

Business Operations/Resource Management Subcommittee meeting

Thursday, December 19, 2024 6:00 PM

Meeting Access: BO/RM Subcommittee (12/19/24 at 6 p.m.) Web:

<https://zoom.us/j/92393628395> Dial In: (929) 205-6099 Meeting ID: 923 9362 8395, 3 Brush Hill Road, New Fairfield, CT 06812

I. CALL TO ORDER

II. APPROVAL OF THE MINUTES

II.A. November 7, 2024 - Regular

III. INFORMATION ITEMS

III.A. Monthly Summary of Budget vs. Actual Expenditure/Encumbrances vs. Projected Year-End Expenditure/Encumbrances Report for FY 2024-25 at November 30, 2024

III.B. Utilities Update FY26

III.C. Town Solar RFP

III.D. Food Service

III.E. Capital Improvement Plan

III.F. Shared Services

IV. ACTION ITEMS

IV.A. Unexpended Funds

V. OTHER

VI. ADJOURNMENT

BOARD OF EDUCATION, NEW FAIRFIELD, CT
Business Operations/Resource Management Subcommittee Meeting

Name of Subcommittee: BO/RM Meeting type: Regular
Date of Meeting: 11/7/24 Minutes submitted by: K. LaTourette
Members present: Greg Flanagan, Ed Sbordone, Kim LaTourette
Members absent: Amy Johnson
Other attendees: Ken Craw, Carrie DePuy
Place of meeting: New Fairfield Community Room, 33 Route 37, New Fairfield, CT

Meeting called to order: 6 p.m.

Motion: To switch Informational and Action Items

Made by: Greg Flanagan

Seconded by: Kim LaTourette

Recording of vote: All in favor

II. Approval of Minutes

A. October 17, 2024 – Regular – Approved by consensus

III. ACTION ITEMS

A. FY 25 Budget Transfers - We are using some money from the SPED contingency for a one-on-one aide and for summer support. We do have some money left with the contingency. We were able to save money on VoAg tuition and technology equipment to be used for the STRIDES rental, the bus trailer, and other technology software. Carrie is able to get rid of the negatives in those accounts.

Motion: To bring the budget transfers to the full Board for consideration

Made by: Greg Flanagan

Seconded by: Ed Sbordone

Recording of vote: All in favor

B. New Fairfield Middle School Space Utilization Feasibility Study - There will be a short presentation to the full board for this. This is phase 2 of this project. We were already able to complete the STEAM room and the media center. Our strings are still in a hallway, gifted and talented is teaching on a cart, and chorus is in the old cafeteria (this is far, so some instructional time is lost). We have a do not exceed of \$10,000 to figure out how to best use the spaces to accommodate and get these teachers into classrooms.

Motion: To bring the feasibility study to the full board for further discussion

Made by: Greg Flanagan

Seconded by: Kim LaTourette

Recording of vote: All in favor

IV. INFORMATION ITEMS

A. Monthly Summary of Budget vs. Actual Expenditure/Encumbrances vs. Projected Year-End Expenditure/Encumbrances Report for FY 2024-25 at October 31, 2024

We have spent a little bit more than last year. Phil Ross' Buildings and Grounds account has had to be used due to circumstances coming up. We also encumbered the STRIDES excess. Athletics is always negative due to gate receipts right now. We are using new software with HR to broaden the horizon for hiring. We are always keeping an eye on SPED, electricity, oil, and we are hoping to lock in.

B. Building Project Update

Propane piping is done. We need the Fire Marshall to come in and inspect it. This is for the culinary space and the kitchen. We are still on hold for the elementary school playground - waiting to hear from the vendor. The abatement at the old CONS site went well and demolition has begun. It should be completed by next week.

C. Shared Services Update

There may be a restructuring of town employees in the Finance Department. The BOE pays half of the personnel salaries.

V. OTHER - None

VI. ADJOURNMENT

Motion to adjourn: Made by: Greg Flanagan
Recording of vote: Aye – Unanimous

Seconded by: Kim LaTourette
Meeting adjourned at: 6:27 p.m.

New Fairfield Board of Education
Summary of Budget vs. Actual for Payroll & Non-Payroll Accounts
Fiscal 2024-2025 as of November 30, 2024

	Approved Budget	2024-2025 Adjusted Budget	Year-to-Date Expenditure	Percent Expended	Current Encumbrances	Percent Encumbered	2024-2025 Remaining Unexpended	Percent Committed
Regular Education - Non-Payroll								
2000 Consolidated	0	0	0		0		-	
3000 Elementary School	145,982	145,982	71,148	48.7%	21,833	15.0%	53,001	63.7%
4000 Middle School	67,618	67,618	26,248	38.8%	21,791	32.2%	19,579	71.0%
5000 High School	251,869	251,869	100,548	39.9%	81,496	32.4%	69,826	72.3%
5500 Athletics	188,340	188,340	107,417	57.0%	140,888	74.8%	(59,966)	131.8%
6000 Districtwide	2,060,333	2,022,688	1,134,058	56.1%	256,903	12.7%	631,728	68.8%
6100 Board of Education	35,600	44,850	42,277	94.3%	2,473	5.5%	100	99.8%
6200 Central Office	155,245	157,140	70,995	45.2%	8,762	5.6%	77,384	50.8%
6300 Fiscal Services	348,902	348,902	103,244	29.6%	2,814	0.8%	242,845	30.4%
6400 Human Resources	57,617	73,617	52,452	71.2%	10,474	14.2%	10,692	85.5%
6500 Technology	722,237	700,585	422,086	60.2%	80,974	11.6%	197,525	71.8%
6600 Pupil Transportation	1,613,167	1,628,167	8,664	0.5%	1,615,128	99.2%	4,375	99.7%
6700 Business Machines	148,898	148,898	79,175	53.2%	144,241	96.9%	(74,517)	150.0%
6800 Utilities	1,110,581	1,110,581	360,755	32.5%	330,969	29.8%	418,858	62.3%
7000 Curriculum	303,269	303,269	183,200	60.4%	36,522	12.0%	83,547	72.5%
7001 Enrichment Services	7,988	7,988	4,296	53.8%	0	0.0%	3,692	53.8%
9000 Buildings & Grounds	760,185	770,685	329,467	42.7%	358,460	46.5%	82,758	89.3%
Subtotal - Reg Ed - Non-P/R	7,977,831	7,971,179	3,096,026	38.8%	3,113,726	39.1%	1,761,427	77.9%
Special Education - Non-Payroll								
8001 SPED - Admin/Central	192,839	108,836	27,318	25.1%	9,468	8.7%	72,049	33.8%
8002 SPED - Contracted Svcs	414,003	414,003	345,223	83.4%	125,599	30.3%	(56,819)	113.7%
8003 SPED - Out of District	2,478,172	2,478,172	781,818	31.5%	1,135,863	45.8%	560,491	77.4%
8004 SPED - Transportation	1,513,186	1,513,186	341,131	22.5%	782,743	51.7%	389,313	74.3%
8005 SPED - Program Costs	75,744	82,396	45,900	55.7%	43,448	52.7%	(6,952)	108.4%
8006 PPS - Other Programs	24,791	24,791	4,129	16.7%	2,856	11.5%	17,806	28.2%
Subtotal - Special Ed - Non-P/R	4,698,735	4,621,384	1,545,518	33.4%	2,099,977	45.4%	975,889	78.9%
TOTAL NON-PAYROLL	12,676,566	12,592,563	4,641,545	36.9%	5,213,703	41.4%	2,737,316	78.3%
TOTAL PAYROLL	29,630,890	29,714,893	9,698,142	32.6%	16,277,847	54.8%	3,738,904	87.4%
TOTAL OPERATING BUDGET	42,307,456	42,307,456	14,339,687	33.9%	21,491,550	50.8%	6,476,219	84.7%

REQUEST FOR PROPOSAL FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM (the “Winning Bidder”).

The Town of New Fairfield, Connecticut is soliciting proposals from solar energy providers (each “Developer”) to design, permit, install, finance, own, operate and maintain two photovoltaic systems (each a “system” or together, the “Systems”) at a certain Town site a portion of which the Town anticipates leasing/licensing to the winning bidder (the “Winning Bidder”). The Town would like to lease its rooftop at the New Fairfield High School to a Developer to own, operate and maintain the System for a long-term lease agreement. Visit the Town of New Fairfield website at www.newfairfield.org or the DAS website <https://portalct.gov/DAS/CTSource/BidBoard> there you will see the bid package. If you have any questions, call the Purchasing Agent at 203-312-5653. The Town of New Fairfield is an Equal Opportunity Employer and affirmative action purchaser, and bids from all vendors, including those from enterprises owned by minorities and women, are encouraged to submit qualifications.

Dated December 9, 2024

TOWN OF NEW FAIRFIELD
FINANCE DEPARTMENT
Municipal & School Financial Services
4 Brush Hill Road
New Fairfield, CT. 06812
Bid # 2024-25SO03

TOWN OF NEW FAIRFIELD, CT

REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM

I. INTRODUCTION:

The Town of New Fairfield, CT (the "Town") is soliciting proposals from solar energy providers (each a "Developer") to design, permit, install, finance, own, operate and maintain two photovoltaic systems (each a "System" or together, the "Systems") at a certain Town site a portion of which the Town anticipates leasing/licensing to the winning bidder (the "Winning Bidder").

The Town would like to lease available acreage at its capped landfill at 33 Bigelow Road (the "Landfill") located in New Fairfield, Connecticut to one Developer to own, operate and maintain the System for the duration of a long-term lease agreement. Further, the Town would like to lease its rooftop at the New Fairfield High School at 54 Gillotti Road (the "High School") to a Developer to own, operate and maintain the System for a long-term lease agreement. A parcel map of the Landfill is attached, and preliminary electrical drawings of a potential array on the High School roof are also attached. Note these preliminary electrical drawings are solely to provide Developers with information that may or may not be useful to them in preparing Proposals. Developers may propose different sized Systems in different locations on the roof.

Developers can either bid on one or both Systems.

II. GENERAL INFORMATION & RFP INSTRUCTIONS:

a. Key Dates:

Date	Action
12/09/2024	Release of RFP
12/20/2024	Site Visit 10:30 at 33 Bigelow Rd
01/10/2025	Questions Due
01/17/2025	Proposals Due by 10:00am
01/30/2025	Selection of the Winning Bidder

b. Site Visits:

The site visits for prospective Developers is scheduled as shown in the chart above. All interested Developers will meet at 33 Bigelow

TOWN OF NEW FAIRFIELD, CT

REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM

Road, New Fairfield, Connecticut at 10:30 a.m. Following the site visit at the Landfill, the visit will continue at the High School. Attendance at these site visits is strongly encouraged. If you are unable to attend the Site Visits, the Consultant may, at its sole discretion, allow and accompany a Developer on a visit on another date.

c. Right to Amend or Terminate this Request for Proposals (this "RFP"):

The Town may in its sole discretion, clarify, modify, amend, or terminate this RFP (with or without notice to the Developers) if the Town determines in its sole discretion that it is in the Town's best interests. The Town reserves all rights to reject any or all proposals and to negotiate lease and other terms and conditions in the best interests of the Town. It is the sole responsibility of Developers to consult with the Town's website for updates to this RFP.

d. Non-Binding:

Any lease shall be preceded by a notice of award and letter of intent or option agreement and thereafter will be contingent and non-binding until (i) all approvals and letters of support are received from applicable local, state and federal regulatory agencies, boards and authorities, (ii) final, financeable interconnection service agreements are fully executed with the utility and (iii) all other pertinent written documents and contracts are signed by the Town and the Winning Bidder. By bidding into this RFP, Developer explicitly agrees that this section supersedes anything that may be contradictory in an ensuing letter of intent or option agreement.

If the Winning Bidder attempts to alter terms of a proposal or negotiate with the Town in bad faith or does not pursue all non-ministerial permits or contracts (leases, etc.) in a diligent and timely manner or pay interconnection-related payments on time, it shall be subject to termination at the Town's discretion and the Town shall have the authority to select another Developer or not.

Further, if the Winning Bidder withdraws its proposal and its participation in the processes contemplated herein or if the Town terminates the Winning Bidder, then the Town and the Winning Bidder hereby agree that the Town shall have the right within thirty (30) days following the withdrawal or termination to purchase all of the interconnection rights (if any), studies and applications submitted by the Winning Bidder along with any surveys or professional drawings (and the electronic data) and permits received, at the reasonable, verifiable, third-party out-of-pocket

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costs incurred by the Winning Bidder. The Winning Bidder shall take all necessary steps with the utility or local, state or federal board or agency to assign the rights to such permits, interconnection rights, etc. to the Town.

e. Suitability of Sites:

The Town would like to lease available areas at the Sites to a Developer to own, operate and maintain the Systems for the duration of long-term lease agreements. The Town makes no representation as to the suitability of the Sites for the System either from the standpoint of buildability, interconnection or qualification for any state or federal incentive program. The suitability of the Sites for solar is the sole responsibility of the Developers, and the Town will make the final decision as part of the lease as to whether any proposed locations on the Sites or size of the Systems is acceptable to the Town. It is the Town's understanding, however, that System on the High School roof does have a clear area on the roof for a System, as well as circuit breakers in the distribution system for future connection and empty conduits from the distribution system to the potential future System area. Further, the 150A-3P circuit breaker is installed on the main switchboard for future interconnection. These details should be confirmed and verified by the Developers at the Site Visits. Proposals should be based only upon information verified at the Site Visits.

f. Proposal Submission Instructions:

Developers should submit their proposals electronically preferably in a single .pdf format (if too large to send, a Dropbox link (or something similar) should be utilized) to Patty Mota, Purchasing Agent, Town of New Fairfield, pmota@newfairfieldct.gov no later than the Proposal Due Date shown in the chart in Section II by 10:00 AM. The Purchasing Agent shall confirm receipt with the Developer. Proposals received after the final submission date will not be considered by the Town. All leases and work proposed must be capable of being implemented under all local, state and federal laws and regulations, and allowable under any utility-specific rules, incentive programs or guidance.

g. Questions:

Any questions concerning the process and procedures applicable to this RFP and concerning this RFP's specifications or the Sites, are to be submitted in writing by e-mail only to Patty Mota, Purchasing Agent, Town of New Fairfield, pmota@newfairfieldct.gov. Answers to questions, if appropriate, will be posted on the Town website as part of an addendum to this RFP and shall be deemed a part of this

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RFP. It is the sole responsibility of the Developers to track any and all addendums issued.

