AMALGAMATED SUGAR COMPANY TWIN FALLS FACTORY THIN JUICE EVAPORATOR PROJECT VEI PROJECT # E24140



ELECTRICAL PROJECT GENERAL NOTES

- ADOPTED CODES AND STANDARDS FOR THIS PROTECT INCLUDE, BUT ARE NOT LIMITED TO, THE 2023 NATIONAL ELECTRICAL CODE (NEC).
- 2. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A
- 3. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. THEY SHALL THOROUGHLY FAMILIARIZE WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH THEY SHALL BE REQUIRED TO PERFORM THEIR WORK.
- 4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS, AND SPECIFICATIONS. THEY SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS WORK RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS
- 5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING BID TIME FOR CLARIFICATION, ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- 6. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED ACCORDINGLY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ENGINEER, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED ON REPRODUCIBLE BOND WITH BLACK INK IN NEAT, LEGIBLE, UNDERSTANDABLE, AND PROFESSIONAL MANNER PER CLIENT'S REQUEST.
- 7. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNERS WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ENGINEER INSOFAR AS TIME AND PROCEDURES ARE CONCERNED.
- 8. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER 7 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY AND WORK REQUIRED TO BE ACCOMPLISHED ON WEEKENDS SHALL BE INCLUDED IN THE CONTRACTORS BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
- 9. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
- 10. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS

AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

- 11. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION AND CONFIGURATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE ONE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT
- 12. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADE BEAMS, FLOORS, OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, NECESSARY, TO PENETRATE OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE FOR UL APPROVED SYSTEMS.
- 13. CONNECTIONS TO VIBRATING EQUIPMENT, MECHANICAL, AND PLUMBING EQUIPMENT AND SEISMIC SEPARATIONS:

LIQUID-TIGHT CONDUIT IN ALL LOCATIONS

MAXIMUM LENGTH OF FLEXIBLE CONDUIT RUNS SHALL BE 6'-0' U.O.N.

- 14. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEM. ETC., (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIALS AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.
- 15. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW SPECIAL CONDUIT ROUTING OR LENGTHS REQUIRED FOR A COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES REFER TO ARCHITECTURAL AND STRUCTURAL DIMENSIONAL DRAWINGS.

ELECTRICAL DRAWING SHEET INDEX

E24140 E.00 - ELECTRICAL COVER SHEET E24140 E.01 - ELECTRICAL MCC ELEVATION

E24140 E.10 - ELECTRICAL POWER PLAN GND LVL EL. 107'

E24140 E.20 - LIGHTING AND RECEPTACLE PLAN GND LVL EL. 107' E24140 E.21 - LIGHTING AND RECEPTACLE PLAN EL. 127'-0

E24140 E.22 - LIGHTING AND RECEPTACLE ROOF PLAN EL. 158'-2

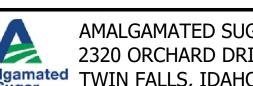
E24140 E.23 - LIGHTING AND RECEPTACLE PLAN MEZZ EL. 167' - 177' E24140 E.24 - LIGHTING LUMINAIRE SCHEDULE & DETAILS

E24140 E.25 - ELECTRICAL PANEL SCHEDULES E24140 E.30 - ELECTRICAL GROUNDING GRID PLAN

					PRELIMINARY
					NOT FOR
					CONSTRUCTION
В	2025.06.23	JM	ISSUE FOR BID	-	23 JUNE 2025
Α	2025.06.18	JM	ISSUE FOR REVIEW	-	
No.	Date	Ву	Revision	Ad. No.	



AMALGAMATED SUGAR COMPANY THIN JUICE EVAPORATOR PROJECT **ELECTRICAL COVER SHEET**



AMALGAMATED SUGAR COMPANY 2320 ORCHARD DRIVE EAST Amalgamated TWIN FALLS, IDAHO 83301

Date:	2025.05.02	Dwg Size:
Chkd By:	JM	24x36
Dsgn By:	BP	
Project:	E24140	Revision:
Dwg:	E.00	<u>/B\</u>

	1	2	3	4	5	6
A	1600A MLUG	XXXX 40AT FCB 125AF XXXX	XXXX	XXXX 100AT FCB 125AF XXXX	ETHERNET POWER SUPPLY	CORNER CORNER SECTION SECTION
B C		FCB 125AF METERING UNIT	200AT	FCB 100AT XXXX	15AT ENPS 125AF 20 PORT ETHERNET	
D			FCB 250AF	100AT FCB 125AF XXXX 100AT	STRATIX 5200	
 E				FCB 125AF XXXX M-XXXX	XXXX 100AT FCB 125AF	
F —		XXXX 40AT FCB 125AF	FCB 250AF	10 HP SIZE 1 MCP FVNR 30A	XXXX 100AT FCB 125AF XXXX	
G —		XXXX 40AT FCB 125AF XXXX	100AT FCB 125AF	M-XXXX	M-XXXX 20 HP	
H — J		40AT FCB 125AF XXXX 40AT	FCB 125AF XXXX	SIZE 2 MCP FVNR 50A	SIZE 2 MCP FVNR 50A	
— к		FCB 125AF XXXX M—XXXX				
 L						
M		50 HP SIZE 3 MCP FVNR 100A	600AT FCB 800AF	600AT FCB 800AF	600AT FCB 800AF	

