

**PROFESSIONAL SERVICES
AGREEMENT BETWEEN
NOVA CONSULTANTS, INC.
AND THE CITY OF ANN ARBOR FOR
FINAL SOLAR DESIGNS AT MULTIPLE CITY FACILITIES**

This agreement ("Agreement") is between the CITY OF ANN ARBOR, a Michigan municipal corporation, 301 E. Huron St. Ann Arbor, Michigan 48104 ("City"), and NOVA CONSULTANTS, INC., a(n) Michigan Corporation, 21580 Novi Road, Suite 300, Novi, Michigan 48375 ("Contractor"). City and Contractor agree as follows:

1. DEFINITIONS

Administering Service Area means **Administration**.

Contract Administrator means Missy Stults, acting personally or through any assistants authorized by the Administrator/Manager of the Administering Service Area/Unit.

Deliverables means all documents, plans, specifications, reports, recommendations, and other materials developed for and delivered to City by Contractor under this Agreement.

Effective Date means the date this Agreement is signed by the last party to sign it.

Services means Final Solar Designs at Multiple City Facilities as further described in Exhibit A.

2. DURATION

- A. The obligations of this Agreement shall apply beginning on the Effective Date and this Agreement shall remain in effect until satisfactory completion of the Services unless terminated as provided for in this Agreement.

3. SERVICES

- A. Contractor shall perform all Services in compliance with this Agreement. The City retains the right to make changes to the quantities of Services within the general scope of the Agreement at any time by a written order. If the changes add to or deduct from the extent of the Services, the compensation shall be adjusted accordingly. All such changes shall be executed under the conditions of the original Agreement.
- B. Quality of Services under this Agreement shall be of the level of quality performed by persons regularly rendering this type of service. Determination of acceptable quality shall be made solely by the Contract Administrator.
- C. Contractor shall perform Services in compliance with all applicable statutory, regulatory, and contractual requirements now or hereafter in effect. Contractor shall also comply with and be subject to City policies applicable to independent contractors.

- D. Contractor may rely upon the accuracy of reports and surveys provided by the City, except when a defect should have been apparent to a reasonably competent professional or when Contractor has actual notice of a defect.

4. INDEPENDENT CONTRACTOR

- A. The parties agree that at all times and for all purposes under the terms of this Agreement each party's relationship to any other party shall be that of an independent contractor. Each party is solely responsible for the acts of its own employees, agents, and servants. No liability, right, or benefit arising out of any employer-employee relationship, either express or implied, shall arise or accrue to any party as a result of this Agreement.
- B. Contractor does not have any authority to execute any contract or agreement on behalf of the City, and is not granted any authority to assume or create any obligation or liability on the City's behalf, or to bind the City in any way.

5. COMPENSATION OF CONTRACTOR

- A. The total amount of compensation paid to Contractor under this Agreement shall not exceed \$135,000.00, which shall be paid upon invoice by Contractor to the City for services rendered according to the schedule in Exhibit B. Compensation of Contractor includes all reimbursable expenses unless a schedule of reimbursable expenses is included in an attached Exhibit B. Expenses outside those identified in the attached schedule must be approved in advance by the Contract Administrator.
- B. Payment shall be made monthly following receipt of invoices submitted by Contractor and approved by the Contract Administrator, unless a different payment schedule is specified in Exhibit B.
- C. Contractor shall be compensated for additional work or Services beyond those specified in this Agreement only when the scope of and compensation for the additional work or Services have received prior written approval of the Contract Administrator.
- D. Contractor shall keep complete records of work performed (e.g. tasks performed, hours allocated, etc.) so that the City may verify invoices submitted by Contractor. Such records shall be made available to the City upon request and submitted in summary form with each invoice.

6. INSURANCE/INDEMNIFICATION

- A. Contractor shall procure and maintain from the Effective Date or Commencement Date of this Agreement (whichever is earlier) through the conclusion of this Agreement, such insurance policies, including those required by this Agreement, as will protect itself and the City from all claims for bodily injury, death, or property damage that may arise under this Agreement; whether the act(s) or omission(s) giving rise to the claim were made by Contractor, Contractor's subcontractor, or anyone employed by Contractor or Contractor's subcontractor directly or indirectly. Prior to commencement of work

under this Agreement, Contractor shall provide documentation to the City demonstrating Contractor has obtained the policies and endorsements required by this Agreement. Contractor shall provide such documentation in a form and manner satisfactory to the City. Currently, the City requires insurance to be submitted through its contractor, myCOI. Contractor shall add registration@mycoitracking.com to its safe sender's list so that it will receive necessary communication from myCOI. When requested, Contractor shall provide the same documentation for its subcontractors.

