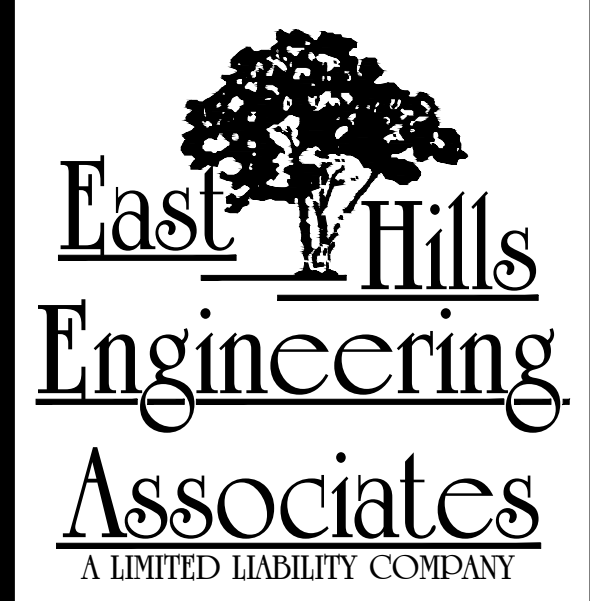




PARTIAL MAIN WIRING DIAGRAM & SCHEDULES

BUILDING REVISIONS
 FOR THE
ALLEGANY COUNTY
LAVALLE BUILDING
 37 LANE AVENUE, LAVALLE, MARYLAND, 21502



BRETT N. YONISH, P.E.
CHRISTOPHER C. ALBRIGHT, P.E.

541 MAIN STREET
WINDBER, PA 15963
(814) 467-6877

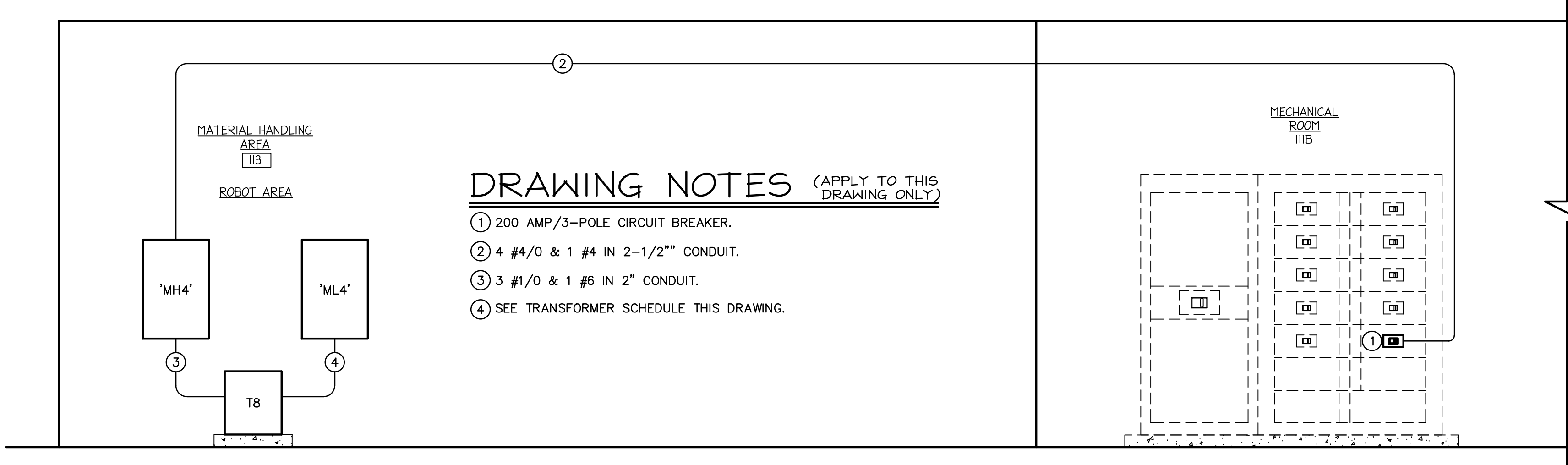
REVISIONS		
MARK	BY	DATE

DATE: 12-06-2023 DRAWING NO. E-3

DRAWN BY: J.L.L.
CHECKED BY: B.N.Y.

PROJECT NO. EHEA 23023

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 50053, EXPIRATION DATE: 10-13-2024
 BRETT NICHOLAS YONISH DATE 12-06-2023

