUET SENIOR HIGH SCHOOL 103 Church Street, Nanuet, New York 10954
ROOF-MOUNTED SOLAR ELECTRIC (PHOTOVOLTAIC) GENERATION SYSTEM 209.20 kWdc; 154 kWac
Grid-connected PV system (without battery backup) To be connected in parallel to Orange & Rockland Service
Total of (718) modules: Trina TSM-230 PC/PA14 - 230-watt PV modules Wired in (54) series strings of (13) modules
PV ARRAY TILT: 10° PV ARRAY AZIMUTH: 200°
All paralleled strings to be fed into (11) SOLLECTRA PV 14TL INVERTERS
Proposed Inverter location: See S-003
System Point of Interconnection with Utility: Basement Electrical Room
SED Project #60-01-08-03-0-003-024

LIST OF INCLUDED DRAWINGS

1.	T-001.02	TITLE SHEET
2.	G-001.02	GENERAL NOTES
3.	S-001.02	ROOF PLAN (ELEMENTARY SCHOOL)
4.	S-002.02	ROOF PLAN (MIDDLE SCHOOL)
5.	S-003.02	ROOF PLAN (HIGH SCHOOL)
6.	S-004.02	PV MOUNTING SYSTEM DETAIL
7.	S-005.02	ELECTRICAL AREA (ELEMENTARY SCHOOL)
8.	S-006.02	ELECTRICAL AREA (MIDDLE SCHOOL)
9.	S-007.02	ELECTRICAL AREA (HIGH SCHOOL)
10.	E-001.02	ELECTRICAL TITLE SHEET
11.	E-002.02	ELECTRICAL LABELING REQUIREMENTS
12.	E-201.02	ELECTRIC 3-LINE SCHEMATIC (ELEMENTARY SCHOOL)
13.	E-202.02	ELECTRIC 3-LINE SCHEMATIC (MIDDLE SCHOOL)
14.	E-203.02	ELECTRIC 3-LINE SCHEMATIC (HIGH SCHOOL)
15.	E-400.02	ELECTRICAL DETAIL SHEET

NOTES:

- DESIGN CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND NEW YORK STATE EDUCATION DEPARTMENT BUILDING STANDARDS.



SOLAR PHOTOVOLTAIC

TOTAL PROJECT SIZE:

584.76 kWp dc

(454 kWp ac)

REVISIONS	DATE	COMMENTS
1	01/27/2016	LAYOUT UPDATE FROM RADIANT MANUFACTURERS
2	02/22/2016	UPDATES ON E-201 AND E-202 AND THE PAGE NUMBERING
3	04/01/2016	
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ENGINEER OF RECORD

Jason M. Szrom, PE
Solar Energy Systems, LLC
1205 Manhattan Avenue, Suite: 1210
Brooklyn, New York 11222
Phone: (718) 389-1545 Fax: (718) 389-2820
NY Professional Engineer License: 086352

THIS DRAWING IS PROPERTY OF SOLAR ENERGY SYSTEMS, LLC
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PROJECT

Nanuet School District
Nanuet, NY 10954

SOLAR PV ELECTRIC SYSTEM: TITLE SHEET

DATE:	FEB-23-2016
PROJECT No.:	13-012619-014
DRAWING BY:	B.P.
CHECK BY:	JMS
DWG No.:	T-001.02
CAD FILE No.:	011419

SCOPE OF WORK

THE SCOPE OF THESE DRAWINGS IS TO PROVIDE DETAIL FOR THE ROOF-MOUNTED PHOTOVOLTAIC (SOLAR PANEL) SYSTEM AT 50 BLAUVELT ROAD, 143 CHURCH STREET AND 103 CHURCH STREET, NANUET, NEW YORK 10954.

THE SCOPE OF THIS WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM. ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE NY STATE EDUCATION DEPARTMENT, LOCAL AMJ.