- B. All insurance providers of Contractor shall be authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company's Key Rating Guide of "A-" Overall and a minimum Financial Size Category of "V". Insurance policies and certificates issued by non-authorized insurance companies are not acceptable unless approved in writing by the City.
- C. To the fullest extent permitted by law, Contractor shall indemnify, defend, and hold the City and its officers, employees, and agents harmless from all suits, claims, judgments, and expenses, including attorney's fees, resulting or alleged to result, from an act or omission by Contractor or Contractor's employees or agents occurring in the performance or breach of this Agreement, except to the extent that any suit, claim, judgment, or expense are finally judicially determined to have resulted from the City's negligence, willful misconduct, or failure to comply with a material obligation of this Agreement. The obligations of this paragraph shall survive the expiration or termination of this Agreement.
- D. Contractor is required to have the following minimum insurance coverage:
 - 1. Professional Liability Insurance or Errors and Omissions Insurance protecting Contractor and its employees - \$1,000,000.
 - 2. Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 04 13 or current equivalent. The City of Ann Arbor shall be an additional insured. There shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy.

\$1,000,000	Each occurrence as respect Bodily Injury Liability or Property Damage Liability, or both combined
\$2,000,000	Per project General Aggregate
\$1,000,000	Personal and Advertising Injury
 - 3. Worker's Compensation Insurance in accordance with all applicable state and federal statutes; also, Employers Liability Coverage for:

Bodily Injury by Accident - \$500,000 each accident
Bodily Injury by Disease - \$500,000 each employee
Bodily Injury by Disease - \$500,000 each policy limit
 - 4. Motor Vehicle Liability Insurance equivalent to, as a minimum, Insurance Services Office form CA 00 01 10 13 or current equivalent. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. The City of Ann Arbor shall be an additional insured. There shall be no added

exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. The limits of liability shall be \$1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.

5. Umbrella/Excess Liability Insurance shall be provided to apply in excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of \$1,000,000.
- E. Commercial General Liability Insurance and Motor Vehicle Liability Insurance (if required by this Agreement) shall be considered primary as respects any other valid or collectible insurance that the City may possess, including any self-insured retentions the City may have; and any other insurance the City does possess shall be considered excess insurance only and shall not be required to contribute with this insurance. Contractor agrees to waive any right of recovery by its insurer against the City for any insurance listed herein.
- F. Insurance companies and policy forms are subject to approval of the City Attorney, which approval shall not be unreasonably withheld. Documentation must provide and demonstrate an unconditional and unqualified 30-day written notice of cancellation in favor of the City of Ann Arbor. Further, the documentation must explicitly state the following: (a) the policy number(s); name of insurance company; name(s), email address(es), and address(es) of the agent or authorized representative; name and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions, which may be approved by the City in its sole discretion; (c) that the policy conforms to the requirements specified. Contractor shall furnish the City with satisfactory certificates of insurance and endorsements prior to commencement of any work. If any of the above coverages expire by their terms during the term of this Agreement, Contractor shall deliver proof of renewal and/or new policies and endorsements to the Administering Service Area/Unit at least ten days prior to the expiration date.

7. WAGE AND NONDISCRIMINATION REQUIREMENTS

- A. Nondiscrimination. Contractor shall comply, and require its subcontractors to comply, with the nondiscrimination provisions of MCL 37.2209. Contractor shall comply with the provisions of Section 9:158 of Chapter 112 of Ann Arbor City Code and assure that Contractor's applicants for employment and employees are treated in a manner which provides equal employment opportunity.
- B. Living Wage. If Contractor is a "covered employer" as defined in Chapter 23 of Ann Arbor City Code, Contractor must comply with the living wage provisions of Chapter 23 of Ann Arbor City Code, which requires Contractor to pay those employees providing Services to the City under this Agreement a "living wage," as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Agreement are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person

contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

8. REPRESENTATIONS AND WARRANTIES BY CONTRACTOR

- A. Contractor warrants that the quality of Services shall conform to the level of quality performed by persons regularly rendering this type of service.
- B. Contractor warrants that it has all the skills, experience, and professional and other licenses necessary to perform the Services.
- C. Contractor warrants that it has available, or will engage at its own expense, sufficient trained employees to provide the Services.
- D. Contractor warrants that it has no personal or financial interest in this Agreement other than the fee it is to receive under this Agreement. Contractor certifies that it will not acquire any such interest, direct or indirect, which would conflict in any manner with the performance of the Services. Contractor certifies that it does not and will not employ or engage any person with a personal or financial interest in this Agreement.
- E. Contractor warrants that it is not, and shall not become overdue or in default to the City for any contract, debt, or any other obligation to the City, including real and personal property taxes. Further Contractor agrees that the City shall have the right to set off any such debt against compensation awarded for Services under this Agreement.
- F. Contractor warrants that its bid or proposal for services under this Agreement was made in good faith, that it arrived at the costs of its proposal independently, without consultation, communication, or agreement for the purpose of restricting competition as to any matter relating to such costs with any competitor for these services; and no attempt has been made or will be made by Contractor to induce any other person or entity to submit or not to submit a bid or proposal for the purpose of restricting competition.
- G. The person signing this Agreement on behalf of Contractor represents and warrants that they have express authority to sign this Agreement for Contractor and agrees to hold the City harmless for any costs or consequences of the absence of actual authority to sign.
- H. The obligations, representations, and warranties of this section 8 shall survive the expiration or termination of this Agreement.

9. OBLIGATIONS OF THE CITY

- A. The City shall give Contractor access to City properties and project areas as required to perform the Services.
- B. The City shall notify Contractor of any defect in the Services of which the Contract

Administrator has actual notice.

10. ASSIGNMENT

- A. Contractor shall not subcontract or assign any portion of any right or obligation under this Agreement without prior written consent from the City. Notwithstanding any consent by the City to any assignment, Contractor shall at all times remain bound to all warranties, certifications, indemnifications, promises, and performances required of Contractor under the Agreement unless specifically released from the requirement in writing by the City.
- B. Contractor shall retain the right to pledge payments due and payable under this Agreement to third parties.

11. TERMINATION OF AGREEMENT

- A. If either party is in breach of this Agreement for a period of 15 days following receipt of notice from the non-breaching party with respect to the breach, the non-breaching party may pursue any remedies available against the breaching party under applicable law, including the right to terminate this Agreement without further notice. The waiver of any breach by any party to this Agreement shall not waive any subsequent breach by any party.
- B. The City may terminate this Agreement, on at least 30 days' advance notice, for any reason, including convenience, without incurring any penalty, expense, or liability to Contractor, except the obligation to pay for Services actually performed under the Agreement before the termination date.
- C. Contractor acknowledges that if this Agreement extends for several fiscal years, continuation of this Agreement is subject to appropriation of funds through the City budget process. If funds are not appropriated or otherwise made available, the City shall have the right to terminate this Agreement without penalty at the end of the last period for which funds have been appropriated or otherwise made available by giving written notice of termination to Contractor. The Contract Administrator shall give Contractor written notice of such non-appropriation within 30 days after the Contract Administrator has received notice of such non-appropriation.
- D. The expiration or termination of this Agreement shall not release either party from any obligation or liability to the other party that has accrued at the time of expiration or termination, including a payment obligation that has already accrued and Contractor's obligation to deliver all Deliverables due as of the date of termination of the Agreement.

12. REMEDIES

- A. This Agreement does not, and is not intended to, impair, divest, delegate, or contravene any constitutional, statutory, or other legal right, privilege, power, obligation, duty, or immunity of the parties.
- B. All rights and remedies provided in this Agreement are cumulative and not exclusive,

and the exercise by either party of any right or remedy does not preclude the exercise of any other rights or remedies that may now or subsequently be available at law, in equity, by statute, in any other agreement between the parties, or otherwise.

- C. Absent a written waiver, no act, failure, or delay by a party to pursue or enforce any right or remedy under this Agreement shall constitute a waiver of that right with regard to any existing or subsequent breach of this Agreement. No waiver of any term, condition, or provision of this Agreement, whether by conduct or otherwise, shall be deemed or construed as a continuing waiver of any term, condition, or provision of this Agreement. No waiver by either party shall subsequently affect the waiving party's right to require strict performance of this Agreement.

13. NOTICE

All notices and submissions required under this Agreement shall be delivered to the respective party in the manner described herein to the address stated below or such other address as either party may designate by prior written notice to the other. Notices given under this Agreement shall be in writing and shall be personally delivered, sent by next day express delivery service, certified mail, or first class U.S. mail postage prepaid, and addressed to the person listed below. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; (2) the next business day when notice is sent next day express delivery service or personal delivery; or (3) three days after mailing first class or certified U.S. mail.

