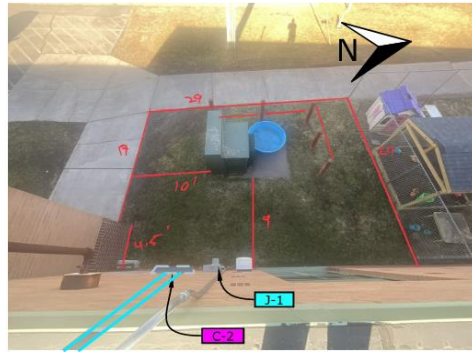


DC Equipment Layout



AC Equipment Elevations

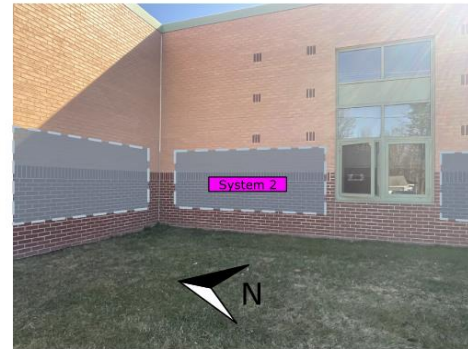
ISD 698 Floodwood Elementary Add-On (347.55 kW DC/260 kW AC)



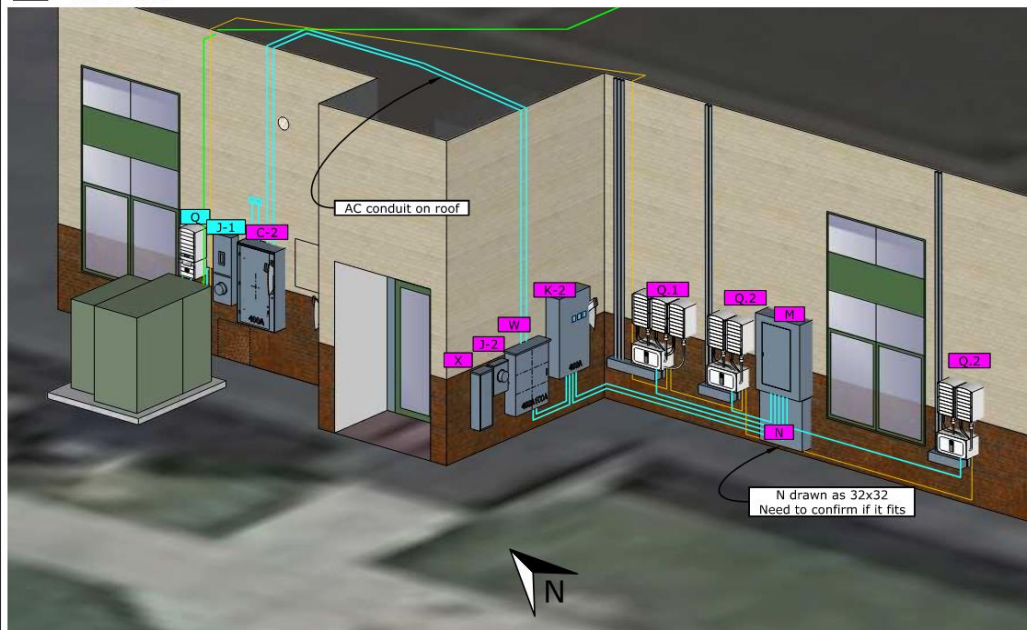
2 Equipment Detail
Not To Scale



3 Equipment Detail
Not To Scale



4 Equipment Detail
Not To Scale



1 Wall Option
Scale: 3/16" = 1'-0"

Key	
—	DC conduit
—	AC conduit
—	Communications
	Transformer
	Parapets
—	Gas lines
	J-box
	Grade
	GEC/Grounding
	See Tag ID on E.402

Existing Equipment	
	Utility Transformer - 500KVA
	Existing main service meter (utility-owned, bi-directional)
	Existing switchgear
	Existing main service disconnect
	Existing Customer-Owned Transformer
	Transfer Switch
	Generator
	CT Compartment for Main Meter
Project-Specific Equipment	
	Main PV Service AC Disconnect
	PV Production Meter (Utility-Owned)
	Utility AC Disconnect
	PV AC Combiner Panel
	Inverter
	Optimizers
	Modules
	CT/VT Cabinet

General Notes

- See G2E Electrical Best Practices document for company-standard details on wiring & concrete pads.
- See sheet E.402 for Tag IDs
- Some runs may be paralleled in multiple conduits. Not all lines may be shown on elevation sheets. Refer to Wire & Raceway on page E.402 for all conduit and conductor sizing.
- Field verify 3' setback from any gas regulator.
- See G.002 for IT plan

text update: 08/05/2024

PV Production Meter

- Standard procedure is that solar should be connected to the line (top) side.
- Per MN Power requirements, cold sequencing of meters must be possible. PV production meter "J" shall have disconnects upstream & downstream, located within 10' of each other.

- See sheet E005 of G2E Electrical Best Practices for wiring details on meters.



IDEAL ENERGIES
GREEN/ELECTRIC
8318 Pillsbury Ave South
Bloomington, MN 55420
612-928-5008
Electrical Contractor License
#EA791017

SITE INFORMATION

Project Name
ISD 698 Floodwood Elementary Add-On

Utility Customer of Record
ISD 698

Installation Address
115 W 4th Ave
Floodwood MN, 55736

Building Svc. Voltage
480/277V, 3PH / 4W
Secondary Interconnection
Utility: Minnesota Power

SYSTEM INFORMATION

Proposed System #2
Application # N/A
Meter # xxxxxxxx
Total AC Size - 260 kW AC
Total DC Size - 347.55 kW DC
VAC/PH - 480/277; 3PH

DOCUMENT STATUS

Progress Print

REVISION

ISSUE: May 13, 2026			
#	Date	Description	Initials
1a	05/13/2026	App Set Review	--
1	05/13/2026	Utility Application	--
1b	05/13/2026	Construction Review	--
2			
3			
4			
5			

0 1/2 1
If this bar does not measure 1" then drawing is not printed to full scale.

DESCRIPTION

Equipment Elevations

E.410

Sheet 16/21