MCC-EVAP - EAST ELEVATION

Scale: 1" = 1'

			7			8		9	
	A	XX M-X	XX		X	XXX 100AT 125AF	SF	PACE	
	B	25 HP SIZE 2 FVNR	MCP 50A			100AT 125AF			
	C	FCB	100AT 125AF			XXX	SF	PACE	
	D	FCB	100AT 125AF		5 HP SIZE 1 FVNR	MCP 15A			
	Ε	XX	(XX		X	(XX	SF	PACE	
	F								
0 "	G							XXX XXX	
	_								
	Н	FCB	300AT 400AF		FCB	300AT 400AF	5 HP SIZE 1 FVNR	MCP 15A	
			(XX	-		(XX	>	(XXX	
	K								
	 L								
	М	FCB	600AT 800AF		FCB	400AT 400AF	FCB	300AT 400AF	
1									
)"———				

MCC-EVAP - SOUTH ELEVATION

Scale: Scale: 1" = 1'

					PRELIMINARY
					NOT FOR
					CONSTRUCTION
В	2025.06.23	JM	ISSUE FOR BID		23 JUNE 2025
Α	2025.06.18	JM	ISSUED FOR REVIEW		
No	Date	RV	Revision	Ad No.	

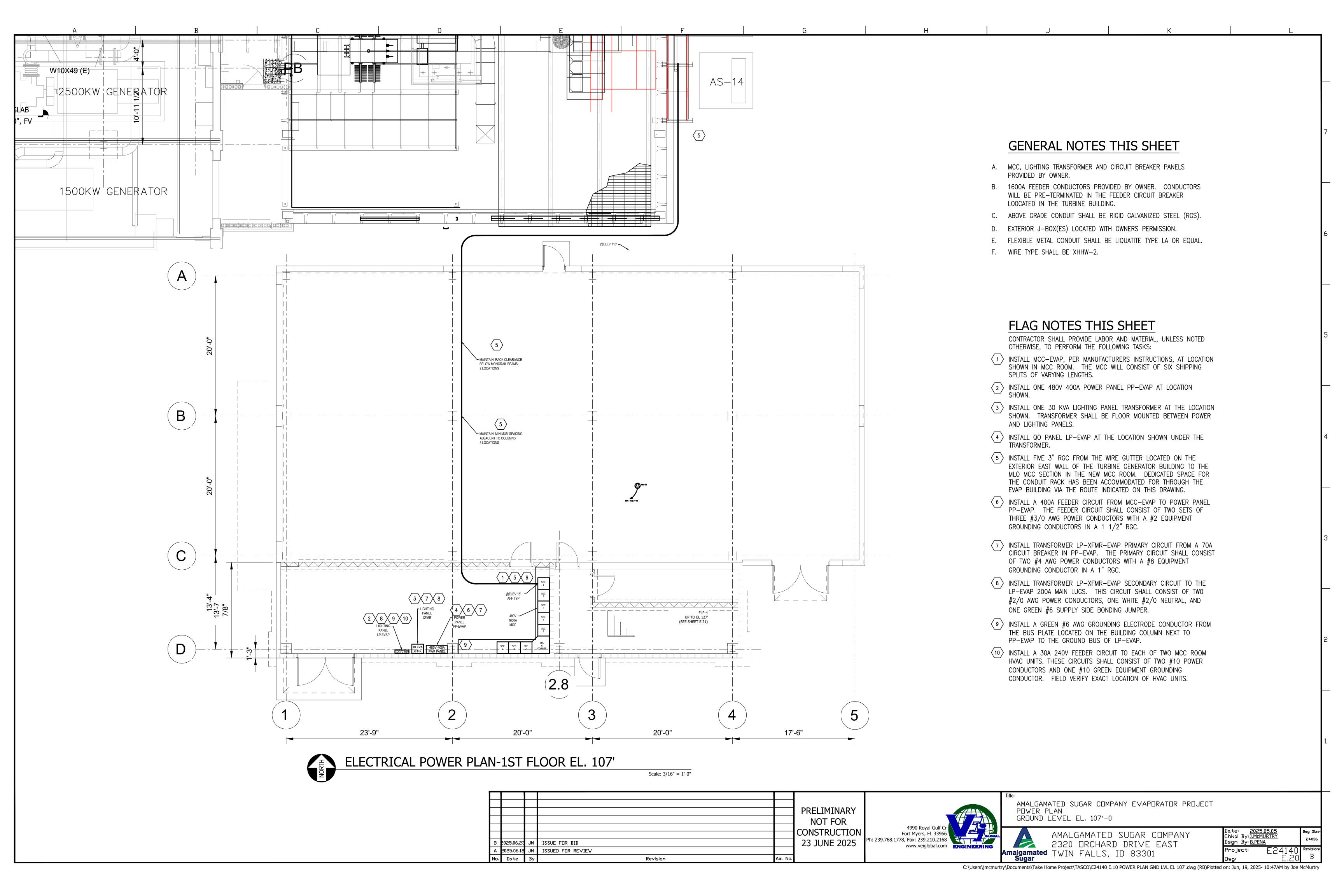


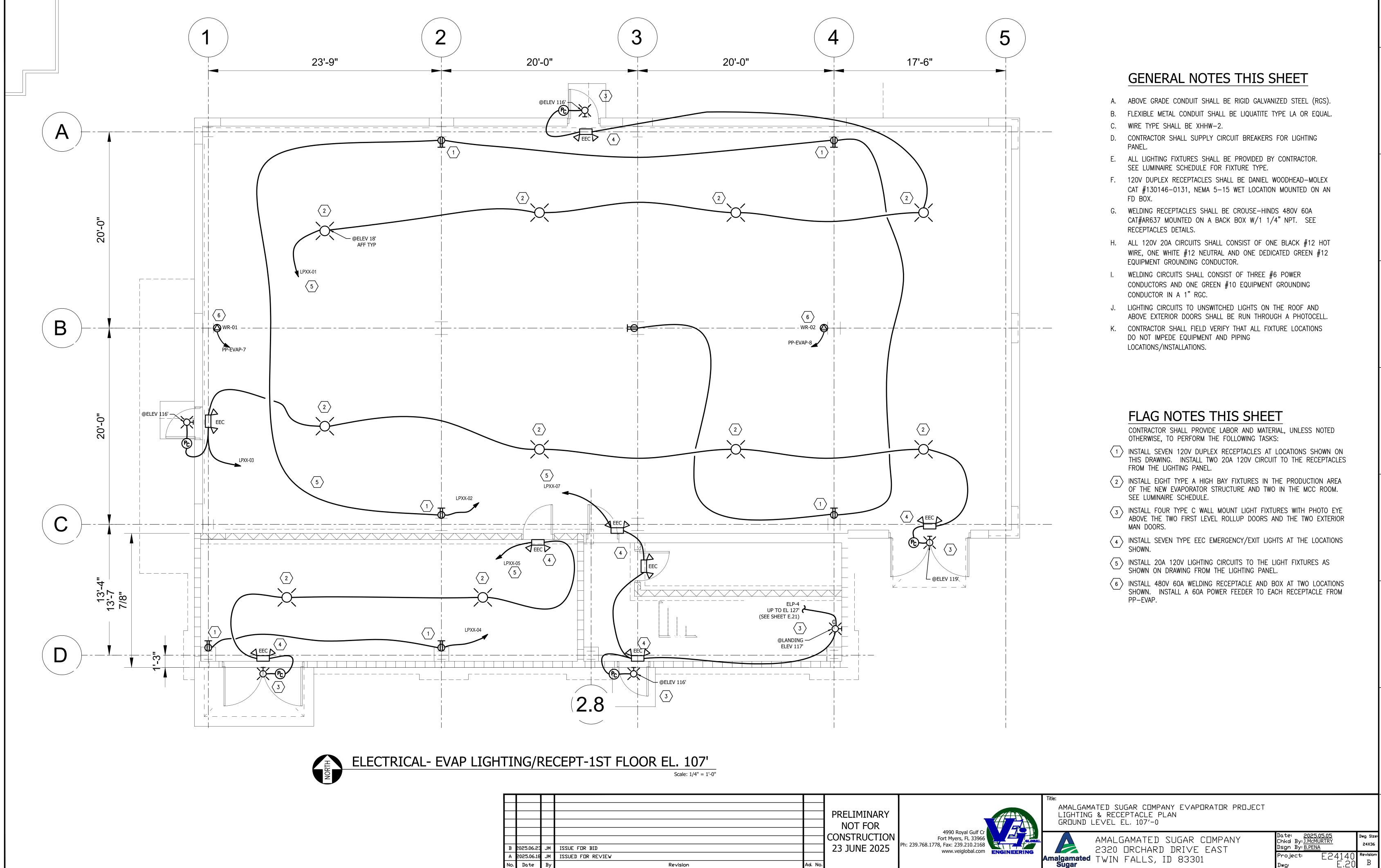
AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT MCC EVAP ELEVATION