If Notice is sent to Contractor:

NOVA Consultants, inc.
ATTN: Sunil Agrawal
21580 Novi Road, Suite 300
Novi, Michigan 48375

If Notice is sent to the City:

City of Ann Arbor
ATTN: Missy Stults
301 E. Huron St.
Ann Arbor, Michigan 48104

With a copy to: The City of Ann Arbor
ATTN: Office of the City Attorney
301 East Huron Street, 3rd Floor
Ann Arbor, Michigan 48104

14. CHOICE OF LAW AND FORUM

This Agreement will be governed and controlled in all respects by the laws of the State of Michigan, including interpretation, enforceability, validity and construction, excepting the principles of conflicts of law. The parties submit to the jurisdiction and venue of the Circuit Court for Washtenaw County, State of Michigan, or, if original jurisdiction can be established, the United States District Court for the Eastern District of Michigan, Southern Division, with respect to any action arising, directly or indirectly, out of this Agreement or the performance or breach of this

Agreement. The parties stipulate that the venues referenced in this Agreement are convenient and waive any claim of non-convenience.

15. OWNERSHIP OF DOCUMENTS

Upon completion or termination of this Agreement, all Deliverables prepared by or obtained by Contractor as provided under the terms of this Agreement shall be delivered to and become the property of the City. Original basic survey notes, sketches, charts, drawings, partially completed drawings, computations, quantities, and other data shall remain in the possession of Contractor as instruments of service unless specifically incorporated in a Deliverable, but shall be made available, upon request, to the City without restriction or limitation on their use. The City acknowledges that the documents are prepared only for the Services. Prior to completion of the Services the City shall have a recognized proprietary interest in the work product of Contractor.

16. CONFLICTS OF INTEREST OR REPRESENTATION

Contractor certifies it has no financial interest in the Services to be provided under this Agreement other than the compensation specified herein. Contractor further certifies that it presently has no personal or financial interest, and shall not acquire any such interest, direct or indirect, which would conflict in any manner with its performance of the Services under this Agreement.

Contractor agrees to advise the City if Contractor has been or is retained to handle any matter in which its representation is adverse to the City and to obtain the City's consent therefor. The City's prospective consent to Contractor's representation of a client in matters adverse to the City, as identified above, will not apply in any instance where, as the result of Contractor's representation, Contractor has obtained sensitive, proprietary, or otherwise confidential information of a non-public nature that, if known to another client of Contractor, could be used in any such other matter by the other client to the material disadvantage of the City. Each matter will be reviewed on a case by case basis.

17. SEVERABILITY OF PROVISIONS

Whenever possible, each provision of this Agreement will be interpreted in a manner as to be effective and valid under applicable law. However, if any provision of this Agreement or the application of any provision to any party or circumstance is prohibited by or invalid under applicable law, that provision will be ineffective to the extent of the prohibition or invalidity without invalidating the remainder of the provisions of this Agreement or the application of the provision to other parties and circumstances.

18. EXTENT OF AGREEMENT

This Agreement, together with all Exhibits constitutes the entire understanding between the City and Contractor with respect to the subject matter of the Agreement and it supersedes, unless otherwise incorporated by reference herein, all prior representations, negotiations, agreements, or understandings, whether written or oral. Neither party has relied on any prior representations in entering into this Agreement. No terms or conditions of either party's invoice, purchase order, or other administrative document shall modify the terms and conditions of this Agreement, regardless of the other party's failure to object to such terms or conditions. This Agreement shall

be binding on and shall inure to the benefit of the parties to this Agreement and their permitted successors and permitted assigns and nothing in this Agreement, express or implied, is intended to or shall confer on any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Agreement. This Agreement may only be altered, amended, or modified by written amendment signed by Contractor and the City. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement.

19. ELECTRONIC TRANSACTION

The parties agree that signatures on this Agreement may be delivered electronically or by facsimile in lieu of a physical signature and agree to treat electronic or facsimile signatures as binding.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURE PAGES FOLLOW]

NOVA CONSULTANTS, INC.

By: DocuSigned by:
Sunil Agrawal
8CA11423F6B34D1...

Name: Sunil Agrawal

Title: Program Director

Date: 11/24/2023

CITY OF ANN ARBOR

By: DocuSigned by:
Milton Dohoney Jr.
82ADAD5DD386491...

Name: Milton Dohoney Jr.

Title: City Administrator

Date: 11/28/2023

Approved as to form:

By: DocuSigned by:
Atleen Kaur
827308896F804DD...

