



2025-138-P01970-P01972  
RFT Orchard Park Secondary School and Waterdown  
District High School Dust Collector Replacements

# Addendum 1

Issued May 22, 2025

The following information changes the competitive process documents issued on May 7, 2025.

## GENERAL INFORMATION

Item 1: See attached Addendum #1, by Barry Bryan Associates, issued May 22, 2025, (14 Pages).

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**End of Addendum 1**



**BARRY BRYAN  
ASSOCIATES**

Architects  
Engineers  
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# Addendum No. 1

Page 1 of 2

**Project No.:** 24141.1 and 24141.2  
**Date:** May 22, 2025  
**Tender No.:** 2025-138-P01970-P01972 - RFT  
**Project:** **ORCHARD PARK SECONDARY SCHOOL AND  
WATERDOWN DISTRICT HIGH SCHOOL DUST COLLECTOR  
REPLACEMENTS  
Hamilton-Wentworth District School Board**

The following information supplements and/or supersedes the bid documents issued on May 7, 2025

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

## GENERAL

- 1.1 Refer to HCC Engineering Limited's Tender Addendum #E-01 dated May 22, 2025 for the Orchard Park Secondary School.
- 1.2 Refer to HCC Engineering Limited's Tender Addendum #E-01 dated May 22, 2025 for the Waterdown District High School.

## QUESTIONS AND ANSWERS

- 1.3 **Question:** Can you please confirm if \$15,000 CAD in cash allowance covers for Geotechnical inspection.

**Answer:** Yes.

- 1.4 **Question:** Can you please provide contact information of base building contractors.

**Answer:** Orchard Park base BAS vendor:  
Company: Siemens Canada Limited  
Contact name: Jake Rendulic  
Email: [jake.rendulic@siemens.com](mailto:jake.rendulic@siemens.com)  
Phone: 905-541-7433

Waterdown base BAS vendor:  
Company: Convergent  
Contact name: Patrick Cousineau  
Email: [patrick.cousineau@convergent.com](mailto:patrick.cousineau@convergent.com)  
Phone: 519-754-7408

- 1.5 **Question:** In the structural drawings, Detail 1 on Sheet S502 specifies a post size of 5x5x 3/4 inch. We would like to confirm if the wall thickness is 9 Inch.

**Answer:** The column is 5"x5" x 3/4" thick.

1.6 Question: Please confirm if the supply dust controller by school and installed by GC's Mechanical trade.

Answer: *Refer to note #4 in dust collector schedule: "Dust collector has been pre-purchased by client (HWDSB). Contractor is responsible for coordinating and accepting delivery, installation, and assuming all manufacturer's warranties."*

1.7 Question: May we have the base building BAS contractor detail.

Answer: *Orchard Park base BAS vendor:  
Company: Siemens Canada Limited  
Contact name: Jake Rendulic  
Email: jake.rendulic@siemens.com  
Phone: 905-541-7433*

*Waterdown base BAS vendor:  
Company: Convergent  
Contact name: Patrick Cousineau  
Email: patrick.cousineau@convergent.com  
Phone: 519-754-7408*

## End of Addendum No. 1

### Barry Bryan Associates

*Architects, Engineers, Project Managers*



Crystal Gardner, OAA

CG/sm

Attachments:	HCC Tender Addendum #E-01 Orchard Park SS	(6 Pages)
	HCC Tender Addendum #E-01 Waterdown DHS	(6 Pages)



# ***HCC ENGINEERING LIMITED***

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## **Tender Addendum #E-01**

Project: **Dust Collector Replacement  
Orchard Park Secondary School  
200 Dewitt Road  
Hamilton, Ontario**

