

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER	MODEL	LAMP DESCRIPTION	WATTAGE	REMARKS
L1	LINEAR LED EXTRUDED ALUMINUM TABLE MOUNTED TASK LIGHT	VODE LIGHTING	107-RR-01-58IN-58-TAE-24-2T-1-0-Z-LO-35-G1-0-A-L-1-9	LED, 8.1 TWFT, 891 LUMENS/FT, 3500K, 80+ CRI	19 W	DIRECTION CONTROL WITH ROTATION, 36" LENGTH
L2	SAME AS L1 EXCEPT 192 INCH LENGTH AND DOUBLE RAIL	VODE LIGHTING	107-RR-01-192IN-48-TAE-24-2T-1-0-Z-LO-35-G1-0-A-L-1-9	LED, 8.1 TWFT, 891 LUMENS/FT, 3500K, 80+ CRI	61 W	
L3	SAME AS L2 EXCEPT 336 INCH LENGTH	VODE LIGHTING	107-RR-01-336IN-48-TAE-24-2T-1-0-Z-LO-35-G1-0-A-L-1-9	LED, 8.1 TWFT, 891 LUMENS/FT, 3500K, 80+ CRI	106 W	
L4	EXISTING LED WALL MOUNTED REFLECTOR FIXTURE				0 W	

- ### LUMINAIRE SCHEDULE GENERAL NOTES
- REFER TO ELECTRICAL SPECIFICATIONS FOR MORE INFORMATION.
 - ALL LIGHT FIXTURES SHALL BE UL LABELED.
 - FIRST MANUFACTURER LISTED IS BASIS OF DESIGN. OTHER MANUFACTURERS LISTED ARE APPROVED MANUFACTURERS.
 - ELECTRICAL TRADES SHALL PROVIDE COMPLETE SUBMITTALS (SHOP DRAWINGS) ON ALL LIGHT FIXTURES, LAMPS, CONTROLS AND ACCESSORIES, ETC. REFER TO SPECIFICATION FOR SUBMITTAL FORMAT AND PROCESS. NO EXCEPTIONS ALLOWED. NON-COMPLETE OR INCORRECT FORMAT WILL RESULT IN BACK CHARGES TO CONTRACTOR AND NOT APPROVED SUBMITTALS.
 - ALL LUMINAIRES AND CONTROLS SHALL COMPLY WITH THE MICHIGAN UNIFORM ENERGY CODE AND ASHRAE 90.1. REFER TO THE BOOK SPECIFICATIONS AND DRAWINGS FOR MORE INFORMATION ON LIGHTING CONTROLS.
 - PROVIDE ADDITIONAL WIRING TO EMERGENCY BATTERY PACKS AS REQUIRED. FOR SWITCH AND UNSWITCHED LIGHT FIXTURES.

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
C	CONDUIT OR CEILING MOUNTED
CB	CIRCUIT BREAKER
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
F	FUSE
GGRD	GROUND
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NNEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
PH, OR Ø	PHASE
P	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHLORIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
RP	RECEPTACLE PANEL
TBB	TELEPHONE BACKBOARD
TYP.	TYPICAL
UC	UNDERCOUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

DRAWING NOTATION

SYMBOL	DESCRIPTION
L1	LIGHTING FIXTURE TAG
1	CONSTRUCTION KEY NOTE NUMBER 1
1	DEMOLITION KEY NOTE NUMBER 1
20	COPPER FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
20	ALUMINUM FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
EQUIPMENT	EQUIPMENT TAG
---	EXISTING DEVICES OR EQUIPMENT
---	NEW OR MODIFIED DEVICES OR EQUIPMENT
---	NEW OR MODIFIED UNDERGROUND WIRING
---	EXISTING SYSTEM COMPONENT TO BE REMOVED
⊙	POINT OF NEW CONNECTION

SECTION NUMBER 4
ES 2

SECTION NO. 6
ES 2
SCALE: 1/4" = 1' - 0"

LIGHTING CONTROL TAG
1A - SCENE SCHEDULE ID 'A' (MAY NOT APPEAR ON EVERY TAG)
Z1 - DAYLIGHTING CONTROL ZONE '1' (MAY NOT APPEAR ON EVERY TAG)

APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2015	MICHIGAN BUILDING CODE
2015	MICHIGAN ENERGY CODE
2015	MICHIGAN RESIDENTIAL CODE
2015	MICHIGAN REHABILITATION CODE
2017	MICHIGAN ELECTRICAL CODE RULES, PART 8
2017	NATIONAL ELECTRICAL CODE (NFPA 70)
2013	NFPA 20
2013	NFPA 72
2013	NFPA 101
2013	NFPA 110
2009	ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES
1985	DETROIT ELEVATOR CODE

