

NAME

LEVEL NAME

HEIGHT ABOVE PROJECT 0'-0"

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

PLAN OR DETAIL SCALE

1

VIEW NAME

1/8" = 1'-0"

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

--- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

----- EXISTING

----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

--- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
NC	NORMALLY CLOSED
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
TYP	TYPICAL

ELECTRICAL SYMBOL LIST		
SYMBOL:	TAG:	DESCRIPTION:
	PANEL ###	PANELBOARD - SURFACE MOUNT
	TR-#/XFMR-#	TRANSFORMER
	DS-#/FDS-#	DISCONNECT SWITCH FUSED DISCONNECT SWITCH
	INV-#	INVERTER. REFER TO SPECIFICATIONS

ELECTRICAL - RISER DIAGRAM NOTES:

- THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM RELEVANT TO THIS PROJECT. REFER TO ELECTRICAL DRAWINGS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SHORT CIRCUIT CURRENT RATINGS (SCCR) FOR EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
- THE BASIS OF DESIGN: EQUIPMENT AND FEEDER SIZES SHOWN ARE PRELIMINARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SIZING OF EQUIPMENT, CONDUCTORS, AND CONDUITS ACCORDING TO THE FINAL SYSTEM DESIGN.
 - FEEDER CHARACTERISTICS: ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
 - GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER.
 - CONDUCTORS SHALL BE SIZED ACCORDING TO VOLTAGE DROP AND DERATING CALCULATIONS PERFORMED BY THE CONTRACTOR.
- CIRCUIT BREAKER CHARACTERISTICS AND ACCESSORIES:
 - [CB] INDICATES CIRCUIT BREAKER
 - [FU] INDICATES FUSED SWITCH
 - [NF] INDICATES NON-FUSED SWITCH
 - [MLO] INDICATES MAIN LUG ONLY
 - [MCB] INDICATES MAIN CIRCUIT BREAKER
 - [MCCB] INDICATES MOLDED CASE CIRCUIT BREAKER
 - [LSIGM] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER (LONG TIME (WIDE) DELAY), SHORT TIME (WIDE) DELAY, INSTANTANEOUS, GROUND FAULT METER (CBM))

SOLAR PHOTOVOLTAIC (PV) SYSTEM
RISER DIAGRAM NOTES:

- ALL AC CONDUCTORS SHALL BE COPPER THHN/THWN UNLESS OTHERWISE NOTED.
- ALL DC CONDUCTORS SHALL BE COPPER UV RATED RHW-2 UNLESS OTHERWISE NOTED.
- ARRAY CONDUCTORS SHALL SIZED FOR DERATED CURRENT PER STRING.
- INVERTER SHALL PROVIDE NECESSARY GROUND FAULT PROTECTION AS REQUIRED BY CEC 690.5

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
- NOT ALL EXISTING EQUIPMENT AND CONDUITS ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND ADJUST AS NEEDED.
- ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
- WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT OR CONDUIT, CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT OR CONDUIT. IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT OR CONDUIT.

SOLAR PHOTOVOLTAIC (PV) GROUNDING
AND BONDING NOTES:

- GROUND WIRE MUST BE CONTINUOUS AND INSTALLED TO ALLOW FOR PHOTOVOLTAIC PANEL REMOVAL WITHOUT DISRUPTING CONTINUITY.
- PROVIDE GROUNDING ELECTRODE CONDUCTOR FROM PHOTOVOLTAIC ARRAY FRAME TO GROUNDING ELECTRODE SYSTEM PER ELECTRICAL CODE: CEC 690.47(A)
- ALL EXPOSED METALLIC SYSTEM COMPONENTS (MODULE FRAMES, SUPPORT STRUCTURES, ENCLOSURES, ETC) SHALL BE GROUNDED.
- INSTALL GEDNEY OR EQUIVALENT STYLE GROUNDING BUSHINGS PER CEC AT RACEWAY CONNECTIONS OF ALL METALLIC ENCLOSURES.
- AVOID DIRECT CONTACT OF COPPER OR COPPER ALLOY GROUND CONDUCTORS WITH ALUMINUM MODULE FRAME.
- PHOTOVOLTAIC SYSTEM GROUNDING CONFIGURATIONS SHALL BE EMPLOYED PER ONE OF THE ITEMS AS REQUIRED BY CEC 690.41. PHOTOVOLTAIC SYSTEMS THAT USE OTHER METHODS THAT ACCOMPLISH EQUIVALENT SYSTEM PROTECTION IN ACCORDANCE WITH CEC 250.4(A) SHALL BE LISTED AND IDENTIFIED FOR THE USE.

