

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V3.00

Table with columns: STANDARD MOUNTING HEIGHTS, ANNOTATION, and descriptions for various electrical symbols like audible appliances, alarms, annunciator panels, etc.

Table with columns: ANNOTATION, and descriptions for various electrical symbols like light fixture, emergency light fixture, night light, etc.

INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER

Table of ABBREVIATIONS with columns: ABBREVIATIONS, DESCRIPTION, and SYMBOLS for terms like AF, AFC, AFG, AHJ, etc.

Table of CIRCUITING & WIRING symbols and descriptions, including HOMERUN TO PANELBOARD, CONDUIT CONCEALED, and CONDUIT CONCEALED (EMERGENCY).

Table of LINETYPE LEGEND with columns: EXISTING, NEW, DEMOLISH, and FUTURE, describing line styles for construction documents.

Table of CONDUCTOR TICK MARK LEGEND with columns: TICK MARK, DESCRIPTION, and QUANTITY, including symbols for hot, neutral, and grounded conductors.

Table of BRANCH CIRCUIT CONDUCTOR TABLE with columns: # OF POLES, HOT (PHASE), NEUTRAL, and GROUNDING, providing conductor counts for different configurations.

Table of LIGHTING symbols and descriptions, including light fixture, emergency light fixture, night light, and lighting track.

Table of POWER EQUIPMENT & DEVICES symbols and descriptions, including electrical panelboard, electrical cabinet, and transformer.

Table of BOXES, LIGHTING CONTROL & WIRING DEVICES symbols and descriptions, including switch, circuit breaker, and occupancy sensor.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

Table of ELECTRICAL ONE-LINE & RISER DIAGRAM symbols and descriptions, including switch, circuit breaker, and transformer.

SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:

COMMISSIONING / FUNCTIONAL TESTING:

- 1. PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTIONS TO TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS... 2. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO ALL DUCT-MOUNTED SMOKE DETECTORS...

- CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN... 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS...

APPLICABLE ELECTRICAL CODES:

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70) BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE ENERGY CODE: NONE

- 14. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED... 15. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS...

DLR Group logo and contact information for Curtis A. Olds, Professional Engineer.

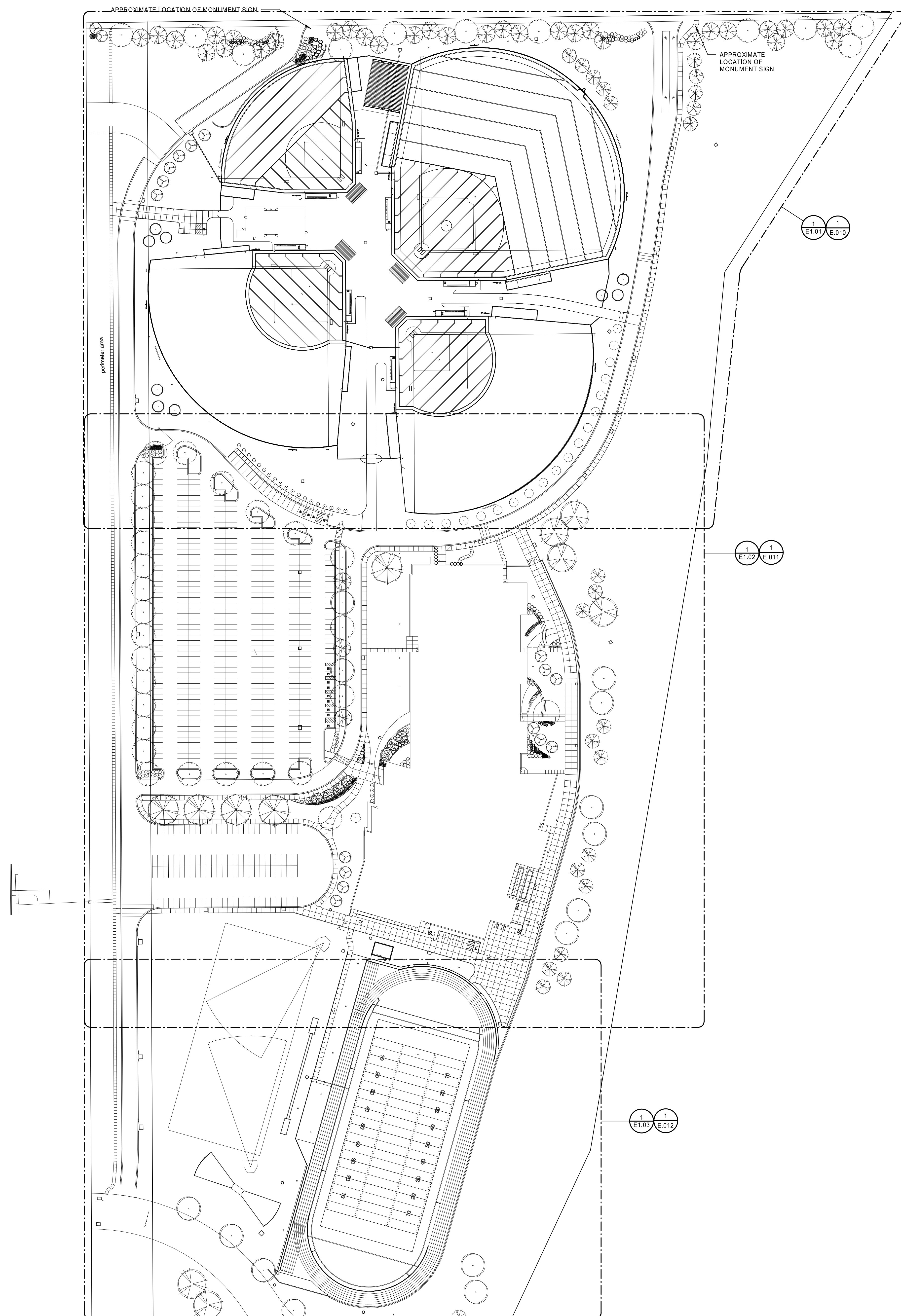
Professional Engineer seal for Curtis A. Olds, License # PE-2018036640, State of Missouri.

HENDERSON ENGINEERS logo and contact information for Curtis A. Olds, Professional Engineer.

LEE'S SUMMIT MIDDLE SCHOOL #4 logo and address: 1001 SE BAILEY ROAD, LEE'S SUMMIT, MO 64081.

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS

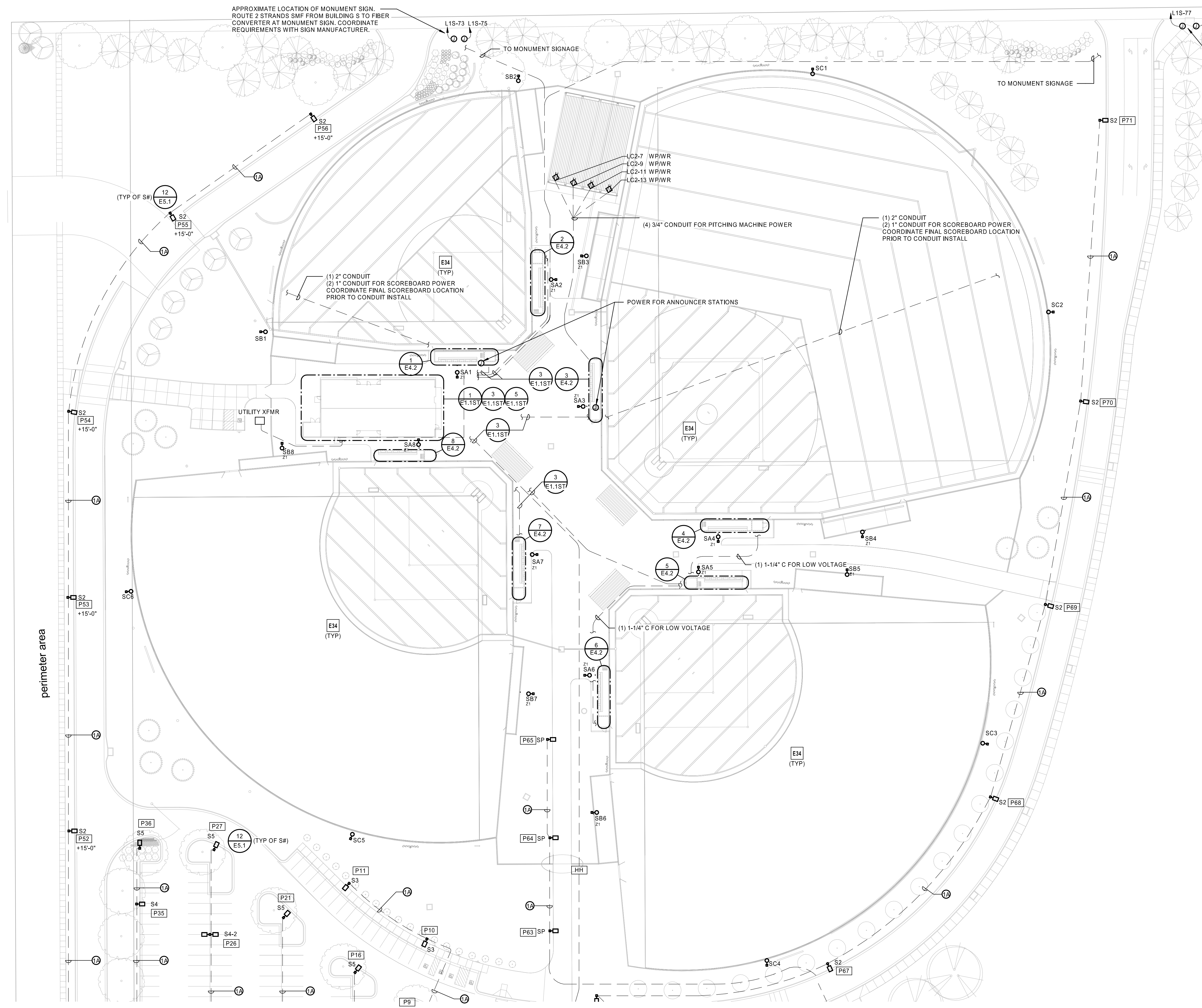
ELECTRICAL GENERAL NOTES AND LEGEND E0.1



- SITE ELECTRICAL GENERAL NOTES:**
- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
 - COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.
 - SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE. UNLESS NOTED OTHERWISE, COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
 - CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
 - MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE. ALL SITE ELECTRICAL BRANCH CIRCUIT WIRING SHALL BE SIZED SUCH THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP IS LESS THAN 3 PERCENT.
 - PROVIDE SPLICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE. (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12", SHALL BE AN OPEN BOTTOM NPT LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.

1 ELECTRICAL SITE PLAN - OVERALL
1" = 80'-0"

CURTIS A. OLDS



APPROXIMATE LOCATION OF MONUMENT SIGN. ROUTE 2 STRANDS SMF FROM BUILDING S TO FIBER CONVERTER AT MONUMENT SIGN. COORDINATE REQUIREMENTS WITH SIGN MANUFACTURER.

TO MONUMENT SIGNAGE

TO MONUMENT SIGNAGE

APPROXIMATE LOCATION OF MONUMENT SIGN. ROUTE 2 STRANDS SMF FROM BUILDING S TO FIBER CONVERTER AT MONUMENT SIGN. COORDINATE REQUIREMENTS WITH SIGN MANUFACTURER.

POLEMOUNTING HEIGHTS

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILING MOUNTED
W16,W16E	VERTICAL WALL MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

VOLTAGE DROP CALCULATIONS - ATHLETIC LIGHTING

PNL***-CKT	Identification	Source Pole	Conduit Type	Conductor Material	No. of Sets	Wire Size (Phase)	Voltage	Phase	Circuit Length (Feet)**	Power Factor (PF)	Circuit Load (Amps)**	Branch Voltage Drop (%)
1.3.5	SA1	-	P	CU	1	10	480	3	235	0.90	5.900	0.551%
7.9.11	SA2	-	P	CU	1	10	480	3	385	0.90	5.900	0.903%
13.15.17	SB1	-	P	CU	1	10	480	3	235	0.90	10.500	0.981%
19.21.23	SB2	-	P	CU	1	10	480	3	565	0.90	10.500	2.359%
25.27.29	SA3	-	P	CU	1	10	480	3	315	0.90	9.100	1.140%
31.33.35	SA4	-	P	CU	1	10	480	3	440	0.90	9.100	1.592%
37.39.41	SB3	-	P	CU	1	8	480	3	410	0.90	17.300	1.855%
43.45.47	SB4	-	P	CU	1	6	480	3	630	0.90	19.200	2.022%
49.51.53	SC1	-	P	CU	1	6	480	3	755	0.90	15.300	1.931%
55.57.59	SC2	-	P	CU	1	6	480	3	890	0.90	15.300	2.276%
2.4.6	SA5	-	P	CU	1	10	480	3	415	0.90	9.100	1.501%
8.10.12	SA6	-	P	CU	1	10	480	3	485	0.90	9.100	1.755%
14.16.18	SB5	-	P	CU	1	8	480	3	540	0.90	14.100	1.991%
20.22.24	SB6	-	P	CU	1	8	480	3	620	0.90	14.100	2.286%
26.28.30	SC3	-	P	CU	1	8	480	3	830	0.90	10.900	2.366%
32.34.36	SC4	-	P	CU	1	8	480	3	880	0.90	10.900	2.508%
38.40.42	SA7	-	P	CU	1	10	480	3	310	0.90	9.100	1.122%
44.46.48	SA8	-	P	CU	1	10	480	3	140	0.90	9.100	0.507%
50.52.54	SB7	-	P	CU	1	10	480	3	460	0.90	14.100	2.579%
56.58.60	SB8	-	P	CU	1	10	480	3	120	0.90	14.100	0.673%
62.64.66	SC5	-	P	CU	1	10	480	3	365	0.90	10.900	1.582%
68.70.72	SC6	-	P	CU	1	8	480	3	675	0.90	10.900	1.924%

*Circuit length assumes reasonable conduit paths to pole, 90-degree turns, and 70' for maximum pole height. Circuit length shall be assumed as approximate. Provide documentation during athletic field lighting submittal for review - contractor shall update circuit length and confirm no circuits exceed 2.8% voltage drop.

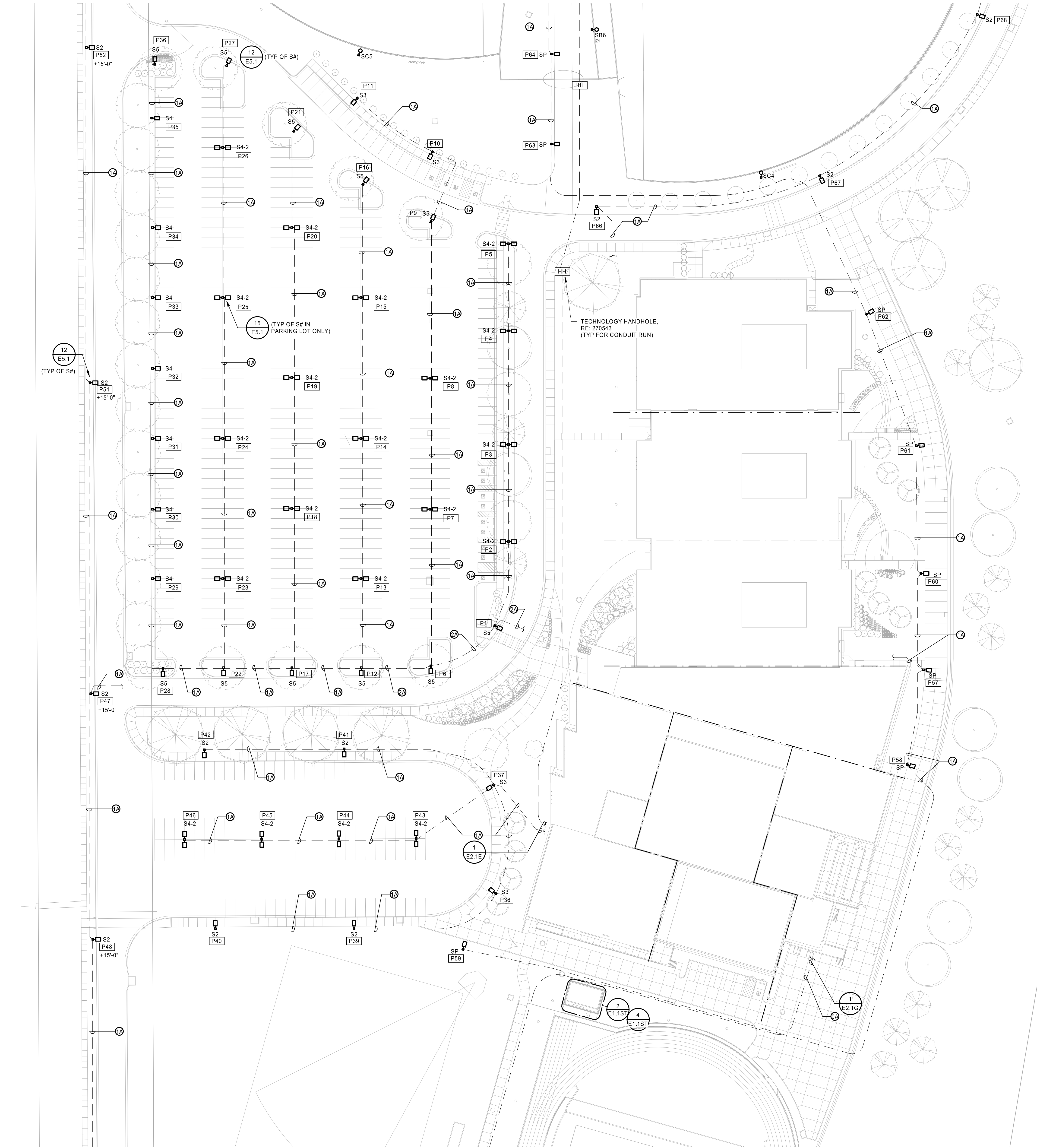
**Circuit load provided by Musco Lighting

***Circuits are fed from panel H15 and routed through Musco Lighting relay panels.

1 ELECTRICAL SITE PLAN - NORTH
1" = 40'-0"



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640



1 ELECTRICAL SITE PLAN - AREA 2
1" = 40'-0"

VOLTAGE DROP CALCULATIONS - SITE LIGHTING

PNL-OKT	Identification	Source Pole	Conduit Type	Conductor Material	No. of Sets	Wire Size (Phase)	Voltage	Phase	Circuit Length (Feet)	Power Factor (PF)	Circuit Load (Amps)	Branch Voltage Drop (Volts)	Cumulative Voltage Drop (%)	
2H1C-12	P1 To S5	-	P	CU	1	8	277	1	200	0.95	2.732	2.586	0.934%	
2H1C-12	P2 To S4-2	P1	P	CU	1	8	277	1	80	0.95	2.732	0.331	1.053%	
2H1C-12	P3 To S4-2	P2	P	CU	1	8	277	1	90	0.95	2.049	0.279	1.154%	
2H1C-12	P4 To S4-2	P3	P	CU	1	8	277	1	105	0.95	1.366	0.217	1.232%	
2H1C-12	P5 To S4-2	P4	P	CU	1	8	277	1	80	0.95	0.683	0.083	1.282%	
2H1C-12	P6 To S5	P1	P	CU	1	8	277	1	70	0.95	2.732	0.290	1.038%	
2H1C-12	P7 To S4-2	P6	P	CU	1	8	277	1	140	0.95	2.391	0.507	1.221%	
2H1C-12	P8 To S4-2	P7	P	CU	1	8	277	1	120	0.95	1.708	0.310	1.333%	
2H1C-12	P9 To S5	P8	P	CU	1	8	277	1	140	0.95	1.025	0.217	1.412%	
2H1C-12	P10 To S3	P9	P	CU	1	8	277	1	75	0.95	0.683	0.078	1.440%	
2H1C-12	P11 To S3	P10	P	CU	1	8	277	1	85	0.95	0.342	0.044	1.455%	
2H1C-12	P12 To S5	P6	P	CU	1	8	277	1	60	0.95	2.732	0.248	1.128%	
2H1C-12	P13 To S4-2	P12	P	CU	1	8	277	1	80	0.95	2.391	0.290	1.232%	
2H1C-12	P14 To S4-2	P13	P	CU	1	8	277	1	130	0.95	1.708	0.336	1.354%	
2H1C-12	P15 To S4-2	P14	P	CU	1	8	277	1	130	0.95	1.025	0.202	1.422%	
2H1C-12	P16 To S5	P15	P	CU	1	8	277	1	100	0.95	0.342	0.052	1.445%	
2H1C-14	P17 To S5	-	P	CU	1	8	277	1	395	0.95	9.221	5.516	1.995%	
2H1C-14	P18 To S4-2	P17	P	CU	1	8	277	1	145	0.95	2.391	0.525	2.385%	
2H1C-14	P19 To S4-2	P18	P	CU	1	8	277	1	120	0.95	1.708	0.310	2.297%	
2H1C-14	P20 To S4-2	P19	P	CU	1	8	277	1	135	0.95	1.025	0.209	2.372%	
2H1C-14	P21 To S5	P20	P	CU	1	8	277	1	85	0.95	0.342	0.044	2.388%	
2H1C-14	P22 To S5	P17	P	CU	1	8	277	1	65	0.95	3.415	0.336	2.116%	
2H1C-14	P23 To S4-2	P22	P	CU	1	8	277	1	80	0.95	3.074	0.372	2.251%	
2H1C-14	P24 To S4-2	P23	P	CU	1	8	277	1	125	0.95	2.391	0.453	2.414%	
2H1C-14	P25 To S4-2	P24	P	CU	1	8	277	1	125	0.95	1.708	0.323	2.531%	
2H1C-14	P26 To S4-2	P25	P	CU	1	8	277	1	135	0.95	1.025	0.209	2.607%	
2H1C-14	P27 To S5	P26	P	CU	1	8	277	1	75	0.95	0.342	0.039	2.621%	
2H1C-14	P28 To S5	P27	P	CU	1	8	277	1	80	0.95	3.074	0.266	2.209%	
2H1C-14	P29 To S5	P28	P	CU	1	8	277	1	95	0.95	2.732	0.393	2.351%	
2H1C-14	P30 To S5	P29	P	CU	1	8	277	1	65	0.95	2.391	0.235	2.436%	
2H1C-14	P31 To S5	P30	P	CU	1	8	277	1	65	0.95	2.049	0.202	2.509%	
2H1C-14	P32 To S5	P31	P	CU	1	8	277	1	65	0.95	1.708	0.188	2.569%	
2H1C-14	P33 To S5	P32	P	CU	1	8	277	1	65	0.95	1.366	0.134	2.618%	
2H1C-14	P34 To S5	P33	P	CU	1	8	277	1	65	0.95	1.025	0.101	2.654%	
2H1C-14	P35 To S5	P34	P	CU	1	8	277	1	95	0.95	0.683	0.098	2.690%	
2H1C-14	P36 To S5	P35	P	CU	1	8	277	1	50	0.95	0.342	0.026	2.699%	
1H1E-33	P37 To S3	-	P	CU	1	8	277	1	125	0.95	4.781	0.905	0.330%	
1H1E-33	P38 To S3	P37	P	CU	1	8	277	1	100	0.95	1.025	0.155	0.387%	
1H1E-33	P39 To S2	P38	P	CU	1	8	277	1	140	0.95	0.683	0.145	0.439%	
1H1E-33	P40 To S2	P39	P	CU	1	8	277	1	125	0.95	0.342	0.065	0.462%	
1H1E-33	P41 To S2	P37	P	CU	1	8	277	1	145	0.95	0.683	0.150	0.385%	
1H1E-33	P42 To S2	P41	P	CU	1	8	277	1	1	0.95	0.342	0.065	0.408%	
1H1E-33	P43 To S4-2	P37	P	CU	1	8	277	1	80	0.95	2.732	0.331	0.450%	
1H1E-33	P44 To S4-2	P43	P	CU	1	8	277	1	70	0.95	2.049	0.217	0.528%	
1H1E-33	P45 To S4-2	P44	P	CU	1	8	277	1	70	0.95	1.366	0.145	0.581%	
1H1E-33	P46 To S4-2	P45	P	CU	1	8	277	1	70	0.95	0.683	0.072	0.607%	
2H1C-16	P47 To S2	-	P	CU	1	8	277	1	605	0.95	3.415	3.129	1.133%	
2H1C-16	P48 To S2	P47	P	CU	1	8	277	1	220	0.95	1.025	0.341	1.257%	
2H1C-16	P49 To S2	P48	P	CU	1	8	277	1	215	0.95	0.683	0.222	1.337%	
2H1C-16	P50 To S2	P49	P	CU	1	8	277	1	235	0.95	0.342	0.122	1.381%	
2H1C-16	P51 To S2	P47	P	CU	1	8	277	1	290	0.95	2.049	0.869	1.447%	
2H1C-16	P52 To S2	P51	P	CU	1	8	277	1	300	0.95	1.708	0.776	1.727%	
2H1C-16	P53 To S2	P52	P	CU	1	8	277	1	205	0.95	1.366	0.424	1.880%	
2H1C-16	P54 To S2	P53	P	CU	1	8	277	1	165	0.95	1.025	0.256	1.973%	
2H1C-16	P55 To S2	P54	P	CU	1	8	277	1	200	0.95	0.683	0.207	2.047%	
2H1C-16	P56 To S2	P55	P	CU	1	8	277	1	150	0.95	0.342	0.078	2.075%	
2H1C-18	P57 To SP	-	P	CU	1	8	277	1	215	0.95	1.894	0.604	0.222%	
2H1C-18	P58 To SP	P57	P	CU	1	8	277	1	80	0.95	0.421	0.050	0.240%	
2H1C-18	P59 To SP	P58	P	CU	1	8	277	1	620	0.95	0.210	0.193	0.309%	
2H1C-18	P60 To SP	P57	P	CU	1	8	277	1	80	0.95	1.263	0.150	0.276%	
2H1C-18	P61 To SP	P60	P	CU	1	8	277	1	110	0.95	1.052	0.172	0.338%	
2H1C-18	P62 To SP	P61	P	CU	1	8	277	1	130	0.95	0.842	0.162	0.396%	
2H1C-18	P63 To SP	P62	P	CU	1	8	277	1	390	0.95	0.631	0.365	0.528%	
2H1C-18	P64 To SP	P63	P	CU	1	8	277	1	80	0.95	0.421	0.050	0.546%	
2H1C-18	P65 To SP	P64	P	CU	1	8	277	1	85	0.95	0.210	0.027	0.555%	
2H1A-10	P66 To S2	-	P	CU	1	8	277	1	1	0.95	2.049	0.003	0.005%	
2H1A-10	P67 To S2	P66	P	CU	1	8	277	1	205	0.95	1.708	0.519	0.192%	
2H1A-10	P68 To S2	P67	P	CU	1	8	277	1	205	0.95	1.366	0.415	0.342%	
2H1A-10	P69 To S2	P68	P	CU	1	8	277	1	175	0.95	1.025	0.266	0.438%	
2H1A-10	P70 To S2	P69	P	CU	1	8	277	1	180	0.95	0.683	0.182	0.504%	
2H1A-10	P71 To S2	P70	P	CU	1	8	277	1	245	0.95	0.342	0.124	0.548%	
Typ Run	-	S3/S5 Fixture	-	P	CU	1	8	277	1	20	0.95	0.342	0.010	0.004%
Typ Run	-	S4-2 Fixture	-	P	CU	1	8	277	1	20	0.95	0.683	0.021	0.007%

POLE/MOUNTING HEIGHTS

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILING MOUNTED
W16,W16E	VERTICAL WALL MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

ELECTRICAL SHEET NOTES:

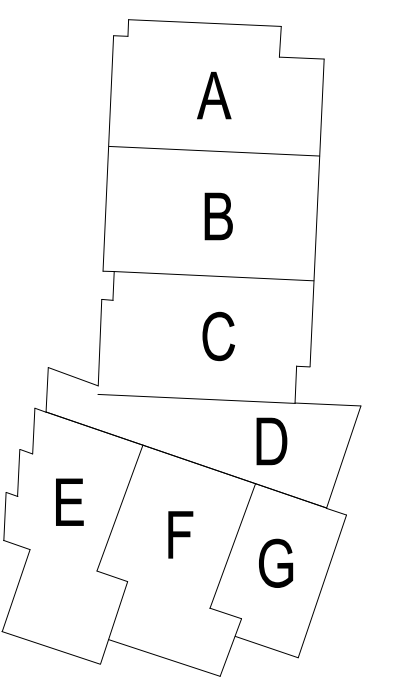
[P#] = SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.


- COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

SITE LIGHTING CIRCUIT LEGEND


- ① # INDICATES NUMBER OF CIRCUITS IN A CONDUIT
- ② INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION
- ③ 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- ④ (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- ⑤ 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.
- ⑥ 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.

