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**ROOF REPLACEMENT AND PHOTOVOLTAIC PROJECT**

**JULIET LONG SCHOOL**  
**1854 Route CT-12**  
**Ledyard, Connecticut 06335**  
**STATE PROJECT NO. 072-0096 RR/PV**

S/P+A PROJECT NO. 22.331

**DATE: April 19, 2024**

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum #2.

**General Information/Clarifications:**

- RFI's and responses as indicated in the attached RFI Log are a part of this Addendum. (1 page)
- The Prebid Meeting Sign in Sheet is attached as part of this addendum (1 page)
- Electrical bills referenced in the RFI Log above are attached to this addendum (39 pages)

**Changes to the Specifications:**

- SECTION 262413, SWITCHBOARDS, is deleted in its entirety and replaced with SECTION 262413 SWITCHBOARDS – REVISED which is attached to this addendum. (13 pages)

**Changes to the Drawings:**

- DRAWING C1, CODE INFORMATION is deleted in its entirety and replaced with DRAWING C1, CODE INFORMATION, Rev Block dated 4/19/24, which is attached to this addendum (1 drawing)
- DRAWING A1, OVERALL ROOF PLAN is deleted in its entirety and replaced with DRAWING A1, OVERALL ROOF PLAN, Rev Block dated 4/19/24, which is attached to this addendum (1 drawing)
- DRAWING A2, ROOF DETAILS is deleted in its entirety and replaced with DRAWING A2, ROOF DETAILS, Rev Block dated 4/19/24, which is attached to this addendum (1 drawing)
- DRAWING E2, PV SYSTEM SCHEMATIC is deleted in its entirety and replaced with DRAWING E2, PV SYSTEM SCHEMATIC, Rev Block dated 4/19/24, which is attached to this addendum (1 drawing)

**The bid date remains unchanged by this addendum.**

The addendum consists of fifty-five (55) pages of 8½" x 11" text and four (4) drawings.  
End of Addendum #2



**SILVER PETRUCELLI + ASSOCIATES**  
 3190 Whitney Avenue | Hamden CT 06518  
 311 State Street | New London CT 06320

**BID RFI LOG**

Project: ROOF REPLACEMENT AND PHOTOVOLTAIC PROJECT

**JULIET LONG SCHOOL**

State Project No. 072-0096 RR/PV

S/P+A Project #: 22.331

RFI Deadline: **5/2/24, 3:00 pm**

Bids Due: **5/3/24, 3:00 PM**

RFI #	QUESTION	DATE RECEIVED	RESPONSE	ADDENDUM # ISSUED
001	Would you please verify the DAS Classification for the project? In the Revised Invitation to Bid it states that classifications in Roofing and Solar Electric are required as a minimum. In the Supplementary Instructions to Bidders, Article 9, 9.10 DAS, it states the classification General Construction B is required as a minimum.	04/10/24	In Supplementary Instructions to Bidders, Article 9.10, delete "General Construction B" and insert "Roofing and Solar Electric"	#2 Issued 4/19/24
002	you had planned on e-mailing me the electrical bills for the two schools. That would be helpful because it provides me a lot of information.	02/17/24	Electric bills are provided as a part of this Addendum	#2 Issued 4/19/24
003	In addition, it appears we may have a problem meeting your requirement for specific panels. Your RFP states that the panels should be Phono Solar, Jinko Solar, Vikram Solar or Hanwa Q cells. (585's) We do not agree that 585's are the best sized panels for this project and we also do not have any of those panels, either in our inventory or in our procurement schedule. Generally clients do not insist on specific panels just that they meet Tier one specifications.	02/17/24	If panels meet the Tier one specifications then they are acceptable. The high wattage panel specified was used to produce as much energy as possible to offset the building electricity usage. If lower wattage panels are used, but meet the same system output that is acceptable.	#2 Issued 4/19/24
004	Are the panels listed a definite requirement or is there flexibility for Greenskies to use Canadian Solar panels. After working with 42 municipalities in Connecticut including Ledyard,, which is far more than any other developer this is the first time to my knowledge, an RFP has limited which panels we are to use as the clients generally rely on our expertise in this area.	02/17/24	Panel manufacturers listed are not a definite requirement, due to availability, lead time, etc. other Tier One manufacturers are acceptable, such as Canadian Solar panels.	#2 Issued 4/19/24

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518  
 311 STATE STREET NEW LONDON CT 06320  
 203 230 9007 silverpetrucelli.com



TOWN: Ledyard  
 PROJECT: BOE & 2 School Roofs

Pre-Bid Sign-in Sheet  
 April 12, 2024

10:00 AM

NAME	COMPANY	PHONE	EMAIL
Mike Borwinski	GreenSkies	(460) 308-4471	M.Borwinski@GreenSkies.com
Brandon Olsen	Greenwood Industries	974 670-1602	bolsen@greenwood-industries.com
Jason Zajac	Green Skies	(860) 230 8382	Jason.Zajac@greenskies.com
HARRY Shea	J.F. SHEA ELEC	(860) 621-7709 <sup>ex 304</sup>	harry@jesheaelectrical.com
Gavin Paquette	Com. Roofing	(860) 928-9199	COZ@COMROOFING.COM
matth Roberts	GoldScal Roofing	(860) 484-8430	mrroberts@gsroofs.com
Oleg Volinucki	4 You LLC	(203) 323-7876	infoforyoullc@gmail.com
Jeremy Cogdill	Garland	(802) 598-2974	jcogdill@garlandco.com
Branden Johnson	Garland	(860) 827-7976	Bjohnson@garlandco.com
Bruce Faulkner	Imperial	(401) 632-2221	bruce@theimperialco.com
Josh Batchelor	Silkstern Roofing	(413) 210-3757	Josh.batchelor@silksternroofing.com
John	All Seasons	(860) 471-4626	JohnS@ascille.com
Bonnie Hansen	Pawcatuck Roofing	860 599-1024	bonnieHprc@gmail.com
		( )	
		( )	
		( )	

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 10/24/22

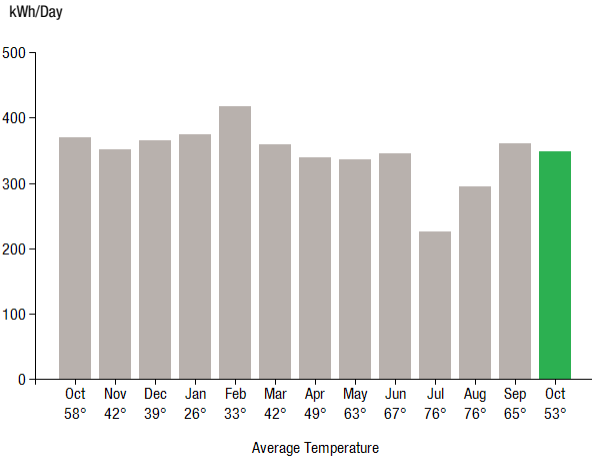
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 12/23/22

**\$1,814.28**

Amount Due On 10/19/22	\$3,772.41
Last Payment Received On 10/17/22	-\$3,772.41
Balance Forward	\$0.00
Total Current Charges	\$1,814.28

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

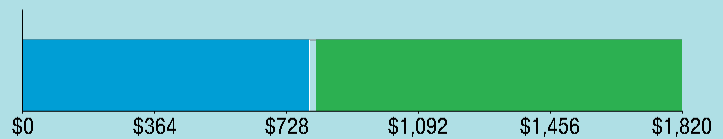
**\$791.28**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$1,023.00**

Cost to deliver electricity  
from Eversource



### Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**348.0 kWh**

This month you used  
**5.9% less**  
than at the  
same time last year



## News For You

Many Americans are facing challenging times, and no one wants to see rising energy bills. Right now, the increased cost of natural gas is having the largest impact on electric supply and overall energy bills, and that is likely to continue. Check out a quick video to help you to understand energy supply pricing and how you can manage your bill at [Eversource.com/price](https://www.eversource.com/price).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 11/21/22.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://www.eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 12/23/22

**\$1,814.28**

**Amount Enclosed**

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001814284 0001814284

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 10/24/22

Service Provided To:  
BOARD OF EDUCATION

Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335

Serv Ref: 304102007 Bill Cycle: 14  
Service from 09/21/22 - 10/20/22 29 Days

Next read date on or about: Nov 18, 2022

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	5941	5689	252	Actual

Cust provided ID: JULIET LONG SCHOOL

Total Demand Use = 37.10 kW

252 X Meter Constant of 40 = 10,080 Billed Usage

## Monthly kWh Use

Oct	Nov	Dec	Jan	Feb	Mar	Apr
10720	10200	11680	11600	12120	11120	10520
May	Jun	Jul	Aug	Sep	Oct	
9760	11040	6760	9440	10800	10080	

## Contact Information

Emergency: 800-286-2000

www.eversource.com

Pay by Phone: 888-783-6618

Customer Service: 888-783-6617

Total Amount Due  
by 12/23/22

**\$1,814.28**

## Electric Account Summary

Amount Due On 10/19/22	\$3,772.41
Last Payment Received On 10/17/22	-\$3,772.41
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$791.28
Delivery Services	\$1,023.00
Total Current Charges	\$1,814.28
<b>Total Amount Due</b>	<b>\$1,814.28</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	10080.00kWh X \$0.07850	\$791.28
Subtotal Supplier Services		\$791.28

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	10080.00kWh X \$0.03125	\$315.00
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	10080.00kWh X \$0.04701	\$473.86
Electric Sys Improvements***	10080.00kWh X \$0.00803	\$80.94
Revenue Adj Mechanism	10080.00kWh X \$0.00192	\$19.35
CTA Chrg per kWh	10080.00kWh X \$-0.00037	-\$3.73
Comb Public Benefit Chrg*	10080.00kWh X \$0.00720	\$72.58
Subtotal Delivery Services		\$1,023.00
<b>Total Cost of Electricity</b>		<b>\$1,814.28</b>

## Total Current Charges

**\$1,814.28**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0014 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 10/24/22

Service Provided To:  
BOARD OF EDUCATION

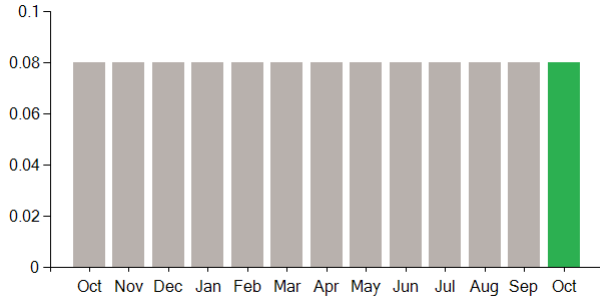
Total Amount Due  
by 12/23/22

**\$1,814.28**

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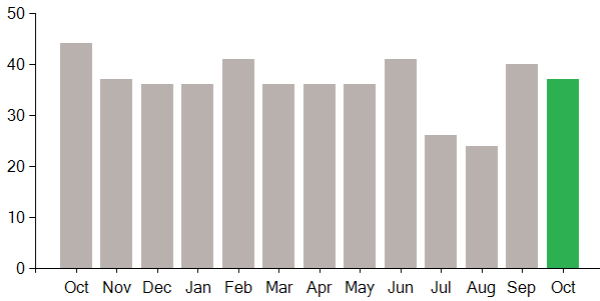
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 11/18/22

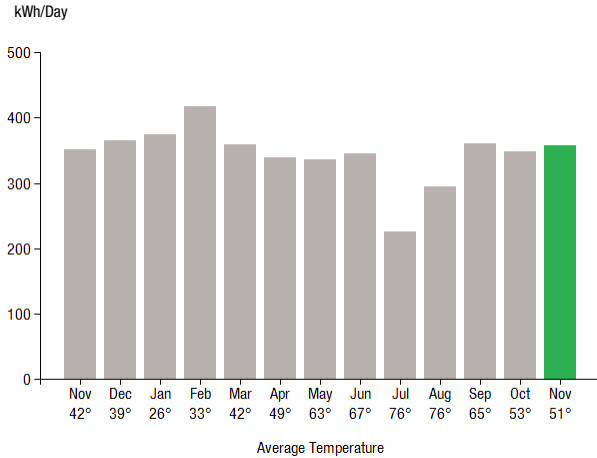
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 01/17/23

**\$3,677.15**

Amount Due On 11/21/22	\$1,814.28
Last Payment Received	\$0.00
Balance Forward	\$1,814.28
Total Current Charges	\$1,862.87

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

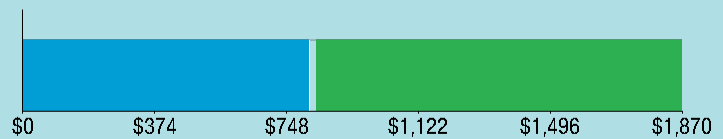
**\$813.26**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$1,049.61**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**357.0 kWh**

This month you used  
**1.4% more**  
than at the  
same time last year



## News For You

Many Americans are facing challenging times, and no one wants to see rising energy bills. Right now, the increased cost of natural gas is having the largest impact on electric supply and overall energy bills, and that is likely to continue. Check out a quick video to help you to understand energy supply pricing and how you can manage your bill at [Eversource.com/price](https://www.eversource.com/price).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 12/16/22.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://www.eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 01/17/23

**\$3,677.15**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0003677159 0001862872

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 11/18/22

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 10/20/22 - 11/18/22** **29 Days**  
**Next read date on or about: Dec 20, 2022**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	6200	5941	259	Actual

Cust provided ID: JULIET LONG SCHOOL

Total Demand Use = 36.30 kW

259 X Meter Constant of 40 = 10,360 Billed Usage

## Monthly kWh Use

Nov	Dec	Jan	Feb	Mar	Apr	May
10200	11680	11600	12120	11120	10520	9760
Jun	Jul	Aug	Sep	Oct	Nov	
11040	6760	9440	10800	10080	10360	

## Contact Information

Emergency: 800-286-2000

www.eversource.com

Pay by Phone: 888-783-6618

Customer Service: 888-783-6617

**Total Amount Due  
by 01/17/23**

**\$3,677.15**

## Electric Account Summary

Amount Due On 11/21/22	\$1,814.28
Last Payment Received	\$0.00
Balance Forward	\$1,814.28
Current Charges/Credits	
Electric Supply Services	\$813.26
Delivery Services	\$1,049.61
Total Current Charges	\$1,862.87
<b>Total Amount Due</b>	<b>\$3,677.15</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	10360.00kWh X \$0.07850	\$813.26
Subtotal Supplier Services		\$813.26

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	10360.00kWh X \$0.03125	\$323.75
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	10360.00kWh X \$0.04701	\$487.02
Electric Sys Improvements***	10360.00kWh X \$0.00803	\$83.19
Revenue Adj Mechanism	10360.00kWh X \$0.00192	\$19.89
CTA Chrg per kWh	10360.00kWh X \$-0.00037	-\$3.83
Comb Public Benefit Chrg*	10360.00kWh X \$0.00720	\$74.59
Subtotal Delivery Services		\$1,049.61
<b>Total Cost of Electricity</b>		<b>\$1,862.87</b>

**Total Current Charges** **\$1,862.87**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0014 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.





Account Number: **5113 769 2026**  
 Customer name key: EDUC  
 Statement Date: 11/18/22  
 Service Provided To:  
 BOARD OF EDUCATION

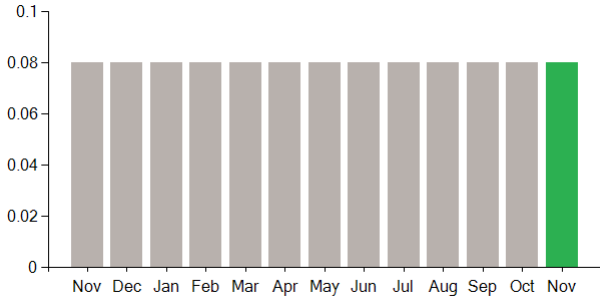
Total Amount Due  
 by 01/17/23

**\$3,677.15**

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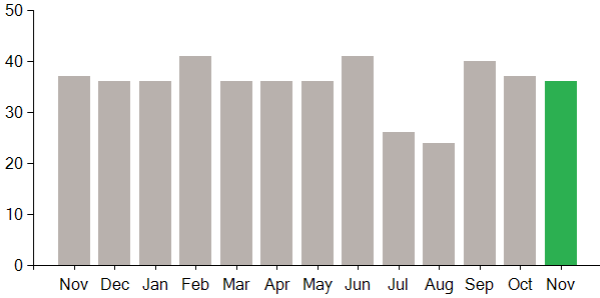
**Supply Rate**

Dollars / kWh



**Demand Profile**

Max. Demand



**Important Messages About Your Account**

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 12/20/22

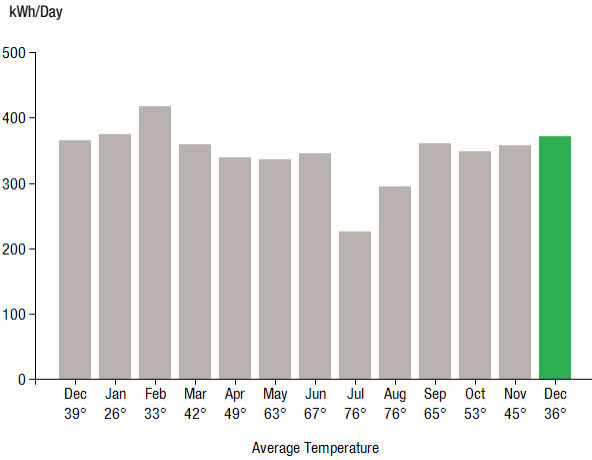
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 02/18/23

**\$5,803.81**

Amount Due On 12/16/22	\$3,677.15
Last Payment Received	\$0.00
Balance Forward	\$3,677.15
Total Current Charges	\$2,126.66

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

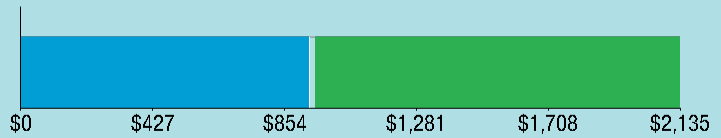
**\$932.58**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$1,194.08**

Cost to deliver electricity  
from Eversource



### Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**371.0 kWh**

This month you used  
**1.6% more**  
than at the  
same time last year



## News For You

We know you count on us every day for the energy you need to keep warm. We offer programs to help you manage your energy bills. If you or someone you know is struggling to keep up with energy bills, even if you never have before, connect with us to get assistance. There is a plan for everyone. Visit [Eversource.com/billhelp](https://Eversource.com/billhelp).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 01/17/23.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://Eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 02/18/23

**\$5,803.81**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0005803815 0002126663

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 12/20/22

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 11/18/22 - 12/20/22** **32 Days**  
**Next read date on or about: Jan 20, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	6497	6200	297	Actual

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 35.10 kW  
297 X Meter Constant of 40 = 11,880 Billed Usage

## Monthly kWh Use

Dec	Jan	Feb	Mar	Apr	May	Jun
11680	11600	12120	11120	10520	9760	11040
Jul	Aug	Sep	Oct	Nov	Dec	
6760	9440	10800	10080	10360	11880	

## Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

**Total Amount Due  
by 02/18/23**

**\$5,803.81**

## Electric Account Summary

Amount Due On 12/16/22	\$3,677.15
Last Payment Received	\$0.00
Balance Forward	\$3,677.15
Current Charges/Credits	
Electric Supply Services	\$932.58
Delivery Services	\$1,194.08
Total Current Charges	\$2,126.66
<b>Total Amount Due</b>	<b>\$5,803.81</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	11880.00kWh X \$0.07850	\$932.58
Subtotal Supplier Services		\$932.58

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	11880.00kWh X \$0.03125	\$371.25
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	11880.00kWh X \$0.04701	\$558.48
Electric Sys Improvements***	11880.00kWh X \$0.00803	\$95.40
Revenue Adj Mechanism	11880.00kWh X \$0.00192	\$22.81
CTA Chrg per kWh	11880.00kWh X \$-0.00037	-\$4.40
Comb Public Benefit Chrg*	11880.00kWh X \$0.00720	\$85.54
Subtotal Delivery Services		\$1,194.08
<b>Total Cost of Electricity</b>		<b>\$2,126.66</b>

### Total Current Charges

**\$2,126.66**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0014 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 12/20/22

Service Provided To:  
BOARD OF EDUCATION

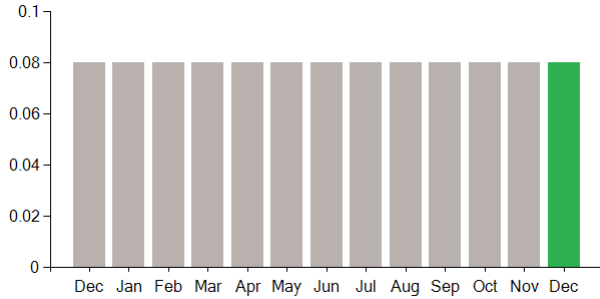
Total Amount Due  
by 02/18/23

**\$5,803.81**

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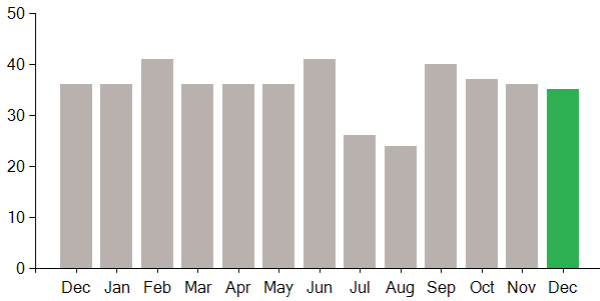
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 01/20/23

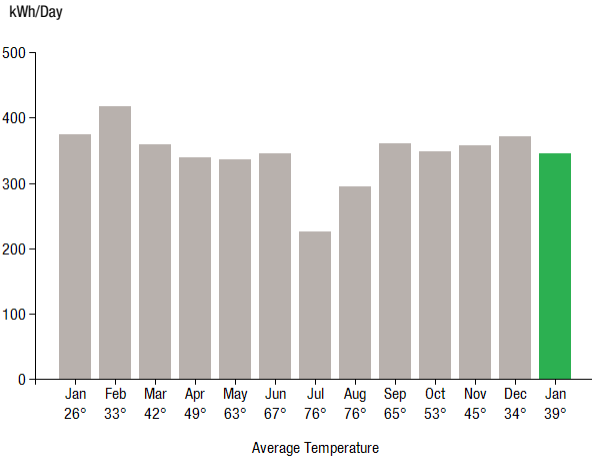
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 03/21/23

**\$1,827.62**

Amount Due On 01/17/23	\$5,803.81
Last Payment Received On 01/12/23	-\$5,803.81
Balance Forward	\$0.00
Total Current Charges	\$1,827.62

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

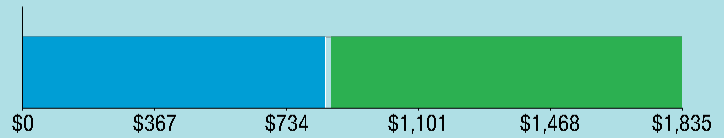
**\$841.52**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$986.10**

Cost to deliver electricity  
from Eversource



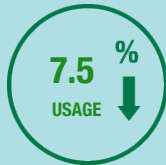
Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**346.0 kWh**

This month you used  
**7.5% less**  
than at the  
same time last year



## News For You

Beginning Jan.1, if you've chosen Eversource as your energy supplier, the Standard Service supply rate will increase. How much you pay will depend on how much energy you use and weather conditions. To learn about the programs we offer to help manage your energy use and help you pay your bill this winter, visit [Eversource.com/winter-bill](http://Eversource.com/winter-bill).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

CE\_230120PROD.TXT

# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 02/17/23.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](http://Eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 03/21/23

**\$1,827.62**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001827626 0001827626

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 01/20/23

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12**  
**GALES FERRY CT 06335**  
**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 12/20/22 - 01/20/23** **31 Days**  
**Next read date on or about: Feb 17, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	6765	6497	268	Actual

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 35.80 kW  
268 X Meter Constant of 40 = 10,720 Billed Usage

Monthly kWh Use						
Jan	Feb	Mar	Apr	May	Jun	Jul
11600	12120	11120	10520	9760	11040	6760
Aug	Sep	Oct	Nov	Dec	Jan	
9440	10800	10080	10360	11880	10720	

### Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

Total Amount Due  
by 03/21/23

**\$1,827.62**

### Electric Account Summary

Amount Due On 01/17/23	\$5,803.81
Last Payment Received On 01/12/23	-\$5,803.81
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$841.52
Delivery Services	\$986.10
Total Current Charges	\$1,827.62
<b>Total Amount Due</b>	<b>\$1,827.62</b>

### Total Charges for Electricity

#### Supplier

CONSTELLATION NEWENERGY		
Service Reference: 304102007		
Generation Srvc Chrg**	10720.00kWh X \$0.07850	\$841.52
Subtotal Supplier Services		\$841.52

#### Delivery

(DISTRIBUTION RATE: 040)		
Service Reference: 304102007		
Transmission Chrg	10720.00kWh X \$0.03125	\$335.00
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	10720.00kWh X \$0.04701	\$503.95
Electric Sys Improvements***	10720.00kWh X \$0.00803	\$86.08
Revenue Adj Mechanism	10720.00kWh X \$0.00192	\$20.58
CTA Chrg per kWh	10720.00kWh X \$-0.00037	-\$3.97
FMCC Delivery Chrg	6916.10kWh X \$-0.01413	-\$97.72
Comb Public Benefit Chrg*	10720.00kWh X \$0.00720	\$77.18
Subtotal Delivery Services		\$986.10
<b>Total Cost of Electricity</b>		<b>\$1,827.62</b>

**Total Current Charges \$1,827.62**

CE\_230120PROD.TXT

\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0015 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 01/20/23

Service Provided To:  
BOARD OF EDUCATION

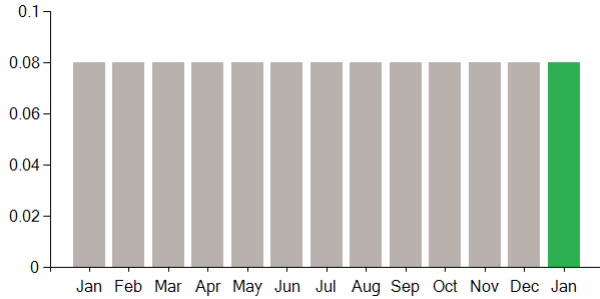
Total Amount Due  
by 03/21/23

**\$1,827.62**

Continued from previous page...

