

HCC ENGINEERING LIMITED

Design and Technology Services Group

40 Eglinton Avenue East

Suite 600

Toronto, Ontario

M4P 3A2

Tel: (416) 932-2423

Tender Addendum #E-01

Project: **Washroom Renovation
Port Perry Highschool
160 Rosa Street
Port Perry, Ontario**

HCC Engineering Project No.: **23105
BCIN# 28954**

Date: **February 20, 2024**

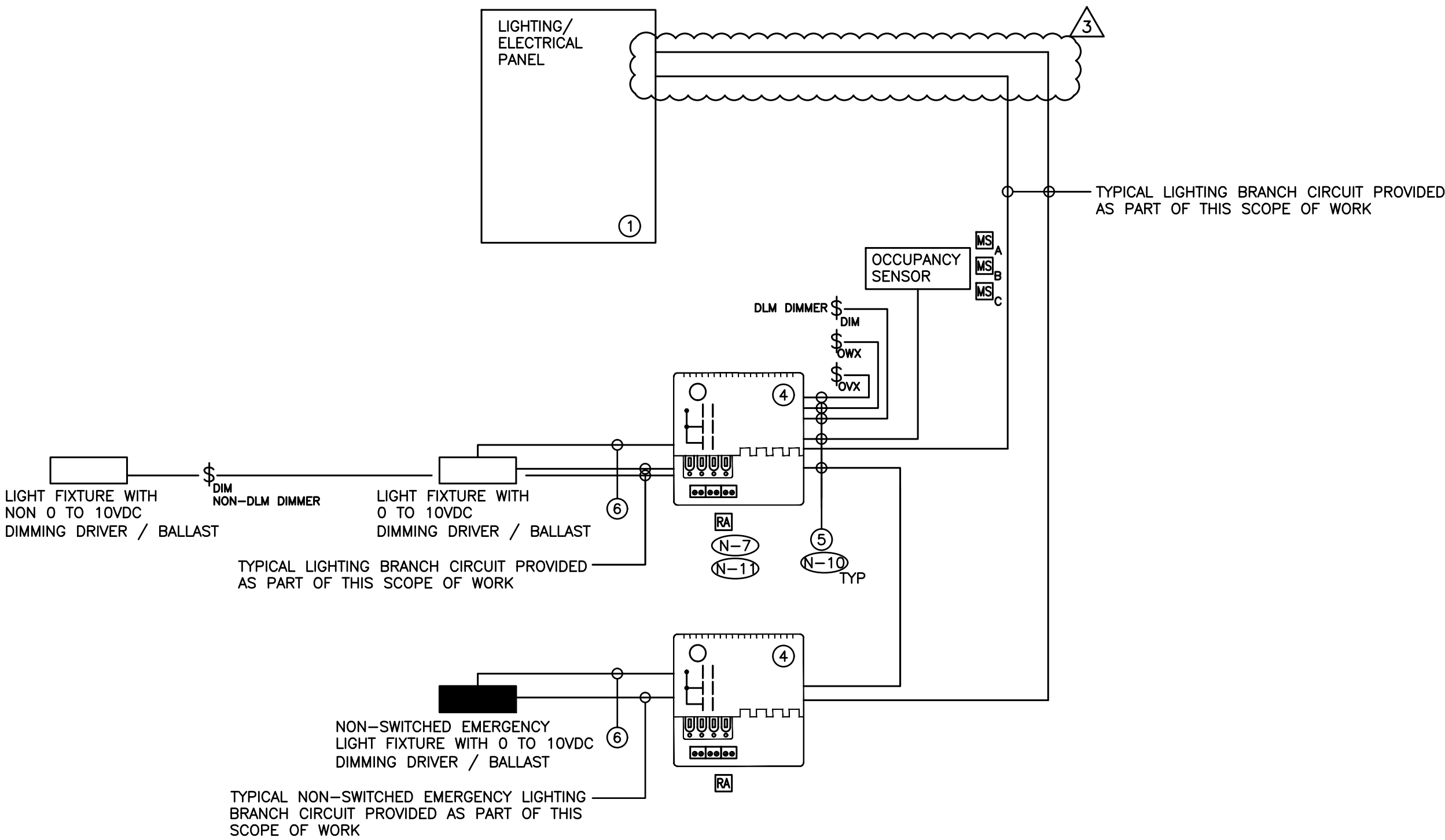
1. General

1. This tender addendum is an integral part of the Specifications and Drawings and shall form an integral part of the Contract Documents.

2. Drawings

1. Drawing No. E-1.1 (Reissued with Addendum)
2. Drawing No. E-1.2 (Reissued with Addendum)
3. Drawing No. E-1.3 (Reissued with Addendum)
4. Drawing No. E-2.1 (Reissued with Addendum)
5. Drawing No. E-2.2 (Reissued with Addendum)
6. Drawing No. E-3.2 (Reissued with Addendum)
7. Drawing No. E-5.2 (Reissued with Addendum)