KEY PLAN






DLR Group
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 ALL RIGHTS RESERVED
 Missouri State Commission of Examiners #00333



CURTIS A. OLDS
 NUMBER PE-2018036640
 LICENSE NO. 0000000000
 EXPIRES 12/31/2020

Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

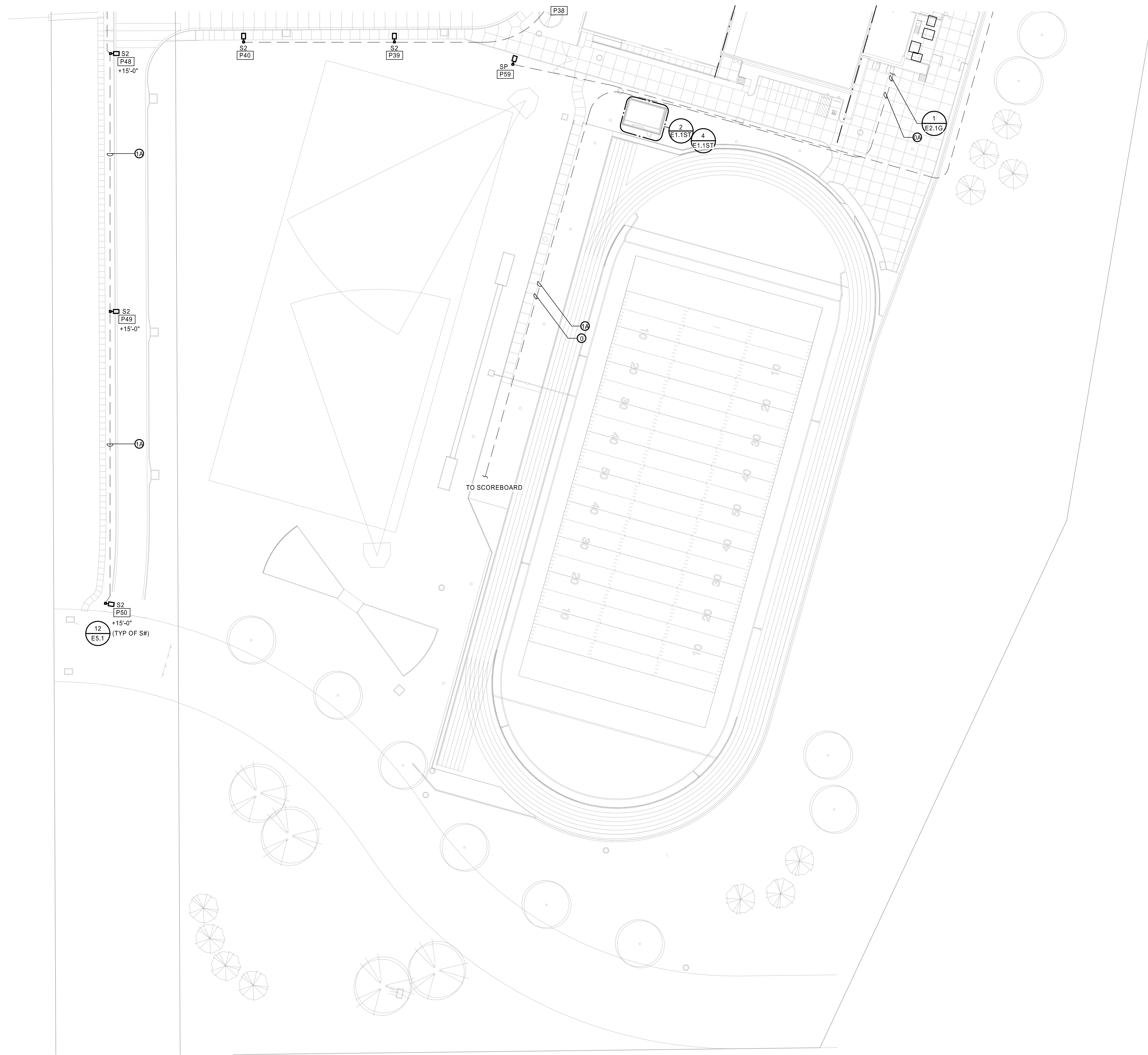


HENDERSON ENGINEERS
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 WWW.HENDERSONENGINEERS.COM
 MISSOURI PROFESSIONAL ENGINEERS
 LICENSE NO. 0000000000
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

13-20102-00
 ELECTRICAL SITE PLAN - AREA 2
 E1.02



1 ELECTRICAL SITE PLAN - SOUTH
1" = 40'-0"

POLE/MOUNTING HEIGHTS

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W6,W8E	CANOPY CEILING MOUNTED
W16,W18E	VERTICAL WALL MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

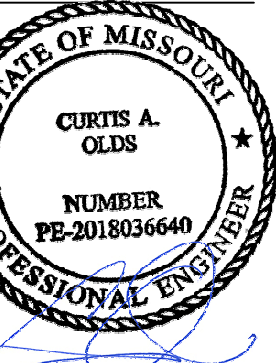
ELECTRICAL SHEET NOTES:

= SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.

- COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

SITE LIGHTING CIRCUIT LEGEND

- # INDICATES NUMBER OF CIRCUITS IN A CONDUIT
- _ INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION
- 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.
- 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

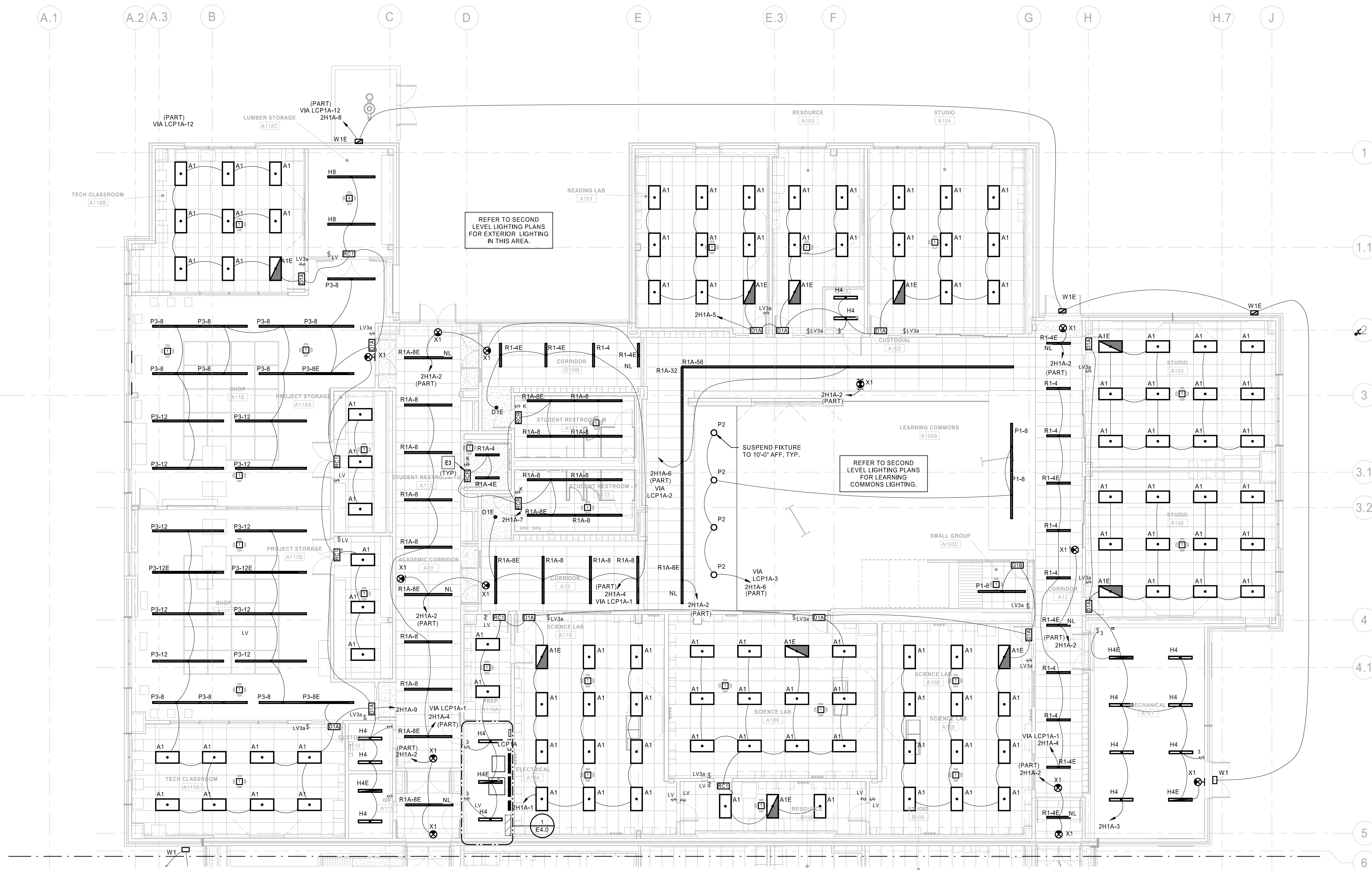
HENDERSON
 ENGINEERS
 8045 LENEXA DRIVE, SUITE 300
 LENEXA, KS 66042
 TEL: 913.741.4300
 WWW.HENDERSONENGINEERS.COM
 MISSOURI
 M.O. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LIGHTING CONTROLS INTENT:

- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
- INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
- EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

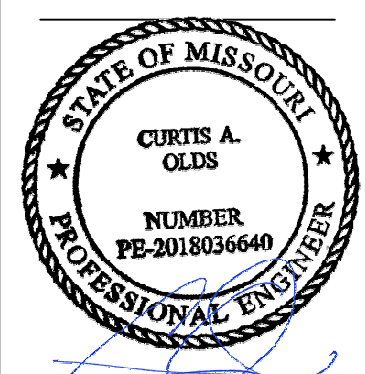
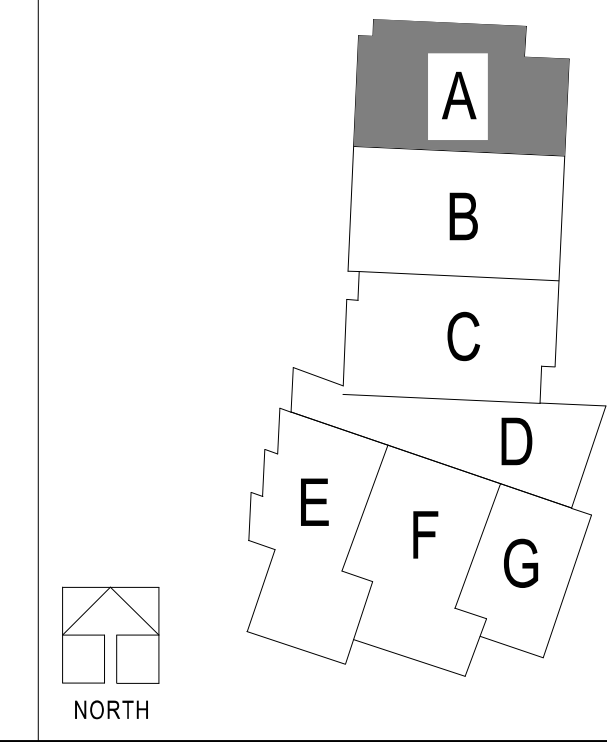
ELECTRICAL PLAN NOTES:

- E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.



1 LIGHTING FIRST LEVEL RCP - AREA A
1/8" = 1'-0"

KEY PLAN



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

HENDERSON
 ENGINEERS
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 WWW.HENDERSONENGINEERS.COM
 MO. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

13-20102-00

LIGHTING FIRST LEVEL RCP - AREA A

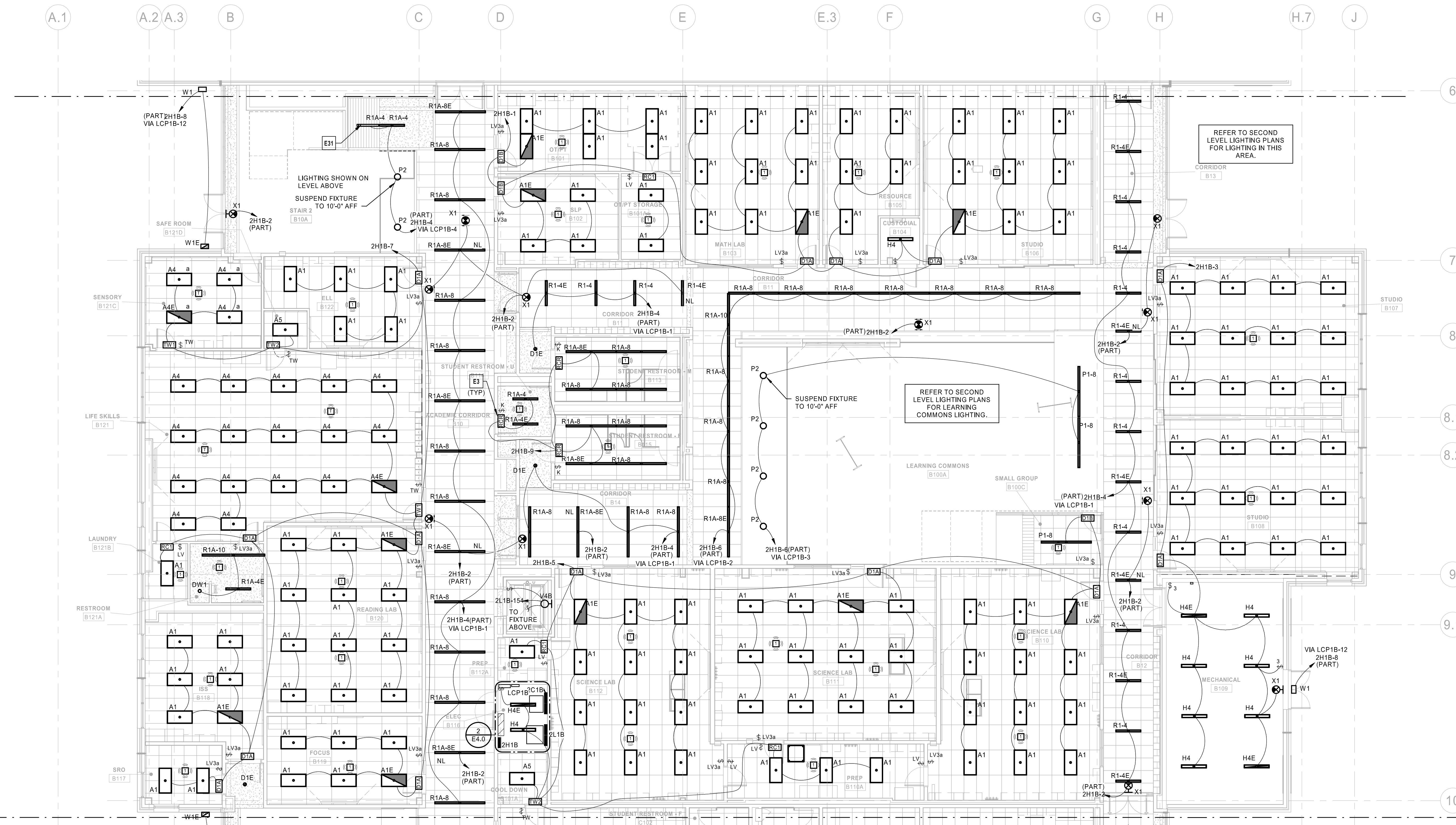
E1.1A

LIGHTING CONTROLS INTENT:

- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
- INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
- EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

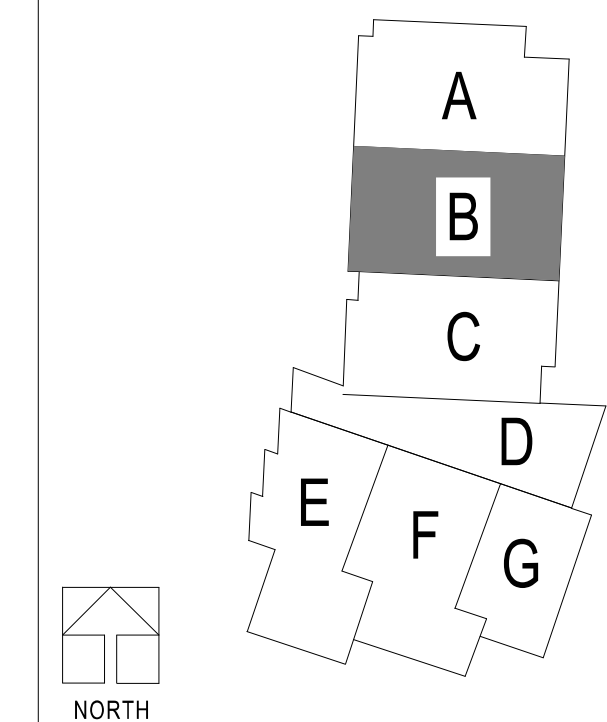
ELECTRICAL PLAN NOTES:

- E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGNOSTIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.
- E31 RECESSED LINEAR FIXTURE TO BE INSTALLED IN ANGLED PORTION OF CEILING UNDER BATH STAIRS. COORDINATE INSTALLATION REQUIREMENTS FOR TRANSITION OF CEILING FROM FLAT TO ANGLED WITH MANUFACTURER'S SPECIFICATIONS.



① LIGHTING FIRST LEVEL RCP - AREA B
1/8" = 1'-0"

KEY PLAN

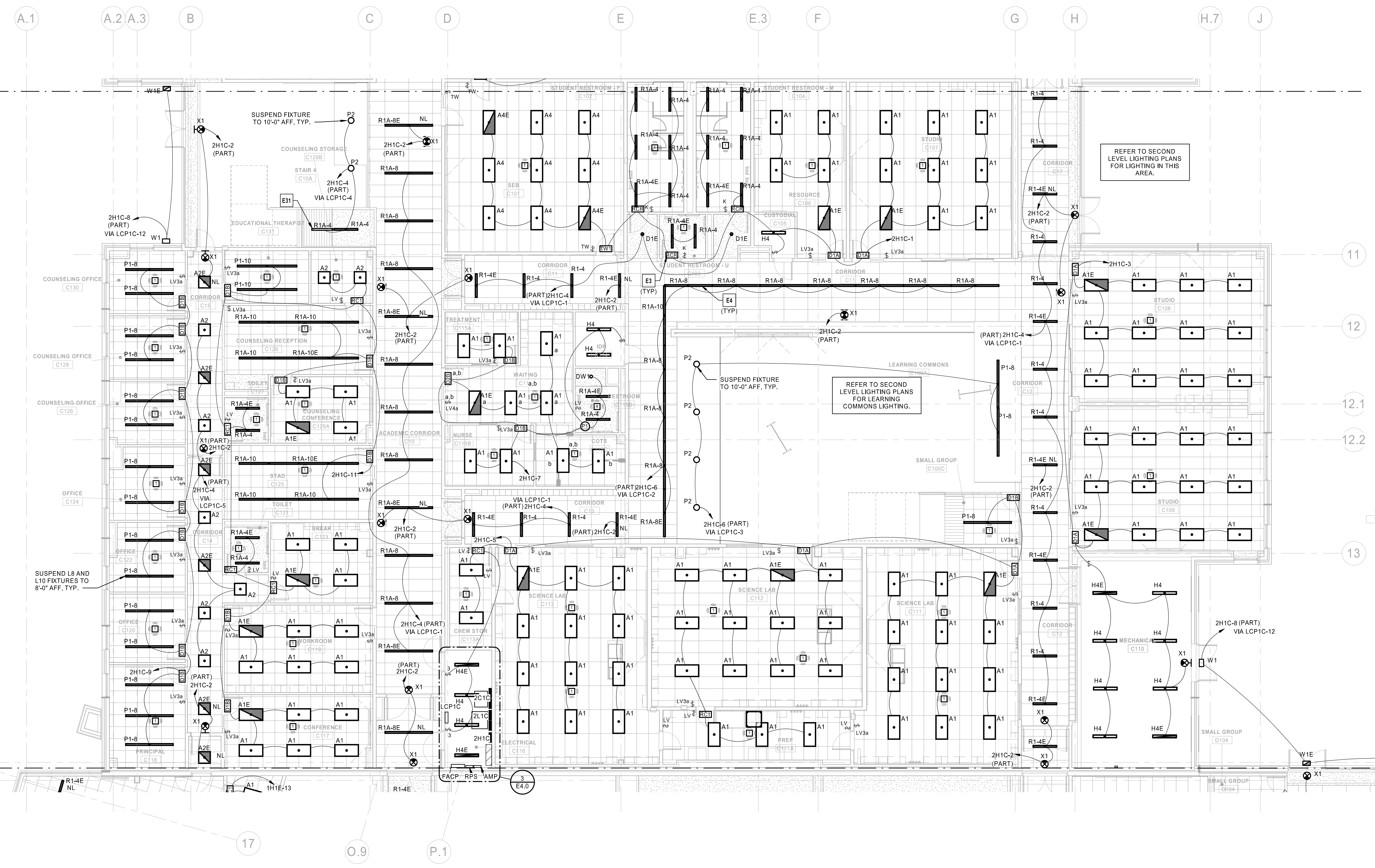


ELECTRICAL PLAN NOTES:

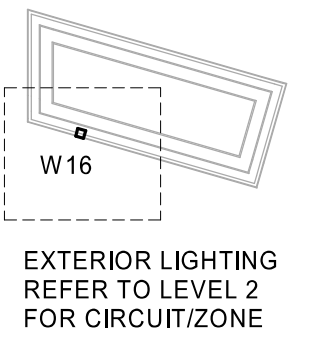
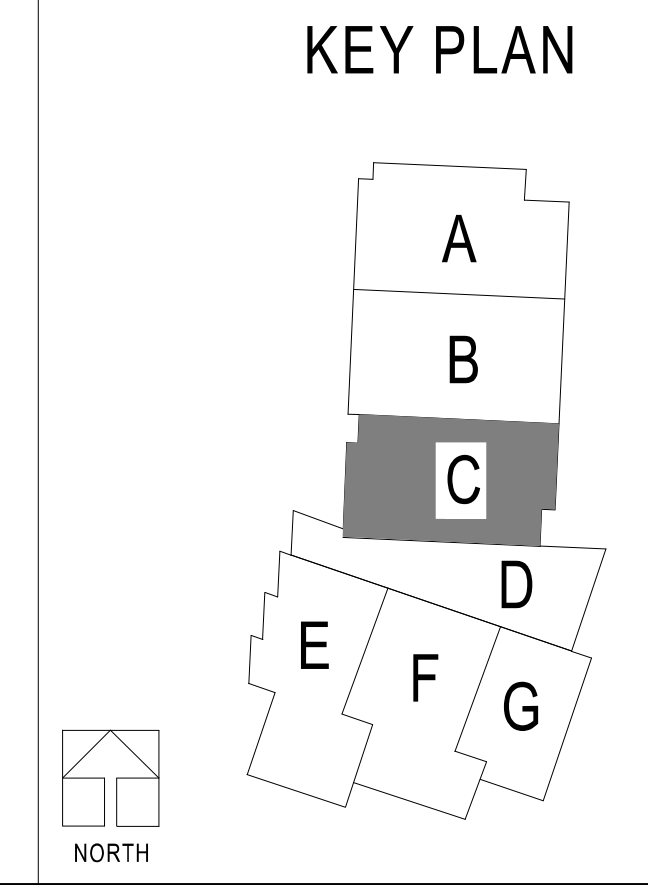
- E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGNAMTTIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
- E5 RECESSED LINEAR FIXTURE TO BE INSTALLED IN ANGLED PORTION OF CEILING UNDERNEATH STAIRS. COORDINATE INSTALLATION REQUIREMENTS FOR TRANSITION OF CEILING FROM FLAT TO ANGLED WITH MANUFACTURER'S SPECIFICATIONS.

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED 'NL' (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. REFER TO EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.



1 LIGHTING FIRST LEVEL RCP - AREA C
 1/8" = 1'-0"



REFER TO SECOND
 LEVEL LIGHTING PLANS
 FOR LIGHTING IN THIS
 AREA.

ELECTRICAL PLAN NOTES:

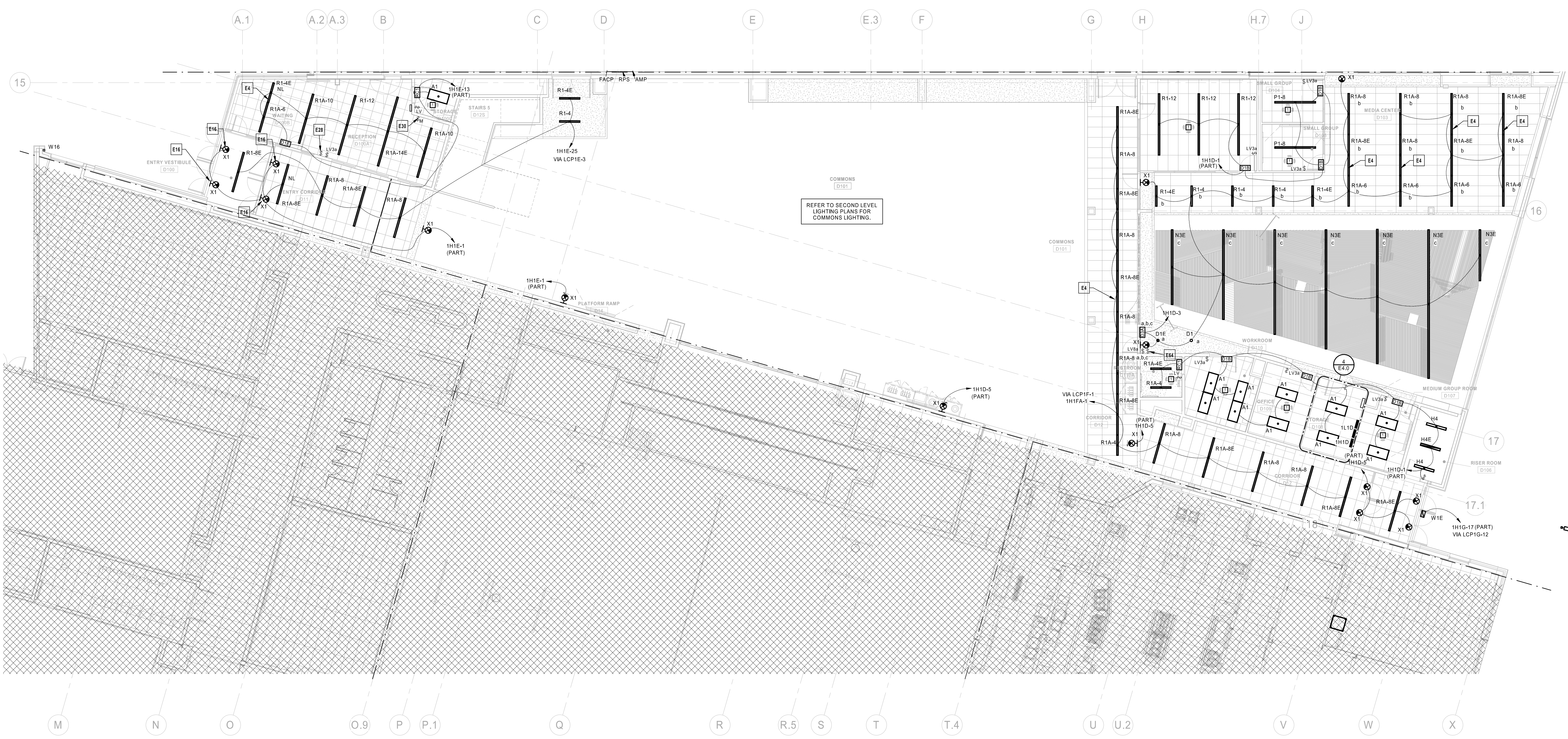
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
- E16 MOUNT EXIT SIGN TO STRUCTURAL ELEMENT BETWEEN UPPER AND LOWER STOREFRONT GLASS. COORDINATE ROUGH-IN WITH FIELD CONDITIONS.
- E28 LOW VOLTAGE SWITCH FOR CONTROL OF MOTORIZED BLINDS IN ROOM D103. CONNECT SWITCH TO RELAY PANEL IN ROOM D108. COORDINATE LOCATION OF SWITCH WITH OWNER. COORDINATE CONTROLS REQUIREMENTS WITH MOTORIZED BLINDS MANUFACTURER.
- E30 PROPOSED LOCATION FOR MASTER LIGHTING CONTROL INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURERS SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

ELECTRICAL PLAN NOTES:

- E64 LOW VOLTAGE SWITCH FOR CONTROL OF MOTORIZED BLINDS IN ROOM D103. CONNECT SWITCH TO RELAY PANEL IN ROOM D108. COORDINATE LOCATION OF SWITCH WITH OWNER. COORDINATE CONTROLS REQUIREMENTS WITH MOTORIZED BLINDS MANUFACTURER.

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. REFER TO EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.



REFER TO SECOND LEVEL LIGHTING PLANS FOR COMMONS LIGHTING.