Developers shall have the responsibility of contacting state agencies or authorities for closure records of the Landfill.

Developers are prohibited from contacting any Town employee, officer or official concerning this RFP except for Patty Mota, Purchasing Agent, Town of New Fairfield. A Developer's failure to comply with this requirement may result in disqualification. No oral statement of the Town, including oral statements by any Town representatives, shall be effective to waive, change or modify any of the provisions of this RFP, and no Developer shall rely on any alleged oral statement regarding this RFP.

III. PROPOSAL REQUIREMENTS:

Proposals submitted in response to this RFP shall include the following information and documents, be clear and unambiguous, and be presented per the instructions below and on the attached proposal sheet as applicable.

a. Developer Qualifications:

Developers must submit a brief description of their company history including any current or significant past litigation it or any affiliates are involved. Developers should list at least five completed significant projects to date (and the capacities) in New England (identifying the state) and what role it played with respect to each project (i.e., development, construction, operation/ownership). Preference could be given to Developers that not only develop and/or construct projects but also own and operate projects for the long-term and that have experience in working on capped landfills in Connecticut.

b. System Design:

Proposals shall provide a basic system schematic design layout for each System, including projected DC size. Proposals shall provide details about the estimated kWh to be generated by the Systems and interconnection opportunities and challenges. It is at the discretion of the Developers whether to couple battery storage with the Systems.

c. State Program:

Developers should indicate which state incentive program to which they intend to apply (i.e. NRES or SCEF). To the extent the program

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involves net metering (or a similarly structured on-bill credit program such as NRES) the Developer or Winning Bidder should indicate to the Town the value it would receive from virtual net metering or on-bill credits (or the equivalent) from the Systems. It is anticipated that the Town of New Fairfield and the New Fairfield School System will be able to use all of the credits produced by the Systems. For purposes of bidding s for this RFP only assume the kWh consumed by the Town and the School System shall exceed the production of the Systems.

For purposes of this RFP, Developers may propose the benefits or value of these on-bill credits separately or consolidate them into and as part of the lease price.

d. Inflation Reduction Act

Developers should indicate for each System the percentage of tax credits upon which a proposal is based. For instance, if a Developer has access to enough equipment to satisfy the domestic content bonus credit threshold, it should indicate that for each System. Similarly, if a Developer is basing its proposal on the Landfill qualifying as an Energy Community (as defined in the Inflation Reduction Act) it should indicate that. It is the understanding of the Town that based on the 2024 US Department of Energy Community Tax Credit Bonus Map that both the High School and the Landfill areas considered MSAs/non-MSAs that meet both the Fossil Fuel Employment (FFE) threshold and the unemployment rate requirement and are an energy community as of June 7, 2024. This information must be independently confirmed by Developers. Developers are free to offer different Lease pricing depending on how much of an investment tax credit (“ITC”) they anticipate receiving (i.e. one Lease Price based off a 40% ITC for the Landfill System area and another based on 50%).

e. Lease

i. Lease Price and Term.

Proposals shall provide pricing for a 25-year lease term for each System, including proposed annual escalators. The proposed lease term is for budding purposes only. If applicable to the particular proposal, development period rent along with commercial operation rent should be specified, along with how long a period the Developer would prefer for the development period. Any upfront lease payments, if applicable, should also be specified. The Town reserves the right during

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negotiations with a Winning Bidder to substitute lease payments for direct payments to its various electric bills (reflecting the same value as the proposed lease payment).

ii. Real Estate and Personal Property Taxes.

For bidding purposes in this RFP, Developers should include personal property and real estate taxes in the lease price.

iii. Battery Storage/EV Charging Stations.

It is at the discretion of each Developer whether to couple battery storage with the System, or to include EV charging stations, if appropriate at the Site or elsewhere in the Town as part of its proposal. Any benefits to the Town or the lease price from the inclusion of battery storage should be included in a proposal.

iv. Insurance

The Developer has to maintain appropriate insurance for its interests in, and activities on, System areas and the Systems. All such policies shall be in such amounts, provide such coverage and be issued by such companies as shall be reasonably acceptable to the Town, but in no case with a single limit of liability (per occurrence and aggregate) of less than \$2,000,000.00, and shall list the Town as an additional insured and shall waive the rights of subrogation. The Winning Bidder shall pay, on demand, any increases in the Town's insurance premiums to the extent such increases are due to the Winning Bidder's personal property being affixed to the System areas or their use thereof.

v. Decommissioning Surety and Environmental Insurance.

Proposals must include an estimate of any decommissioning surety the Developer is willing to post for each System, if any, and what the preferred form would be (letter of credit, bond, cash escrow, etc.). Prior to construction on the Landfill, the Winning Bidder shall be required to procure contractors pollution liability insurance, or its

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equivalent, at an amount to be agreed upon by the Town so proposals should reflect this requirement.

vi. Project Portfolio and References:

Developers must provide the names (individuals), titles, addresses and contact information for three (3) references related to the technical expertise and financial capability of the Developer to develop, construct and/or own/operate the System. None of these references may be employees of the Developer or its affiliates.

vii. Statement on Developers Financial Strength:

Proposals should include sufficient and current information indicating the Developer's financial strength along with a list of any current litigation in which the Developer is involved.

f. Other Proposal Assumptions and Conditions

i. Landfill Interconnection:

It is at the discretion of the Developers as to where and at what size to interconnect for each System. With respect to the Landfill, Bigelow Road (which appears to require approximately .7 miles of reconductoring from Route 37) is a potential point of interconnection along with Warwick Road to the west. Any easements or other instruments needed for interconnection or access are the sole responsibility of the Developer or Winning Bidder.

For the sole purpose of this RFP and to levelized proposals, please assume an interconnection cost at the Landfill (not including application of the ITC) of \$1,200,000.

ii. Lease Form.

If the Winning Bidder prefers to use its own lease form, it shall be required to reasonably compensate the Consultant or Town's outside counsel for a review of such document(s). Otherwise, the Town and the Winning Bidder shall use the Town lease forms.

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IV. Developer Knowledge and Disclosure

a. Presumption of Developer's Full Knowledge:

Each Developer is responsible for having read and understood each document in this RFP and any addenda issued by the Town or formal responses, if any, to questions posed by other Developers. A Developer's failure to have reviewed all information that is part of or applicable to this RFP shall in no way relieve it from any aspect of its proposal or the obligations related thereto.

Each Developer is deemed to be familiar with and is required to comply with all local, federal and state statutes, regulations, ordinances, codes and orders, including any utility-specific rules or guidance, and incentive programs that in any manner relate to this RFP or the performance of the work described herein.

By submitting a proposal, each Developer represents that it has thoroughly examined and become familiar with the scope of work outlined in this RFP and can perform the work to achieve the Town's objectives.

b. Developer's Initial Disclosure Form and Specific Exceptions to this RFP:

Each Developer shall complete and execute the Initial Disclosure Form attached to this RFP. In such, each Developer must disclose, if applicable, the following:

- i. Whether it is unable or unwilling to meet any requirement of this RFP. Specific exceptions or additions should be included as an attachment to this RFP.
- ii. Whether it is ineligible under any applicable law or regulation to be awarded the leases or associated contracts because of occupational safety and health law violations.

A Developer's acceptability based on these disclosures lies solely in the Town's discretion

V. MISCELLANEOUS:

a. Cost for Preparing and Ownership of Proposals:

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The costs incurred by the Developers in developing their proposals are their sole responsibility, and the Town shall not have any liability for such costs. All proposals submitted shall become the Town's property and will not be returned to the Developers.

- b. Consultant — RFP Fee Agreement: A Developer, if selected under this RFP, agrees to pay a consultant selected by the Town (the "Consultant") an RFP Fee in the amount of \$.02 (two cents) per watt for each watt of installed DC capacity of the System. This payment compensates the Consultant for its considerable time and resources committed at no charge to the Town for assisting the Town in evaluating proposals, assisting with NRES or SCEF submissions on behalf of the Town, drafting and reviewing option agreements, lease agreements or net metering agreements, and working with DEEP or Eversource on matters related to the Landfill or the interconnection, among other activities. The RFP Fee payment schedule shall be as follows: 50% upon receipt by the Winning Bidder of all non-ministerial permits; and 50% upon receipt by the Winning Bidder of start of construction. Failure to pay the RFP Fee in a timely manner shall constitute a monetary/fiscal event of default under the lease.

- c. Freedom of Information Act/Confidentiality

All information submitted in a proposal or in response to a request for additional information is subject to disclosure under the state Freedom of Information Act as amended and judicially interpreted. All information submitted by Developers in response to this RFP will not be treated as or considered confidential by the Town.

- d. Hold Harmless Agreement:

Each Developer shall submit a completed Hold Harmless Agreement that is attached to this RFP.

- e. Non-Collusion Certificate:

Each Developer shall submit a completed Non-Collusion Certificate that is attached to this RFP.

Other Town Sites:

The Town, at its sole discretion, may work with the Winning Bidder to investigate other appropriate Town-owned properties for its development of EV charging stations, solar PV or battery storage or both.

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f. Any Other Considerations.

In this section, please list or describe any other potential benefits to the Town from your proposal including environmental (i.e., pollinator friendly or native grasses), agricultural, outreach (i.e., hosting annual school visits), or installing production monitors at schools or other town buildings, etc.

g. Interpretation:

Interpretation of the wording of this document shall be the sole right and responsibility of the Town and that interpretation shall be final.

h. Non-discrimination in Employment:

Bidders on this work will be required to comply with the President's Executive Order No. 11246. The Town is an affirmative action and equal opportunity employer. Minority/Women's Business Enterprises are encouraged to apply.

i. Conflict of interest/Code of Ethics:

The Winning Bidder agrees that this RFP or and the actions of the Winning Bidder are subject to the provisions of the [New Fairfield Code of Ethics](https://www.newfairfield.org/home/showpublisheddocument/17302/638106049186430000) (<https://www.newfairfield.org/home/showpublisheddocument/17302/638106049186430000>) Should the Winning Bidder be found to have violated the code of ethics, the Town may terminate this RFP or any ensuing agreement such as the letter of intent or notice of award and take such other action as the Town may have at law or in equity. The Winning Bidder shall incorporate the above paragraphs into any sub-contracts or purchase orders. The Winning Bidder shall be responsible for disclosing interests and relationships that could be perceived as a possible conflict of interest under the Town code of ethics.

VI. AWARD CRITERIA & SELECTION:

a. Proposal Opening and Review:

All Proposals will be opened by the Purchasing Agent, and analyzed by a committee organized for the purpose of reviewing the

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proposals (the “Solar Committee”) which may be comprised of the Purchasing Agent, the Consultant, the Town Engineer, the First Selectman, and any other individuals, whether Town employees, volunteers, elected officials, or consultants that the First Selectman deems in the public interest. Based upon the analysis, the Solar Committee will provide a recommendation and ranking of the proposals to the Board of Selectmen. The Town, acting through the Board of Selectmen, will ultimately select the winning proposal or proposals and execute a letter of intent and then ultimately a land lease/license with the Winning Bidder after obtaining all necessary approvals from, but not limited to, the Board of Finance, Planning Commission, Zoning Commission, Board of Education, and a Town Meeting if required.

b. Proposal Selection:

The Town will select the proposal that, all things considered, the Town determines in its complete and sole discretion, is in the best interest of the Town. Although price will be an important factor, it will not be the only basis for an award. Due to the complexity of the Systems and contemplated agreements, the Town is not and shall not be bound to select a winning proposal based upon highest lease pricing alone. Further, the Town can, at its discretion, negotiate with selected Developers on any proposal terms prior to selecting the Winning Bidder. The Town could use the following criteria, among others, in evaluating proposals:

- i. Proposal completeness and compliance with this RFP's requirements,
- ii. Financial strength, and stability and industry reputation,
- iii. Photovoltaic engineering, project and construction experience,
- iv. Recent prior experience – in particular in New England and associated references
- v. Customer service and maintenance capabilities,
- vi. Lease price/term/escalator for each System,
- vii. Likelihood of success in the specific state solar incentive program,
- viii. Any other factor that the Town deems appropriate in its sole discretion.

Regardless of anything to the contrary stated herein, the Town reserves the right to select a Developer based on factors not enumerated above at its unfettered and sole discretion.

c. Proposal Disqualification:

TOWN OF NEW FAIRFIELD, CT

REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM

The Town will not select any proposal from a Developer if it is in arrears or in default to the Town regarding any tax, debt, contract, security or any other obligation, nor shall it select any Developer if a majority owner thereof is in such arrears or default.

d. Preliminary Award:

The Town will select the proposal that it deems to be in the Town's best interests and issue a preliminary notice of award to the Winning Bidder. The award may be subject to further discussions with the Developer. The making of a preliminary award to, and execution of a preliminary agreement with, a Developer does not provide the Developer with any rights and does not impose upon the Town any obligations. The Town is free to withdraw a preliminary award at any time and for any reason. A Developer or the Winning Bidder has rights, and the Town has obligations, only if (i) all approvals and letters of support are received from applicable local, state and federal regulatory agencies, boards and authorities, (ii) final, financeable interconnection service agreements are fully executed with the utility and (iii) all other pertinent written documents and contracts are signed by the Town and the Winning Bidder. Neither this RFP nor any actions taken by the Town, until the steps enumerated above have been fulfilled, shall create any binding obligation toward any Developer.