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE AND PLANTING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ROADS AND DRIVEWAYS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FENCES AND BARRIERS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SIGNAGE AND MARKINGS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ELECTRICAL AND MECHANICAL SYSTEMS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING PAVING AND SURFACING.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING CURBS AND GUTTERS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SIDEWALKS AND STAIRS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND SHRUBS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LIGHTING AND SIGNALS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SECURITY SYSTEMS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TELEPHONE AND CABLE LINES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WATER AND SEWER LINES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING GAS LINES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING OIL AND FUEL LINES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AIR CONDITIONING AND HEATING SYSTEMS.
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CODES

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DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

RECORD DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

DELIVERY, STORAGE AND SEQUENCING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

ADDITIONAL WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

INSURANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

MEANS AND METHODS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

SCHEDULING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

EXISTING BUILDING MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

OSHA REGULATIONS (STANDARDS-29CFR)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

GUARANTEE

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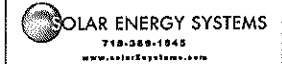
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SOLAR PHOTOVOLTAIC

TOTAL PROJECT SIZE:

**584.76 kWp dc
(454 kWp ac)**

REVISIONS	DATE	COMMENTS
1	01/22/2015	LAYOUT UPDATE FROM MANUFACTURERS
2	01/22/2015	UPDATES FOR 400 AND 500 AND THE FACE NUMBERING
3	01/22/2015	
4	01/22/2015	
5	01/22/2015	
6	01/22/2015	
7	01/22/2015	
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9	01/22/2015	
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100	01/22/2015	

ENGINEER OF RECORD
Jason M. Szrom, PE
Solar Energy Systems, LLC
1205 Manhattan Avenue, Suite: 1210
Brooklyn, New York 11222
Phone: (718) 389-1545 Fax: (718) 389-2820
NY Professional Engineer License: 088352

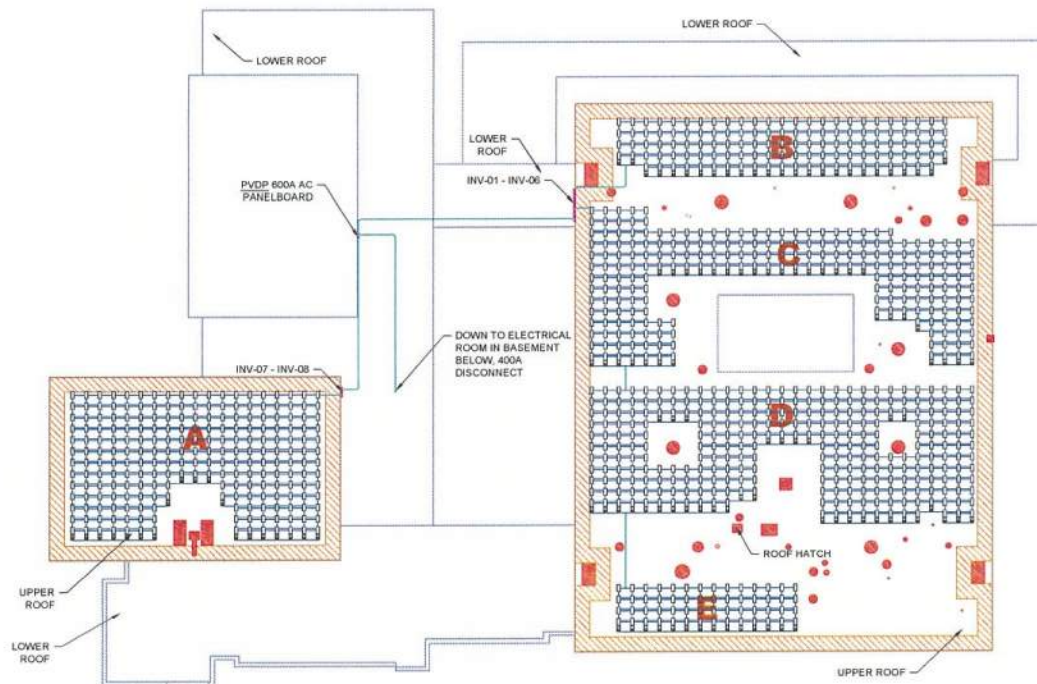
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PROJECT
Nanuet School District
Nanuet, NY 10954

SOLAR PV ELECTRIC SYSTEM:
GENERAL NOTES

DATE: FEB-19-2014
 PROJECT No. 12.012.013.014
 DRAWING BY: AP
 CHECK BY: JMS
 DWG No. **G-001.02**
 CAD FILE No. 01 of 16