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
\$	SINGLE POLE SWITCH
\$A	LIGHTING CONTROL LOCATION - 5 BUTTONS
\$B	LIGHTING CONTROL LOCATION - 3 BUTTONS
\$C	LIGHTING CONTROL LOCATION - 2 BUTTONS
\$3	THREE WAY SWITCH
\$4	FOUR WAY SWITCH
\$L	LIGHT CONTROL LOCATION
G	GENERATOR TRANSFER DEVICE

POWER SYMBOL LIST

SYMBOL	DESCRIPTION
TM	TABLE MONUMENT

DRAWING INDEX

SHEET NO.	DESCRIPTION
E-000	ELECTRICAL GENERAL INFORMATION
EL-101A	FIRST FLOOR NORTH LIGHTING PLAN
EL-101B	FIRST FLOOR SOUTH LIGHTING PLAN
EL-102A	SECOND FLOOR NORTH LIGHTING PLAN
EL-102B	SECOND FLOOR SOUTH LIGHTING PLAN
E-600	PANEL SCHEDULES
E-700	ELECTRICAL RISER DIAGRAM
E-800	ELECTRICAL SPECIFICATIONS

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08/11/2020

Keyplan

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ELECTRICAL GENERAL INFORMATION

SHEET NUMBER:

E-000



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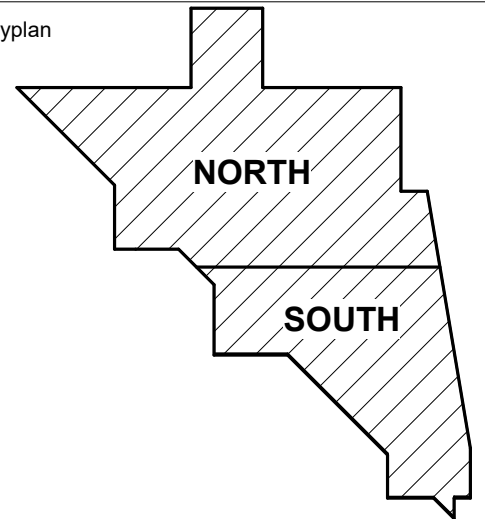
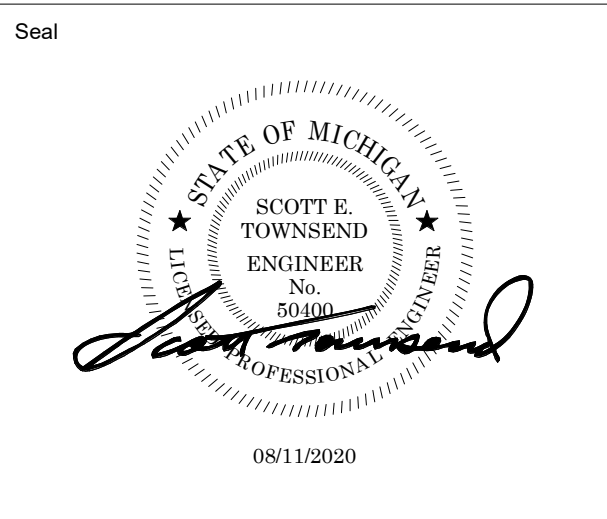
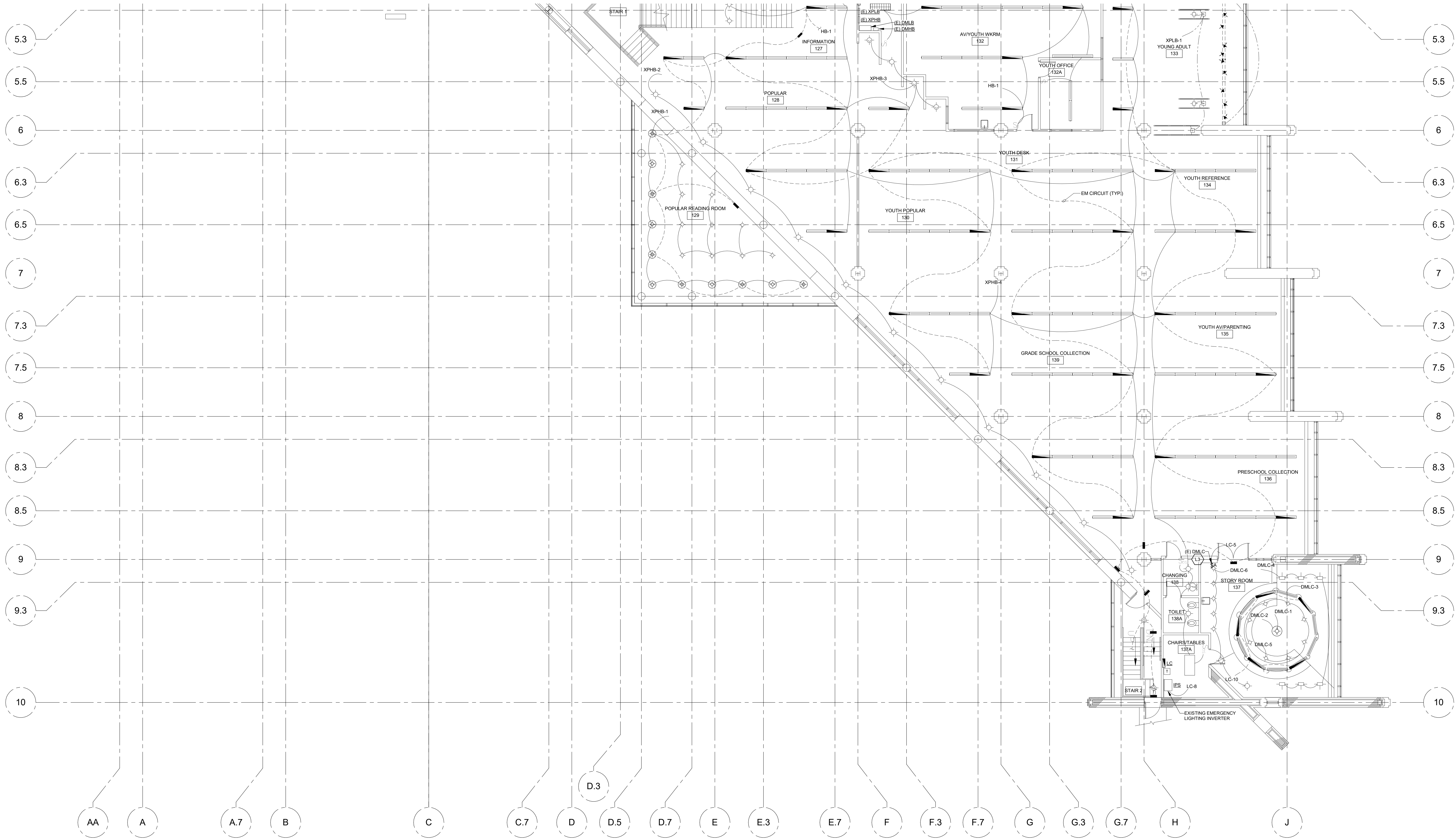
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LIGHTING GENERAL NOTES