End of Tender Addendum #E-01



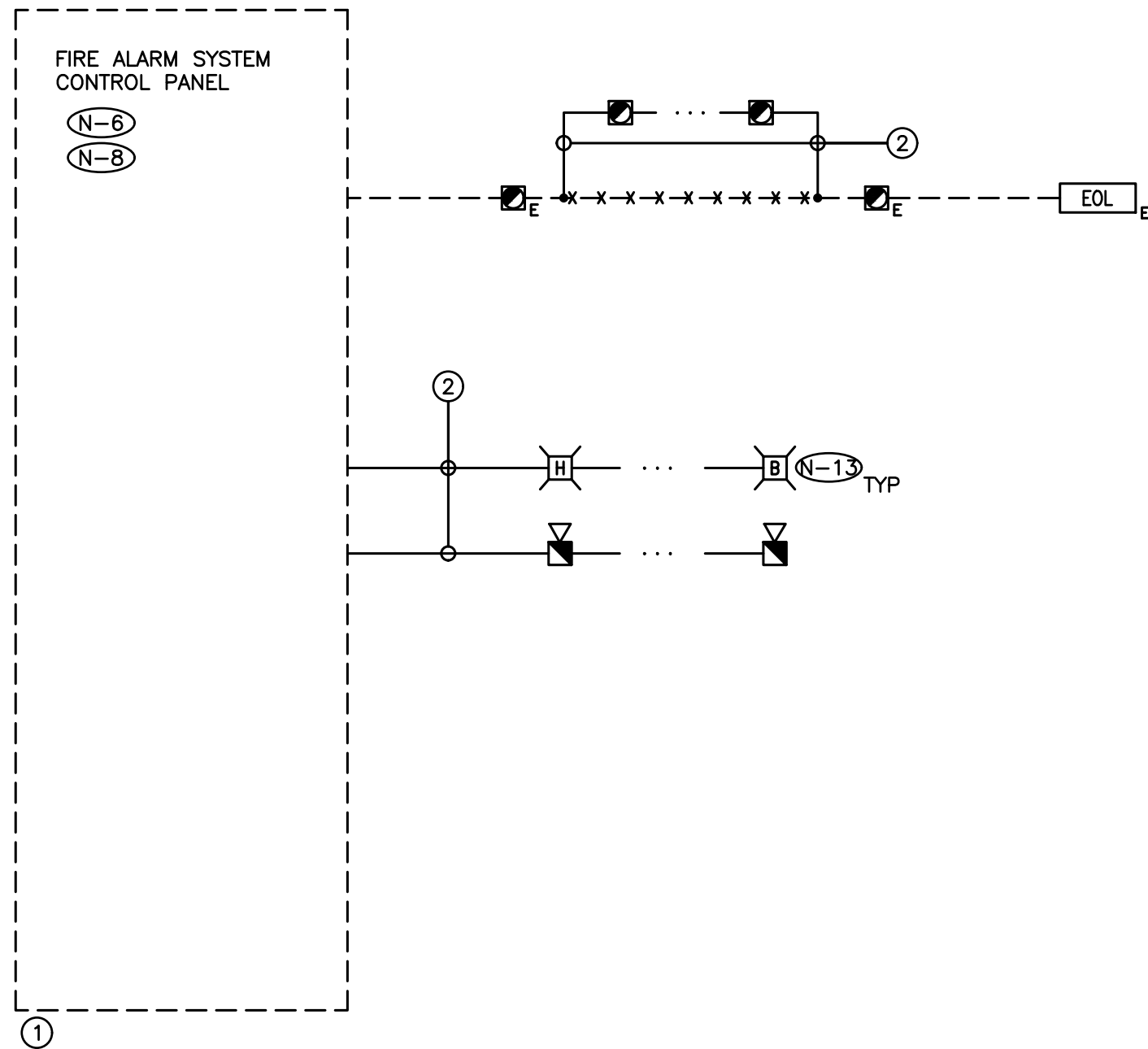
- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR DEVICE QUANTITY AND LOCATIONS. PROVIDE QUANTITY OF HARDWARE, ZONE CONTROLLERS, ROOM CONTROLLERS, PLUG LOAD CONTROLLERS, SENSORS, DEVICES, CONDUIT, WIRE, CONFIGURATION TOOLS, ETC. TO ENSURE A FULLY OPERATIONAL LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- (N-2) NOT USED.
- (N-3) LIGHT LEVEL OUTPUT (IE, DIMMING LEVEL) FOR EACH AND EVERY FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK IN ROOMS/AREAS/CORRIDORS/ ETC., WITH DLM CONTROL TO BE FIELD ADJUSTED ON SITE WITH CLIENT POST OCCUPANCY. TARGET LIGHT LEVELS FOR EACH LOW VOLTAGE LIGHTING ZONE TO BE PROVIDED BY THE CLIENT POST OCCUPANCY. PROCURE (COORDINATE AND PAY FOR) THE SERVICES OF WATTSTOPPER TO ADJUST, PROGRAM AND COMMISSION THE LIGHTING CONTROL SYSTEM.
- AS PART OF THIS SCOPE OF WORK PROCURE THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO MEASURE AND RECORD LIGHTING LEVELS IN FOOT CANDLES THROUGHOUT THE ENTIRE SCOPES OF WORK AREAS WITH A CALIBRATED LIGHT METER, AFTER ALL FIELD ADJUSTMENTS HAVE BEEN COMPLETED. READINGS SHALL BE TAKEN BASED ON A MINIMUM OF ONE READING FOR EVERY 20' CENTER IN OPEN OFFICE AREAS AND CORRIDORS / HALLWAYS AND ONE READING IN EACH CLOSED OFFICE, MEETING ROOM, BOARDROOM, ETC. ALL LIGHT LEVEL READINGS ARE TO BE TAKEN DURING NON-DAYLIGHT HOURS. PROVIDE A SEALED REPORT IDENTIFYING LIGHT LEVEL READINGS.
- (N-4) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
- (N-5) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-7) PROVIDE ROOM CONTROLLERS TO ACCOMMODATE ALL LIGHTING ZONES IN CLOSED ROOMS (IE. OFFICES, MEETING ROOMS, ETC.) PROVIDED AS PART OF THIS SCOPE OF WORK. MAXIMUM OF TWO (2) SWITCH LEGS PER ROOM CONTROLLER.
- (N-8) NOT USED.
- (N-9) ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK IN EXPOSED CEILING AREAS MUST BE INSTALLED WITHIN WALL MOUNTED VENTILATED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK. TYPICAL MOUNTING HEIGHT 8'0" AFF. COORDINATE EXACT MOUNTING HEIGHT FOR EACH ROOM / AREA ON SITE WITH CONSULTANT.
- (N-10) TERMINATE AND TEST ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE TEST RESULTS FOR ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK AT THE END OF CONSTRUCTION. TEST RESULTS SHALL BE INCLUDED AS PART OF THE CLOSE OUT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-11) REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS OVER AND ABOVE THOSE DETAILS ON THIS SCHEMATIC.
- (N-12) PROVIDE POWER PACKS, AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. POWER PACKS NOT SHOWN ON REFLECTED CEILING PLANS.
- (N-13) ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE FOUR (4) HOURS OF ON SITE COORDINATION TIME WITH WATTSTOPPER PRIOR TO ORDERING LIGHTING SYSTEM COMPONENTS TO CONFIRM DEVICES AND WIRING REQUIREMENTS. ALL CHANGES TO BE REVIEWED AND APPROVED BY CONSULTANT ON SITE PRIOR TO EXECUTION.

- ① TYPICAL RECEPTACLE / LIGHTING PANEL. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS
- ② NOT USED
- ③ NOT USED.
- ④ ON / OFF / DIMMING ROOM CONTROLLER
- ⑤ PLENUM RATED 4 PAIR CAT6 UTP CABLE AS MANUFACTURED BY WATT STOPPER
- ⑥ 0 TO 10VDC CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR.
- - - - - DENOTES EXISTING TO REMAIN.
* - X - X - X - * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR.

INSTALL LOW VOLTAGE CONTROL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, ASHRAE 90.1 2016, ONTARIO BUILDING CODE, ELECTRICAL SAFETY CODE AND THESE DOCUMENTS.

1 LOW VOLTAGE LIGHTING CONTROL SYSTEM WIRING SCHEMATIC
E-1.2 SCALE: NTS

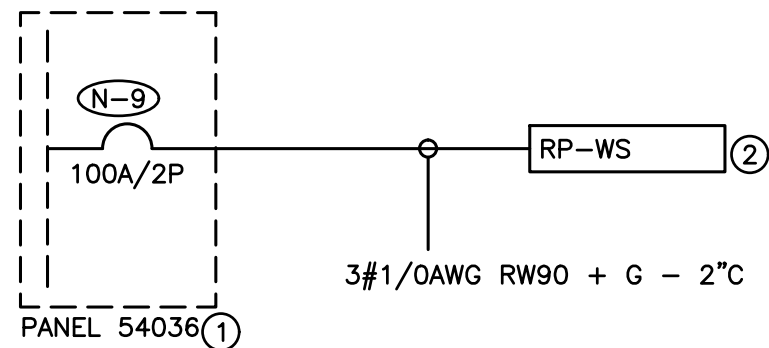


- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF PROVIDE QUANTITY OF STROBE LIGHT CIRCUITS, SPEAKER CIRCUITS, SPEAKER ZONES, INITIATING DEVICE CIRCUITS, HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, ETC. TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.
- (N-2) REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES (IE. WIRE GUARD, EXPLOSION PROOF DEVICES, WEATHER PROOF DEVICES, ETC)
- (N-3) PROVIDE POWER, MI CABLE, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) PROVIDE DEDICATED CORE DRILLED FLOOR AND WALL PENETRATIONS ON EVERY FLOOR AS REQUIRED FOR FIRE ALARM SYSTEM CONDUITS/MI CABLE. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAYING RESULTS.
- (N-5) NOT USED.
- (N-6) MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL/TRANSPONDER AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATIONS.
- (N-7) NOT USED.
- (N-8) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL/TRANSPONDER AS REQUIRED TO SUPPORT THE TOTAL LOAD REQUIREMENTS AT THE COMPLETION OF THIS PROJECT.
- (N-9) PROVIDE 24VDC CIRCUITS FOR STROBES AND OTHER 24VDC DEVICES. MAXIMUM LOAD ON EACH CIRCUIT SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN ON RISER DIAGRAM.
- (N-10) NOT USED.
- (N-11) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
- (N-12) DO NOT REUSE EXISTING FIELD WIRING AND CONDUIT, FIRE ALARM DEVICES, ETC., REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-13) PROVIDE STROBE CIRCUIT SYNCHRONIZATION MODULES.