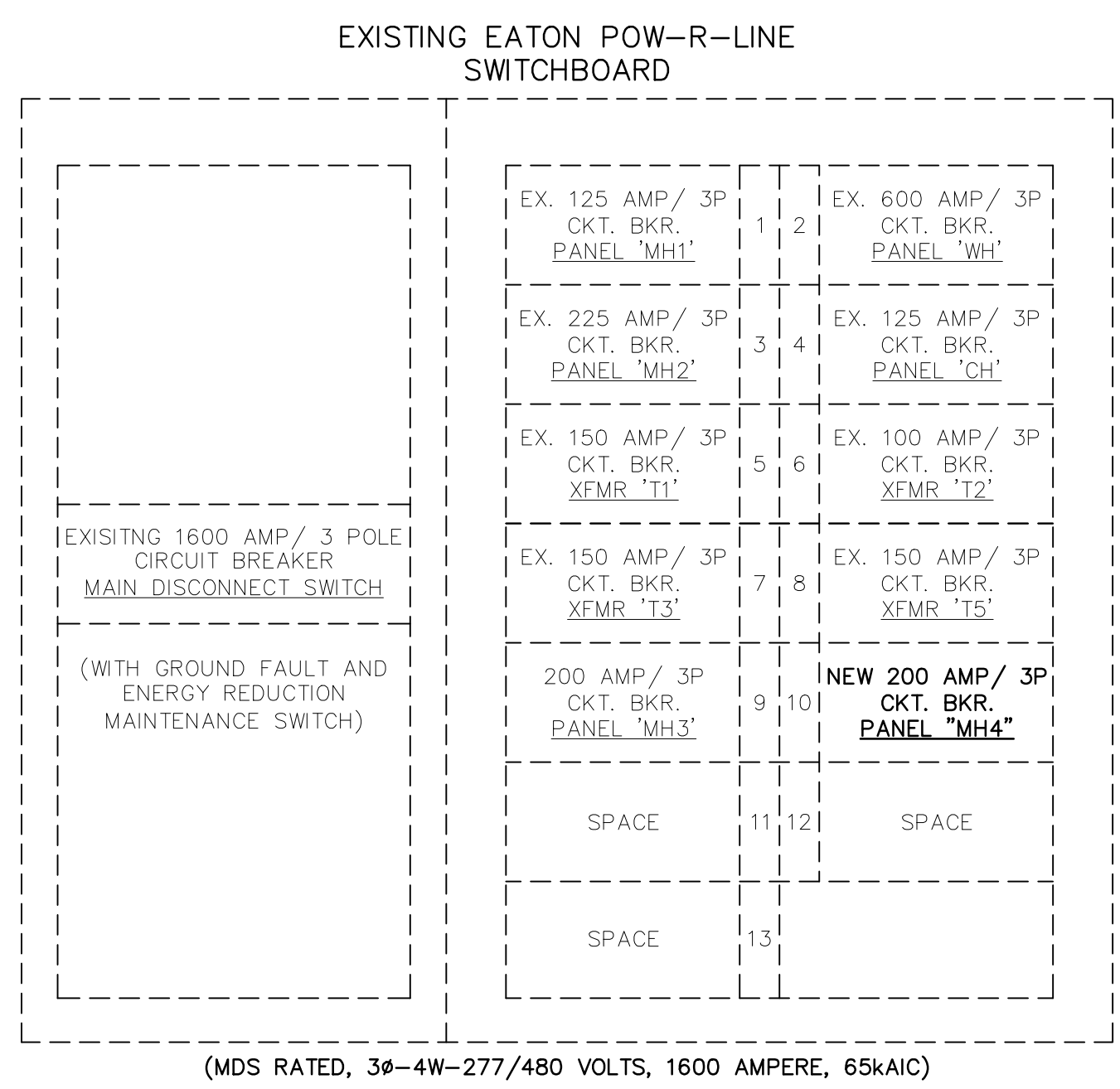


- DRAWING NOTES (APPLY TO THIS DRAWING ONLY)**
- 200 AMP/3-POLE CIRCUIT BREAKER.
 - 4 #4/0 & 1 #4 IN 2-1/2" CONDUIT.
 - 3 #1/0 & 1 #6 IN 2" CONDUIT.
 - SEE TRANSFORMER SCHEDULE THIS DRAWING.

PARTIAL MAIN WIRING DIAGRAM - 3φ-4W-277/480 VOLTS
NO SCALE

TRANSFORMER SCHEDULE							
SYMBOL	KVA	SERVES	LOCATION	MOUNTING	PRIMARY	SECONDARY	SECONDARY WIRE SIZE
T8	112.5	PANEL "ML4"	MATERIAL HANDLING AREA 113	FLOOR	3φ-480V	3φ-208V	4 #350KCMIL & 1 #2 IN 3" CONDUIT

NOTE:
PROVIDE 4" HIGH CONCRETE MAINTENANCE PAD.



EXISTING MDS DETAIL
NOT TO SCALE

PANEL "MH4" 35kAIC
3φ-4W-277/480V, 200A M.C.B.

LOAD	BKR	#	#	BKR	LOAD
1939	15	1	2	15	1219
1939	3	3	4	3	1219
1939	3	5	6	3	1219
941	15	7	8	---	---
941	9	9	10	---	---
941	3	11	12	---	---
---	15	13	14	---	---
---	---	15	16	---	---
---	3	17	18	---	---
---	---	19	20	150	28800
---	---	21	22	---	29280
---	---	23	24	3	24720
		KVA		AMPS	
PHASE A		32.9		119	
PHASE B		33.4		121	
PHASE C		28.8		104	

EXISTING PANEL "ML2"
3φ-4W-120/208V, 125A M.C.B.