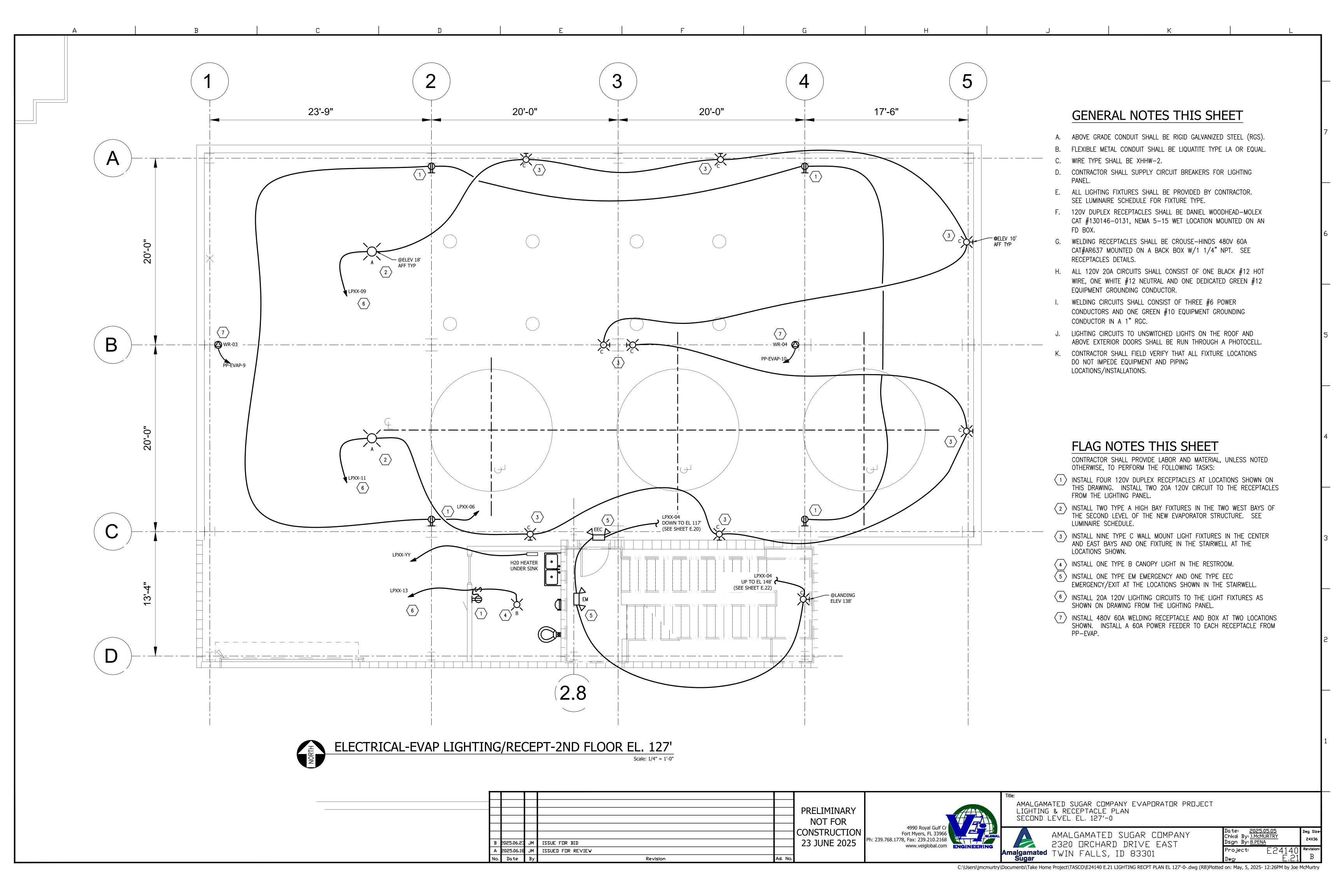
Uhite atin	Amalgamated Sugar Pure. Sweet. Grower-Duned.	
hite atin		

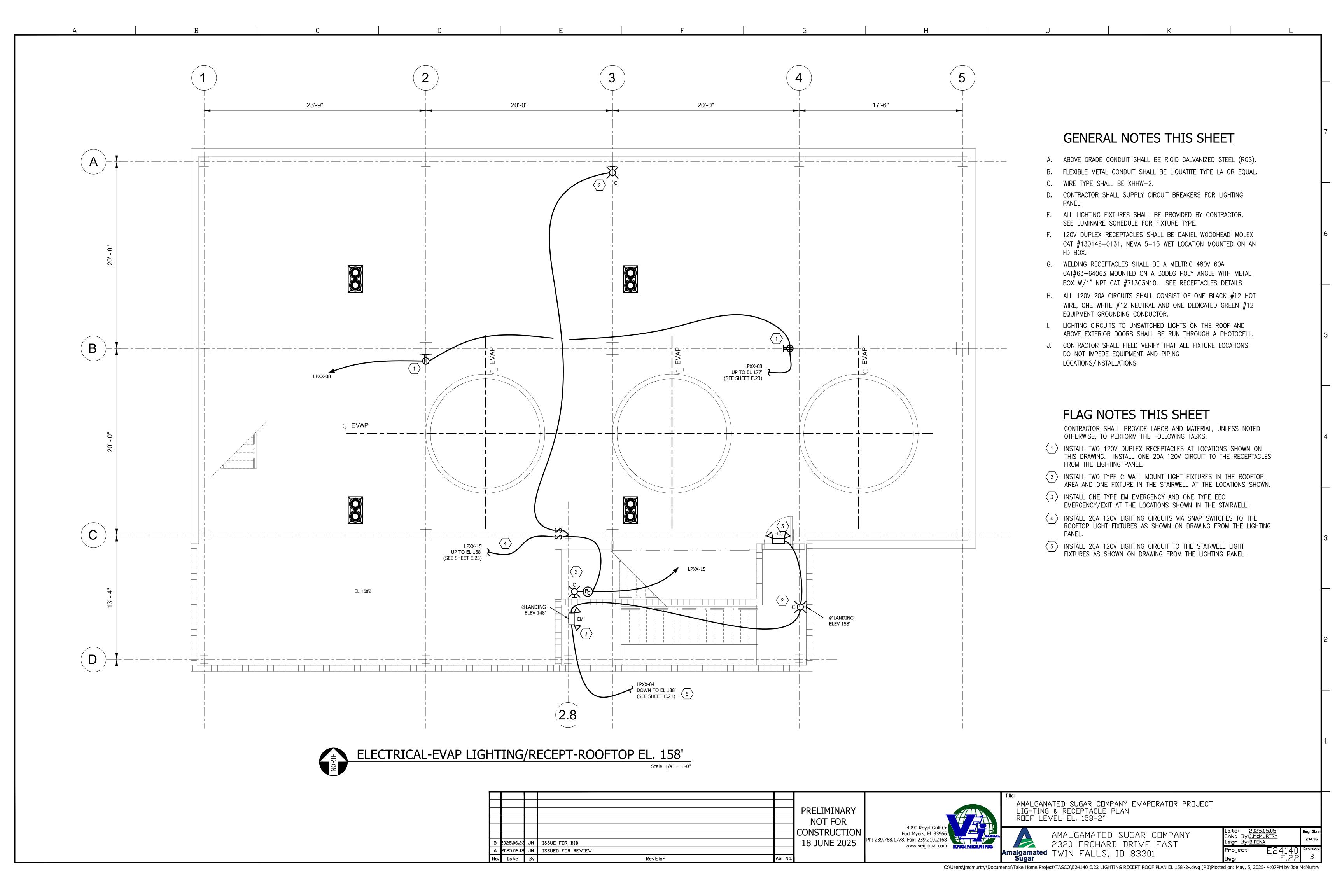
THE AMALGAMATED SUGAR COMPANY 1951 S SATURN WAY, SUITE 100 BOISE, IDAHO 83709