- ① EXISTING FIRE ALARM SYSTEM CONTROL PANEL - SIMPLEX 4100ES
- ② CONDUIT AND WIRE PER MANUFACTURER'S REQUIREMENTS

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
- - - - - DENOTES EXISTING TO REMAIN
* - X - X - X - * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

2 PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM
E-1.2 SCALE: NTS



- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY PROJECT MANAGER). FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-3) ALL INDOOR DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE TYPE 2 ENCLOSURE, UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-4) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-5) NOT USED.
- (N-6) ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-7) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE ALL INSTALLATION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-8) PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.
- (N-9) PROVIDE NEW BREAKER INDICATED. PROVIDE MOUNTING HARDWARE TO ACCOMMODATE EXISTING PANEL BUS. PROVIDE LUGS TO ACCOMMODATE WIRE SIZE INDICATED. PROVIDE THE SERVICE OF SCHNEIDER ELECTRIC TO EXTEND, REWORK, MODIFY AND RECERTIFY EXISTING PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK.

- ① EXISTING RECEPTACLE PANEL - 120/240V/1PH/3W/225A MAINS/30 CCT/SQ D NQ/10KA RMS
- ② RECEPTACLE PANEL - 120/240V/1PH/3W/100A MCB/42 CCT/SQ D NQ/10KA RMS/RECESSED TRIM FACTORY PAINTED CUSTOM COLOUR (MATCH TO PAINT CHIP TO BE PROVIDED BY ARCHITECT DURING CONSTRUCTION)

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
- - - - - DENOTES EXISTING TO REMAIN
* - X - X - X - * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

3 PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM
E-1.2 SCALE: NTS

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ



NO.	REVISIONS	DATE	BY
-----	-----------	------	----

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3A2
Tel: (416) 932-2423

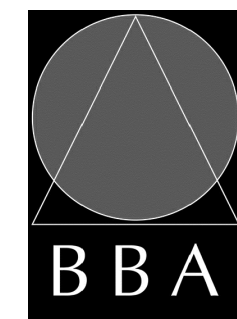
PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL DETAILS



BARRY BRYAN ASSOCIATES

Architects
Engineers
Project Managers
250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5

Tel: (905) 866-5252
Fax: (905) 866-5256
e-mail: bba@bba-archeng.com

DESIGN BY: KZ	DOC CONTROL: DATE:
DRAWN BY: KZ	% COMPLETE:
CHECKED BY: HDC	INITIAL:

DATE:
SEPTEMBER 2023

SCALE:
AS SHOWN

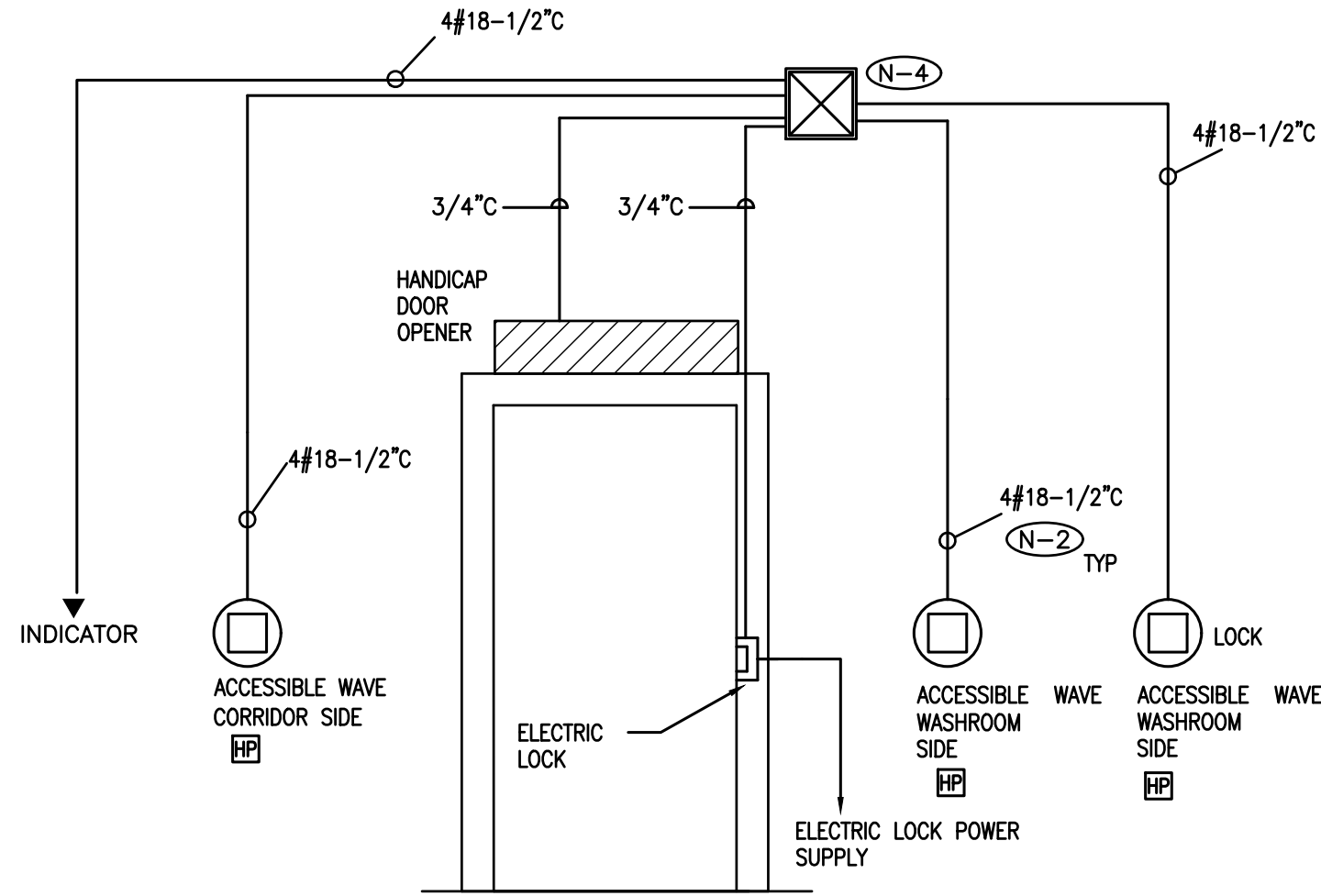
FILE:

PROJECT NO:

23105

DRAWING NO:

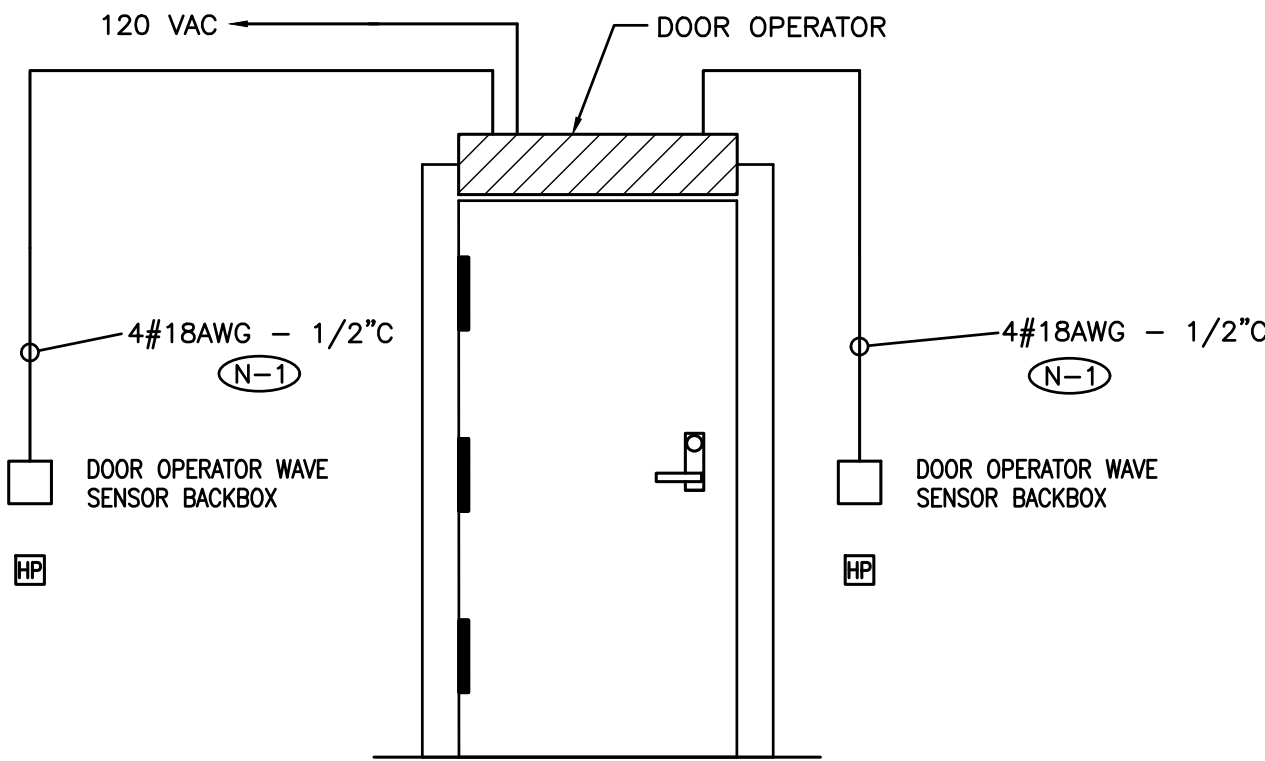
E-1.2



DRAWING NOTES

- (N-1) ROUGH-IN DETAILS ARE DIAGRAMMATIC.
(N-2) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
(N-3) COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER AND DOOR OPERATOR CONTRACTOR PRIOR TO CONSTRUCTION.
(N-4) PULLBOX INDICATED MUST BE LOCATED AT THE SECURED SIDE OF THE DOOR. MINIMUM PULLBOX SIZE 12" X 12".

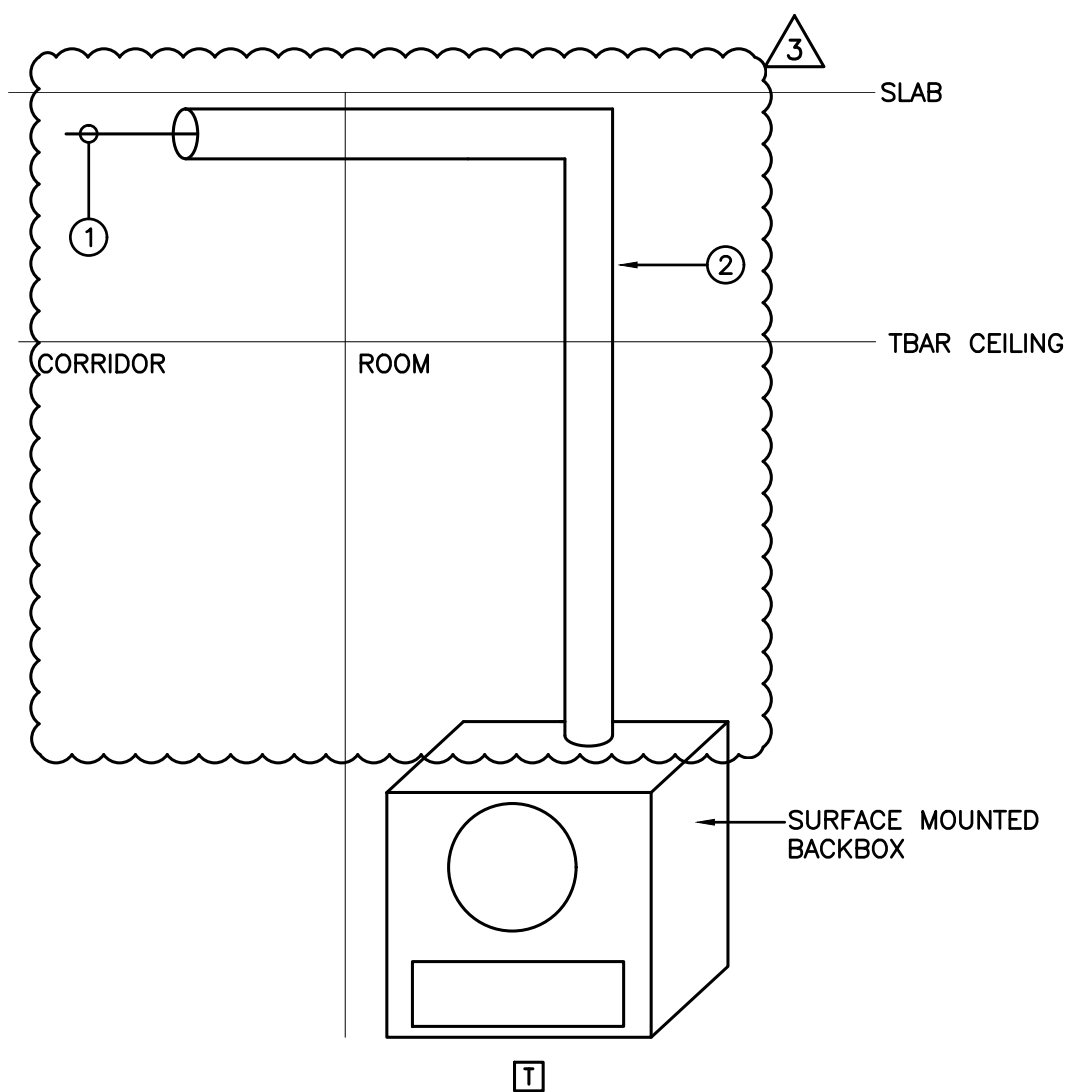
1 ELECTRONIC DOOR LOCK ROUGH-IN DETAIL
E-1.3 SCALE: NTS



DRAWING NOTES

- (N-1) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
(N-2) COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO CONSTRUCTION.