COMMONS D101

COMMONS D101

PLATFORM RAMP

1H1E-1 (PART)

1H1E-1 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

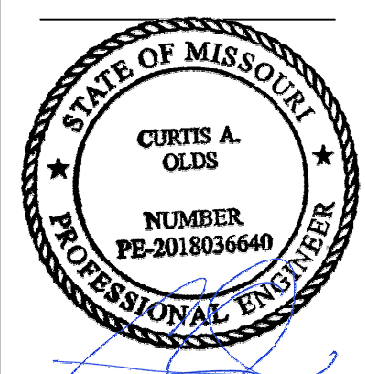
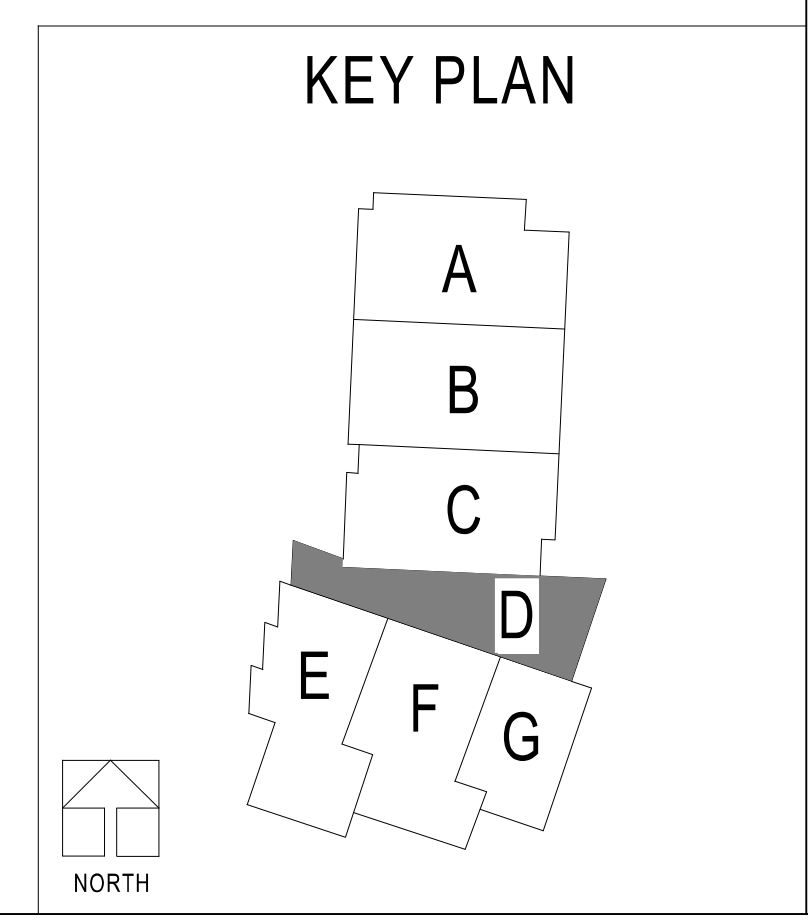
1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1H1D-5 (PART)

1 LIGHTING FIRST LEVEL RCP - AREA D
1/8" = 1'-0"



Oct 8 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

HENDERSON ENGINEERS
1031 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081
TEL: 816.254.4500
WWW.HENDERSONENGINEERS.COM

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

13-20102-00
LIGHTING FIRST LEVEL RCP - AREA D

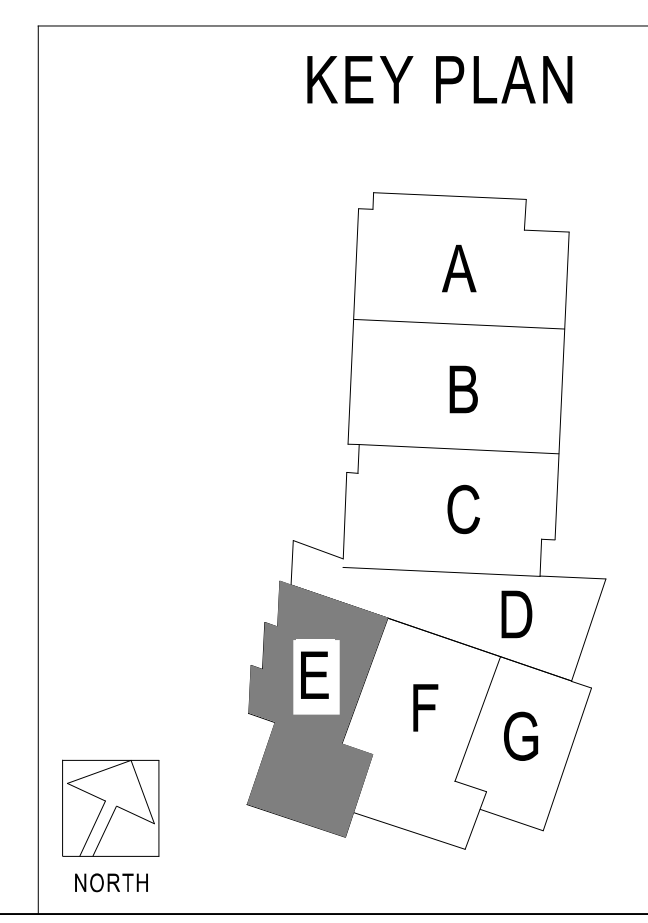
E1.1D

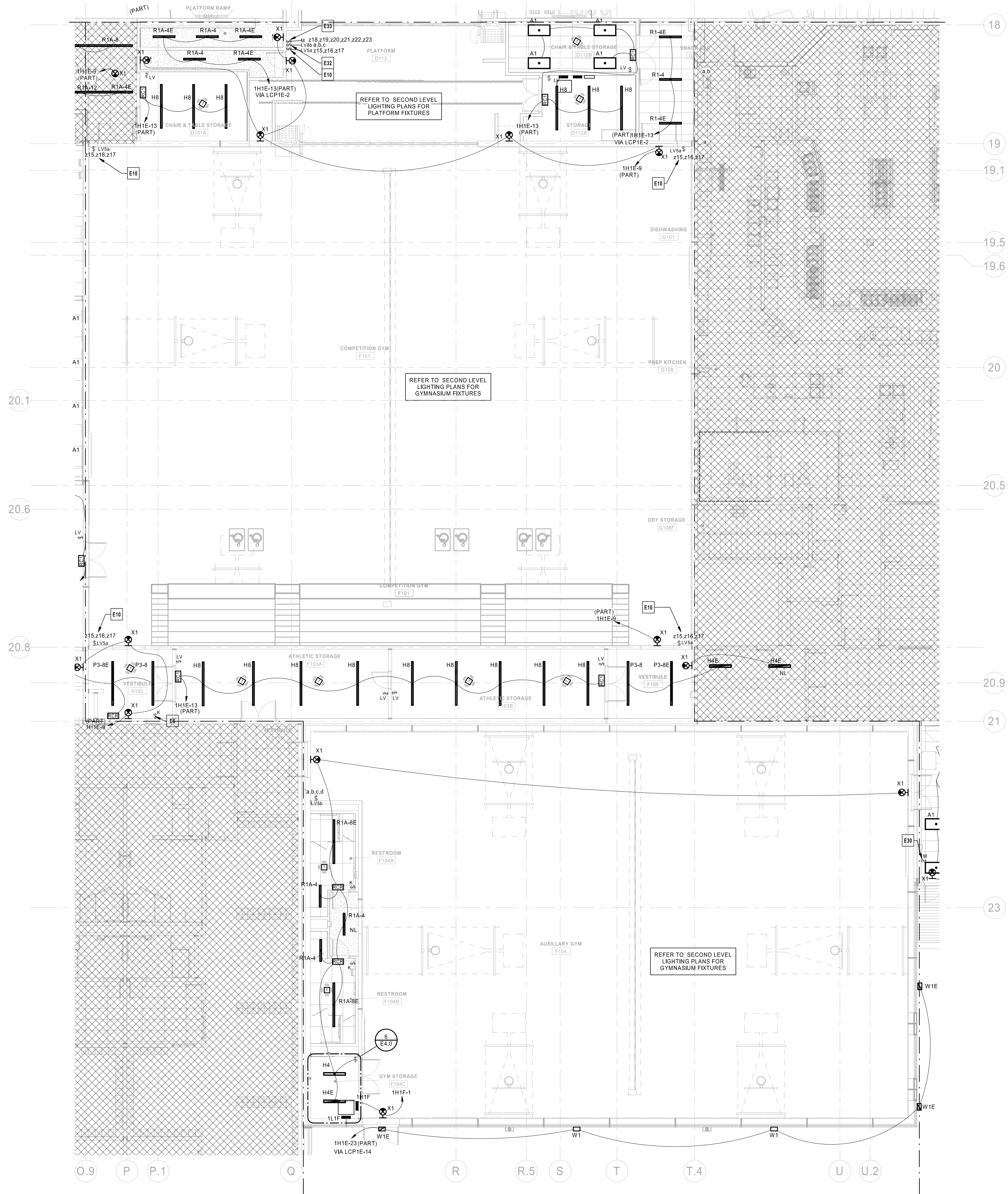


1 LIGHTING FIRST LEVEL RCP - AREA E
1/8" = 1'-0"

- LIGHTING CONTROLS INTENT:**
- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 - FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 - INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 - EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

- ELECTRICAL PLAN NOTES:**
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
 - E6 KEYSWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND LEVEL 1 & 2 ADJACENT STAIRWELL E1 G06.
 - E8 LOCKER ROOM KEYSWITCHES AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM AND RESTROOM.

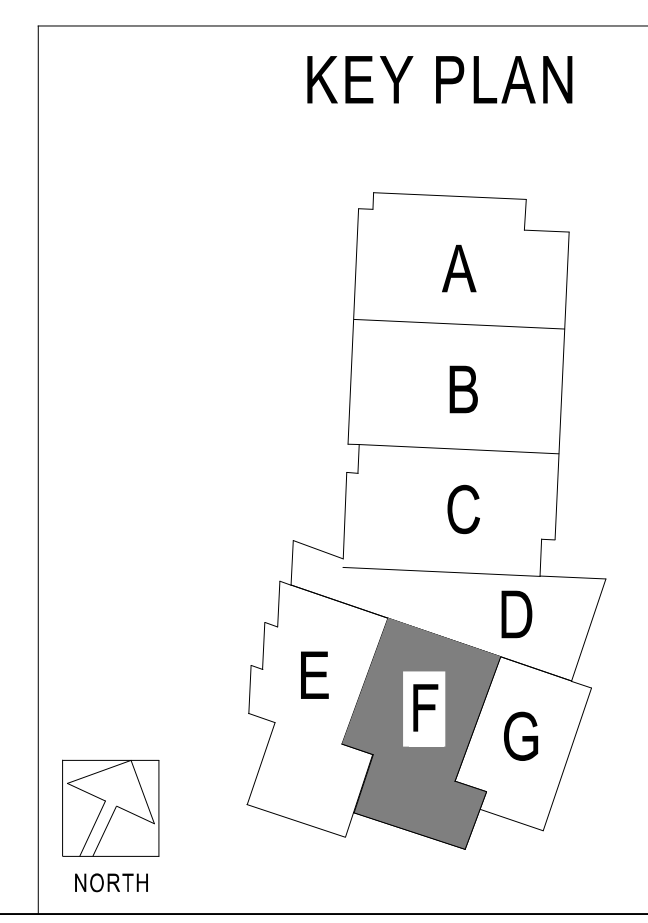


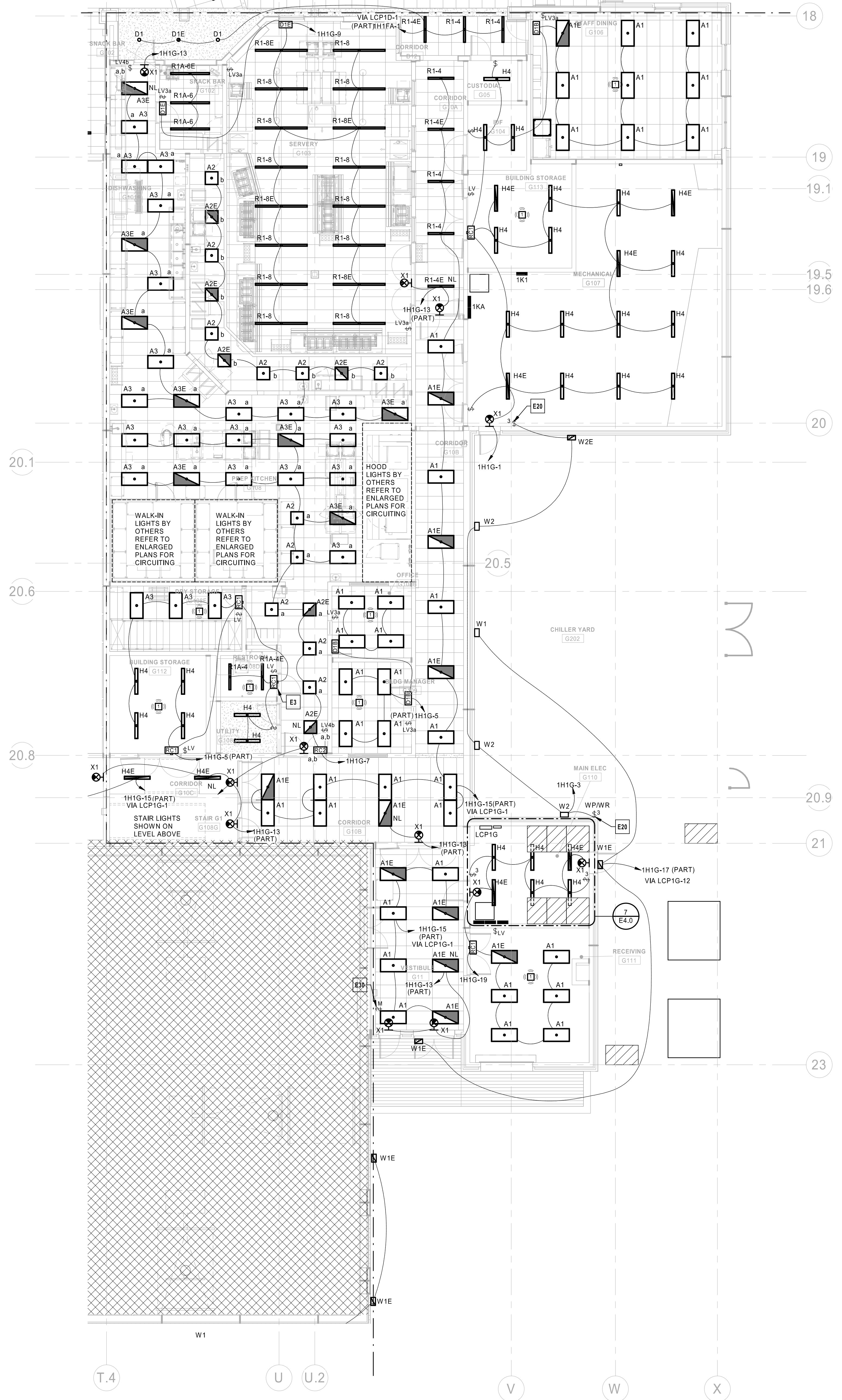


1 LIGHTING FIRST LEVEL RCP - AREA F
1/8" = 1'-0"

- LIGHTING CONTROLS INTENT:**
- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 - FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 - INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 - EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

- ELECTRICAL PLAN NOTES:**
- E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND LEVEL 1 & 2 ADJACENT STARWELL E1 006.
 - E10 LOW VOLTAGE LIGHT SWITCHES FOR COMPETITION GYM F101 TO PROVIDE ON/OFF AND DIMMING FUNCTIONALITY FOR GYMNASIUM LIGHT FIXTURES. LIGHT SWITCH TO INTERFACE WITH LIGHTING CONTROL PANEL LCP1E LOCATED IN ELECTRICAL ROOM E119. CIRCUITS FOR GYMNASIUM LIGHT FIXTURES TO BE ROUTED THROUGH DIMMING MODULES IN LIGHTING CONTROL PANEL LCP1E AS SHOWN.
 - E30 PROPOSED LOCATION FOR MASTER LIGHTING CONTROL INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E32 STAGE AREA LIGHTING CONTROL SWITCH SHOWN ON E1.1F. LIGHTING AND LIGHTING CONTROLLER SHOWN ON E1.2F.
 - E33 COMMONS D101 LIGHTING TO BE ROUTED THROUGH NETWORKED LIGHTING CONTROL PANEL LCP1D. LIGHTING OPERATION IS TO BE CONTROLLED VIA TIME SWITCH CONTROLS AND MASTER LIGHTING CONTROL INTERFACES. PROVIDE AN ADDITIONAL INTERFACE FOR JUST THE COMMONS LIGHTING LOCATED ON PLATFORM D12.



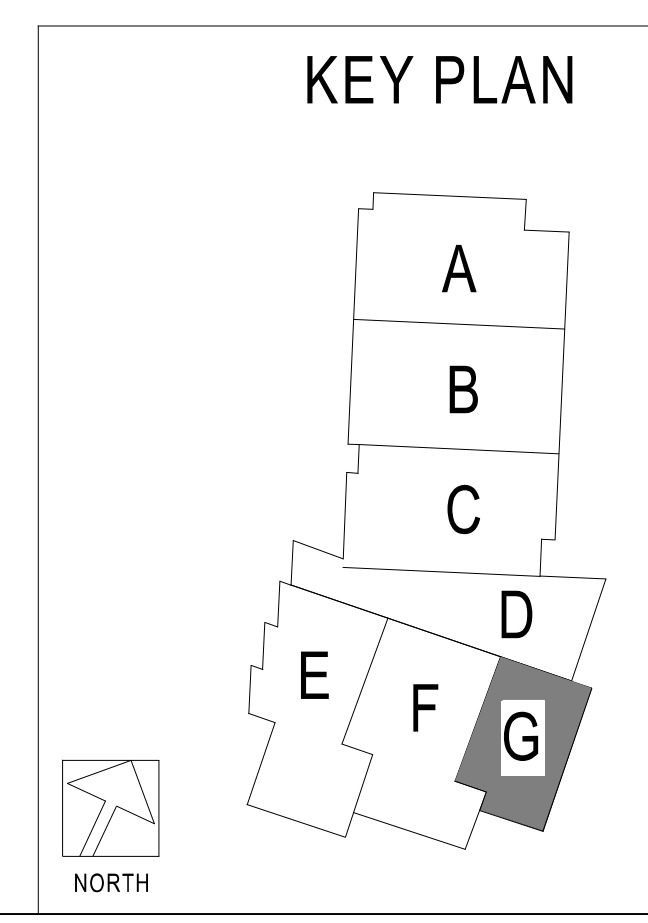


① LIGHTING FIRST LEVEL RCP - AREA G
1/8" = 1'-0"

- LIGHTING CONTROLS INTENT:**
1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUITS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

- FOOD SERVICE LIGHTING GENERAL NOTES:**
1. ALL LIGHT FIXTURES IN FOOD STORAGE AREAS, OVER OPEN FOOD AREAS AND IN FOOD PREP AREAS SHALL BE LED TYPE OR PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER FINAL SET-UP IS COMPLETE. LIGHT FIXTURES IN FOOD PROCESSING AREAS SHALL BE EASILY CLEANABLE AND SUITABLE FOR THE LOCATION. USE PRODUCTS WITH THE APPROPRIATE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION IF REQUIRED BY THE AHJ.
 2. COORDINATE EXACT LIGHT FIXTURE LOCATIONS IN WALK-IN COOLERS AND FREEZERS WITH REFRIGERATION COILS AND OTHER TRADES.
 3. LIGHTING UNDER HOODS AND IN WALK-IN COOLERS IS BY EQUIPMENT MANUFACTURER. PROVIDE ELECTRICAL CIRCUIT AND CONNECTION. COORDINATE ROUGH-IN REQUIREMENTS WITH FOOD SERVICE PLANS EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

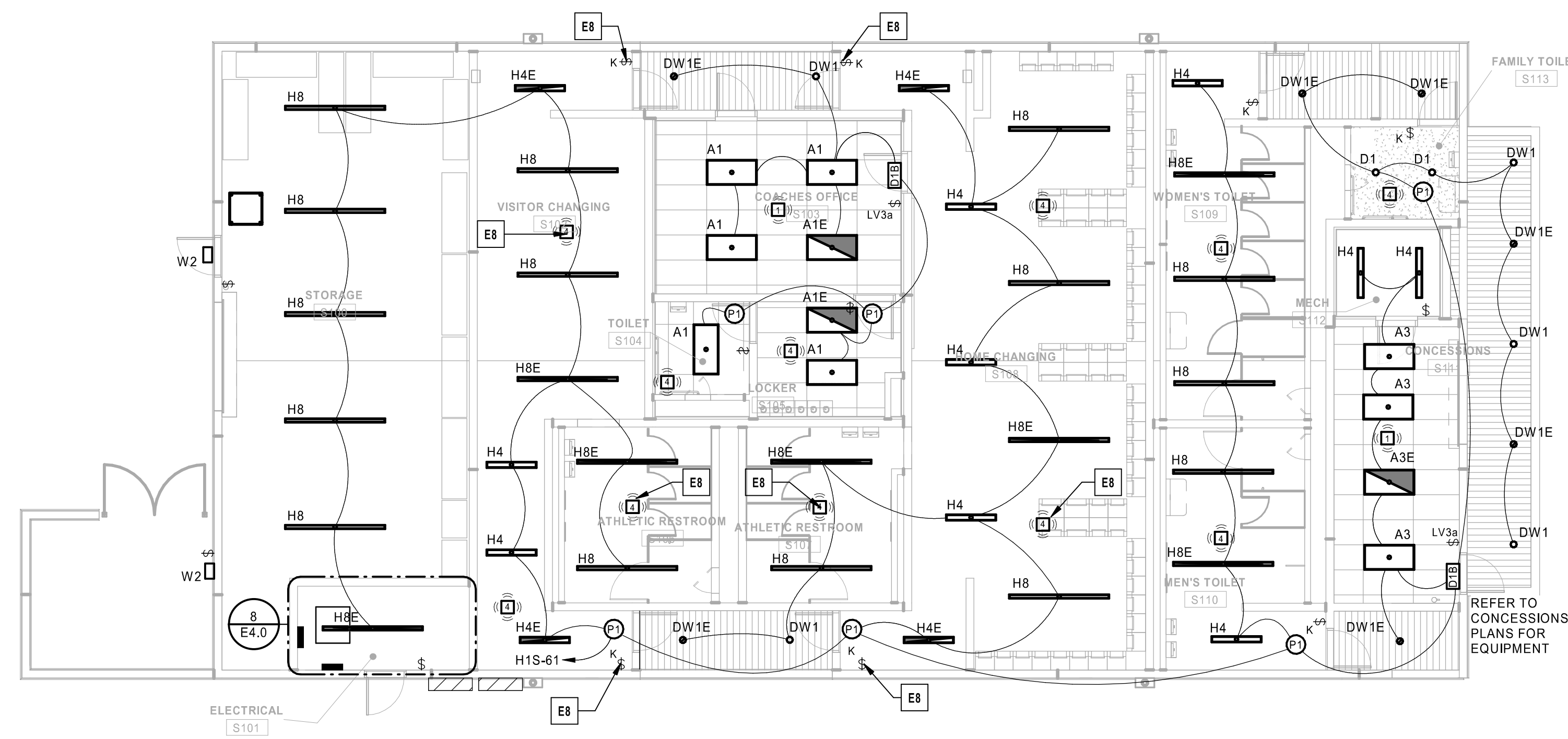
- ELECTRICAL PLAN NOTES:**
- E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.
 - E20 EXTERIOR BUILDING MOUNTED CHILLER YARD SERVICE LIGHTS TO BE CONTROLLED VIA 20 LINE VOLTAGE 3-WAY SWITCHES TO ALLOW FOR SERVICING OF EQUIPMENT WITH IN THE CHILLER YARD. PROVIDE LABEL FOR LIGHT SWITCHES INDICATING SWITCHES INTENDED USE.
 - E30 PROPOSED LOCATION FOR MASTER LIGHTING CONTROL INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.



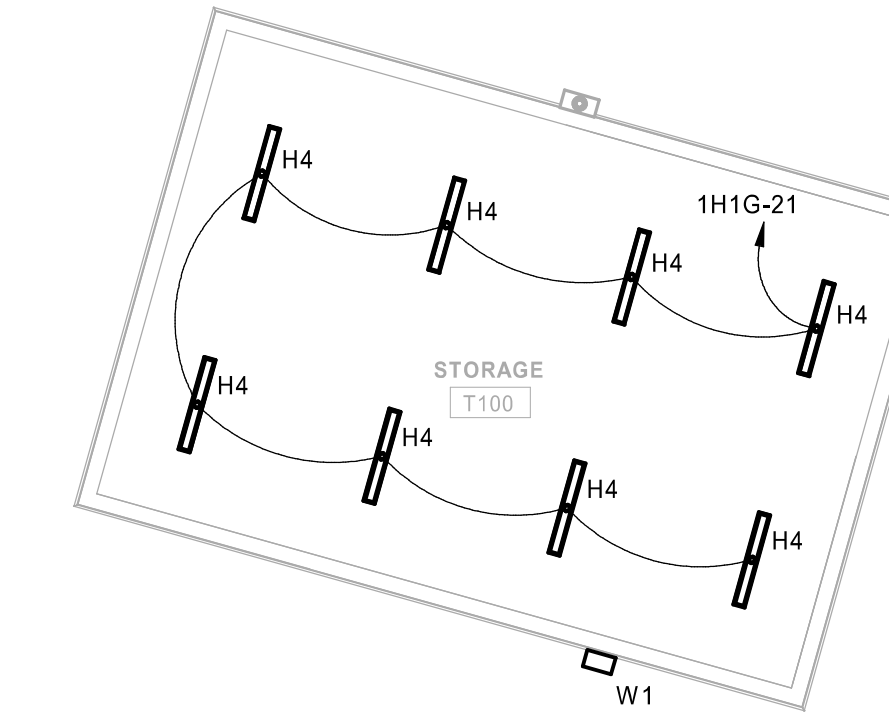
EQUIP CONN. - LVL1 - AREA S

MARK	LOCATION	PANEL	CIRCUIT	NOTES
------	----------	-------	---------	-------

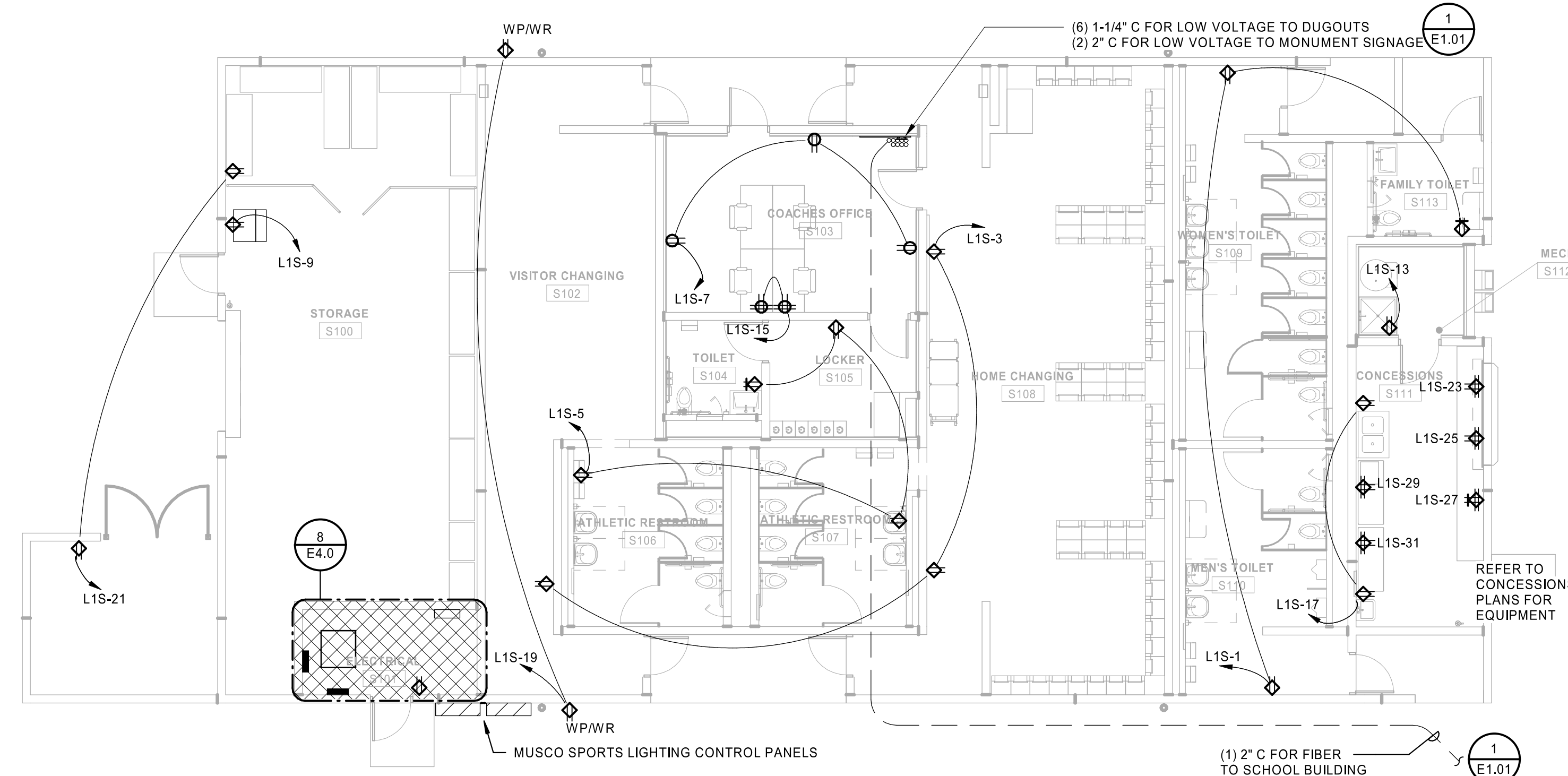
ELECTRICAL PLAN NOTES:
 E8 LOCKER ROOM KEYED SWITCHES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM AND RESTROOM.