HCC Engineering Project No.: **24211  
BCIN# 28954**

Date: **May 22, 2025**

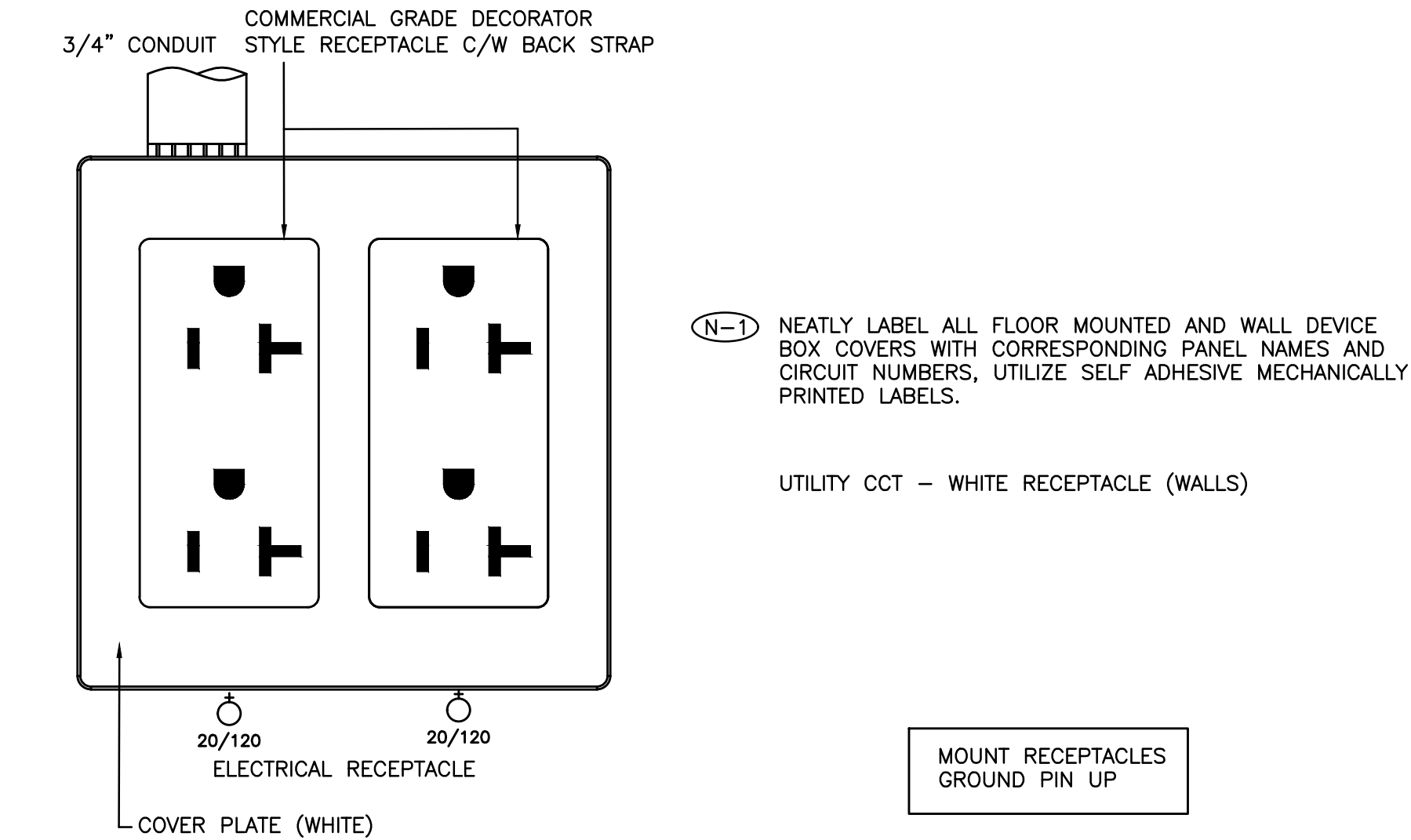
### **1. General**

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

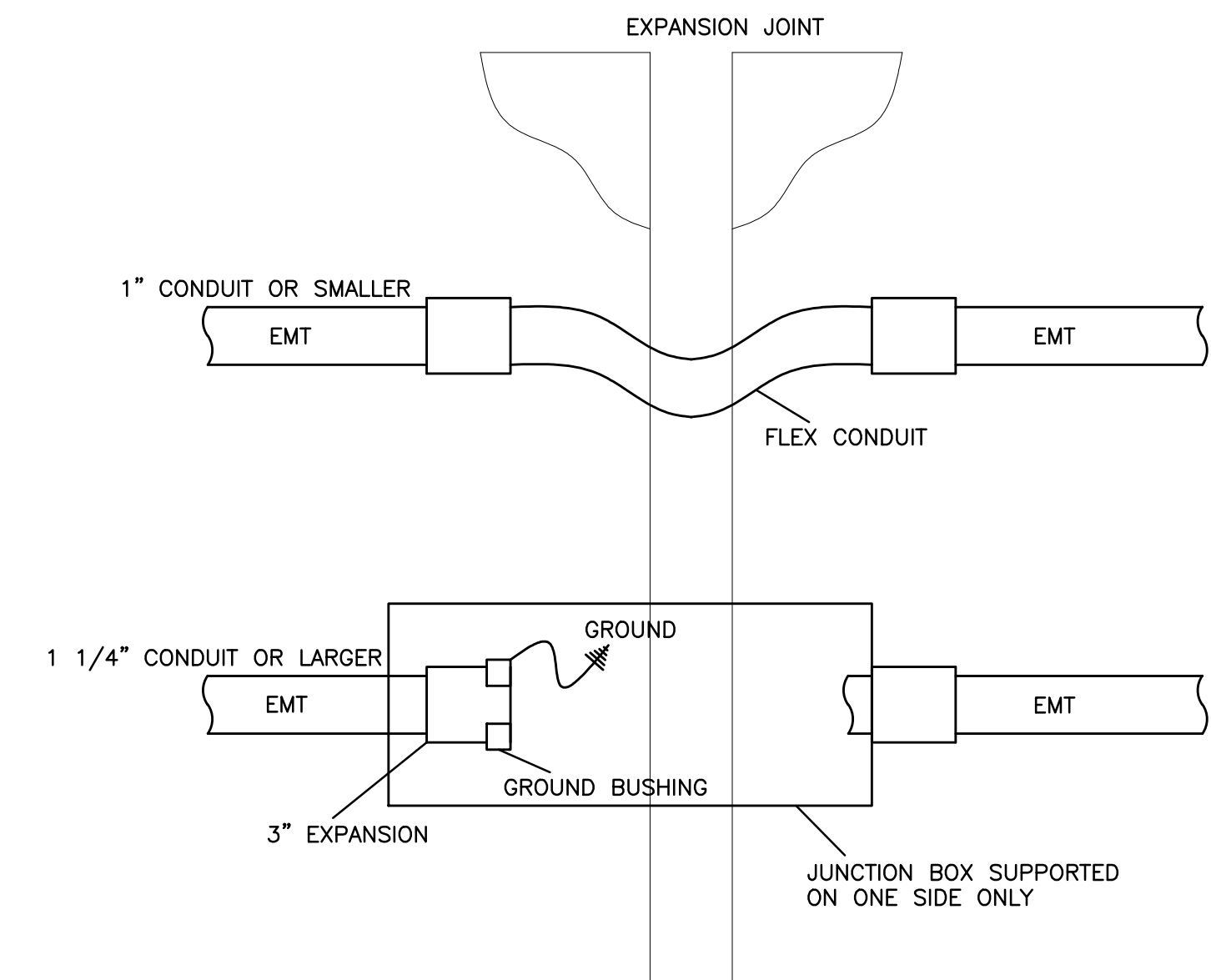
### **2. Drawings**

1. Drawing No. E-1.1 (Reissued with Addendum)
2. Drawing No. E-1.2 (Reissued with Addendum)
3. Drawing No. E-7.1 (Reissued with Addendum)
4. Drawing No. E-9.1 (Reissued with Addendum)
5. Drawing No. E-9.2 (Reissued with Addendum)

End of Tender Addendum #E-01



1 TYPICAL WALL MOUNTED DEVICE DETAIL  
E-1.1 SCALE: NTS



2 EXPANSION JOINT CROSSING DETAIL  
E-1.1 SCALE: NTS

DWG FIRE ZONE NO.	FIRE ZONE ID LABEL (N-1) TYP	INITIATING DEVICE	ALARM SIGNAL	TROUBLE SIGNAL
01	DUST COLLECTOR ALARM	[M]	*	
02	DUST COLLECTOR TROUBLE	[M]		*

(N-1) ZONE DESCRIPTION TO BE DETERMINED ON SITE.

(N-2) 'SC' DENOTES SUPERVISORY CONTACT.

(N-3) SEQUENCE OF OPERATIONS AND ALARM/ALERT SIGNALING REQUIREMENTS TO BE COORDINATED WITH AUTHORITY HAVING JURISDICTION, CONSULTANT, MECHANICAL CONTRACTOR, FIRE ALARM MANUFACTURER AND LANDLORD THROUGH SHOP DRAWING APPROVAL PROCESS.

3 FIRE ALARM SYSTEM ZONE SCHEDULE  
E-1.1 SCALE: NTS