SUB-ARRAY	A	B	C	D	E	TOTAL
# of PV MODULES	208	117	195	260	52	832
# of SERIES STRINGS	16	9	15	20	4	64
kWdc (at 230W)	47.84	26.91	44.85	59.80	9.20	191.36



1
S-002 ROOF PLAN
SCALE 7/8" = 1'-0"



KEY:

- EXISTING ROOF OBSTRUCTIONS
- 6'-0" ACCESS PATH FROM EDGE OF ROOF

SOLAR PHOTOVOLTAIC
BUILDING SYSTEM SIZE:
191.36 kWp dc
(160 kWp ac)

REVISIONS	#	BY	DATE	COMMENTS
	01	BT	01/25/2016	LAYOUT UPDATE FROM MANUFACTURERS
	02	BT	04/11/2016	UPDATE ON S-006 AND S-007 AND THE PAGE NUMBERING

ENGINEER OF RECORD:

Jason M. Szrom, PE
Solar Energy Systems, LLC
1205 Manhattan Avenue, Suite: 1210
Brooklyn, New York 11222
Phone: (718) 389-1545 Fax: (718) 389-2820
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PROJECT

Nanuet School District
Nanuet, NY 10954

**A MACARTHUR BARR MIDDLE SCHOOL
SOLAR PV ELECTRIC SYSTEM:
ROOF PLAN**

DATE: FEB-25-2014
PROJECT No. 13-012,013,014
DRAWING BY: RP
CHK BY: JMS
DWG No. **S-002.02**
CAD FILE No. 04 of 15

SUB-ARRAY	A	B	C	D	E	TOTAL
# of PV MODULES	176	154	55	154	176	715
# of SERIES STRINGS	16	14	5	14	16	65
kWdc (at 230W)	49.28	43.12	15.4	43.12	49.28	200.20



1 - ROOF PLAN
S-003 - SCALE 1/4" = 1'-0"



KEY:

- EXISTING ROOF OBSTRUCTIONS
- 6'-0" ACCESS PATH FROM EDGE OF ROOF



SOLAR PHOTOVOLTAIC
BUILDING SYSTEM SIZE:
200.20 kWp dc
(154 kWp ac)

REVISIONS	#	BY	DATE	COMMENTS
	01	ST	01/20/2016	LAYOUT UPDATE FROM RACKING MANUFACTURERS
	02	ST	04/01/2016	UPDATES ON S-005 AND S-007 AND THE PAGE NUMBERING

ENGINEER OF RECORD:

Jason M. Szrom, PE
Solar Energy Systems, LLC
1205 Manhattan Avenue, Suite: 1210
Brooklyn, New York 11222
Phone: (718) 389-1545 Fax: (718) 389-2820
NY Professional Engineer License: 088352

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PROJECT

Nanuet School District
Nanuet, NY 10954

NANUET SENIOR HIGH SCHOOL
SOLAR PV ELECTRIC SYSTEM:
ROOF PLAN

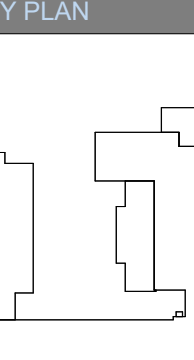
DATE: FEB-25-2014
PROJECT No: 13.012.013.014
DRAWING BY: RP
CHK BY: JMS
DWG No: **S-003.02**
CAD FILE No: 09.07.15



DATE:	FEB-25-2014
PROJECT No.	12.012.012.014
DRAWING BY:	BP
CHK BY:	JMS
DWG No.	
S-004.02	
CAD FILE No.	06 of 15

High School
103 Church St.
Nanuet, NY 10954

Barr Middle School
50 Blauvelt Rd #1
Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date
1	BID ADDENDUM #5	7/7/23

ISSUED: BID SET ISSUANCE

DATE: 6/6/2023

SCALE: As indicated

SHEET NAME:
PARTIAL SECOND FLOOR
INTERIOR FINISH AND
FURNITURE PLANS

SHEET NUMBER:

HS-A832