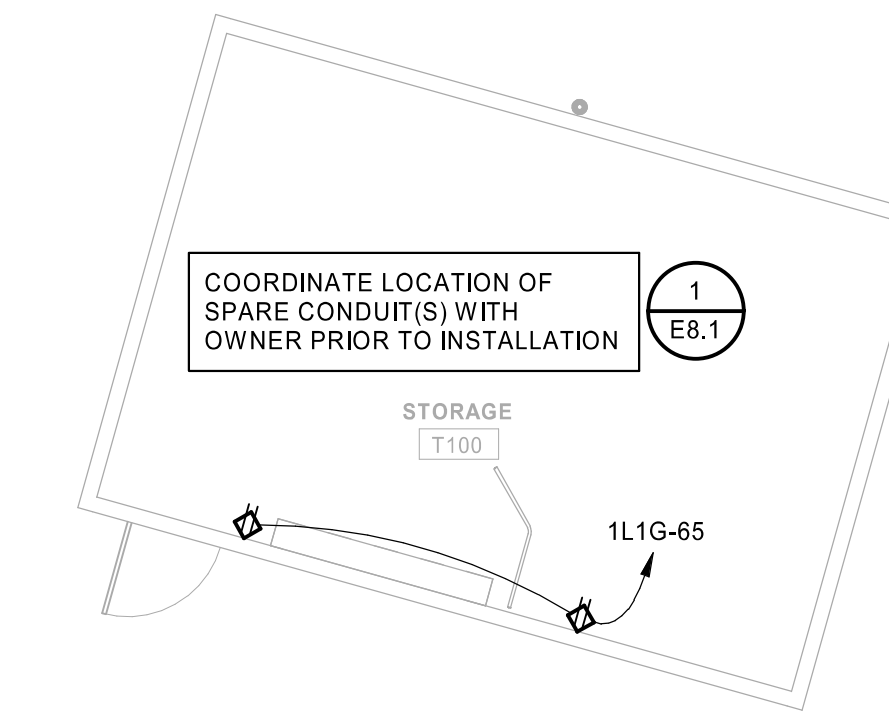
1 LIGHTING FIRST LEVEL RCP - AREA S
 1/8" = 1'-0"



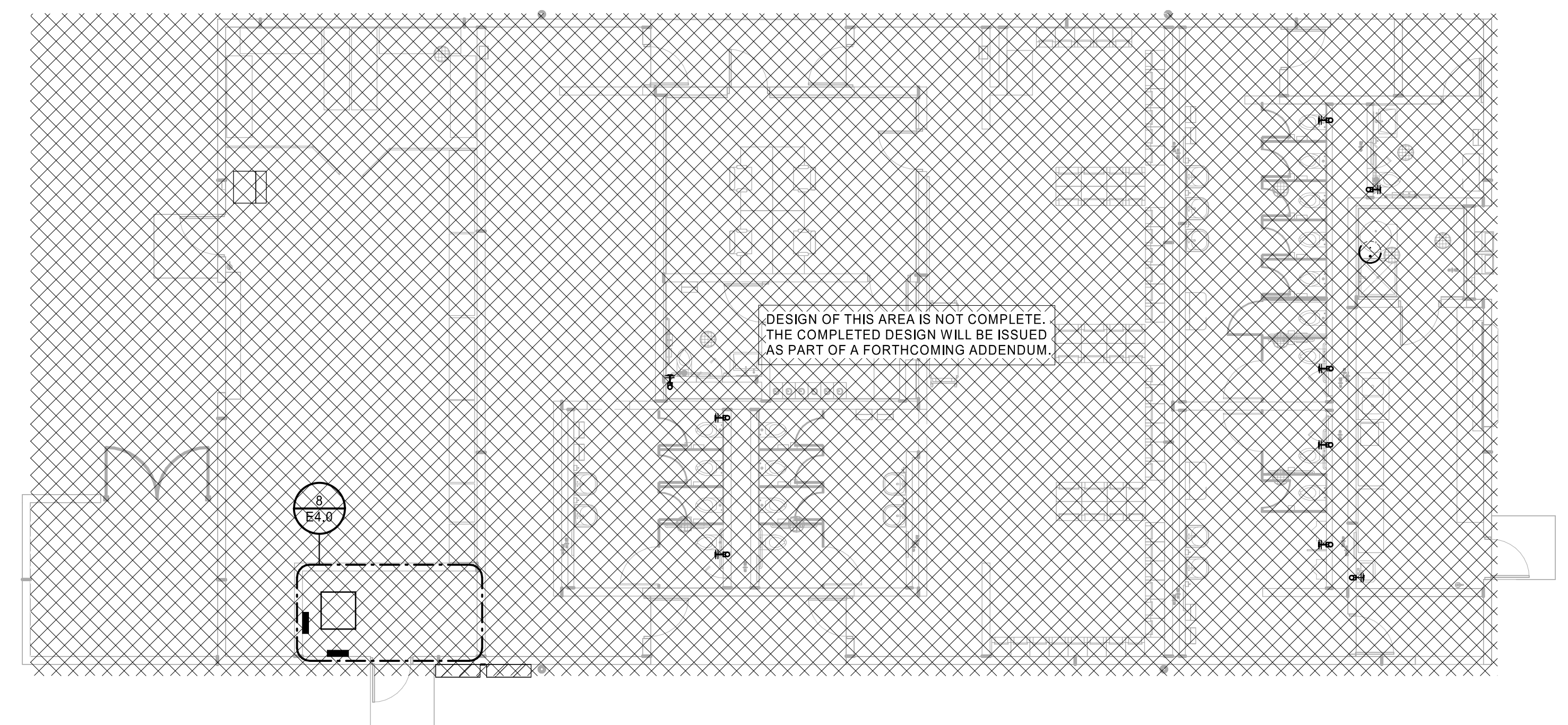
2 LIGHTING FIRST LEVEL RCP - AREA T
 1/8" = 1'-0"



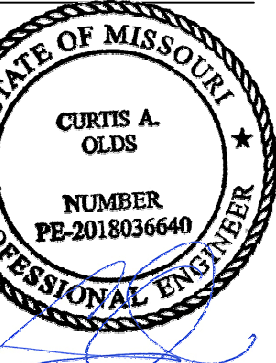
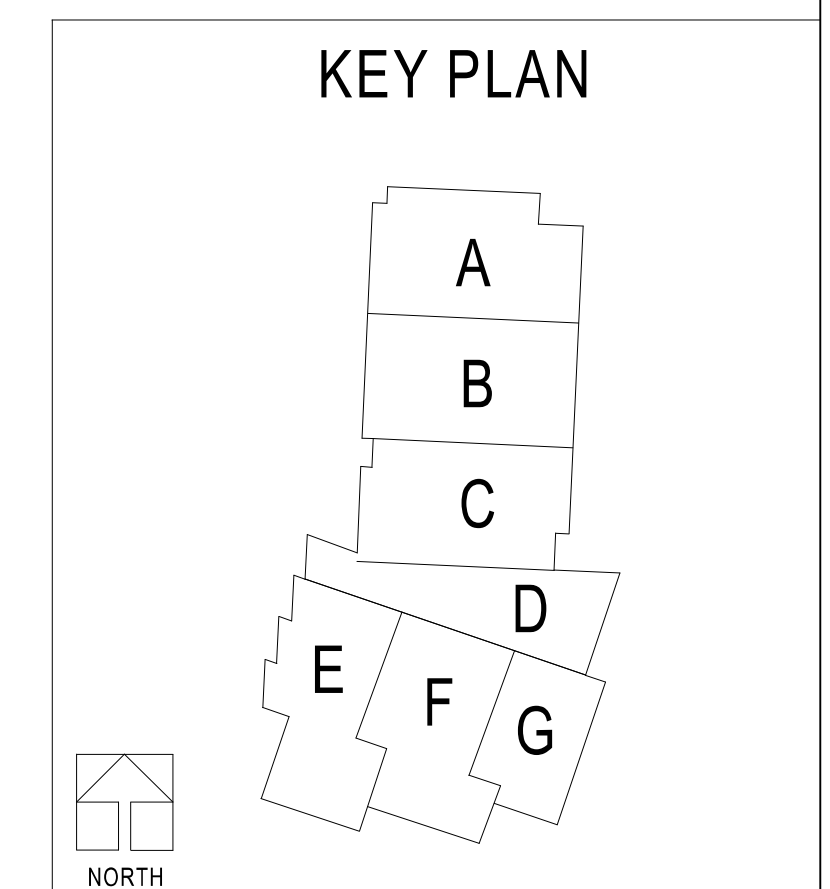
3 POWER FIRST LEVEL PLAN - AREA S
 1/8" = 1'-0"



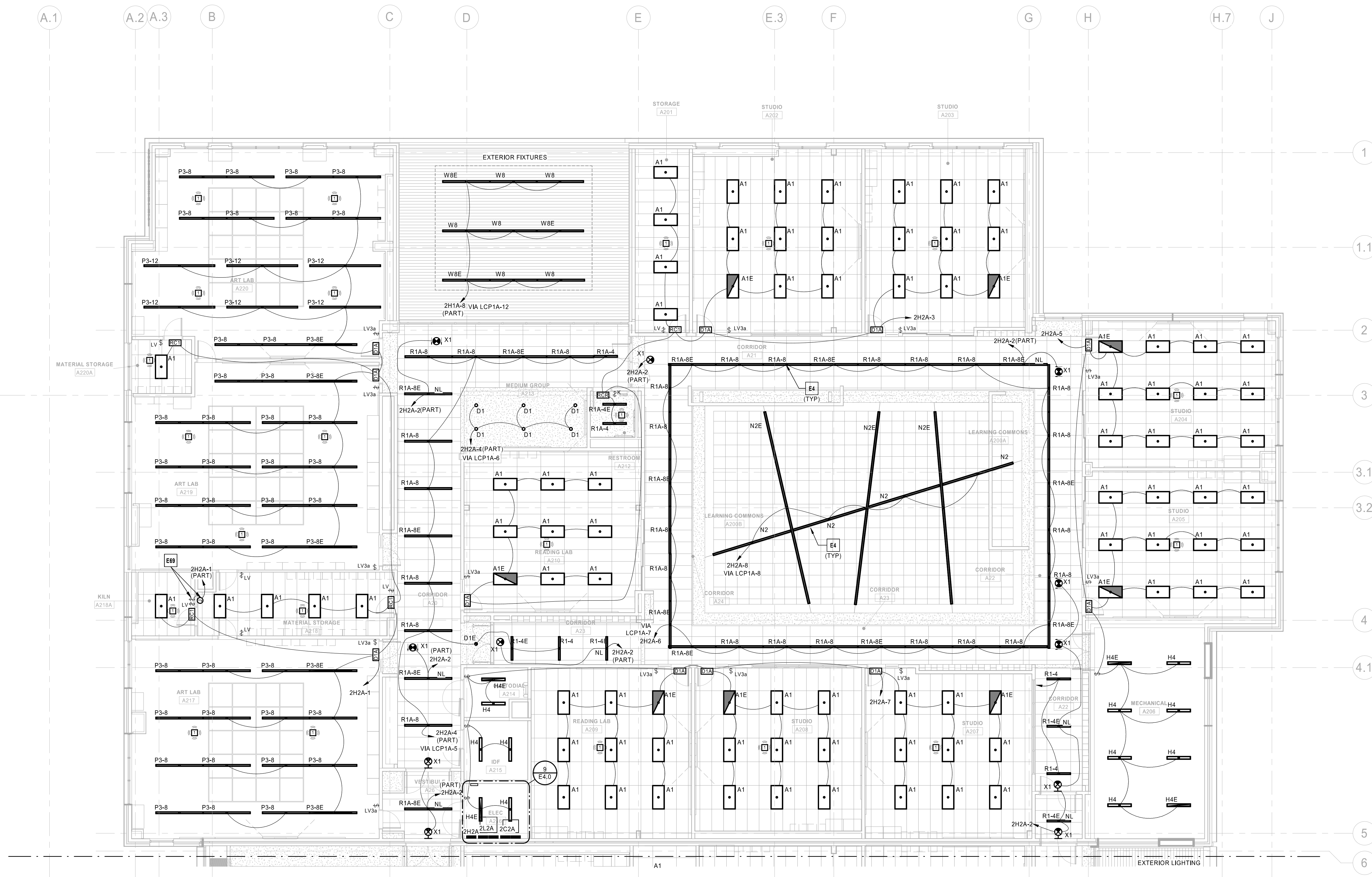
4 POWER FIRST LEVEL PLAN - AREA T
 1/8" = 1'-0"



5 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA S
 1/8" = 1'-0"



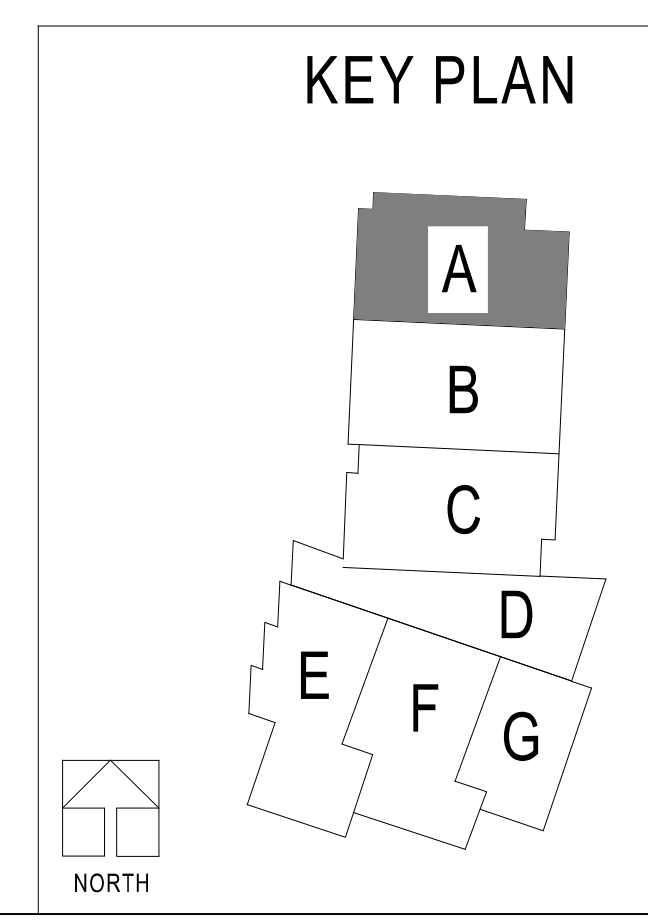
Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640



① LIGHTING SECOND LEVEL RCP - AREA A
1/8" = 1'-0"

- LIGHTING CONTROLS INTENT:**
- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 - FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 - INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 - EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

- ELECTRICAL PLAN NOTES:**
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
 - E69 PROVIDE ROOM IN USE SIGNAGE AND CONTROLS. COORDINATE EXACT LOCATION AND MANUFACTURER WITH ARCHITECT. COORDINATE REQUIREMENTS WITH SELECTED MANUFACTURER.



LIGHTING CONTROLS INTENT:

- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
- INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
- EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

ELECTRICAL PLAN NOTES:

- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

HENDERSON ENGINEERS
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 TEL: 816.251.4300
 WWW.HENDERSONENGINEERS.COM
 M.O. CORPORATE NO. E-5680
 EXP. 12/31/2020

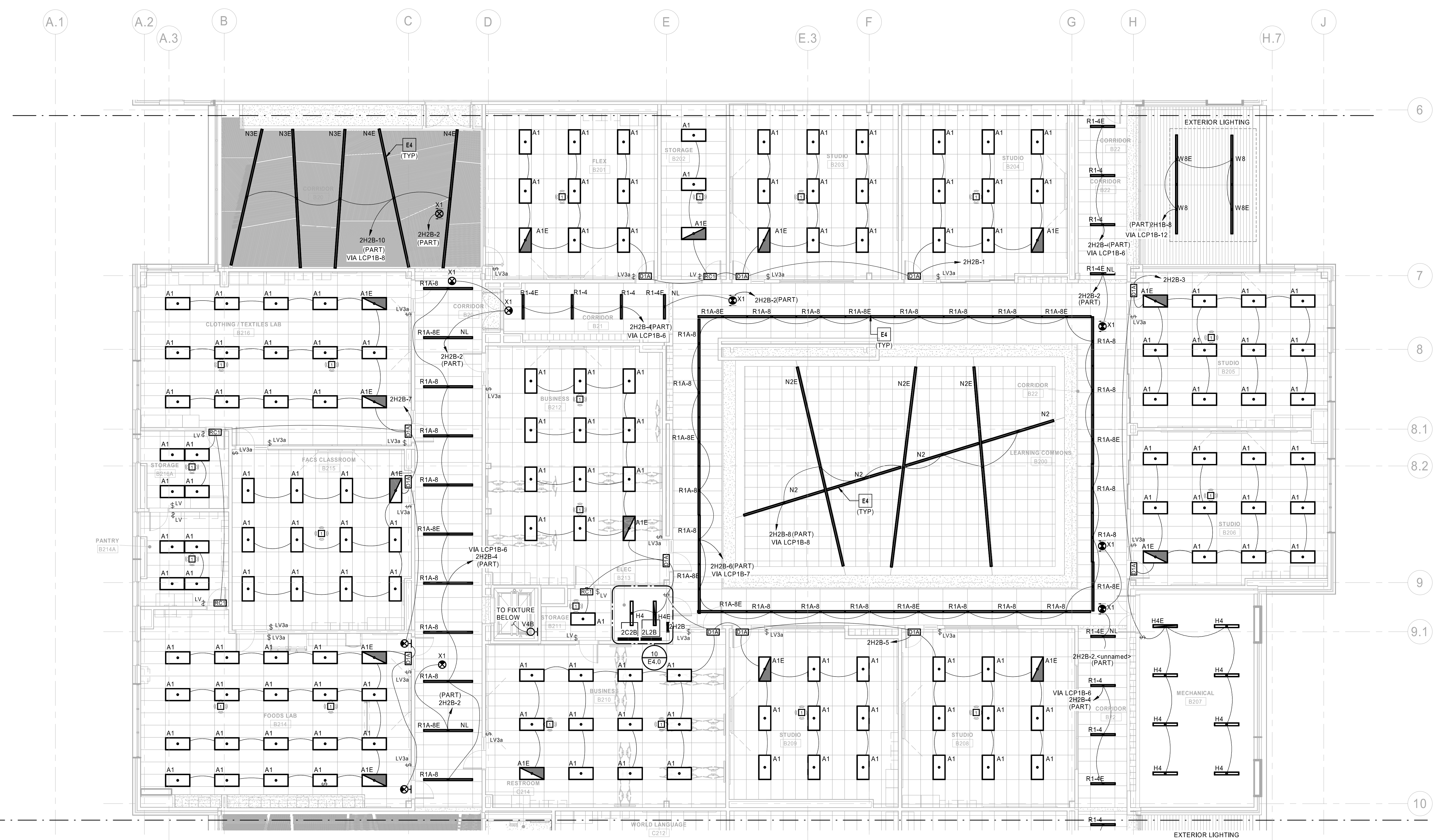
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

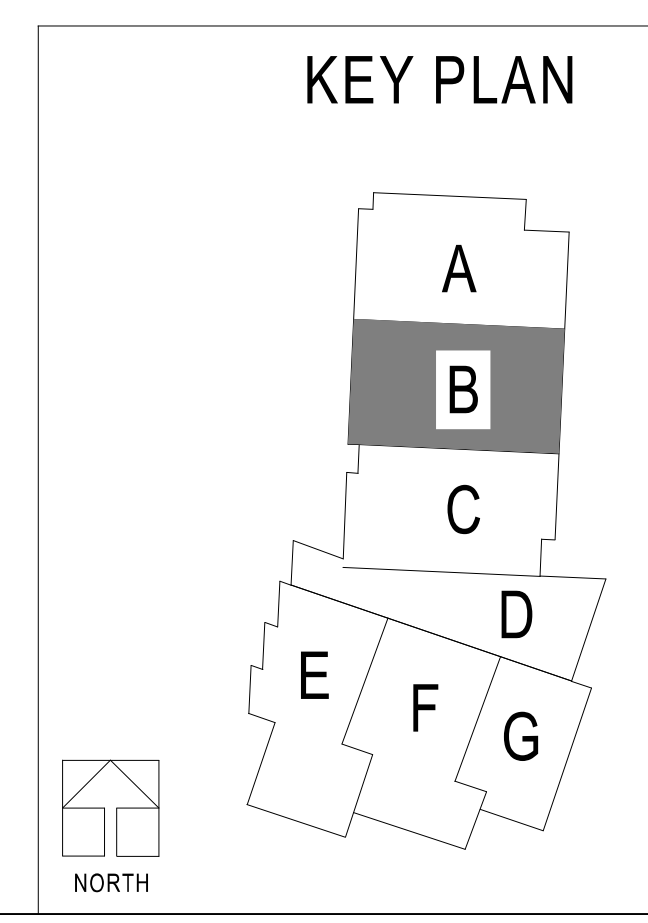
13-20102-00

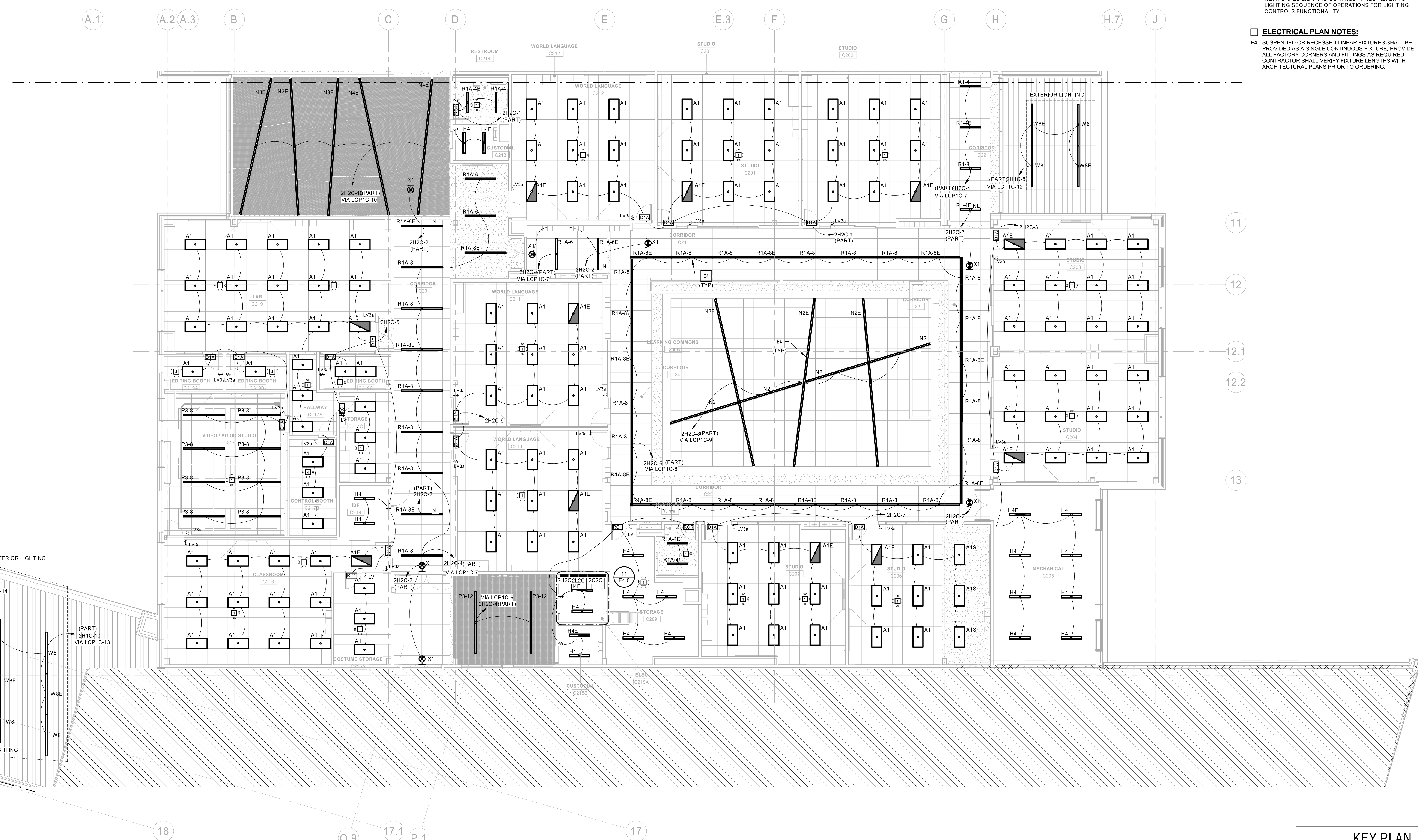
LIGHTING
 SECOND LEVEL
 RCP - AREA B

E1.2B



① LIGHTING SECOND LEVEL RCP - AREA B
 1/8" = 1'-0"

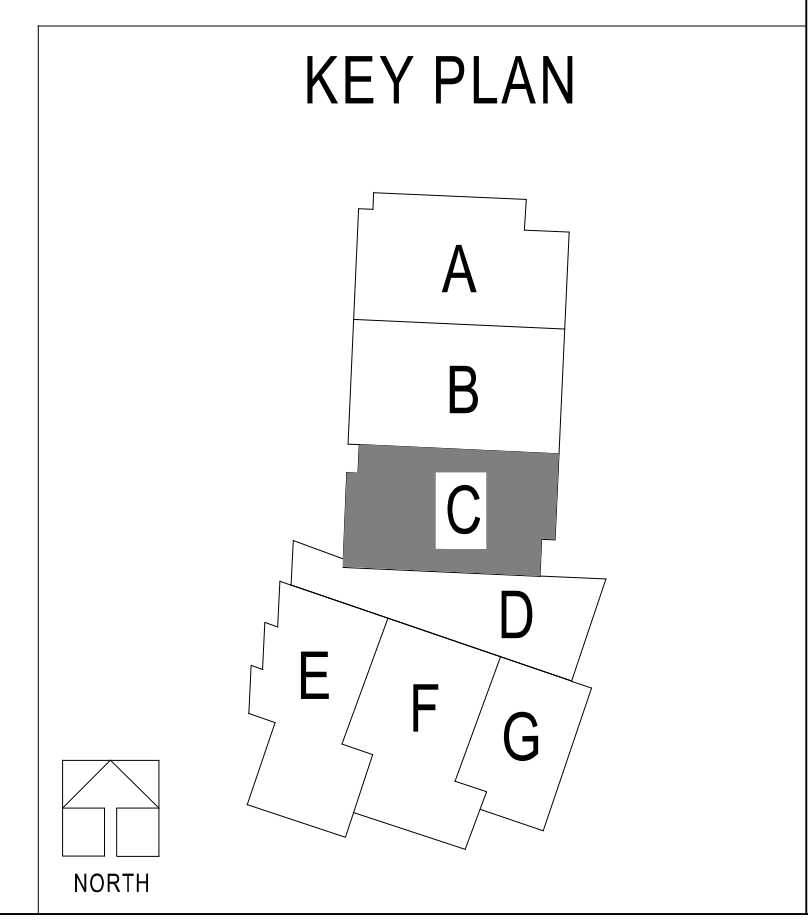




- LIGHTING CONTROLS INTENT:**
- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 - FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 - INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 - EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

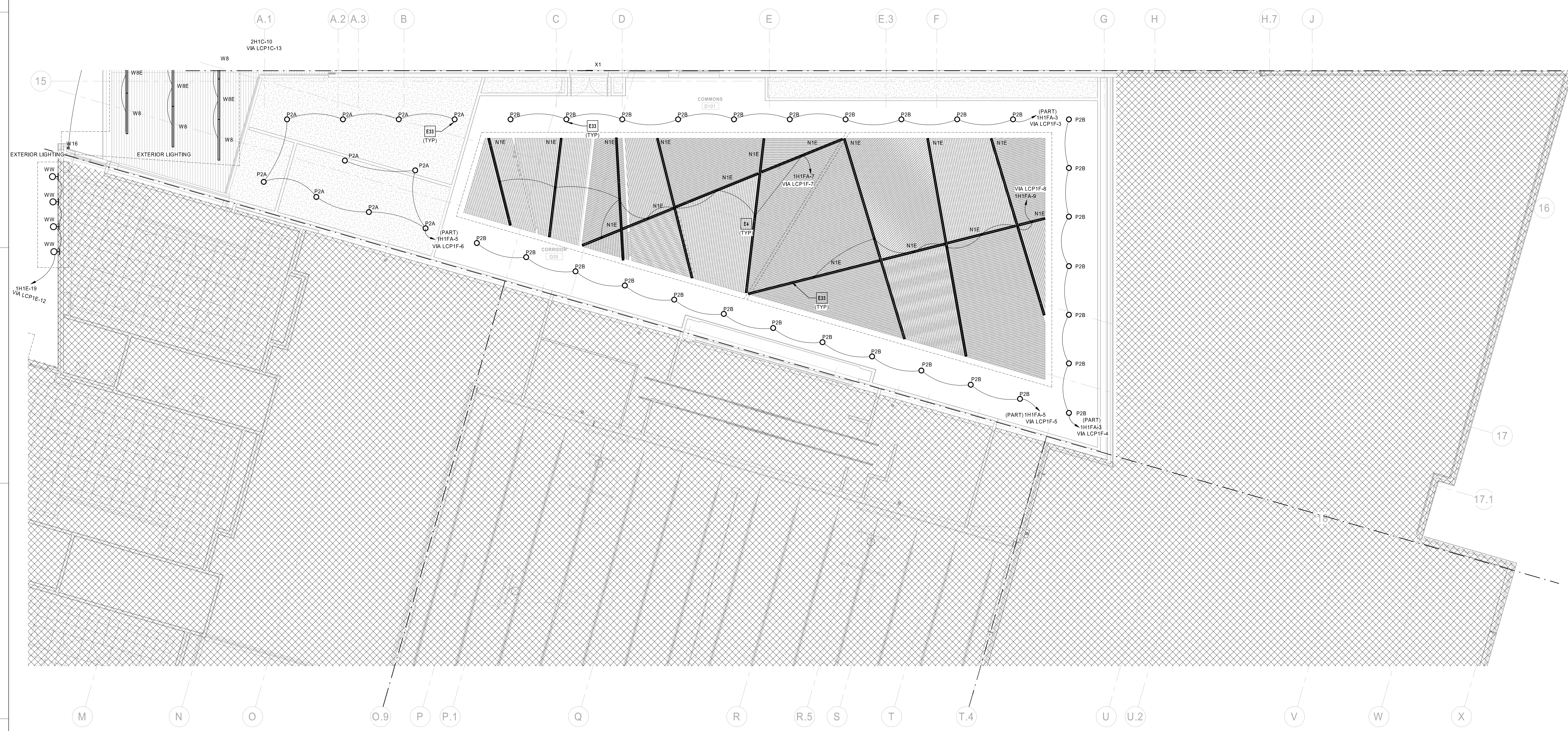
- ELECTRICAL PLAN NOTES:**
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.