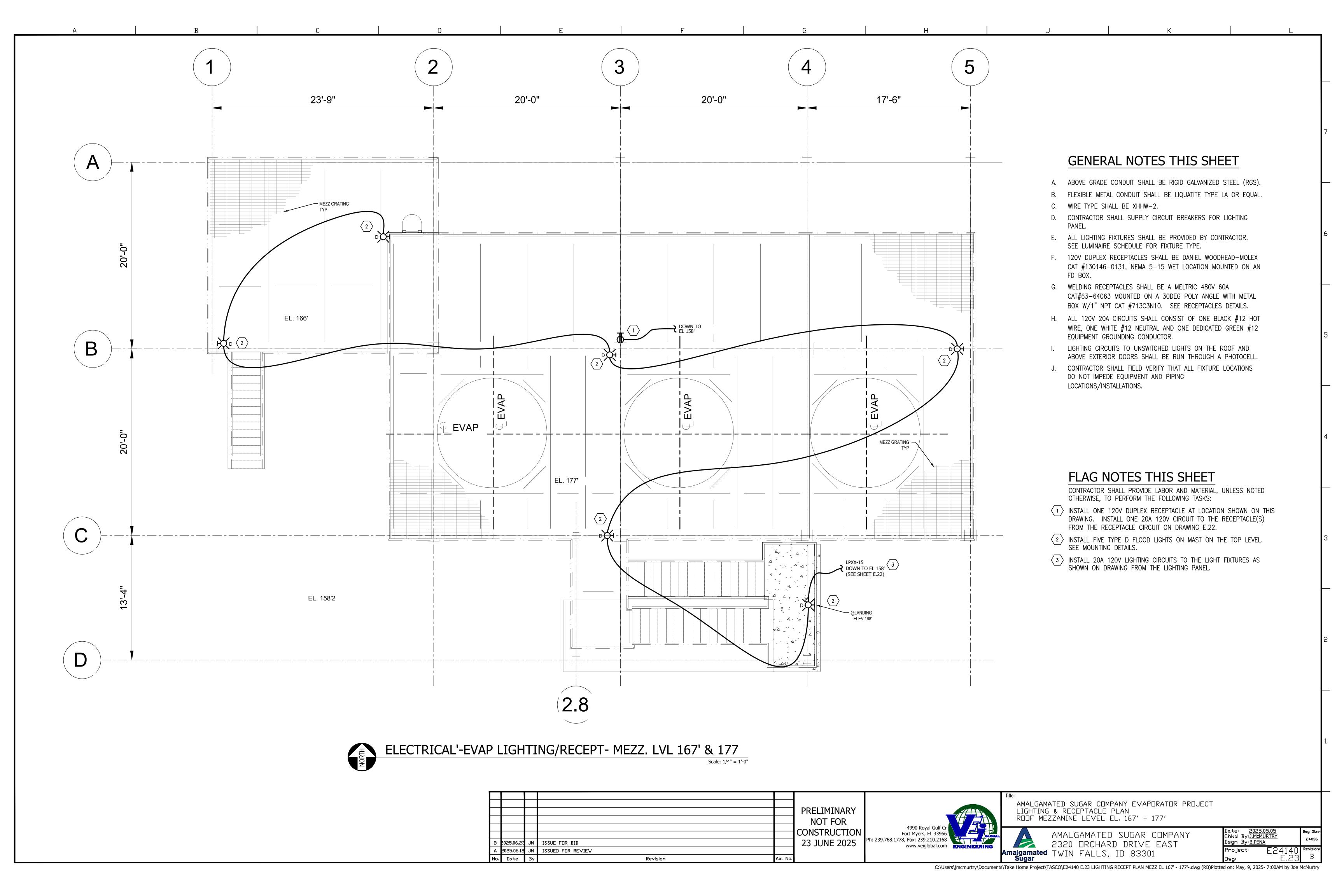
PANY	Date: Chkd By: Dsgn By:	<u>2025.05.05</u> J.McMURTRY B.PENA	Dwg Size: 24X36
	Project:	E24140	Revision:
	Dwa:	E.01	В