TOWN OF NEW FAIRFIELD, CT
REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM

REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM
PROPOSAL SHEET

1. State Incentive Program

- a. for High School System: _____
- b. for Landfill System: _____

2. Monthly Development/Option Period Rent

- a. for High School System: _____
- b. for Landfill System: _____

3. Electricity Savings Proposed in Year 1 via net metering in NRES (if applicable)

- a. for High School System: _____
- b. for Landfill System: _____

4. Lease Price in Year 1 and Annual Escalator (Assume a 25-year lease term):

- a. With a 30% ITC for High School System: _____
- b. With a 40% ITC for High School System: _____
- c. With a 50% ITC for High School System: _____
- d. _____
- e. With a 30% ITC for Landfill System: _____
- f. With a 40% ITC for Landfill System: _____
- g. With a 50% ITC for Landfill System: _____

TOWN OF NEW FAIRFIELD, CT
REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM

**REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM
PROPOSAL SHEET**

Company Name: _____

Signature: _____

By: _____

Its: _____

* The signatory must be an authorized representative of the Developer with full power and authority to execute this Disclosure Form

INITIAL DISCLOSURE FORM

1. Exceptions to this RFP (please check the one that applies)

_____ This proposal does not take exception to any requirement of this RFP.

_____ This proposal does take exception to the requirements of this RFP. The specific exceptions are listed in a separate attachment.

2. Occupational Safety and Health Law Violations

Has the Developer or any firm, corporation, partnership or association in which it has an interest (1) been cited for three (3) or more willful or serious violations of any occupational safety and health act or of any standard, order or regulation promulgated pursuant to such act, during the three-year period preceding the proposal (provided such violations were cited in accordance with the provisions of any state occupational safety and health act or the Occupational Safety and Health Act of 1970, and not abated within the time fixed by the citation and such citation has not been set aside following appeal to the appropriate agency or court having jurisdiction) or (2) received one or more criminal convictions related to the injury or death of any employee in the three-year period preceding the proposal?

_____ Yes

_____ No

If "yes," attach a sheet fully describing each such matter.

TOWN OF NEW FAIRFIELD, CT
REQUEST FOR PROPOSALS FOR SOLAR PHOTOVOLTAIC (PV) SYSTEM

3. Criminal Proceedings

Has the Developer or any of its principals (regardless of the place of employment) ever been the subject of any criminal proceedings?

_____ Yes
_____ No

If "yes," attach a sheet fully describing each such matter.

4. Ethics and Offenses in Public Projects or Contracts

Has the Developer or any of its principals (regardless of the place of employment) ever been found to have violated any state or local ethics law, regulation, ordinance, code, policy or standard or to have committed any other offense arising out of the submission of proposals or bids or the performance of work on public works projects or contracts?

_____ Yes
_____ No

If "yes," attach a sheet fully describing each such matter.

Company Name:

Signature: _____

By: _____

Its: _____

* The signatory must be an authorized representative of the Developer with full power and authority to execute this Disclosure Form

HOLD HARMLESS AGREEMENT

_____ ("Developer") hereby agrees that it will indemnify and save harmless the Town of New Fairfield and the Consultant, employees, principals, members, agents and subcontractors from and against all losses from claims, demands, payments, suits, actions, recoveries and judgments of every nature and description brought or recovered against the Town of New Fairfield by reason of any omission or act of the Developer, its agents, the Consultant, employees, subcontractors in connection with this Request for Proposals or any ensuing activities and that any materials submitted herewith, to the extent permissible by law. This indemnification shall include all costs and disbursements incurred by the Town of New Fairfield in defending any suit, including attorneys' fees. Furthermore, at the option of the Town of New Fairfield the Developer shall provide defense for and defend all claims, demands and causes of action referred to above, and bear all other costs and expenses related thereto.

Company Name:

Signature:

By:

Its:

* The signatory must be an authorized representative of the Developer with full power and authority to execute this Disclosure Form

NON-COLLUSION CERTIFICATE

The undersigned Developer acknowledges and agrees that the attached proposal submitted by the Developer is submitted in connection with the proposal to provide the Town with a lease and related documents. By submission of this proposal, each Developer and each person signing on behalf of any Developer certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

The prices set forth within this proposal have been arrived at independently without collusion, consultation, communication or agreement, for restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Developer and will not knowingly be disclosed by the Developer prior to opening, directly or indirectly, to any other Developer or to any competitor; and

No attempt has been made or will be made by the Developer to induce any other person, partnership or corporation to submit or not to submit, a proposal for restricting competition.

In compliance with this RFP, and subject to the conditions thereof, the undersigned offers and agrees that the Town may rely upon both the within representations and the indemnifications set forth within the hold harmless agreement attached hereto.

Company Name:

Signature: _____

By: _____

Its: _____

* The signatory must be an authorized representative of the Developer with full power and authority to execute this Disclosure Form

Addendum 1

Request for Proposal for SOLAR PHOTOVOLTAIV (PV) SYSTEM

Attached are the High School drawings.

The landfill area site is listed on the https://hosting.tighebond.com/NewFairfieldCT_Public. The primary capped landfill area is listed on the site as 41 Bigelow, but the Town could be interested in expanding beyond this parcel to the extent possible and acceptable to the Ton onto 33 Bigelow or to 32 Jewell.

Dated December 18, 2024

THREE PHASE FEEDER SCHEDULE

COPPER CONDUCTORS

CIRCUIT SYMBOL	CONDUCTORS (3 PH, 3W) WITH GROUND SIZE	CONDUIT SIZE	CONDUCTORS (3 PH, 4W) WITH GROUND SIZE	CONDUIT SIZE	OVERCURRENT RATING	CIRCUIT SYMBOL	CONDUCTORS (3 PH, 3W) WITH GROUND SIZE	CONDUIT SIZE	CONDUCTORS (3 PH, 4W) WITH GROUND SIZE	CONDUIT SIZE	OVERCURRENT RATING
1	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"	15A	100	(2)3#250KCMIL & 1#2G	(2) 3"	2 SETS OF 4#250KCMIL & 1#2G	(2) 3"	500A
2	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"	20A	70	(2)3#350KCMIL & 1#1G	(2) 3"	2 SETS OF 4#350KCMIL & 1#1G	(2) 4"	600A
2.5	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"	25A	80	(2)3#350KCMIL & 1#1G	(2) 4"	2 SETS OF 4#350KCMIL & 1#1G	(2) 4"	700A
3	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"	30A	90	(2)3#350KCMIL & 1#1G	(2) 4"	2 SETS OF 4#350KCMIL & 1#1G	(2) 4"	800A
3.5	3#8 & 1#8G	3/4"	4#8 & 1#8G	3/4"	35A	100	(3)3#350KCMIL & 1#2G	(3) 3"	3 SETS OF 4#350KCMIL & 1#2G	(3) 4"	900A
4	3#8 & 1#8G	3/4"	4#8 & 1#8G	1"	40A	100	(3)3#350KCMIL & 1#2G	(3) 4"	3 SETS OF 4#350KCMIL & 1#2G	(3) 4"	1000A
4.5	3#8 & 1#8G	3/4"	4#8 & 1#8G	1"	45A	120	(4)3#350KCMIL & 1#3G	(4) 3"	4 SETS OF 4#350KCMIL & 1#3G	(4) 4"	1200A
5	3#8 & 1#8G	1"	4#8 & 1#8G	1"	50A	160	(4)3#350KCMIL & 1#4G	(4) 3"	4 SETS OF 4#350KCMIL & 1#4G	(4) 4"	1600A
6	3#8 & 1#8G	1"	4#8 & 1#8G	1"	60A	200	5 SETS OF 3#600KCMIL & 1#25GKCMIL(G)	(5) 3"	5 SETS OF 4#600KCMIL & 1#25GKCMIL(G)	(5) 4"	2000A
7	3#4 & 1#4G	1 1/4"	4#4 & 1#4G	1 1/4"	70A	250	6 SETS OF 3#600KCMIL & 1#25GKCMIL(G)	(6) 3"	6 SETS OF 4#600KCMIL & 1#25GKCMIL(G)	(6) 4"	2500A
8	3#4 & 1#4G	1 1/4"	4#4 & 1#4G	1 1/4"	80A	300	8 SETS OF 3#600KCMIL & 1#25GKCMIL(G)	(8) 3"	8 SETS OF 4#600KCMIL & 1#25GKCMIL(G)	(8) 4"	3000A
9	3#3 & 1#3G	1 1/4"	4#3 & 1#3G	1 1/4"	90A						
10	3#3 & 1#3G	1 1/4"	4#3 & 1#3G	1 1/4"	100A						
11	3#2 & 1#2G	1 1/4"	4#2 & 1#2G	1 1/2"	110A						
12	3#1 & 1#1G	1 1/2"	4#1 & 1#1G	2"	125A						
13	3#1/0 & 1#1/0G	2"	4#1/0 & 1#1/0G	2"	150A						
14	3#1/0 & 1#1/0G	2"	4#1/0 & 1#1/0G	2"	175A						
15	3#3/0 & 1#3/0G	2"	4#3/0 & 1#3/0G	2 1/2"	200A						
16	3#4/0 & 1#4/0G	2 1/2"	4#4/0 & 1#4/0G	2 1/2"	225A						
17	3#250KCMIL & 1#4G	3"	4#250KCMIL & 1#4G	3"	250A						
18	3#250KCMIL & 1#4G	3"	4#250KCMIL & 1#4G	4"	300A						
19	3#500KCMIL & 1#3G	4"	4#500KCMIL & 1#3G	4"	350A						
20	3#600KCMIL & 1#3G	4"	4#600KCMIL & 1#3G	4"	400A						
21	(2)3#4/0 & 1#2G	(2) 2 1/2"	2 SETS OF 4#4/0 & 1#2G	(2) 2 1/2"	450A						
22	(2)3#250KCMIL & 1#2G	(2) 3"	2 SETS OF 4#250KCMIL & 1#2G	(2) 3"	500A						

DRY TYPE TRANSFORMER SCHEDULE

SIZE	KVA	PRIMARY AMPS	SECONDARY AMPS	480 VOLT OVERCURRENT	208 VOLT OVERCURRENT	480 VOLT FEEDER**	208/120 VOLT FEEDER**	OEC (NOTE 5)	SSBJ (NOTE 6)
T1	9	11	25	20A, 3P	30A, 3P	3#12 & 1#12G - 3/4"	4#10 - 3/4"	1#8 - 3/4"	1#8
T2	15	18	42	30A, 3P	50A, 3P	3#10 & 1#10G - 3/4"	4#8 - 1"	1#8 - 3/4"	1#8
T3	30	36	83	60A, 3P	100A, 3P	3#4 & 1#4G - 1"	4#1 - 1 1/2"	1#6 - 3/4"	1#6
T4	45	54	125	90A, 3P	150A, 3P	3#3 & 1#3G - 1 1/2"	4#1/0 - 1 1/2"	1#6 - 3/4"	1#6
T5	75	90	208	150A, 3P	250A, 3P	3#1/0 & 1#1/0G - 1 1/2"	4#250 KCMIL - 2 1/2"	1#2 - 3/4"	1#2
T6	112.5	135	313	200A, 3P	400A, 3P	3#3/0 & 1#3/0G - 2"	4#600 KCMIL - 4"	1#1/0 - 3/4"	1#1/0
T7	150	181	417	300A, 3P	500A, 3P	3#350 KCMIL & 1#4G - 3"	4#250 KCMIL - (2) 2 1/2"	1#1/0 - 3/4"	1#1/0
T8	225	270	625	400A, 3P	800A, 3P	3#400 KCMIL & 1#3G - 3 1/2"	4#600 KCMIL - (2) 4"	1#3/0 - 3/4"	1#3/0
T9	300	361	834	600A, 3P	1000A, 3P	3#650 KCMIL & 2#1G - (2) 3"	12#400 KCMIL - (3) 3"	1#3/0 - 3/4"	1#3/0
T10	500	600	1400	1000A, 3P	1800A, 3P	3#1000 KCMIL & 3#2/0G - (3) 3"	16#600 KCMIL - (4) 4"	1#300 KCMIL - 1"	1#300KCMIL

TRANSFORMER NOTES:

- BOND NEUTRAL TRANSFORMER SECONDARY TO THE TRANSFORMER GROUND BAR AND CASE WITH SYSTEM BONDING JUMPER.
- USE NEAREST AVAILABLE EFFECTIVELY GROUNDING WATER PIPE, STRUCTURAL STEEL AND/OR DRIVEN GROUND ROD IN ACCORDANCE WITH N.E.C. 250-81 AND 250-83 FOR THE SEPARATELY DERIVED SYSTEM GROUNDING ELECTRODE.
- ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS. N.E.C. TABLE 310.15.
- SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITH IN (10) FEET OF THE TRANSFORMER SECONDARY TERMINALS EITHER IN A PANELBOARD (MAIN BREAKER), AN INDIVIDUALLY MOUNTED CIRCUIT BREAKER, OR A FUSIBLE DISCONNECT SWITCH.
- GROUNDING ELECTRODE CONDUCTOR TO BE RUN FROM GROUND BAR IN TRANSFORMER TO THE GROUNDING ELECTRODE FOR THE SEPARATELY DERIVED SYSTEM.
- SYSTEM BONDING JUMPER/SUPPLY SIDE BONDING JUMPER TO BE INSTALLED BETWEEN THE TRANSFORMER GROUND BAR AND CASE AND BETWEEN THE GROUND BAR IN THE FIRST SUPPLY SIDE DISCONNECTING MEANS (PANELBOARD, ENCLOSED CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH) AND TRANSFORMER GROUND BAR. INSTALL MULTIPLE SUPPLY SIDE BONDING JUMPERS OF THE SIZE LISTED, (1) IN EACH FEEDER RACEWAY.
- 600 KCMIL CONDUCTORS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.