1 LIGHTING SECOND LEVEL RCP - AREA C
 1/8" = 1'-0"

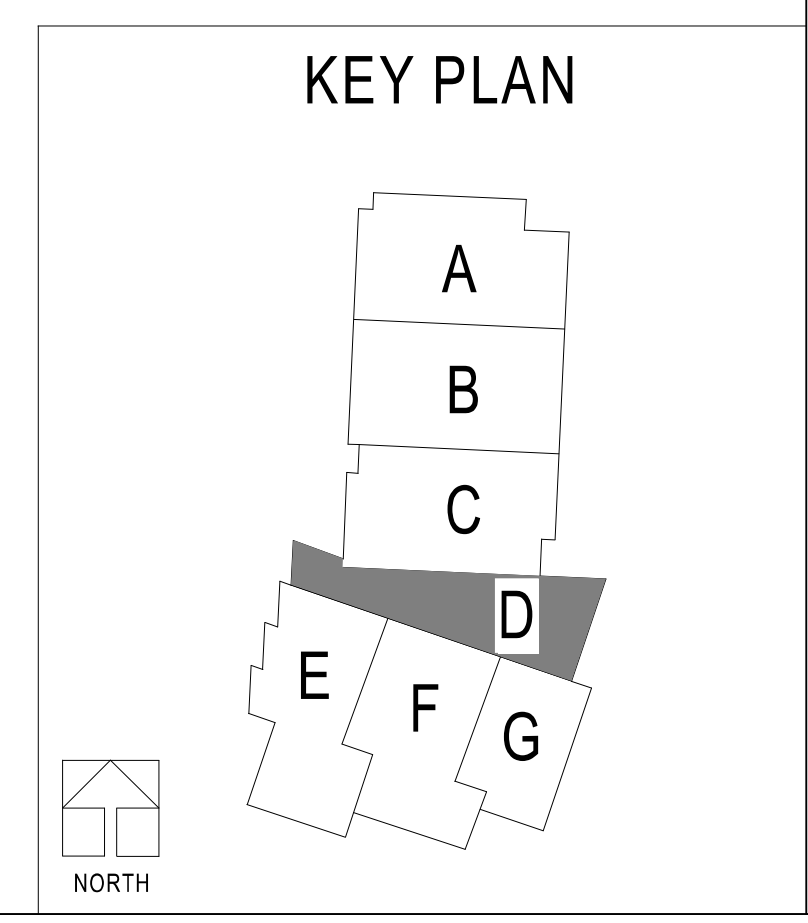


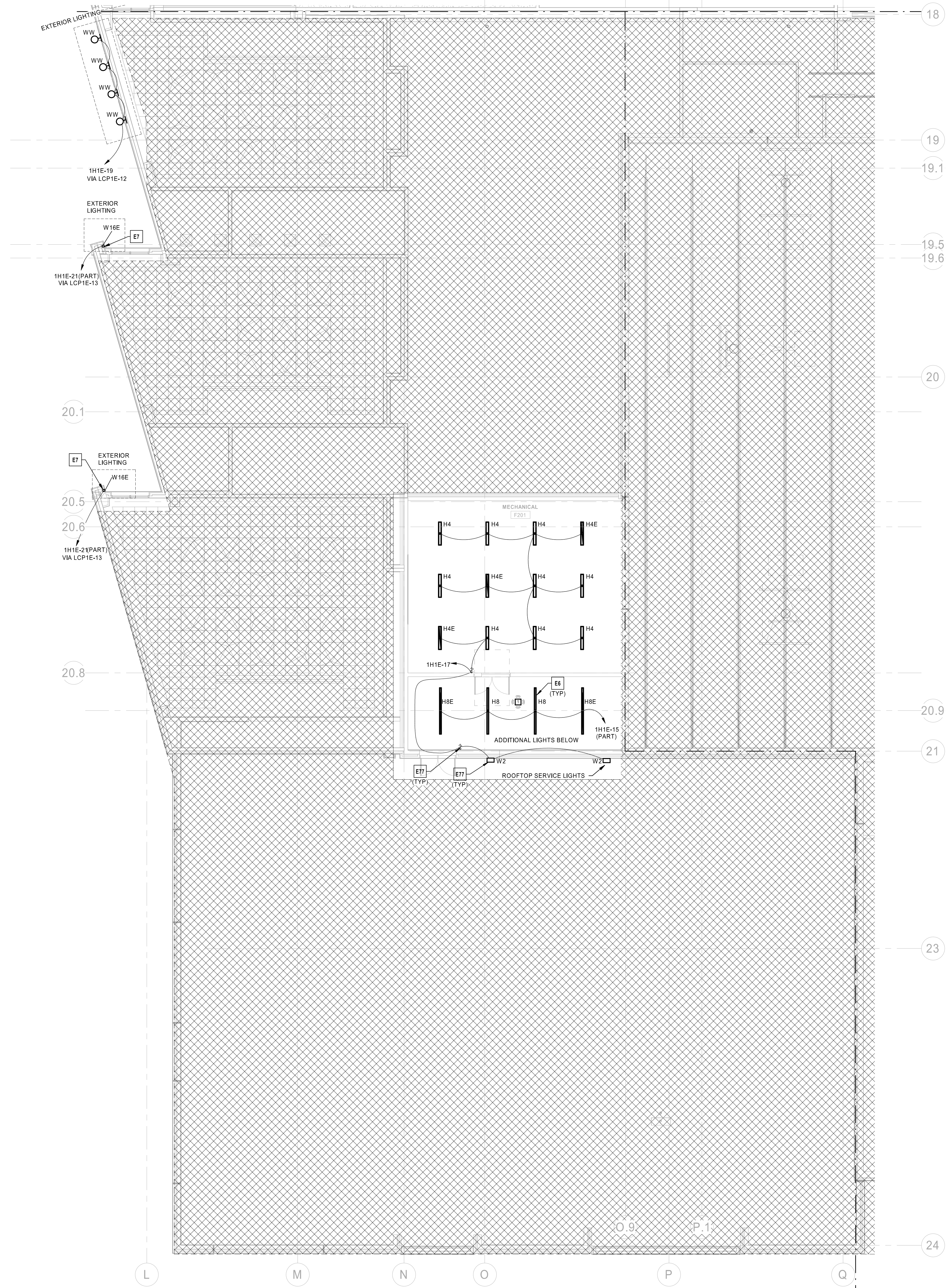
- ELECTRICAL PLAN NOTES:**
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
 - E33 COMMONS D101 LIGHTING TO BE ROUTED THROUGH NETWORKED LIGHTING CONTROL PANEL LCP1D. LIGHTING OPERATION IS TO BE CONTROLLED VIA TIME SWITCH CONTROLS AND MASTER LIGHTING CONTROL INTERFACE(S). PROVIDE AN ADDITIONAL INTERFACE FOR JUST THE COMMONS LIGHTING LOCATED ON PLATFORM D11Z.

- LIGHTING CONTROLS INTENT:**
1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 2. FIXTURES LABELED 'NL' (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.



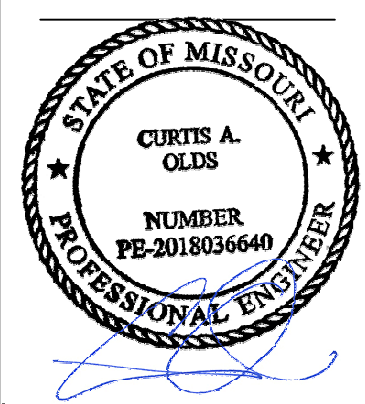
① LIGHTING SECOND LEVEL RCP - AREA D
 1/8" = 1'-0"





- LIGHTING CONTROLS INTENT:**
- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 - FIXTURES LABELED 'NL' (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 - INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 - EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

- ELECTRICAL PLAN NOTES:**
- E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND LEVEL 1 & 2 ADJACENT STAIRWELL E1 006.
 - E7 EXTERIOR LIGHT FIXTURE TO BE FED VIA REMOTE 277 TO 24V DIMMABLE LED DRIVER (KELVIX HLV86 OR EQUIVALENT) AND PROVIDED WITH REMOTE INVERTER (ASSURANCE EMERGENCY LIGHTING SH-125 OR EQUIVALENT) TO PROVIDE BATTERY BACKED EMERGENCY POWER. INVERTER AND LED DRIVER TO BE MOUNTED INSIDE BUILDING ABOVE ACCESSIBLE CEILING IN MUSIC CLASSROOMS.
 - E77 LIGHTING ON ROOFTOP TO BE LOCALLY CONTROLLED VIA SWITCH AND IS INTENDED TO PROVIDE ILLUMINATION FOR AFTER HOURS SERVICING OF ELECTRICAL EQUIPMENT.

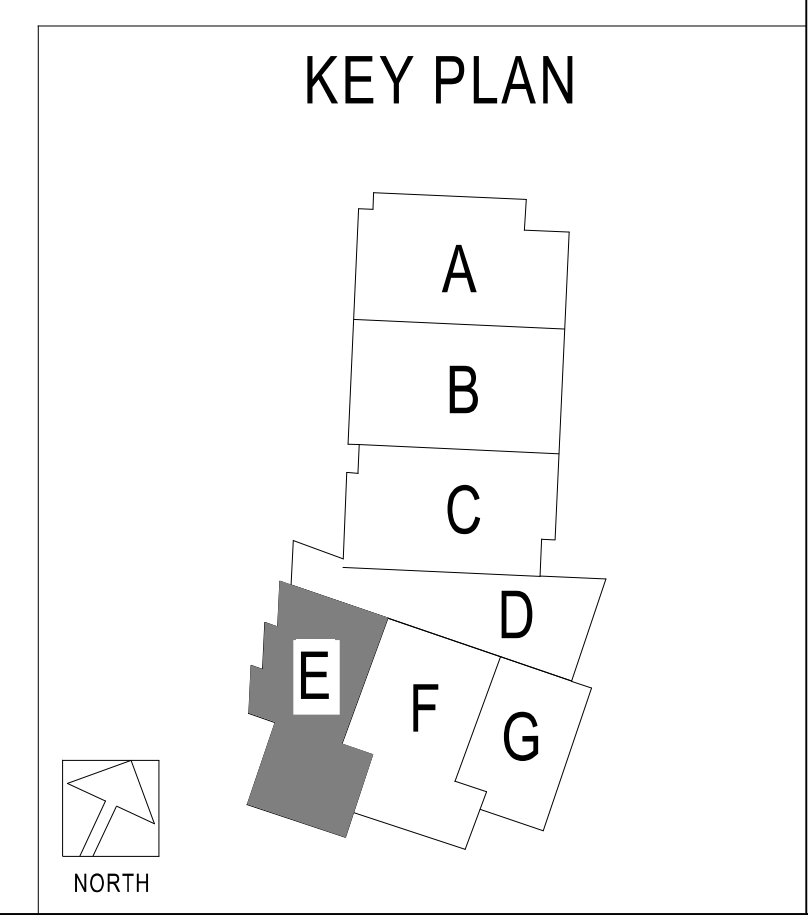


Oct 8 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

HENDERSON
ENGINEERS
3045 LINDEN DRIVE SUITE 300
LEEDS, MISSOURI 64081
TEL: 816.732.8000
WWW.HENDERSONENGINEERS.COM
MISSOURI LICENSE # E-5680
EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

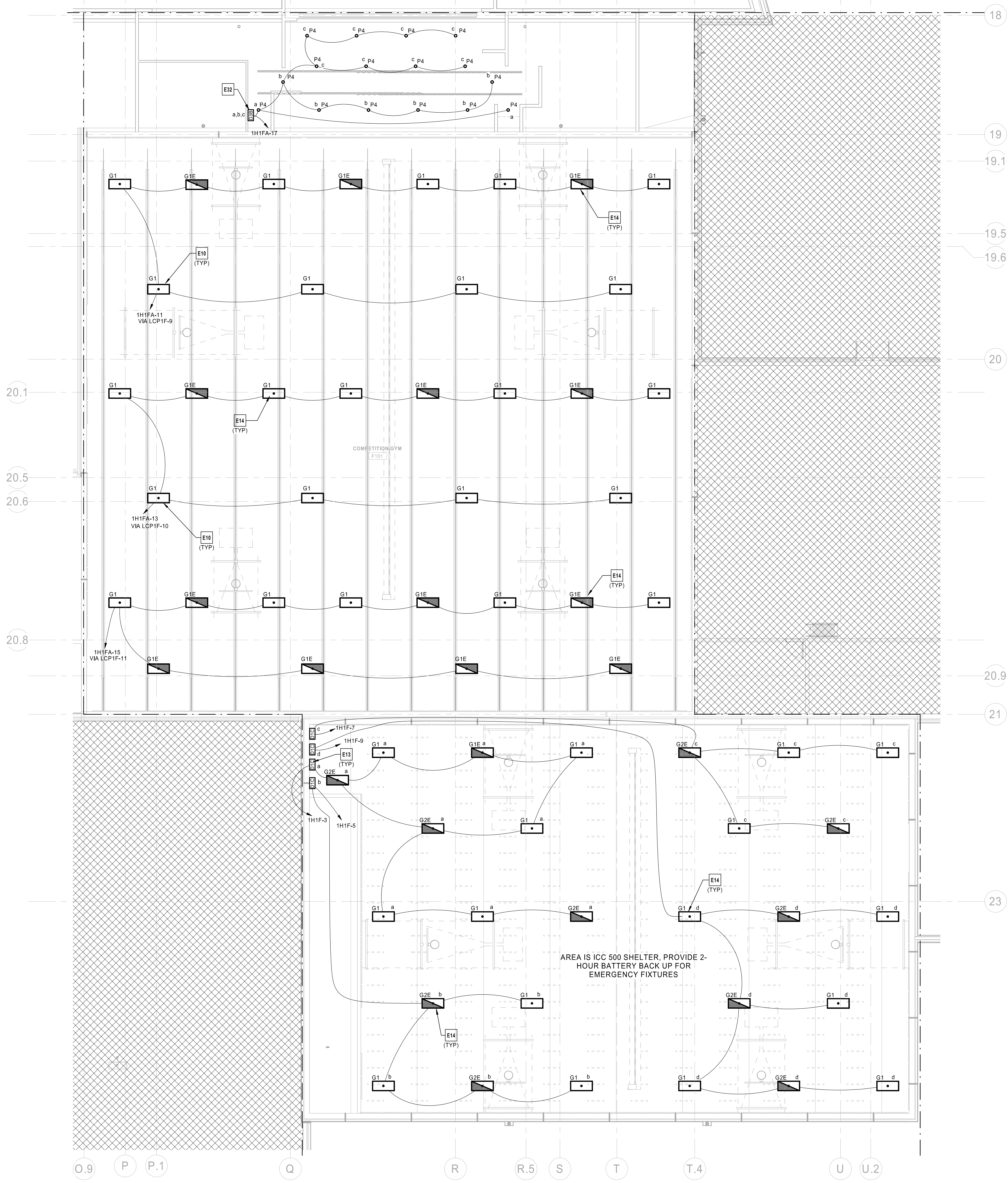
PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS



1 LIGHTING SECOND LEVEL RCP - AREA E
1/8" = 1'-0"

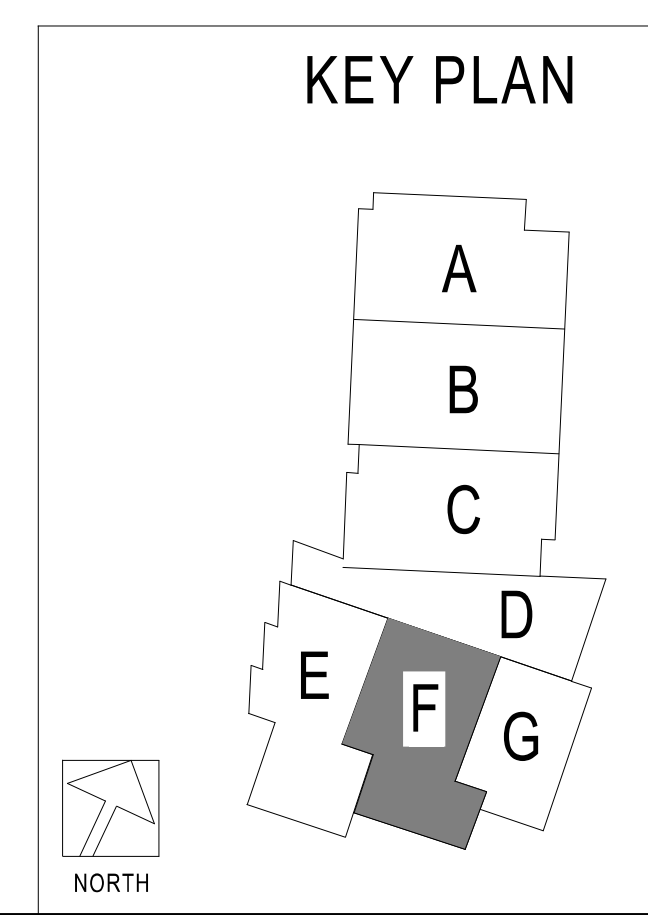
E1.2E

CURTIS A. OLDS

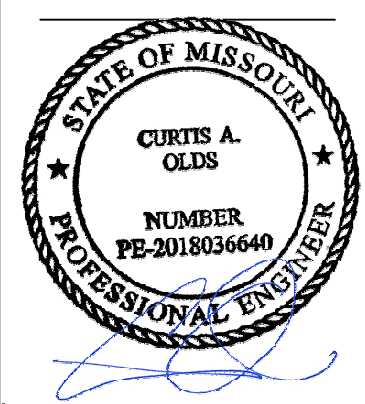


- LIGHTING CONTROLS INTENT:**
- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
 - FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
 - INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
 - EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

- ELECTRICAL PLAN NOTES:**
- E10 LOW VOLTAGE LIGHT SWITCHES FOR COMPETITION GYM F101 TO PROVIDE ON/OFF AND DIMMING FUNCTIONALITY FOR GYMNASIUM LIGHT FIXTURES. LIGHT SWITCH TO INTERFACE WITH LIGHTING CONTROL PANEL LCP1E LOCATED IN ELECTRICAL ROOM E119. CIRCUITS FOR GYMNASIUM LIGHT FIXTURES TO BE ROUTED THROUGH DIMMING MODULES IN LIGHTING CONTROL PANEL LCP1E AS SHOWN.
 - E13 ICC 500 SHELTER GYM LIGHTING CONTROLS SHOWN ON LEVEL 1. DIMMABLE ROOM CONTROLLERS ARE SHOWN ON LEVEL 2.
 - E14 COORDINATE EXACT LOCATION OF GYMNASIUM LIGHT FIXTURES WITH GYMNASIUM RELATED EQUIPMENT: BASKETBALL HOOPS, CURTAINS, SPEAKERS AND MECHANICAL DUCT WORK.
 - E32 STAGE AREA LIGHTING CONTROL SWITCH SHOWN ON E1.1F. LIGHTING AND LIGHTING CONTROLLER SHOWN ON E1.2F.



1 LIGHTING SECOND LEVEL RCP - AREA F
1/8" = 1'-0"



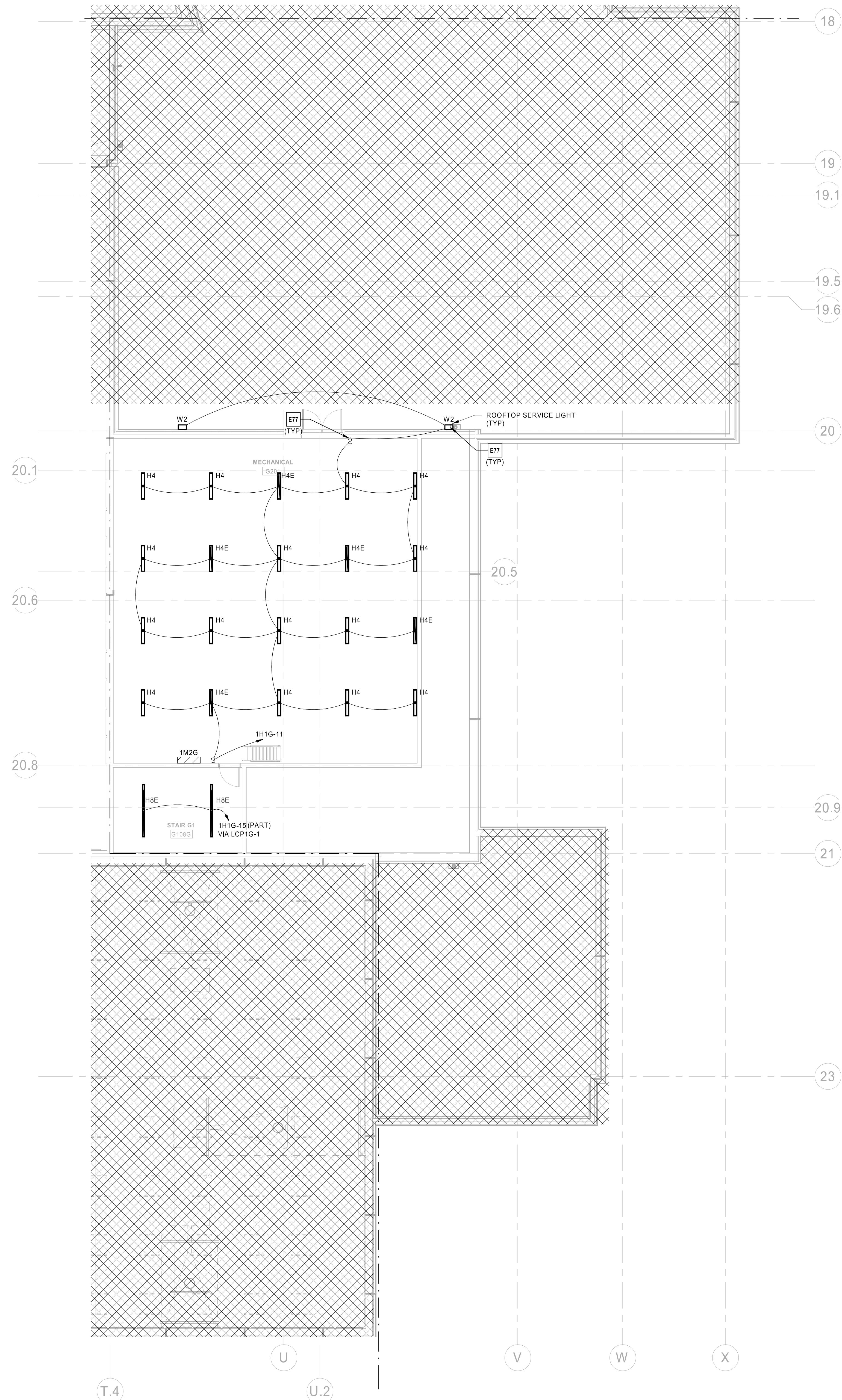
Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

LIGHTING CONTROLS INTENT:

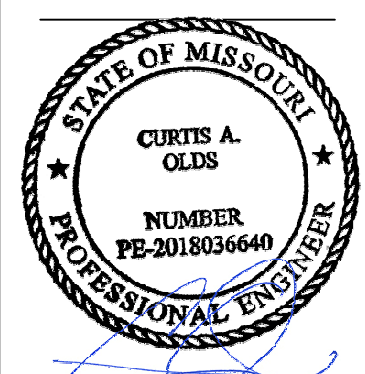
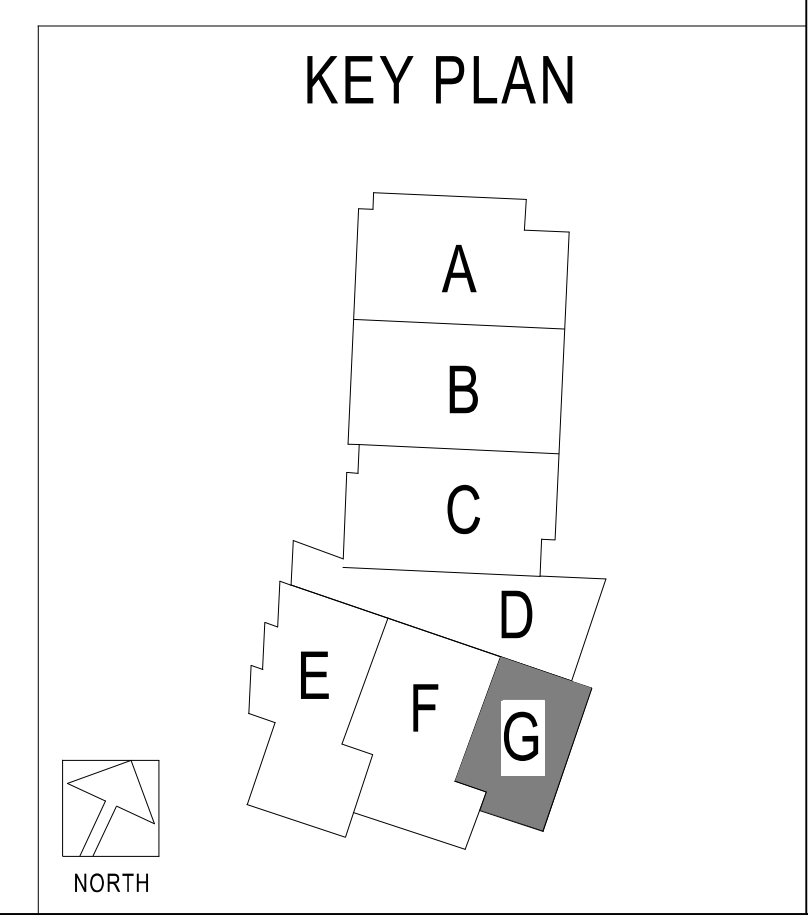
1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED 'NL' (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

ELECTRICAL PLAN NOTES:

- E77 LIGHTING ON ROOFTOP TO BE LOCALLY CONTROLLED VIA SWITCH AND IS INTENDED TO PROVIDE ILLUMINATION FOR AFTER HOURS SERVICING OF ELECTRICAL EQUIPMENT.



1 LIGHTING SECOND LEVEL RCP - AREA G
1/8" = 1'-0"



Oct 8 2020
CURTIS A. OLDS
LICENSE # PE-2018036640



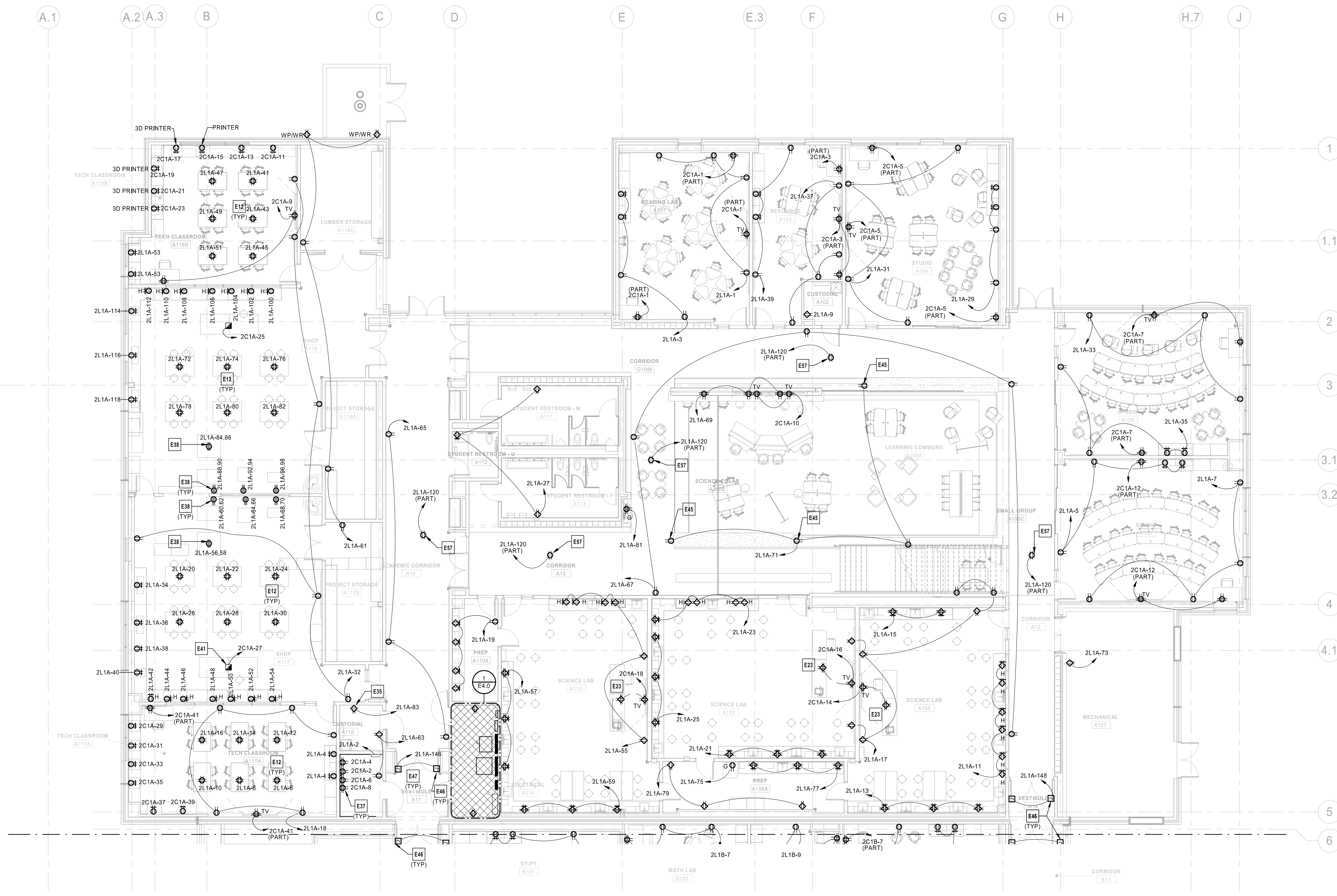
LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

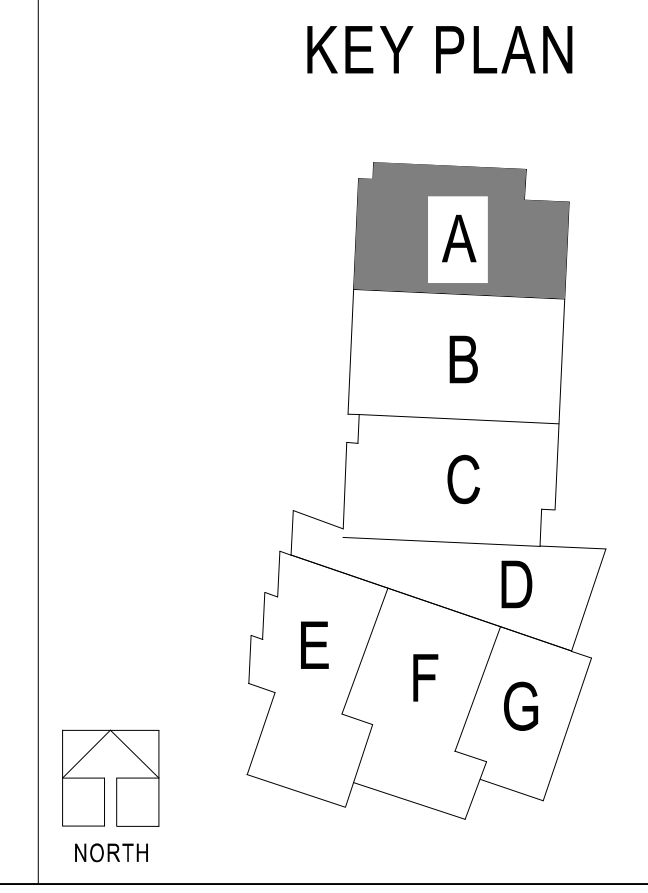
13-20102-00

LIGHTING
SECOND LEVEL
RCP - AREA G

E1.2G

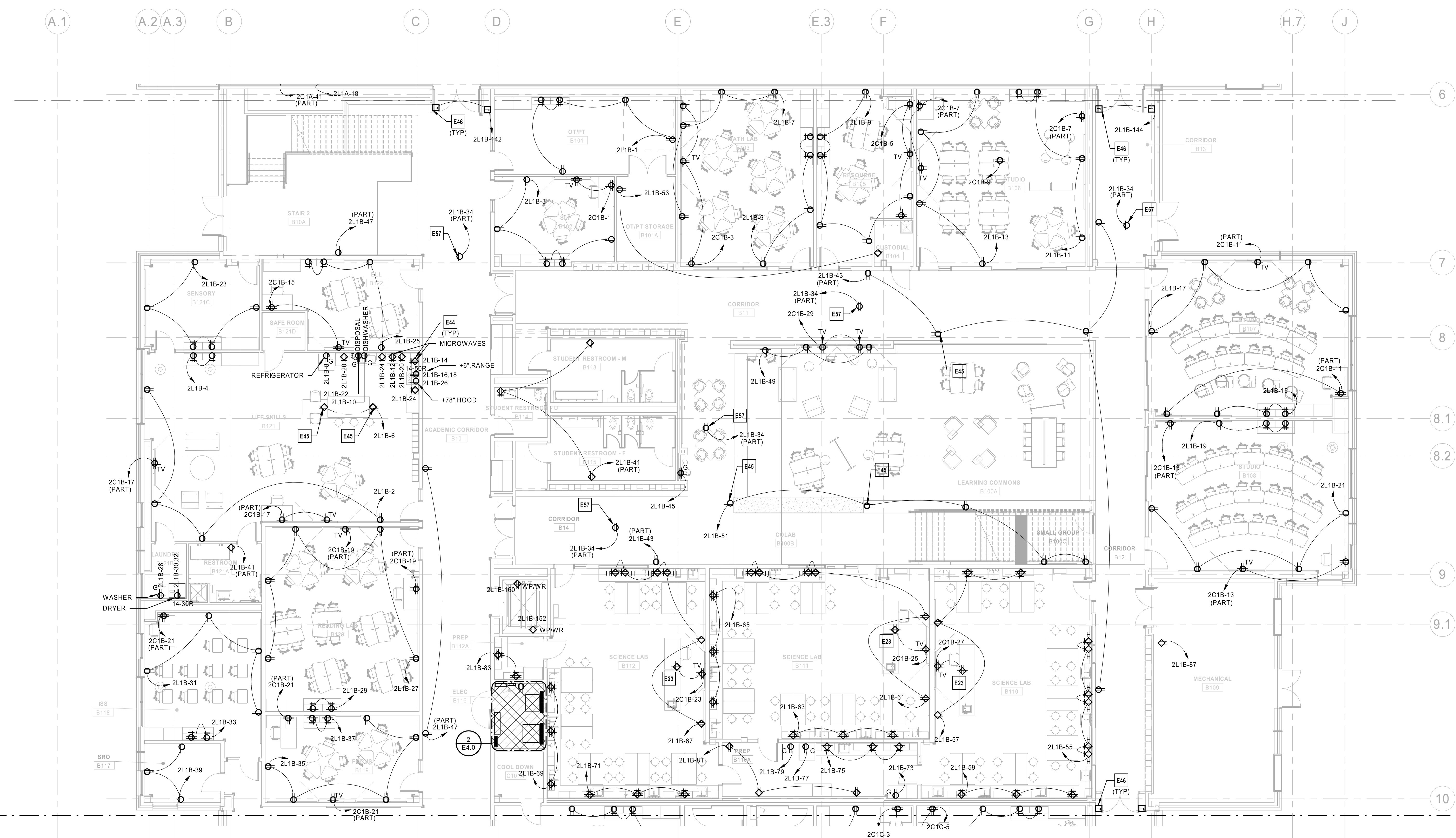


- ELECTRICAL PLAN NOTES:**
- E12 CORD REEL, FLEXIBLE CEILING MOUNT, BLACK HOUSING, BLACK CORD, TRIPLE TAP RECEPTACLE, NO GREATER THAN 10 LBS. 1/2", 15A, HUBBELL HBLCA0123TT OR APPROVED EQUIVALENT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.
 - E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.
 - E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.
 - E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.
 - E38 PRELIMINARY INFORMATION FOR SHOP FREESTANDING EQUIPMENT INDICATES 220V WILL BE NEEDED FOR EQUIPMENT. CONTRACTOR TO COORDINATE ALL ADDITIONAL INSTALLATION REQUIREMENTS FOR FREESTANDING SHOP EQUIPMENT INCLUDING BUT NOT LIMITED TO CIRCUIT BREAKER SIZE, CONDUCTOR SIZE, NUMBER OF CONDUCTORS, CONDUIT SIZE, J-BOX AND MUD RING SIZE, NEMA PLUG CONFIGURATION, CORD AND CORD DROP, REQUIREMENTS ROUGH-IN HEIGHT AND EXACT LOCATION(S).
 - E41 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) CONDUIT FOR DATA TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
 - E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.
 - E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