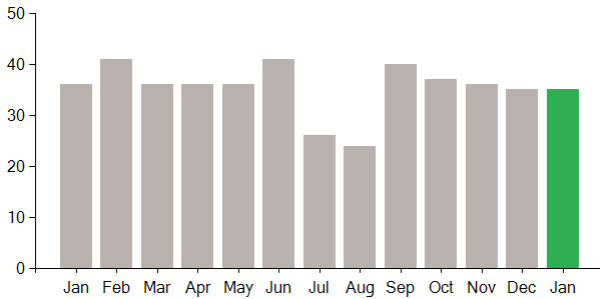
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for your payments during 2022. We look forward to serving you in 2023.

Because the billing period spans a change in the rates, your usage has been calculated partly on the old rate and partly on the new rate.

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: 5113 769 2026

Statement Date: 02/17/23

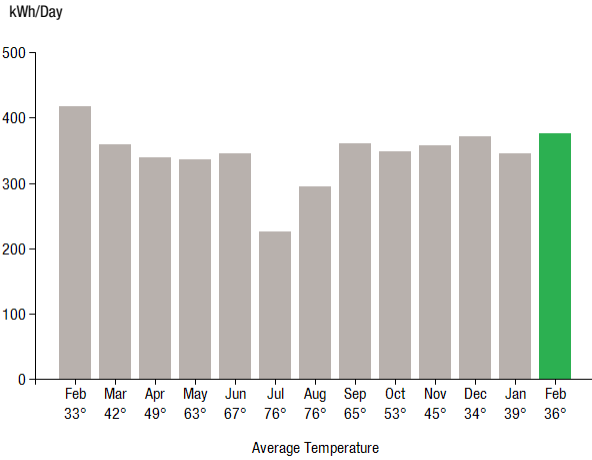
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 04/18/23

**\$1,742.00**

Amount Due On 02/17/23	\$1,827.62
Last Payment Received On 02/06/23	-\$1,827.62
Balance Forward	\$0.00
Total Current Charges	\$1,742.00

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

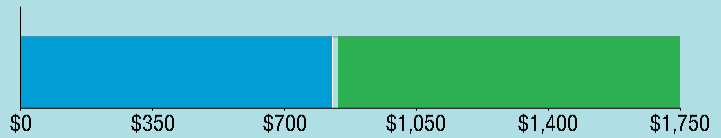
**\$825.82**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$916.18**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**376.0 kWh**

This month you used  
**10.0% less**  
than at the  
same time last year



## News For You

As temperatures go down, energy bills may go up. We offer programs to help you manage your energy costs, use less energy and connect you with assistance if you need it. This winter and beyond, we're here to help. Visit [Eversource.com/billhelp](https://www.eversource.com/billhelp).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

CE\_230217PROD.TXT

# EVERSOURCE

Account Number: 5113 769 2026

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://www.eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 04/18/23

**\$1,742.00**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001742004 0001742004



# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 02/17/23

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12**  
**GALES FERRY CT 06335**  
**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 01/20/23 - 02/17/23** **28 Days**  
**Next read date on or about: Mar 20, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	7028	6765	263	Actual

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 37.30 kW  
263 X Meter Constant of 40 = 10,520 Billed Usage

Monthly kWh Use						
Feb	Mar	Apr	May	Jun	Jul	Aug
12120	11120	10520	9760	11040	6760	9440
Sep	Oct	Nov	Dec	Jan	Feb	
10800	10080	10360	11880	10720	10520	

### Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

Total Amount Due  
by 04/18/23

**\$1,742.00**

### Electric Account Summary

Amount Due On 02/17/23	\$1,827.62
Last Payment Received On 02/06/23	-\$1,827.62
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$825.82
Delivery Services	\$916.18
Total Current Charges	\$1,742.00
<b>Total Amount Due</b>	<b>\$1,742.00</b>

### Total Charges for Electricity

#### Supplier

CONSTELLATION NEWENERGY  
Service Reference: 304102007

Generation Srvc Chrg**	10520.00kWh X \$0.07850	\$825.82
Subtotal Supplier Services		\$825.82

#### Delivery

(DISTRIBUTION RATE: 040)  
Service Reference: 304102007

Transmission Chrg	10520.00kWh X \$0.03125	\$328.75
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	10520.00kWh X \$0.04701	\$494.55
Electric Sys Improvements***	10520.00kWh X \$0.00803	\$84.48
Revenue Adj Mechanism	10520.00kWh X \$0.00192	\$20.20
CTA Chrg per kWh	10520.00kWh X \$-0.00037	-\$3.89
FMCC Delivery Chrg	10520.00kWh X \$-0.01413	-\$148.65
Comb Public Benefit Chrg*	10520.00kWh X \$0.00720	\$75.74
Subtotal Delivery Services		\$916.18
<b>Total Cost of Electricity</b>		<b>\$1,742.00</b>

**Total Current Charges \$1,742.00**

CE\_230217PROD.TXT

\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0015 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.



Account Number: **5113 769 2026**  
 Customer name key: EDUC  
 Statement Date: 02/17/23  
 Service Provided To:  
 BOARD OF EDUCATION

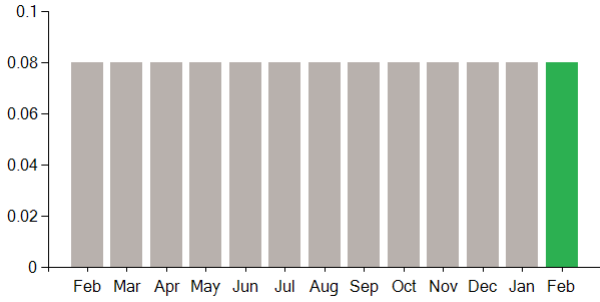
Total Amount Due  
 by 04/18/23

**\$1,742.00**

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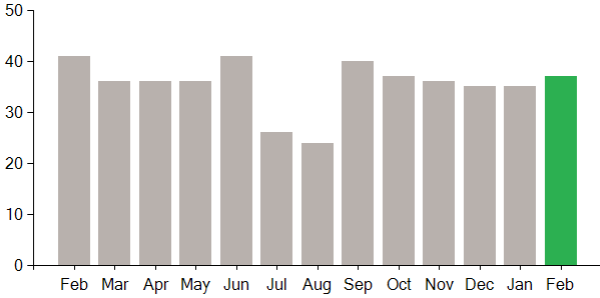
**Supply Rate**

Dollars / kWh



**Demand Profile**

Max. Demand



**Important Messages About Your Account**

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: **03/20/23**

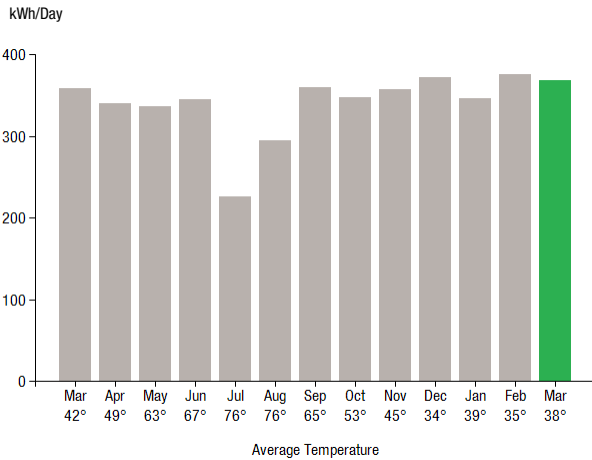
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 05/19/23

**\$1,884.70**

Amount Due On 03/17/23	\$1,742.00
Last Payment Received On 03/03/23	-\$1,742.00
Balance Forward	\$0.00
Total Current Charges	\$1,884.70

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

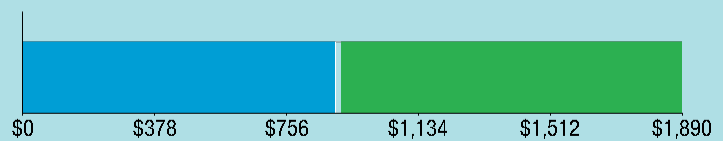
**\$894.90**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$989.80**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**368.0 kWh**

This month you used  
**2.5% more**  
than at the  
same time last year



## News For You

We know you count on us every day for the energy you need especially as you use energy to keep warm. We can help you manage your energy use and bill this winter and beyond. Visit [Eversource.com/winter-bill](https://www.eversource.com/winter-bill).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

CE\_230320PROD.TXT

# EVERSOURCE

Account Number: **5113 769 2026**

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://www.eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 05/19/23

**\$1,884.70**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001884708 0001884708

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 03/20/23

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12**  
**GALES FERRY CT 06335**  
**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 02/17/23 - 03/20/23** **31 Days**  
**Next read date on or about: Apr 20, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	7313	7028	285	Actual

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 38.70 kW  
285 X Meter Constant of 40 = 11,400 Billed Usage

Monthly kWh Use						
Mar	Apr	May	Jun	Jul	Aug	Sep
11120	10520	9760	11040	6760	9440	10800
Oct	Nov	Dec	Jan	Feb	Mar	
10080	10360	11880	10720	10520	11400	

### Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

Total Amount Due  
by 05/19/23

**\$1,884.70**

### Electric Account Summary

Amount Due On 03/17/23	\$1,742.00
Last Payment Received On 03/03/23	-\$1,742.00
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$894.90
Delivery Services	\$989.80
Total Current Charges	\$1,884.70
<b>Total Amount Due</b>	<b>\$1,884.70</b>

### Total Charges for Electricity

#### Supplier

CONSTELLATION NEWENERGY  
Service Reference: 304102007

Generation Srvc Chrg**	11400.00kWh X \$0.07850	\$894.90
Subtotal Supplier Services		\$894.90

#### Delivery

(DISTRIBUTION RATE: 040)  
Service Reference: 304102007

Transmission Chrg	11400.00kWh X \$0.03125	\$356.25
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	11400.00kWh X \$0.04701	\$535.91
Electric Sys Improvements***	11400.00kWh X \$0.00803	\$91.54
Revenue Adj Mechanism	11400.00kWh X \$0.00192	\$21.89
CTA Chrg per kWh	11400.00kWh X \$-0.00037	-\$4.22
FMCC Delivery Chrg	11400.00kWh X \$-0.01413	-\$161.08
Comb Public Benefit Chrg*	4045.20kWh X \$0.00720	\$29.13
Comb Public Benefit Chrg*	7354.80kWh X \$0.00753	\$55.38
Subtotal Delivery Services		\$989.80
<b>Total Cost of Electricity</b>		<b>\$1,884.70</b>

**Total Current Charges** **\$1,884.70**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0015 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 03/20/23

Service Provided To:  
BOARD OF EDUCATION

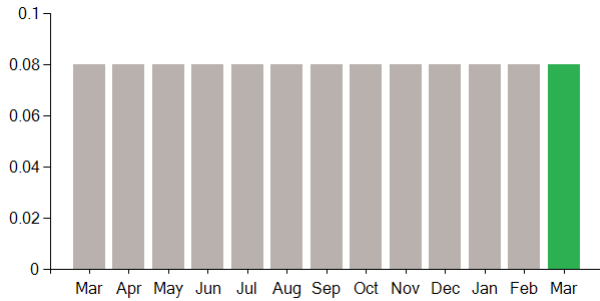
Total Amount Due  
by 05/19/23

**\$1,884.70**

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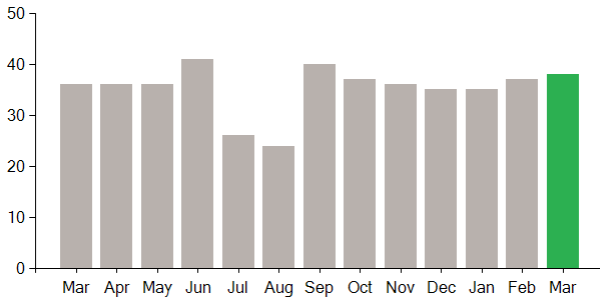
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Because the billing period spans a change in the rates, your usage has been calculated partly on the old rate and partly on the new rate.

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: **04/20/23**

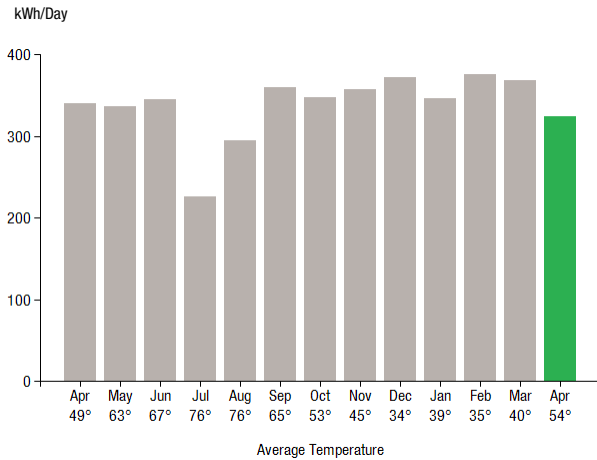
Service Provided To:  
**BOARD OF EDUCATION**

**Total Amount Due  
by 06/19/23**

**\$1,668.79**

Amount Due On 04/17/23	\$1,884.70
Last Payment Received On 04/10/23	-\$1,884.70
Balance Forward	\$0.00
Total Current Charges	\$1,668.79

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

**Supply**

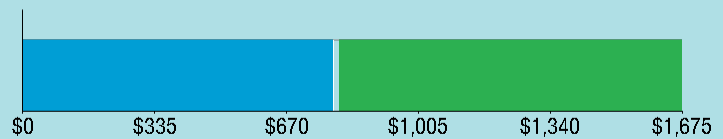
**\$788.14**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

**Delivery**

**\$880.65**

Cost to deliver electricity  
from Eversource



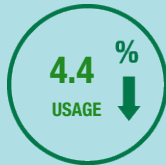
### Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**324.0 kWh**

This month you used  
**4.4% less**  
than at the  
same time last year



## News For You

If you're having trouble paying your energy bill, we have programs to help – even if you've never needed them before. Visit [Eversource.com/billhelp](https://www.eversource.com/billhelp) for info on payment plans and other assistance programs available to you.

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

CE\_230420PROD.TXT

# EVERSOURCE

Account Number: **5113 769 2026**

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://www.eversource.com). If mailing, please allow up to 5 business days to post.

**Total Amount Due  
by 06/19/23**

**\$1,668.79**

**Amount Enclosed**

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001668797 0001668797

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: **04/20/23**

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**

**Service from 03/20/23 - 04/20/23** **31 Days**

**Next read date on or about: May 18, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
<b>081240881</b>	<b>7564</b>	<b>7313</b>	<b>251</b>	<b>Actual</b>

Cust provided ID: JULIET LONG SCHOOL

Total Demand Use = 35.80 kW

251 X Meter Constant of 40 = 10,040 Billed Usage

## Monthly kWh Use

Apr	May	Jun	Jul	Aug	Sep	Oct
10520	9760	11040	6760	9440	10800	10080
Nov	Dec	Jan	Feb	Mar	Apr	
10360	11880	10720	10520	11400	10040	

## Contact Information

Emergency: 800-286-2000

www.eversource.com

Pay by Phone: 888-783-6618

Customer Service: 888-783-6617

**Total Amount Due  
by 06/19/23**

**\$1,668.79**

## Electric Account Summary

Amount Due On 04/17/23	\$1,884.70
Last Payment Received On 04/10/23	-\$1,884.70
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$788.14
Delivery Services	\$880.65
Total Current Charges	\$1,668.79
<b>Total Amount Due</b>	<b>\$1,668.79</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	10040.00kWh X \$0.07850	\$788.14
Subtotal Supplier Services		\$788.14

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	10040.00kWh X \$0.03125	\$313.75
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	10040.00kWh X \$0.04701	\$471.98
Electric Sys Improvements***	10040.00kWh X \$0.00803	\$80.62
Revenue Adj Mechanism	10040.00kWh X \$0.00192	\$19.28
CTA Chrg per kWh	10040.00kWh X \$-0.00037	-\$3.71
FMCC Delivery Chrg	10040.00kWh X \$-0.01413	-\$141.87
Comb Public Benefit Chrg*	10040.00kWh X \$0.00753	\$75.60
Subtotal Delivery Services		\$880.65

**Total Cost of Electricity** **\$1,668.79**

**Total Current Charges** **\$1,668.79**

CE\_230420PROD.TXT

\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0015 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 04/20/23

Service Provided To:  
BOARD OF EDUCATION

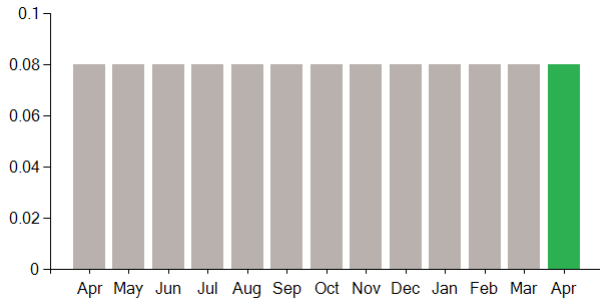
Total Amount Due  
by 06/19/23

**\$1,668.79**

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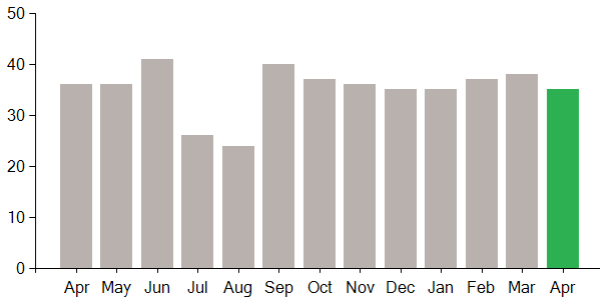
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt



# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 05/18/23

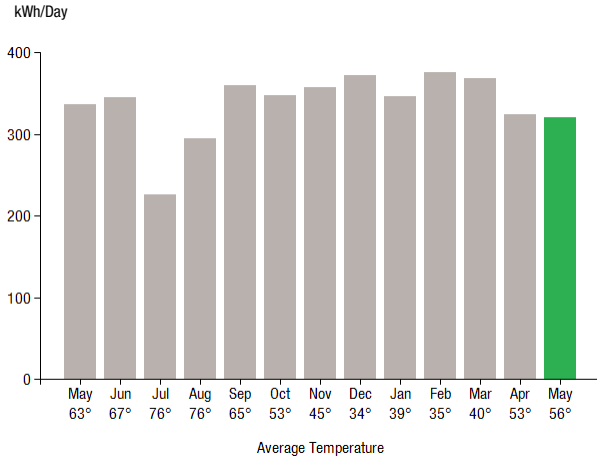
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 07/17/23

**\$1,496.27**

Amount Due On 05/18/23	\$1,668.79
Last Payment Received On 05/09/23	-\$1,668.79
Balance Forward	\$0.00
Total Current Charges	\$1,496.27

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

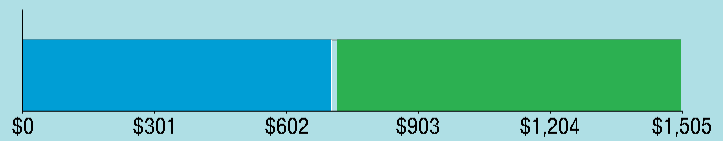
**\$703.36**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$792.91**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**320.0 kWh**

This month you used  
**5.0% less**  
than at the  
same time last year



## News For You

As we head into the cooling season, you can take steps to reduce your energy use and bill. Take advantage of energy-saving improvements to help you stay comfortable efficiently with Home Energy Solutions. You'll receive on-the-spot services plus recommendations and rebates for additional ways to save. For help with your energy bill and ways to lower your energy use visit [Eversource.com/price](https://www.eversource.com/price).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

CE\_230518PROD.TXT

# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 06/15/23.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://www.eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 07/17/23

**\$1,496.27**

**Amount Enclosed**

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001496279 0001496279

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 05/18/23

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

Serv Ref: 304102007 **Bill Cycle: 14**  
Service from 04/20/23 - 05/18/23 **28 Days**  
Next read date on or about: Jun 20, 2023

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	7788	7564	224	Actual

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 32.90 kW  
224 X Meter Constant of 40 = 8,960 Billed Usage

Monthly kWh Use						
May	Jun	Jul	Aug	Sep	Oct	Nov
9760	11040	6760	9440	10800	10080	10360
Dec	Jan	Feb	Mar	Apr	May	
11880	10720	10520	11400	10040	8960	

### Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

**Total Amount Due  
by 07/17/23**

**\$1,496.27**

### Electric Account Summary

Amount Due On 05/18/23	\$1,668.79
Last Payment Received On 05/09/23	-\$1,668.79
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$703.36
Delivery Services	\$792.91
Total Current Charges	\$1,496.27
<b>Total Amount Due</b>	<b>\$1,496.27</b>

### Total Charges for Electricity

#### Supplier

CONSTELLATION NEWENERGY  
Service Reference: 304102007

Generation Srvc Chrg**	8960.00kWh X \$0.07850	\$703.36
Subtotal Supplier Services		\$703.36

#### Delivery

(DISTRIBUTION RATE: 040)  
Service Reference: 304102007

Transmission Chrg	8960.00kWh X \$0.03125	\$280.00
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	8960.00kWh X \$0.04701	\$421.21
Electric Sys Improvements***	8960.00kWh X \$0.00803	\$71.95
Revenue Adj Mechanism	8960.00kWh X \$0.00192	\$17.20
CTA Chrg per kWh	8960.00kWh X \$-0.00037	-\$3.32
FMCC Delivery Chrg	8960.00kWh X \$-0.01413	-\$126.60
Comb Public Benefit Chrg*	8960.00kWh X \$0.00753	\$67.47
Subtotal Delivery Services		\$792.91
<b>Total Cost of Electricity</b>		<b>\$1,496.27</b>

**Total Current Charges \$1,496.27**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0015 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 05/18/23

Service Provided To:  
BOARD OF EDUCATION

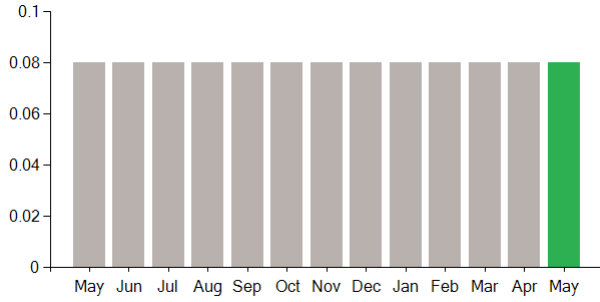
Total Amount Due  
by 07/17/23

**\$1,496.27**

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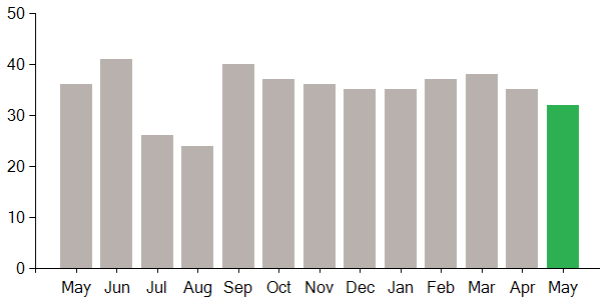
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 06/20/23

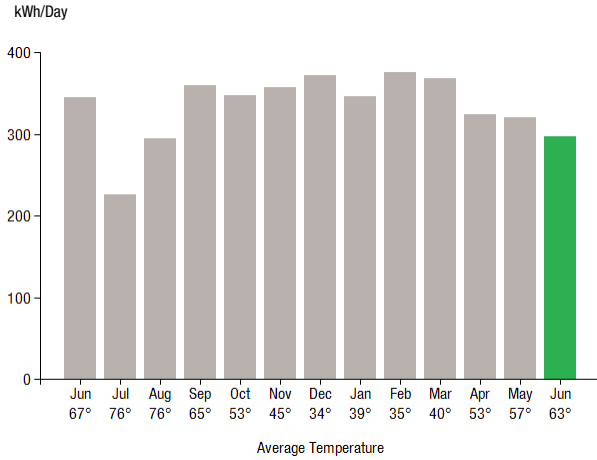
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 08/19/23

**\$1,630.45**

Amount Due On 06/15/23	\$1,496.27
Last Payment Received On 06/05/23	-\$1,496.27
Balance Forward	\$0.00
Total Current Charges	\$1,630.45

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

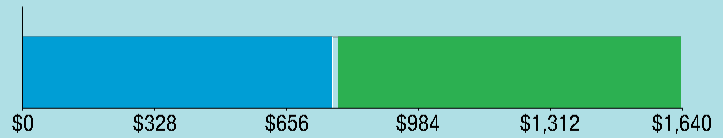
**\$769.30**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$861.15**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**297.0 kWh**

This month you used  
**13.9% less**  
than at the  
same time last year



## News For You

Hot weather drives energy use and bills higher as we run fans and air conditioners to keep cool. We offer programs to help you manage your energy bills. If you or someone you know is struggling to keep up with energy bills, even if you never have before, connect with us to get assistance. There is a plan for everyone. Visit [Eversource.com/billhelp](https://Eversource.com/billhelp).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

CE\_230620PROD.TXT

# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 07/18/23.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel.

To add more or make a payment today, visit [Eversource.com](https://Eversource.com). If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 08/19/23

**\$1,630.45**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001630459 0001630459

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: **06/20/23**

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 05/18/23 - 06/20/23** **33 Days**  
**Next read date on or about: Jul 20, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
<b>081240881</b>	<b>8033</b>	<b>7788</b>	<b>245</b>	<b>Actual</b>

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 38.20 kW  
245 X Meter Constant of 40 = 9,800 Billed Usage

## Monthly kWh Use

Jun	Jul	Aug	Sep	Oct	Nov	Dec
11040	6760	9440	10800	10080	10360	11880
Jan	Feb	Mar	Apr	May	Jun	
10720	10520	11400	10040	8960	9800	

## Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

**Total Amount Due  
by 08/19/23**

**\$1,630.45**

## Electric Account Summary

Amount Due On 06/15/23	\$1,496.27
Last Payment Received On 06/05/23	-\$1,496.27
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$769.30
Delivery Services	\$861.15
Total Current Charges	\$1,630.45
<b>Total Amount Due</b>	<b>\$1,630.45</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY		
Service Reference: 304102007		
Generation Srvc Chrg**	9800.00kWh X \$0.07850	\$769.30
Subtotal Supplier Services		\$769.30

### Delivery

(DISTRIBUTION RATE: 040)		
Service Reference: 304102007		
Transmission Chrg	9800.00kWh X \$0.03125	\$306.25
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	9800.00kWh X \$0.04701	\$460.70
Electric Sys Improvements***	9800.00kWh X \$0.00803	\$78.69
Revenue Adj Mechanism	9800.00kWh X \$0.00192	\$18.82
CTA Chrg per kWh	9800.00kWh X \$-0.00037	-\$3.63
FMCC Delivery Chrg	9800.00kWh X \$-0.01413	-\$138.47
Comb Public Benefit Chrg*	9800.00kWh X \$0.00753	\$73.79
Subtotal Delivery Services		\$861.15
<b>Total Cost of Electricity</b>		<b>\$1,630.45</b>

**Total Current Charges** **\$1,630.45**

CE\_230620PROD.TXT

\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0015 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.