**** UNLESS NOTED OTHERWISE IN RISER DIAGRAM**

LEGEND OF FEEDER SIZES

SINGLE CONDUCTOR MI CABLE

FEEDER SYMBOL	CONDUCTORS (3 PHASE, 3 WIRE)	CONDUCTORS (3 PHASE, 4 WIRE)	NOMINAL AMPERE RATING
M1	3#10	3#10, 1#10N	40
M2	3#8	3#8, 1#8N	60
M3	3#8	3#8, 1#8N	70
M4	3#4	3#4, 1#4N	100
M5	3#4	3#4, 1#4N	125
M6	3#2	3#2, 1#2N	150
M7	3#1	3#1, 1#1N	175
M8	3#1/0	3#1/0, 1#1/0N	200
M9	3#1/0	3#1/0, 1#1/0N	225
M10	3#2/0	3#2/0, 1#2/0N	250
M11	3#3/0	3#3/0, 1#3/0N	300
M12	3#4/0	3#4/0, 1#4/0N	350
M13	3#250 KCMIL	3#250 KCMIL, 1#250KCMIL (N)	400
M14	3#350 KCMIL	3#350 KCMIL, 1#350KCMIL (N)	500

NOTES:

- UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS WHERE INDICATED, OR AS REQUIRED BY CODE.
- SINGLE CONDUCTOR CABLES SHOULD BE RUN IN GROUPS HAVING ONE CABLE FROM EACH PHASE, WITH CABLES FASTENED TIGHTLY TOGETHER AND WITH CABLES EFFECTIVELY GROUNDING BY CONNECTING THE GROUND CONNECTOR AT EACH END OF THE CABLE RUN TO THE METAL ENCLOSURE.
- CONDUCTOR SIZES ARE BASED ON 75°C. ALL EQUIPMENT AND CONDUCTOR TERMINATIONS CONNECTED TO WIRES SHALL MATCH THESE RATINGS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL ELECTRICAL CONDUCTOR REQUIREMENTS.

New Fairfield High School & Pool Locker Rooms

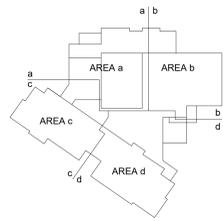
54 Gillotti Rd.
New Fairfield, CT 06812

091-0044N &
091-0046CV

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Middletown CT 06457
860.532.1682
CES#2020128.01



BID SET
06/07/2021

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JOB 2020128.01
DRAWN MAL
SCALE N.T.S.
REVISIONS

ELECTRICAL RISER DIAGRAM

E-710

ELECTRICAL RISER DIAGRAM KEY NOTES

E1 PROVIDE THE FOLLOWING GENERATOR AUXILIARY CONNECTIONS. ALL UNDERGROUND IN TRENCH:
 • 200-1P CIRCUIT FOR BATTERY CHARGER, 2#12-1#12G, 3/4" TO BREAKER IN PANEL "PP1A"
 • 3#4-2P CIRCUIT FOR BLOCK HEATER, 2#10-1#10G, 3/4" TO BREAKER IN PANEL "PP1A"
 • 1" WITH WIRING PER MFR. REQUIREMENTS TO ATIS-1 FOR START CIRCUIT. THIS WIRING SHALL BE SINGLE-CONDUCTOR 2-HOUR RATED MI CABLE, MINIMUM #14AWG SIZE.
 • 1" WITH WIRING PER MFR. REQUIREMENTS TO ATIS-2 FOR START CIRCUIT.
 • 1" WITH WIRING PER MFR. REQUIREMENTS TO FIRE PUMP ATIS FOR START CIRCUIT.
 • 1" WITH WIRING PER MFR. REQUIREMENTS TO GENERATOR ANNUNCIATOR PANEL (REFER TO FLOOR PLANS FOR LOCATION).
 • 1" WITH WIRING PER MFR. REQUIREMENTS TO ATIS-3 FOR START CIRCUIT.
 • 1" WITH #14 FOR ENGINE START MONITORING ALARM SIGNAL TO FIRE ALARM MONITOR MODULE IN BUILDING.

E2 GENERATOR SHALL BE GROUNDED AS A SEPARATELY DERIVED SYSTEM PER NEC ARTICLE 250.30 REQUIREMENTS. SHALL BE GROUNDING ELECTRODES AT GENERATOR PER NEC.

E3 TRANSFORMER SHALL HAVE (2) SETS OF SECONDARY LUGS FOR MULTIPLE CONNECTIONS.

E4 VOCATIONAL AREA PANELBOARD WITH REMOTE SHUTOFF SWITCH, AMPERAGE AS INDICATED - ASO 911 SERIES REMOTE CONTROLLED SWITCH. REFER TO VOCATIONAL SHOP WIREMOT SWITCH ELECTRICAL SHUT-OFF DETAIL FOR ADDITIONAL INFORMATION.

E5 KITCHEN AREA PANELBOARD WITH SHUNT TRIP MAIN BREAKER FOR ELECTRICAL SHUTOFF. REFER TO VOCATIONAL SHOP ELECTRICAL SHUTOFF DETAIL FOR ADDITIONAL INFORMATION.

E6 SCIENCE CLASSROOM PANELBOARD WITH SHUNT TRIP MAIN BREAKER TIED INTO GAS & ELECTRIC SHUTOFF SYSTEM. REFER TO SCIENCE CLASSROOM EPO DETAIL #E-516 FOR ADDITIONAL INFORMATION.

E7 SPECIALTY ELEVATOR DISCONNECT SWITCH WITH INTEGRAL SHUNT-TRIP AND VOLTAGE MONITORING CAPABILITY. SEE DETAIL #E-510 FOR ADDITIONAL INFORMATION.

SURGE PROTECTIVE DEVICE (SPD) SCHEDULE

DESIGNATION	VOLTAGE	PHASE	WIRES	SURGE CAPACITY (PER PHASE)	ENCLOSURE	MOUNTING	MODES OF PROTECTION
SPD-1	480Y/277V	3	4	160,000	N/A	INTEGRAL	L-N, L-G, L-L
SPD-2	208Y/120V	3	4	80,000	N/A	INTEGRAL	L-N, L-G, L-L
SPD-3	480Y/277V	3	4	80,000	N/A	3-POLE	L-N, L-G, L-L

NOTES:

- SPDs SHALL BEAR THE UL MARK AND SHALL BE LISTED TO THE MOST RECENT STANDARD EDITIONS OF UL 1449.
- SPD AND PERFORMANCE PARAMETERS SHALL BE POSTED AT WWW.UL.COM UNDER CATEGORY CODE: VZCA
- SPD SHALL BE UL LABELED WITH 20 kA NOMINAL (IN) FOR COMPLIANCE TO UL 96A LIGHTNING PROTECTION MASTER LABEL AND NFPA 790.
- SPD SHALL BE UL LABELED AS TYPE 1.
- SERVICE ENTRANCE SPD SHALL HAVE EMVIRI FILTERING -50 dB FROM 10kHz TO 100MHz.
- SPDs SHALL BE EQUIPPED WITH 1 SET OF NONIC DRY CONTACTS.

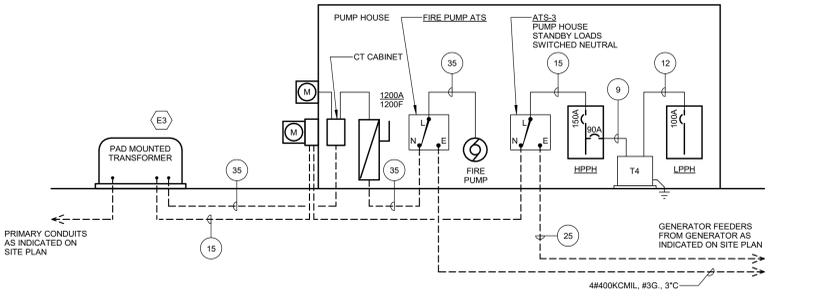
FEEDER LINE TYPES

— FEEDER CONCEALED IN WALLS AND ABOVE CEILING

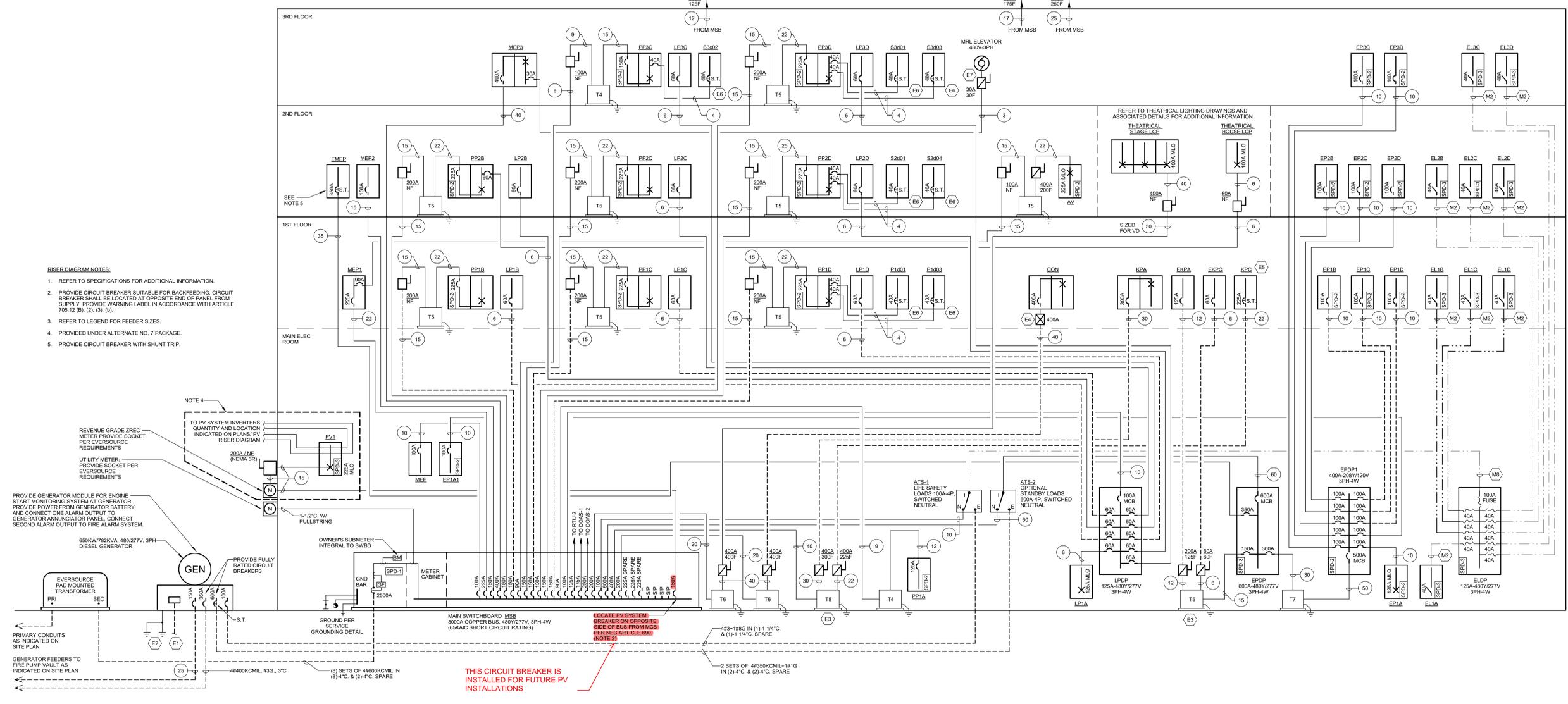
--- FEEDER INSTALLED UNDERSLAB

--- MI FEEDER CONCEALED IN WALLS AND ABOVE CEILING

--- MI FEEDER INSTALLED UNDERSLAB



2 ELECTRICAL RISER DIAGRAM (PUMP HOUSE)
N.T.S.



RISER DIAGRAM NOTES:

- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE CIRCUIT BREAKER SUITABLE FOR BACKFEEDING. CIRCUIT BREAKER SHALL BE LOCATED AT OPPOSITE END OF PANEL FROM SUPPLY. PROVIDE WARNING LABEL IN ACCORDANCE WITH ARTICLE 705.12 (B), (C), (D).
- REFER TO LEGEND FOR FEEDER SIZES.
- PROVIDED UNDER ALTERNATE NO. 7 PACKAGE.
- PROVIDE CIRCUIT BREAKER WITH SHUNT TRIP.

1 ELECTRICAL RISER DIAGRAM
N.T.S.

12/30/2021 1:04:53 PM

New Fairfield High School & Pool Locker Rooms

54 Gillotti Rd.
New Fairfield, CT 06812

091-0044N &
091-0046CV

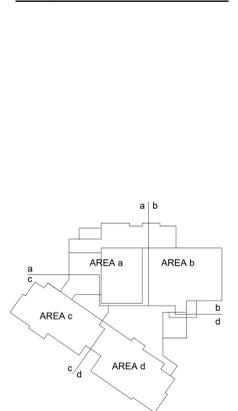
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ces@eng.com
CES #2020128.01



BID SET
06/07/2021

ISSUE ISSUED FOR BID
JOB 2020128.01
DRAWN MAL
SCALE As indicated
REVISIONS

ELECTRICAL PV RISER AND DIAGRAMS

E-713

GENERAL SOLAR PV NOTES

- VOLTAGE DROPS SHALL BE LIMITED TO 3% BETWEEN INVERTER(S) AND THE EXTERIOR AC DISCONNECT.
- ALL WIRING SHALL BE COPPER.
- THE CONTRACTOR SHALL PROVIDE PROOF OF CONFORMITY TO THE ROOF WARRANTY AS IT PERTAINS TO THE PV ARRAY IN ITS ENTIRETY.
- ANY DEVIATION FROM THE BASIS OF DESIGN SHALL REQUIRE A REDESIGN OF THE SYSTEM BY THE CONTRACTOR AS STIPULATED IN SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN STAMPED STRUCTURAL DRAWINGS AS IT PERTAINS TO THE PV ARRAY IN ITS ENTIRETY BY A LICENSED CONNECTICUT STRUCTURAL ENGINEER.