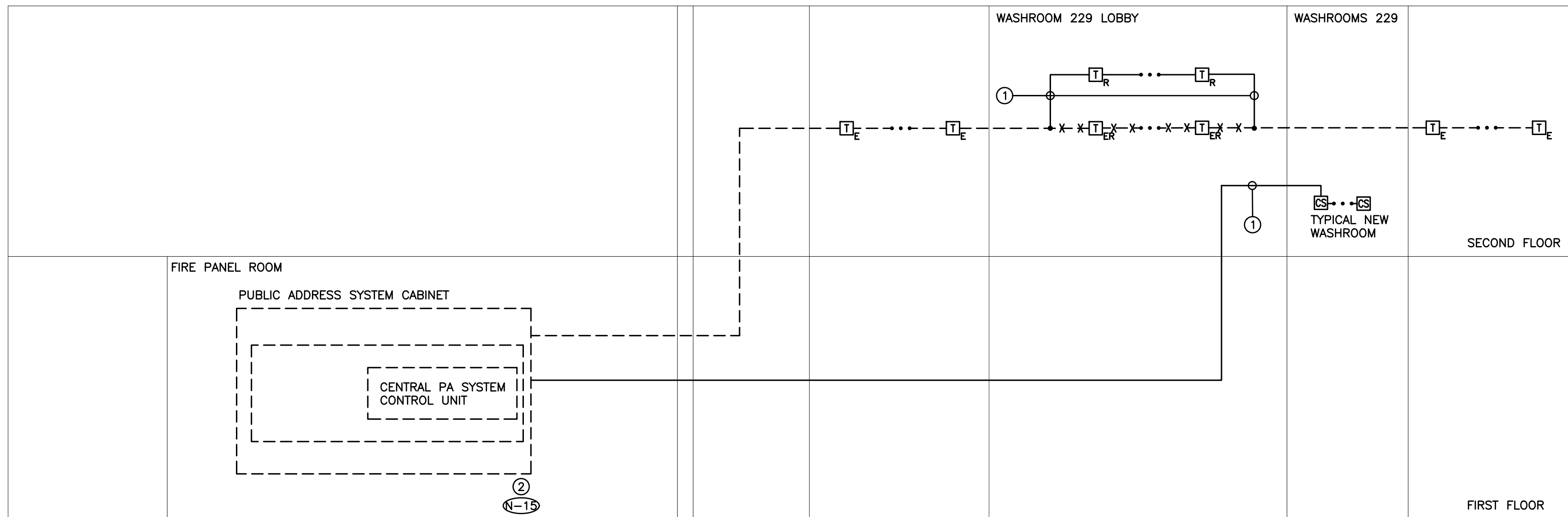
2 BARRIER FREE DOOR OPENER SYSTEM DETAIL
E-1.3 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF DEVICES.
(N-2) PROVIDE SEPARATE RACEWAYS AS SHOWN FOR ALL SPEAKER WIRING AND FOR ALL CLOCK POWER/DATA WIRING.
(N-3) CONDUITS ARE TO BE SUPPORTED BY THE CEILING STRUCTURE ABOVE.
(N-4) REFER TO RISER DIAGRAM FOR WIRING SPECIFICATIONS AND REQUIREMENTS.

- 1 SPEAKER CABLE
2 SURFACE MOUNTED RACEWAY FOR SPEAKER CABLES

3 TYPICAL PAGING SPEAKER RACEWAY INSTALLATION DETAIL
E-1.3 SCALE: NTS



- DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
----- DENOTES EXISTING TO REMAIN
***** DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

4 PUBLIC ADDRESS SYSTEM RISER DIAGRAM
E-1.3 SCALE: NTS

- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, DEVICES, ACCESSORIES, POWER CIRCUITS, CONDUITS, WIRES, DATA CIRCUITS, SPEAKER CIRCUITS, ETC., TO ENSURE A FULLY OPERATIONAL PUBLIC ADDRESS SYSTEM.
(N-2) REFER TO SYSTEMS (FLOOR) PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES, INCLUDING WIREGUARDS.
(N-3) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRE REQUIREMENTS AS DETAILED ON RISER.
(N-4) A SINGLE SPEAKER CIRCUIT (IE. RUN OF WIRING) SHALL NOT EXCEED FIVE (5) SPEAKERS OR A TOTAL POWER/LOAD OF 30W.
(N-5) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TCDSB AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
(N-6) NOT USED.
(N-7) NOT USED.
(N-8) SUPPLY CADDY HANGERS, THREADED ROD EXTENSIONS, CABLE SUPPORTS, TIE-WRAPPS AND ANY OTHER MISCELLANEOUS HARDWARE REQUIRED TO SUPPORT LOW VOLTAGE CABLING IN LAY-IN CEILING AREAS WHERE CONDUIT HAS NOT BEEN PROVIDED. ANCHORS FOR CADDY HANGERS MUST NOT BE DRILLED INTO POST TENSIONED BEAMS UNDER ANY CIRCUMSTANCES. BRIDAL RING CADDY FASTENERS AND OTHER ALTERNATIVES TO 'J-HOOKS' OR THEIR EQUIVALENT MAY NOT BE USED TO SUPPORT THE HORIZONTAL CABLING. DO NOT SUPPORT CABLES TO T-BAR CEILING HANGERS OR HAVE ANY CABLES LAYING ON CEILING TILES.
(N-9) CABLING FOR SPEAKERS (PAGING ZONES) SHALL BE BUNDLED SEPARATELY FROM OTHER SYSTEMS TO AVOID ELECTRICAL NOISE. CABLING FOR SPEAKERS MUST BE AT LEAST 1 FOOT FROM OTHER SYSTEMS' CABLING.
(N-10) NOT USED.
(N-11) NOT USED.
(N-12) ROUTE AND OFFSET SYSTEMS CABLING, ETC. PROVIDED AS PART OF THIS SCOPE OF WORK AROUND EXISTING DISTRIBUTION, JUNCTION BOXES, PULL BOXES, ETC. IN RISER ROOMS TO ACCOMMODATE INSTALLATION.
(N-13) NOT USED.
(N-14) NOT USED.
(N-15) PROVIDE QUANTITY OF AMPLIFIERS, HARDWARE, SOFTWARE, POWER SUPPLIES, ETC., AS REQUIRED TO ENSURE A FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM.

- 1 CALL-SWITCH / SPEAKER WIRE
ONE PAIR PLENUM RATED - 22AWG
2 EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN - VALCOM/SIMPLEX 5100

EXISTING PUBLIC ADDRESS SYSTEM MANUFACTURER
VALCOM, INC.
ROBBIE LEFFUE
RUL@VALCOM.COM
540-798-7033

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ



NO.	REVISIONS	DATE	BY
-----	-----------	------	----

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP

HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3K2
Tel: (416) 932-2423

PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL DETAILS



BARRY BRYAN
ASSOCIATES

Architects
Engineers
Project Managers

250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5

Tel: (905) 866-6252
Fax: (905) 866-6256
e-mail: bba@bba-archeng.com

DESIGN BY:
KZ

DOC CONTROL:
DATE:

DRAWN BY:
KZ

% COMPLETE:

CHECKED BY:
HDC

DATE:
SEPTEMBER 2023

SCALE:
AS SHOWN

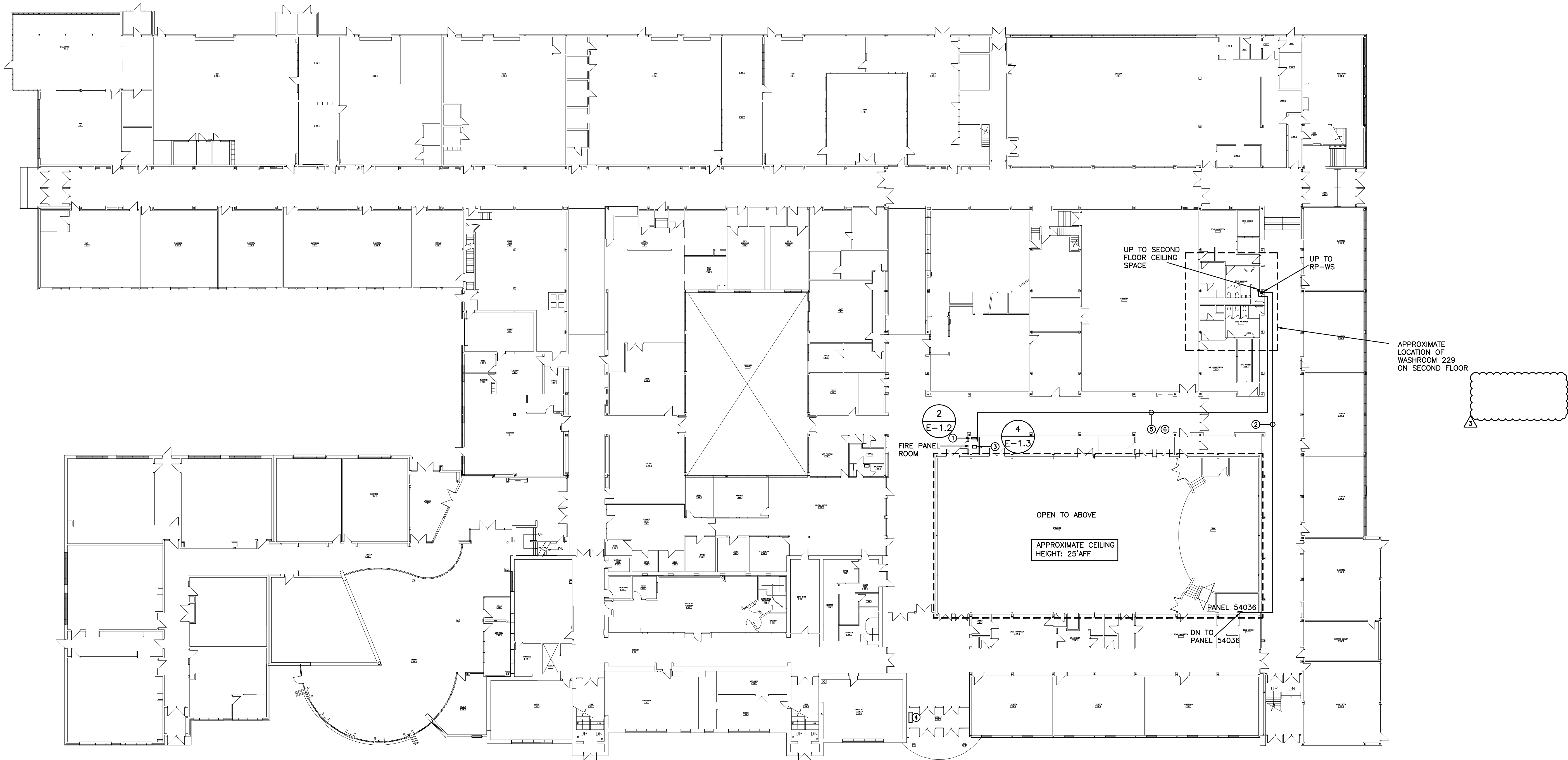
FILE:

PROJECT NO:

23105

DRAWING NO:

E-1.3



GROUND FLOOR

STAIR 103

STAIR 109

(N-1) ROUTE ALL CONDUIT SYSTEMS, ETC., AROUND EXISTING DUCT WORK, PIPING, ETC., AS REQUIRED TO ACCOMMODATE INSTALLATION.

- ① EXISTING FIRE ALARM SYSTEM CONTROL PANEL
- ② APPROXIMATE ROUTING OF BRANCH CIRCUITS, FEEDERS, ETC., PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.
- ③ EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN
- ④ EXISTING FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
- ⑤ APPROXIMATE ROUTING OF FIRE ALARM CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.
- ⑥ APPROXIMATE ROUTING OF PUBLIC ADDRESS SYSTEM CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 4 ON DRAWING NO. E-1.3 FOR ADDITIONAL REQUIREMENTS.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ



NO.	REVISIONS	DATE	BY
-----	-----------	------	----

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3A2
Tel: (416) 932-2423

PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL PLAN
GROUND FLOOR



BARRY BRYAN ASSOCIATES

Architects
Engineers
Project Managers
250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5
Tel: (905) 666-6252
Fax: (905) 666-6256
e-mail: bba@bba-archeng.com

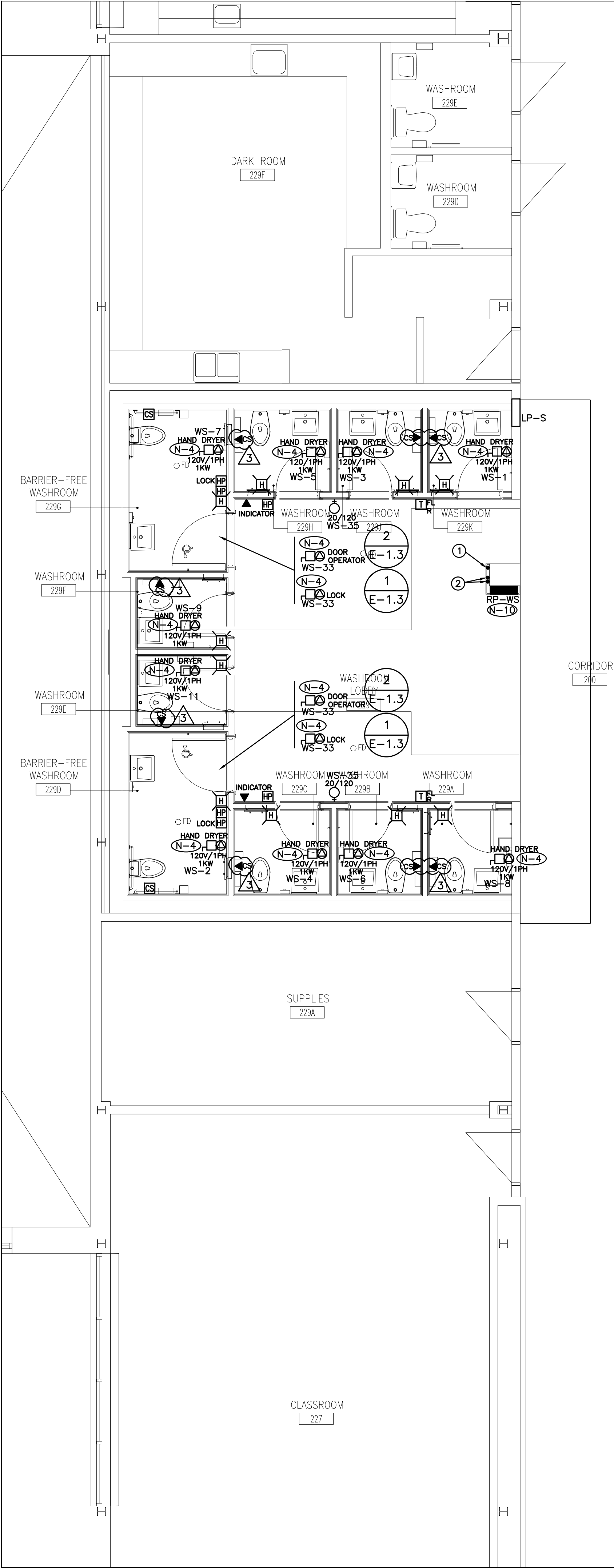
DESIGN BY: KZ	DOC CONTROL: DATE:
DRAWN BY: KZ	% COMPLETE:
CHECKED BY: HDC	INITIAL:
DATE: SEPTEMBER 2023	
SCALE: 1:250	
FILE:	

PROJECT NO:

23105

DRAWING NO:

E-2.1



- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS AND UTILITY POLES WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.
- (N-6) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
- (N-7) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- (N-8) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-9) REMOVE AND RELOCATE EXISTING FIRE ALARM SYSTEM DEVICES, LIGHT FIXTURES, EXIT SIGNS, PA SPEAKERS, ETC., TO ACCOMMODATE CONDUIT ROUTINGS AND INSTALLATION. EXISTING FIRE ALARM SYSTEM DEVICES, LIGHT FIXTURES, EXIT SIGNS, ETC., NOT SHOWN ON DRAWINGS.
- (N-10) PROVIDE THREE (3) SPARE 1 1/4" C TO CEILING SPACE C/W PULLSTRING FOR FUTURE BRANCH WIRING.
- (N-11) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL ONE (1) CSA 5-20R DUPLEX RECEPTACLES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-2.2 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION. EACH ADDITIONAL RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT COMPLETE WITH BRANCH WIRING (CONDUIT AND WIRE) AND BREAKER. BREAKER REQUIREMENTS NOT INDICATED ON PANEL SCHEDULES.