Account Number: **5113 769 2026**  
 Customer name key: EDUC  
 Statement Date: **06/20/23**  
 Service Provided To:  
**BOARD OF EDUCATION**

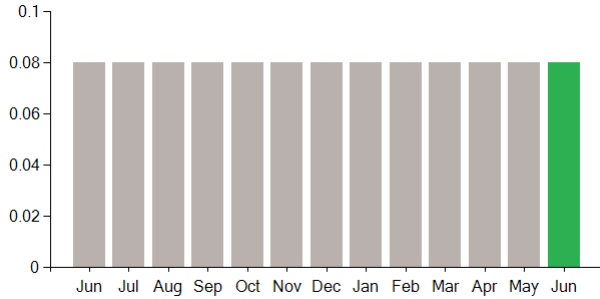
Total Amount Due  
 by 08/19/23

**\$1,630.45**

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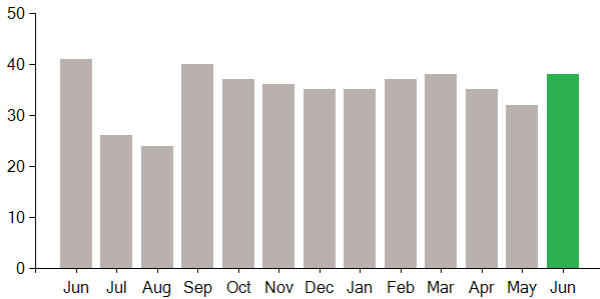
**Supply Rate**

Dollars / kWh



**Demand Profile**

Max. Demand



**Important Messages About Your Account**

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: **07/20/23**

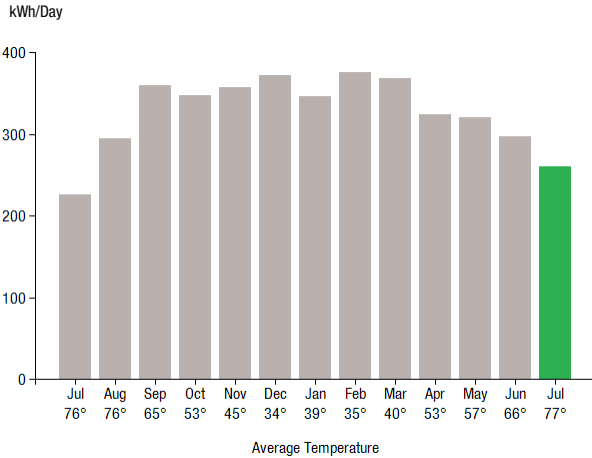
Service Provided To:  
**BOARD OF EDUCATION**

**Total Amount Due  
by 09/18/23**

**\$1,408.73**

Amount Due On 07/18/23	\$1,630.45
Last Payment Received On 07/20/23	-\$1,630.45
Balance Forward	\$0.00
Total Current Charges	\$1,408.73

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

**Supply**

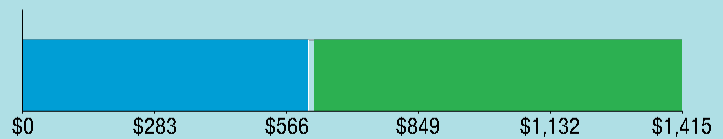
**\$612.30**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

**Delivery**

**\$796.43**

Cost to deliver electricity  
from Eversource



**Your electric supplier is**

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**260.0 kWh**

This month you used  
**15.6% more**  
than at the  
same time last year



## News For You

Beginning on July 1, if you receive energy supply from Eversource you will see a decrease to your bill compared to June. The Standard Service supply rate is decreasing due to lower prices in the energy market and lower demand for natural gas in the summer, which is used to generate electricity. Energy use may also increase in the summer. See how we can help you use less energy and maximize savings at [Eversource.com/home-savings](https://www.eversource.com/home-savings).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 08/17/23.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel. You can also add \$2 or \$3 when paying your bill online. 100% of your tax-deductible donation provides energy assistance grants. If mailing, please allow up to 5 business days to post.

**Total Amount Due  
by 09/18/23**

**\$1,408.73**

**Amount Enclosed**

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0001408733 0001408733

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 07/20/23

Service Provided To:  
BOARD OF EDUCATION

Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335

Serv Ref: 304102007      Bill Cycle: 14  
Service from 06/20/23 - 07/20/23      30 Days  
Next read date on or about: Aug 21, 2023

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	8228	8033	195	Actual

Cust provided ID: JULIET LONG SCHOOL  
Total Demand Use = 20.60 kW  
195 X Meter Constant of 40 = 7,800 Billed Usage

## Monthly kWh Use

Jul	Aug	Sep	Oct	Nov	Dec	Jan
6760	9440	10800	10080	10360	11880	10720
Feb	Mar	Apr	May	Jun	Jul	
10520	11400	10040	8960	9800	7800	

## Contact Information

Emergency: 800-286-2000  
www.eversource.com  
Pay by Phone: 888-783-6618  
Customer Service: 888-783-6617

Total Amount Due  
by 09/18/23

**\$1,408.73**

## Electric Account Summary

Amount Due On 07/18/23	\$1,630.45
Last Payment Received On 07/20/23	-\$1,630.45
Balance Forward	\$0.00
Current Charges/Credits	
Electric Supply Services	\$612.30
Delivery Services	\$796.43
Total Current Charges	\$1,408.73
<b>Total Amount Due</b>	<b>\$1,408.73</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	7800.00kWh X \$0.07850	\$612.30
Subtotal Supplier Services		\$612.30

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	2600.00kWh X \$0.03125	\$81.25
Transmission Chrg	5200.00kWh X \$0.03491	\$181.53
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	7800.00kWh X \$0.04701	\$366.68
Electric Sys Improvements***	2600.00kWh X \$0.00803	\$20.88
Electric Sys Improvements***	5200.00kWh X \$0.00981	\$51.01
Revenue Adj Mechanism	2600.00kWh X \$0.00192	\$4.99
Revenue Adj Mechanism	5200.00kWh X \$0.00127	\$6.60
CTA Chrg per kWh	2600.00kWh X \$-0.00037	-\$0.96
CTA Chrg per kWh	5200.00kWh X \$-0.00046	-\$2.39
FMCC Delivery Chrg	2600.00kWh X \$-0.01413	-\$36.74
Comb Public Benefit Chrg*	2600.00kWh X \$0.00753	\$19.58
Comb Public Benefit Chrg*	5200.00kWh X \$0.00750	\$39.00
Subtotal Delivery Services		\$796.43

CE\_230720PROD.TXT

\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0017 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.





Account Number: **5113 769 2026**  
 Customer name key: EDUC  
 Statement Date: **07/20/23**  
 Service Provided To:  
**BOARD OF EDUCATION**

**Total Amount Due  
 by 09/18/23**

**\$1,408.73**

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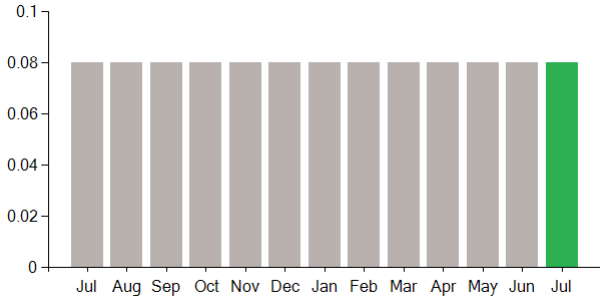
**Total Cost of Electricity** **\$1,408.73**

**Total Current Charges** **\$1,408.73**

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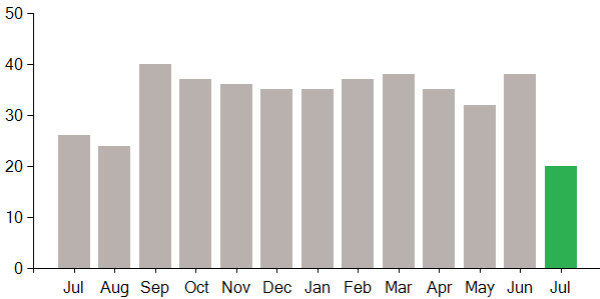
**Supply Rate**

Dollars / kWh



**Demand Profile**

Max. Demand



**Important Messages About Your Account**

Because the billing period spans a change in the rates, your usage has been calculated partly on the old rate and partly on the new rate.

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 08/21/23

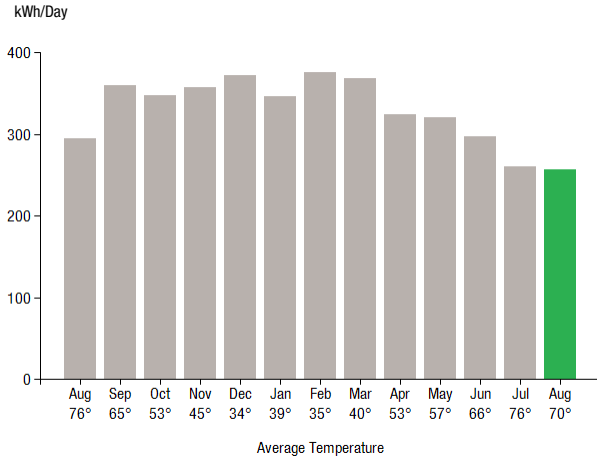
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 10/20/23

**\$2,937.75**

Amount Due On 08/17/23	\$1,408.73
Last Payment Received	\$0.00
Balance Forward	\$1,408.73
Total Current Charges	\$1,529.02

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

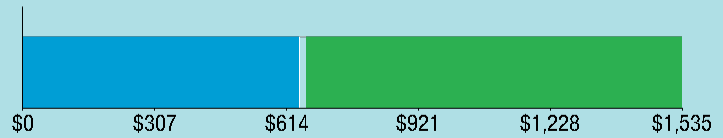
**\$643.70**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$885.32**

Cost to deliver electricity  
from Eversource



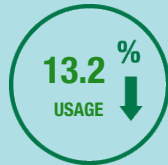
### Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**256.0 kWh**

This month you used  
**13.2% less**  
than at the  
same time last year



## News For You

We use more energy to keep cool in the summer which means your bill may be higher. Learn how to use less energy while staying cool at [eversource.com/energy-saving-tips](https://eversource.com/energy-saving-tips).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 09/18/23.

Total Amount Due  
by 10/20/23

**\$2,937.75**

**Amount Enclosed**

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0002937753 0001529029

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: **08/21/23**

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 07/20/23 - 08/21/23** **32 Days**

**Next read date on or about: Sep 20, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
<b>081240881</b>	<b>8433</b>	<b>8228</b>	<b>205</b>	<b>Actual</b>

Cust provided ID: JULIET LONG SCHOOL

Total Demand Use = 19.60 kW

205 X Meter Constant of 40 = 8,200 Billed Usage

## Monthly kWh Use

Aug	Sep	Oct	Nov	Dec	Jan	Feb
9440	10800	10080	10360	11880	10720	10520
Mar	Apr	May	Jun	Jul	Aug	
11400	10040	8960	9800	7800	8200	

## Contact Information

Emergency: 800-286-2000

www.eversource.com

Pay by Phone: 888-783-6618

Customer Service: 888-783-6617

**Total Amount Due  
by 10/20/23**

**\$2,937.75**

## Electric Account Summary

Amount Due On 08/17/23	\$1,408.73
Last Payment Received	\$0.00
Balance Forward	\$1,408.73
Current Charges/Credits	
Electric Supply Services	\$643.70
Delivery Services	\$885.32
Total Current Charges	\$1,529.02
<b>Total Amount Due</b>	<b>\$2,937.75</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	8200.00kWh X \$0.07850	\$643.70
Subtotal Supplier Services		\$643.70

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	8200.00kWh X \$0.03491	\$286.26
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	8200.00kWh X \$0.04701	\$385.48
Electric Sys Improvements***	8200.00kWh X \$0.00981	\$80.44
Revenue Adj Mechanism	8200.00kWh X \$0.00127	\$10.41
CTA Chrg per kWh	8200.00kWh X \$-0.00046	-\$3.77
Comb Public Benefit Chrg*	8200.00kWh X \$0.00750	\$61.50
Subtotal Delivery Services		\$885.32
<b>Total Cost of Electricity</b>		<b>\$1,529.02</b>

### Total Current Charges

**\$1,529.02**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0017 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 08/21/23

Service Provided To:  
BOARD OF EDUCATION

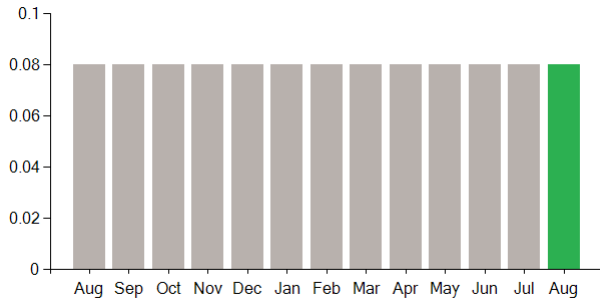
Total Amount Due  
by 10/20/23

**\$2,937.75**

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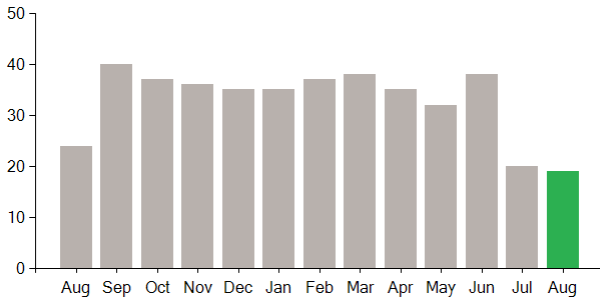
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: **09/22/23**

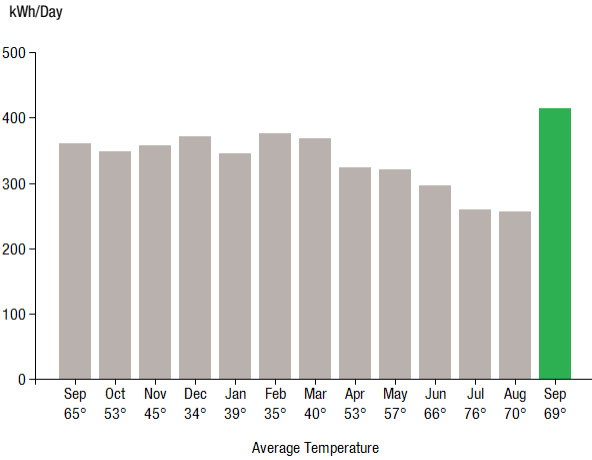
Service Provided To:  
**BOARD OF EDUCATION**

Total Amount Due  
by 11/21/23

**\$3,834.55**

Amount Due On 09/18/23	\$2,937.75
Last Payment Received On 08/24/23	-\$1,408.73
Balance Forward	\$1,529.02
Total Current Charges	\$2,305.53

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

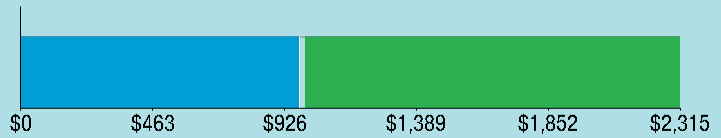
**\$976.54**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$1,328.99**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**415.0 kWh**

This month you used  
**15.3% more**  
than at the  
same time last year



## News For You

Delivery rates are being adjusted up Sept. 1. Your total bill impact depends on the rate you're on and your energy use. For more information, visit [Eversource.com/understand-my-bill](https://Eversource.com/understand-my-bill).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 10/20/23.

Total Amount Due  
by 11/21/23

**\$3,834.55**

**Amount Enclosed**

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0003834558 0002305538

# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: **09/22/23**

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 08/21/23 - 09/20/23** **30 Days**  
**Next read date on or about: Oct 19, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
<b>081240881</b>	<b>8744</b>	<b>8433</b>	<b>311</b>	<b>Actual</b>

Cust provided ID: JULIET LONG SCHOOL

Total Demand Use = 44.60 kW

311 X Meter Constant of 40 = 12,440 Billed Usage

## Monthly kWh Use

Sep	Oct	Nov	Dec	Jan	Feb	Mar
10800	10080	10360	11880	10720	10520	11400
Apr	May	Jun	Jul	Aug	Sep	
10040	8960	9800	7800	8200	12440	

## Contact Information

Emergency: 800-286-2000

www.eversource.com

Pay by Phone: 888-783-6618

Customer Service: 888-783-6617

**Total Amount Due  
by 11/21/23**

**\$3,834.55**

## Electric Account Summary

Amount Due On 09/18/23	\$2,937.75
Last Payment Received On 08/24/23	-\$1,408.73
Balance Forward	\$1,529.02
Current Charges/Credits	
Electric Supply Services	\$976.54
Delivery Services	\$1,328.99
Total Current Charges	\$2,305.53
<b>Total Amount Due</b>	<b>\$3,834.55</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg**	12440.00kWh X \$0.07850	\$976.54
Subtotal Supplier Services		\$976.54

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg	12440.00kWh X \$0.03491	\$434.28
Distr Cust Srvc Chrg		\$65.00
Distr Chrg per kWh	12440.00kWh X \$0.04701	\$584.80
Electric Sys Improvements***	12440.00kWh X \$0.00981	\$122.04
Revenue Adj Mechanism	4146.70kWh X \$0.00127	\$5.27
Revenue Adj Mechanism	8293.30kWh X \$0.00080	\$6.63
CTA Chrg per kWh	12440.00kWh X \$-0.00046	-\$5.72
FMCC Delivery Chrg	8293.30kWh X \$0.00272	\$22.56
Comb Public Benefit Chrg*	4146.70kWh X \$0.00750	\$31.10
Comb Public Benefit Chrg*	8293.30kWh X \$0.00760	\$63.03
Subtotal Delivery Services		\$1,328.99
<b>Total Cost of Electricity</b>		<b>\$2,305.53</b>

## Total Current Charges

**\$2,305.53**

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\*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

\*\*Effective January 1, 2007, the Generation Services Charge (GSC) and the Bypassable Federally Mandated Congestion Charge (BFMCC) have been combined into the "GSC Charge" listed in the Supplier Services section of your bill. The GSC reflects all of the cost of procuring energy from Eversource wholesale suppliers. The BFMCC portion of this line item is -\$0.0017 / kWh. If you multiply this BFMCC rate by the number of kWhs on your bill, you can calculate the dollar amount associated with the BFMCC.

\*\*\*Electric System Improvements: Recovers company investments that protect, strengthen or modernize the electric grid.

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 09/22/23

Service Provided To:  
BOARD OF EDUCATION

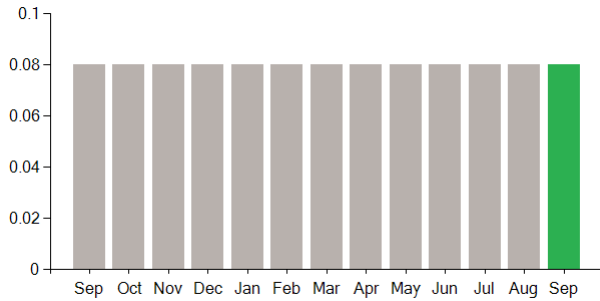
Total Amount Due  
by 11/21/23

**\$3,834.55**

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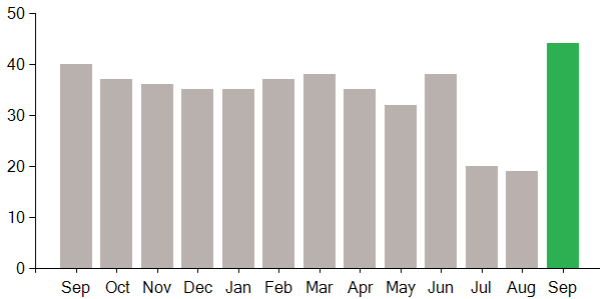
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Because the billing period spans a change in the rates, your usage has been calculated partly on the old rate and partly on the new rate.

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

# EVERSOURCE

Account Number: **5113 769 2026**

Statement Date: 10/24/23

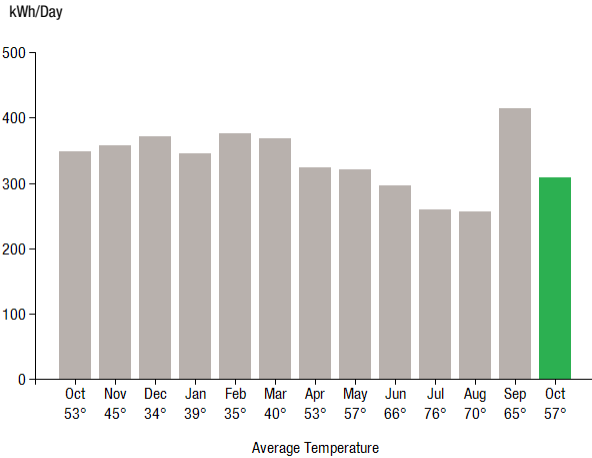
Service Provided To:  
BOARD OF EDUCATION

Total Amount Due  
by 12/23/23

**\$5,520.33**

Amount Due On 10/20/23	\$3,834.55
Last Payment Received	\$0.00
Balance Forward	\$3,834.55
Total Current Charges	\$1,685.78

## Electric Usage History - Kilowatt Hours (kWh)



## Current Charges for Electricity

Supply

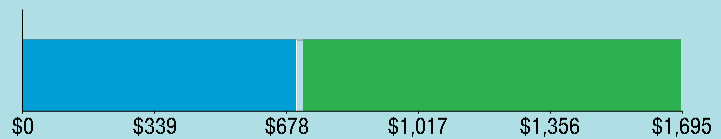
**\$703.36**

Cost of electricity from  
CONSTELLATION NEWENERGY  
C&I

Delivery

**\$982.42**

Cost to deliver electricity  
from Eversource



Your electric supplier is

CONSTELLATION NEWENERGY C&I  
1001 LOUISIANA ST  
STE 2300  
HOUSTON TX 77002-5089  
844-636-3749

## Electric Usage Summary

This month your  
average daily  
electric use was  
**309.0 kWh**

This month you used  
**11.2% less**  
than at the  
same time last year



## News For You

As we head into the heating season, you can take steps to reduce your energy use and bill. Take advantage of energy-saving improvements to help you stay comfortable efficiently with Home Energy Solutions. You'll receive on-the-spot services plus recommendations and rebates for additional ways to save. For help with your energy bill and ways to lower your energy use visit [Eversource.com/manage-costs](https://www.eversource.com/manage-costs).

Remit Payment To: Eversource, PO Box 56002, Boston, MA 02205-6002

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# EVERSOURCE

Account Number: **5113 769 2026**

Non-residential and residential non-hardship customers may be subject to a 1.00% late payment charge if the "Total Amount Due" is not received by 11/21/23.

Please make your check payable to Eversource and consider adding \$1 for Operation Fuel. You can also add \$2 or \$3 when paying your bill online. 100% of your tax-deductible donation provides energy assistance grants. If mailing, please allow up to 5 business days to post.

Total Amount Due  
by 12/23/23

**\$5,520.33**

Amount Enclosed

BOARD OF EDUCATION  
4 BLONDER PARK BLVD  
LEDYARD CT 06339-1504

Eversource  
PO Box 56002  
Boston, MA 02205-6002

5113769202642 0005520338 0001685785



# EVERSOURCE

Account Number: **5113 769 2026**

Customer name key: EDUC

Statement Date: 10/24/23

Service Provided To:  
BOARD OF EDUCATION

**Svc Addr: 1854 ROUTE 12  
GALES FERRY CT 06335**

**Serv Ref: 304102007** **Bill Cycle: 14**  
**Service from 09/20/23 - 10/19/23** **29 Days**

**Next read date on or about: Nov 17, 2023**

Meter Number	Current Read	Previous Read	Current Usage	Reading Type
081240881	8968	8744	224	Actual

Cust provided ID: JULIET LONG SCHOOL

Total Demand Use = 37.50 kW

224 X Meter Constant of 40 = 8,960 Billed Usage

## Monthly kWh Use

Oct	Nov	Dec	Jan	Feb	Mar	Apr
10080	10360	11880	10720	10520	11400	10040
May	Jun	Jul	Aug	Sep	Oct	
8960	9800	7800	8200	12440	8960	

## Contact Information

Emergency: 800-286-2000

www.eversource.com

Pay by Phone: 888-783-6618

Customer Service: 888-783-6617

**Total Amount Due  
by 12/23/23**

**\$5,520.33**

## Electric Account Summary

Amount Due On 10/20/23	\$3,834.55
Last Payment Received	\$0.00
Balance Forward	\$3,834.55
Current Charges/Credits	
Electric Supply Services	\$703.36
Delivery Services	\$982.42
Total Current Charges	\$1,685.78
<b>Total Amount Due</b>	<b>\$5,520.33</b>

## Total Charges for Electricity

### Supplier

CONSTELLATION NEWENERGY

Service Reference: 304102007

Generation Srvc Chrg\*\* 8960.00kWh X \$0.07850 \$703.36

Subtotal Supplier Services \$703.36

### Delivery

(DISTRIBUTION RATE: 040)

Service Reference: 304102007

Transmission Chrg 8960.00kWh X \$0.03491 \$312.79

Distr Cust Srvc Chrg \$65.00

Distr Chrg per kWh 8960.00kWh X \$0.04701 \$421.21

Electric Sys Improvements\*\*\* 8960.00kWh X \$0.00981 \$87.90

Revenue Adj Mechanism 8960.00kWh X \$0.00080 \$7.17

CTA Chrg per kWh 8960.00kWh X \$-0.00046 -\$4.12

FMCC Delivery Chrg 8960.00kWh X \$0.00272 \$24.37

Comb Public Benefit Chrg\* 8960.00kWh X \$0.00760 \$68.10

Subtotal Delivery Services \$982.42

**Total Cost of Electricity \$1,685.78**

**Total Current Charges \$1,685.78**

Account Number: 5113 769 2026

Customer name key: EDUC

Statement Date: 10/24/23

Service Provided To:  
BOARD OF EDUCATION

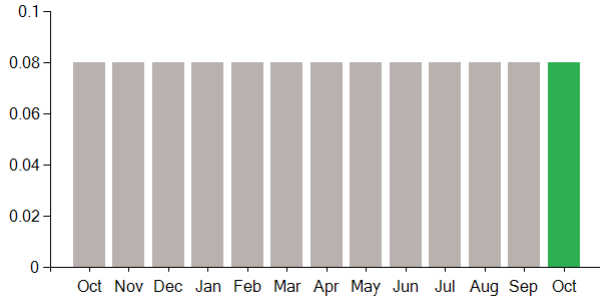
Total Amount Due  
by 12/23/23

**\$5,520.33**

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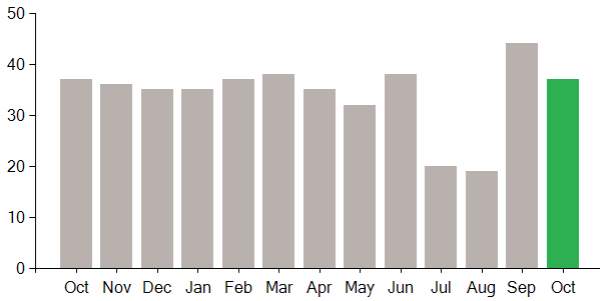
### Supply Rate

Dollars / kWh



### Demand Profile

Max. Demand



### Important Messages About Your Account

Thank you for participating in the Online Bill and Payment Service.