PV SOURCE CIRCUIT NOTE

THESE DRAWINGS ARE DIAGRAMMATIC TO SHOW MODULES CONNECTED TO POWER OPTIMIZERS CONNECTED IN SERIES TO INVERTERS. PROVIDE POSITIVE/NEGATIVE STRING CONDUCTORS. PROVIDE CONDUIT SLEEVES BETWEEN ROWS AND JUNCTION BOXES. ROOF MOUNTED DC WIRING SHALL ADHERE, IN INTENT, TO THE ROUTING SHOWN ON PLANS. FINAL ROOF MOUNTED CONDUIT ROUTING SHALL BE FULLY COORDINATED WITH ALL OTHER INSTALLERS, BUILDING OWNERS, ARCHITECTS AND ENGINEERS.

PV SYSTEM DESIGN CRITERIA

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE: 2018 CT STATE FIRE SAFETY CODE CHAPTER 605.11
DESIGN WIND SPEED PER ATC: 140 MPH (3 SECOND GUST)
WIND EXPOSURE: B
RISK CATEGORY: III
GROUND SNOW LOAD: 35 PSF

SUPPLEMENTARY PV SYMBOLS LIST

ROOF PLAN	SITE PLAN	NOTE: REFER TO ELECTRICAL SYMBOLS, LEGENDS, NOTES AND ABBREVIATIONS ON SHEET E-000 HS FOR ADDITIONAL SYMBOLS AND INFORMATION.
		PV MODULE MOUNTED TO RACKING SYSTEM AND CONNECTED TO INVERTER AS NOTED.
		PHOTOVOLTAIC SYSTEM DC CIRCUIT: SHOWN TO DEPICT STRING CONFIGURATION. LINES SHOWN UNDER PV MODULE, DESIGNATES THAT THE MODULE IS WIRED, IN SERIES, VIA POWER OPTIMIZER. TO THE DESIGNATED STRING AND INVERTER. PV MODULE SHALL BE CIRCUITED PER THE PV RISER DIAGRAM DETAIL ON THIS SHEET.
		INVERTER INPUT CIRCUIT: SHOWN TO DEPICT STRING & INVERTER WIRING CONFIGURATION. SYMBOL INDICATES DESIGNATED STRING NUMBER AND INVERTER NUMBER. EACH INVERTER SHALL BE CONNECTED TO STRINGS AS INDICATED ON PLANS.
		AMBIENT TEMPERATURE SENSOR.
		MODULE TEMPERATURE SENSOR
		IRRADIANCE SENSOR - MOUNT PLUMB WITH ADJACENT PV MODULE.
		WALL MOUNTED THREE PHASE PV INVERTER
		1000 VOLT DC SURGE PROTECTOR. PROVIDE PHOENIX CONTACT (WAL-MS-T172 1000DC-PV2V-FR) IN WEATHER PROOF ENCLOSURE BY PHOENIX CONTACT PER MANUFACTURER REQUIREMENTS.

INVERTER SCHEDULE

MANUFACTURER & MODEL	INVERTER NUMBERS	OUTPUT CURRENT	OUTPUT POWER	MPPT/V	OPTIMIZER	WARRANTY
SOLAR EDGE SE30KUS	INV-1 INV-2 INV-3	36.25A	30,000W	400V	SOLAR EDGE P505	12 YEARS
SOLAR EDGE SE20KUS	INV-4	24.00A	20,000W	400V	SOLAR EDGE P505	12 YEARS

- INVERTERS MEET UL1741 STANDARD AND PROVIDES AUTOMATIC DISCONNECT/ISOLATION FROM UTILITY COMPANY WHEN UTILITY POWER IS LOST.
- ALL INVERTERS EQUIPPED WITH RAPID SHUT-DOWN EQUIPMENT TO CONTROL ALL PV ARRAYS AS REQUIRED.
- REFER TO PANEL SCHEDULES AND DIAGRAMS FOR INVERTER CONNECTIONS TO SOURCE PANELS. REFER TO PHOTOVOLTAIC PLANS FOR STRINGING AND MODULE QUANTITIES.
- PROVIDE SURGE SUPPRESSION DEVICES ON ALL AC INVERTER CIRCUITS AND DC CONNECTED CIRCUITS AS INDICATED.
- POWER OPTIMIZERS SHALL HAVE A 25 YEAR WARRANTY.

PV MODULE SCHEDULE

LOCATION	MANUFACTURER & MODEL	Pmax (STC)	Voc	Vmp	Imp	Isc
ROOF	LG NEON 2 LG469N2W-V5	408W	49.4V	41.0V	9.86A	10.47A

- MODEL ATTRIBUTES:
A. DIMENSIONS: 79.69"x40.32"x1.58"
B. WEIGHT: 44.75 LBS
C. FRONT SIDE EFFICIENCY: 19.9%
NOTE: ELECTRICAL STATISTICS BASED ON STANDARD TEST CONDITIONS (STC)
- PV MODULES SHALL HAVE A 25 YEAR WARRANTY

PV RACKING SCHEDULE

LOCATION	MANUFACTURER & MODEL	TILT	MANUFACTURER ACCESSORIES
ROOF	AEROCOMPACT S10 7-10	10 DEGREES	ALUMINUM CONSTRUCTION, STAINLESS STEEL HARDWARE, BALLAST TRAYS, SNOWLOAD SUPPORTS, WINDSCREENS, WIRE MANAGEMENT, GROUNDING CLAMPS/SLUGS, OPTIMIZER CLAMPS, ROOF PROTECTION PADS, CONCRETE BALLAST BLOCKS AND ALL OTHER EQUIPMENT REQUIRED BY MANUFACTURER.

- PROVIDE ALL EQUIPMENT TYPICAL STRUCTURAL AND ARCHITECTURAL REQUIREMENTS.
- COORDINATE FINAL EQUIPMENT CONFIGURATION WITH MANUFACTURER BASED ON SITE CONDITIONS.
- PROVIDE STRUCTURAL ENGINEERING DESIGN, REVIEW AND SEAL DRAWINGS FOR ALL RACKING ATTACHMENTS, LOADING AND WIND UPLIFT.
- PROVIDE CONCRETE BALLAST BLOCKS TO WITHSTAND WIND LOADS AND SNOW LOADS IN ACCORDANCE WITH ASCE - 7-16 TO MATCH THE RISK CATEGORY OF THE SCHOOL.

KEY NOTES - PV ARRAY RISER DIAGRAM

- (E1) PROVIDE 1000V RATED #210 DC WIRING & #110G, 1" IMC (INTERMEDIATE METAL CONDUIT) TO THE ROOF MOUNTED PV ARRAY. ROOF MOUNTED CONDUIT SHALL BE PROVIDED AT LEAST 3-1/2" ABOVE ROOF. THE CONTRACTOR MAY COMBINE MULTIPLE STRINGS IN A SINGLE 1" CONDUIT IF THE STRINGS ARE CONNECTED TO THE SAME INVERTER (AS INDICATED ON PLANS) AND ORIGINATE FROM THE SAME LOCATION - NOT TO EXCEED 3 DC CIRCUITS (UP TO 6 CURRENT CARRYING CONDUCTORS).
- (E2) 1000V RATED #210 DC WIRING AND #6 GROUND WIRE TO SOLAR EDGE POWER OPTIMIZER. CONDUCTORS SHALL BE PROTECTED FROM PHYSICAL AND UV DAMAGE. PROVIDE CONDUIT PROTECTION WITH APPROVED BUSHINGS. PROVIDE WIRING BETWEEN ROWS IN CONDUIT. WIRING AT THE PV ARRAY SHALL BE SECURED WITH STAINLESS STEEL CLIPS AND POLYESTER COATED STAINLESS STEEL WIRETIRES. GROUND ALL EQUIPMENT AS REQUIRED INCLUDING RACKING, MODULE, POWER OPTIMIZER, JUNCTION BOXES, ETC.
- (E3) LG NEON 2 72 CELL PV MODULE MOUNTED TO PV RACKING SYSTEM ON ROOF. REFER TO PV MODULE SCHEDULE.
- (E4) RACK MOUNTED SOLAR EDGE POWER OPTIMIZER P505. (1) POWER OPTIMIZER SERVES EACH PV MODULE. PROVIDE UL LISTED MOUNTING BRACKET AS REQUIRED BY SOLAR EDGE AND RACKING MANUFACTURER. PROVIDE CONNECTOR AND EXTENSION ADAPTORS AS REQUIRED. MOUNT POWER OPTIMIZER PER MANUFACTURER REQUIREMENTS. CAP ALL UNUSED CONNECTORS AT EACH POWER OPTIMIZER.
- (E5) #8 & #10G, 1" IMC TO 50A/3P CIRCUIT BREAKER IN PANEL PV1, RATED FOR BACKFEED. USE THWN-2 WIRE.
- (E6) #10 & #10G, 3/4" IMC TO 30A/3P CIRCUIT BREAKER IN PANEL PV1, RATED FOR BACKFEED. USE THWN-2 WIRE.
- (E7) WALL MOUNTED SOLAR EDGE PV INVERTER. REFER TO INVERTER SCHEDULE. PROVIDE SOLAR EDGE RAPID SHUTDOWN KIT AND RS485 SPO KIT (ISE-RS485-SPO2-K1) PRODUCTION REPORTING; DAISY CHAIN INVERTERS TO FORM A MASTERSLAVE CONFIGURATION AS REQUIRED BY SOLAR EDGE FOR COMPLETE SYSTEM REPORTING. PROVIDE A HARDWIRED MODEM KIT INCLUDING A SOLAR EDGE DATA PLAN FOR EACH MASTER INVERTER (TYP). ENSURE PRODUCTION DATA REPORTING REMAINS OPERATIONAL FOR THE LIFE OF THE PV ARRAY. CONFIGURE PRODUCTION REPORTING WITH OWNERS IT REPRESENTATIVE.
- (E8) SOLAR EDGE CONTROL AND COMMUNICATION GATEWAY IN NEMA 3R HOUSING. COMMUNICATION GATEWAY SHALL BE COMPATIBLE WITH THE SCHOOLS IT INFRASTRUCTURE TO REPORT TOTAL PV SYSTEM PERFORMANCE IN REAL TIME. REPORTING SYSTEM SHALL PROVIDE PV MODULE LEVEL DATA. DAISY CHAIN FROM INVERTERS VIA RS485 CONNECTION FOR COMPLETE SYSTEM REPORTING. PROVIDE WEATHERPROOF RECEPTACLE WITH 120V-20A CIRCUIT FOR CORD AND PLUG ADAPTER - REFER TO FLOOR PLANS FOR LOCATION AND CIRCUITING.
- (E9) DATA CONNECTION IN WEATHERPROOF ENCLOSURE ADJACENT TO INVERTER TO REPORT TO OWNERS IT REPRESENTATIVE TO ENSURE DATA IS AVAILABLE 24/7 TO THE OWNER FOR MONITORING AND DISPLAY FOR COMPLETE SYSTEM REPORTING. MASTER INVERTER SHALL BE CONFIGURED FOR REPORTING VIA HARDWIRED CONNECTION TO SMA MONITORING PORTAL.
- (E10) WEATHERPROOF RS485 COMMUNICATION WIRE TO MASTER INVERTER IN CONDUIT.

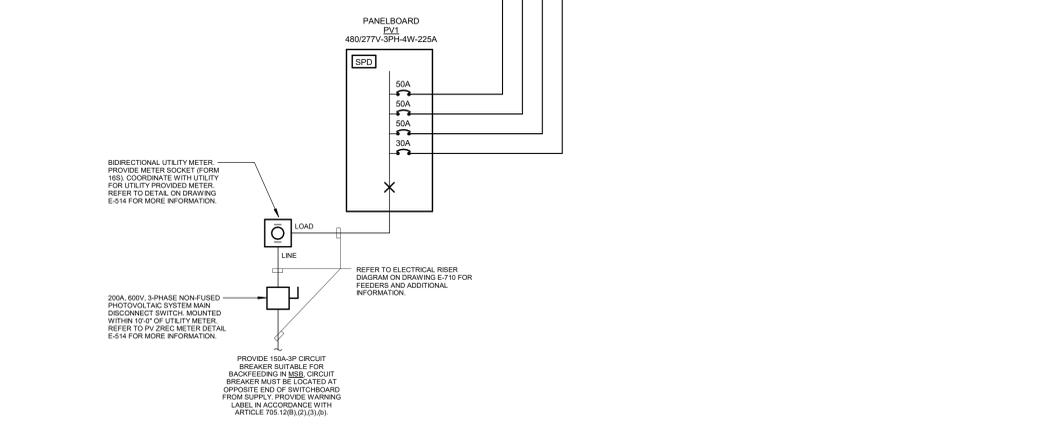
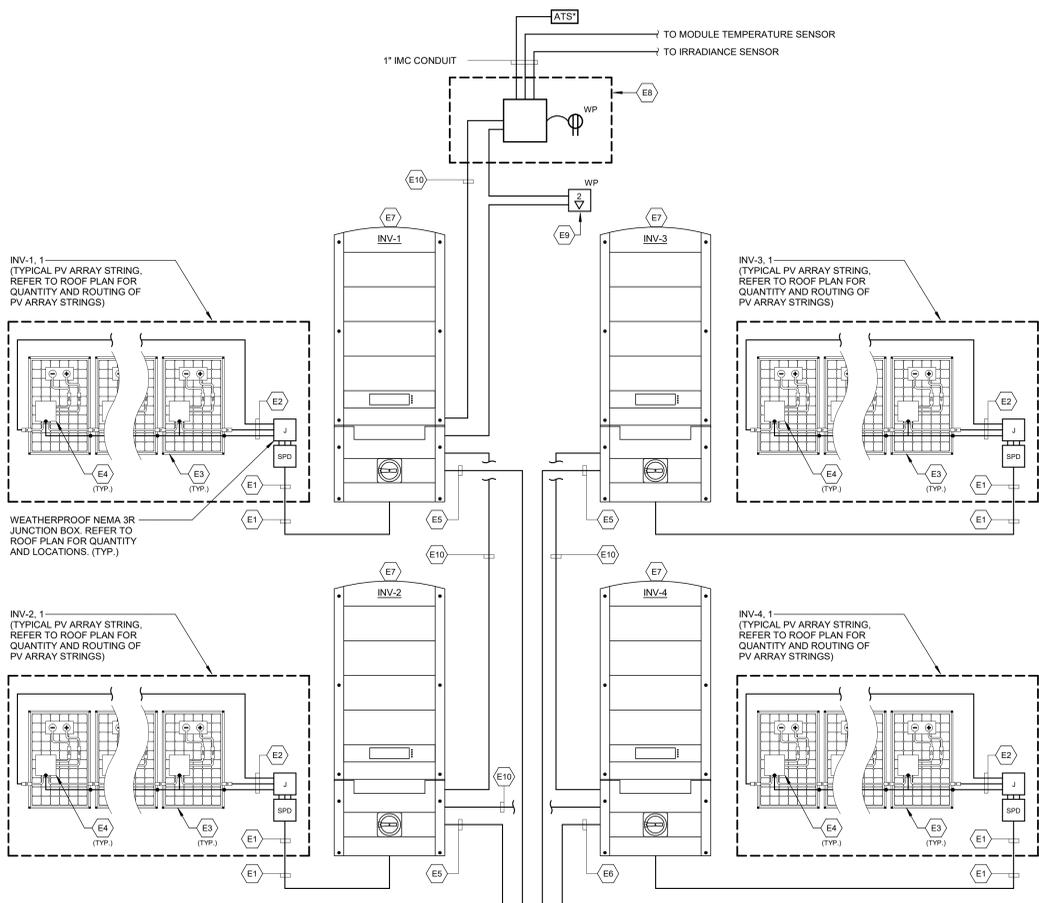
GENERAL NOTES - ELECTRICAL ALTERNATE NO. 7

NOTE:
THE PHOTOVOLTAIC SYSTEM AS SHOWN ON THIS DRAWING IS PART OF ALTERNATE NO. 7 PACKAGE ONLY.