- PROVIDE RECEPTACLES, CONDUIT, WIRE (200' OF 2#10AWG + G (TOTAL OF 400' WIRE PLUS G AND 200' 3/4" CONDUIT) PER RECEPTACLE), BREAKERS, TERMINATION AT PANEL BREAKER END AND AT DEVICE END, ETC., FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND PANEL SOURCE TO BE DETERMINED ON SITE BY CLIENT DURING CONSTRUCTION. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AT THE COMPLETION OF THE PROJECT.
- (N-12) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM ALL WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-13) PROVIDE TWO (2) DUPLEX RECEPTACLES IN CEILING SPACE ON AN AD HOC BASIS FOR CONTROL CONTRACTOR'S USE. UTILIZE COTS #RP-WS-34/36. COORDINATE LOCATION OF RECEPTACLES ON SITE WITH CONTROLS CONTRACTOR. BID PRICE SHALL INCLUDE FOR 200' OF 2#10AWG + G (TOTAL OF 400' WIRE PLUS G) AND 200' 3/4" CONDUIT PER CONTROL CIRCUIT.
- ① APPROXIMATE LOCATION TO TRANSITION FIRE ALARM SYSTEM CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK AND PUBLIC ADDRESS SYSTEM CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK FROM GROUND FLOOR CEILING SPACE TO SECOND FLOOR CEILING SPACE.
- ② 2" ZONE CONDUIT PROVIDED BY OTHERS AS PART OF A SEPARATE SCOPE OF WORK AND PRIOR TO THIS SCOPE OF WORK TO TRANSITION SERVICE FROM SECOND FLOOR CEILING SPACE TO GROUND FLOOR CEILING SPACE.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ



NO.	REVISIONS	DATE	BY
-----	-----------	------	----

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3A2
Tel: (416) 932-2423

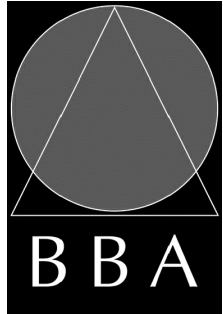
PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL PLAN
SECOND FLOOR**

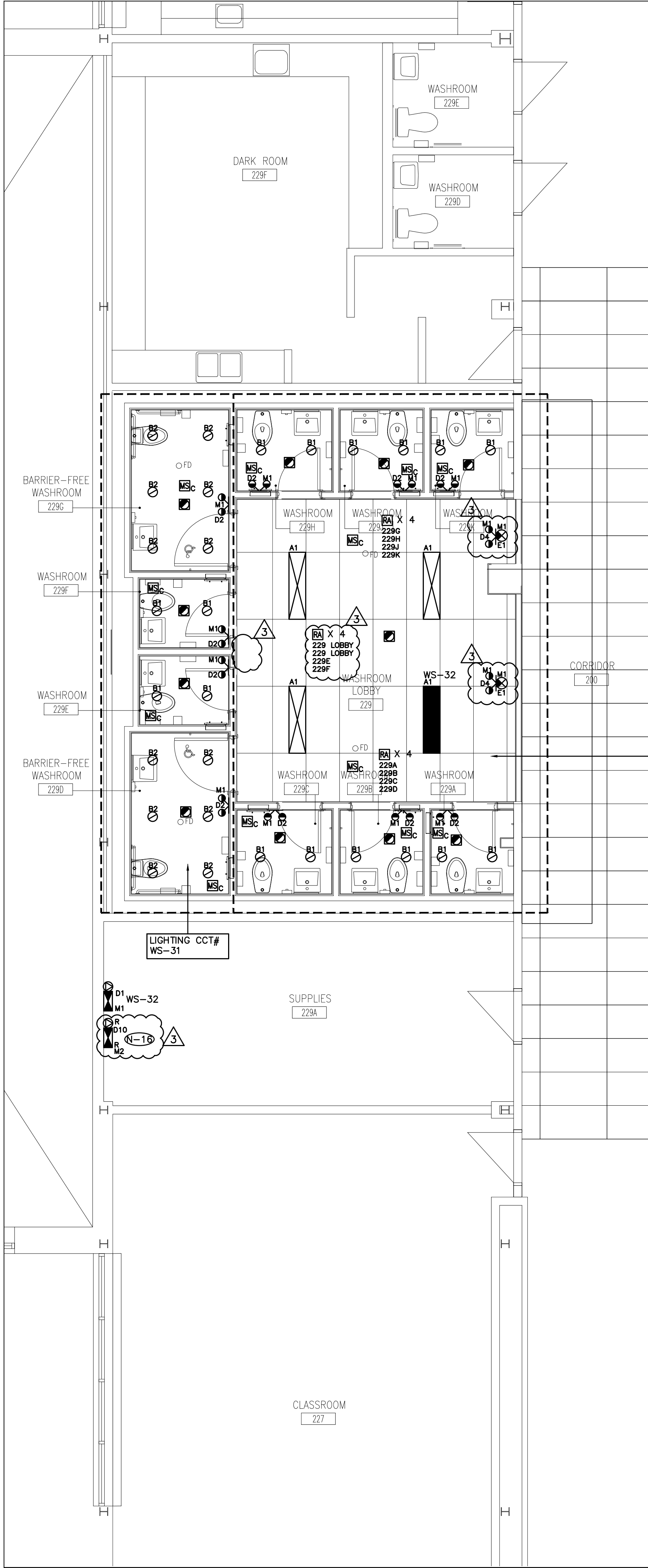


BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers
250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5
Tel: (905) 666-6252
Fax: (905) 666-6256
e-mail: bba@bba-archeng.com

DESIGN BY: KZ	DOC CONTROL: DATE:
DRAWN BY: KZ	% COMPLETE:
CHECKED BY: HDC	INITIAL:
DATE: SEPTEMBER 2023	
SCALE: 1:50	
FILE:	

PROJECT NO:
23105

DRAWING NO:
E-2.2



- (N-1) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, PHOTOCELL SENSORS, LIGHT SWITCHES, ETC.
- (N-2) PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, ETC., TO SUIT NEW REFLECTED CEILING PLAN.
- (N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK.
- (N-4) CHAIN HANG ALL NEW FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS FROM SLAB (RETROFIT FIXTURES ACCORDINGLY).
- (N-5) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-6) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-7) ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
- (N-8) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- (N-9) SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- (N-10) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATTSTOPPER SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-11) CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.
- (N-12) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-13) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC. PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- (N-14) REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.
- (N-15) UTILIZE CCT #WS-32 (DC SOURCE M1) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.
- (N-16) REWIRE AND EXTEND EXISTING AC AND DC WIRING TO ALL EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS NOT SHOWN ON DRAWING.