1. ALL LIGHTS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. ALL EXISTING CIRCUITING IS SHOWN FOR REFERENCE ONLY.

LIGHTING KEYED NOTES

- L1 REPLACE EXISTING LUTRON GRAFIK 5000 SYSTEM WITH NEW LUTRON QUANTUM LIGHT MANAGEMENT HUB (QP3). REUSE EXISTING CONTROL PANEL ENCLOSURE AND WIRES FOR NEW SYSTEM. RETERMINATE EXISTING LOW VOLTAGE AND POWER WIRING TO NEW CONTROL UNIT AS REQUIRED.
- L2 REMOVE EXISTING LIGHT SWITCH AND PROVIDE BLANK COVER PLATE. REMOVE ASSOCIATED WIRING BACK TO NEAREST COMMON JUNCTION BOX.
- L3 REPLACE EXISTING LIGHT SWITCH WITH NEW LUTRON 5 BUTTON WALLSTATION. COORDINATE FINAL BUTTON PROGRAMMING WITH OWNER.
- L5 REMOVE EXISTING STUDY LIGHT AND MOUNTING BASE. CENTER NEW L1 FIXTURE ON TABLE. USE EXISTING CABLE MANAGEMENT UNDER TABLE AND PLUG INTO EXISTING POKE-THRU BELOW TABLE.
- L6 REPLACE EXISTING WALL MOUNTED REFLECTOR FIXTURE WITH NEW LED FIXTURE. REUSE EXISTING WALL MOUNT AND WIRES FOR NEW FIXTURE.
- L7 REMOVE EXISTING STUDY LIGHTS AND REUSE EXISTING STUDY LIGHT MOUNTING BASE FOR NEW LED FIXTURE. PLUG FIXTURE INTO NEAREST POKE-THRU BELOW TABLES.



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SHEET TITLE:
FIRST FLOOR SOUTH LIGHTING PLAN

SHEET NUMBER:
EL-101B

POWER KEYED NOTES

R1 PROVIDE TABLE MONUMENT WITH (4) SIMPLEX AND (2) DUAL USB, MOCKETT MEDIUM DUAL POP-UP POWER GROMMET IN SATIN ALUMINUM, IN CENTER OF TABLE. ENLARGE EXISTING 6" DIAMETER HOLE TO MANUFACTURE REQUIREMENTS. USE EXISTING CABLE MANAGEMENT UNDER TABLE AND PLUG INTO POKE-THRU BELOW TABLE.