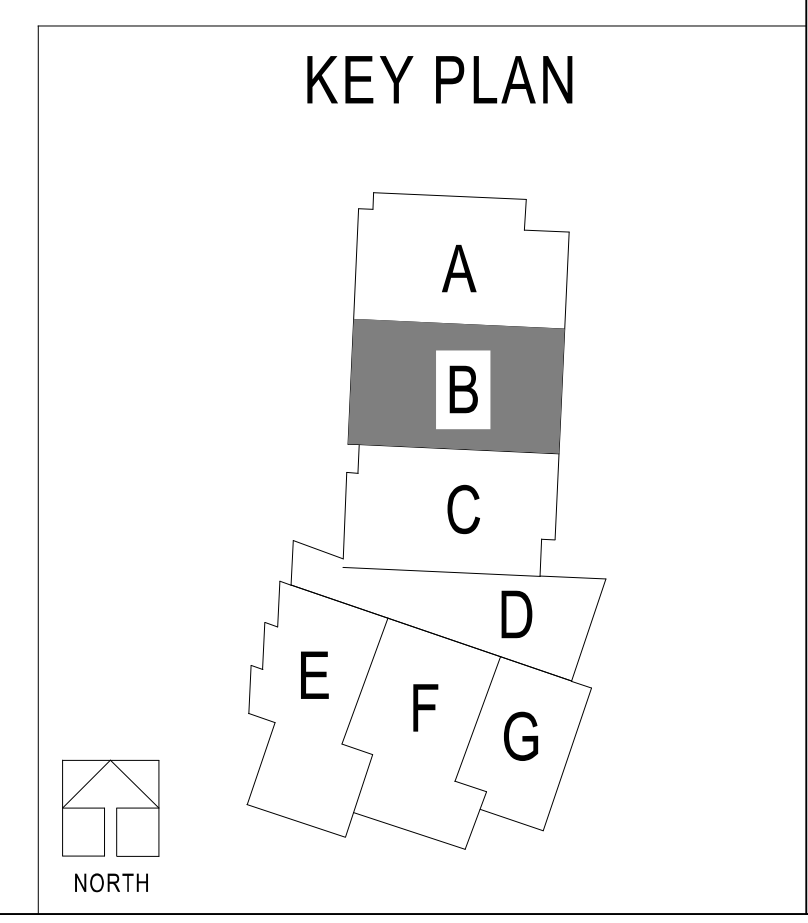


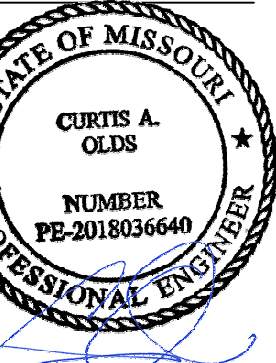
POWER FIRST LEVEL PLAN - AREA A
1/8" = 1'-0"

- ELECTRICAL PLAN NOTES:**
- E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS. REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.
 - E44 CONTRACTOR TO COORDINATE EXACT ROUGH-IN LOCATIONS FOR FOOD PREPARATION AREAS WITH ARCHITECTURAL PLANS, MILLWORK PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
 - E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.
 - E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.



POWER FIRST LEVEL PLAN - AREA B
1/8" = 1'-0"





Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

HENDERSON
 ENGINEERS
 1031 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 TEL: 816.251.4300
 WWW.HENDERSONENGINEERS.COM
 MISSOURI LICENSE # 000000000
 EXPIRES 12/31/2020

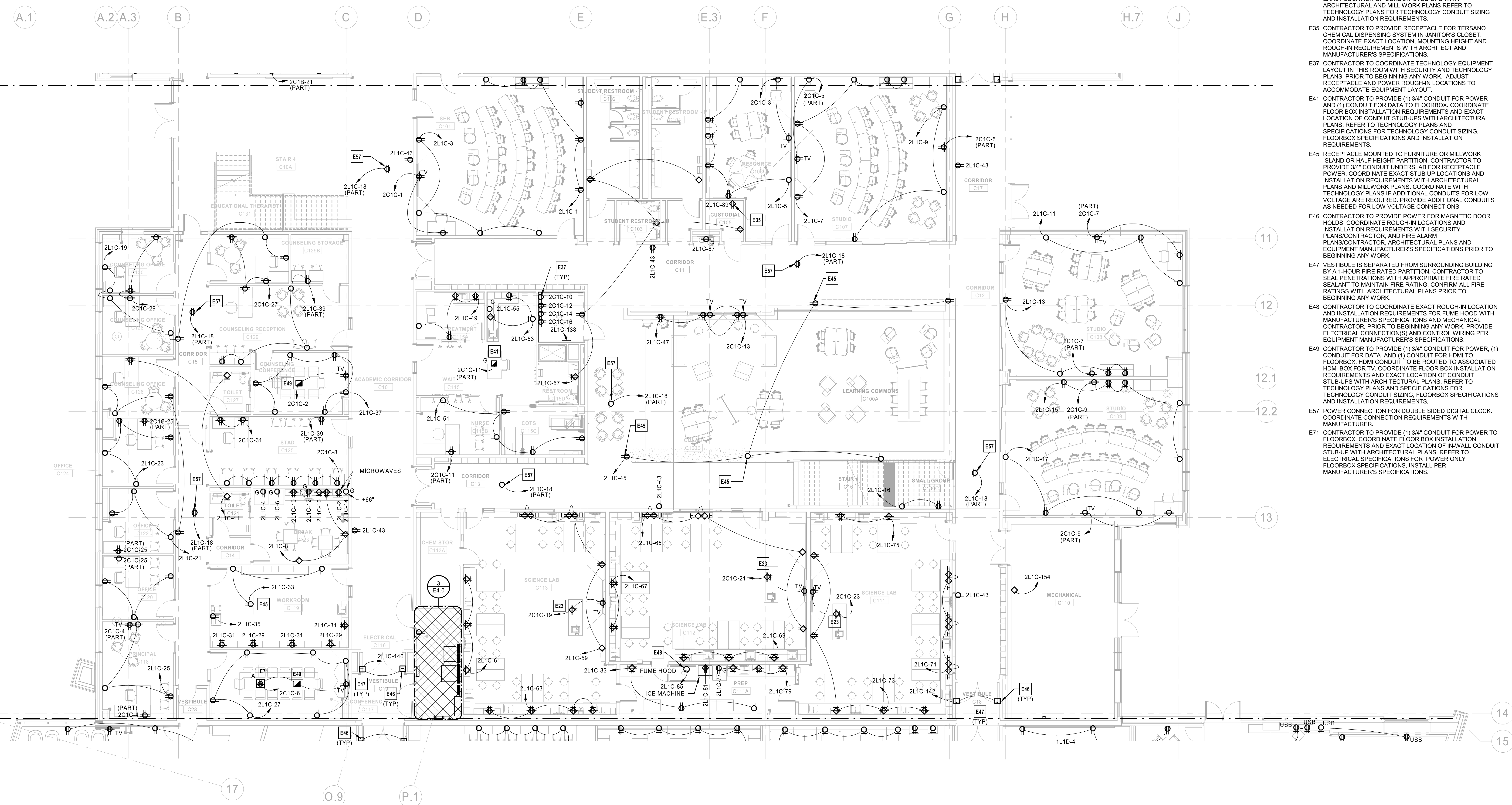
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

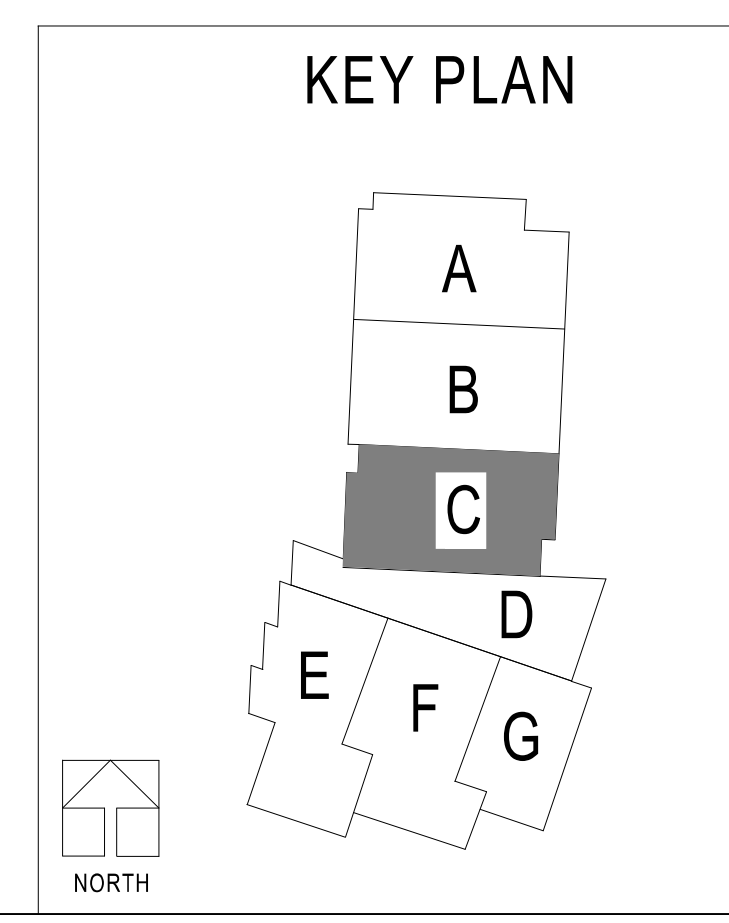
13-20102-00
 POWER FIRST LEVEL PLAN - AREA C

E2.1C

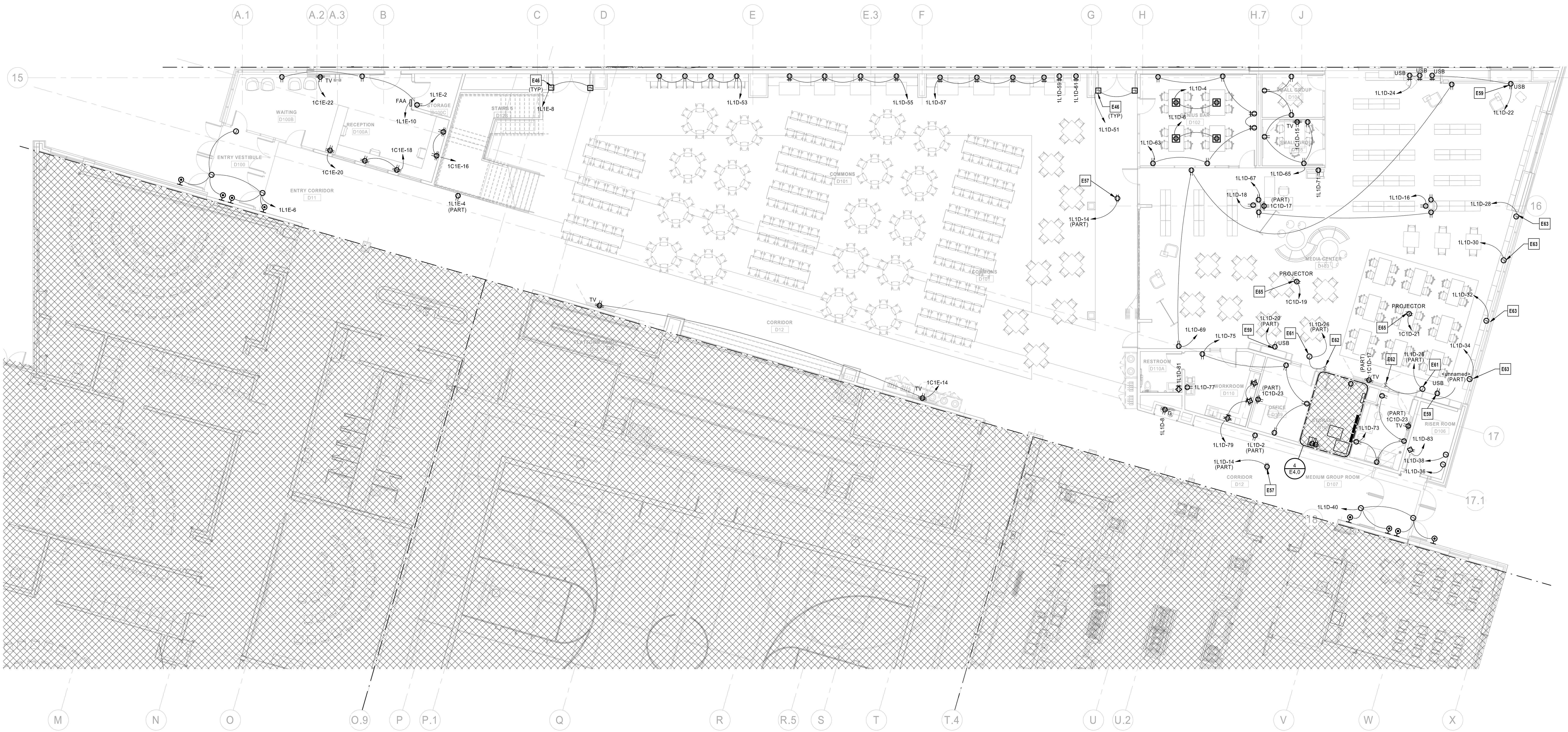
- ELECTRICAL PLAN NOTES:**
- E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.
 - E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.
 - E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS. PRIOR TO BEGINNING ANY WORK, ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.
 - E41 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) CONDUIT FOR DATA TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
 - E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDITIONS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.
 - E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS, COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.
 - E48 CONTRACTOR TO COORDINATE EXACT ROUGH-IN LOCATION AND INSTALLATION REQUIREMENTS FOR FUME HOOD WITH MANUFACTURER'S SPECIFICATIONS AND MECHANICAL CONTRACTOR. PRIOR TO BEGINNING ANY WORK, PROVIDE ELECTRICAL CONNECTIONS AND CONTROL WIRING PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
 - E49 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA AND (1) CONDUIT FOR HDMI TO FLOORBOX. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
 - E71 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF IN-WALL CONDUIT STUBUP WITH ARCHITECTURAL PLANS. REFER TO ELECTRICAL SPECIFICATIONS FOR POWER ONLY FLOORBOX SPECIFICATIONS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



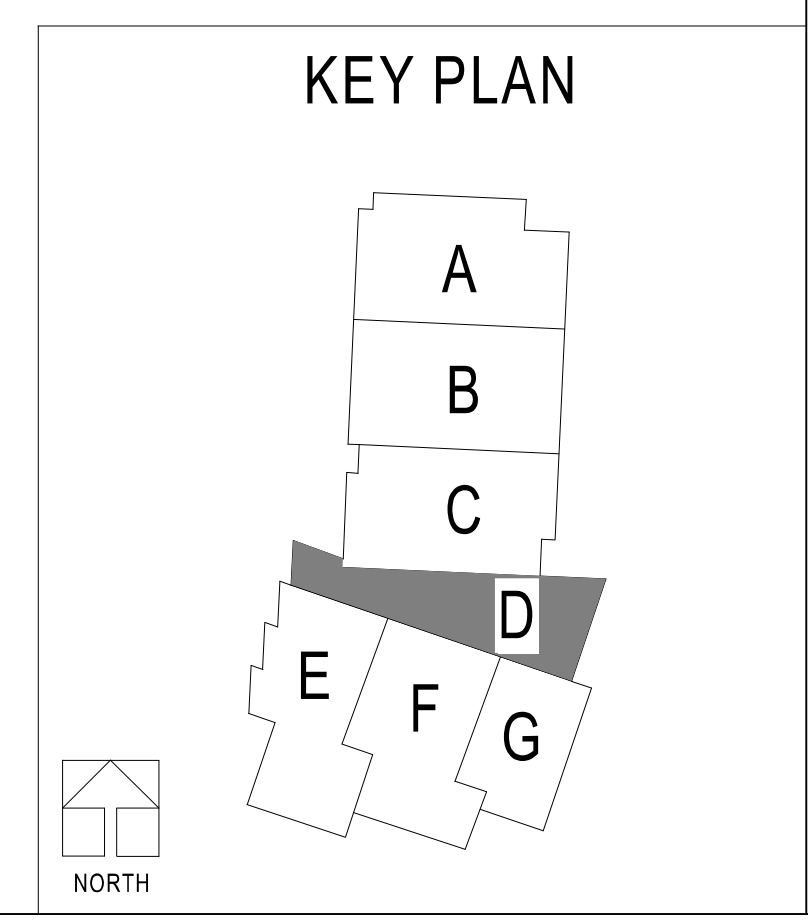
1 POWER FIRST LEVEL PLAN - AREA C
 1/8" = 1'-0"



- ELECTRICAL PLAN NOTES:**
- E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR ROUGH-IN.
 - E61 POWER CONNECTION FOR PROJECTOR SCREEN MOTOR. COORDINATE FINAL LOCATION WITH ARCHITECT AND TECHNOLOGY PLANS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.
 - E62 CONTROL SWITCH TO OPERATE PROJECTOR SCREEN MOTOR. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.
 - E63 CONTRACTOR TO ROUGH-IN FOR POWER AND CONTROLS FOR MOTORIZED BLINDS. COORDINATE EXACT NUMBER OF CONNECTIONS, NUMBER OF CIRCUITS NEEDED, AND EXACT ROUGH-IN WITH BLINDS MANUFACTURER'S SPECIFICATIONS. CIRCUIT IS TO BE ROUTED THROUGH RELAY PANEL IN ROOM D108. REFER TO DETAIL 4 ON SHEET E4.0 FOR MORE INFORMATION.
 - E65 COORDINATE FINAL LOCATION OF PROJECTOR WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE INSTALLATION AND DEVICE FINISH WITH CEILING.



1 POWER FIRST LEVEL PLAN - AREA D
1/8" = 1'-0"



DLR Group
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 © 2018 DLR GROUP, Inc. a Missouri corporation.
 ALL RIGHTS RESERVED.
 Missouri State Certificate of Authority #00391

CURTIS A. OLDS
 PROFESSIONAL ENGINEER
 NUMBER PE-2018036640

Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

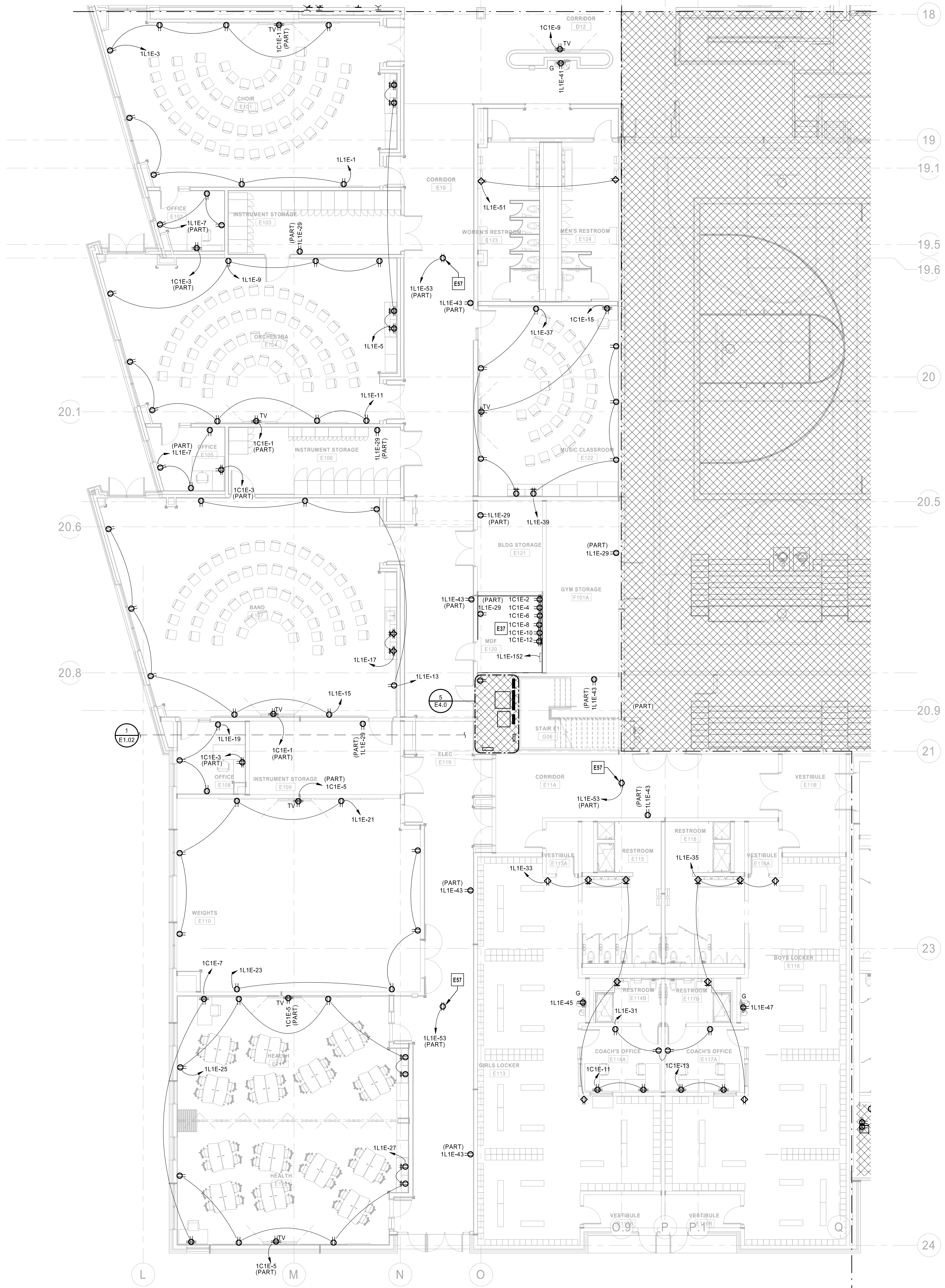
HENDERSON
 ENGINEERS
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 TEL: 816.732.1400
 WWW.HENDERSONENGINEERS.COM
 MISSOURI REGISTRATION NO. 000000000000
 M.O. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

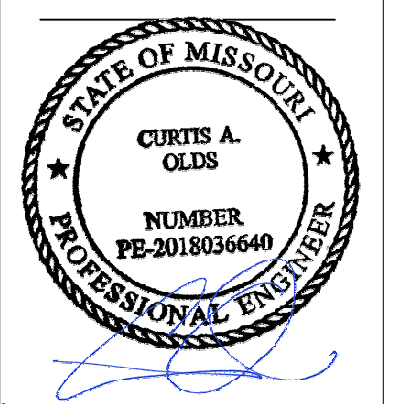
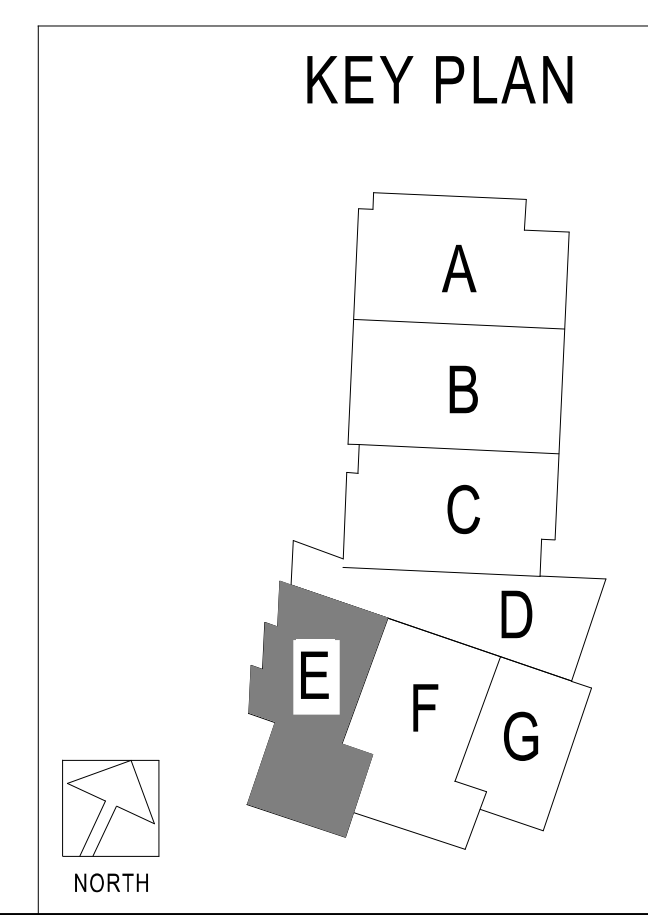
13-20102-00
 POWER FIRST LEVEL PLAN - AREA D

E2.1D



ELECTRICAL PLAN NOTES:
 E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.
 E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

POWER FIRST LEVEL PLAN - AREA E
 1/8" = 1'-0"



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

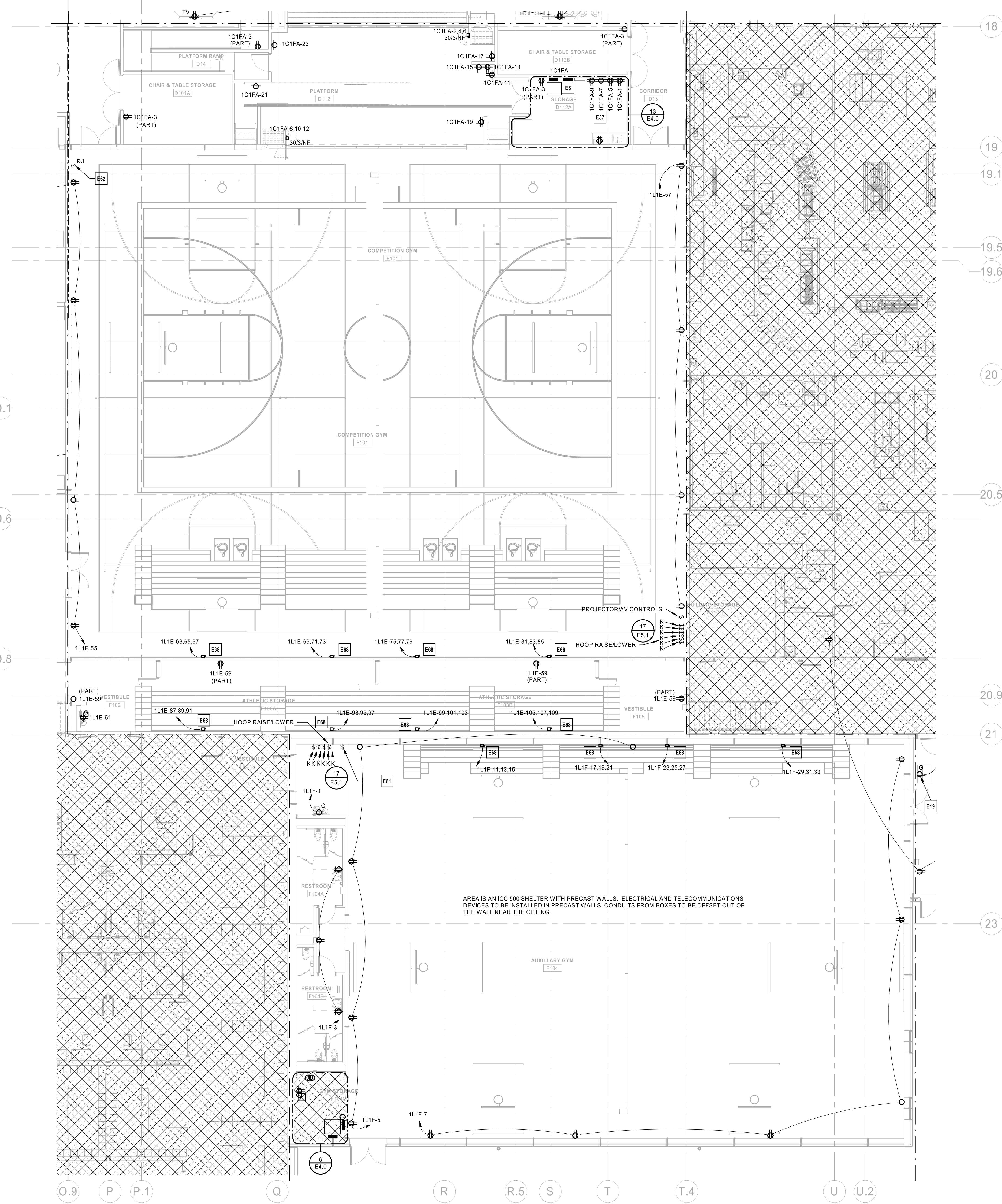
HENDERSON
 ENGINEERS
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 TEL: 816.424.4300
 WWW.HENDERSONENGINEERS.COM
 LICENSE # 0000000000
 MO. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