This meter is tax exempt

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## SECTION 262413 - SWITCHBOARDS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section Includes:
  - 1. Service and distribution switchboards rated 600 V and less.
  - 2. Transient voltage suppression devices.
  - 3. Disconnecting and overcurrent protective devices.
  - 4. Instrumentation.
  - 5. Control power.
  - 6. Accessory components and features.
  - 7. Identification.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Switchboards shall withstand the effects of earthquake motions determined according to SEI/ASCE 7.
  - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

#### 1.4 SUBMITTALS

- A. Product Data: For each type of switchboard, overcurrent protective device, transient voltage suppression device, ground-fault protector, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes.
- B. Shop Drawings: For each switchboard and related equipment.
  - 1. Include dimensioned plans, elevations, sections, and details, including required clearances and service space around equipment. Show tabulations of installed devices, equipment features, and ratings.
  - 2. Detail enclosure types for types other than NEMA 250, Type 1.
  - 3. Detail bus configuration, current, and voltage ratings.
  - 4. Detail short-circuit current rating of switchboards and overcurrent protective devices.
  - 5. Include descriptive documentation of optional barriers specified for electrical insulation and isolation.
  - 6. Detail utility company's metering provisions with indication of approval by utility company.
  - 7. Include evidence of NRTL listing for series rating of installed devices.
  - 8. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
  - 9. Include time-current coordination curves for each type and rating of overcurrent protective device included in switchboards.

- 
10. Include schematic and wiring diagrams for power, signal, and control wiring.
- C. Qualification Data: For qualified Installer and testing agency.
  - D. Seismic Qualification Certificates: Submit certification that switchboards, overcurrent protective devices, accessories, and components will withstand seismic forces defined in Section 260548 "Vibration and Seismic Controls for Electrical Systems." Include the following:
    1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
    2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
    3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
  - E. Field Quality-Control Reports:
    1. Test procedures used.
    2. Test results that comply with requirements.
    3. Results of failed tests and corrective action taken to achieve test results that comply with requirements.
  - F. Operation and Maintenance Data: For switchboards and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
    1. Routine maintenance requirements for switchboards and all installed components.
    2. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
    3. Time-current coordination curves for each type and rating of overcurrent protective device included in switchboards. Submit on translucent log-log graft paper; include selectable ranges for each type of overcurrent protective device.
- 1.5 QUALITY ASSURANCE
- A. Source Limitations: Obtain switchboards, overcurrent protective devices, components, and accessories from single source from single manufacturer.
  - B. Installer Qualifications: An employer of workers qualified as defined in NEMA PB 2.1 and trained in electrical safety as required by NFPA 70E.
  - C. Testing Agency Qualifications: Member company of NETA or an NRTL.
    1. Testing Agency's Field Supervisor: Currently certified by NETA to supervise on-site testing.
  - D. Product Selection for Restricted Space: Drawings indicate maximum dimensions for switchboards including clearances between switchboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
  - E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
  - F. Comply with NEMA PB 2.

G. Comply with NFPA 70.

H. Comply with UL 891.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver switchboards in sections or lengths that can be moved past obstructions in delivery path.

B. Remove loose packing and flammable materials from inside switchboards and connect factory-installed space heaters to temporary electrical service to prevent condensation.

C. Handle and prepare switchboards for installation according to NECA 400 and/or NEMA PB 2.1.

#### 1.7 PROJECT CONDITIONS

A. Installation Pathway: Remove and replace access fencing, doors, lift-out panels, and structures to provide pathway for moving switchboards into place.

B. Environmental Limitations:

1. Do not deliver or install switchboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above switchboards is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:

- a. Ambient Temperature: Not exceeding 104 deg F (40 deg C).
- b. Altitude: Not exceeding 6600 feet.

C. Service Conditions: NEMA PB 2, usual service conditions, as follows:

1. Ambient temperatures within limits specified.
2. Altitude not exceeding 6600 feet.

D. Interruption of Existing Electric Service: Do not interrupt electric service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

1. Notify Architect and Construction Manager no fewer than seven (7) days in advance of proposed interruption of electric service.
2. Indicate method of providing temporary electric service.
3. Do not proceed with interruption of electric service without Architect's and Construction Manager's written permission.
4. Comply with NFPA 70E.

#### 1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace transient voltage suppression devices that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five (5) years from date of Substantial Completion not at certification of equipment.

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## 1.9 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Potential Transformer Fuses: Equal to ten percent (10%) of quantity installed for each size and type, but no fewer than two (2) of each size and type.
  - 2. Control-Power Fuses: Equal to ten percent (10%) of quantity installed for each size and type, but no fewer than two (2) of each size and type.
  - 3. Fuses and Fusible Devices for Fused Circuit Breakers: Equal to ten percent (10%) of quantity installed for each size and type, but no fewer than three (3) of each size and type.
  - 4. Fuses for Fused Switches: Equal to ten percent (10%) of quantity installed for each size and type, but no fewer than three (3) of each size and type.
  - 5. Fuses for Fused Power-Circuit Devices: Equal to ten percent (10%) of quantity installed for each size and type, but no fewer than three (3) of each size and type.
  - 6. Indicating Lights: Equal to ten percent (10%) of quantity installed for each size and type, but no fewer than one (1) of each size and type.

## 1.10 COORDINATION

- A. Coordinate layout and installation of switchboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- B. Coordinate sizes and locations of concrete bases with actual equipment provided. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURED UNITS

- A. Basis-of-Design Product: **Siemens Energy & Automation, Inc.** Subject to compliance with requirements, the others listed are acceptable alternate manufacturer's:
  - 1. General Electric Company; GE Consumer & Industrial – Electrical Distribution
  - 2. Eaton Electric, Inc.; Cutler-Hammer Business Unit
  - 3. Square D; a brand of Schneider Electric
- B. Front-Connected, Front-Accessible Switchboards:
  - 1. Main Devices: Panel and Fixed, individually mounted.
  - 2. Branch Devices: Panel mounted.
  - 3. Sections front and rear aligned.
- C. Nominal System Voltage: 208/120 V.
- D. Main-Bus Continuous: As indicated on Drawings.

- E. Seismic Requirements: Fabricate and test switchboards according to IEEE 344 to withstand seismic forces defined in Section 260548 "Vibration and Seismic Controls for Electrical Systems."
- F. Indoor Enclosures: Steel, NEMA 250, Type 1
- G. Enclosure Finish for Indoor Units: Factory-applied finish in manufacturer's standard gray finish over a rust-inhibiting primer on treated metal surface.
  - 1. Power for space heaters, ventilation, lighting, and receptacle provided by a remote source.
- H. Barriers: Between adjacent switchboard sections.
- I. Insulation and isolation for main bus of main section and main and vertical buses of feeder sections.
- J. Utility Metering Compartment: Fabricated, barrier compartment and section complying with utility company's requirements; hinged sealed door; buses provisioned for mounting utility company's current transformers and potential transformers or potential taps as required by utility company. If separate vertical section is required for utility metering, match and align with basic switchboard. Provide service entrance label and necessary applicable service entrance features.
- K. Bus Transition and Incoming Pull Sections: Matched and aligned with basic switchboard.
- L. Removable, Hinged Rear Doors and Compartment Covers: Secured by captive thumb screws, for access to rear interior of switchboard.
- M. Hinged Front Panels: Allow access to circuit breaker, metering, accessory, and blank compartments.
- N. Pull Box on Top of Switchboard (when required):
  - 1. Adequate ventilation to maintain temperature in pull box within same limits as switchboard.
  - 2. Set back from front to clear circuit-breaker removal mechanism.
  - 3. Removable covers shall form top, front, and sides. Top covers at rear shall be easily removable for drilling and cutting.
  - 4. Bottom shall be insulating, fire-resistive material with separate holes for cable drops into switchboard.
  - 5. Cable supports shall be arranged to facilitate cabling and adequate to support cables indicated, including those for future installation.
- O. Buses and Connections: Three-phase, four-wire unless otherwise indicated.
  - 1. Phase- and Neutral-Bus Material: Hard-drawn copper of ninety-eight percent (98%) conductivity, silver-plated, with tin-plated aluminum or copper feeder circuit-breaker line connections.
  - 2. Load Terminals: Insulated, rigidly braced, runback bus extensions, of same material as through buses, equipped with compression connectors for outgoing circuit conductors. Provide load terminals for future circuit-breaker positions at full-ampere rating of circuit-breaker position.
  - 3. Ground Bus: ¼-by-2-inch minimum-size required by UL 891, hard-drawn copper of ninety-eight percent (98%) conductivity, equipped with compression connectors for

- feeder and branch-circuit ground conductors. For busway feeders, extend insulated equipment grounding cable to busway ground connection and support cable at intervals in vertical run.
4. Main Phase Buses and Equipment Ground Buses: Uniform capacity for entire length of switchboard's main and distribution sections. Provide for future extensions from both ends.
  5. Neutral Buses: One hundred percent (100%) of the ampacity of phase buses unless otherwise indicated, equipped with compression connectors for outgoing circuit neutral cables. Brace bus extensions for busway feeder neutral bus.
  6. Isolation Barrier Access Provisions: Permit checking of bus-bolt tightness.
- P. Future Devices: Equip compartments with mounting brackets, supports, bus connections, and appurtenances at full rating of circuit-breaker compartment.
- Q. Bus-Bar Insulation: Factory-applied, flame-retardant, tape wrapping of individual bus bars or flame-retardant, spray-applied insulation. Minimum insulation temperature rating of 105 deg C.
- R. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components including instruments and instrument transformers.
- ## 2.2 TRANSIENT VOLTAGE SUPPRESSION DEVICES
- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one (1) of the following:
1. Eaton Electrical Inc.; Cutler-Hammer Business Unit
  2. General Electric Company; GE Consumer & Industrial - Electrical Distribution
  3. Siemens Energy & Automation, Inc.
  4. Square D; a brand of Schneider Electric
- B. Surge Protection Device Description: IEEE C62.41-compliant, integrally mounted, bolt-on, solid-state, parallel-connected, modular (with field-replaceable modules) type, with sine-wave tracking suppression and filtering modules, UL 1449, second edition, short-circuit current rating matching or exceeding the switchboard short-circuit rating, and with the following features and accessories:
1. Fuses, rated at 200-kA interrupting capacity.
  2. Fabrication using bolted compression lugs for internal wiring.
  3. Integral disconnect switch.
  4. Redundant suppression circuits.
  5. Redundant replaceable modules.
  6. Arrangement with wire connections to phase buses, neutral bus, and ground bus.
  7. LED indicator lights for power and protection status.
  8. Audible alarm, with silencing switch, to indicate when protection has failed.
  9. Form-C contacts rated at 5 A and 250-V ac, one normally open and one normally closed, for remote monitoring of system operation. Contacts shall reverse position on failure of any surge diversion module or on opening of any current-limiting device. Coordinate with building power monitoring and control system.
  10. Six-digit, transient-event counter set to totalize transient surges.
- C. Peak Single-Impulse Surge Current Rating: 160 kA per mode/320 kA per phase.
- D. Withstand Capabilities: 12,000 IEEE C62.41, Category C3 (10 kA), 8-by-20-mic.sec. surges with less than 5 percent change in clamping voltage.



- E. Protection modes and UL 1449 SVR for grounded wye circuits with 208Y/120-V, three-phase, four-wire circuits shall be as follows:
1. Line to Neutral: 700 V for 208Y/120.
  2. Line to Ground: 1200 V for 208Y/120.
  3. Neutral to Ground: 1000 V for 208Y/120.

## 2.3 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. Molded-Case Circuit Breaker (MCCB): Comply with UL 489, with interrupting capacity to meet available fault currents.
1. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Electronic trip setting for circuit-breaker frame sizes 200 A and larger.
  2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
  3. Electronic trip circuit breakers with rms sensing; field-replaceable rating plug or field-replicable electronic trip; and the following field-adjustable settings:
    - a. Instantaneous trip.
    - b. Long- and short-time pickup levels.
    - c. Long- and short-time time adjustments.
    - d. Ground-fault pickup level, time delay, and  $I^2t$  response.
  4. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller; let-through ratings less than NEMA FU 1, RK-5.
  5. Integrally Fused Circuit Breakers: Thermal-magnetic trip element with integral limiter-style fuse listed for use with circuit breaker; trip activation on fuse opening or on opening of fuse compartment door.
  6. GFCI Circuit Breakers: Single- and two-pole configurations with Class A ground-fault protection (6-mA trip).
  7. Ground-Fault Equipment Protection (GFEP) Circuit Breakers: Class B ground-fault protection (30-mA trip).
  8. Molded-Case Circuit-Breaker (MCCB) Features and Accessories:
    - a. Standard frame sizes, trip ratings, and number of poles.
    - b. Lugs: Compression style, suitable for number, size, trip ratings, and conductor material.
    - c. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and high-intensity discharge (HID) lighting circuits.
    - d. Ground-Fault Protection: Remote-mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
    - e. Zone-Selective Interlocking: Integral with electronic trip unit; for interlocking ground-fault protection function.
    - f. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at seventy-five percent (75%) of rated voltage.
    - g. Undervoltage Trip: Set to operate at thirty-five to seventy-five percent (35-75%) of rated voltage without intentional time delay.
    - h. Auxiliary Contacts: Two SPDT switches with "a" and "b" contacts; "a" contacts mimic circuit-breaker contacts, "b" contacts operate in reverse of circuit-breaker contacts.
    - i. Key Interlock Kit: Externally mounted to prohibit circuit-breaker operation; key shall be removable only when circuit breaker is in off position.

- B. Insulated-Case Circuit Breaker (ICCB): One hundred percent (100%) rated, sealed, insulated-case power circuit breaker with interrupting capacity rating to meet available fault current.
1. Fixed circuit-breaker mounting.
  2. Two-step, stored-energy closing.
  3. Full-function, microprocessor-based trip units with interchangeable rating plug, trip indicators, and the following field-adjustable settings:
    - a. Instantaneous trip.
    - b. Long- and short-time time adjustments.
    - c. Ground-fault pickup level, time delay, and  $I^2t$  response.
  4. Zone-Selective Interlocking: Integral with electronic trip unit; for interlocking ground-fault protection function.
  5. Remote trip indication and control.
  6. Key Interlock Kit: Externally mounted to prohibit circuit-breaker operation; key shall be removable only when circuit breaker is in off position.
  7. Control Voltage: 40-V dc and/or 120-V ac.
- C. Bolted-Pressure Contact Switch: Operating mechanism uses rotary-mechanical-bolting action to produce and maintain high clamping pressure on the switch blade after it engages the stationary contacts.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Boltswitch, Inc.
    - b. Eaton Electrical Inc.; Cutler-Hammer Business Unit
    - c. Pringle Electrical Manufacturing Company, Inc.
    - d. Siemens Energy & Automation, Inc.
    - e. Square D; a brand of Schneider Electric
  2. Main-Contact Interrupting Capability: Minimum of twelve (12) times the switch current rating.
  3. Operating Mechanism: Manual handle operation to close switch; stores energy in mechanism for opening and closing.
    - a. Electrical Trip: Operation of lever or push-button trip switch, or trip signal from ground-fault relay or remote-control device, causes switch to open.
    - b. Mechanical Trip: Operation of mechanical lever, push button, or other device causes switch to open.
  4. Auxiliary Switches: Factory installed, single pole, double throw, with leads connected to terminal block, and including one (1) set more than quantity required for functional performance indicated.
  5. Service-Rated Switches: Labeled for use as service equipment.
  6. Ground-Fault Relay: Comply with UL 1053; self-powered type with mechanical ground-fault indicator, test function, tripping relay with internal memory, and three-phase current transformer/sensor.
    - a. Configuration: Integrally mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
    - b. Internal Memory: Integrates the cumulative value of intermittent arcing ground-fault currents and uses the effect to initiate tripping.

- c. No-Trip Relay Test: Permits ground-fault simulation test without tripping switch.
  - d. Test Control: Simulates ground fault to test relay and switch (or relay only if "no-trip" mode is selected).
- 7. Open-Fuse Trip Device: Arranged to trip switch open if a phase fuse opens.
- D. High-Pressure, Butt-Type Contact Switch: Operating mechanism uses butt-type contacts and a spring-charged mechanism to produce and maintain high-pressure contact when switch is closed.
  - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. General Electric Company; GE Consumer & Industrial - Electrical Distribution
  - 2. Main-Contact Interrupting Capability: Minimum of twelve (12) times the switch current rating.
  - 3. Operating Mechanism: Manual handle operation to close switch; stores energy in mechanism for opening and closing.
    - a. Electrical Trip: Operation of lever or push-button trip switch, or trip signal from ground-fault relay or remote-control device, causes switch to open.
    - b. Mechanical Trip: Operation of mechanical lever, push button, or other device causes switch to open.
  - 4. Auxiliary Switches: Factory installed, single pole, double throw, with leads connected to terminal block, and including one set more than quantity required for functional performance indicated.
  - 5. Service-Rated Switches: Labeled for use as service equipment.
  - 6. Ground-Fault Relay: Comply with UL 1053; self-powered type with mechanical ground-fault indicator, test function, tripping relay with internal memory, and three-phase current transformer/sensor.
    - a. Configuration: Integrally mounted and/or Remote-mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
    - b. Internal Memory: Integrates the cumulative value of intermittent arcing ground-fault currents and uses the effect to initiate tripping.
    - c. No-Trip Relay Test: Permits ground-fault simulation test without tripping switch.
    - d. Test Control: Simulates ground fault to test relay and switch (or relay only if "no-trip" mode is selected).
  - 7. Open-Fuse Trip Device: Arranged to trip switch open if a phase fuse opens.

## 2.4 INSTRUMENTATION

- A. Instrument Transformers: IEEE C57.13, NEMA EI 21.1, and the following:
  - 1. Potential Transformers: IEEE C57.13; 120 V, 60 Hz, tapped secondary; disconnecting type with integral fuse mountings. Burden and accuracy shall be consistent with connected metering and relay devices.
  - 2. Current Transformers: IEEE C57.13; 5 A, 60 Hz, secondary; bar or window type; double secondary winding and secondary shorting device. Burden and accuracy shall be consistent with connected metering and relay devices.

3. Control-Power Transformers: Dry type, mounted in separate compartments for units larger than 3 kVA.
  4. Current Transformers for Neutral and Ground-Fault Current Sensing: Connect secondary wiring to ground overcurrent relays, via shorting terminals, to provide selective tripping of main and tie circuit breaker. Coordinate with feeder circuit-breaker, ground-fault protection.
- B. Multifunction Digital-Metering Monitor: Microprocessor-based unit suitable for three- or four-wire systems and with the following features:
1. Switch-selectable digital display of the following values with maximum accuracy tolerances as indicated:
    - a. Phase Currents, Each Phase: Plus or minus one percent (+/-1%).
    - b. Phase-to-Phase Voltages, Three Phase: Plus or minus one percent (+/-1%).
    - c. Phase-to-Neutral Voltages, Three Phase: Plus or minus one percent (+/-1%).
    - d. Megawatts: Plus or minus two percent (+/-2%).
    - e. Megavars: Plus or minus two percent (+/-2%).
    - f. Power Factor: Plus or minus two percent (+/-2%).
    - g. Frequency: Plus or minus one-half percent (+/-0.5%).
    - h. Accumulated Energy, Megawatt Hours: Plus or minus two percent (+/-2%); accumulated values unaffected by power outages up to 72 hours.
    - i. Megawatt Demand: Plus or minus two percent (+/-2%); demand interval programmable from 5 to 60 minutes.
    - j. Contact devices to operate remote impulse-totalizing demand meter.
  2. Mounting: Display and control unit flush or semi-flush mounted in instrument compartment door.
- C. Watt-Hour Meters and Wattmeters:
1. Comply with ANSI C12.1.
  2. Three-phase induction type with two (2) stators, each with current and potential coil, rated 5 A, 120 V, 60 Hz.
  3. Suitable for connection to three- and four-wire circuits.
  4. Potential indicating lamps.
  5. Adjustments for light and full load, phase balance, and power factor.
  6. Four-dial clock register.
  7. Integral demand indicator.
  8. Contact devices to operate remote impulse-totalizing demand meter.
  9. Ratchets to prevent reverse rotation.
  10. Removable meter with drawout test plug.
  11. Semi-flush mounted case with matching cover.
  12. Appropriate multiplier tag.

## 2.5 CONTROL POWER

- A. Control Circuits: 120-V ac, supplied through secondary disconnecting devices from control-power transformer.
- B. Electrically Interlocked Main and Tie Circuit Breakers: Two (2) control-power transformers in separate compartments, with interlocking relays, connected to the primary side of each control-power transformer at the line side of the associated main circuit breaker. 120-V secondaries connected through automatic transfer relays to ensure a fail-safe automatic transfer scheme.

- C. Control-Power Fuses: Primary and secondary fuses for current-limiting and overload protection of transformer and fuses for protection of control circuits.
- D. Control Wiring: Factory installed, with bundling, lacing, and protection included. Provide flexible conductors for No. 8 AWG and smaller, for conductors across hinges, and for conductors for interconnections between shipping units.

## 2.6 ACCESSORY COMPONENTS AND FEATURES

- A. Accessory Set: Include tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.

## 2.7 IDENTIFICATION

- A. Nameplate: At least 0.0625-inch-thick laminated plastic (Gravoply), located at eye level on front cover of the switchboard incoming service section.
- B. Provide nameplates for section identification and for each output breaker to indicate load served.
- C. Service Equipment Label: NRTL labeled for use as service equipment for switchboards with one or more service disconnecting and overcurrent protective devices.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Receive, inspect, handle, and store switchboards according to NECA 400 and NEMA PB 2.1.
- B. Examine switchboards before installation. Reject switchboards that are moisture damaged or physically damaged.
- C. Examine elements and surfaces to receive switchboards for compliance with installation tolerances and other conditions affecting performance of the Work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Install switchboards and accessories according to NECA 400 and NEMA PB 2.1.
- B. Equipment Mounting: Install switchboards on concrete base, 4-inch nominal thickness. Comply with requirements for concrete base specified in Section 033000 "Cast-in-Place Concrete".
  - 1. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around the full perimeter of concrete base.
  - 2. For supported equipment, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete floor.
  - 3. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
  - 4. Install anchor bolts to elevations required for proper attachment to switchboards.

- C. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from switchboard units and components.
- D. Comply with mounting and anchoring requirements specified in Section 260548 "Vibration and Seismic Controls for Electrical Systems."
- E. Operating Instructions: Frame and mount the printed basic operating instructions for switchboards, including control and key interlocking sequences and emergency procedures. Fabricate frame of finished wood or metal and cover instructions with clear acrylic plastic. Mount on front of switchboards.
- F. Comply with NECA 1.

### 3.3 CONNECTIONS

- A. Comply with requirements for terminating cable trays specified in Section 270536 "Cable Trays for Electrical Systems." Drawings indicate general arrangement of cable trays, fittings, and specialties.

### 3.4 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs complying with requirements for identification specified in Section 260553 "Identification for Electrical Systems."
- B. Device Nameplates: Label each disconnecting and overcurrent protective device and each meter and control device mounted in compartment doors with a nameplate complying with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

### 3.5 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
  - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- B. Acceptance Testing Preparation:
  - 1. Test insulation resistance for each switchboard bus, component, connecting supply, feeder, and control circuit.
  - 2. Test continuity of each circuit.
- C. Tests and Inspections:
  - 1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
  - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
  - 3. Perform the following infrared scan tests and inspections and prepare reports:
    - a. Initial Infrared Scanning: After Substantial Completion, but not more than sixty (60) days after Final Acceptance, perform an infrared scan of each switchboard. Remove front and/or rear panels so joints and connections are accessible to portable scanner.

- b. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each switchboard eleven (11) months after date of Substantial Completion.
    - c. Instruments and Equipment:
      - 1) Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
  - 4. Test and adjust controls, remote monitoring, and safeties. Replace damaged and malfunctioning controls and equipment.
  - D. Switchboard will be considered defective if it does not pass tests and inspections.
  - E. Prepare test and inspection reports, including a certified report that identifies switchboards included and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.
- 3.6 ADJUSTING
- A. Adjust moving parts and operable components to function smoothly, and lubricate as recommended by manufacturer.
  - B. Set field-adjustable circuit-breaker trip ranges as specified in Section 260573 "Overcurrent Protective Device Coordination Study."
- 3.7 PROTECTION
- A. Temporary Heating: Apply temporary heat, to maintain temperature according to manufacturer's written instructions, until switchboard is ready to be energized and placed into service.
- 3.8 DEMONSTRATION
- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain switchboards, overcurrent protective devices, instrumentation, and accessories, and to use and reprogram microprocessor-based trip, monitoring, and communication units.

END OF SECTION 262413

**CODE INFORMATION**

DATE OF ORIGINAL CONSTRUCTION   
 DATE OF ADDITION

1. GROUP CLASSIFICATION (CHAPTER 3)  
 (PRIMARY)   
 (INCIDENTAL)

2. CONSTRUCTION TYPE (CHAPTER 6)  
 MINIMUM TYPE REQUIRED   
 ACTUAL TYPE PROVIDED (EXISTING)   
 (NEW)

3. BUILDING HEIGHT (CHAPTER 5)  
 ALLOWABLE HEIGHT (STORY/FEET)   
 ACTUAL HEIGHT (STORY/FEET)   
 (STORIES ABOVE GRADE)

4. BUILDING AREA (CHAPTER 5)  
 A) BUILDING AREA (FIRST)  
 EXISTING CONSTRUCTION  sq.ft.  
 NEW CONSTRUCTION  sq.ft.  
 TOTAL FLOOR  sq.ft.  
 B) BUILDING AREA (SECOND)  
 EXISTING CONSTRUCTION  sq.ft.  
 NEW CONSTRUCTION  sq.ft.  
 TOTAL FLOOR  sq.ft.  
 TOTAL (ALL FLOORS)  sq.ft.