LIGHTING GENERAL NOTES

1. ALL LIGHTS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. ALL EXISTING CIRCUITING IS SHOWN FOR REFERENCE ONLY.

LIGHTING KEYED NOTES

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L7 REMOVE EXISTING STUDY LIGHTS AND REUSE EXISTING STUDY LIGHT MOUNTING BASE FOR NEW LED FIXTURE. PLUG FIXTURE INTO NEAREST POKE-THRU BELOW TABLES.



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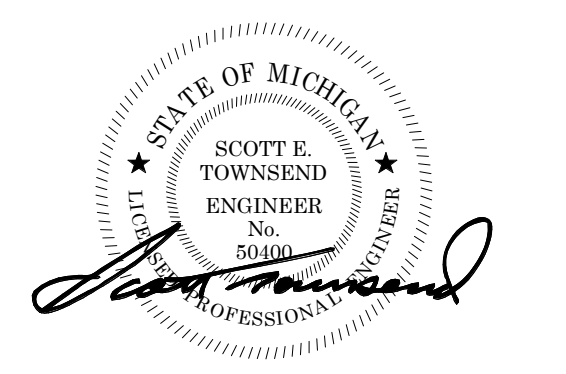


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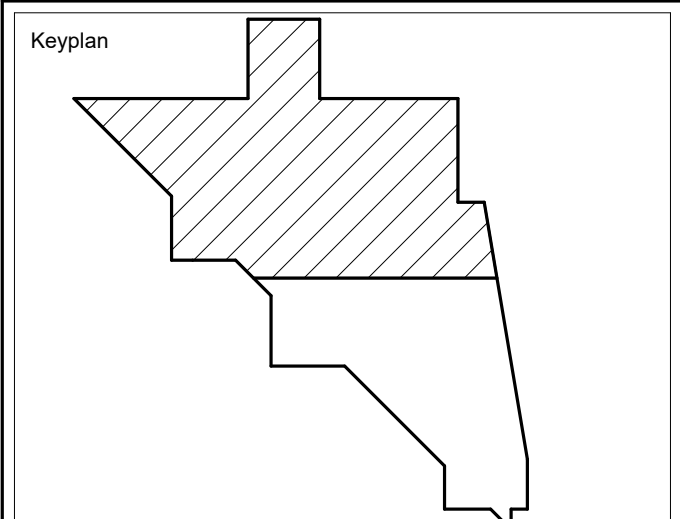
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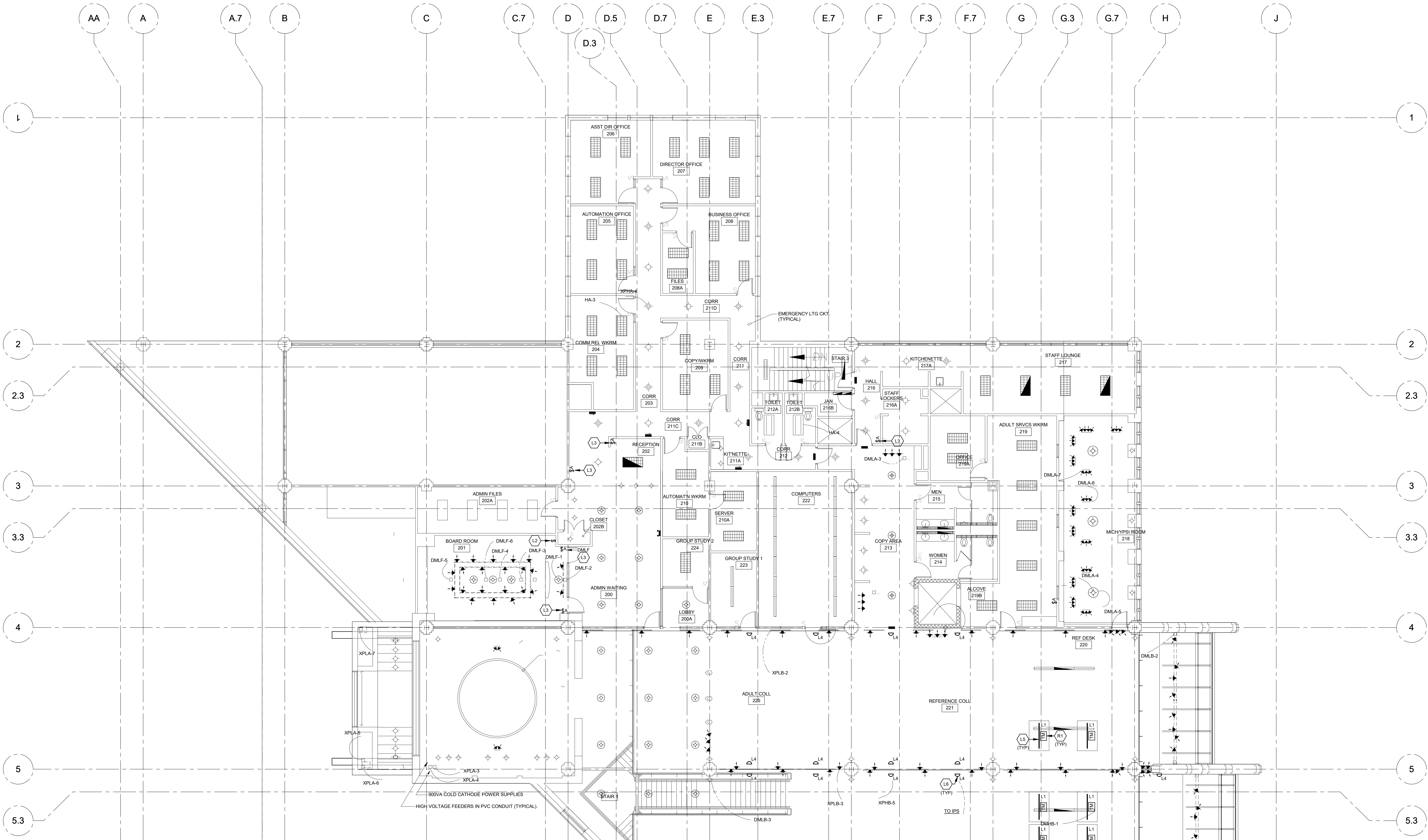
SHEET TITLE:

SECOND FLOOR NORTH LIGHTING PLAN

SHEET NUMBER:

EL-102A

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SECOND FLOOR NORTH LIGHTING PLAN
SCALE: 1/8" = 1'-0"

DIMMER PANEL SCHEDULE - PANEL: DMLC - STORY ROOM. Table with columns: ZONE, LOAD DESCRIPTION, CIRCUIT #, VOLTAGE, FEED TYPE, LOAD TYPE, FIXTURE LOAD, QUANTITY, TOTAL LOAD. Includes sub-total KVA: 1.383.

DIMMER PANEL SCHEDULE - PANEL: DMFL - BOARD ROOM. Table with columns: ZONE, LOAD DESCRIPTION, CIRCUIT #, VOLTAGE, FEED TYPE, LOAD TYPE, FIXTURE LOAD, QUANTITY, TOTAL LOAD. Includes sub-total KVA: 1.492.

DIMMER PANEL SCHEDULE - PANEL: DMHA. Table with columns: ZONE, LOAD DESCRIPTION, LOAD TYPE, LOAD, DIMMER CIRCUIT, A, B, C. Includes sub-total KVA: 1.383.

DIMMER PANEL SCHEDULE - PANEL: DMBA. Table with columns: ZONE, LOAD DESCRIPTION, LOAD TYPE, LOAD, DIMMER CIRCUIT, A, B, C. Includes sub-total KVA: 1.492.

DIMMER PANEL SCHEDULE - PANEL: DMHB. Table with columns: ZONE, LOAD DESCRIPTION, LOAD TYPE, LOAD, DIMMER CIRCUIT, A, B, C. Includes sub-total KVA: 1.383.

DIMMER PANEL SCHEDULE - PANEL: DMNB. Table with columns: ZONE, LOAD DESCRIPTION, LOAD TYPE, LOAD, DIMMER CIRCUIT, A, B, C. Includes sub-total KVA: 1.492.

RELAY PANEL SCHEDULE - PANEL: XPHA. Table with columns: CONTROL ZONE, CIRCUIT, LOAD DESCRIPTION, LOAD TYPE, LOAD. Includes sub-total KVA: 1.383.

RELAY PANEL SCHEDULE - PANEL: XPHB. Table with columns: CONTROL ZONE, CIRCUIT, LOAD DESCRIPTION, LOAD TYPE, LOAD. Includes sub-total KVA: 1.492.

