

SECTION / PARAGRAPH NO.	SPECIFIED PRODUCT	PROPOSED SUBSTITUTION / MODEL
None		

Changes to Drawings

5. Replace Sheet ED102 in its entirety.
6. Replace Sheet ED121 in its entirety.
7. Replace Sheet EP101 in its entirety.
8. Replace Sheet EL122 in its entirety.

END OF ADDENDUM NO. 02



21 W. Superior St., Ste 500 | Duluth, MN 55802 | 218.727.8446

CLIENT:
**DULUTH TRANSIT
AUTHORITY (DTA)**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

GENERAL SHEET NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND EQUIPMENT IN PROJECT AREA, UNLESS NOTED OTHERWISE. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST REMAINING DEVICE, UNLESS NOTED OTHERWISE. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS/ BRANCH CIRCUITS TO ELECTRICAL DEVICES AND / OR EQUIPMENT TO REMAIN, COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.
- E. EXISTING LIGHTING FIXTURES AND DEVICES SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.
- F. PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.
- G. DISCONNECT AND REMOVE WALL-MOUNTED SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

KEYED SHEET NOTES

- 1. REMOVE EXISTING SPEAKER TO FACILITATE CEILING WORK BY OTHER TRADES. RETAIN SPEAKER AS WELL AS CONDUIT, CONDUCTORS AND CABLES FOR RE-INSTALLATION IN SAME VICINITY.

THIS SQUARE APPEARS 1/2"x1/2"
ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
1	10/24/2022	100% DOCUMENTS

NO	DATE	REVISION
1	12/27/2022	ADDENDUM 02

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: *Mark J. Vincent*
Typed or Printed Name: Mark J. Vincent
Date: 10/24/2022 Reg. No.: 52349

COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.

PROJECT NAME:
**OPS CENTER OFFICE
AND TOILET REMODEL**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

DRAWING TITLE:
**OFFICE ELECTRICAL
DEMOLITION PLANS**

DRAWN BY: AML
CHECKED BY: MJV
PROJ. NO: 190559
DRAWING NO:

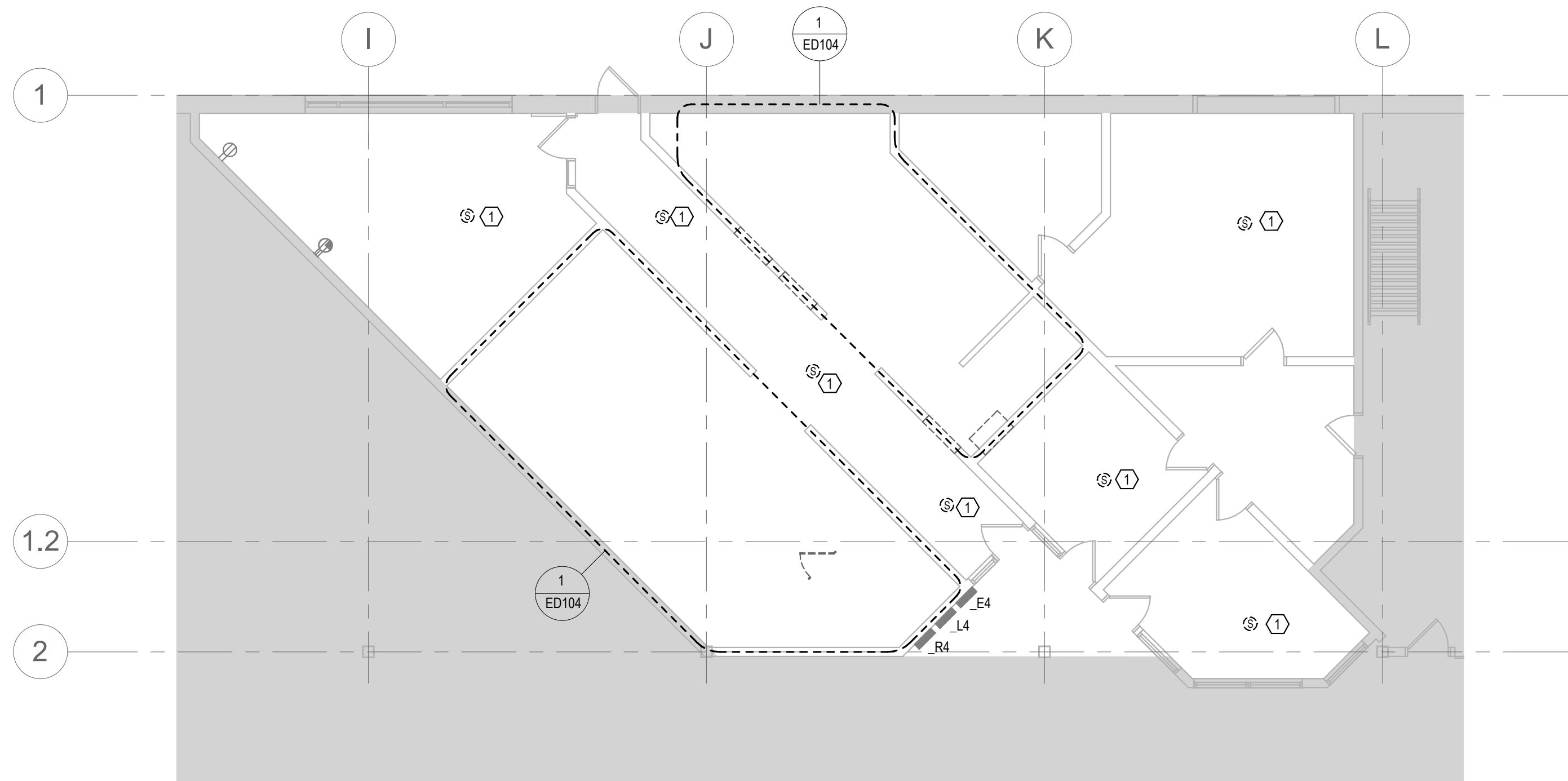
ED102

D

C

B

A



1 LEVEL 1 MECHANICS AREA ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

BM 360/190559 DTA Office Remodel/190559 DTA Ops Ctr Office Redesign MEP20.rvt
12/27/2022 1:22:17 PM



21 W. Superior St., Ste 500 | Duluth, MN 55802 | 218.727.8446

CLIENT:
**DULUTH TRANSIT
AUTHORITY (DTA)**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

GENERAL SHEET NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. EXISTING LIGHTING FIXTURES AND DEVICES SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.
- C. DISCONNECT AND REMOVE ALL LIGHTING FIXTURES AND DEVICES IN PROJECT AREA, UNLESS NOTED OTHERWISE. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST REMAINING DEVICE, UNLESS NOTED OTHERWISE. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS TO LIGHTING FIXTURES AND / OR DEVICES TO REMAIN, COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. PROVIDE CONDUIT AND ELECTRICAL WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVE ANY LIGHTING FIXTURES AND / OR DEVICES TO REMAIN.
- E. PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.
- F. DISCONNECT AND REMOVE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

KEYED SHEET NOTES

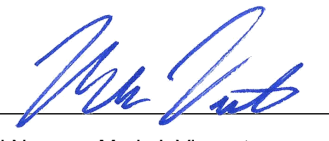
- 1. NOTE

THIS SQUARE APPEARS 1/2"x1/2"
ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
1	10/24/2022	100% DOCUMENTS

NO	DATE	REVISION
1	12/27/2022	ADDENDUM 02

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: 
 Typed or Printed Name: Mark J. Vincent
 Date: 10/24/2022 Reg. No.: 52349

COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.

PROJECT NAME:
**OPS CENTER OFFICE
AND TOILET REMODEL**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

DRAWING TITLE:
**OFFICE LIGHTING
DEMOLITION PLANS**

DRAWN BY: AML
 CHECKED BY: MJV
 PROJ. NO: 190559
 DRAWING NO:



D

C

B

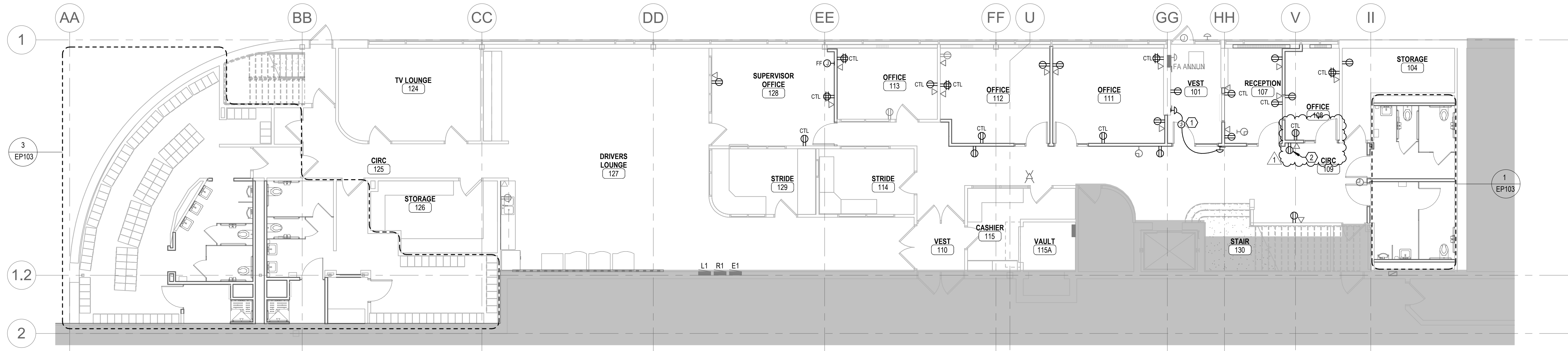
A



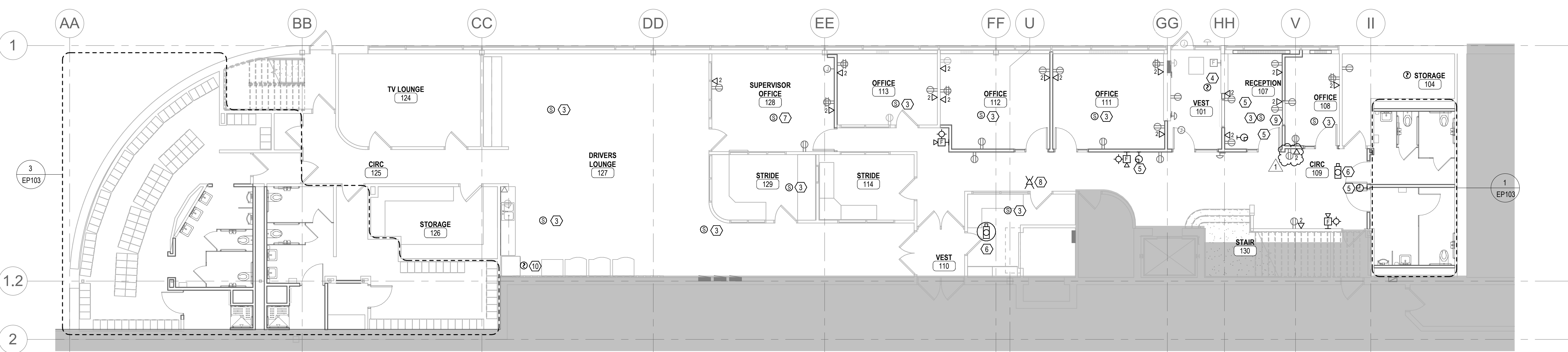
1 LEVEL 1 MECHANICS AREA LIGHTING DEMOLITION PLAN
 1/8" = 1'-0"

BM 360/190559 DTA Office Remodel/190559 DTA Ops Ctr Office Redesign MEP20.rvt
12/27/2022 1:22:17 PM

CLIENT:
**DULUTH TRANSIT
 AUTHORITY (DTA)**
 2402 WEST MICHIGAN ST.
 DULUTH, MINNESOTA 55806



1 LEVEL 1 POWER PLAN
 1/8" = 1'-0"



2 LEVEL 1 TECHNOLOGY PLAN
 1/8" = 1'-0"

THIS SQUARE APPEARS 1/2"x1/2"
 ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
10/24/2022	100% DOCUMENTS	
2	12/27/2022	ADDENDUM 02
1	12/15/2022	ADDENDUM 01
NO	DATE	REVISION

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: *Mark J. Vincent*
 Typed or Printed Name: Mark J. Vincent
 Date: 10/24/2022 Reg. No.: 52349

COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.