5. AREA MODIFICATIONS TO TABLE 503 (FOR EACH SEPARATE BUILDING AS DEFINED BY FIRE WALLS AND/OR EXTERIOR WALLS)

6. CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1) (ALLOWABLE AREA 506.4)

7. CASE 2 - MIXED OCCUPANCY SEPARATED USES (302.3.2) (ALLOWABLE AREA 506.4)

8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601, SEE CODE PLANS FOR SPECIFIC DESIGNATIONS)

1. STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES	<input type="text" value="0"/>	Hr(s)
2. BEARING WALLS: EXTERIOR (TABLE 602) INTERIOR	<input type="text" value="0/1"/>	Hr(s)
3. NONBEARING WALLS & PARTITIONS EXTERIOR (TABLE 602) INTERIOR	<input type="text" value="0/1"/>	Hr(s)
4. NONBEARING WALLS & PARTITIONS INTERIOR	<input type="text" value="0"/>	Hr(s)
5. FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS & JOISTS)	<input type="text" value="0"/>	Hr(s)
6. ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS & JOISTS)	<input type="text" value="0"/>	Hr(s)

9. OCCUPANCY LOAD  
 DESIGN TOTAL FOR BASEMENT   
 TOTAL EXIT CAPACITY FOR BASEMENT   
 DESIGN TOTAL FOR FIRST FLOOR   
 TOTAL EXIT CAPACITY FOR FIRST FLOOR   
 DESIGN TOTAL FOR BUILDING   
 TOTAL EXIT CAPACITY FOR BUILDING

10. MODIFICATIONS

<input type="text"/>	APPROVED	NOT APPROVED
<input type="text"/>	APPROVED	NOT APPROVED
<input type="text"/>	APPROVED	NOT APPROVED

11. ACCESSIBLE BUILDING  DESIGNATED  
 NON DESIGNATED

**12. MINIMUM PLUMBING FIXTURE COUNT (I.P.C. CHAPTER 4) FOR EACH TYPE OF OCCUPANCY PER ENTIRE FACILITY**

GROUP "A3" OCCUPANCY (DESIGN LOAD = NA)

	REQUIRED	PROVIDED
W/C MALE	NA	NA
W/C FEMALE	NA	NA
LAVS	NA	NA
D/F	NA	NA
W/C UNISEX	NA	NA
LAVS UNISEX	NA	NA

GROUP "E" OCCUPANCY (DESIGN LOAD = NA)

	REQUIRED	PROVIDED
W/C	NA	NA
LAVS	NA	NA
D/F	NA	NA

(TOTAL DESIGN LOAD FOR ENTIRE FACILITY = NA)

13. ENTIRE BUILDINGS SPRINKLERED

14. THRESHOLD BUILDING CONDITIONS

15. CODES TO WHICH THIS PROJECT WAS DESIGNED

State Building Code	2021 IBC CTSBC/2022 AMEND.
State Mechanical Code	2021 IMC / 2022 CT
State Plumbing Code	2021 IPC / 2022 CT
State Energy Conservation Code	2021 IECC / 2022 CT
State Electrical Code	2020 NFPA 70 / 2022 CT
State Health Code	MOST CURRENT
OSHA	MOST CURRENT
Section 504	CURRENT
ADA	MOST CURRENT
ANSI 117.1	MOST CURRENT

16. BUILDING AREAS FOR GRANT CALCULATION (ENTIRE FACILITY) (MEASURED TO INSIDE FACE OF EXTERIOR WALLS)

EXISTING UNRENOVATED CONSTRUCTION	<input type="text" value="0"/>	SQ. FT.
EXISTING RENOVATED CONSTRUCTION	<input type="text" value="0"/>	SQ. FT.
EXISTING BEING DEMOLISHED	<input type="text" value="0"/>	SQ. FT.
TOTAL EXISTING CONSTRUCTION	<input type="text" value="38,433"/>	SQ. FT.
TOTAL NEW CONSTRUCTION	<input type="text" value="0"/>	SQ. FT.
TOTAL FACILITY	<input type="text" value="38,433"/>	SQ. FT.

OPEN AREAS (NOT INCLUDED IN TOTAL FACILITY)

NA	<input type="text" value="NA"/>	SQ. FT.
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17. TOTAL CONSTRUCTED BUILDING AREA (OUTSIDE FACE OF EXTERIOR WALLS INCLUDING OPEN AREAS ABOVE)  
 SQ. FT.

**FIRE SAFETY CODE DATA:**

1. CLASSIFICATION OF OCCUPANCY

2. MINIMUM CONSTRUCTION REQUIRED  
 ACTUAL CONSTRUCTION PROVIDED

3. NOTIFICATION / ALARMS (CFSC 2005, NFPA 72, NATIONAL FIRE ALARM CODE 2002)  
 YES  NO

4. DETECTION (CFSC 2005, NFPA 72, NATIONAL FIRE ALARM CODE 2002)  
 YES  NO

5. EXTINGUISHMENT REQUIREMENTS (NFPA 13, 2002)  
 YES  NO

**MEANS OF EGRESS**  
 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT IBC TABLE 1004.1.2

USE	FLOOR AREA IN S.F. PER OCCUPANT
1. CLASSROOMS	20 S.F. NET
2. SHOPS & VOCATIONAL	50 S.F. NET
3. ASSEMBLY WITHOUT FIXED SEATS TABLES AND CHAIRS	7 S.F. NET
4. PLATFORMS	15 S.F. NET
5. LIBRARY READING ROOMS	50 S.F. NET
6. LOCKER ROOMS	100 S.F. GROSS
7. MECHANICAL AREAS	50 S.F. GROSS
8. STORAGE	300 S.F. GROSS
9. BUSINESS AREAS	100 S.F. GROSS
10. Courtyards	15 S.F. NET

MAXIMUM LENGTH OF EXIT TRAVEL  
 1. I.B.C. TABLE 1015.1

**SYMBOL LEGEND**

- PLAN SECTION DETAIL OR ELEVATION- SHEET NUMBER
- INDICATES SLOPE DIRECTION OF SLOPED STRUCTURAL DECK.
- TAPERED INSULATION CRICKET SLOPED @ 2" PER FOOT
- INDICATES SLOPE DIRECTION & INDICATES EXISTING ROOF PITCH.
- NOT IN CONTRACT SCOPE
- WALKWAY PADS. SEE CONSTRUCTION NOTE #2
- EXISTING ROOF DRAIN TO BE REMOVED. SEE DEMOLITION NOTES.
- NEW ROOF DRAIN TO BE INSTALLED. SEE DETAIL #A/2
- EMERGENCY OVERFLOW SCUPPER. SEE DETAIL #A/2
- EXISTING CHIMNEY SEE GENERAL NOTE #4
- METAL DOWNSPOUT. SEE CONSTRUCTION NOTE #3
- EXISTING VENT STACK. SEE DETAIL #A/2
- EXISTING ROOF TOP FAN UNIT. SEE DETAIL #A/2
- EXISTING ROOF TOP MECHANICAL UNIT. SEE DETAIL #A/2
- EXISTING 3'-4" SKYLIGHT SEE DETAIL #A/2
- EXISTING 4'-6" SKYLIGHT SEE DETAIL #A/2
- ROOF HATCH. SEE DETAIL #A/2
- MECHANICAL UNIT SEE DETAIL #A/2

**DEMOLITION NOTES**

- REMOVE ALL EXISTING ROOFING SYSTEM, DOWN TO EXISTING METAL DECK.
- REMOVE ALL PERIMETER METAL FLASHING WITHIN SCOPE OF WORK.
- REMOVE EXISTING ROOF DRAINS & SUMP.
- TEMPORARILY REMOVE EXISTING CAP. REMOVE EXISTING CAST IN PLACE CONC. CAP, RAKE EXISTING MORTAR JOINTS, REMOVE ANY BRICKS OR CRACKED EXISTING BRICK AND MORTAR.
- REMOVE & DISPOSE OF ALL SKYLIGHTS & ASSOCIATED CURBS.

**GENERAL NOTES**

- ALL FLAT ROOFS TO RECEIVE 2" PER FOOT TAPERED RIGID INSULATION MINIMUM UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL DIMENSIONS & PERFORM TEST CUTS AT EACH ROOF PITCH TO THE BID.
- ALL MATERIALS ARE NEW UNLESS OTHERWISE NOTED "EXISTING".
- ALL WOOD BLOCKING, PLYWOOD & NAILERS TO BE PRESSURE TREATED. (P.T.)
- ALL WOOD BLOCKING INDICATED IN DETAILS ARE TO BE ANCHORED TO THE EXISTING STRUCTURE.
- ALL MEMBRANE FLASHING INDICATED IS TO EXTEND A MINIMUM OF 6". (VERTICAL OR HORIZONTAL)
- CONTRACTOR IS TO SURVEY THE EXISTING ROOF DECKS W/A LEVEL (AFTER DEMOLITION) TO VERIFY THE SLOPES INDICATED ON PLAN ARE ACCURATE. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY ADDITIONAL ROOFING OPERATIONS.
- CONTRACTOR IS TO INSPECT THE UNDERSIDE OF ALL ROOF DECKS PRIOR TO ROOFING OPERATIONS TO ENSURE THAT NO INTERIOR MATERIALS, EQUIPMENT, FINISHES OR OBJECTS WILL BE PRECIPITATED OR DAMAGED.
- CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING PROJECT & WILL REPLACE ANY & ALL DAMAGED EQUIPMENT W/NO ADDITIONAL COST TO OWNER.
- SITE AREAS DISTURBED SHALL BE CLEANED & RE-LEVELLED. W/LAWN AREAS MAGNETICALLY RAKED TO REMOVE ANY METAL DEBRIS & RE-SEED AS REQUIRED TO MATCH ADJACENT CONDITIONS.
- CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR CLEAN UP OF ROOFING MATERIALS & DEBRIS THAT PENETRATES THE INTERIOR ENVELOPE OF THE BUILDING W/NO ADDITIONAL COST TO THE OWNER.
- SNAKE/CLEAN OUT ALL EXISTING VERTICAL & HORIZONTAL LEADERS OUT TO NEAREST MANHOLE OUTSIDE OF BUILDING.
- ALL CRICKETS ARE TO BE SLOPED @ A MINIMUM OF 2" PER FOOT & COORDINATE CRICKETS AROUND EXIST. HVAC UNITS AS REQUIRED TO AVOID PONDING.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL & RE-INSTALLATION OF ALL HVAC UNITS INCLUDING ANY ELECTRICAL OR MECHANICAL CONNECTIONS. THIS MAY INCLUDE THE EXTENSION OF EXISTING ELECTRICAL & DUCTWORK SYSTEMS TO ACCOMMODATE NEW MECHANICAL UNIT CURBING & NEW ROOFING SYSTEM.
- SNAKE/CLEAN OUT ALL EXISTING VENT STACKS BEFORE THE INSTALLATION OF METAL SLEEVE.
- ALL DRAIN PIPING IS INSULATED ABOVE THE CEILING. THE EXACT ROUTE WILL BE DETERMINED IN THE FIELD. MAKE MINOR ADJUSTMENT IN THE ROUTE AT NO ADDITIONAL COST TO OWNER.
- NEW ROOF INSULATION TO BE A MINIMUM OF R-30 AT ALL NEW ROOF DRAINS AND/OR THE LOW POINTS OF THE ROOF AREAS.
- ALL ANTENNAE, CONDUITS & ANY OTHER OBJECTS TO REMAIN AFFECTED BY SCOPE OF WORK, TO BE REMOVED & REINSTALLED.

**CONSTRUCTION NOTES**

- CONTRACTOR TO PROVIDE A SPECIFIED QUANTITY OF EXISTING DECK REPAIR & REPLACEMENT. SEE PROJECT MANUAL.
- WALKWAY PADS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION. COORDINATE & FINISH EXACT ROUTE W/ OWNER'S ARCHITECT.
- EXISTING DOWNSPOUT LOCATION, PROVIDE NEW METAL DOWNSPOUT & CONNECT TO EXISTING STUP-UP. SEE PROJECT MANUAL.
- CHIMNEY TO RECEIVE NEW CAST IN PLACE CONCRETE CAP TO MATCH EXISTING. RE-POINT ALL EXISTING MORTAR JOINTS TO MATCH EXISTING. REPLACE ANY DAMAGED OR CRACKED BRICKS TO MATCH EXISTING. SEE DETAIL #A/2 AND SPECIFICATION.

**ROOF AREAS**

ROOF "A"	32,295	SF.
ROOF "B"	3,830	SF.
ROOF "C"	958	SF.
ROOF "D"	831	SF.
ROOF "E"	719	SF.

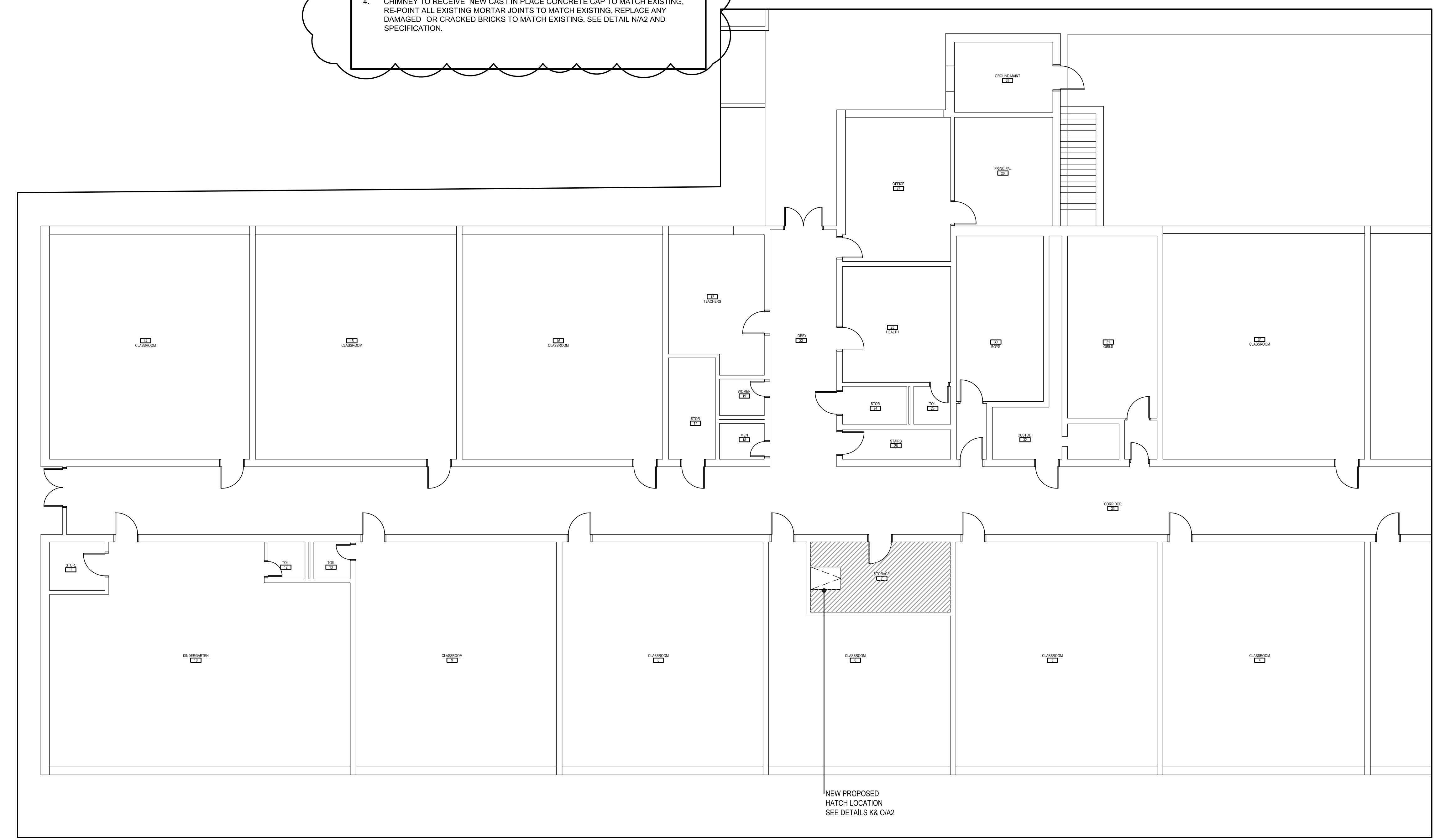
TOTAL ROOF AREAS: 38,433 SF.  
 THIS AREA IS APPROXIMATE - V.I.F.  
 IECC CODE REQUIREMENT R-VALUE MIN. R-30  
 CONNECTED ZONE 2B  
 IECC REQUIREMENT R-VALUE: R-0.0333

**ROOF ASSEMBLY**

OUTSIDE AIR	0.17
ROOF MEMBRANE	0.33
COVERBOARD	2.20
2" POLYSTY INSUL.	29.7
EXISTING DECK	1.23
INSIDE AIR	0.61
R-VALUE TOTAL	34.24

**CODE INFORMATION**

USE GROUP: E  
 CONSTRUCTION CLASS: 2B  
 RISK CATEGORY #3  
 ULTIMATE DESIGN WIND SPEED: 135 MPH  
 NOMINAL DESIGN WIND SPEED: 105 MPH  
 FACTORY MUTUAL ENGINEERING & RESEARCH CORPORATION (FM) ROOF ASSEMBLY CLASSIFICATION OF NON-COMBUSTIBLE CONSTRUCTION. WIND UPLIFT REQUIREMENT OF 140 FOR FIELD, 175 FOR PERIMETER AND I-110 FOR CORNERS, IN ACCORDANCE WITH FM PROPERTY LOSS PREVENTION DATA SHEETS 1-28.



**C1 PARTIAL FLOOR PLAN**  
 1/8"=1'-0"



Revision	Description	Date	Revised By
#1	ADDENDUM #1	04/09/2024	K.LINSLEY
#2	ADDENDUM #2	04/19/2024	M.GRECO



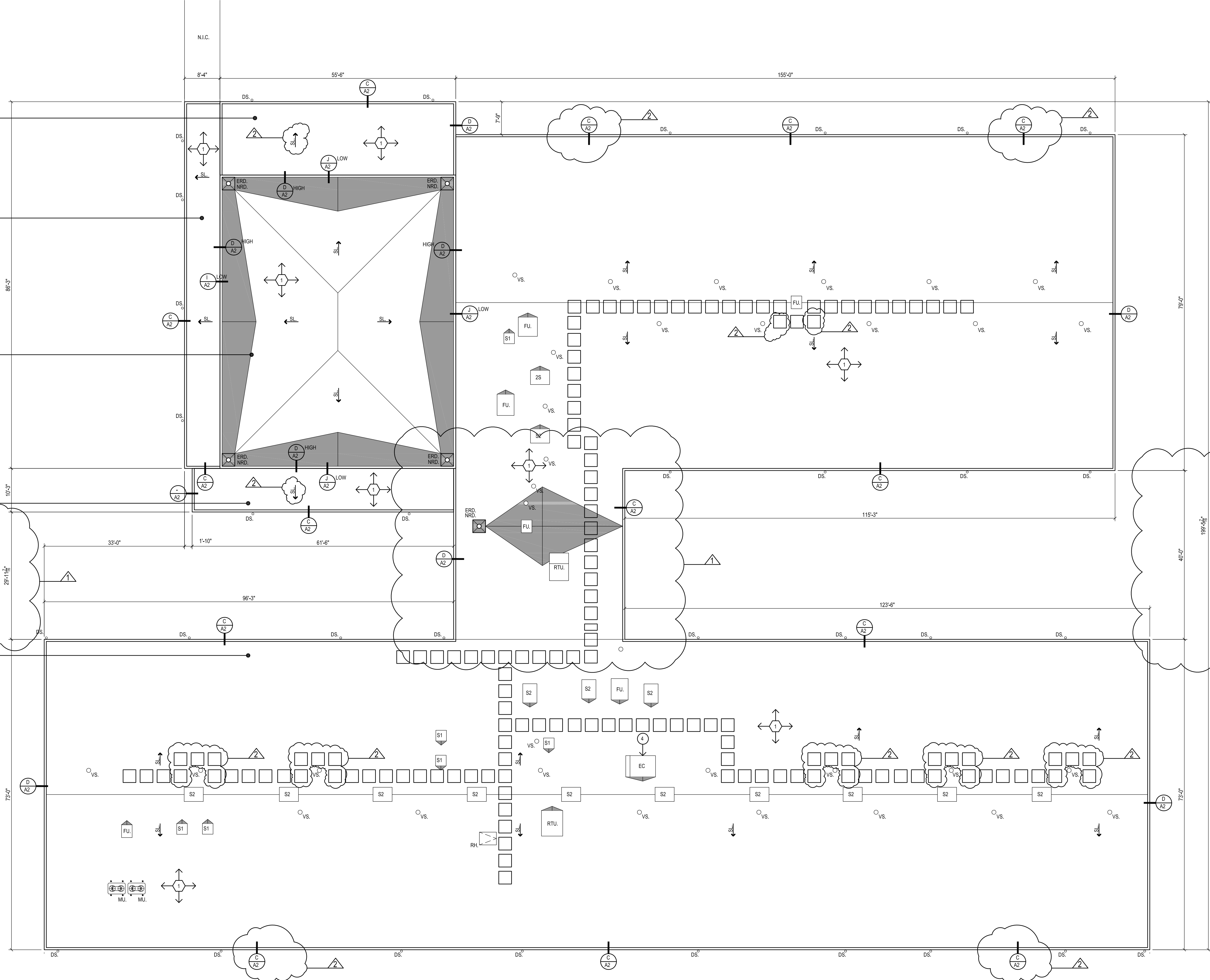
**ROOF "C"**  
 ROOF SYSTEM: KEE  
 EXIST. DECK: METAL DECK  
 INSULATION: 5" BASE LAYER  
 † TAPERED INSULATION  
 VAPOR BARRIER  
 ELEVATION: 29'-0" ±

**ROOF "E"**  
 ROOF SYSTEM: KEE  
 EXIST. DECK: METAL DECK  
 INSULATION: 5" BASE LAYER  
 † TAPERED INSULATION  
 VAPOR BARRIER  
 ELEVATION: 29'-0" ±

**ROOF "B"**  
 ROOF SYSTEM: KEE  
 EXIST. DECK: METAL DECK  
 INSULATION: 5" BASE LAYER  
 † TAPERED INSULATION  
 VAPOR BARRIER  
 ELEVATION: 42'-0" ±

**ROOF "D"**  
 ROOF SYSTEM: KEE  
 EXIST. DECK: METAL DECK  
 INSULATION: 5" BASE LAYER  
 † TAPERED INSULATION  
 VAPOR BARRIER  
 ELEVATION: 29'-0" ±

**ROOF "A"**  
 ROOF SYSTEM: KEE  
 EXIST. DECK: METAL DECK  
 INSULATION: 5" BASE LAYER  
 † TAPERED INSULATION  
 VAPOR BARRIER  
 ELEVATION: 29'-0" ±



**A1** OVERALL ROOF PLAN  
 3/32"=1'-0"

**SYMBOL LEGEND**

- X/XX - PLAN SECTION DETAIL OR ELEVATION-SHEET NUMBER
- SL - INDICATES SLOPE DIRECTION OF SLOPED STRUCTURAL DECK.
- ▲ - TAPERED INSULATION CRICKET SLOPED @ 1/2" PER FOOT
- ② - INDICATES SLOPE DIRECTION & INDICATES EXISTING ROOF PITCH.
- N.I.C. - NOT IN CONTRACT SCOPE
- - WALKWAY PADS. SEE CONSTRUCTION NOTE #2
- ERD - EXISTING ROOF DRAIN TO BE REMOVED. SEE DEMOLITION NOTES.
- NRD - NEW ROOF DRAIN TO BE INSTALLED. SEE DETAIL A/A2
- OSC - EMERGENCY OVERFLOW SCUPPER. SEE DETAIL B/A2
- EC - EXISTING CHIMNEY SEE GENERAL NOTE #4
- DS - METAL DOWNSPOUT. SEE CONSTRUCTION NOTE #3
- VS - EXISTING VENT STACK. SEE DETAIL E/A2
- FU - EXISTING ROOF TOP FAN UNIT. SEE DETAIL F/A2
- RTU - EXISTING ROOF TOP MECHANICAL UNIT. SEE DETAIL G/A2
- S1 - EXISTING 3'-4" SKYLIGHT SEE DETAIL H/A2
- S2 - EXISTING 4'-6" SKYLIGHT SEE DETAIL H/A2
- RH - ROOF HATCH. SEE DETAIL K & O/A2
- MU - MECHANICAL UNIT SEE DETAIL M/A2
- PP - PITCH POCKET. SEE DETAIL L/A2

- GENERAL NOTES**
- ALL FLAT ROOFS TO RECEIVE 5" PER FOOT TAPERED RIGID INSULATION MINIMUM UNLESS OTHERWISE NOTED.
  - FIELD VERIFY ALL DIMENSIONS & PERFORM TEST CUTS AT EACH ROOF PRIOR TO THE BID.
  - ALL MATERIALS ARE NEW UNLESS OTHERWISE NOTED "EXISTING".
  - ALL WOOD BLOCKING, PLYWOOD & NAILERS TO BE PRESSURE TREATED. (P.T.)
  - ALL WOOD BLOCKING INDICATED IN DETAILS ARE TO BE ANCHORED TO THE EXISTING STRUCTURE.
  - ALL MEMBRANE FLASHING INDICATED IS TO EXTEND A MINIMUM OF 8" (VERTICAL OR HORIZONTAL)
  - CONTRACTOR IS TO SURVEY THE EXISTING ROOF DECKS W/A LEVEL (AFTER DEMOLITION) TO VERIFY THE SLOPES INDICATED ON PLAN ARE ACCURATE. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY ADDITIONAL ROOFING OPERATIONS.
  - CONTRACTOR IS TO INSPECT THE UNDERSIDE OF ALL ROOF DECKS PRIOR TO ROOFING OPERATIONS TO ENSURE THAT NO INTERIOR MATERIALS, EQUIPMENT, FINISHES OR OBJECTS WILL BE PERISHED OR DAMAGED.
  - CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING PROJECT & WILL REPLACE ANY & ALL DAMAGED EQUIPMENT W/NO ADDITIONAL COST TO OWNER.
  - SITE AREAS DISTURBED SHALL BE CLEANED & RE-LEVELLED. W/LAWN AREAS MAGNETICALLY RAKED TO REMOVE ANY METAL DEBRIS & RE-SEED AS REQUIRED TO MATCH ADJACENT CONDITIONS.
  - CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR CLEAN UP OF ROOFING MATERIALS & DEBRIS THAT PENETRATES THE INTERIOR ENVELOPE OF THE BUILDING W/NO ADDITIONAL COST TO THE OWNER.
  - SNAKE/CLEAN OUT ALL EXISTING VERTICAL & HORIZONTAL LEADERS OUT TO NEAREST MANHOLE OUTSIDE OF BUILDING.
  - ALL CRICKETS ARE TO BE SLOPED @ A MINIMUM OF 1/2" PER FOOT & COORDINATE CRICKETS AROUND EXIST. HVAC UNITS AS REQUIRED TO AVOID PONDING.
  - CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL & RE-INSTALLATION OF ALL HVAC UNITS INCLUDING ANY ELECTRICAL OR MECHANICAL CONNECTIONS. THIS MAY INCLUDE THE EXTENSION OF EXISTING ELECTRICAL & DUCTWORK SYSTEMS TO ACCOMMODATE NEW MECHANICAL UNIT CURBING & NEW ROOFING SYSTEM.
  - SNAKE/CLEAN OUT ALL EXISTING VENT STACKS BEFORE THE INSTALLATION OF METAL SLEEVE.
  - ALL DRAIN PIPING IS INSULATED ABOVE THE CEILINGS. THE EXACT ROUTE WILL BE DETERMINED IN THE FIELD. MAKE MINOR ADJUSTMENT IN THE ROUTE AT NO ADDITIONAL COST TO OWNER.
  - NEW ROOF INSULATION TO BE A MINIMUM OF R-30 AT ALL NEW ROOF DRAINS AND/OR THE LOW POINTS OF THE ROOF AREAS.
  - ALL ANTENNAE, CONDUITS & ANY OTHER OBJECTS TO REMAIN AFFECTED BY SCOPE OF WORK, TO BE REMOVED & REINSTALLED.