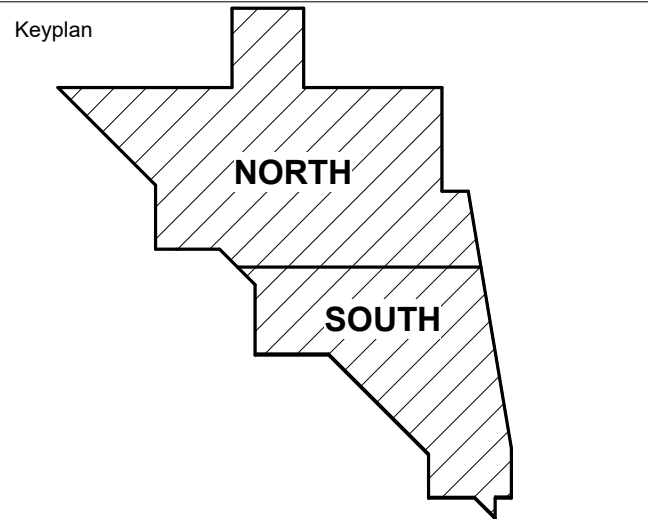
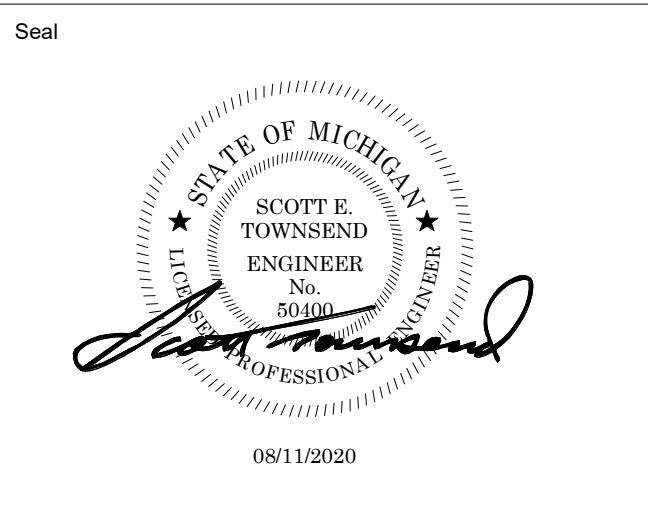
RELAY PANEL SCHEDULE - PANEL: XPHB. Table with columns: CONTROL ZONE, CIRCUIT, LOAD DESCRIPTION, LOAD TYPE, LOAD. Includes sub-total KVA: 1.383.

RELAY PANEL SCHEDULE - PANEL: XPLB. Table with columns: CONTROL ZONE, CIRCUIT, LOAD DESCRIPTION, LOAD TYPE, LOAD. Includes sub-total KVA: 1.492.

ALL INFORMATION IN THESE SCHEDULES HAS BEEN TAKEN FROM EXISTING DRAWINGS. CONTRACTOR TO VERIFY IN FIELD.