PROJECT NAME:
**OPS CENTER OFFICE
 AND TOILET REMODEL**
 2402 WEST MICHIGAN ST.
 DULUTH, MINNESOTA 55806

DRAWING TITLE:
**OFFICE POWER AND
 TECHNOLOGY PLANS**

DRAWN BY: AML
 CHECKED BY: MJV
 PROJ. NO.: 190559
 DRAWING NO.:

EP101

GENERAL SHEET NOTES

- A. REFER TO "TYPICAL DEVICE MOUNTING DETAIL" FOR DEVICE MOUNTING HEIGHTS AND ADJACENCIES.
- B. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT WALL-MOUNTED DEVICE LOCATIONS.
- C. REFER TO PANEL BOUNDARIES ON PLAN FOR PANEL CIRCUITING INFORMATION.
- D. REFER TO EQUIPMENT SCHEDULES FOR SPECIFIC EQUIPMENT CONNECTION INFORMATION.
- E. PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 27 CONTRACTOR:
 1. TECHNOLOGY CABLING
 2. TECHNOLOGY EQUIPMENT ROOM COMPONENTS
- F. PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 28 CONTRACTOR:
 1. FIRE ALARM SYSTEM
 2. SECURITY MANAGEMENT SYSTEM
 - a. ACCESS CONTROL
- G. STUB TECHNOLOGY CONDUIT INTO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.

- H. PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.
- I. UNLESS NOTED OTHERWISE, CONNECT NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUITS FROM PANELBOARD R1 THAT WERE SALVAGED DURING DEMOLITION. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS, AS REQUIRED, TO MAKE FINAL CONNECTIONS TO DEVICES IN NEW LOCATIONS.
- J. ROUTE ALL NEW DATA CABLES TO COMPUTER / SERVER ROOM 206, LOCATED ON THE SECOND FLOOR ABOVE OFFICE 111. PROVIDE (1) NEW 48 PORT PATCH PANEL IN EXISTING RACK TO SERVE PROPOSED DEVICES.

KEYED SHEET NOTES

- 1. PROVIDE SEPARATE CIRCUIT FROM PANEL R1 FOR POWER DOOR OPERATOR, PROVIDED BY OTHERS. RECEIVE ACTUATORS FROM GC AND INSTALL IN LOCATIONS INDICATED. COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO INSTALLATION. PROVIDE CONDUIT AND CONDUCTORS TO CONNECT ACTUATORS FOR A COMPLETE AND OPERABLE SYSTEM.
- 2. PROVIDE DEDICATED 20A CIRCUIT FOR COPIER.
- 3. RE-INSTALL EXISTING SPEAKER SALVAGED DURING DEMOLITION. PROVIDE SPEAKER CABLE TO RE-CONNECT SPEAKER IN NEW LOCATION WITHIN THE SAME VICINITY.
- 4. RE-INSTALL EXISTING FIRE ALARM ANNUNCIATOR PANEL SALVAGED DURING DEMOLITION. PROVIDE FIRE ALARM CABLE TO RE-CONNECT PANEL IN NEW LOCATION WITHIN THE SAME VICINITY.
- 5. RE-INSTALL EXISTING CLOCK SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.
- 6. RE-INSTALL EXISTING CAMERA SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.
- 7. PROVIDE NEW SPEAKER. PROVIDE SPEAKER CABLE FROM EXISTING PA SYSTEM LOCATED IN COMPUTER / SERVER ROOM 206.
- 8. PROVIDE NEW CAT6A CABLE FROM COMPUTER / SERVER ROOM 206 TO WIRELESS ACCESS POINT LOCATION. TERMINATE CABLE IN FEMALE JACK. PROVIDE 10' SERVICE LOOP NEATLY COILED AND SUPPORTED TO STRUCTURE ABOVE ACCESSIBLE CEILING. WIRELESS ACCESS POINT, MOUNTING HARDWARE AND PATCH CABLE SHALL BE PROVIDED BY OWNER.
- 9. PROVIDE ELECTRONIC RELEASE BUTTON BY RECEPTION DESK TO ALLOW RECEPTIONIST TO RELEASE THE ELECTRIC STRIKES ON DOORS 101.1, 101.2 AND 102. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE AND OPERABLE SYSTEM.
- 10. RE-INSTALL EXISTING SMOKE DETECTOR SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.