PV SYSTEM INSTALLATION NOTES:

- THE PHOTOVOLTAIC SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ADA, APPLICABLE CODES, LOCAL UTILITY STANDARDS, AND AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL CONFIRM ALL UTILITY REQUIREMENTS PRIOR TO BIDDING. THIS INCLUDES, BUT IS NOT LIMITED TO, UTILITY DISCONNECT, METERING, RENEWABLE ENERGY CREDITS, INTERCONNECTION STRATEGY, AND ALL COMMISSIONING PROCESSES.
- ROUTE POSITIVE AND NEGATIVE DC CONDUCTORS IN THE SAME RACEWAY. ALL WIRING OUTSIDE OF THE ARRAY'S SHALL BE INSTALLED IN RACEWAYS UNLESS NOTED OTHERWISE IN THE DRAWINGS.
- CIRCUIT ROUTING IS SHOWN SCHEMATICALLY FOR DESIGN INTENT. CONTRACTOR SHALL COORDINATE ALL EXPOSED RACEWAY AND CABLE INSTALLATIONS WITH OWNER AND FIELD CONDITIONS. SUPPORT ALL RACEWAYS AND WIRING WITH LISTED MOUNTING HARDWARE. MAXIMUM INTERVAL OF 42 INCHES (106 CM) AND WITHIN 12 INCHES (30 CM) OF BOXES AND RACEWAY TRANSITIONS.
- INSTALL PULL BOXES WHERE REQUIRED OR WHERE NEEDED TO ENSURE CABLE PULLING MAXIMUM TENSIONS ARE NOT EXCEEDED.
- INSTALL (PV) WIRING AND CABLING IN SEPARATE RACEWAYS FROM OTHER SYSTEMS. INSTALL DATA SIGNAL AND ACQUISITION CABLING IN SEPARATE RACEWAYS AS REQUIRED FOR A TURNKEY SYSTEM.
- ALL CONDUCTORS SHALL BE COPPER, UNLESS SPECIFICALLY NOTED OTHERWISE.

ELECTRICAL INSTALLATION NOTES:

- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.

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LAKE COUNTY

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KEY PLAN

AGENCY APPROVAL

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REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	RFP
Date	08/29/2025
Project #	25002276.00
Drawn	TIMPAA
Checked	KELRIC
Approved	TIMPAA

SHEET TITLE

ELECTRICAL COVERSHEET

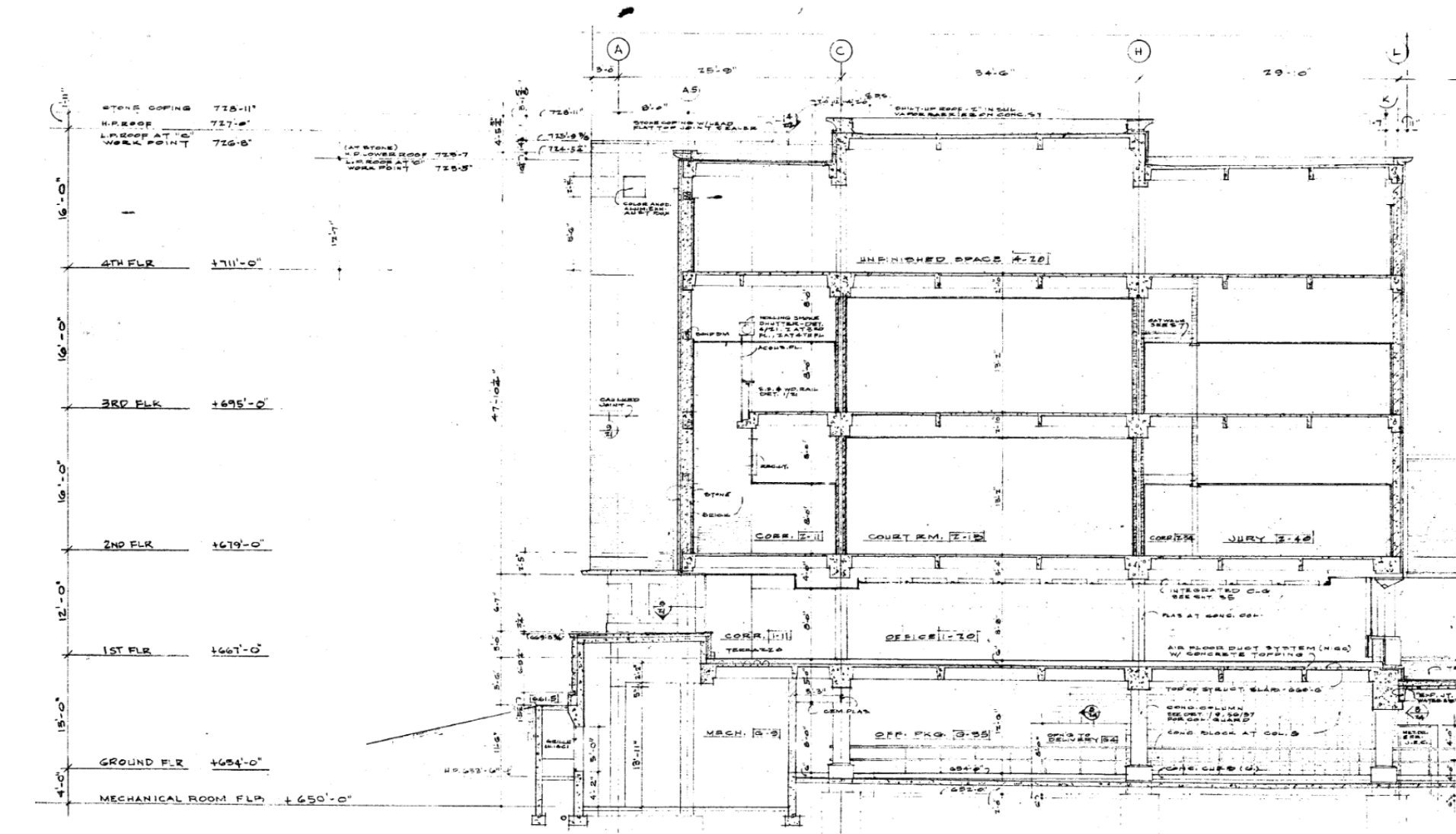
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Scale: As indicated