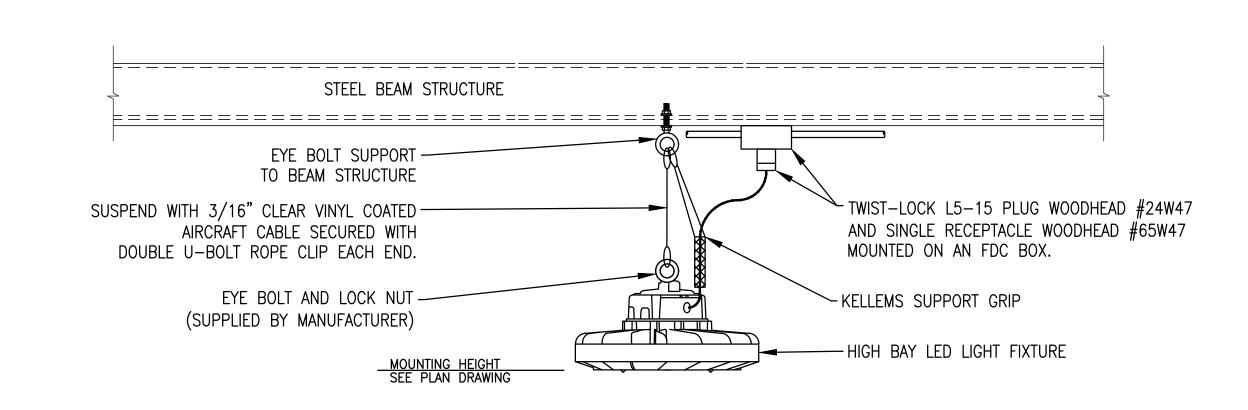




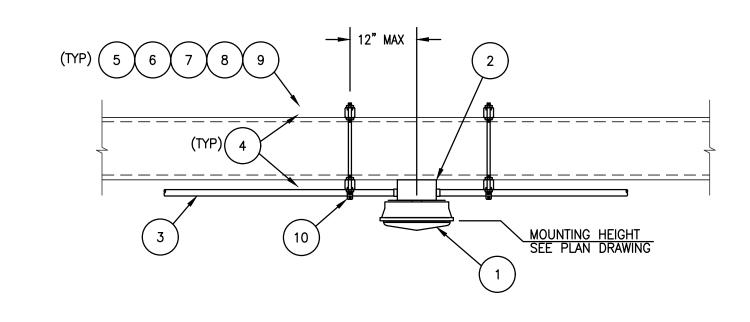




	LUMINAIRE FIXTURE SCHEDULE									
TYPE	QUANTITY	MANUFACTURER	CATALOG NUMBER	FIXTURE DESCRIPTION	MOUNTING	LUMENS	WATTS	VOLTS	LOCATION	REMARKS
А	12	KEYSTONE LIGHTING	KTRHLED200PS-14C8CSB-VDIM-P	HIGH BAY LED WET LOCATION	RING BOLT	24,150	150	120/277V	SEE PLANS	
В	1	ATLAS LIGHTING	CPMS3-12L	LOW PROFILE CANOPY	SURFACE	12,000	60	120/277V		
С	17	ATLAS LIGHTING	WPM-64LED	MEDIUM WALL LIGHT	SURFACE	7237	61	120/208V	SEE PLANS	
D	6	ATLAS LIGHTING	SLPS-9L-T2-5K-B	LED FLOOD LIGHT	KNUCKLE/TRUNION/ SLIPFITTER	8859	63	120/208V	SEE PLANS	USE MOUNTING FOR SPECIFIC APPLICATION
EEC	9	ATLAS LIGHTING	EECPRWR	LED EXIT/EMERGENCY COMBO - RED	SURFACE		5	120/277V	SEE PLANS	
EM	2	ATLAS LIGHTING	EMO2A	LED OVAL 2 HEADED EMERGENCY	SURSFACE	43.9	5	120/277V	SEE PLANS	