## LEGEND

[Symbol]	AREA/SITE LUMINAIRE. CONNECT TO UTILITY LIGHTING CIRCUIT.
[Symbol]	15AMP/120VOLT, U-GROUND DUPLEX RECEPTACLE. GFI DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.
[Symbol]	RECEPTACLE, REQUIREMENT AS NOTED.
[Symbol]	20A/120V DUPLEX RECEPTACLE, CSA 5-20R (T-SLOT). HUBBELL DR20 SERIES.
E	INDICATES EXISTING DEVICE TO REMAIN.
ER	INDICATES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
R	DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.
RE	DENOTES EXISTING DEVICE TO REMAIN. RECIRCUIT AS SHOWN. REMOVE EXISTING CONDUIT AND WIRE BACK TO EXISTING SOURCE. PROVIDE CONDUIT AND WIRE BACK TO NEW SOURCE.
WP	DENOTES NEMA TYPE 4X ENCLOSURE SUITABLE FOR HOSE DIRECTED WATER
[Symbol]	DIRECT CONNECTION.
[Symbol]	NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION.
[Symbol]	VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A'
[Symbol]	CONTROL ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
[Symbol]	ISOLATION MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
[Symbol]	INITIATING DEVICE, INTERFACE ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
[Symbol]	RELAY / COIL
[Symbol]	PUSH BUTTON FOR EMERGENCY POWER OFF SHUTDOWN.

- SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
- SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO AC DISTRIBUTION EQUIPMENT, RECEPTACLE PANELS, FIRE ALARM SYSTEMS, LIGHTING FIXTURES, LAMACOIDS AND GROUNDING SYSTEM MATERIALS.
- ELECTRICAL CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH ELECTRICAL SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
- CIRCUITING MUST BE COMPLETED AS SHOWN ON DRAWINGS. DO NOT CHANGE CIRCUIT NUMBERS.
- INSTALLATION AND MANUFACTURING OF ALL DEVICES AND SERVICES INCLUDING DISTRIBUTION, LIGHT FIXTURES, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC., MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS, CONSTRUCTION DETAILS, LOCATION OF LIGHT FIXTURES, FINISHES AND COLOURS.
- AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE FIRE ALARM MANUFACTURER, FIRE INSPECTOR AND BUILDING INSPECTOR TO THOROUGHLY REVIEW THE PROPOSED INSTALLATION LOCATIONS FOR EACH AND EVERY CONTROL PANEL, REMOTE ANNUNCIATOR PANEL, ANCILLARY DEVICE, FIELD DEVICE, ETC., TO ENSURE THAT THE PROPOSED INSTALLATION IS FULLY COMPLIANT WITH CAN/ULC S524:2019 AND ONTARIO BUILDING CODE. COMPLIANCE SHALL INCLUDE INTERFERENCE AND PROXIMITY TO EXISTING DEVICES AND OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SUPPLY AIR DUCTS, EXPOSED DUCT WORK, BEAMS, RACEWAYS, ETC.), SPACING BETWEEN FIELD DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK IN PROPOSED INSTALLATION LOCATIONS, ETC..
- AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
- FIRE ALARM SYSTEM TESTING AND VERIFICATIONS MUST TAKE PLACE BETWEEN 11PM AND 5AM DURING THE WEEK.
- AS BUILT DRAWING REQUIREMENTS:
  - AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE ELECTRICAL CONTRACTOR.
  - ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
  - ROUTING OF ALL FEEDERS, BRANCH WIRING (LIGHTING, EMERGENCY LIGHTING, POWER, ETC), LOW VOLTAGE WIRING, MISCELLANEOUS SYSTEMS WIRING, MISCELLANEOUS CONDUIT SYSTEMS, ETC, TO BE SHOWN ON AS BUILT DRAWINGS, REQUIREMENTS.
- ALL SCOPES OF WORK REQUIRED TO BE COMPLETED IN OCCUPIED AREAS OF THE FACILITY INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 11PM AND 5AM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES AND RAISED FLOOR TILES TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- REMOVAL AND REINSTALLATION OF CEILING TILES IN OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ALL PANEL SCHEDULE DIRECTORIES MUST BE UPDATED AND TYPEWRITTEN PANEL SCHEDULE DIRECTORIES MUST BE PROVIDED. SELF-ADHESIVE LABELING TAPE MUST BE USED FOR ALL LABELING AT ALL OUTLETS. LAMACOIDS MUST BE USED FOR LABELING OF ALL ELECTRICAL ENCLOSURES.
- THE CONTRACTOR MUST ENSURE THAT FIRESTOPPING AND SEALANTS ARE INSTALLED AT NEW FLOOR OPENINGS IN ACCORDANCE WITH THE CURRENT FIRE CODE REQUIREMENTS AND TO PREVENT WATER LEAKAGE ARE TO BE WATERPROOFED PRIOR TO INSTALLATION OF THE TENANT FLOOR COVERINGS. THE LANDLORD WILL APPROVE THE PROPOSED WATERPROOFING METHOD PRIOR TO THE TENANT PROCEEDING WITH CONSTRUCTION.
- PROVIDE A REPORT FROM THE MANUFACTURER FOR ALL FIRESTOP ASSEMBLIES PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT MUST DETAIL COMPLIANCE WITH ONTARIO BUILDING CODE.

### DRAWING LIST

E-1.1 - ELECTRICAL LEGEND AND DETAILS  
E-1.2 - ELECTRICAL DETAILS  
E-2.1 - ELECTRICAL PLAN - PARTIAL GROUND FLOOR  
E-4.1 - ELECTRICAL GROUNDING SYSTEM DETAILS  
E-7.1 - ELECTRICAL SINGLE LINE DIAGRAM  
E-9.1 - ELECTRICAL PLAN - WOOD SHOP  
E-9.2 - ELECTRICAL DEMOLITION PLAN - WOOD SHOP

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.

# HWDSB

NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	DEC. 04 2024	KZ
2	ISSUED FOR PERMIT	JAN. 22 2025	KZ
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4	ISSUED FOR ADDENDUM E-01	MAY. 22 2025	KZ

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NO.	REVISIONS	DATE	BY



PROJECT:

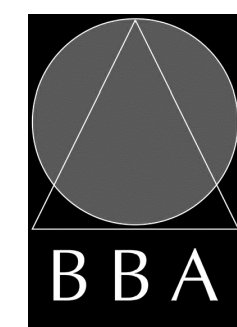
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

200 DEWITT ROAD  
HAMILTON, ONTARIO L8N 3L1  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL LEGEND  
AND DETAILS**

HCC PROJECT #24211



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DESIGN BY:

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% COMPLETE:

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INITIAL:

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SCALE:

AS SHOWN

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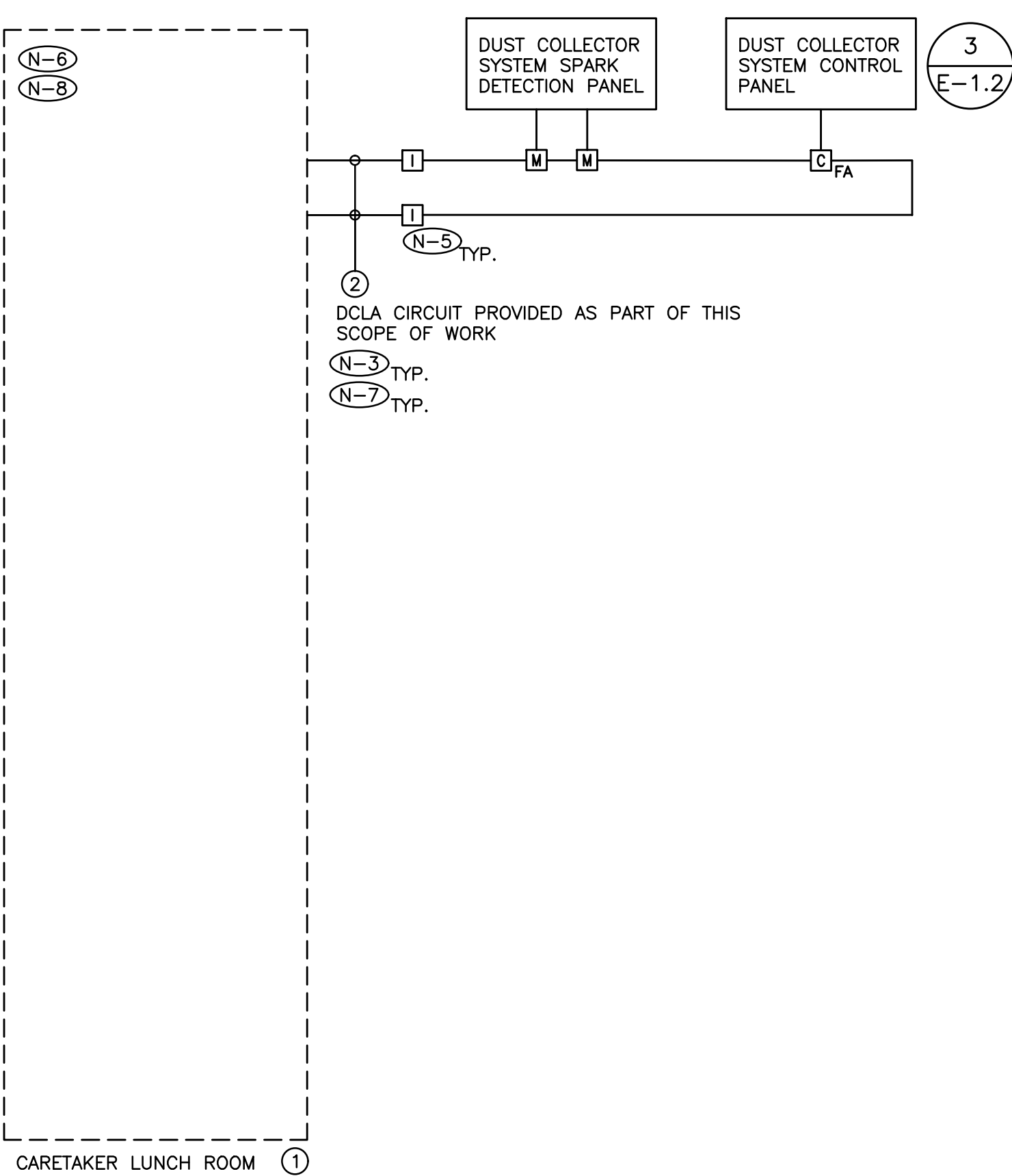
PROJECT NO:

**24141.1**

DRAWING NO:

**E-1.1**





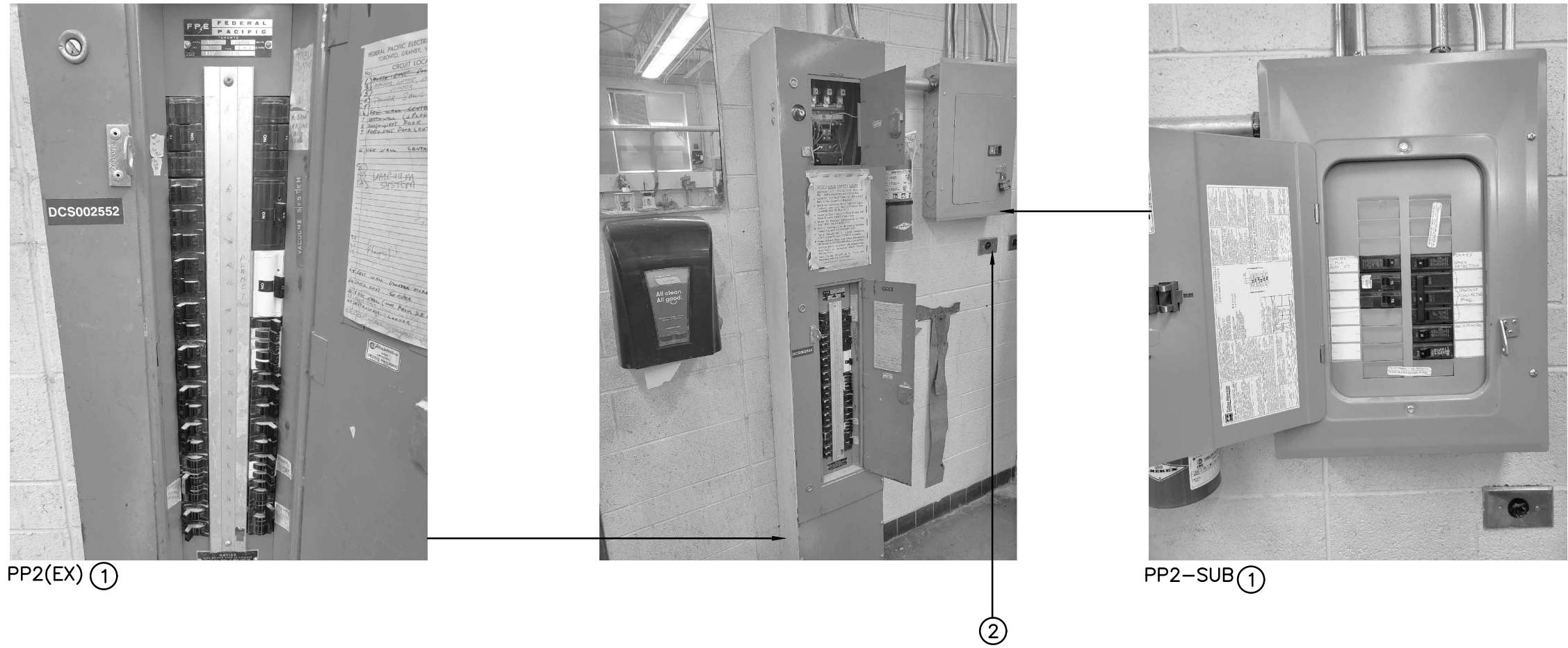
1 PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM  
E-1.2 SCALE: NTS

- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF STROBE LIGHT CIRCUITS, BELL CIRCUITS, 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, 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) PROVIDE LINE ISOLATOR MODULES TO ISOLATE DCIA SEGMENTS ON A PER FIRE ALARM ZONE BASIS, ON A PER FLOOR BASIS AND AS REQUIRED BY THE MANUFACTURER AND BY ONTARIO BUILDING CODE. NOTE: PROVIDE ADDITIONAL LINE ISOLATOR MODULES AS REQUIRED OVER AND ABOVE THOSE SHOWN ON RISER DIAGRAM TO SATISFY ISOLATION REQUIREMENTS.
- (N-6) MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATION.
- (N-7) EACH DCIA WIRING LOOP SHALL BE LIMITED TO SERVING DEVICES ON ONE FLOOR.
- (N-8) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL 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) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.

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

BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER  
TYCO INTEGRATED FIRE & SECURITY  
MATT FLINTOFF  
CELL: 289-260-9830  
MATTHEW.FLINTOFF@JCI.COM

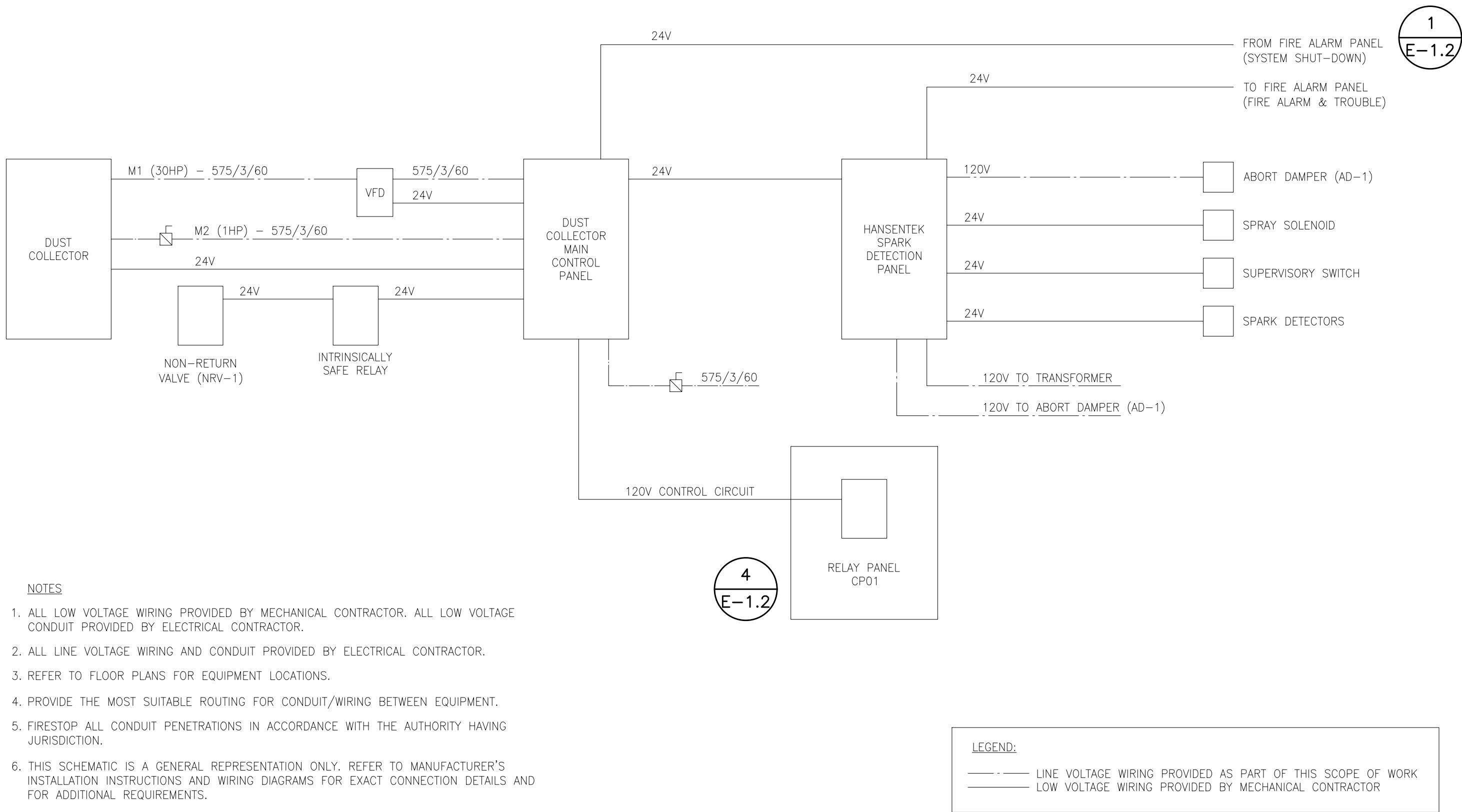
- DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR.
- - - - - DENOTES EXISTING TO REMAIN.
- \* -X-X-X-X-X- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR.