PHOTOVOLTAIC SYSTEM LABELING CHART

EQUIPMENT	LABEL	LOCATION	LABEL
COMBINER BOX		STRING/CENTRALIZED INVERTERS	
DC BREAKER OR DC DISCONNECT		AC BREAKER, AC DISCONNECT, AC BREAKER PANEL	
DC BREAKER OR DC DISCONNECT		AC BREAKER, AC DISCONNECT, AC BREAKER PANEL	
DC BREAKER OR DC DISCONNECT		AC BREAKER, AC DISCONNECT, AC BREAKER PANEL	
RAPID SHUTDOWN INITIATING DEVICE IF APPLICABLE		PRODUCTION/METER	
RAPID SHUTDOWN INITIATING DEVICE IF APPLICABLE		PRODUCTION/METER	
CONDUIT, EMT, ENCLOSURES, CABLING ASSEMBLIES, ABOVE AND BELOW ALL PENETRATIONS		DIRECTORY PLACARD	
CONDUIT, EMT, ENCLOSURES, CABLING ASSEMBLIES, ABOVE AND BELOW ALL PENETRATIONS		DIRECTORY PLACARD	

- NOTES:
- ALL LABELS SHALL BE COMPLIANT WITH NEC 110.21(B) 2017 VERSION AND ANSI Z395.4 UNLESS OTHERWISE NOTED.
 - ALL LABELS SHALL BE PERMANENTLY AFFIXED AND BE OF ADEQUATE DURABILITY TO WITHSTAND AND SURVIVE THE ENVIRONMENT INVOLVED.



1 NFHS - PV RISER DIAGRAM
N.T.S.

New Fairfield High School & Pool Locker Rooms

54 Gillotti Rd.
New Fairfield, CT 06812

091-00404 &
091-004607

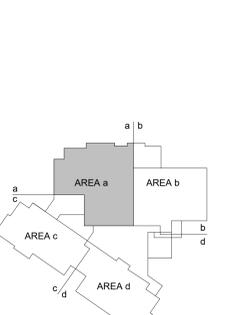
JCJ ARCHITECTURE

120 HUYSHOPE AVENUE
SUITE 400
HARTFORD, CT 06106
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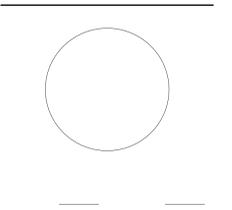
CONSULTANT:

Consulting Engineering
Services, Inc.
811 Middle Street
Middletown CT 06457
860.632.1682
ces-inc.com
CES #2020128.01



KEY PLAN

BID SET
06/07/2021



ISSUE ISSUED FOR BID
JOB 2020128.01
DRAWN MAL
SCALE As indicated

REVISIONS

ELECTRICAL POWER PLAN -
ROOF LEVEL AREA A

EP-114a

GENERAL NOTES - ELECTRICAL ALTERNATE NO. 7

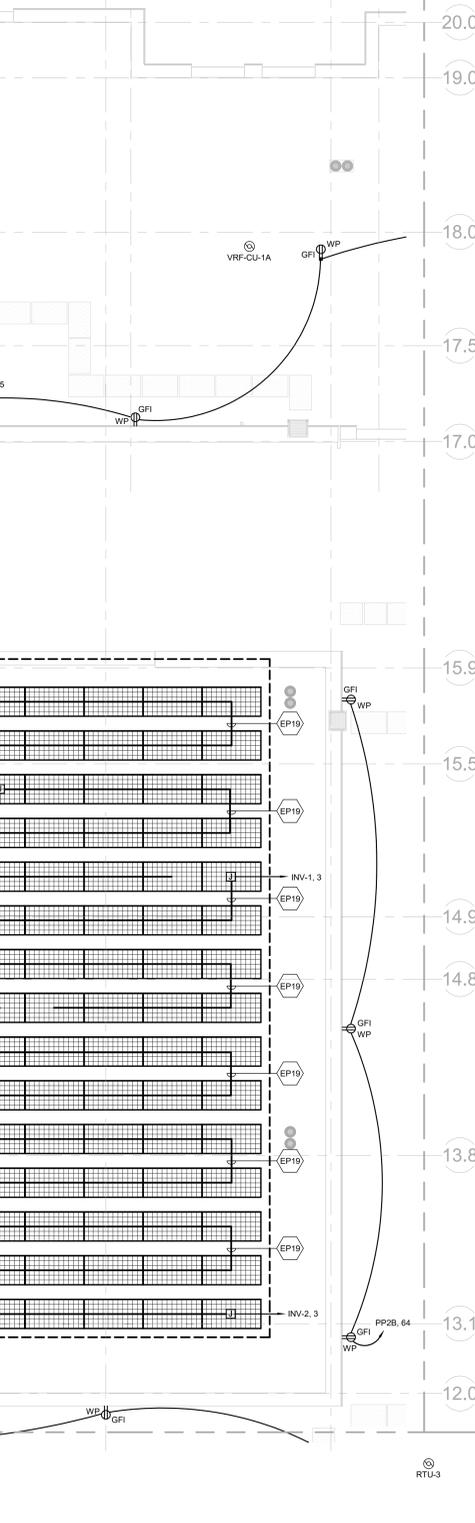
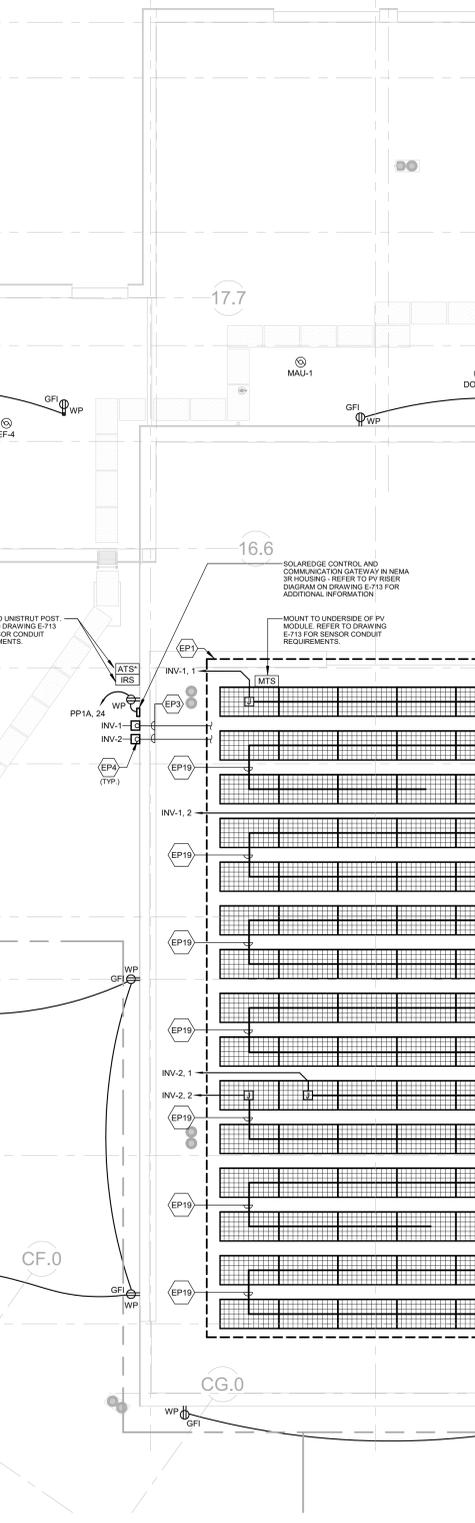
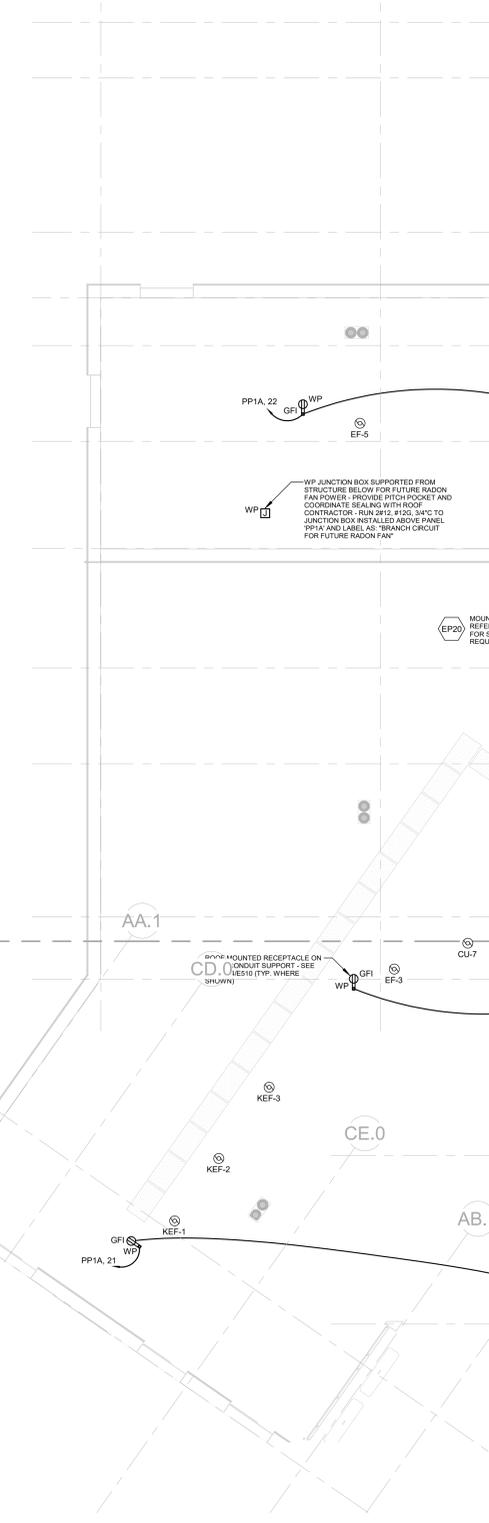
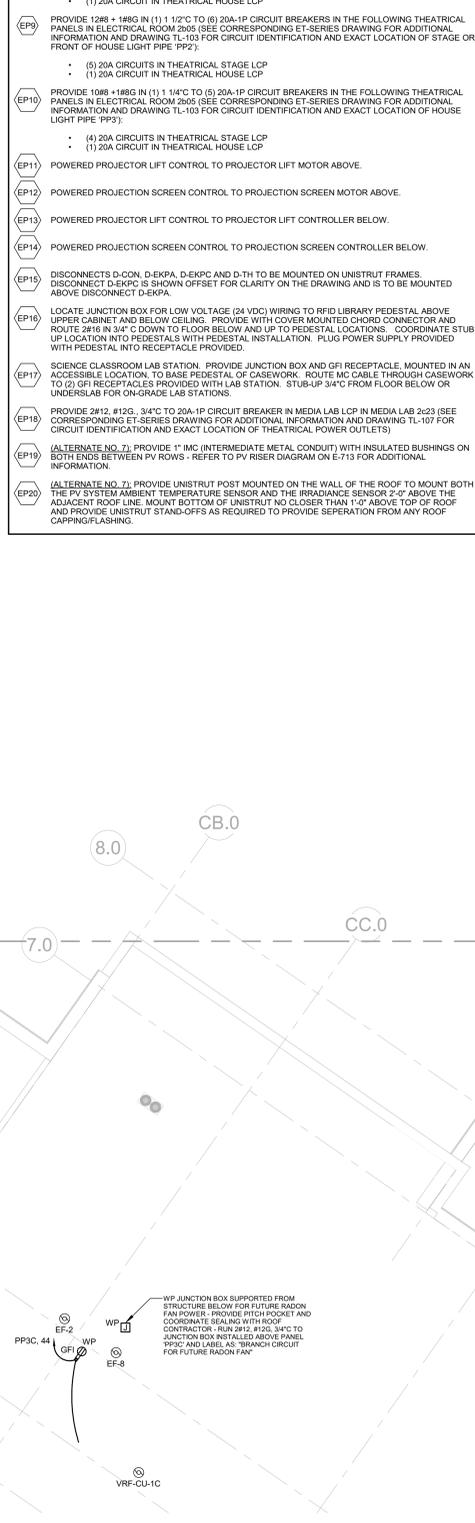
NOTE:
THE PHOTOVOLTAIC SYSTEM AS SHOWN ON THIS DRAWING IS PART OF ALTERNATE NO. 7 PACKAGE ONLY.