13-20102-00
 POWER FIRST LEVEL PLAN - AREA E

E2.1E



PRECAST ROUGH-IN NOTES:

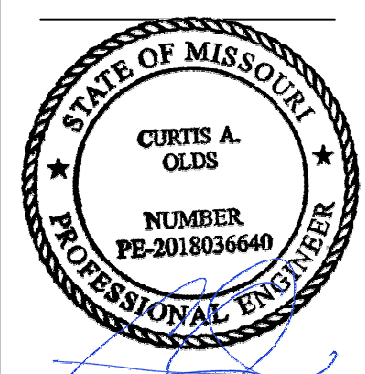
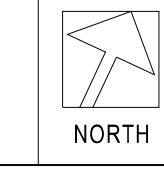
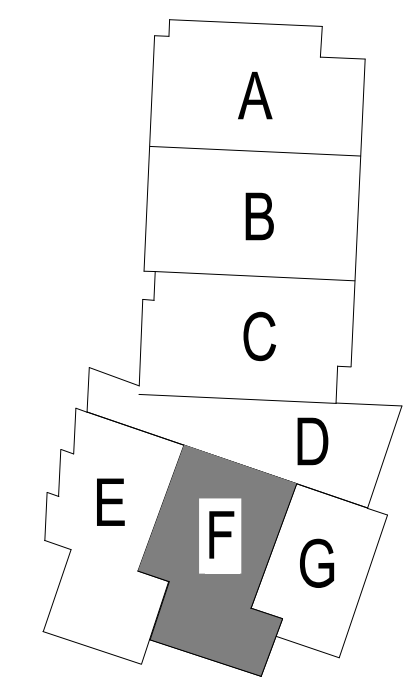
- COORDINATE ALL DEVICE LOCATIONS PRIOR TO BEGINNING ANY WORK. DEVICE LOCATIONS SHOULD BE ADJUSTED SO THAT THEY DO NOT FALL ON PRECAST SEAMS.
- GYMNASIUM IS PRE-CAST CONCRETE CONSTRUCTION AND TO BE ROUGH-IN BY ELECTRICAL CONTRACTOR. ALL DEVICE FINISH RINGS SHALL BE FLUSH WITH THE SURFACE OF THE CONCRETE.
- CONDUIT ROUGH-INS FOR ELECTRICAL LIGHTING AND POWER, EXIT SIGNS, FIRE ALARM, TELECOMMUNICATIONS, AUDIO-VISUAL, SCOREBOARD, AND DOOR SECURITY EQUIPMENT SHALL BE ROUTED VERTICALLY IN PRECAST WALL AND STUBBED INTO GYMNASIUM NEAR CEILING (BY OTHERS) FOR CONNECTION(S) TO WIRE WAYS AND/OR JUNCTION BOXES.
- EXTERIOR LIGHT FIXTURE CIRCUITS TO BE ROUTED TO LIGHTING CONTROL PANEL.
- COORDINATE EXACT ROUGH-IN LOCATIONS FOR OTHER DISCIPLINES. REFER TO MECHANICAL PLANS FOR MECHANICAL CONTROLS DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS. REFER TO FIRE PROTECTION PLANS FOR FIRE PROTECTION DEVICE. REFER TO TECHNOLOGY PLANS FOR AUDIO VISUAL AND TELECOMMUNICATIONS DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS. REFER TO SECURITY PLANS FOR SECURITY IN DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS.
- SCORE BOARD ROUGH-IN REQUIREMENTS TO BE COORDINATED WITH SCOREBOARD MANUFACTURER'S SPECIFICATIONS AND ARCHITECT. PROVIDE 1" CONDUIT FOR CONTROLS.
- REFER TO ELECTRICAL NOTES FOR ADDITIONAL

ELECTRICAL PLAN NOTES:

- E5 TRANSFORMER TO BE SUSPENDED. RE: 205.01 FOR SUSPENDED MOUNTING DETAIL. WHERE SHOWN ADJACENT TO TRANSFORMER, THIS TRANSFORMER SHALL BE SUSPENDED ABOVE.
- E19 POWER CONNECTION FOR OWNER PROVIDED EQUIPMENT. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
- E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS. PRIOR TO BEGINNING ANY WORK, ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.
- E62 CONTROL SWITCH TO OPERATE PROJECTOR SCREEN MOTOR. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.
- E68 CONTRACTOR TO PROVIDE POWER FOR MOTORIZED BLEACHERS. COORDINATE EQUIPMENT SELECTION AND CONTROLS LOCATION WITH ARCHITECT. COORDINATE NUMBER OF CONNECTIONS AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E81 APPROXIMATE LOCATION OF LOW VOLTAGE SWITCH FOR MANUAL OPERATION OF GYMNASIUM LOUVERS. COORDINATE EQUIPMENT SELECTION, EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

1 POWER FIRST LEVEL PLAN - AREA F
1/8" = 1'-0"

KEY PLAN



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

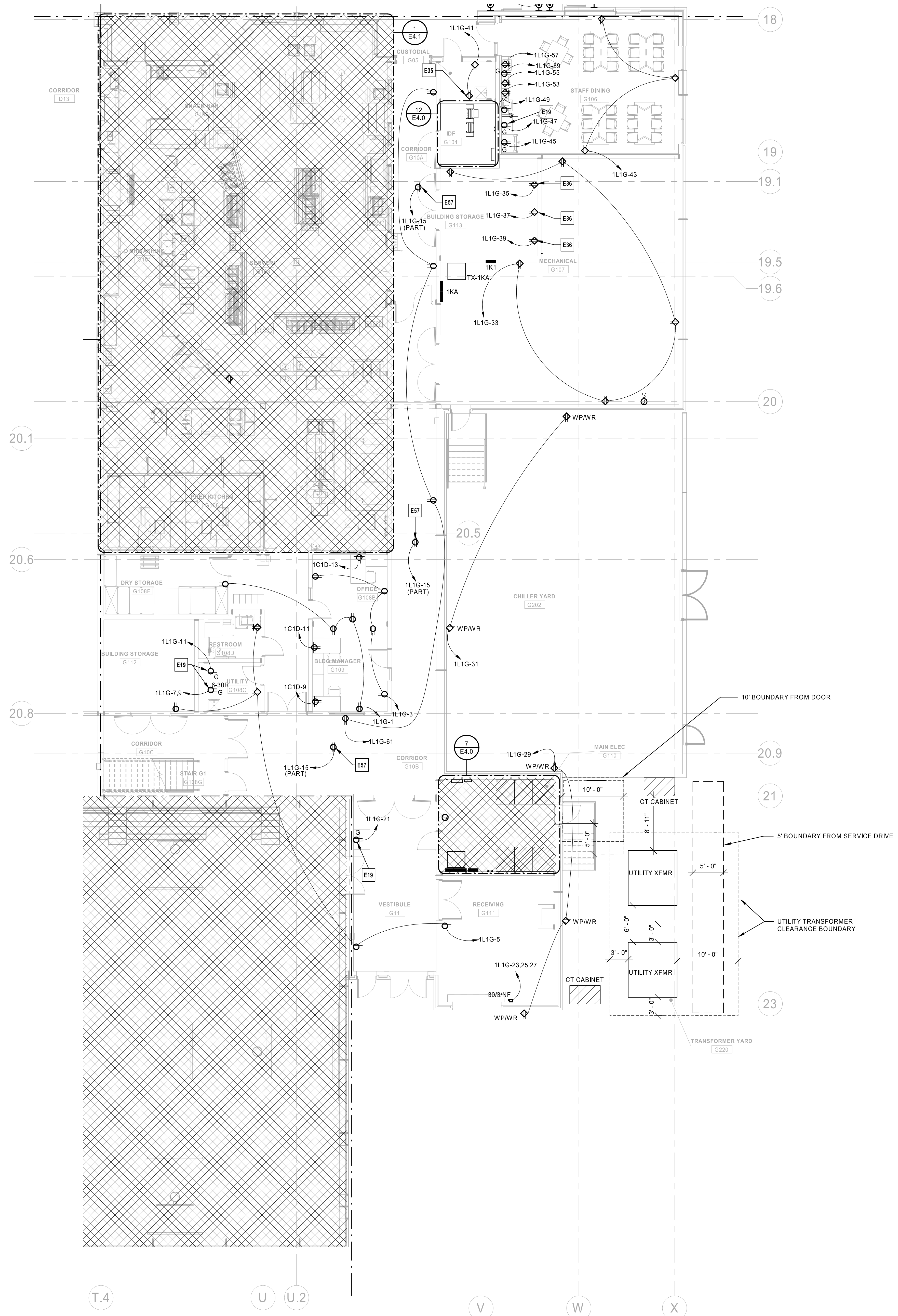
HENDERSON
 ENGINEERS
1845 LENEXA DRIVE, SUITE 300
 LENEXA, MO 64574-4300
 TEL: 913.766.8800
 WWW.HENDERSONENGINEERS.COM
 MISSOURI LICENSE NO. E-5680
 M.O. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

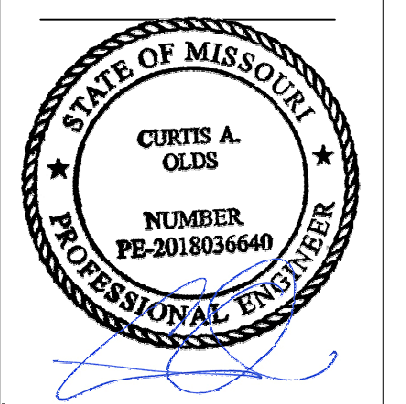
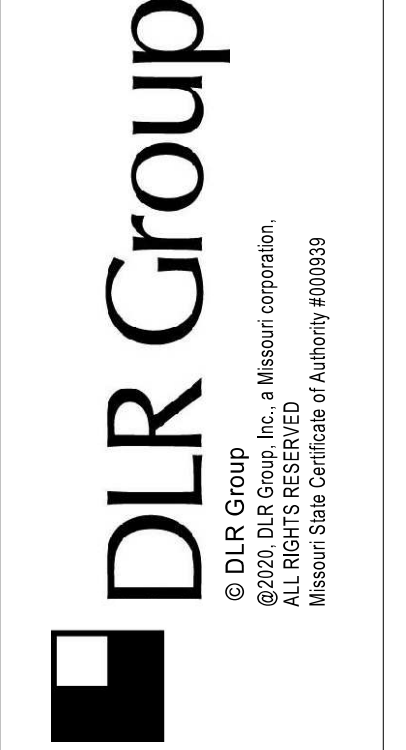
PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

13-20102-00
 POWER FIRST LEVEL PLAN - AREA F

E2.1F



- ELECTRICAL PLAN NOTES:**
- E19 POWER CONNECTION FOR OWNER PROVIDED EQUIPMENT. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
 - E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.
 - E36 CONTRACTOR TO PROVIDE ROUGH-IN FOR FLOOR CLEANING EQUIPMENT CHARGING STATIONS. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

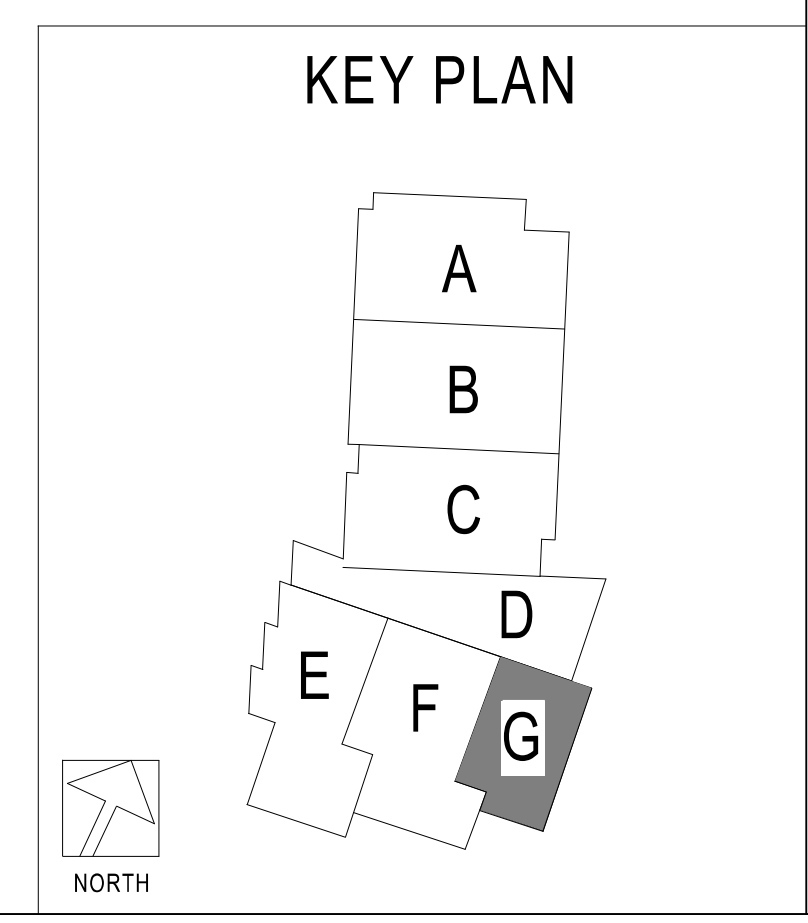


Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

HENDERSON
 ENGINEERS
 1845 LEXA DRIVE SUITE 300
 LEXA, MO 64543
 TEL: 417.268.4300
 WWW.HENDERSONENGINEERS.COM
 MISSOURI
 MO. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS



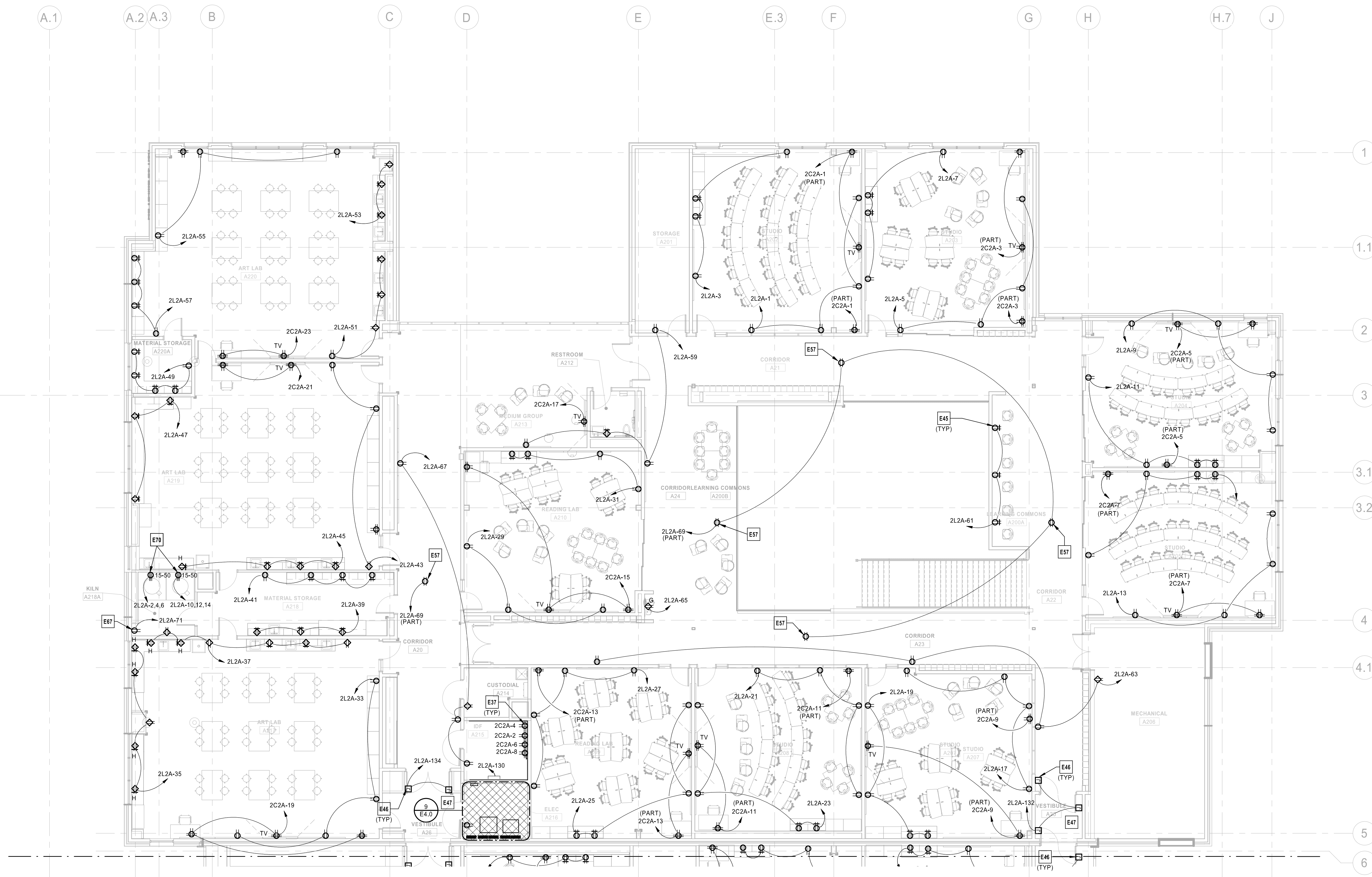
1 POWER FIRST LEVEL PLAN - AREA G
 1/8" = 1'-0"

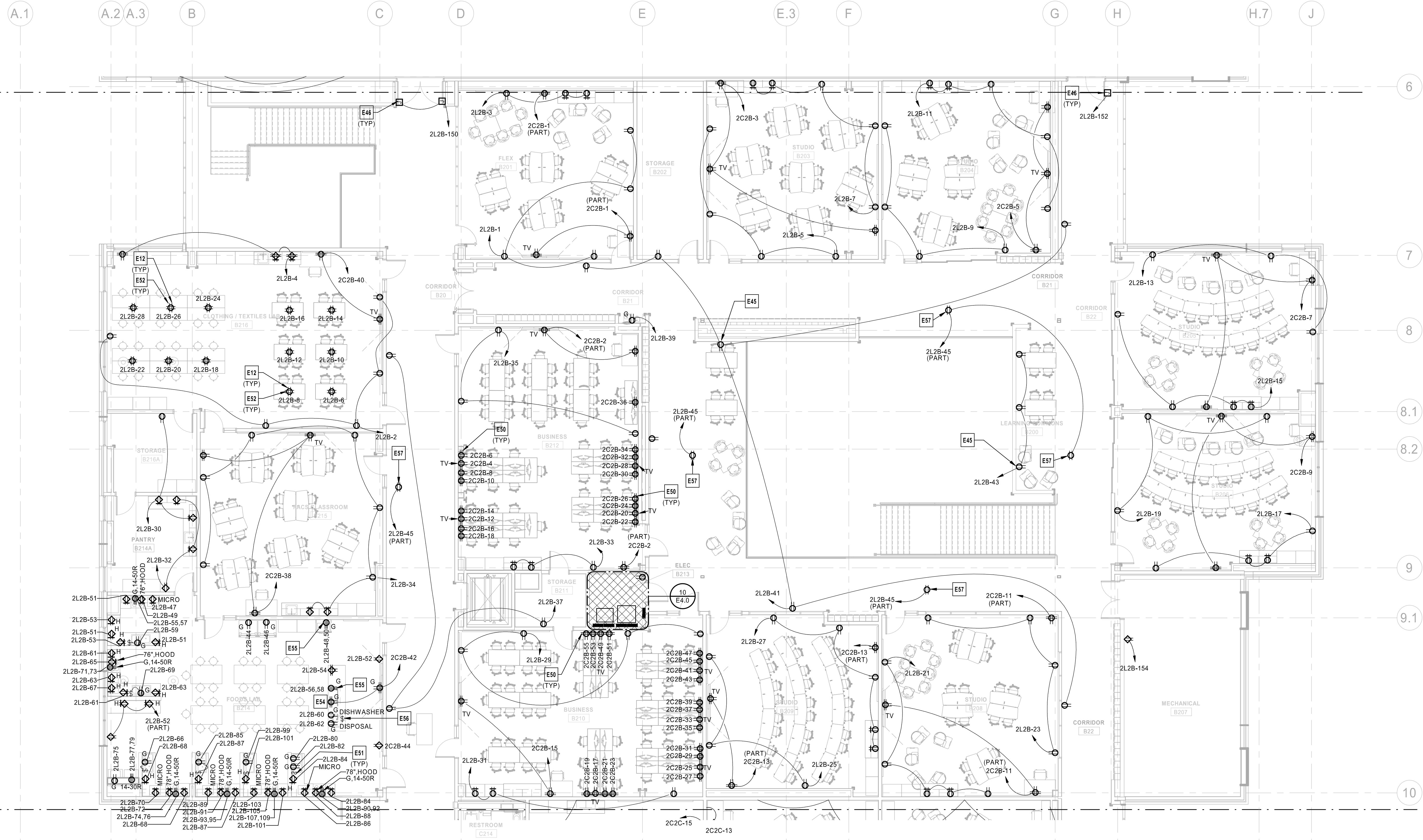
13-20102-00
 POWER FIRST
 LEVEL PLAN -
 AREA G

E2.1G

ELECTRICAL PLAN NOTES:

- E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.
- E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.
- E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR AND FIRE ALARM PLANS/CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
- E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.
- E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
- E67 POWER CONNECTION FOR KILN VENT FAN. COORDINATE FINAL LOCATION WITH ARCHITECT AND MANUFACTURER.
- E70 POWER CONNECTION FOR KILN. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

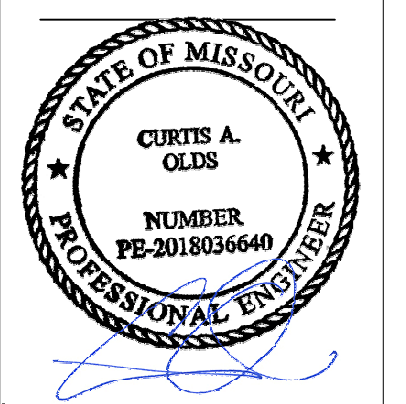
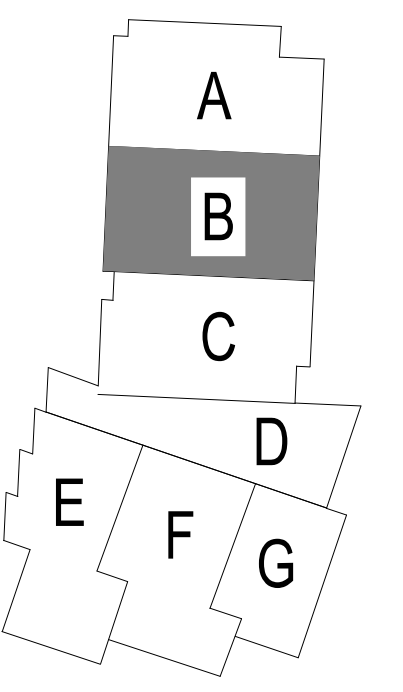




- ELECTRICAL PLAN NOTES:**
- E12 CORD REEL, FLEXIBLE CEILING MOUNT, BLACK HOUSING, BLACK CORD, TRIPLE TAP RECEPTACLE, NO GREATER THAN 10 LBS, 12/3, 15A, HUBBELL HBLCA0123TT OR APPROVED EQUIVALENT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.
 - E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.
 - E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E50 BUSINESS CLASSROOM COMPUTER FURNITURE REQUIREMENTS ARE NOT FINALIZED. DESIGN IS SUBJECT TO CHANGE. INITIAL DESIGN IS (3) QUAD RECEPTACLES MOUNTED AT STANDARD OUTLET HEIGHT FOR COMPUTER POWER AND (1) WALL MOUNTED TV. CONFIRM POWER REQUIREMENTS AND ROUGH-IN LOCATIONS WITH FURNITURE PLANS AND ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING ANY WORK.
 - E51 MOUNT SWITCH FOR FOODS LAB GARBAGE DISPOSALS HORIZONTALLY IN BACKSPLASH
 - E52 CONTRACTOR TO COORDINATE NUMBER OF CORD REELS NEEDED FOR CLOTHING/TEXTILE LAB STUDENT DESKS.
 - E54 CONTRACTOR TO COORDINATE ISLAND EQUIPMENT SELECTION AND ELECTRICAL REQUIREMENTS, LAYOUT AND EXACT CONDUIT STUB UP LOCATIONS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS PRIOR TO BEGINNING ANY WORK.
 - E55 COOKING APPLIANCE EQUIPMENT SELECTION HAS NOT BEEN MADE AVAILABLE TO ENGINEER. CONTRACTOR TO CONFIRM EQUIPMENT ELECTRICAL REQUIREMENTS (OCPD, BREAKER SIZE, # OF CONDUCTORS, J-BOX SIZE, CONDUIT SIZE AND CONNECTION TYPE). IF EQUIPMENT IS CORN AND PLUG PROVIDE GFCI CIRCUIT BREAKER AS INDICATED. IF EQUIPMENT IS HARDWIRED GFCI PROTECTION IS NOT REQUIRED.
 - E56 CONTRACTOR TO PROVIDE SWITCH FOR DISPOSAL VIA SURFACE MOUNTED CONDUIT AND J-BOX WITH INDUSTRIAL STYLE COVER. SWITCH TO BE LOCATED UNDER THE SINK NEAR MILLWORK DOORS OCCUPANT CONVENIENCE.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

POWER SECOND LEVEL PLAN - AREA B
1/8" = 1'-0"

KEY PLAN



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

HENDERSON
 ENGINEERS
 1001 SE BAILEY ROAD
 LEES SUMMIT, MO 64081
 TEL: 816.251.4400
 WWW.HENDERSONENGINEERS.COM

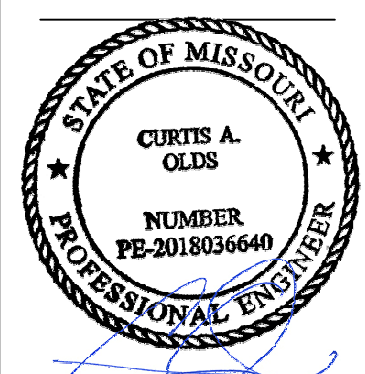
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

13-20102-00
 POWER SECOND LEVEL PLAN - AREA B

E2.2B

- ELECTRICAL PLAN NOTES:**
- E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.
 - E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.
 - E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
 - E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.
 - E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
 - E82 CONTRACTOR TO PROVIDE SLEEVES FOR TELECOMMUNICATIONS AND AV CABLING BETWEEN CONTROL ROOM AND BROADCAST STUDIO. COORDINATE QUANTITY AND SLEEVE SIZE WITH ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS. PROVIDE SOUND DAMPENING MATERIAL ON SLEEVES WHEN WORK IS COMPLETE.