- (N-1) PHOTOS ILLUSTRATE EXISTING WOODWORK SHOP ELECTRICAL DISTRIBUTION AND ARE INCLUDED FOR REFERENCES ONLY.

- 1 EXISTING RECEPTACLE PANEL TO BE REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK.
- 2 TYPICAL EXISTING WALL MOUNTED DEVICES TO BE RELOCATED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE PANEL REPLACEMENT PROVIDED AS PART OF THIS SCOPE OF WORK.

2 PHOTOS – PANEL BOARD PP2(EX) AND PP2-SUB  
E-1.2 SCALE: NTS



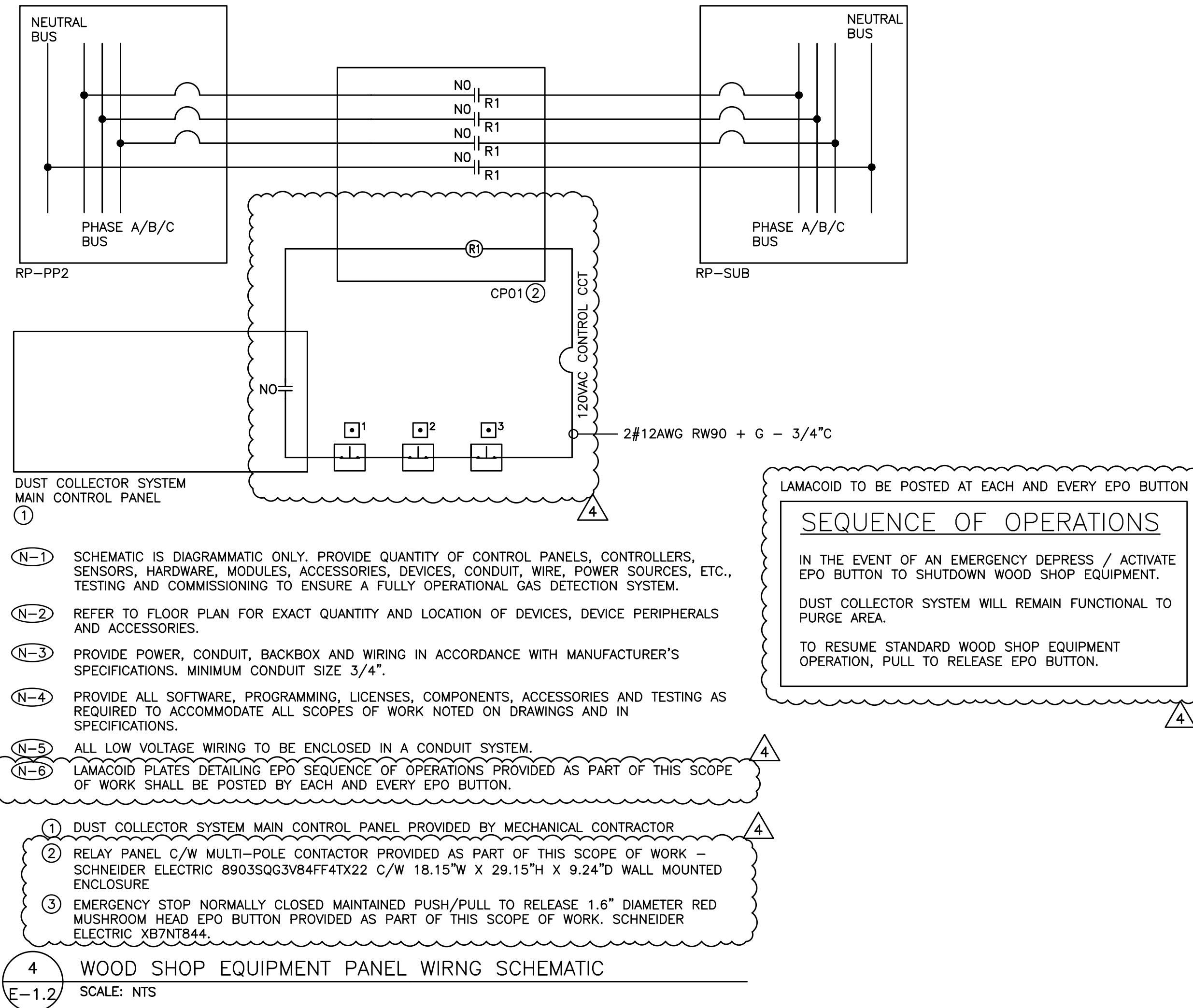
- NOTES
1. ALL LOW VOLTAGE WIRING PROVIDED BY MECHANICAL CONTRACTOR; ALL LOW VOLTAGE CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL LINE VOLTAGE WIRING AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR.
3. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
4. PROVIDE THE MOST SUITABLE ROUTING FOR CONDUIT/WIRING BETWEEN EQUIPMENT.
5. FIRESTOP ALL CONDUIT PENETRATIONS IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
6. THIS SCHEMATIC IS A GENERAL REPRESENTATION ONLY; REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR EXACT CONNECTION DETAILS AND FOR ADDITIONAL REQUIREMENTS.