ELECTRICAL POWER KEY NOTES

- (EP1) (ALTERNATE NO. 7) PV ARRAY 1: 54.68KWDC SOLAR PV ARRAY CONSISTING OF 135 PV MODULES MOUNTED TO PV RACKING SYSTEM.
- (EP2) (ALTERNATE NO. 7) PV ARRAY 2: 49.00KWDC SOLAR PV ARRAY CONSISTING OF 121 PV MODULES MOUNTED TO PV RACKING SYSTEM.
- (EP3) (ALTERNATE NO. 7) ROOF MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE MOUNTED TO ROOF SUPPORTS PER ROOFING MANUFACTURER'S REQUIREMENTS. PROVIDE CIRCUITS AS INDICATED ON DRAWINGS AND PV RISER DIAGRAM ON E-713 FOR THIS ARRAY. PROVIDE PV WARNING LABELS.
- (EP4) (ALTERNATE NO. 7) WALL MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE PV WARNING LABELS.
- (EP5) AV RACK POWER. COORDINATE WITH RACK INSTALLATION.
- (EP6) PROVIDE 2#12, #12G, 3/4" TO 20A-1P CIRCUIT BREAKER IN THEATRICAL STAGE LCP IN ELECTRICAL ROOM 2005 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS)
- (EP7) TRENCH FLOOR AND PROVIDE (2) 1" CONDUITS FOR POWER TO NEAREST WALL. ROUTE CONDUIT AND WIRING IN WALL AND UP TO ABOVE ACCESSIBLE CEILING.
- (EP8) PROVIDE 6#12 + 1#12G IN (1) 1-1/4" TO (3) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2005 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF SIDE LIGHT PIPE "PP1"):
 - (2) 20A CIRCUITS IN THEATRICAL STAGE LCP
 - (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP
- (EP9) PROVIDE 12#8 + 1#8G IN (1) 1-1/2" TO (6) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2005 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF STAGE OR FRONT OF HOUSE LIGHT PIPE "PP2"):
 - (5) 20A CIRCUITS IN THEATRICAL STAGE LCP
 - (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP
- (EP10) PROVIDE 10#8 + 1#8G IN (1) 1-1/4" TO (5) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2005 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF HOUSE LIGHT PIPE "PP3"):
 - (4) 20A CIRCUITS IN THEATRICAL STAGE LCP
 - (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP
- (EP11) POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT MOTOR ABOVE.
- (EP12) POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN MOTOR ABOVE.
- (EP13) POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT CONTROLLER BELOW.
- (EP14) POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN CONTROLLER BELOW.
- (EP15) DISCONNECTS D-COL, D-EKPA, D-EKPC AND D-TH TO BE MOUNTED ON UNISTRUT FRAMES. DISCONNECT D-EKPC IS SHOWN OFFSET FOR CLARITY ON THE DRAWING AND IS TO BE MOUNTED ABOVE DISCONNECT D-EKPA.
- (EP16) LOCATE JUNCTION BOX FOR LOW VOLTAGE (24 VDC) WIRING TO RFID LIBRARY PEDESTAL ABOVE UPPER CABINET AND BELOW CEILING. PROVIDE WITH COVER MOUNTED CHORD CONNECTOR AND ROUTE #16 IN 3/4" C DOWN TO FLOOR BELOW AND UP TO PEDESTAL LOCATIONS. COORDINATE STUB UP LOCATION INTO PEDESTALS WITH PEDESTAL INSTALLATION. PLUG POWER SUPPLY PROVIDED WITH PEDESTAL INTO RECEPTACLE PROVIDED.
- (EP17) SCIENCE CLASSROOM LAB STATION. PROVIDE JUNCTION BOX AND GFI RECEPTACLE, MOUNTED IN AN ACCESSIBLE LOCATION. TO BASE PEDESTAL OF CASEWORK. ROUTE MC CABLE THROUGH CASEWORK TO (2) GFI RECEPTABLES PROVIDED WITH LAB STATION. STUB-UP 3/4" FROM FLOOR BELOW OR UNDERSLAB FOR ON-GRADE LAB STATIONS.
- (EP18) PROVIDE 2#12, #12G, 3/4" TO 20A-1P CIRCUIT BREAKER IN MEDIA LAB LCP IN MEDIA LAB 2-23 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-107 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS)
- (EP19) (ALTERNATE NO. 7) PROVIDE 1" IMC (INTERMEDIATE METAL CONDUIT) WITH INSULATED BUSHINGS ON BOTH ENDS BETWEEN PV ROWS. REFER TO PV RISER DIAGRAM ON E-713 FOR ADDITIONAL INFORMATION.
- (EP20) (ALTERNATE NO. 7) PROVIDE UNISTRUT POST MOUNTED ON THE WALL OF THE ROOF TO MOUNT BOTH THE PV SYSTEM AMBIENT TEMPERATURE SENSOR AND THE IRRADIANCE SENSOR 2'-0" ABOVE THE ADJACENT ROOF LINE. MOUNT BOTTOM OF UNISTRUT NO CLOSER THAN 1'-0" ABOVE TOP OF ROOF AND PROVIDE UNISTRUT STAND-OFFS AS REQUIRED TO PROVIDE SEPERATION FROM ANY ROOF CAPPING/FLASHING.

GENERAL NOTES - ELECTRICAL POWER

1. ALL CIRCUITS SHALL BE 2#12, #12G, 3/4" TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
2. ALL 120V BRANCH CIRCUITS THAT EXCEED 150' IN LENGTH SHALL BE 2#10, #10G, 3/4" UNLESS NOTED OTHERWISE.
3. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S)
4. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
5. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL FIXTURE SCHEDULE, ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
6. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT (HVAC, PLUMBING, FIRE PROTECTION, ETC.). REFER TO DRAWINGS FOR EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
7. ALL RECEPTABLES WITHIN 6'-0" OF A WATER SOURCE SHALL BE GFI TYPE OR PROTECTED BY A GFI CIRCUIT BREAKER.
8. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR RATED WALLS.
9. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUIT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING.
10. WIRE ELECTRIC CLOCKS (CL) TO NEAREST 120V RECEPTACLE CIRCUIT SERVING ROOM, UNLESS NOTED OTHERWISE.



1 NFHS ROOF LEVEL - ELECTRICAL POWER PLAN - AREA A
1/8" = 1'-0"

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GENERAL NOTES - ELECTRICAL POWER

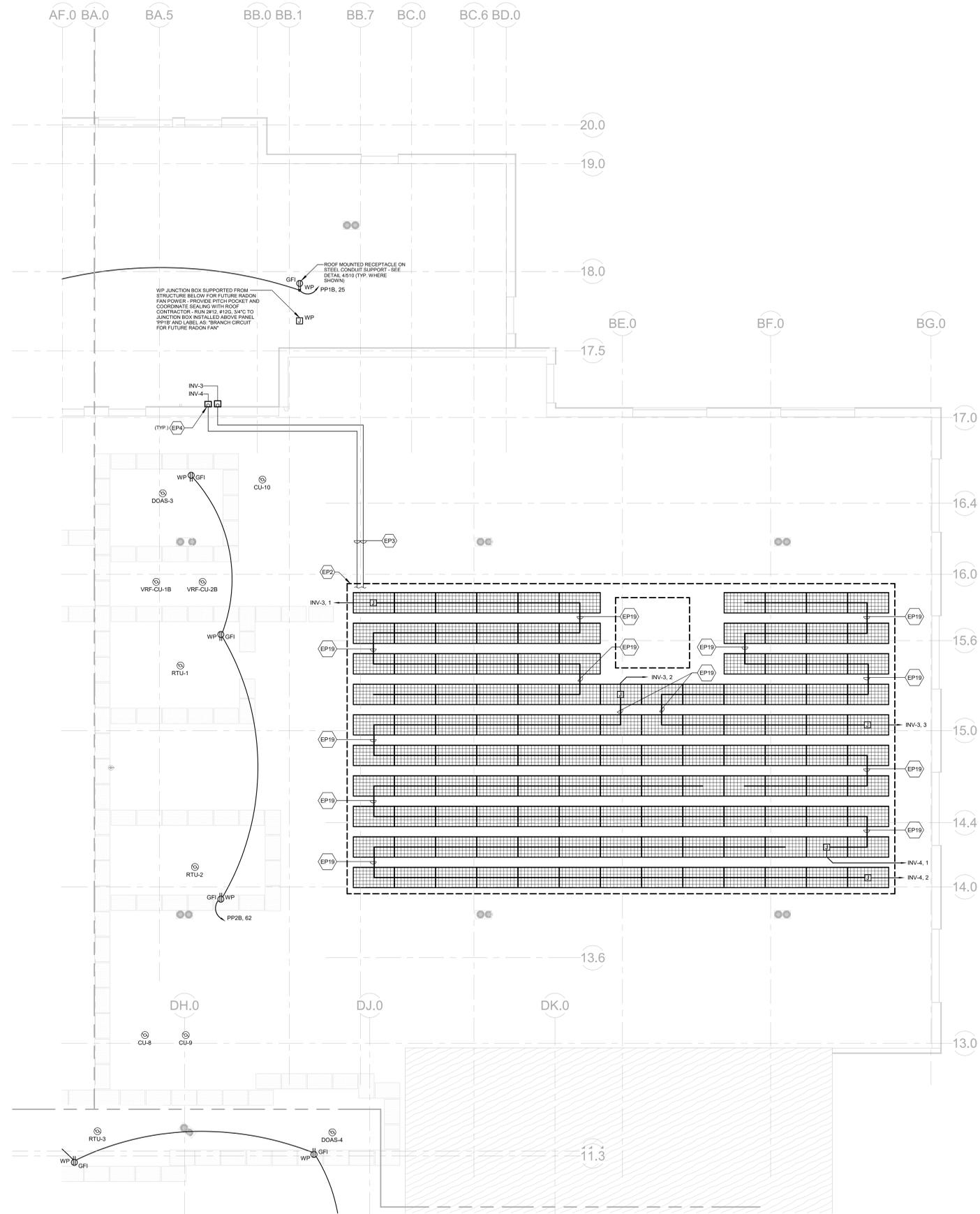
- ALL CIRCUITS SHALL BE 2#12,#12G, 3/4" C, TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL 120V BRANCH CIRCUITS THAT EXCEED 150' IN LENGTH SHALL BE 2#10,#10G, 3/4" C, UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
- REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL FIXTURE SCHEDULE, ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
- UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT (HVAC, PLUMBING, FIRE PROTECTION, ETC.). REFER TO DRAWINGS FOR EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- ALL RECEPTACLES WITHIN 6'-0" OF A WATER SOURCE SHALL BE GFI TYPE OR PROTECTED BY A GFI CIRCUIT BREAKER.
- PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR RATED WALLS.
- PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUIT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING.
- WIRE ELECTRIC CLOCKS (CL) TO NEAREST 120V RECEPTACLE CIRCUIT SERVING ROOM, UNLESS NOTED OTHERWISE.

ELECTRICAL POWER KEY NOTES

- (EP1) (ALTERNATE NO. 7) PV ARRAY 1: 54 80KWDC SOLAR PV ARRAY CONSISTING OF 135 PV MODULES MOUNTED TO PV RACKING SYSTEM.
- (EP2) (ALTERNATE NO. 7) PV ARRAY 2: 49 00KWDC SOLAR PV ARRAY CONSISTING OF 121 PV MODULES MOUNTED TO PV RACKING SYSTEM.
- (EP3) (ALTERNATE NO. 7) ROOF MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE MOUNTED TO ROOF SUPPORTS PER ROOFING MANUFACTURER'S REQUIREMENTS. PROVIDE CIRCUITS AS INDICATED ON DRAWINGS AND PV RISER DIAGRAM ON E-713 FOR THIS ARRAY. PROVIDE PV WARNING LABELS.
- (EP4) (ALTERNATE NO. 7) WALL MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE PV WARNING LABELS.
- (EP5) A/V RACK POWER. COORDINATE WITH RACK INSTALLATION.
- (EP6) PROVIDE 2#12, 3/4" C TO 20A-1P CIRCUIT BREAKER IN THEATRICAL STAGE LCP IN ELECTRICAL ROOM 2605 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS).
- (EP7) TRENCH FLOOR AND PROVIDE (2) 1" CONDUITS FOR POWER TO NEAREST WALL. ROUTE CONDUIT AND WIRING IN WALL AND UP TO ABOVE ACCESSIBLE CEILING.
- (EP8) PROVIDE 2#12 + 1#12G IN (1) 1-1/4" C TO (3) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2605 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF SIDE LIGHT PIPE PP1):
 - (2) 20A CIRCUITS IN THEATRICAL STAGE LCP
 - (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP
- (EP9) PROVIDE 1#28 + 1#8G IN (1) 1 1/2" C TO (6) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2605 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF STAGE OR FRONT OF HOUSE LIGHT PIPE PP2):
 - (5) 20A CIRCUITS IN THEATRICAL STAGE LCP
 - (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP
- (EP10) PROVIDE 1#88 + 1#8G IN (1) 1 1/4" C TO (5) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2605 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF HOUSE LIGHT PIPE PP3):
 - (4) 20A CIRCUITS IN THEATRICAL STAGE LCP
 - (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP
- (EP11) POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT MOTOR ABOVE.
- (EP12) POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN MOTOR ABOVE.
- (EP13) POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT CONTROLLER BELOW.
- (EP14) POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN CONTROLLER BELOW.
- (EP15) DISCONNECTS D-CON, D-EKPA, D-EKPC AND D-TH TO BE MOUNTED ON UNISTRUT FRAMES. DISCONNECT D-EKPC IS SHOWN OFFSET FOR CLARITY ON THE DRAWING AND IS TO BE MOUNTED ABOVE DISCONNECT D-EKPA.
- (EP16) LOCATE JUNCTION BOX FOR LOW VOLTAGE (24 VDC) WIRING TO RFID LIBRARY PEDESTAL ABOVE UPPER CABINET AND BELOW CEILING. PROVIDE WITH COVER MOUNTED CHORD CONNECTOR AND ROUTE 2#16 IN 3/4" C DOWN TO FLOOR BELOW AND UP TO PEDESTAL LOCATIONS. COORDINATE STUB UP LOCATION INTO PEDESTALS WITH PEDESTAL INSTALLATION. PLUG POWER SUPPLY PROVIDED WITH PEDESTAL INTO RECEPTACLE PROVIDED.
- (EP17) SCIENCE CLASSROOM LAB STATION. PROVIDE JUNCTION BOX AND GFI RECEPTACLE, MOUNTED IN AN ACCESSIBLE LOCATION, TO BASE PEDESTAL, OF CASEWORK. ROUTE MC CABLE THROUGH CASEWORK TO (2) GFI RECEPTACLES PROVIDED WITH LAB STATION. STUB-UP 3/4" C FROM FLOOR BELOW OR UNDERSLAB FOR ON-GRADE LAB STATIONS.
- (EP18) PROVIDE 2#12, 3/4" C TO 20A-1P CIRCUIT BREAKER IN MEDIA LAB LCP IN MEDIA LAB 2c23 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-107 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS).
- (EP19) (ALTERNATE NO. 7) PROVIDE 1" IMC (INTERMEDIATE METAL CONDUIT) WITH INSULATED BUSHINGS ON BOTH ENDS BETWEEN PV ROWS - REFER TO PV RISER DIAGRAM ON E-713 FOR ADDITIONAL INFORMATION.
- (EP20) (ALTERNATE NO. 7) PROVIDE UNISTRUT POST MOUNTED ON THE WALL OF THE ROOF TO MOUNT BOTH THE PV SYSTEM AMBIENT TEMPERATURE SENSOR AND THE IRRADIANCE SENSOR 2'-0" ABOVE THE ADJACENT ROOF LINE. MOUNT BOTTOM OF UNISTRUT NO CLOSER THAN 1'-0" ABOVE TOP OF ROOF AND PROVIDE UNISTRUT STAND-OFFS AS REQUIRED TO PROVIDE SEPERATION FROM ANY ROOF CAPPING/FLASHING.