21 W. Superior St., Ste 500 | Duluth, MN 55802 | 218.727.8446

CLIENT:
**DULUTH TRANSIT
AUTHORITY (DTA)**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

GENERAL SHEET NOTES

- A. REFER TO "TYPICAL DEVICE MOUNTING DETAIL" FOR DEVICE MOUNTING HEIGHTS AND ADJACENCIES.
- B. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT WALL-MOUNTED DEVICE LOCATIONS.
- C. REFER TO PANEL BOUNDARIES ON PLAN FOR PANEL CIRCUITING INFORMATION.
- D. REFER TO EQUIPMENT SCHEDULES FOR SPECIFIC EQUIPMENT CONNECTION INFORMATION.
- E. PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 27 CONTRACTOR:
 - 1. TECHNOLOGY CABLING
 - 2. TECHNOLOGY EQUIPMENT ROOM COMPONENTS
- F. PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 28 CONTRACTOR:
 - 1. FIRE ALARM SYSTEM
 - 2. SECURITY MANAGEMENT SYSTEM
 - a. ACCESS CONTROL
- G. STUB TECHNOLOGY CONDUIT INTO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.
- H. PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.
- I. UNLESS NOTED OTHERWISE, CONNECT NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUITS FROM PANELBOARD R1 THAT WERE SALVAGED DURING DEMOLITION. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS, AS REQUIRED, TO MAKE FINAL CONNECTIONS TO DEVICES IN NEW LOCATIONS.
- J. ROUTE ALL NEW DATA CABLES TO COMPUTER / SERVER ROOM 206, LOCATED ON THE SECOND FLOOR ABOVE OFFICE 111. PROVIDE (1) NEW 48 PORT PATCH PANEL IN EXISTING RACK TO SERVE PROPOSED DEVICES.

KEYED SHEET NOTES


- 1. RE-INSTALL SPEAKER SALVAGED DURING DEMOLITION IN THE SAME APPROXIMATE VICINITY. PROVIDE SPEAKER CABLE TO EXTEND EXISTING PA CIRCUIT TO REVISED SPEAKER LOCATION.

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
10/24/2022	100% DOCUMENTS	

NO	DATE	REVISION
1	12/27/2022	ADDENDUM 02

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: 
 Typed or Printed Name: Mark J. Vincent
 Date: 10/24/2022 Reg. No.: 52349

COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.

PROJECT NAME:
**OPS CENTER OFFICE
 AND TOILET REMODEL**
 2402 WEST MICHIGAN ST.
 DULUTH, MINNESOTA 55806

DRAWING TITLE:
**OFFICE POWER AND
 TECHNOLOGY PLANS**

DRAWN BY: AML
 CHECKED BY: MJV
 PROJ. NO.: 190559
 DRAWING NO.:

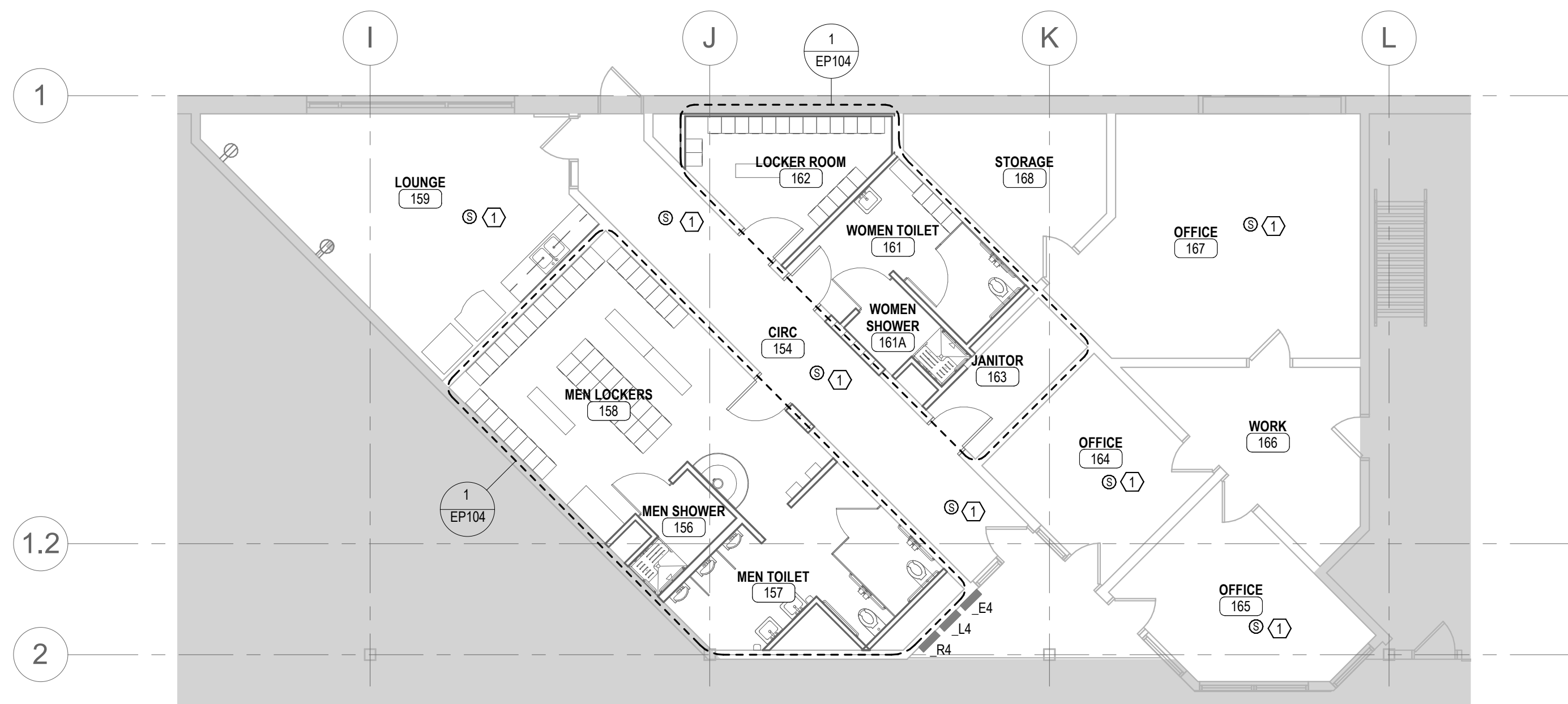
EP102

D

C

B

A



1 LEVEL 1 MECHANICS AREA POWER AND TECHNOLOGY PLAN
1/8" = 1'-0"

B:\190559\190559 DTA Office Remodel\190559 DTA Ops Ctr Office Redesign MEP20.rvt
12/27/2022 1:22:19 PM



21 W. Superior St., Ste 500 | Duluth, MN 55802 | 218.727.8446

CLIENT:
**DULUTH TRANSIT
AUTHORITY (DTA)**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

GENERAL SHEET NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS WITHIN CEILING.
- B. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT BUILDING / WALL-MOUNTED LIGHTING FIXTURE AND CONTROLS LOCATIONS.
- C. REFER TO LIGHTING SCHEDULES FOR SPECIFIC FIXTURE AND CONTROLS INFORMATION.
- D. REFER TO SPECIFICATION SECTION 26 0519 FOR REQUIRED CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- E. PROVIDE 6" FLEXIBLE METAL CONDUIT FOR RECESSED LIGHTING FIXTURES INSTALLED IN ACCESSIBLE LAY-IN CEILINGS.
- F. PROVIDE LIGHTING CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS (CATALOG NUMBER, LOCATION AND QUANTITY); REFER TO SPECIFICATION SECTION 26 0943. DEVICES SHOWN ARE FOR GENERAL DESIGN INTENT ONLY.
- G. PROVIDE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- H. UNLESS NOTED OTHERWISE, CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS FROM PANEL L4, SALVAGED DURING DEMOLITION. CONTROL NEW LIGHT FIXTURES AS INDICATED.
- I. EMERGENCY EGRESS LIGHT FIXTURES, INDICATED BY SOLID SHADING, SHALL BE CONNECTED TO EXISTING LIGHTING CIRCUITS FROM PANEL E4, SALVAGED DURING DEMOLITION. CONTROL NEW CORRIDOR AND LOBBY EMERGENCY EGRESS LIGHT FIXTURES FROM EXISTING LIGHTING CONTROL PANEL.
- J. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING EXIT LIGHTING CIRCUIT SERVED FROM PANEL E1 TO NEW EXIT LIGHTS.

KEYED SHEET NOTES

- 1.