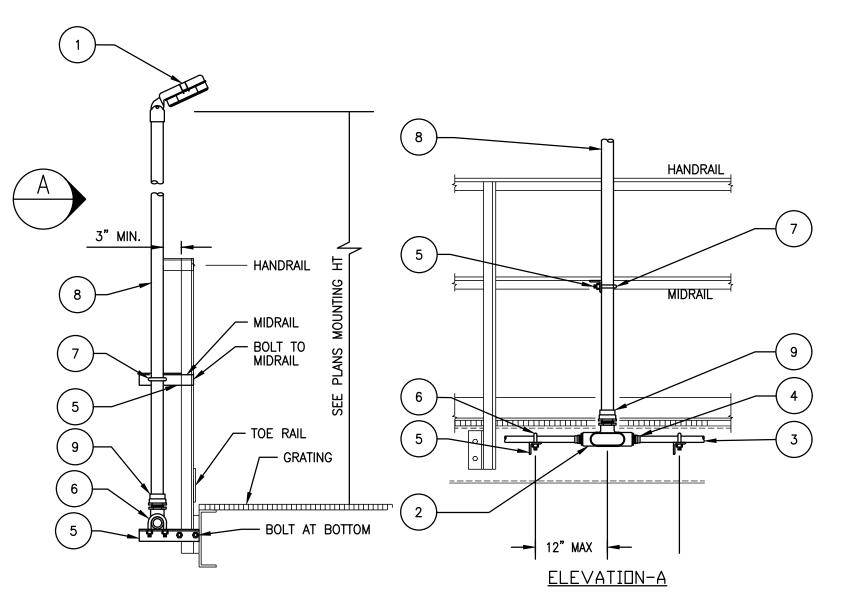




ITEM	QTY.	DESCRIPTION
1	1	LIGHT FIXTURE TYPE "LED", CANOPY MOUNT, (SEE FIXTURE SCHEDULE)
2	1	JUNCTION BOX
3		LIGHTING CONDUIT
4	4	1 5/8" CHANNEL, HOT DIPPED GALV., UNISTRUT #P1000-HG OR EQUAL (LENGTH AS REQUIRED)
5	4	1/2"-13 THREADED ROD, 316 STAINLESS STEEL (LENGTH AS REQUIRED)
6	8	FLAT PLATE FITTING, 1-5/8"x1-5/8", 1/2" BOLT HOLE, 316 SS, UNISTRUT #P1064-SS OR EQUAL
7	16	1/2" -13 HEX NUT, 316 STAINLESS STEEL
8	16	1/2" LOCKWASHER, 316 STAINLESS STEEL
9	16	1/2" FLAT WASHER, 316 STAINLESS STEEL
10	2	3/4" CONDUIT CLAMP, UNISTRUT #P1112HG OR EQUAL



Scale: NTS



ITEM	QTY.	DESCRIPTION			
1	1	NEW LIGHT FIXTURE SEE LUMINAIRE SCHEDULE			
2	1	1 1/2" TEE FITTING, FORM 7, CROUSE-HINDS #T57 SA W/ COVER #570F SA & GASKET #GASK575 OR EQUAL			
3	AS REQ'D	3/4" CONDUIT, RIGID ALL			
4	2	1 1/2" x 3/4" REDUCER, CROUSE-HINDS #RE52 SA OR EQUAL			
5	3	2" x 2" x 1/4" ANGLE, GALVANIZED (LENGTH AS REQUIRED)			
6	2	3/4" RIGHT ANGLE CONDUIT CLAMP, CROUSE-HINDS #RAC75HD OR EQUAL			
7	1	1 1/2" U-BOLT SET, CROUSE-HINDS #UBM150HD			
8	10'	1 1/2" CONDUIT, RIGID ALL			
9	1	1 1/2" UNION, CROUSE-HINDS #UNY505 OR EQUAL			

FLOOD/RAIL LIGHT FIXTURE DETAIL

Scale: NTS

				PRELIMINARY	
				NOT FOR	
				CONSTRUCTION	
025.06.23	JM	ISSUE FOR BID		23 JUNE 2025	Ph:
025.06.18	JM	ISSUED FOR REVIEW			
Date	Вv	Revision	Ad. No.		1