Name: Atleen Kaur

Title: City Attorney

Date: 11/27/2023

(Signatures continue on following page)

CITY OF ANN ARBOR

DocuSigned by:
By: Christopher Taylor
9E354955DB164DA...

Name: christopher Taylor

Title: Mayor

Date: 11/28/2023

DocuSigned by:
By: Jacqueline Beaudry
5CFB24F59BD041E...

Name: Jacqueline Beaudry

Title: City Clerk

Date: 11/28/2023

SECTION II - SCOPE OF SERVICES

1. Objective

The City of Ann Arbor is seeking proposals from qualified vendors for the design and engineering of Solar PV Systems to be located at up to sixteen City sites. These systems should be designed to optimize power production and offset or reduce grid electricity use/electricity bills within the space and logistical constraints specified in this RFP. Where applicable, the proposal should layout the battery potential for the site to be islanded in case of a 72-hour utility outage and estimate the costs of installation of those systems. Additionally, where a carport is determined to be the best mechanism to install solar, EV chargers shall be included into the design. Each individual site's solar potential has been estimated and ranges from 5kW to 300kW, totaling somewhere between 7.15kw to 1.2MW of new rooftop, carport, and ground-mounted solar.

The sixteen sites under consideration are:

1. Ann Arbor City Hall (Rooftop or Carport Solar + Storage)
2. Ann Arbor Fire Station 1 (Rooftop Solar + Storage)
3. Ann Arbor Fire Station 3 (Ground Mounted Solar + Storage)
4. Ann Arbor Justice Center (Rooftop Solar + Storage)
5. Bryant Community Center (Rooftop Solar + Storage)
6. Buhr Park (Carport Solar + EV Charger + Storage)
7. Southeast Area Park (Carport Solar + EV Charger + Storage)
8. West Park (Carport Solar + EV Charger + Storage)
9. Veterans Park (Carport Solar + EV Charger + Storage)
10. Allmendinger Park (Rooftop Solar + Storage)
11. Argo Canoe Livery (Rooftop Solar + Storage)
12. Gallup Park Maas Shelter (Rooftop Solar)
13. Gallup Park Fast Shelter (Rooftop Solar)
14. Gallup Park (Carport Solar + EV Chargers + Storage)
15. Wheeler Service Center (Carport Solar + EV Chargers + Storage)
16. Water Recovery Plant (Rooftop Solar + Carport Solar + EV Chargers + Storage)

2. Requirements

The selected proposer(s) will be required to prepare complete designs, working drawings, specifications, and shop drawings for the Project, and furnish the services of all necessary supervisors, architects, engineers, designers, drafts-people, and other personnel necessary for the preparation of those drawings and specifications required for the Project. In addition, the selected proposer(s) will be responsible for filing all necessary paperwork with applicable governmental entities and utilities, including interconnection paperwork with DTE Electric Company ("DTE"), the utility that provides electrical services to the City of Ann Arbor and, as necessary, working

with neighboring jurisdictions on any and all permitting requirements. All final deliverables, inclusive of designs, will be owned by the City for use at its discretion.

In addition to cost estimates to finalize designs, interested proposers must provide preliminary designs and good faith estimates of the cost to construct the final solar systems at each of the sixteen City sites, independently, as well as what the cost would be to design and build the full suite of sixteen projects (factoring in any potential discounts due to scale and potential collaboration with the U-M).

3. Scope of Work

The selected proposer shall:

1. Review any drawings, specifications, reports, etc. provided by City staff on the proposed project.
2. Work directly with City staff, including the City's Facilities Manager and Energy Coordinator, to verify the viability of the 16 City sites for solar installation. If a site is deemed unviable, the City reserves the right to replace that site with an alternative that would have potential for a solar system, assuming the estimated cost to the City would not differ significantly or the parties agree to an alternative cost.
3. Hold kick-off meetings with staff responsible for, or residing, at each of the 16 City sites.
4. Prepare complete draft designs, drawings, and specifications for solar, storage, and where relevant, electric vehicle charging stations at each of the 16 sites. All designs must comply with the Minimum Technical Specifications described in Attachment B.
5. Review designs with City staff and make changes as recommended.
6. Prepare complete final designs, drawings, and specifications for solar, storage, and where relevant, electric vehicle charging stations at each of the 16 sites. All final designs must comply with the Minimum Technical Specifications described in Attachment B.
7. Secure building permits, interconnection agreements, and all other paperwork necessary to move forward with the solar installation at the 16 City sites.
8. Provide the City all final designs, drawings, and specifications so that the City can proceed with hiring a construction firm to install final designs.