- DEMOLITION NOTES**
- REMOVE ALL EXISTING ROOFING SYSTEM, DOWN TO EXISTING METAL DECK.
  - REMOVE ALL PERIMETER METAL FLASHING WITHIN SCOPE OF WORK.
  - REMOVE EXISTING ROOF DRAINS & SUMP.
  - TEMPORARILY REMOVE EXISTING CAP. REMOVE EXISTING CAST IN PLACE CONC. CAP. RAKE EXISTING MORTAR JOINTS. REMOVE ANY CRACKED OR CHIPPED EXISTING BRICK AND MORTAR.
  - REMOVE & DISPOSE OF ALL SKYLIGHTS & ASSOCIATED CURBS.

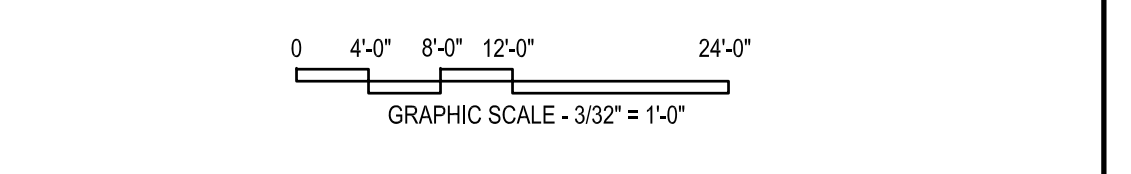
- CONSTRUCTION NOTES**
- CONTRACTOR TO PROVIDE A SPECIFIED QUANTITY OF EXISTING DECK REPAIR & REPLACEMENT. SEE PROJECT MANUAL.
  - WALKWAY PADS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION. COORDINATE & FINALIZE EXACT LOCATIONS WITH THE ARCHITECT.
  - EXISTING DOWNSPOUT LOCATION. PROVIDE NEW METAL DOWNSPOUT & CONNECT TO EXISTING SETUP-UP. SEE PROJECT MANUAL.
  - CHIMNEY TO RECEIVE NEW CAST IN PLACE CONCRETE CAP TO MATCH EXISTING. RE-POINT ALL EXISTING MORTAR JOINTS TO MATCH EXISTING. REPLACE ANY DAMAGED OR CRACKED BRICKS TO MATCH EXISTING. SEE DETAIL N/A2 AND SPECIFICATION.

ROOF AREAS	ROOF ASSEMBLY
ROOF "A" 32,295 SF.	OUTSIDE AIR 0.17
ROOF "B" 3,830 SF.	ROOF MEMBRANE 0.33
ROOF "C" 958 SF.	COVERBOARD 2.20
ROOF "D" 631 SF.	5" POLYISO INSUL 29.7
ROOF "E" 719 SF.	EXISTING DECK 1.23
	INSIDE AIR 0.61
<b>TOTAL ROOF AREAS: 38,433 SF.</b>	<b>R-VALUE TOTAL 34.24</b>

**CODE INFORMATION**

USE GROUP: E  
 CONSTRUCTION CLASS: 2B  
 RISK CATEGORY #3  
 ULTIMATE DESIGN WIND SPEED: 120 MPH  
 NOMINAL DESIGN WIND SPEED: 105 MPH

FACTORY MUTUAL ENGINEERING & RESEARCH CORPORATION (FM): ROOF ASSEMBLY CLASSIFICATION OF NON-COMBUSTIBLE CONSTRUCTION, WIND UPLIFT REQUIREMENT OF 140 FOR FIELD, 175 FOR PERIMETER AND 1-110 FOR CORNERS, IN ACCORDANCE WITH FM PROPERTY LOSS PREVENTION DATA SHEETS 1-28.



Project Title:  
**PARTIAL ROOF REPLACEMENT AT:  
 JULIET LONG SCHOOL**  
 1854 CT-12  
 GALES FERRY, CONNECTICUT 06335



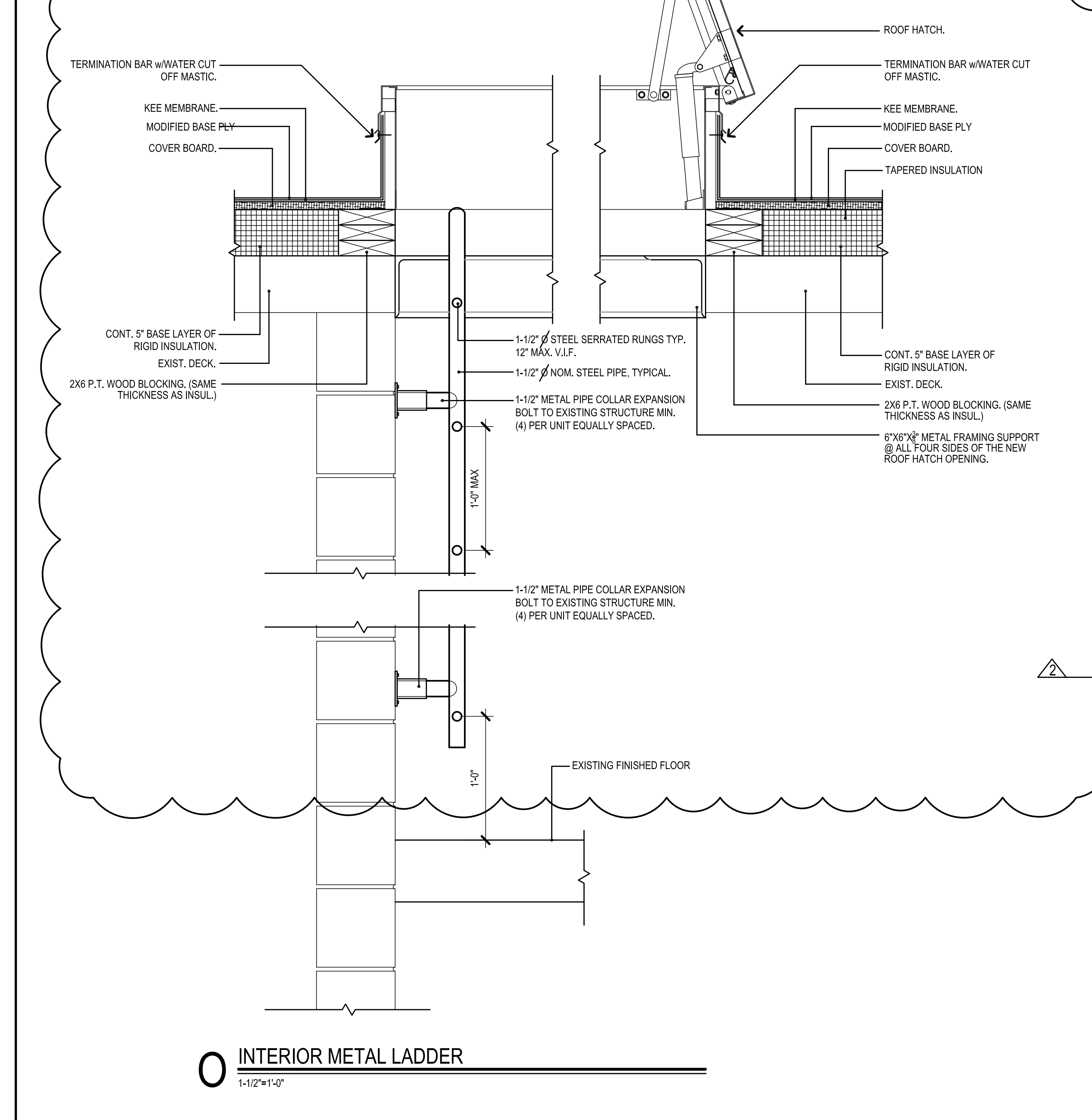
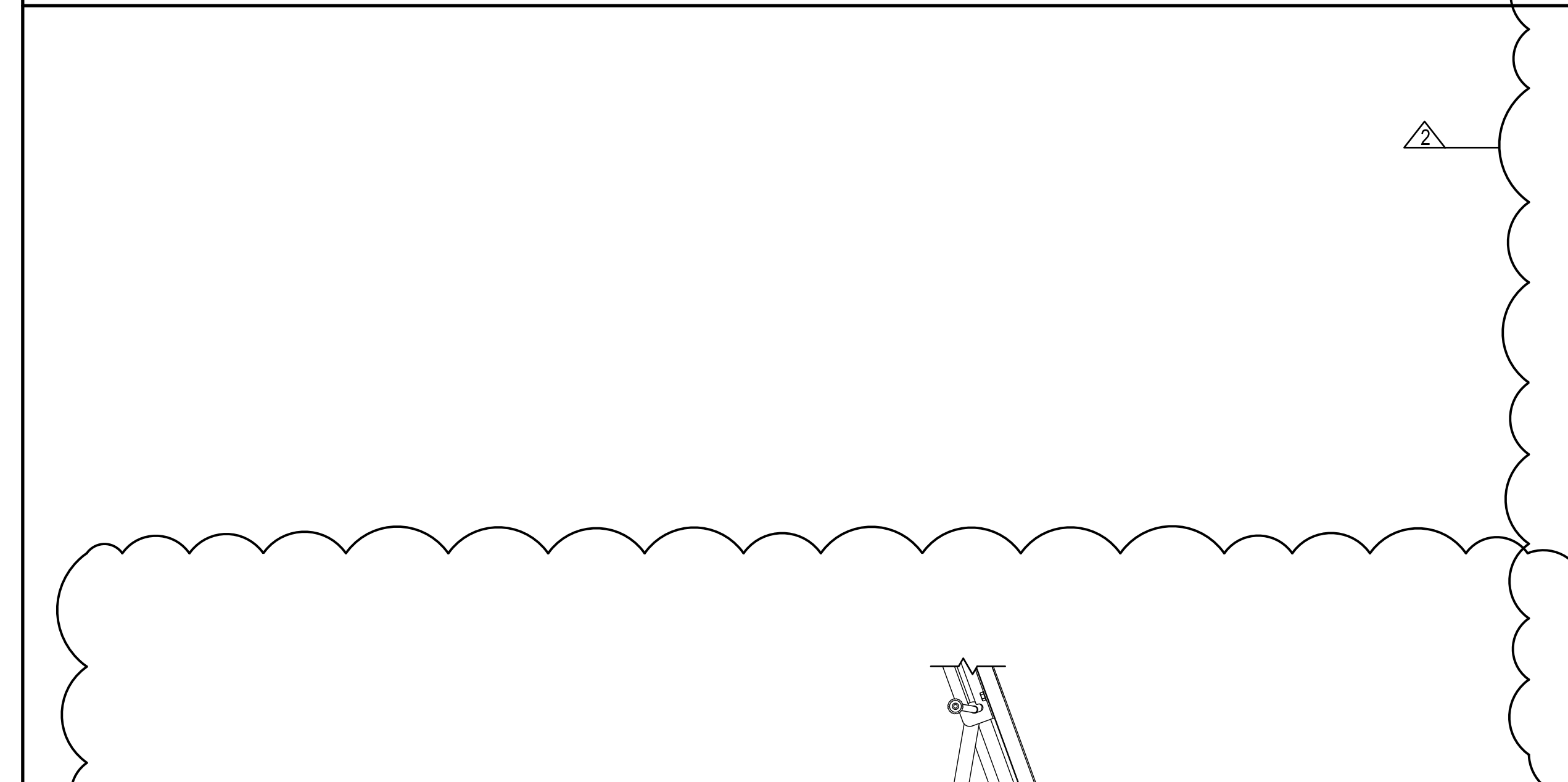
**SILVER PETRUCCI + ASSOCIATES**  
 3190 WHITNEY AVENUE HAMDEN CT 06518  
 311 STATE STREET NEW LONDON CT 06320  
 203 230 9007 silverpetrucci.com

Revision	Description	Date	Revised By
#1	ADDENDUM #1	04/08/2024	K.JINSLEY
#2	ADDENDUM #2	04/19/2024	M.GRECO

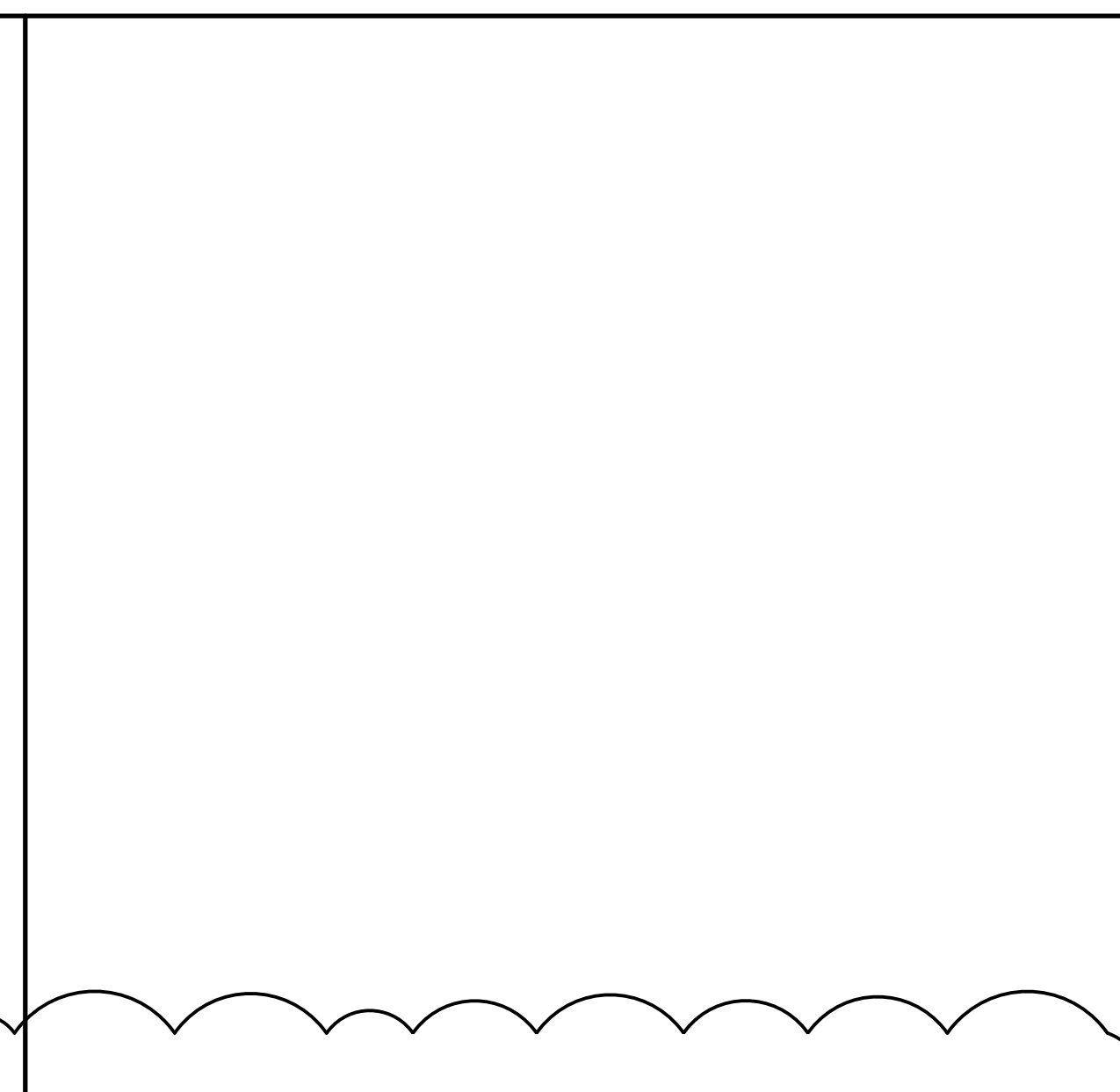
Drawing Title:  
**OVERALL ROOF PLAN**  
 STATE PROJECT 072-0096 RR/PV

Date: 02/02/2024  
 Scale: 3/32"=1'-0"  
 Drawn By: MAG  
 Project Number: 22.331

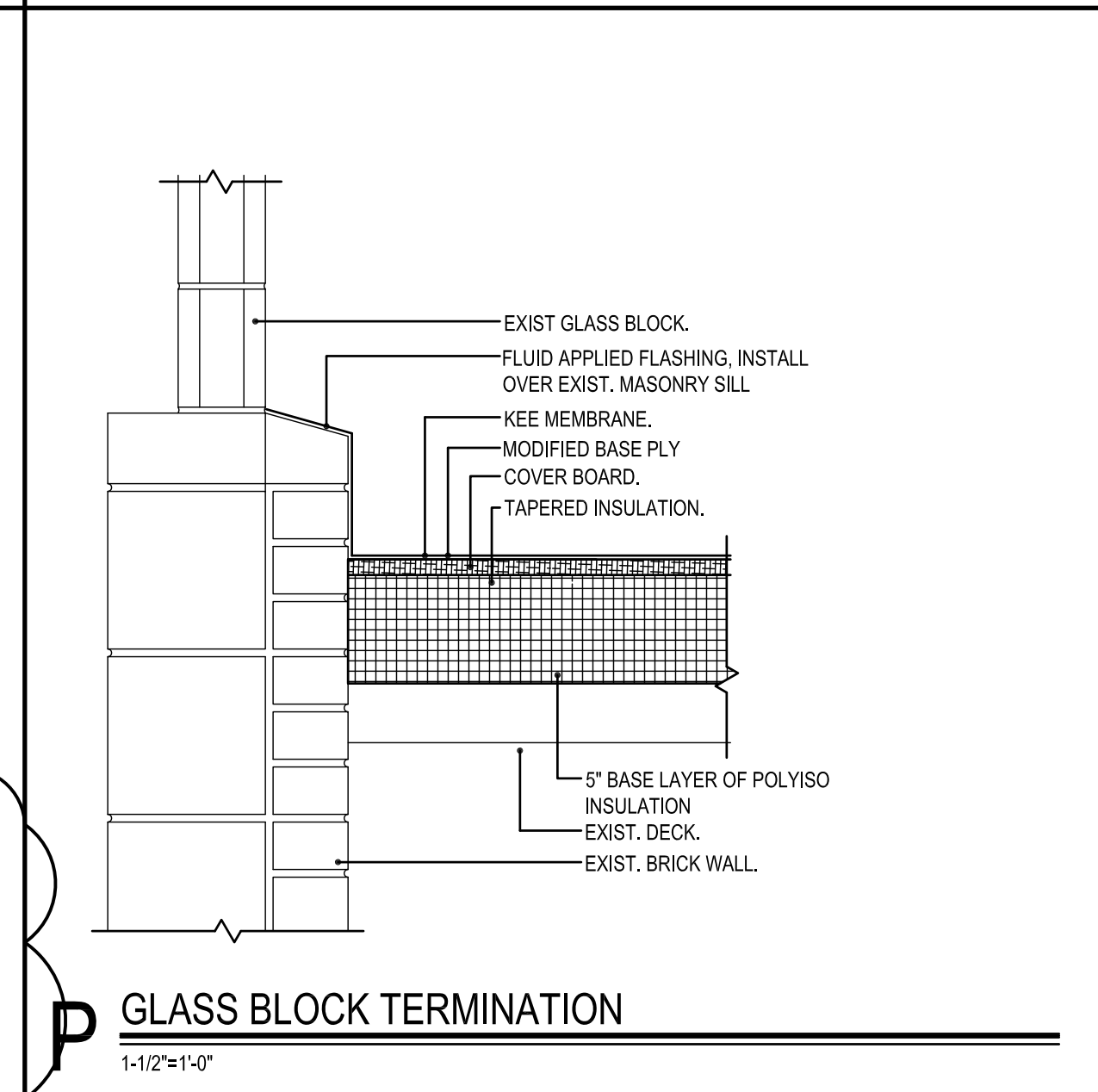
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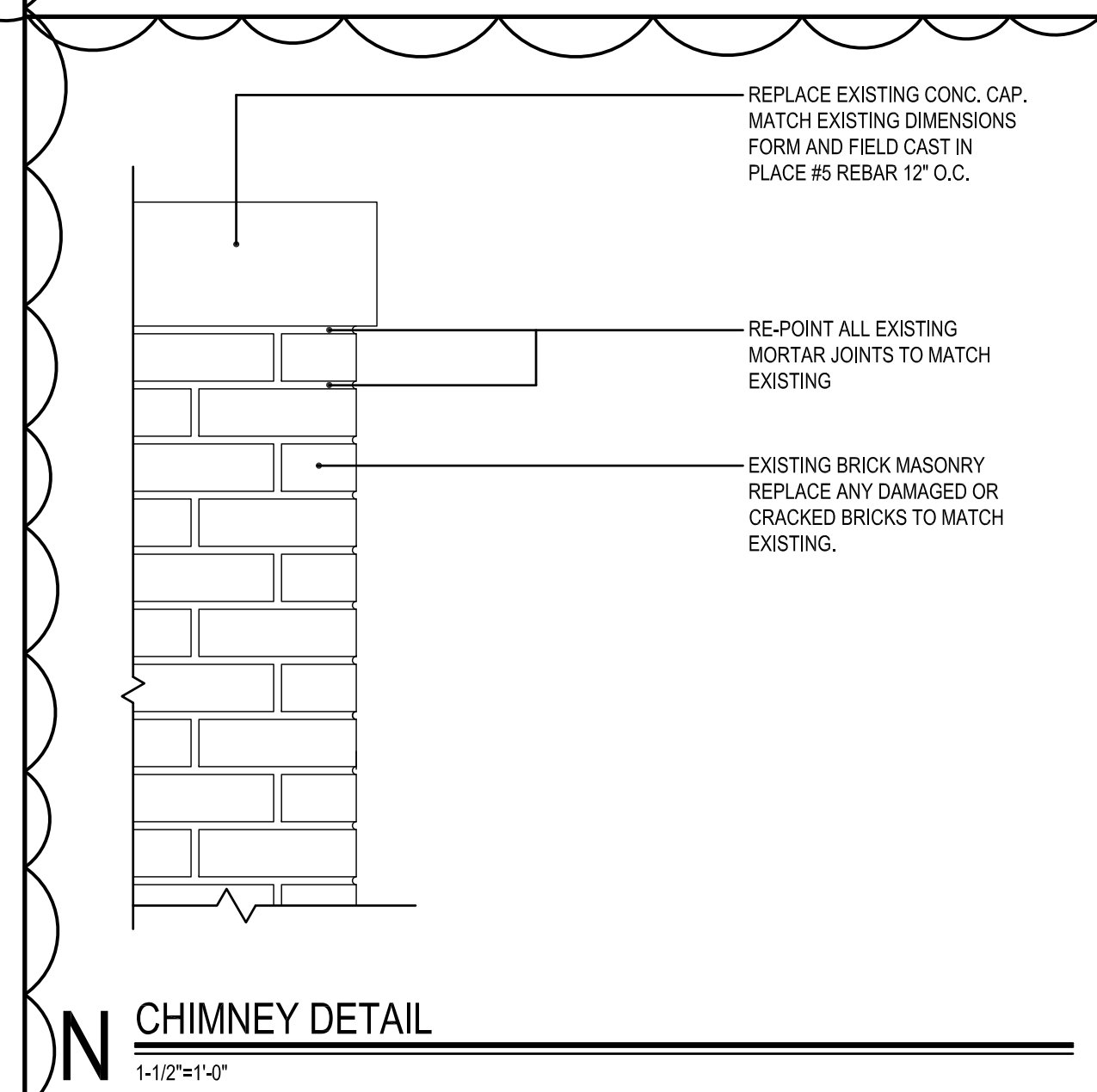
**O INTERIOR METAL LADDER**  
1-1/2"x1'-0"