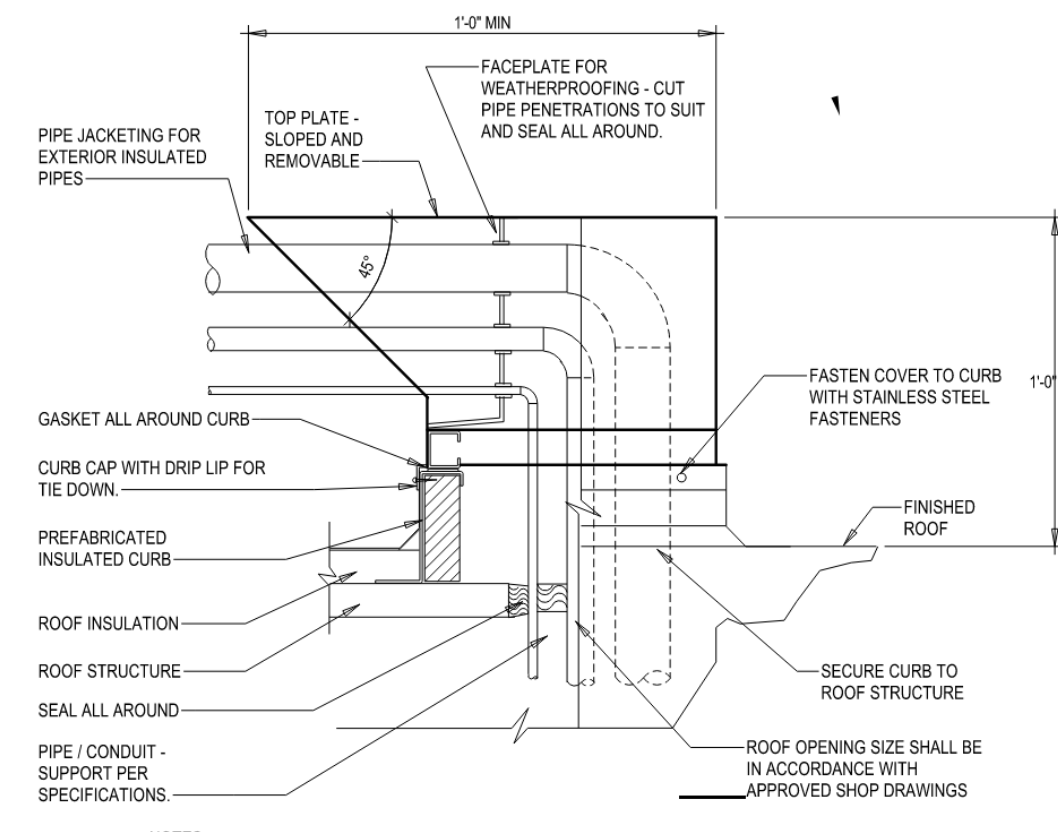
SHEET NUMBER

E000

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL COVERSHEET
E050	OVERALL PLAN - ELECTRICAL
E100	BASEMENT PLAN - POWER
E101	ROOF PLAN - POWER
E200	ELECTRICAL DIAGRAMS
GRAND TOTAL: 5	