Oct 8 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

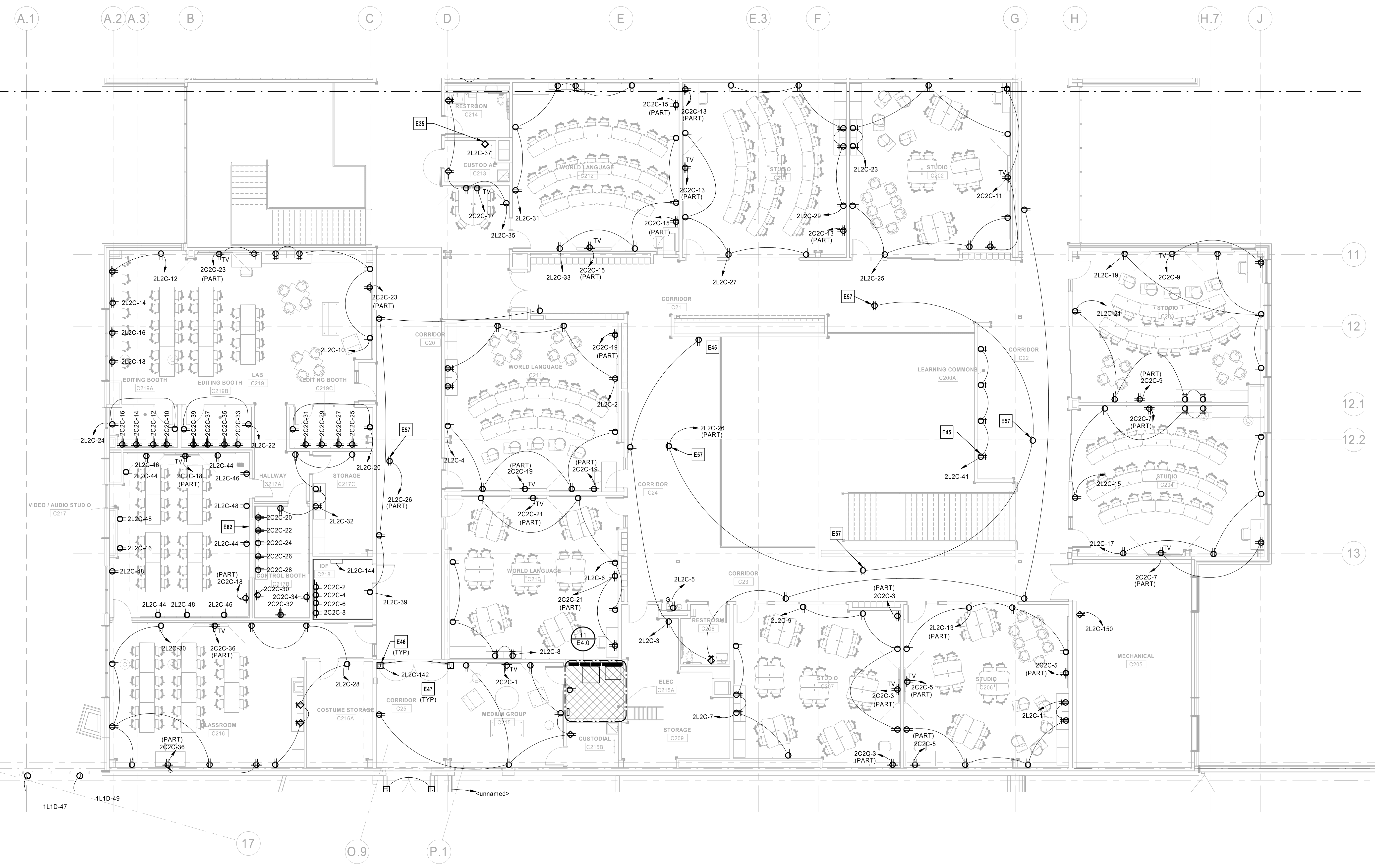
HENDERSON
ENGINEERS
1845 LEXENA DRIVE SUITE 300
LEES SUMMIT, MO 64081
TEL: 636.267.4300
WWW.HENDERSONENGINEERS.COM
M.O. CORPORATE NO. E-5680
EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

13-20102-00
POWER SECOND LEVEL PLAN - AREA C

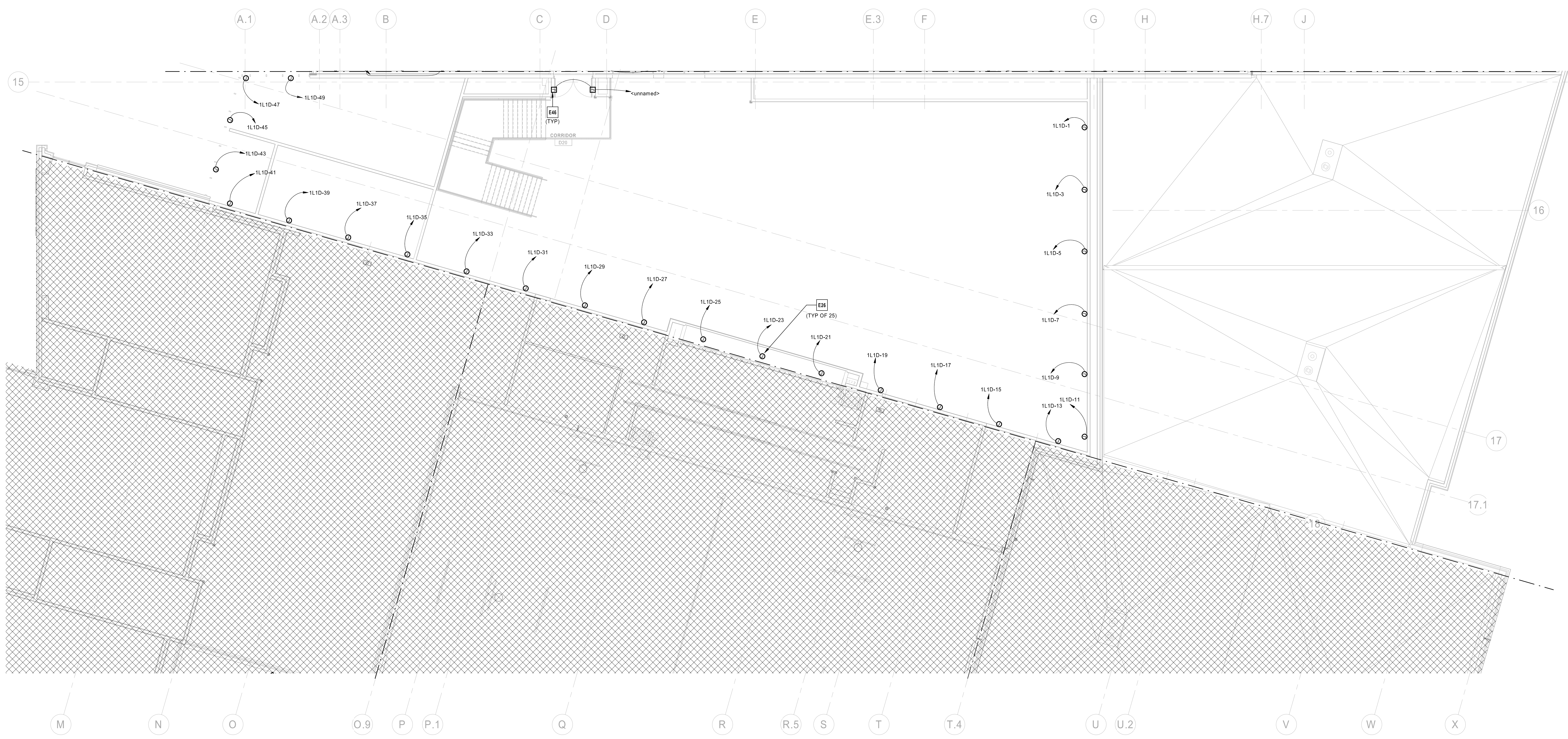
E2.2C



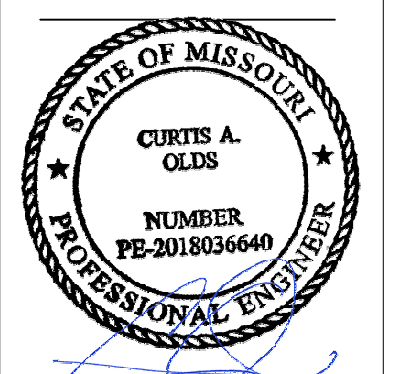
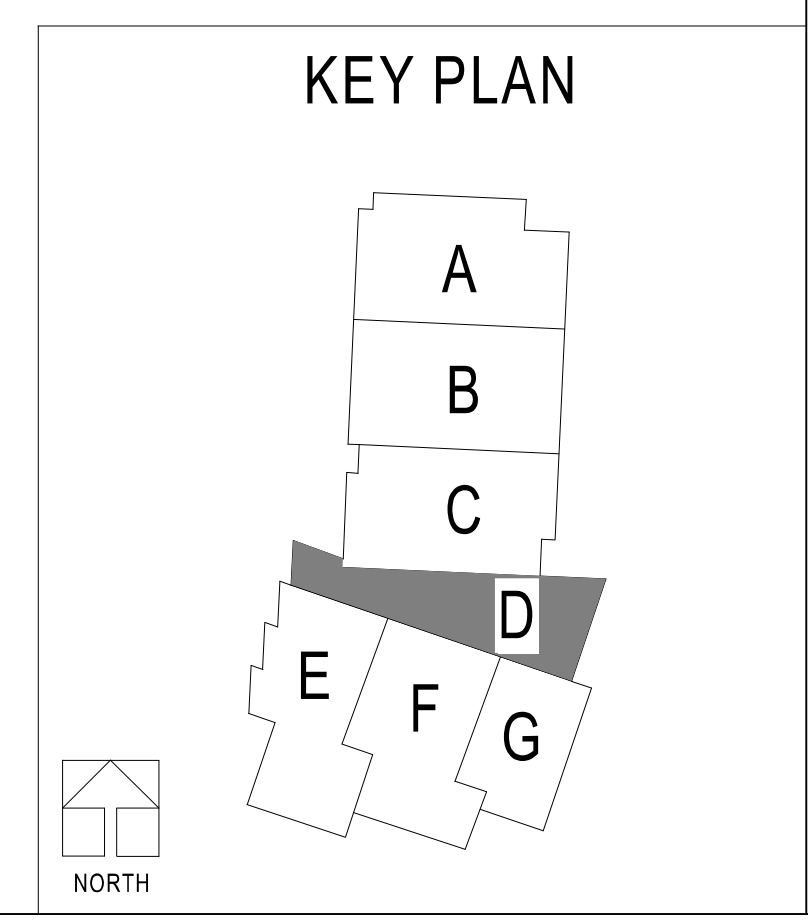
ELECTRICAL PLAN NOTES:

E26 CONTRACTOR TO ROUGH-IN FOR POWER AND CONTROLS FOR MOTORIZED BLINDS. COORDINATE EXACT NUMBER OF CONNECTIONS, NUMBER OF CIRCUITS NEEDED, AND EXACT ROUGH-IN WITH BLINDS MANUFACTURER'S SPECIFICATIONS. COMMONS D101 HAS BLINDS ABOVE ON CLERESTORY. CIRCUIT IS TO BE ROUTED THROUGH RELAY PANEL IN ROOM D108. REFER TO DETAIL 4 ON SHEET E4.0 FOR MORE INFORMATION.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS CONTRACTOR, AND FIRE ALARM PLANS CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.



POWER SECOND LEVEL PLAN - AREA D
1/8" = 1'-0"



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

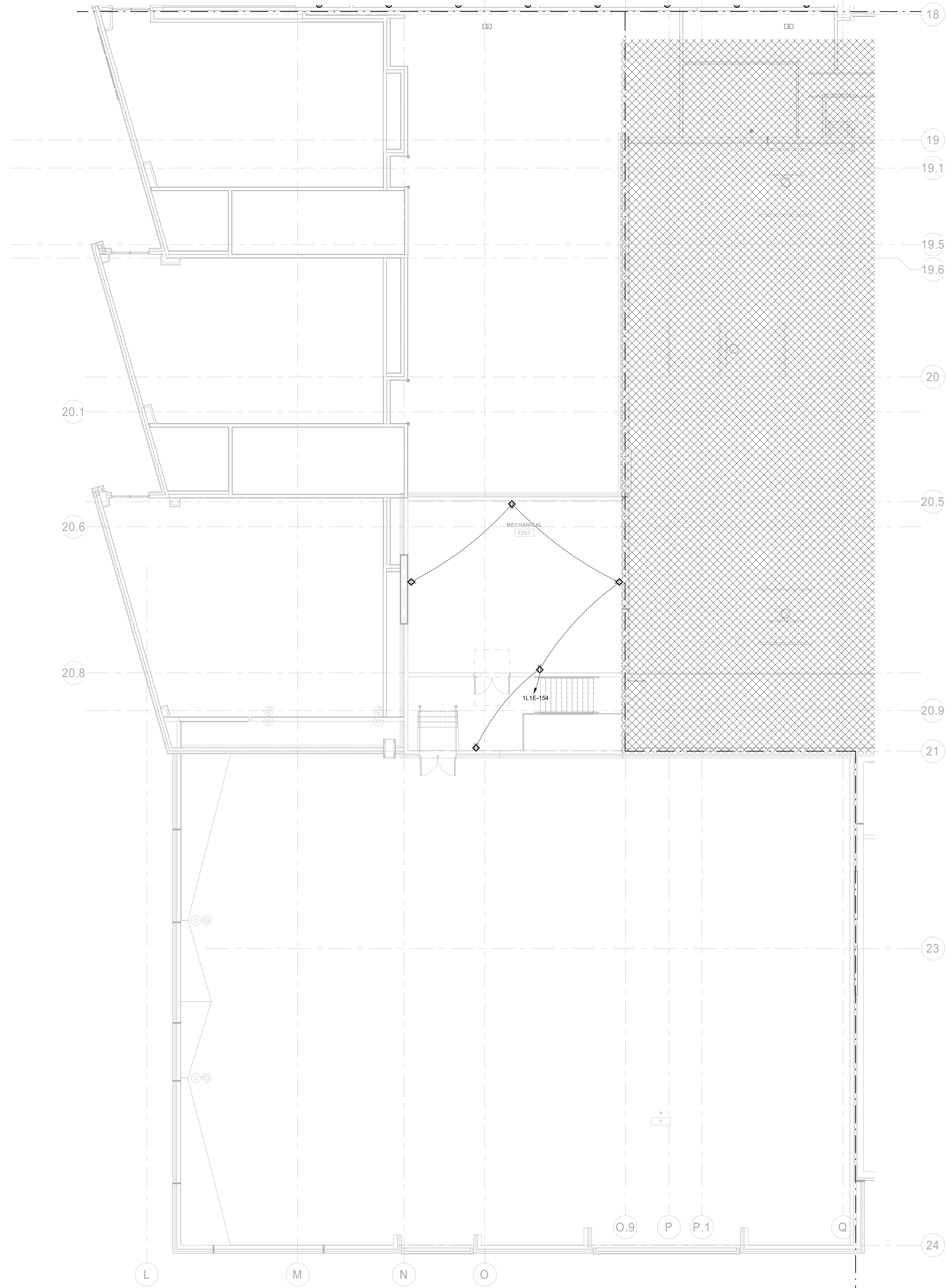
HENDERSON ENGINEERS
1845 LINDEN DRIVE SUITE 300
 FARGO ND 58103
 TEL: 701.785.8000
 WWW.HENDERSONENGINEERS.COM
 M.D. CORPORATION NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

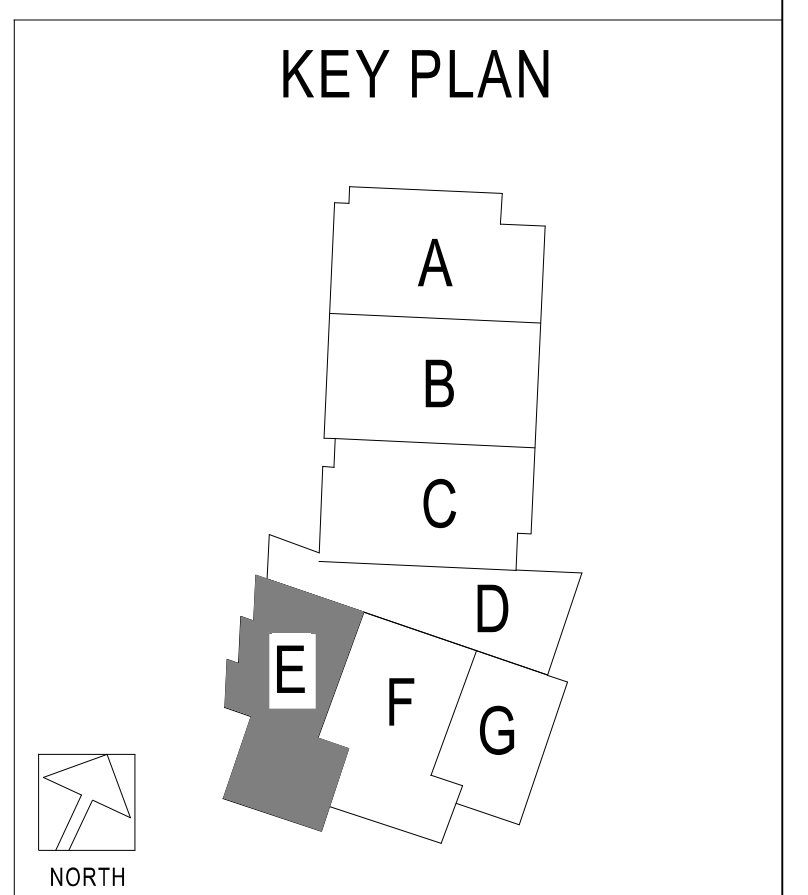
PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

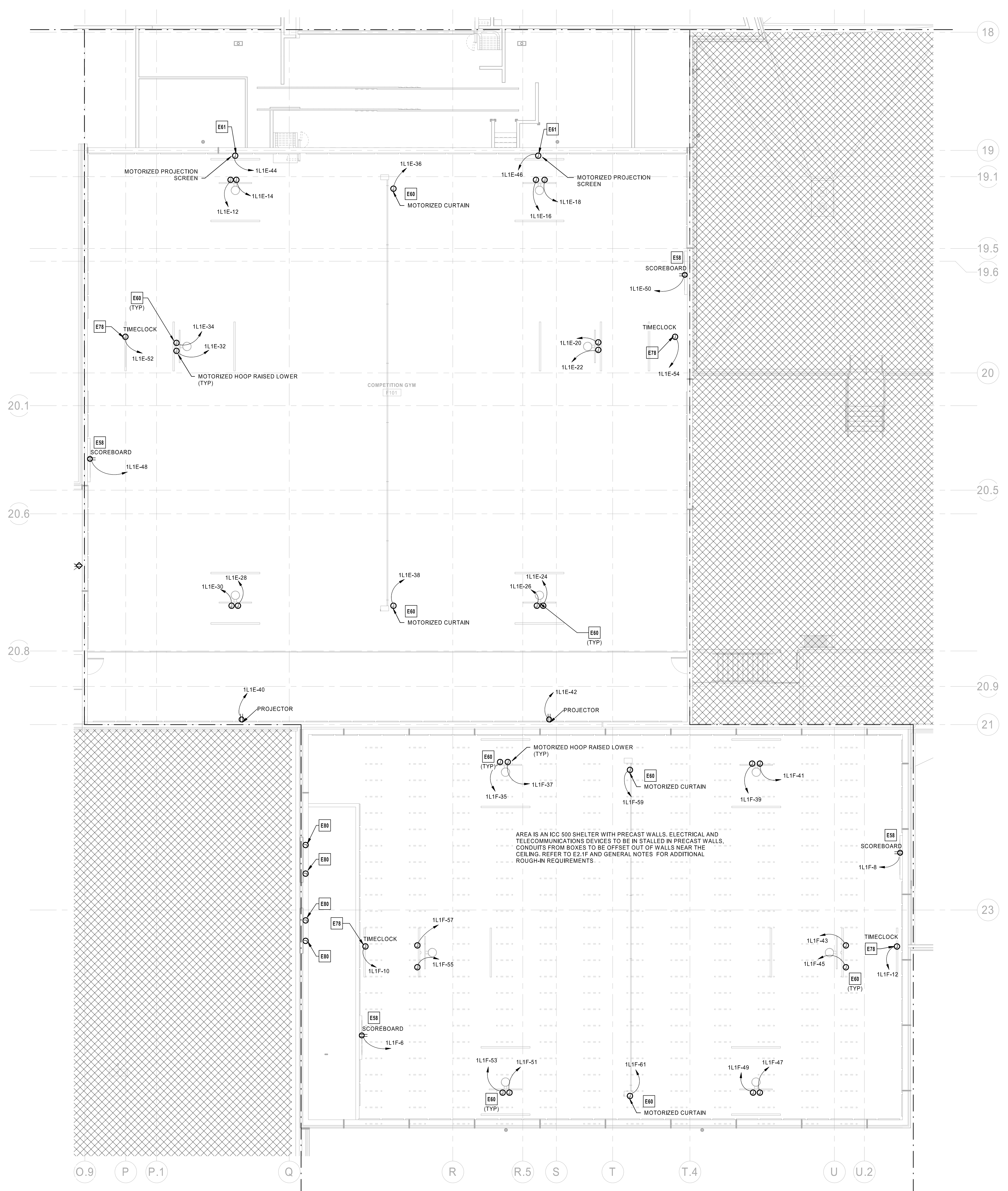
13-20102-00
 POWER SECOND LEVEL PLAN - AREA D

E2.2D



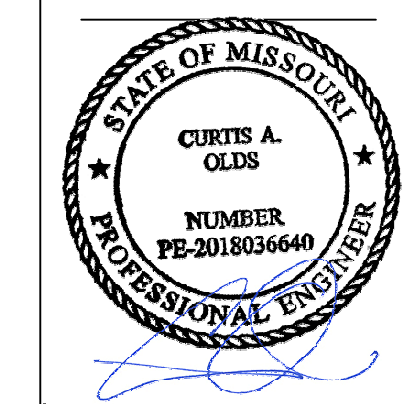
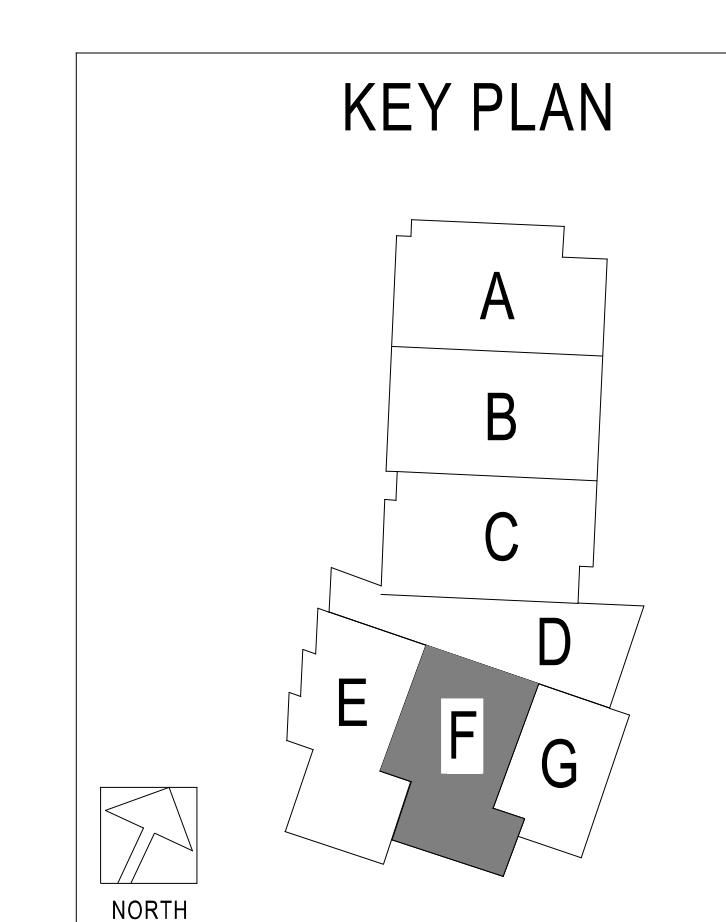
① POWER SECOND LEVEL PLAN - AREA E
 1/8" = 1'-0"





- ELECTRICAL PLAN NOTES:**
- E58 COORDINATE EXACT ROUGH-IN LOCATIONS AND MOUNTING HEIGHTS FOR SCOREBOARD POWER WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS. ARCHITECTURAL PLANS AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. PROVIDE BOX FOR TECHNOLOGY DEVICES IN PRECAST WALL AND 1" CONDUIT TO SCORER'S TABLE. COORDINATE SCORER'S TABLE LOCATION WITH ARCHITECTURAL PLANS.
 - E60 CONTRACTOR TO PROVIDE POWER FOR GYMNASIUM CURTAIN AND BASKETBALL HOOP RAISE LOWER MOTORS. MOTORS TO BE CONTROLLED VIA EQUIPMENT MANUFACTURER PROVIDED RELAY CONTROL PANEL. COORDINATE EQUIPMENT MANUFACTURER SELECTION WITH ARCHITECT. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
 - E61 POWER CONNECTION FOR PROJECTOR SCREEN MOTOR. COORDINATE FINAL LOCATION WITH ARCHITECT AND TECHNOLOGY PLANS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.
 - E78 COORDINATE EXACT ROUGH-IN LOCATIONS AND MOUNTING HEIGHTS FOR TIMELOCK POWER WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS. ARCHITECTURAL PLANS AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. PROVIDE BOX FOR TECHNOLOGY DEVICES AND 1" CONDUIT TO SCORER'S TABLE. COORDINATE SCORER'S TABLE LOCATION WITH ARCHITECTURAL PLANS.
 - E80 APPROXIMATE LOCATION OF LOW VOLTAGE ROUGH-IN FOR WALL MOUNTED ICC 500 SHELTER LOUVERS CONTRACTOR TO PROVIDE CONDUITS AND JUNCTION BOXES FOR EQUIPMENT CONNECTIONS. COORDINATE QUANTITY OF CONDUITS AND JUNCTION BOXES. ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK. CONDUITS TO BE INSTALLED IN PRECAST WALL AND BOX TO BE MOUNTED UNDER LOUVER.

1 POWER SECOND LEVEL PLAN - AREA F
1/8" = 1'-0"



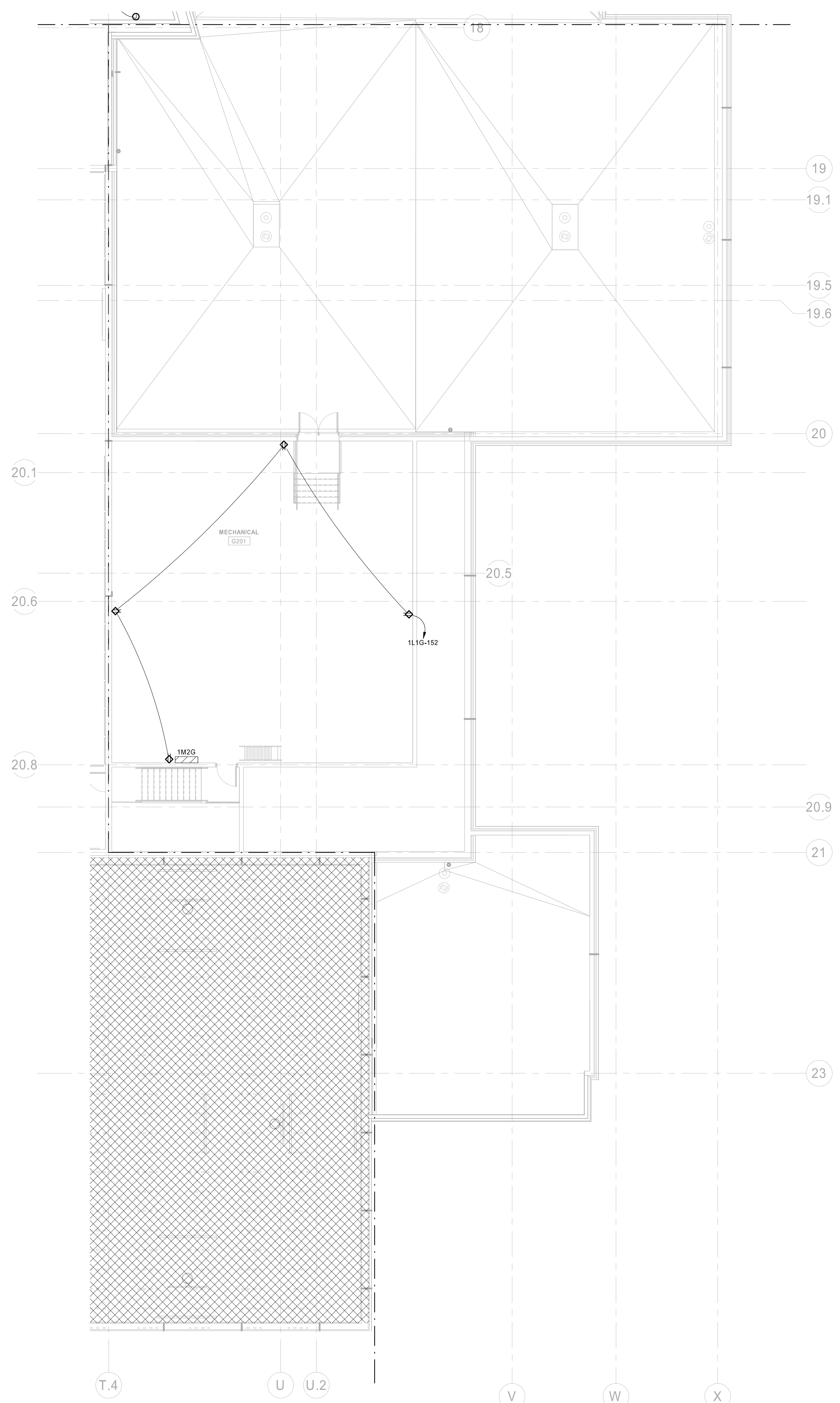
Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

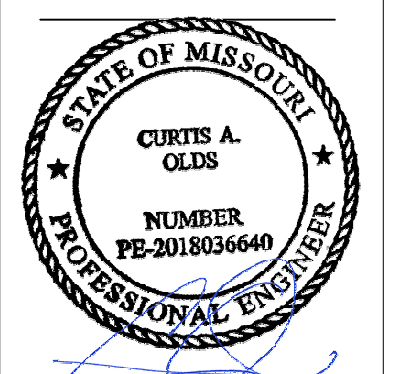
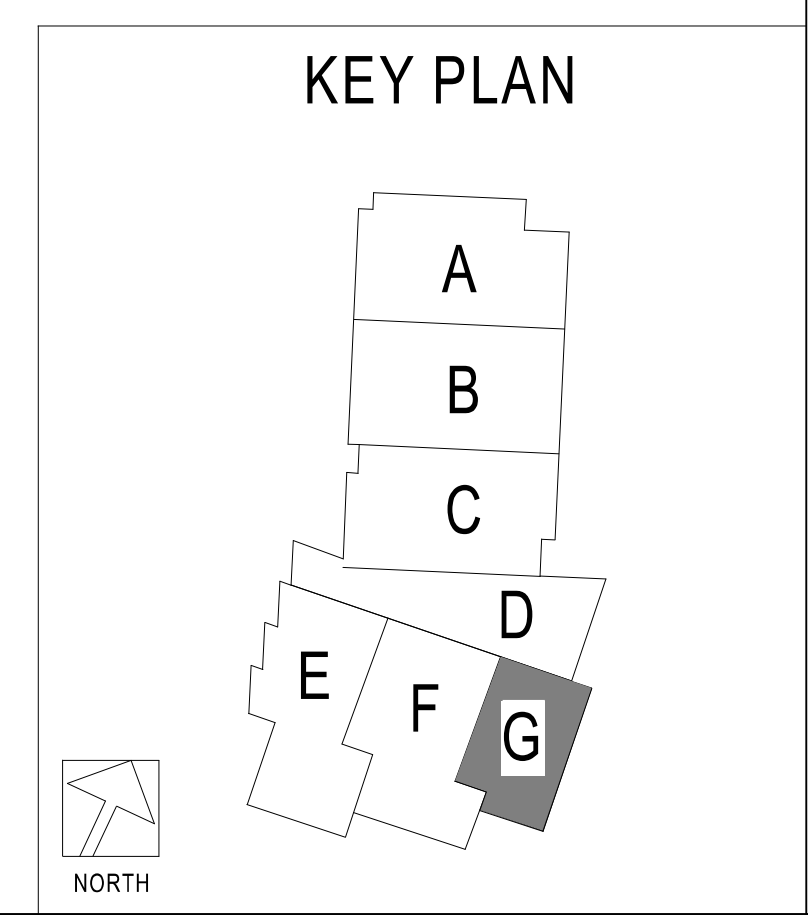
13-20102-00
 POWER SECOND LEVEL PLAN - AREA F

E2.2F

1L1D-13



① POWER SECOND LEVEL PLAN - AREA G
 1/8" = 1'-0"



Oct 8 2020
 CURTIS A. OLDS
 LICENSE # PE-2018036640

HENDERSON
 ENGINEERS
 1845 PENNA DRIVE SUITE 300
 JENSEN, KS 66214-4300
 TEL: 913.738.8000
 WWW.HENDERSONENGINEERS.COM
 MISSOURI PROFESSIONAL ENGINEER
 MO. CORPORATE NO. E-5680
 EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
 10/08/20
 REVISIONS

13-20102-00
 POWER SECOND LEVEL PLAN - AREA G

E2.2G