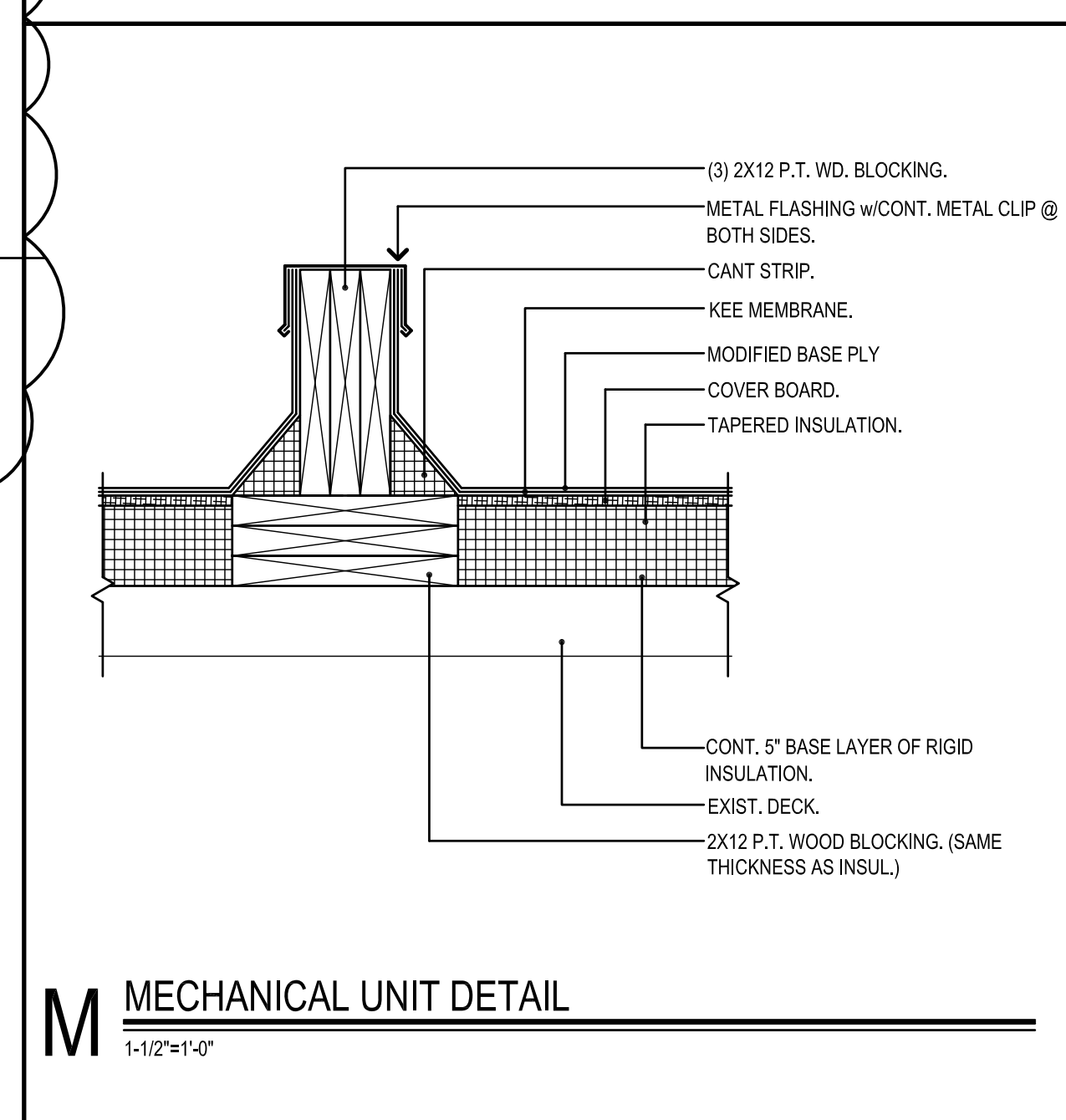
**L PITCH POCKET**  
1-1/2"x1'-0"



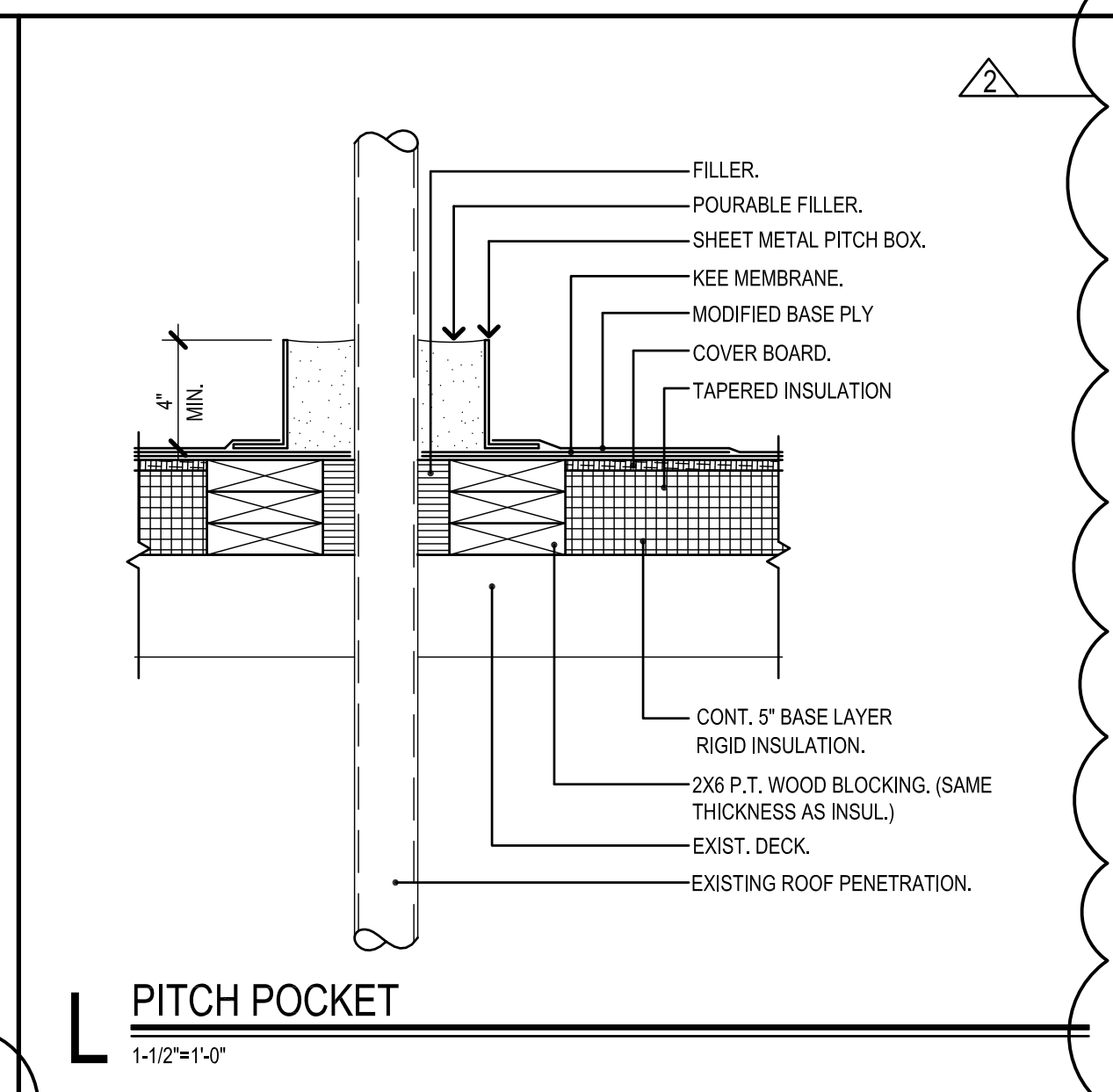
**P GLASS BLOCK TERMINATION**  
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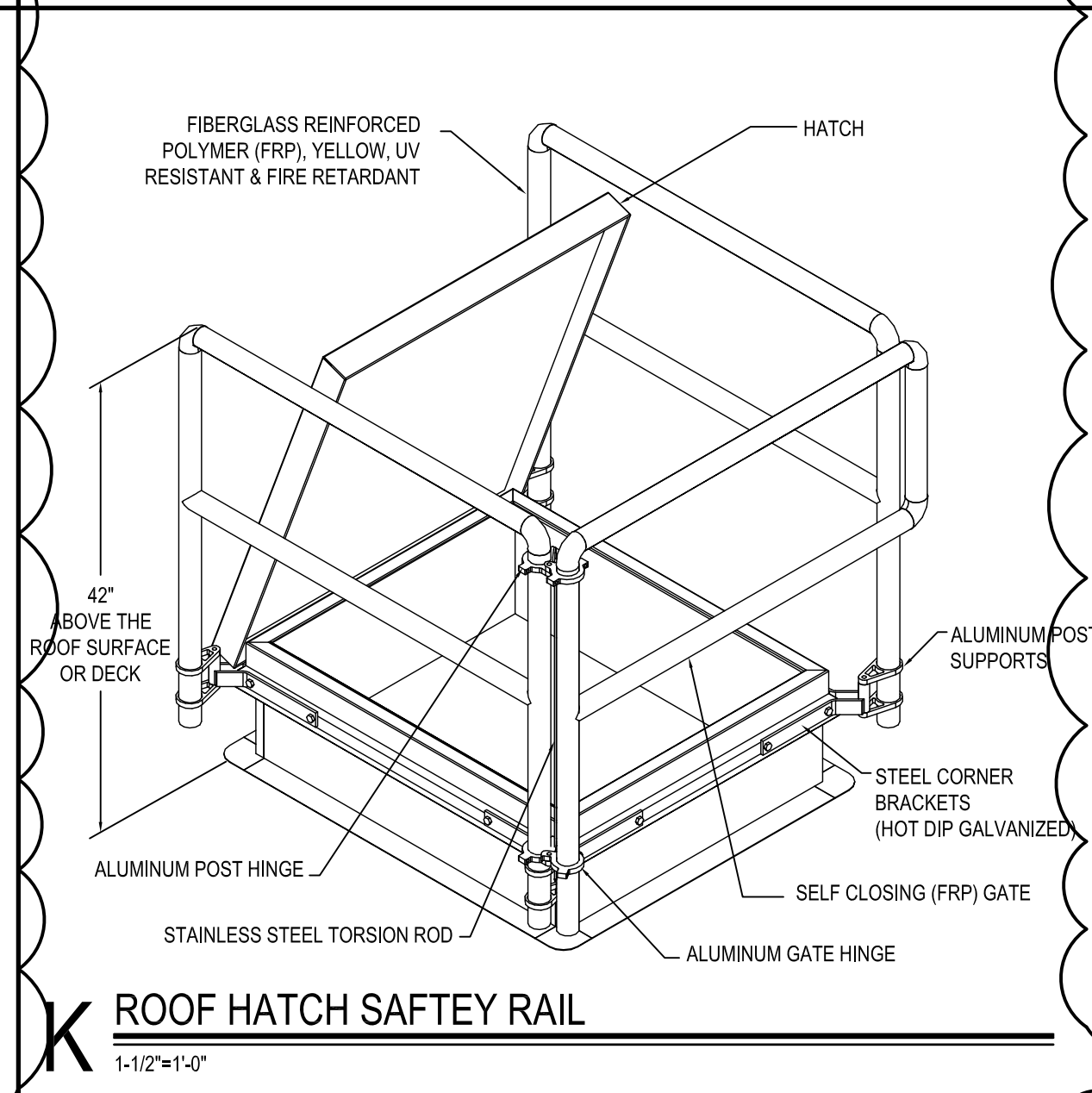
**N CHIMNEY DETAIL**  
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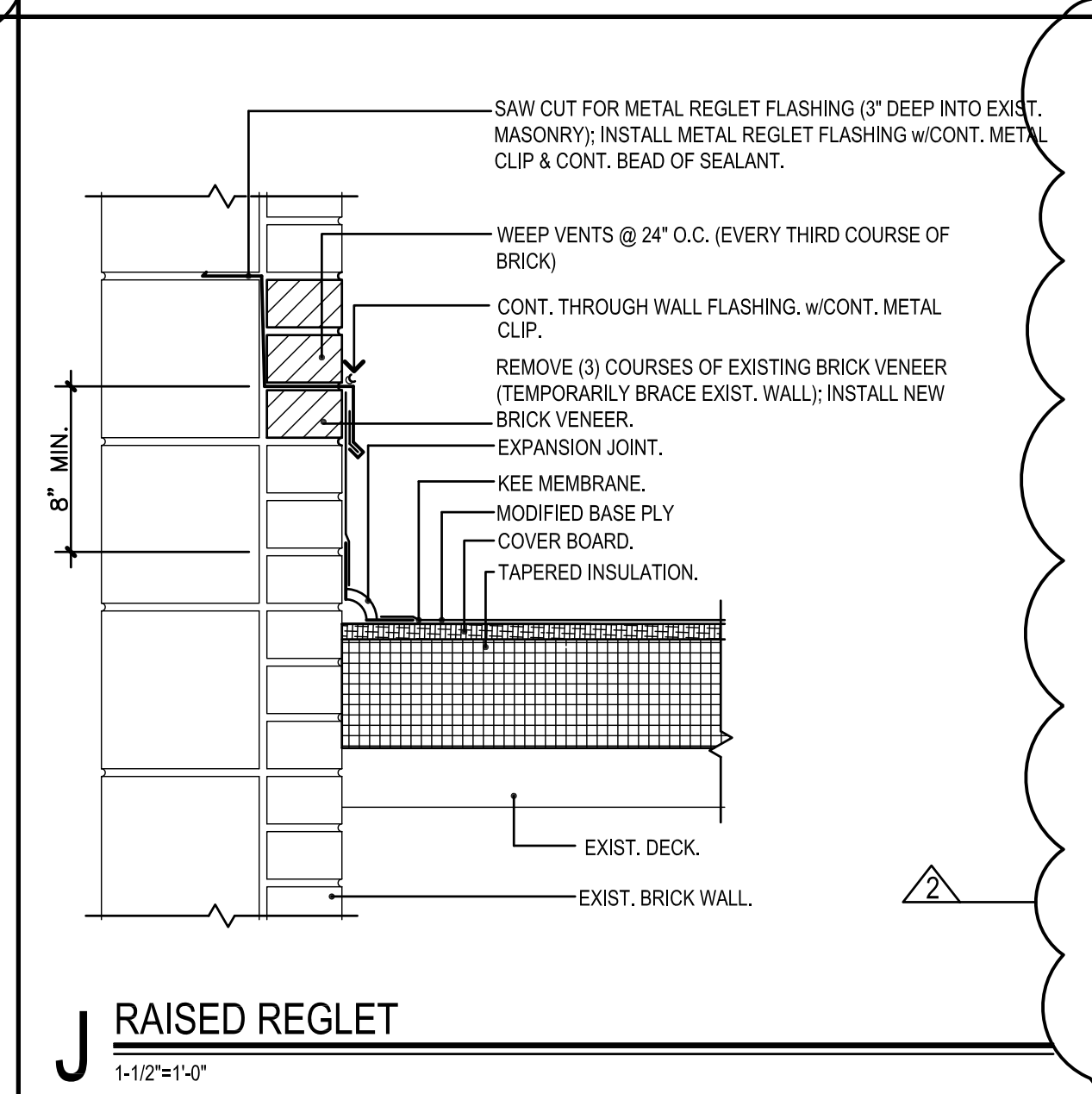
**M MECHANICAL UNIT DETAIL**  
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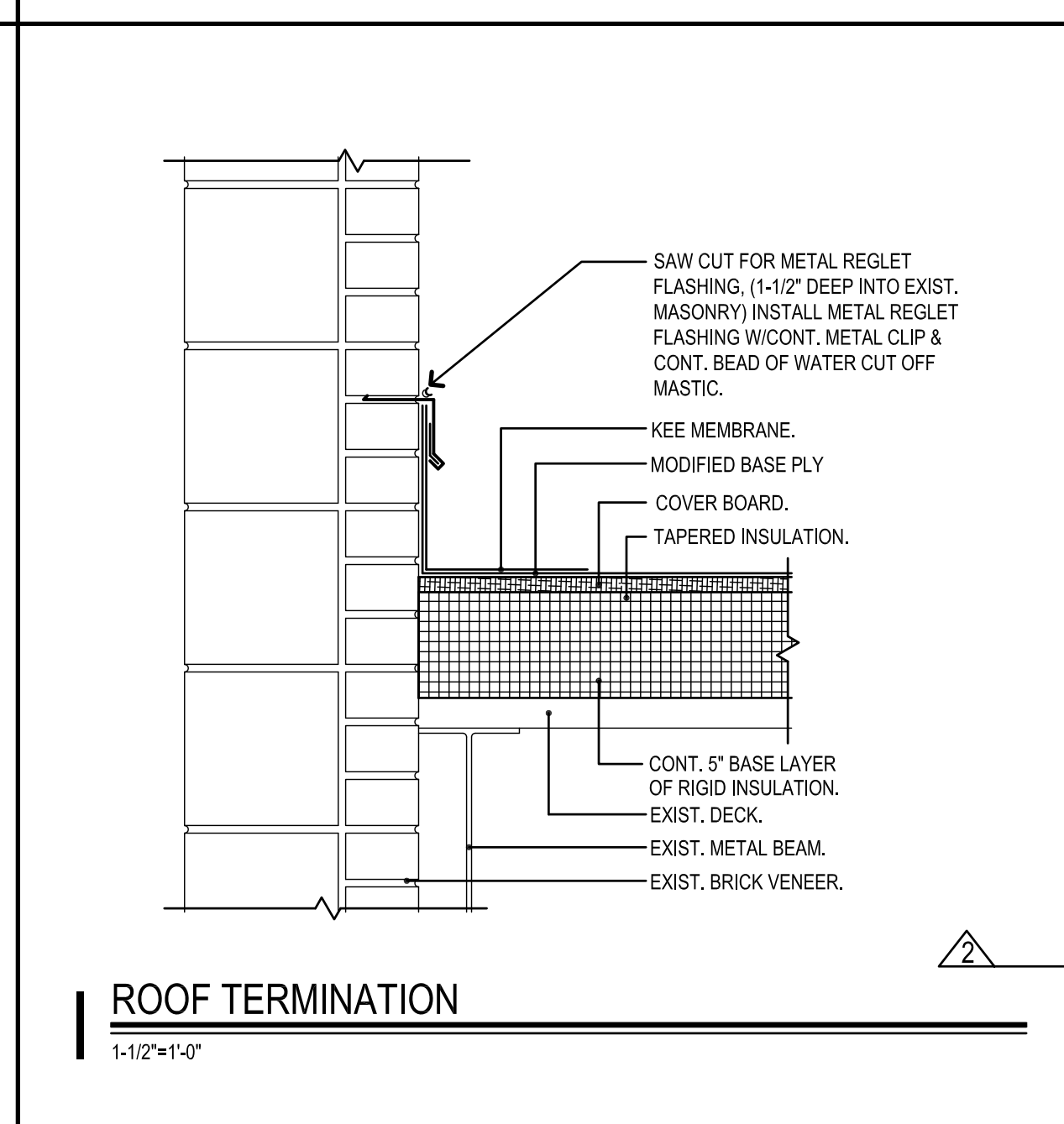
**L PITCH POCKET**  
1-1/2"x1'-0"



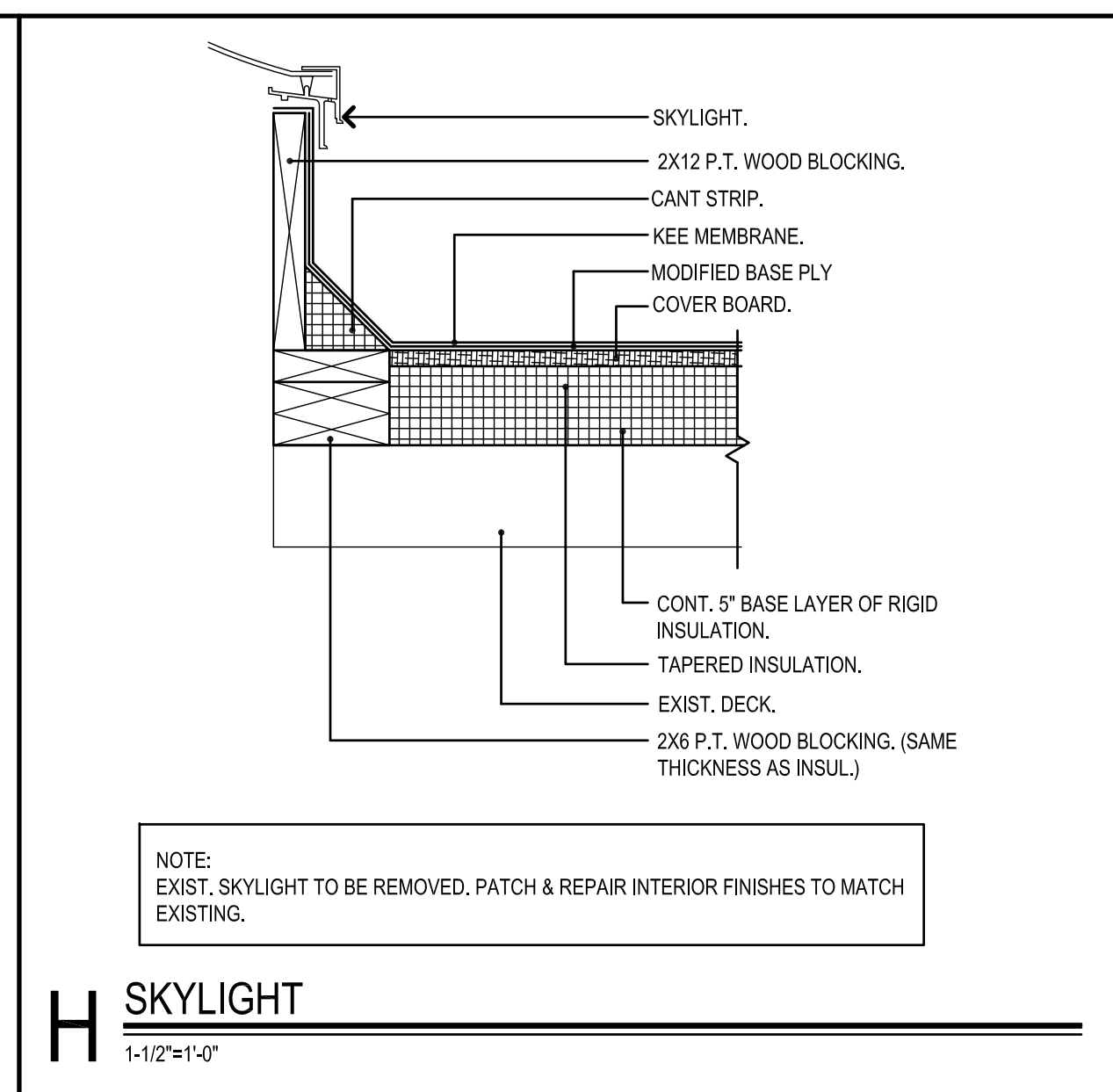
**K ROOF HATCH SAFETY RAIL**  
1-1/2"x1'-0"