LOAD	BKR	#	#	BKR	LOAD
7200	60	1	2	30	2640
7200	3	3	4	---	2640
7200	3	5	6	3	2640
4200	40	7	8	20/1	500
4200	9	10	11	20/1	---
4200	3	11	12	20/1	---
---	---	13	14	20/1	---
---	---	15	16	---	---
---	---	17	18	---	---
---	---	19	20	---	---
---	---	21	22	---	---
---	---	23	24	---	---
		KVA		AMPS	
PHASE A		14.5		121	
PHASE B		14.0		117	
PHASE C		14.0		117	

- NOTES:
 1. LIGHTER TEXT INDICATES EXISTING EQUIPMENT/CIRCUITS/LOADS.
 2. BOLDER TEXT INDICATES NEW.
 3. EXISTING AVAILABLE CIRCUIT BREAKER SPACE IS AS SHOWN.

PANEL "ML4"
3φ-4W-120/208V, 300A M.C.B.

LOAD	BKR	#	#	BKR	LOAD
540	20/1	1	2	50	4576
1000	20/1	3	4	2	4576
1000	20/1	5	6	20	1800
1000	20/1	7	8	---	1800
1000	20/1	9	10	3	1800
1000	20/1	11	12	20	1800
1000	20/1	13	14	---	1800
1000	20/1	15	16	3	1800
1000	20/1	17	18	20	1800
1020	15	19	20	---	1800
1020	---	21	22	3	1800
1020	3	23	24	35	3240
1320	15	25	26	---	3240
1320	---	27	28	3	3240
1320	3	29	30	20	1800
5280	60	31	32	---	1800
5280	---	33	34	3	1800
5280	3	35	36	20	1800
---	20/1	37	38	---	1800
---	20/1	39	40	3	1800
---	20/1	41	42	20	1800
---	20/1	43	44	---	1800
---	20/1	45	46	3	1800
---	20/1	47	48	20/1	---
---	20/1	49	50	20/1	---
---	20/1	51	52	20/1	---
---	20/1	53	54	20/1	---
---	20/1	55	56	20/1	---
---	20/1	57	58	20/1	---
---	20/1	59	60	20/1	---
		KVA		AMPS	
PHASE A		28.8		240	
PHASE B		29.2		244	
PHASE C		24.7		206	

EXISTING PANEL "ML"
3φ-4W-120/208V, 300A M.C.B.

LOAD	BKR	#	#	BKR	LOAD
720	20/1	1	2	50	3640
720	20/1	3	4	2	3640
540	20/1	5	6	20/1	---
720	20/1	7	8	35	3960
360	20/1	9	10	---	3960
720	20/1	11	12	3	3960
720	20/1	13	14	30	2200
720	20/1	15	16	---	2200
540	20/1	17	18	3	2200
---	XX	19	20	80	9600
---	---	21	22	---	9600
---	3	23	24	3	9600
936	20	25	26	20	936
936	---	27	28	---	936
936	3	29	30	3	936
1541	20/1	31	32	40	2600
406	20/1	33	34	2	2600
1520	20/1	35	36	20/1	360
855	20/1	37	38	50	4800
1140	20/1	39	40	---	4800
180	20/1	41	42	3	4800
540	20/1	43	44	---	---
936	20	45	46	---	---
936	---	47	48	---	---
936	3	49	50	---	---
---	20/1	51	52	---	---
---	20/1	53	54	---	---
---	20/1	55	56	---	---
---	20/1	57	58	---	---
---	20/1	59	60	---	---
		KVA		AMPS	
PHASE A		34.7		289	
PHASE B		33.0		275	
PHASE C		27.2		227	

- NOTES:
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EXISTING PANEL "OL"
3φ-4W-120/208V, 125A M.C.B.

LOAD	BKR	#	#	BKR	LOAD
1364	20/1	1	2	15/1	989
540	20/1	3	4	25	1860
720	20/1	5	6	---	1860
720	20/1	7	8	3	1860
540	20/1	9	10	15	1296
540	20/1	11	12	---	1296
720	20/1	13	14	3	1296
720	20/1	15	16	20/1	540
720	20/1	17	18	20/1	540
50	20/1	19	20	20/1	180
200	20/1	21	22	15	832
180	20/1	23	24	2	832
---	20/1	25	26	20/1	1828
---	20/1	27	28	15/1	500
---	20/1	29	30	---	---
---	20/1	31	32	---	---
500	15/1	33	34	---	---
---	---	35	36	---	---
---	---	37	38	---	---
---	---	39	40	---	---
---	---	41	42	---	---
		KVA		AMPS	
PHASE A		9.0		75	
PHASE B		7.5		63	
PHASE C		6.7		56	

- NOTES:
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 2. BOLDER TEXT INDICATES NEW.
 3. EXISTING AVAILABLE CIRCUIT BREAKER SPACE IS AS SHOWN.

December 07, 2023, 2:56pm I:\Project\2023\23-023 - ACM WNW - Equipment Relocation-Additions & Point Room\Drawings\2023 - ELD.dwg