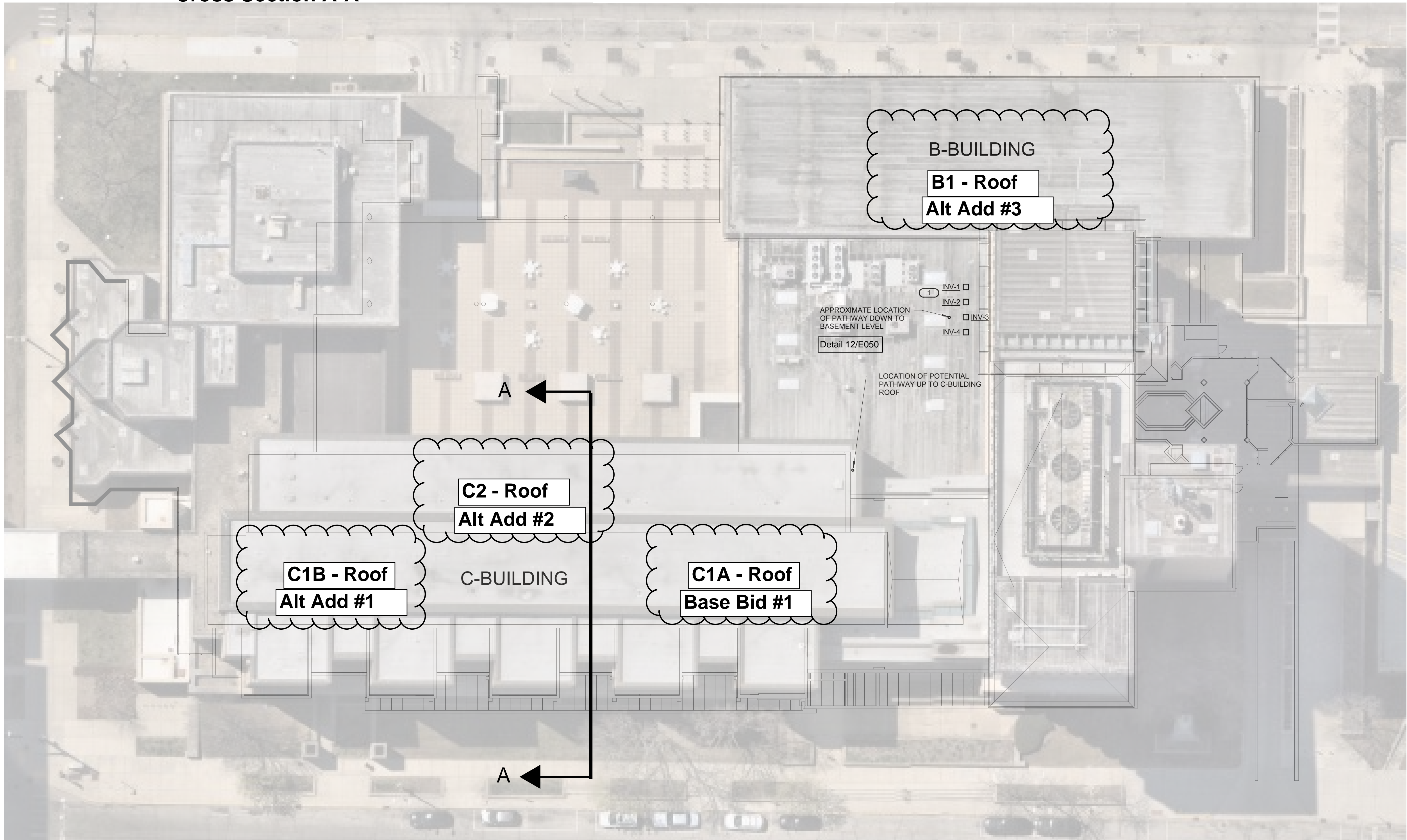
Cross Section A-A



12 PIPE ROOF PENETRATION (HOOD)

SHEET NOTES:
1. PV SYSTEM DESIGN IS PRELIMINARY. CONTRACTOR SHALL FINALIZE SYSTEM AND DESIGN ACCORDING TO SITE CONDITIONS AND OWNER REQUIREMENTS.

KEYNOTES:
1. INVERTERS LOCATED ON ROOF. ADJUST LAYOUT AND LOCATION OF INVERTERS FOR FINAL SYSTEM DESIGN. COORDINATE FINAL LOCATIONS WITH OWNER.