THIS SQUARE APPEARS 1/2"x1/2"
ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
10/24/2022	100% DOCUMENTS	

NO	DATE	REVISION
1	12/27/2022	ADDENDUM 02

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:

Typed or Printed Name: Mark J. Vincent

Date: 10/24/2022 Reg. No.: 52349

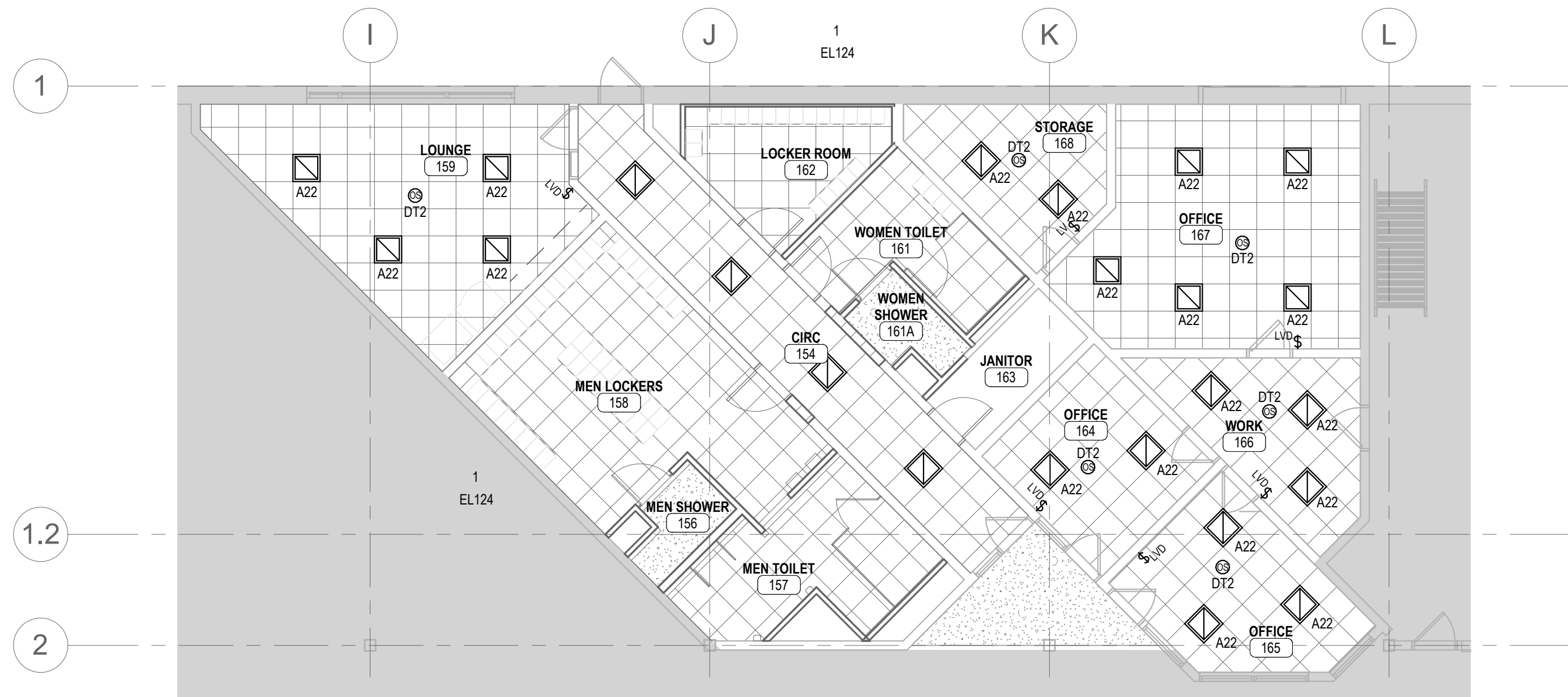
COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.

PROJECT NAME:
**OPS CENTER OFFICE
AND TOILET REMODEL**
2402 WEST MICHIGAN ST.
DULUTH, MINNESOTA 55806

DRAWING TITLE:
**OFFICE LIGHTING
PLANS**

DRAWN BY: AML
CHECKED BY: MJV
PROJ. NO.: 190559
DRAWING NO.:

EL122



1 LEVEL 1 MECHANICS AREA LIGHTING PLAN
1/8" = 1'-0"

B:\190559\190559 DTA Office Remodel\190559 DTA Ops Ctr Office Redesign MEP20.rvt
12/27/2022 1:22:17 PM