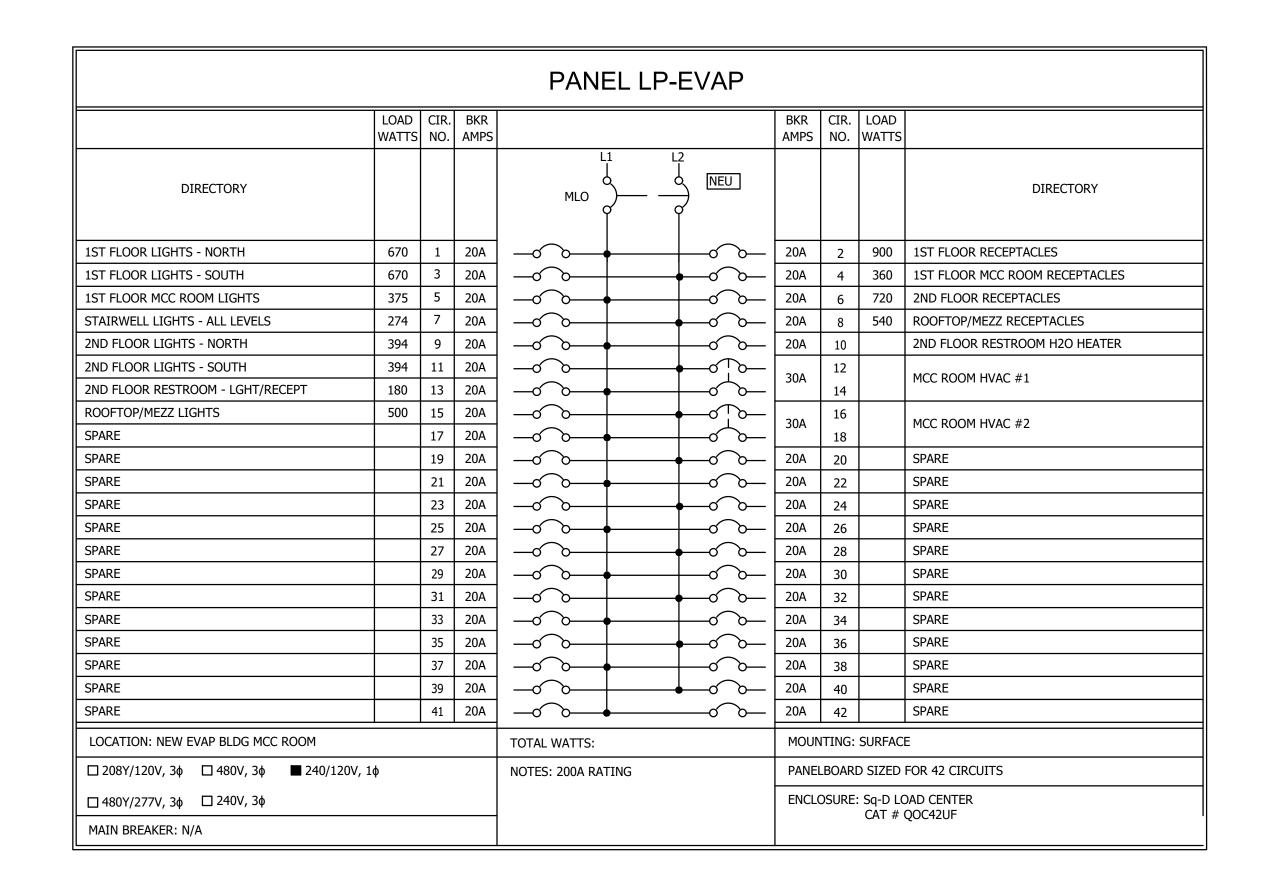
AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT LIGHTING DETAILS & LUMINAIRE SCHEDULE

	AMAL	JAMATE:
	2320	DRCHAF
algamated Sugar	TWIN	FALLS,

ED SUGAR COMPANY ARD DRIVE EAST S, ID 83301

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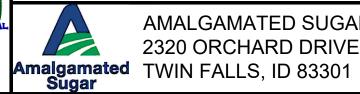
PANEL PP-EVAP									
	LOAD WATTS	CIR. NO.	BKR AMPS		BKR AMPS	CIR. NO.	LOAD WATTS		
DIRECTORY				MCB NEU NEU				DIRECTORY	
VENTILATION FAN POWER - 1ST FLOOR		1	20A		20A	2		VENTILATION FAN POWER - 2ND FLOOR	
SPARE		3	20A		20A	4		SPARE	
SPARE		5	30A		40A	6		SPARE	
WELDING RECEPTACLE #1		7	60A		60A	8		WELDING RECEPTACLE #2	
WELDING RECEPTACLE #3		9	60A		60A	10		WELDING RECEPTACLE #4	
LIGHTING PANEL LP-EVAP TRANSFORMER		11	70A		70A	12		SPARE	
SPARE		13	100A			14		SPACE	
LOCATION: NEW EVAP BLDG MCC ROOM				TOTAL WATTS: MOUNTING: SURFACE					
□ 208Y/120V, 3¢ ■ 480V, 3¢			NOTES: 22.000 AIC	PANELBOARD SIZED FOR 42 CIRCUITS					
☐ 480Y/277V, 3¢ ☐ 240V, 3¢ MAIN BREAKER: 44000A					ENCL	ENCLOSURE: SIEMANS TYPE P1 CAT #P1F42ML400CTST			



PRELIMINARY NOT FOR CONSTRUCTION 23 JUNE 2025 JM ISSUE FOR BID B 2025.06.23 JM ISSUED FOR REVIEW 2025.06.18 Revision



AMALGAMATED SUGAR COMPANY EVAPORATOR PROJECT POWER PANEL PP-EVAP - LIGHTING PANEL LP-EVAP PANEL SCHEDULES



AMALGAMATED SUGAR COMPANY 2320 ORCHARD DRIVE EAST

Date:	2025.05.05	Dwg Size:
Chkd By:	J.McMURTRY	24X36
Dsgn By:	<u>B.PENA</u>	247/00
Project:	E24140	Revision:
Dwa:	F 25	В