9. If relevant, a representative of a proposer might need to make presentations at public meetings or “open houses” to acquaint City residents, Commissions, and City Council with the projects and their overall alignment with the City’s climate and sustainability goals.

10. As this is a time sensitive project, interested proposers should plan for bi-weekly meetings with City staff to keep the project advancing.

**FEE PROPOSAL FOR
City of Ann Arbor
RFP # 23-15
Solar and Energy Storage Installations for City Sites
Updated November 3, 2023 following meeting on October 31, 2023**

Submitted To

Simi Barr
Senior Analyst - Municipal Operations
Office of Sustainability and Innovations
City of Ann Arbor
301 E Huron St, 5th Floor
Ann Arbor, MI 48104

Submitted By

NOVA Consultants, Inc.
21580 Novi Road, Suite 300
Novi, MI 48375

NOVA Consultants hourly rates

Position/Classification	Year 2023	Year 2024	Year 2025
Program Director – Sunil Agrawal	\$140.00	\$145.60	\$151.42
Program Manager – Sachit Verma	\$135.00	\$140.40	\$146.02
Senior Project Manager – Jeff Eckhout	\$131.25	\$136.50	\$141.96
Electrical Engineer – Clayton Cox, Jerry Young	\$110.25	\$114.66	\$119.25
Civil/Structural Engineer – Paul Baluja, Mark Mahajan	\$110.25	\$114.66	\$119.25
Field Inspector – John Gembarksi, John Witte	\$78.75	\$81.90	\$85.18
AutoCAD – Rick Marble, Bruce Dickieson	\$68.25	\$70.98	\$73.82
Admin – Joe Ruffing, Sushma Agrawal	\$36.75	\$38.22	\$39.75

While recent inflation has been approximately 7% to 8%, NOVA is restricting annual increases to a very low 4% to cover increasing operational costs incurred by the company for gas, utilities, insurance, healthcare and employee benefits.

Preliminary designs for the solar facilities have been provided earlier. The associated good-faith estimates for **final design only** are presented in accordance with the design strategy discussed during the meeting at City Hall on October 31, 2023.

Design Strategy

1. City Hall/Justice Center to be designed for solar PV system only
2. Bicentennial Park PV system size has been restored to the original proposal following e-mail discussions on November 2, 2023. Battery storage to be eliminated.
3. Fire Station No. 6 to be designed for battery storage only
4. Fire Station No. 1 and No. 3 to be “battery-ready”. Possibility to include battery storage installation as part of this project to be evaluated based on budget, schedule, and other factors.
5. All sites to be equipped with EV chargers

Scope of work

1. Site visit(s) by NOVA personnel.
2. 3D scan of roof areas and electrical room to ensure accurate drawings
3. Assess suitability of various onsite locations for installation of PV system(s) with regard to shading, roof condition, size, and other factors.
4. Record details of existing electrical service, such as service voltage, peak demand, and annual usage.
5. Analyze site electric usage data and determine optimum PV size.

6. Evaluate the suitability of existing electrical switchgear to receive the power generated from the proposed PV system for use at the facility
7. Discuss PV system design and layout options for ballasted rooftop systems.
8. Perform structural analysis of the roof to confirm it can take the additional loads expected from the installation of the PV system. NOVA assumes that roof structural drawings are available to assist in the structural calculations.
9. Preliminary design of the PV system using Helioscope.
10. Energy generation modeling using software such as Helioscope.
11. Review requirements from the local electric utility for grid interconnection
12. Submit interconnection application to DTE and follow up as necessary
13. Design Engineering (Submittals at 60%, 90%, 100% completion) that meet all state and local AHJ requirements
14. Design will address MIOSHA requirements for accessing existing equipment;
15. Consider Michigan/Regional/US sourced materials as feasible and prudent;
16. Meetings, conference calls, etc. as needed.

Cost Proposal

NOVA can provide the above scope of work for a fixed fee of \$135,000. This includes all deliverables, meetings, travel, etc. associated with the scope of work mentioned above. This engineering cost is estimated to be about 5% of the project budget of approximately \$2,500,000. Changes to scope of work will be billed on a time and materials (T&M) basis per the hourly rates above. Mileage will be billed at applicable IRS rates currently in effect.

NOVA understands that there will be another contract for Owner's Engineer Services including but not limited to:

1. construction administration
2. project oversight
3. field inspection
4. witness startup
5. prepare punch lists
6. project closeout
7. training
8. as-built drawings
9. meetings, conference calls as needed