OVERALL PLAN - ELECTRICAL
1" = 20'-0"



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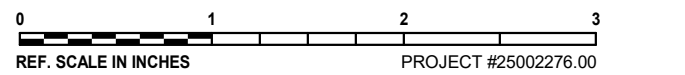
KEY PLAN

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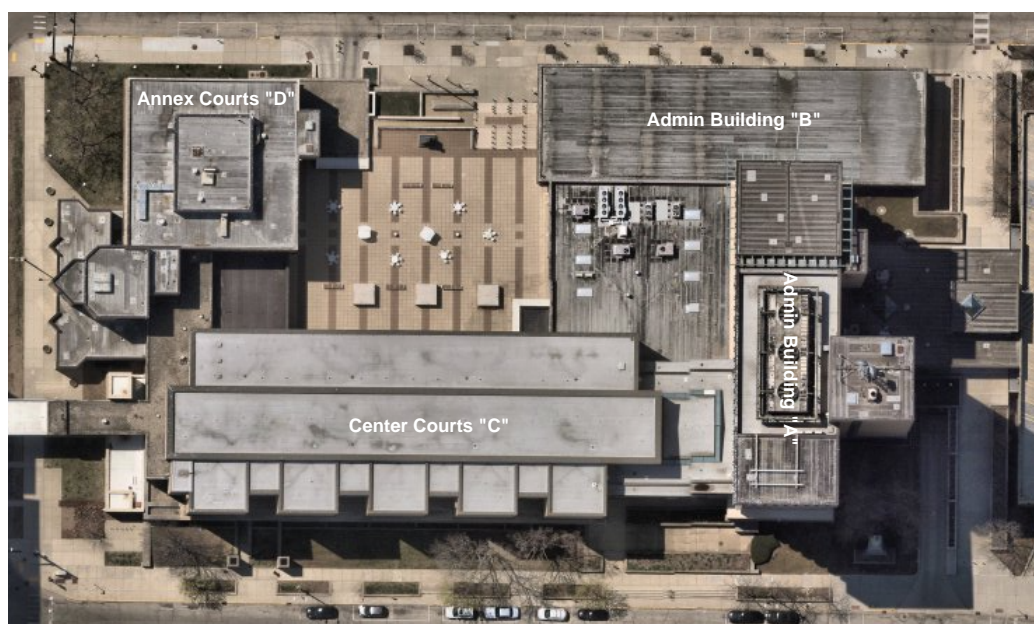
OVERALL PLAN - ELECTRICAL