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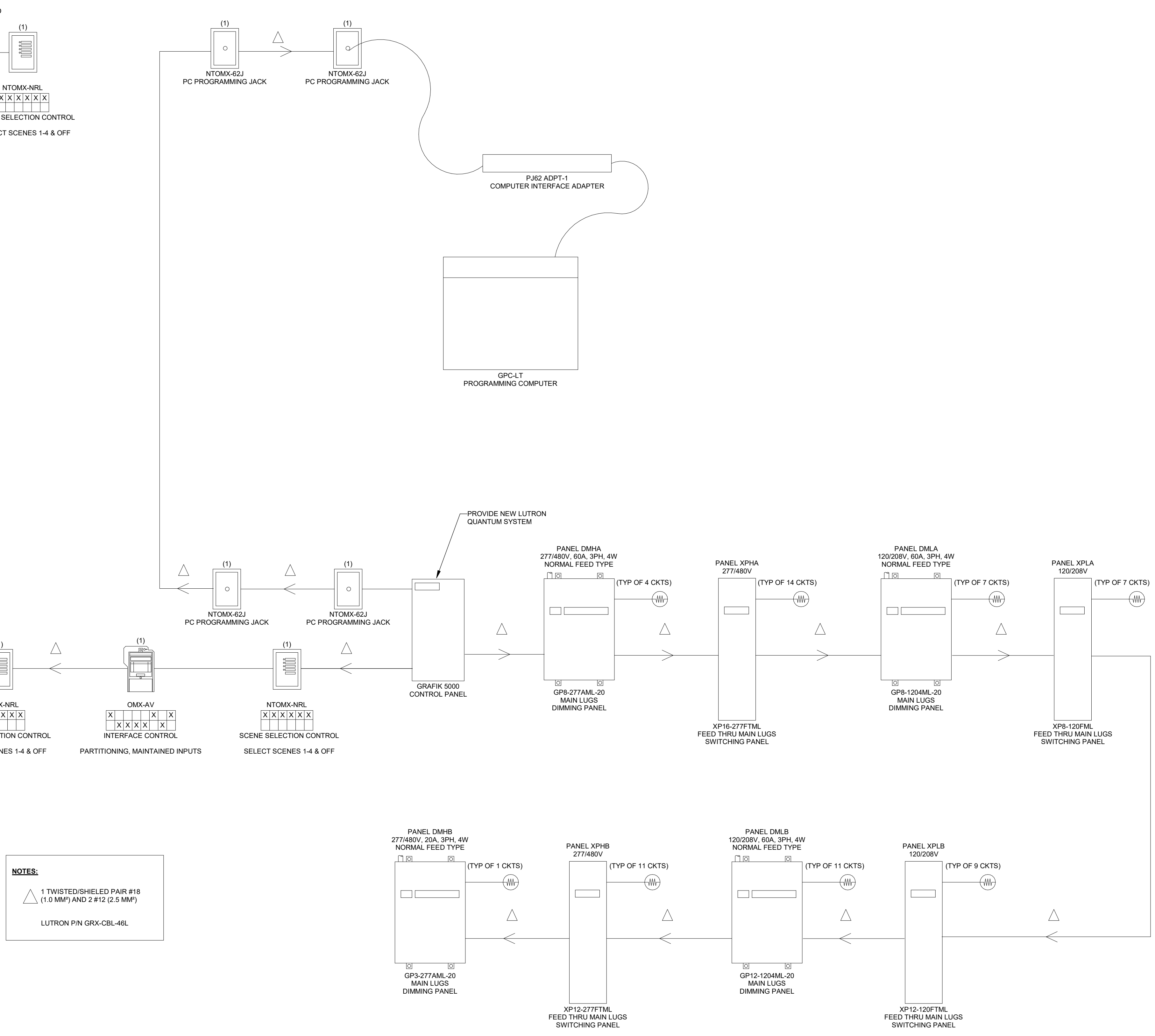
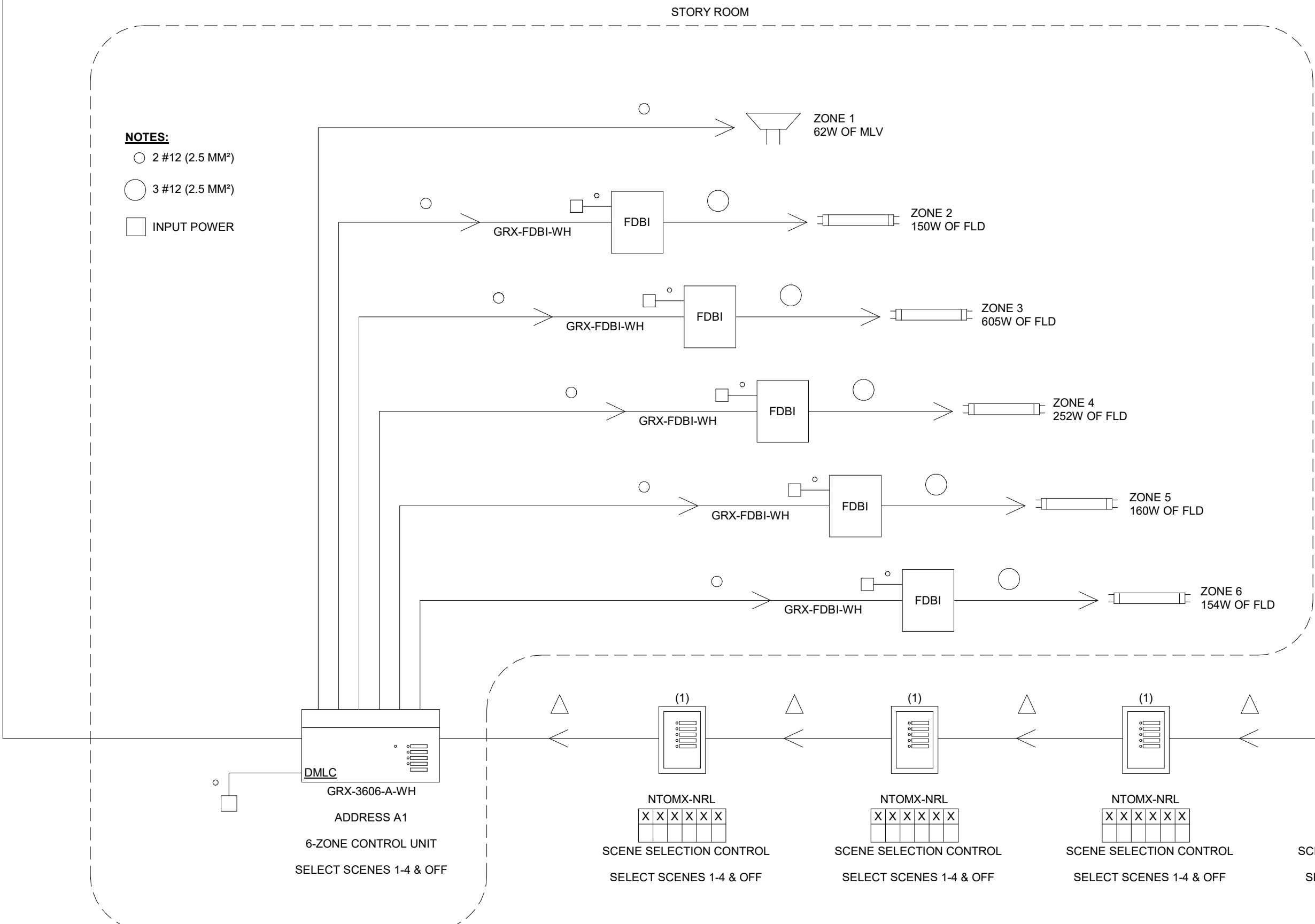
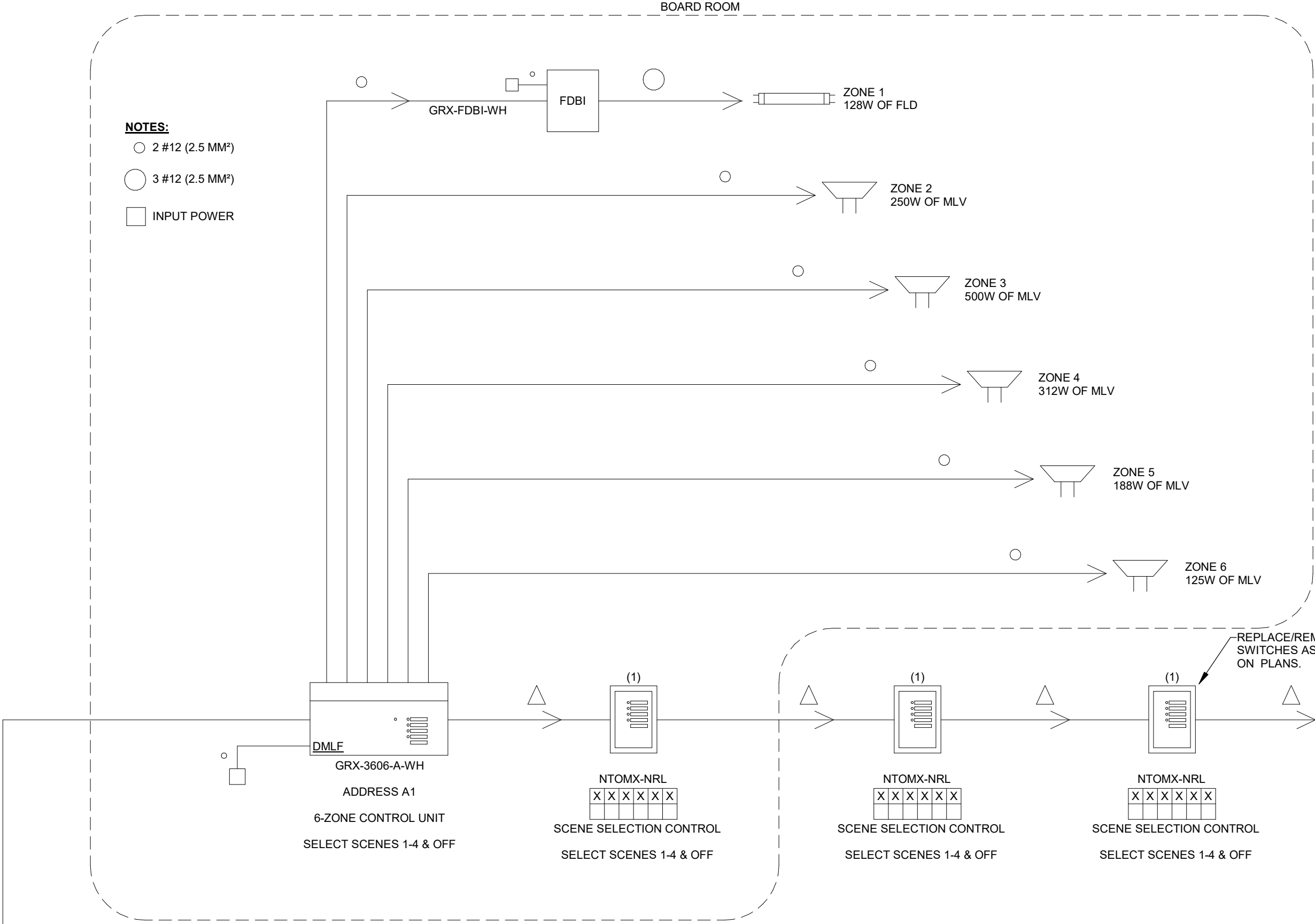


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SHEET TITLE: PANEL SCHEDULES

SHEET NUMBER: E-600

CONTRACTOR MAY PROPOSE TO
 PROVIDE A COMPLETELY NEW
 SYSTEM UTILIZING ACUITY NLIGHT
 WIRELESS CONTROLS TO REPLACE
 ALL LUTRON COMPONENTS.



EXISTING ELECTRICAL ONE-LINE/RISER DIAGRAM
 NO SCALE

FOR REFERENCE ONLY