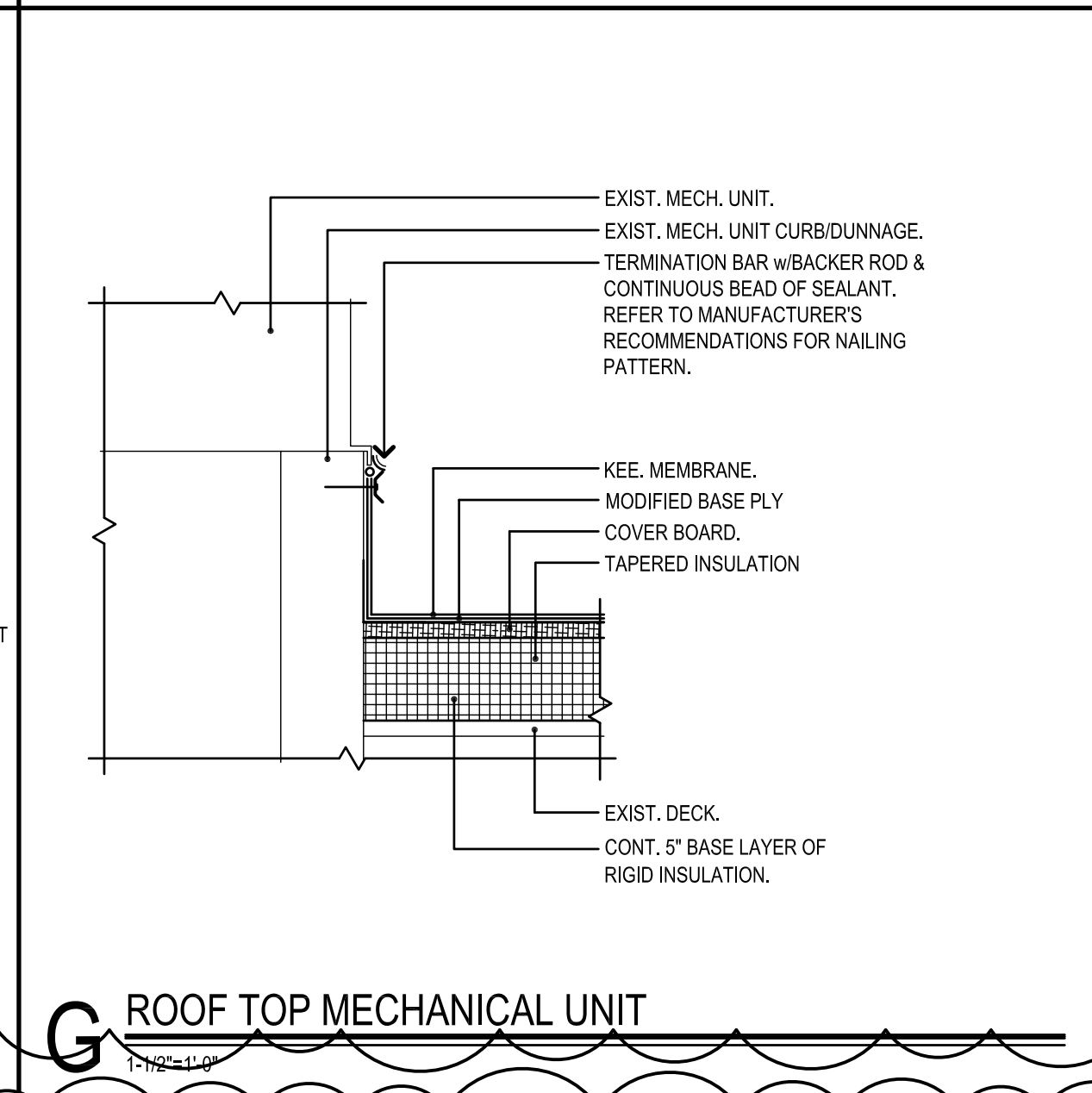
**J RAISED REGLET**  
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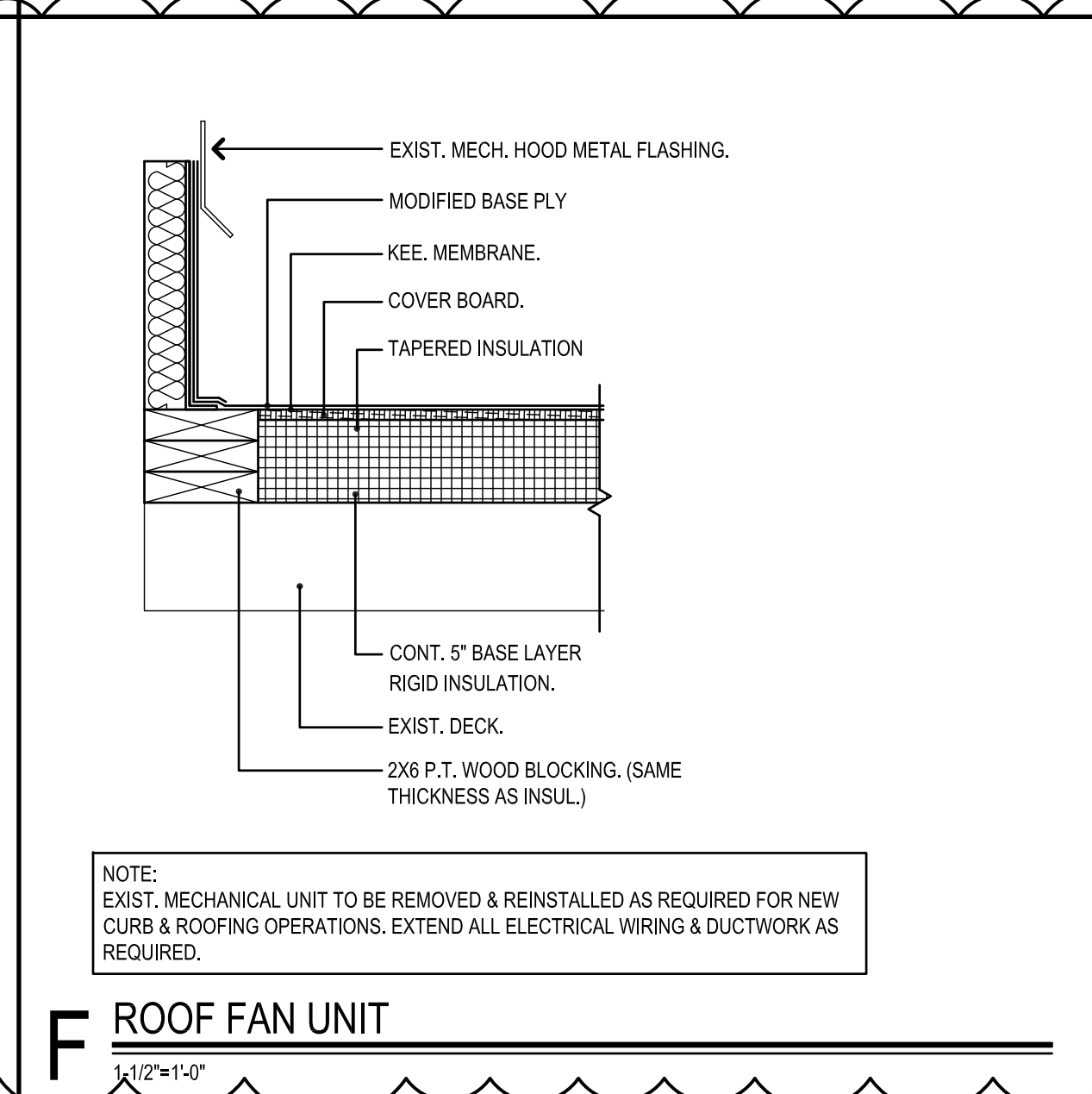
**I ROOF TERMINATION**  
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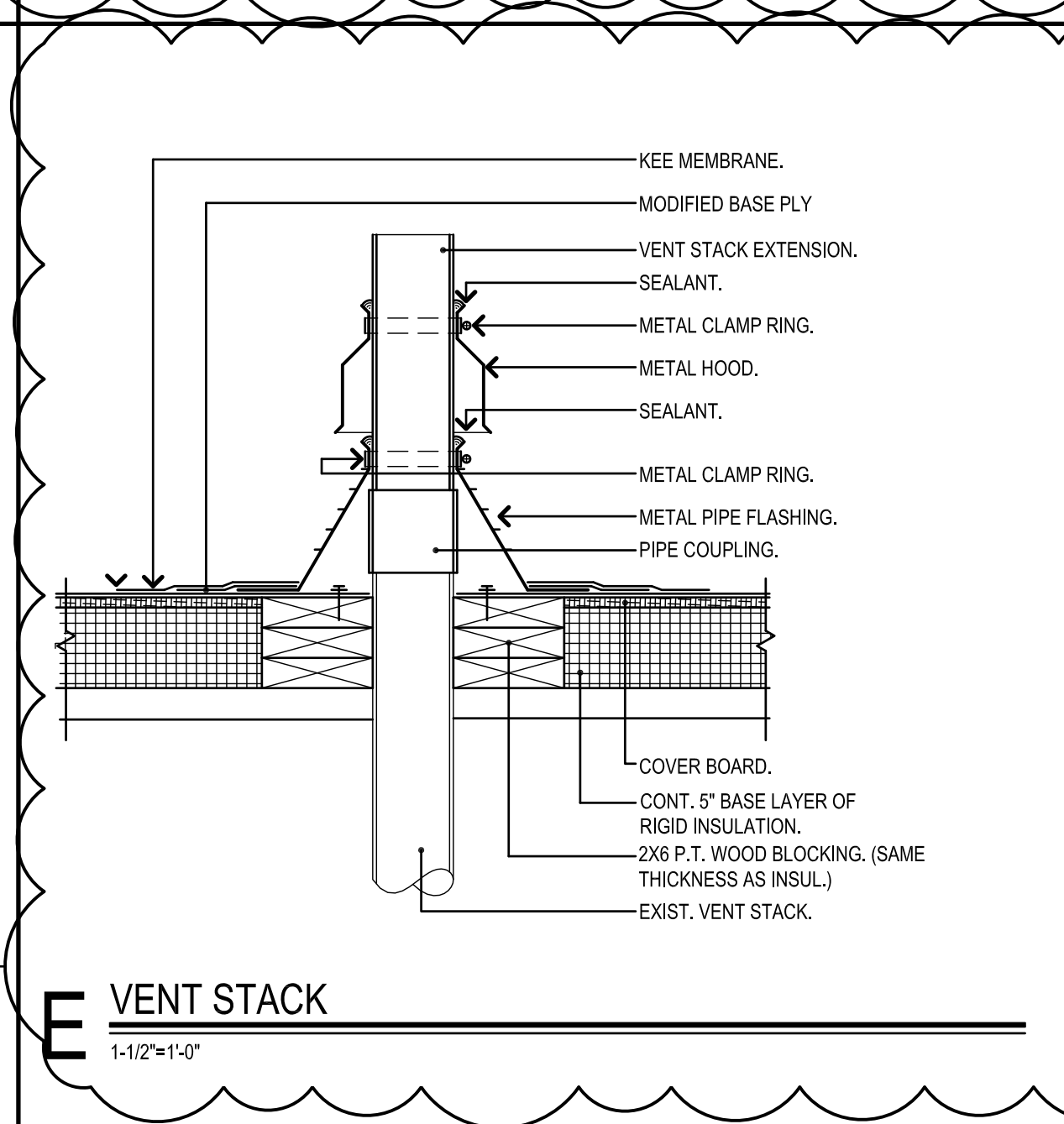
**H SKYLIGHT**  
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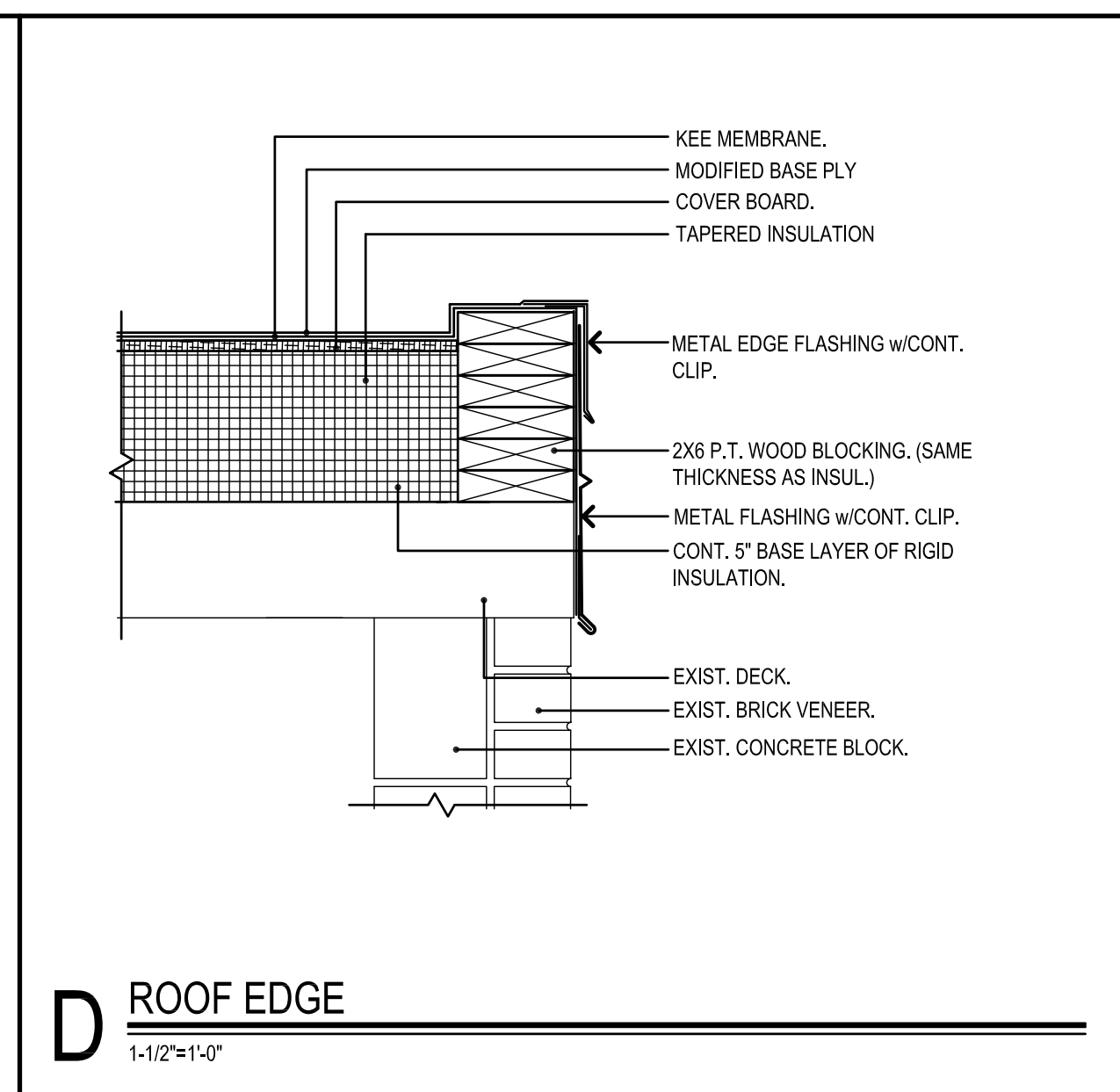
**G ROOF TOP MECHANICAL UNIT**  
1-1/2"x1'-0"



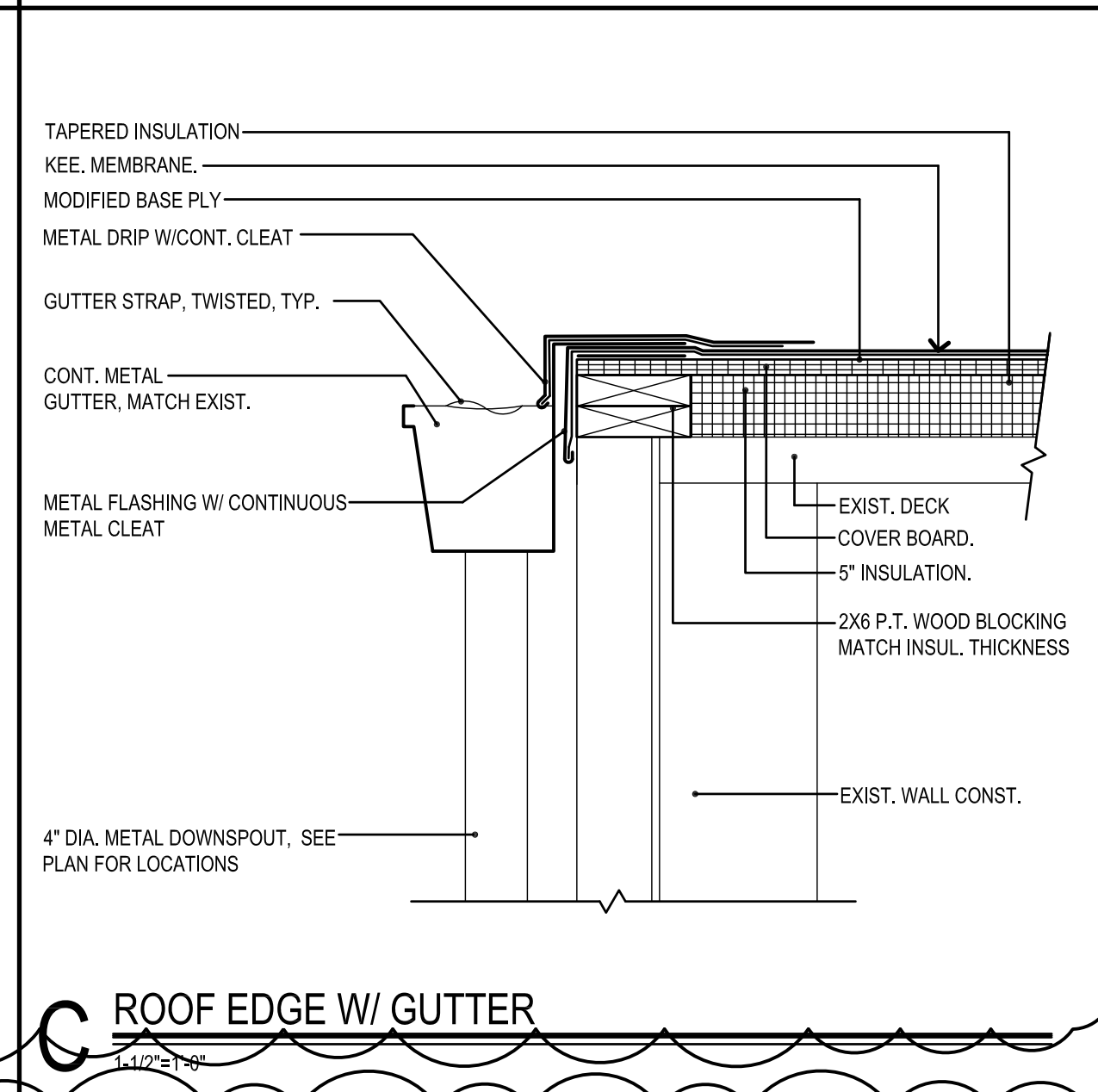
**F ROOF FAN UNIT**  
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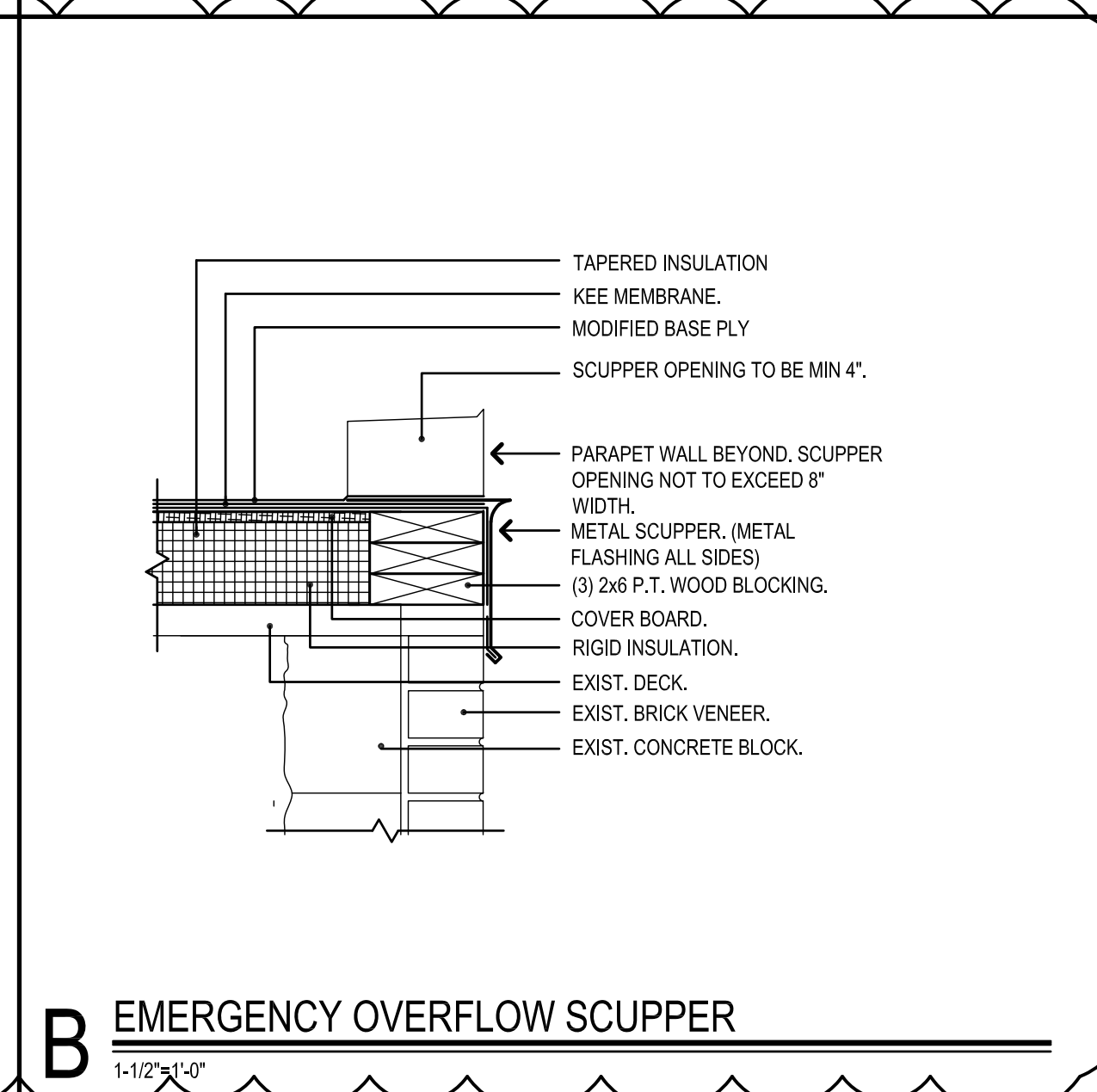
**E VENT STACK**  
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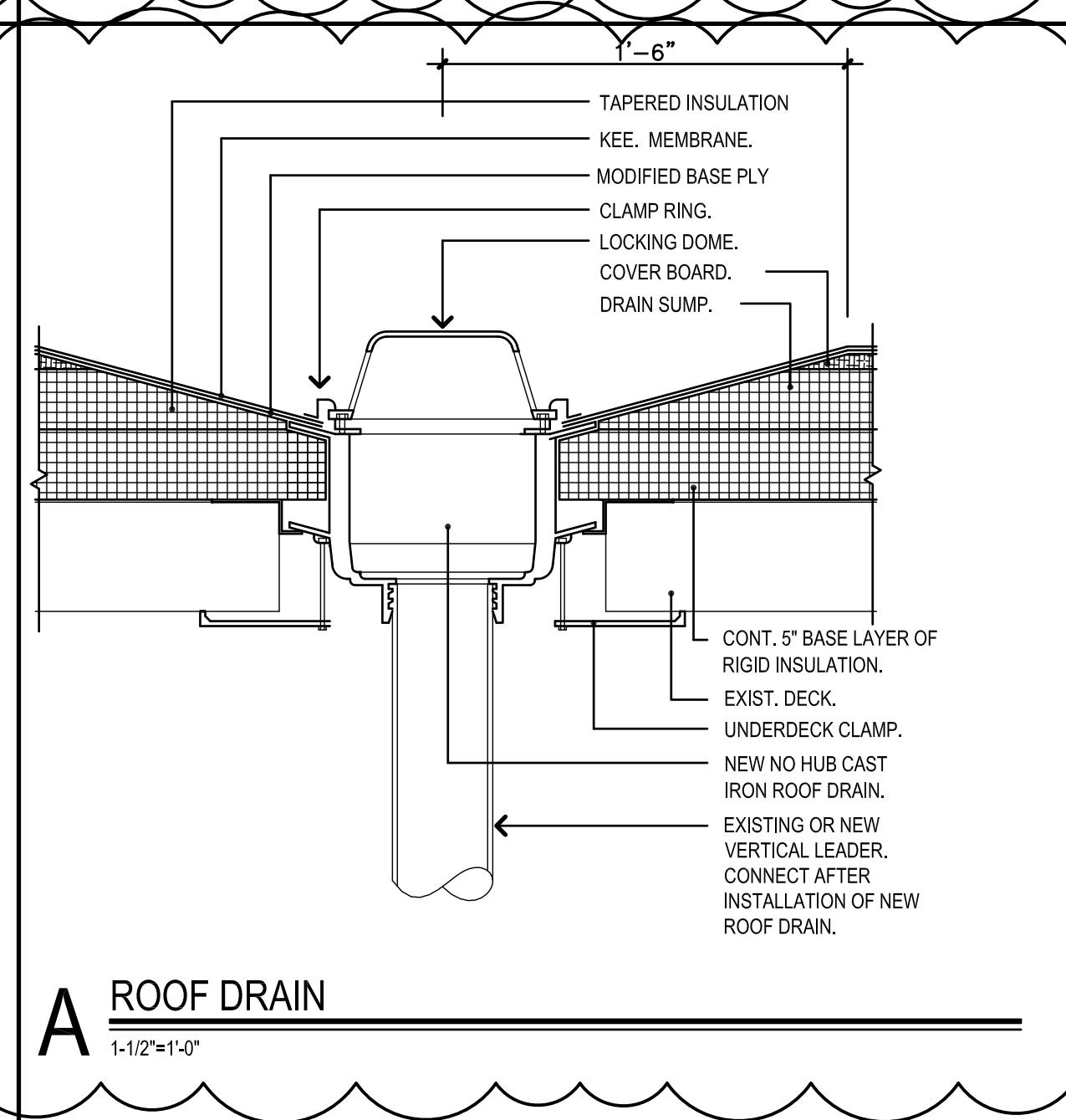
**D ROOF EDGE**  
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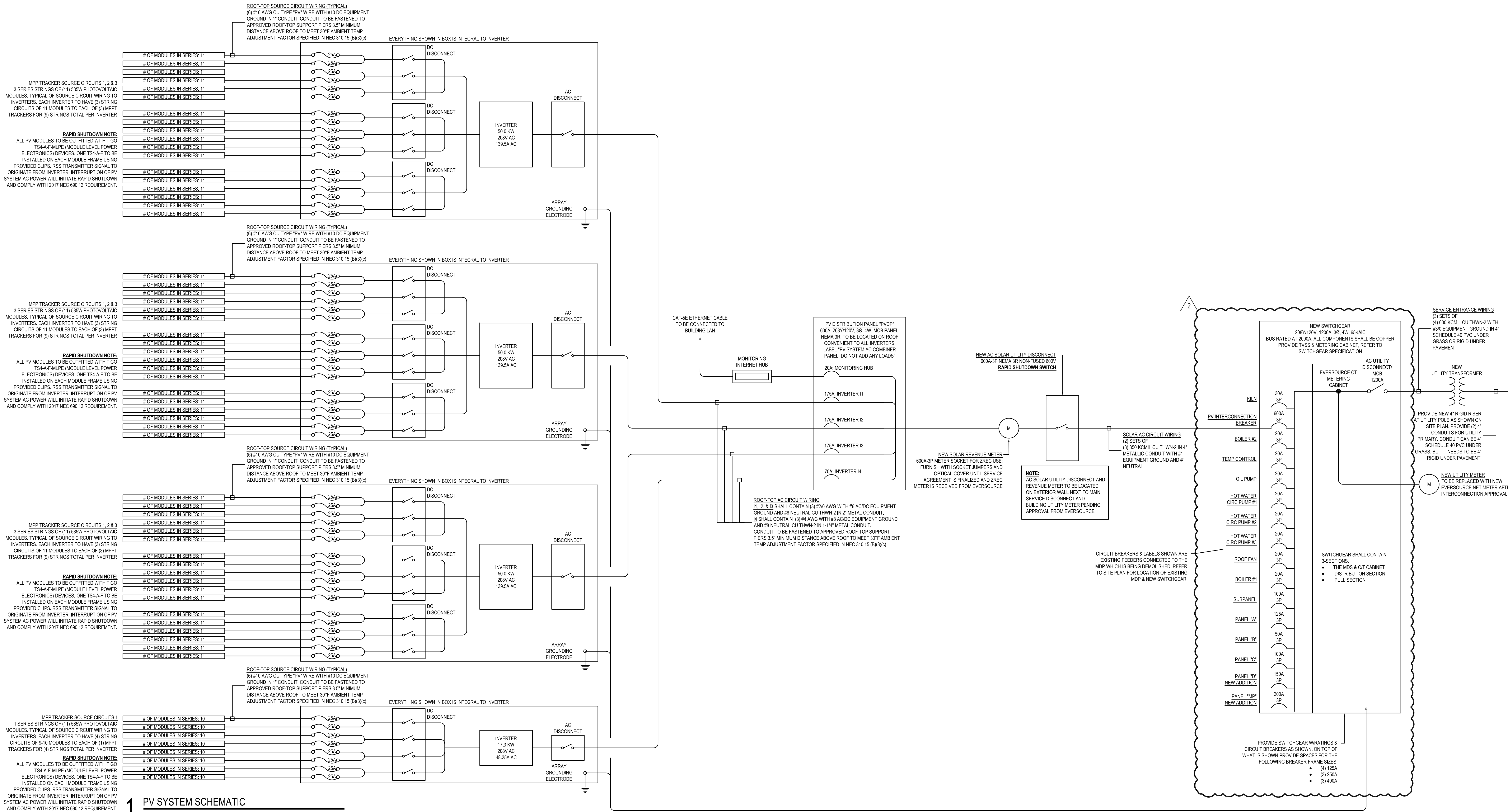
**C ROOF EDGE W/ GUTTER**  
1-1/2"x1'-0"



**B EMERGENCY OVERFLOW SCUPPER**  
1-1/2"x1'-0"



**A ROOF DRAIN**  
1-1/2"x1'-0"



**1 PV SYSTEM SCHEMATIC**  
 SCALE: NONE

**IMPORTANT NOTE:**  
 THE SWITCHGEAR SHALL BE PURCHASED AS A PART OF THIS PROJECT. ALL ASSOCIATED WORK, TRANSPORTATION, INSTALLATION, ETC. SHALL BE INCLUDED FOR A NEW WORKING ELECTRICAL SERVICE/DISTRIBUTION FOR THE BUILDING.