GENERAL NOTES - ELECTRICAL ALTERNATE NO. 7

NOTE:
THE PHOTOVOLTAIC SYSTEM AS SHOWN ON THIS DRAWING IS PART OF ALTERNATE NO. 7 PACKAGE ONLY.



1 NFHS ROOF LEVEL - ELECTRICAL POWER PLAN - AREA B
1/8" = 1'-0"

New Fairfield High School & Pool Locker Rooms

54 Gillotti Rd.
New Fairfield, CT 06812

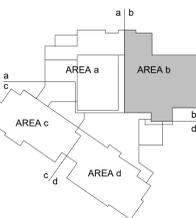
091-00404 &
091-004607

JCJ ARCHITECTURE

120 HUYSHOPE AVENUE
SUITE 400
HARTFORD, CT 06106
860.247.9226

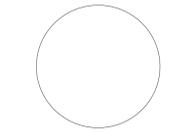
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CONSULTANT:
Consulting Engineering Services, Inc.
811 Middle Street
Middletown CT 06457
860.532.1682
ceseng.com
CES #2020128.01



KEY PLAN

BID SET
06/07/2021



ISSUE	ISSUED FOR BID
JOB	2020128.01
DRAWN	MAL
SCALE	As indicated
REVISIONS	

ELECTRICAL POWER PLAN - ROOF LEVEL AREA B

EP-114b

**NEW FAIRFIELD PUBLIC SCHOOLS
CAPITAL IMPROVEMENT PLAN
2024-2025 through 2028-2029**

PROJECTS FUNDED AND COMPLETED IN 2023-2024

2023-2024	SCHOOL	PROJECT	COSTS
Complete	Middle School	Remove and Replace Flooring in the Cafeteria and G Lobby area	62,000
Complete	Middle School	Study of MS Programmatic Space Needs (Old HS Cafe & Facility Maint. Garage)	15,000
Deferred	Middle School	Masonry	25,000
Complete	Meeting House Hill School	Install new AC units in 4 Classrooms	33,000
Complete	Meeting House Hill School	Install AC unit in the STEAM Room	12,000
Complete	District Wide	Trade-in and Replace F350 Dump Truck, Plow and Sander	60,675
			207,675

PROJECTS FUNDED AND TO BE COMPLETED IN 2024-2025

2024-2025	SCHOOL	PROJECT	COSTS
In Process	District Wide	Replace Student Transportation Van	50,000
In Process	High School	Replace Stadium Turf & Track (reflects offset from Field Fees)	600,000
In Process	Middle School	Creation of Middle School Outdoor Recess Space - Masonry	25,000
In Process	Middle School	Replace 4 Classroom Carpets	9,000
Complete	Middle School	Replace Intercom Front End, Classroom Speakers and Phones	33,327
In Process	Middle School	District Storage Garage	25,000
Complete	Middle School	Create STEAM Classroom in previous SOC location	52,250
			794,577

ONGOING CAPITAL IMPROVEMENTS

YEAR REQUESTED	SCHOOL	PROJECT	* ESTIMATED COSTS
2025-2026	Middle School	Remove & Replace 10,000 GAL. Underground Heating Oil Tank	465,000
	Middle School	Conversion of MS cafeteria into music classrooms	TBD
	District Wide	Annual Contribution for Turf Replacement	50,000
	District Wide	Replace Buildings and Grounds Rack Truck	60,000
	District Wide	Safety and Security Investments	TBD
2026-2027	High School	Replace Old HS Gym HVAC Systems	330,000
	Middle School	Replace 25 exterior Door Units	175,000
	Middle School	Replace Pool HV & Dehumidification Unit	225,000
	District Wide	Flooring System Replacements	60,000
	District Wide	Annual Contribution for Turf Replacement	50,000
			840,000
2027-2028	Elementary School	Engineer renovation to the Waste Water Pre Treatment Plant	50,000
	Elementary School	Install Central AC system on Second floor	200,000
	Middle School	Replace 100 window shade units	50,000
	Middle School	Replace Fire Alarm System	275,000
	Middle School	Feasibility Study for MS Renovate as New: Roof, Mechanicals, Classrooms	75,000
	District Wide	Annual Contribution for Turf Replacement	50,000
			700,000
2028-2029	District Wide	Replace parking lot and Roadway Paving	350,000
	High School	Replace Rebel Turf (reflect offset for Field Fees)	300,000
TOTAL ONGOING CAPITAL IMPROVEMENTS			1,975,000

NOTES:

* **Dollar figures are estimates only**; detailed design, planning, and more accurate financial projections are developed after a design professional is hired. Also, with any building project there is a significant risk of escalation if PCB's and/or asbestos are discovered.

MEMORANDUM OF AGREEMENT
IT Shared Services

This Memorandum of Agreement for Information Technology ("IT") Shared Services (the "Agreement") is entered into by and between the New Fairfield Board of Education (hereinafter, the "Board") and the Town of New Fairfield (hereinafter, the "Town"), each of which may be referred to as a "Party" and which may be collectively referred to as the "Parties".

BACKGROUND

WHEREAS, the Board and the Town agree that maintaining a shared IT network is an efficient and cost effective means of providing high-quality IT services to both Parties; and

WHEREAS, the Board and the Town wish to establish the terms and conditions which shall govern the operation of the shared IT network;

NOW THEREFORE, the Parties do hereby agree as follows:

1. Network operations, which are currently hubbed at New Fairfield High School, will continue to hubbed as such, and the Town will be authorized to utilize the implicated equipment (inclusive of ISP, HA Firewall, Core switching/routing, Controllers/Authentication, Camera server and others) to the extent permitted by law as part of the shared IT services arrangement.
2. The Board's Director of Technology shall be responsible for budgetary services, as well as installation and implementation of all core networking equipment (e.g., Core Switches, Edge Switches, Access Points, Firewalls) to ensure continuity and compatibility with network operations.
3. The Town shall employ a Network Administrator, who will report to the First Selectman. The Network Administrator position is intended to replace the Town Computer Technician position that previously reported to the Board.
4. The Network Administrator shall be responsible for all day-to-day network operations associated with the Town, for appropriately addressing any after-hours outages and for ensuring coverage during any periods of leave or paid time off.
5. The Board's IT staff will provide, subject to availability and with advanced scheduled notice, operational support for large-scale projects or implementation activities which require additional technician support.
6. The Board's IT staff will also provide operational support in instances of unique or large-scale emergent operations (e.g., 2018 microburst tornado).

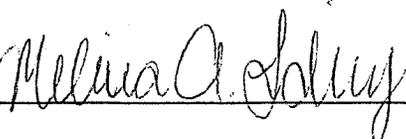
7. Each Party shall be fully responsible for the salaries of its respective employees.
8. The Parties agree that, at all times during the term of this Agreement, they shall comply with any and all applicable federal, state, and local laws, regulations, guidance, or other applicable legal authority, including, without limitation, any obligations arising under grant programs and any applicable policies of the Board. The Parties expressly acknowledge the requirements of the Family Educational Rights and Privacy Act ("FERPA") regarding the confidentiality of student records and agree to comply with such requirements at all times during the term of this Agreement.
9. The term of this Agreement shall commence upon execution by the last of the Parties to execute the Agreement and shall continue until it is terminated by either Party. The Agreement maybe terminated by either Party for any reason upon sixty (60) days' notice.
10. Nothing in this Agreement shall be interpreted or construed as creating or establishing the relationship of employer and employee between Board and any Town employee or between the Town and any Board employee. Each Party acknowledges its intent that its own employees shall not be considered employees of the other Party for federal or state tax purposes and shall not be eligible for any employee benefits offered by the other Party.
11. This Agreement and any appendices, exhibits, and/or attachments hereto set forth the entire understanding between the Parties with respect to all matters referred to in this Agreement.
12. If any provision of this Agreement is found to be invalid or illegal by a court of competent jurisdiction, the remaining provisions shall remain in full force and effect, and the Parties agree to substitute for the invalid provision another which most closely effectuates the legal and economic intent of the invalid provision within the bounds of the law.
13. Any modification of this Agreement will be effective only if it is in writing signed by the Party to be charged.

IN WITNESS WHEREOF, the Parties, through their duly authorized agents, set their hands on the dates set forth below.

New Fairfield Board of Education

By  Date 12/4/24

Town of New Fairfield

By  Date 12/4/24

Shared Services Agreement
Financial Services

Effective 7/1/06, the combined Finance office consists of the following positions:

1. Director of Finance. This is a 40 hour per week Town position, reporting directly to the First Selectman, with additional reporting to the Superintendent of Schools, Board of Finance and Treasurer when required. This position is included in the establishment of the total Finance office allocation rate to be charged to the Town and to the BOE.
2. Director of Management Services (DMS). This is a 40-hour per week Board of Education position, reporting directly to the Superintendent of Schools, with additional reporting to the First Selectman for Human Resource matters and to the Director of Finance for financial matters. This position is charged 70% to the BOE and 30% to the Town. (See separate page entitled "Director of Management Services" for specifics on this position.)
3. The following are the remaining combined Finance office positions.
One (1) each: Accounting Manager
Purchasing Agent / Contracts Administrator
Payroll Specialist

Four (4) Accounting Clerks responsible mainly for Town and BOE
Accounts Payable, general cashier/revenue, general ledger/account
reconciliation.

The above 7 positions are all 35.5 hours per week Town positions, reporting directly to either the Director of Finance or the Accounting Manager. These positions are included in the establishment of the total Finance office allocation rate to be charged to the Town and the BOE.

Such allocation rate is determined as follows:

Annually, the Director of Finance shall, to the extent possible, review time breakouts between the BOE and the Town for each of the Finance office positions, with the exception of the position of Director of Management Services. Since the Director of Management Services also performs Human Resource services, which is an entirely separate department, his/her allocation percentage shall be separately determined. All remaining Finance office staff time breakouts shall be aggregated by percentage, then divided by eight for the eight positions being allocated. The charge-back percentage can fluctuate by up to 5% before a change in the allocation percentage need be made. Changes in the allocation percentage must be approved by both the BOE and the BOS.

Prepared by: Mary Anne Wiesner
Finance Director

FY 24 Unexpended Funds Proposed Allocation Pending Audit

Public Act No. 24-45, Sections 7 and 8, authorizes the Board of Education to deposit fiscal year 2023-24 unexpended funds of approximately \$209K into its capital and non-lapsing account provided that the amount does not exceed two percent of the budgeted appropriation for fiscal year 2023-24. The projected \$209K represents less four tenths of a percent (.4%) of the fiscal year 2023-24 budget; therefore, the full amount is eligible to be deposited into the account by the Board of Education.

The new law permits the Board of Education to use the funds for educational expenditures and capital and non-recurring expenditures. Pending the final audit for fiscal year 2023-24, the administration is recommending that the Board of Education deposit unexpended funds into its capital and non-recurring account and authorize the following expenditures totaling \$209,768:

Unanticipated Expense	Amount	Explanation
Trailer Install	\$8,000	Set-up cost for a new bus trailer as a result of the project no longer covering this cost.
Bus Trailer Rental	\$16,000	Annual rental cost due to the continued delay of the permanent bus lot location.
Bus Parking Lot Modification	\$1,500	Costs to safely accommodate the new bus trailer.
Stadium Lights Removal	\$7,750	Cost to remove old stadium lighting
Fiber Lease	\$13,500	Cost to maintain fiber lease as a result of the building project
Elevator Repair	\$20,210	Cost to repair MS elevator adjacent to the rear parking lot near the pool entrance.
Degree Upgrades (2024-25)	\$60,000	Confirmed Degree updates by Oct. 1 Deadline

Non-Certified Retirement Benefit	\$20,000	Pay out for retirees in accordance with non-certified union contracts
Title Grants	\$27,000	FY25 loss of federal funding
Restoration of Middle School Classrooms	\$35,808	Required to establish appropriate classroom space for orchestra, chorus, general music, gifted & talented and world language programs.
Total	\$209,768	