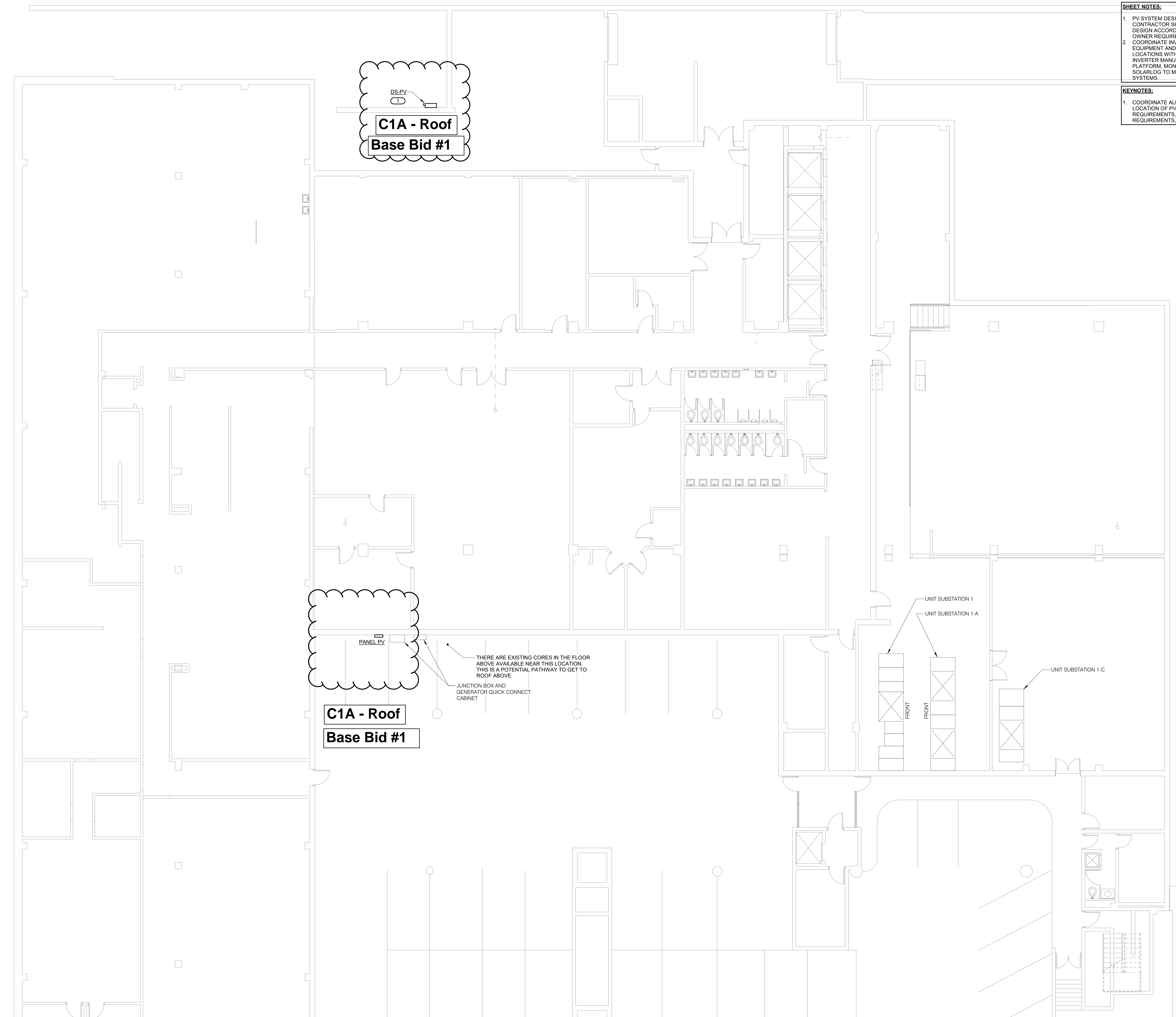
SCALE

Scale: 1" = 20'-0"

SHEET NUMBER

E050





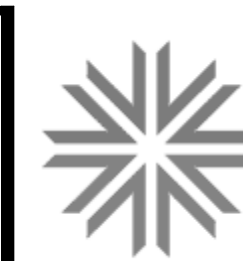
SHEET NOTES:

1. PV SYSTEM DESIGN IS PRELIMINARY. CONTRACTOR SHALL FINALIZE SYSTEM AND DESIGN ACCORDING TO SITE CONDITIONS AND OWNER REQUIREMENTS.

2. COORDINATE INVERTER MONITORING SYSTEM EQUIPMENT AND DATA CONNECTION LOCATIONS WITH OWNER. IN ADDITION TO INVERTER MANUFACTURER'S MONITORING PLATFORM, MONITORING SYSTEM SHALL BE SOLARLOG TO MATCH OWNER'S EXISTING SYSTEMS.

KEYNOTES:


1. COORDINATE ALL CONDUIT ROUTING AND THE LOCATION OF PV DISCONNECT WITH UTILITY REQUIREMENTS, CHICAGO ELECTRICAL CODE REQUIREMENTS, AND OWNER.



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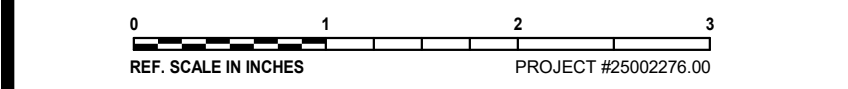
KEY PLAN

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Issue	RFP
Date	08/29/2025
Project #	25002276.00
Drawn	TIMPAA
Checked	KELRIC
Approved	TIMPAA

SHEET TITLE
BASEMENT PLAN - POWER

SCALE
1/8" = 1'-0"

SHEET NUMBER

E100

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0 1 2 3
REF. SCALE IN INCHES PROJECT #25002276.00

REVISIONS
No. Date Revision / Issue

SHEET INFORMATION
Issue RFP
Date 08/29/2025
Project # 25002276.00
Drawn TIMPAA
Checked KELRIC
Approved TIMPAA

SHEET TITLE
ROOF PLAN - POWER

SCALE

Scale: 1/8" = 1'-0"

SHEET NUMBER

E101

- SHEET NOTES:**
1. PV SYSTEM DESIGN IS PRELIMINARY. CONTRACTOR SHALL FINALIZE SYSTEM AND DESIGN ACCORDING TO SITE CONDITIONS AND OWNER REQUIREMENTS.
 2. ARRAYS SHALL BE SIZED AS LARGE AS POSSIBLE FOR ROOF AREAS IDENTIFIED.