FIXTURE SCHEDULE

- TYPE A1 - 2500 LUMEN 1' X 4' RECESSED MOUNTED LED FIXTURE, SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85% CRI). COOPER LIGHTING CRUZE SERIES 14CZ2-25-UNV-L840-CD1-U
- TYPE B1 - 1000 LUMEN 4" ROUND RECESSED MOUNTED LED DOWNLIGHT FIXTURE C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, WIDE DISTRIBUTION AND LED LAMP (4000K, 90%CRI). COOPER LIGHTING PORTFOLIO SERIES LD4C10D010 EU4C109040 4LBW1H HB26.
- TYPE B2 - 800 LUMEN 4" ROUND RECESSED MOUNTED LED DOWNLIGHT FIXTURE C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, MEDIUM DISTRIBUTION AND LED LAMP (4000K, 90%CRI). COOPER LIGHTING PORTFOLIO SERIES LD4C08D010 EU4C089040 4LBM1H HB26.
- TYPE LE1 - 1' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE C/W 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMPS.
- TYPE LE2 - 1' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W 120V BALLAST, CURVED ACRYLIC LENS AND 2 X T8 LAMPS.
- TYPE LE3 - 4' SURFACE MOUNTED LINEAR FLUORESCENT FIXTURE C/W 120V BALLAST 1 X T8 LAMP.
- TYPE D1 - EMERGENCY LIGHTING SYSTEM C/W 10 YEAR 24VOLT/720W/0.5 HOUR/BATTERY UNIT/120V VOLT INPUT/STANPRO SLD SERIES SLD-24-720-00-X-WH. WHITE IN COLOUR.
- TYPE D2 - 2 X 5W LA LED 24V STANPRO SMC2W ANTI VANDAL REMOTE HEADS, WHITE IN COLOUR.
- TYPE D3 - 1 X 5W LA LED 24V STANPRO SMC ANTI VANDAL REMOTE HEAD, WHITE IN COLOUR.
- TYPE D4 - 2 X 7W LA LED 24V STANPRO SMC2W ANTI VANDAL REMOTE HEADS, WHITE IN COLOUR.
- TYPE D8 - 2 X REMOTE HEADS
- TYPE D10 - EMERGENCY LIGHTING SYSTEM BATTERY UNIT
- TYPE E1 - PICTOGRAM GREEN ANTI VANDAL LED EXIT SIGN C/W STANPRO FIELD INSTALLABLE CANOPY KIT. STANPRO RMV SERIES RMV-X-X-WH-UDC.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ



NO.	REVISIONS	DATE	BY
-----	-----------	------	----

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3K2
Tel: (416) 932-2423

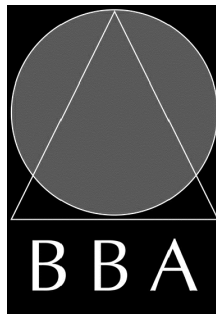
PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

**REFLECTED
CEILING PLAN
SECOND FLOOR**



**BARRY BRYAN
ASSOCIATES**

Architects
Engineers
Project Managers

250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5

Tel: (905) 666-6252
Fax: (905) 666-6256
e-mail: bba@bba-archeng.com

DESIGN BY:
KZ

DOC CONTROL:
DATE:

DRAWN BY:
KZ

% COMPLETE:

CHECKED BY:
HDC

INITIAL:

DATE:
SEPTEMBER 2023

SCALE:
1:50

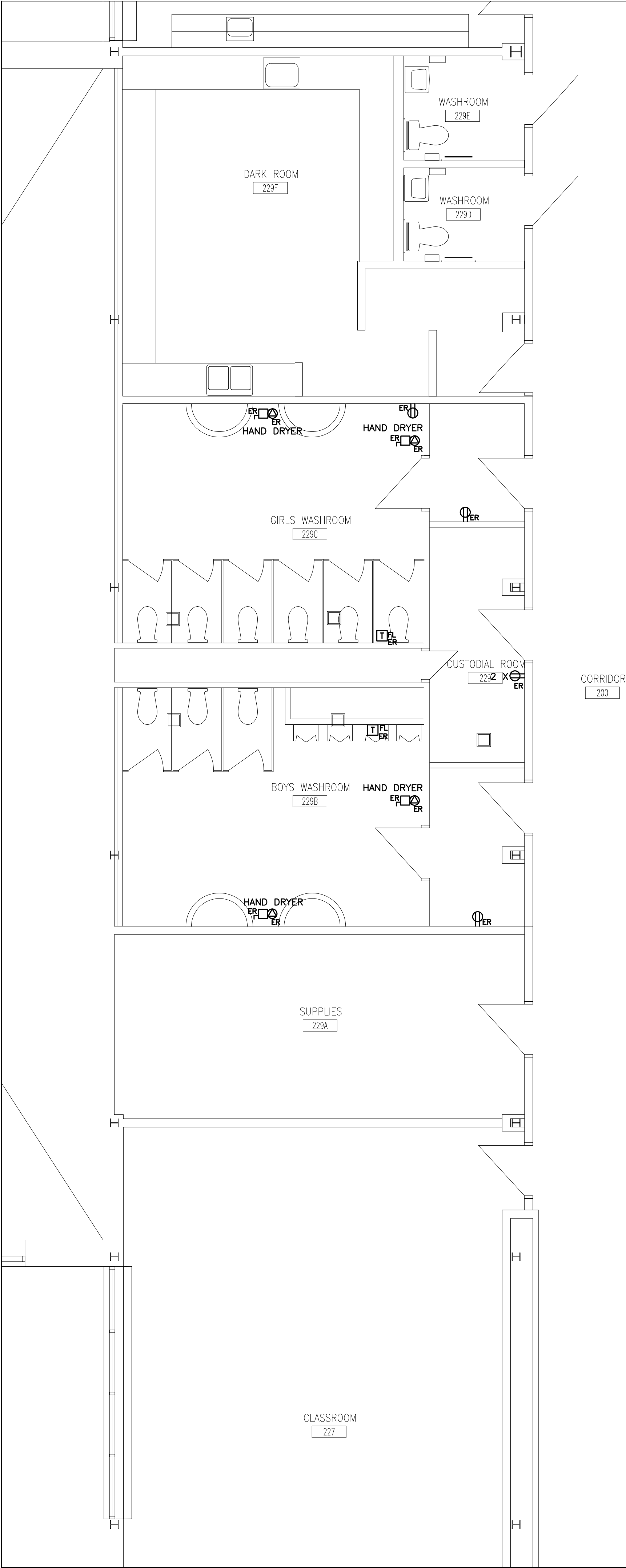
FILE:

PROJECT NO:

23105

DRAWING NO:

E-3.2



- (N-1) ALL EXISTING BRANCH WIRING AND RACEWAYS, INCLUDING THOSE COILED IN CEILING SPACE SHALL BE REMOVED BACK TO SOURCE PANEL. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS. DO NOT REUSE EXISTING WIRING OR CONDUIT SYSTEMS.
- (N-2) REMOVE ALL ABANDONED ZONE CONDUITS INCLUDING THOSE IN CEILING SPACE. EXISTING ZONE CONDUITS NOT SHOWN ON DRAWING.
- (N-3) DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-4) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF TWO (2) ADDITIONAL RECEPTACLES, COMMUNICATIONS ROUGH-INS, ETC. OVER AND ABOVE THOSE SHOWN ON THIS DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-5) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ



NO.	REVISIONS	DATE	BY
-----	-----------	------	----

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3A2
Tel: (416) 932-2423

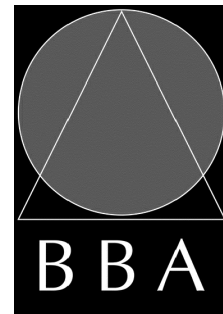
PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL
DEMOLITION PLAN
SECOND FLOOR**



**BARRY BRYAN
ASSOCIATES**
Architects
Engineers
Project Managers
250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5
Tel: (905) 666-6252
Fax: (905) 666-6256
e-mail: bba@bba-archeng.com

DESIGN BY: KZ	DOC CONTROL: DATE:
DRAWN BY: KZ	% COMPLETE:
CHECKED BY: HDC	INITIAL:
DATE: SEPTEMBER 2023	
SCALE: 1:50	
FILE:	

PROJECT NO:
23105

DRAWING NO:
E-5.2