- KEYNOTES:**
1. UNUSED ROOF ANCHORS MAY BE REMOVED OR LOCATED UNDER/BETWEEN PANELS IF THE RACKING LAYOUT PERMITS. ACTIVE WINDOW WASHING ANCHORS MUST HAVE SPACE ALLOCATED FOR SUPPORT LINES AND LIFE LINES. PANELS MAY BE LOCATED WITHIN THE SPACES INDICATED, BUT MUST NOT INTERFERE WITH THESE LINES. COORDINATE SPECIFIC REQUIREMENTS WITH THE OWNER.
 2. WINDOW CLEANING SUPPORT LINES UTILIZE UPPER EAST ROOF ANCHORS FOR WINDOWS ON THIS WEST FACE OF THE BUILDING. SOLAR ARRAY SHALL NOT INTERFERE WITH SUPPORT LINES OR LIFE LINES.
 3. MAINTAIN ACCESS TO ALL ROOF DRAINS FOR FUTURE MAINTENANCE.
 4. REMOVE AND REPLACE EXISTING ROOF HATCH. PROVIDE ADDITIONAL SAFETY CAGE AROUND TOP OF HATCH. COORDINATE EXACT REQUIREMENTS WITH OWNER.
 5. PROVIDE PERMANENT METAL LADDER FOR UPPER ROOF ACCESS. COORDINATE EXACT REQUIREMENTS WITH OWNER.

- ARRAY INFORMATION:**
- C-BUILDING ARRAY:
 - 172 PANELS
 - 101.48KWDC
 - B-BUILDING ARRAY:
 - 207 panels
 - 122.13KWDC

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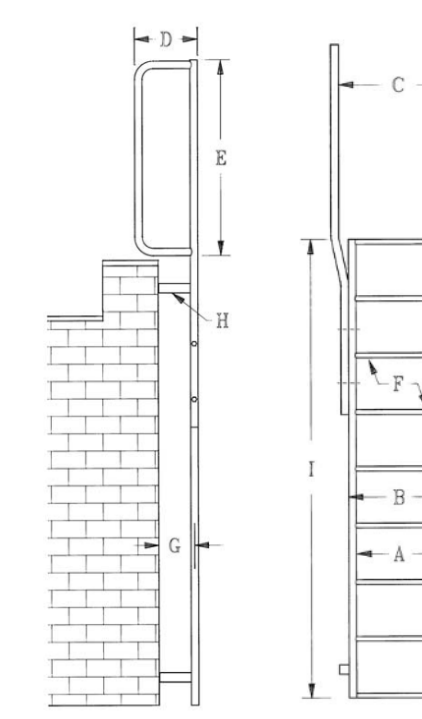
LadderUp® Safety Post

LadderUp® Safety Posts provide secure, safer ladder access through roof hatches, floor access doors and manholes. The telescoping post permanently mounts to the top rim of any roof hatch providing a positive hand hold and enabling the user to enter or exit an opening in an upright and balanced position.

MODEL#	MATERIAL/FINISH	Wt. lbs.	Ht. ft.
LU-1	Steel, yellow powder coat	24	11
LU-2	Steel, hot dip galvanized	24	11
LU-3	Steel, hot dip galvanized	24	11
LU-4	Aluminum, mill finish	14	7

C1A - Roof

Base Bid #1



ROOF LADDER

ROOF ACCESS HATCH

ROOF ACCESS HATCH

ROOF LADDER

UNUSED ROOF TIE-OFF ANCHOR

B1 - Roof

Alt Add #3

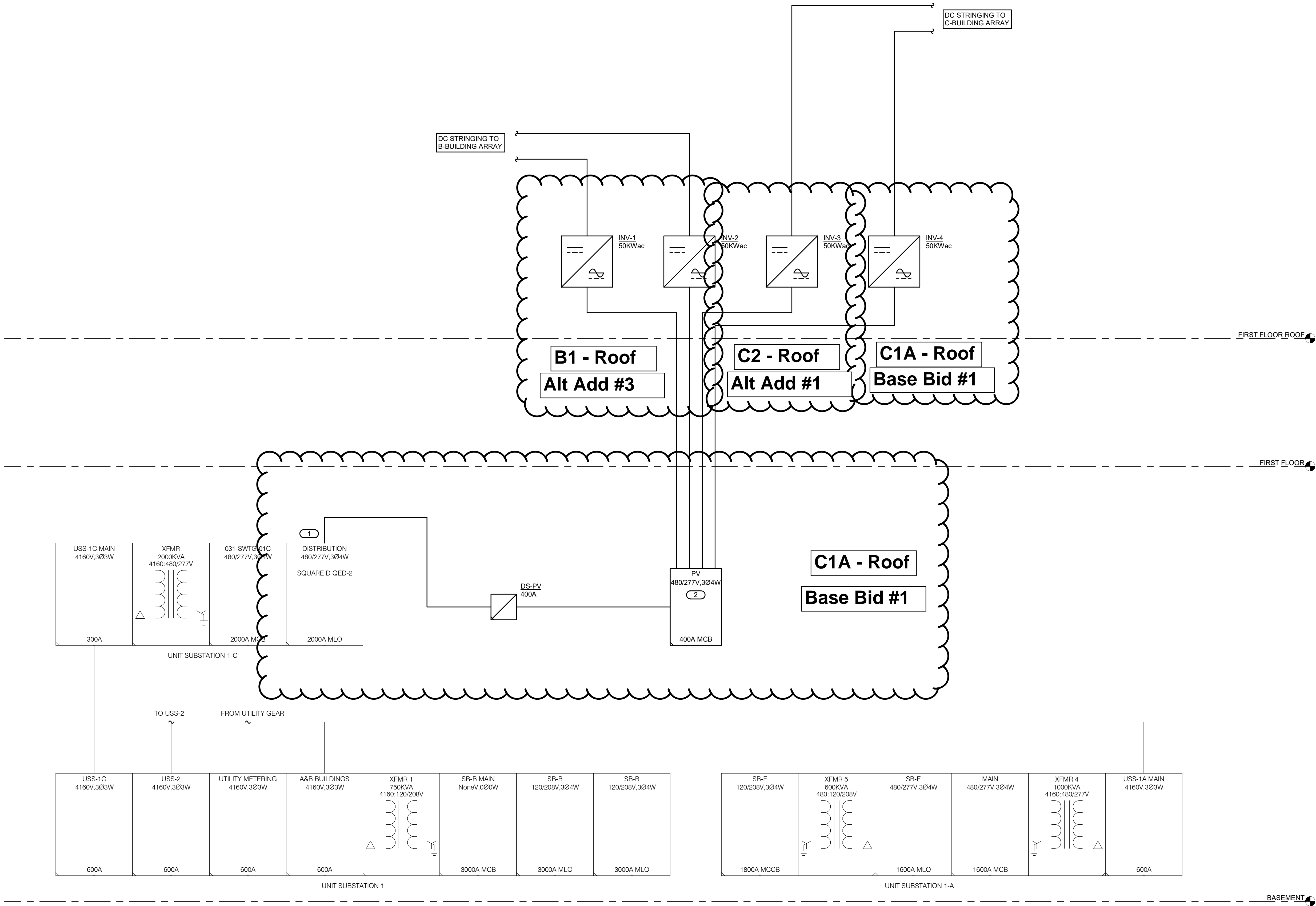
C2 - Roof

Alt Add #2

C1B - Roof

Alt Add #1

1 RISER DIAGRAM
NO SCALE



SHEET NOTES:

1. CONFIRM INTERCONNECTION STRATEGY WITH UTILITY AND RENEWABLE ENERGY CREDIT (R.E.C.) REQUIREMENTS. PROVIDE ADDITIONAL R.E.C. METER AS REQUIRED.
2. PROVIDE INVERTER MANUFACTURER MONITORING GATEWAY AND SOLARLOG MONITORING EQUIPMENT TO CONNECT TO OWNERS EXISTING MONITORING SYSTEM.
3. PV SYSTEM TO TIE INTO DISTRIBUTION PANEL 1C IN CHILLER ROOM. CONTRACTOR SHALL PROVIDE SUPPLEMENTAL POWER SUPPLY AS REQUIRED.
4. PROVIDE SUB-METERING FOR SOLAR PRODUCTION, WITH SUB-METERS TIED INTO THE COUNTY MONITORING SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. CONNECT SMART INVERTERS/METERS TO THE COUNTY NETWORK. CLOUD ACCESS IS REQUIRED FOR FACILITIES MONITORING.
6. CONTRACTOR TO COORDINATE ALL SHUTDOWNS WITH LAKE COUNTY. OUTAGES MUST BE PRE-APPROVED AND MINIMIZED.

KEYNOTES:

1. PROVIDE NEW 400A/3P BREAKER IN USS-1C SWITCHBOARD TO SERVE PV SOLAR. BREAKER SHALL BE LOCATED AT OPPOSITE END OF BUS FROM MAIN BREAKER.
2. AC COMBINER PANEL WITH BRANCH BREAKERS SIZED FOR INVERTERS

PROFESSIONAL SEAL

CONSULTANT

KEY PLAN

AGENCY APPROVAL

**PRELIMINARY
NOT FOR
CONSTRUCTION**

DISCLAIMER

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0 1 2 3
REF. SCALE IN INCHES PROJECT #25002276.00

REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	RFP
Date	08/29/2025
Project #	25002276.00
Drawn	TIMPAA
Checked	KELRIC
Approved	TIMPAA

SHEET TITLE
ELECTRICAL DIAGRAMS

SCALE
Scale: 12" = 1'-0"

SHEET NUMBER