LEGEND:

— LINE VOLTAGE WIRING PROVIDED AS PART OF THIS SCOPE OF WORK

— LOW VOLTAGE WIRING PROVIDED BY MECHANICAL CONTRACTOR

3 DUST COLLECTOR SYSTEM SCHEMATIC  
E-1.2 SCALE: NTS



- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF CONTROL PANELS, CONTROLLERS, SENSORS, HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, POWER SOURCES, ETC., TESTING AND COMMISSIONING TO ENSURE A FULLY OPERATIONAL GAS DETECTION SYSTEM.
- (N-2) REFER TO FLOOR PLAN FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES.
- (N-3) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) PROVIDE ALL SOFTWARE, PROGRAMMING, LICENSES, COMPONENTS, ACCESSORIES AND TESTING AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK NOTED ON DRAWINGS AND IN SPECIFICATIONS.
- (N-5) ALL LOW VOLTAGE WIRING TO BE ENCLOSED IN A CONDUIT SYSTEM.
- (N-6) LAMACOID PLATES DETAILING EPO SEQUENCE OF OPERATIONS PROVIDED AS PART OF THIS SCOPE OF WORK SHALL BE POSTED BY EACH AND EVERY EPO BUTTON.

- 1 DUST COLLECTOR SYSTEM MAIN CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR
- 2 RELAY PANEL C/W MULTI-POLE CONTACTOR PROVIDED AS PART OF THIS SCOPE OF WORK – SCHNEIDER ELECTRIC 8903SQG3VB4FF4TX22 C/W 18.15"W X 29.15"H X 9.24"D WALL MOUNTED ENCLOSURE
- 3 EMERGENCY STOP NORMALLY CLOSED MAINTAINED PUSH/PULL TO RELEASE 1.6" DIAMETER RED MUSHROOM HEAD EPO BUTTON PROVIDED AS PART OF THIS SCOPE OF WORK. SCHNEIDER ELECTRIC XB7NT844.

4 WOOD SHOP EQUIPMENT PANEL WIRNG SCHEMATIC  
E-1.2 SCALE: NTS

DO NOT SCALE THE DRAWINGS.  
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**HWDSB**

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4	ISSUED FOR ADDENDUM E-01	MAY. 22 2025	KZ

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Tel: (416) 932-2425

NO.	REVISIONS	DATE	BY
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PROJECT:

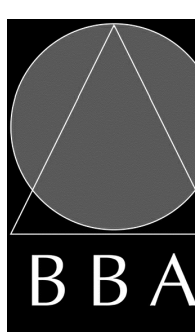
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

200 DEWITT ROAD  
HAMILTON, ONTARIO L8N 3L1  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL DETAILS**

HCC PROJECT #24211



**BARRY BRYAN  
ASSOCIATES**

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DESIGN BY:	DOC CONTROL:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:

DATE:

SCALE: AS SHOWN

FILE:

PROJECT NO: **24141.1**

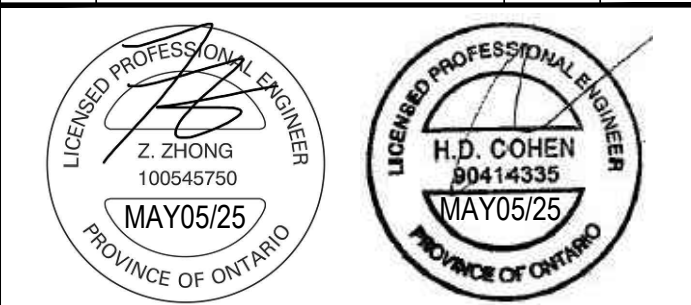
DRAWING NO: **E-1.2**



NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	DEC. 04 2024	KZ
2	ISSUED FOR PERMIT	JUN. 22 2025	KZ
3	ISSUED FOR TENDER	MAY. 5 2025	KZ
⚠	ISSUED FOR ADDENDUM E-01	MAY. 22 2025	KZ

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Tel: (416) 932-2423

NO.	REVISIONS	DATE	BY



PROJECT:

**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

200 DEWITT ROAD  
HAMILTON, ONTARIO L8N 3L1  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL  
SINGLE LINE DIAGRAM**

HCC PROJECT #24211



**BARRY BRYAN  
ASSOCIATES**

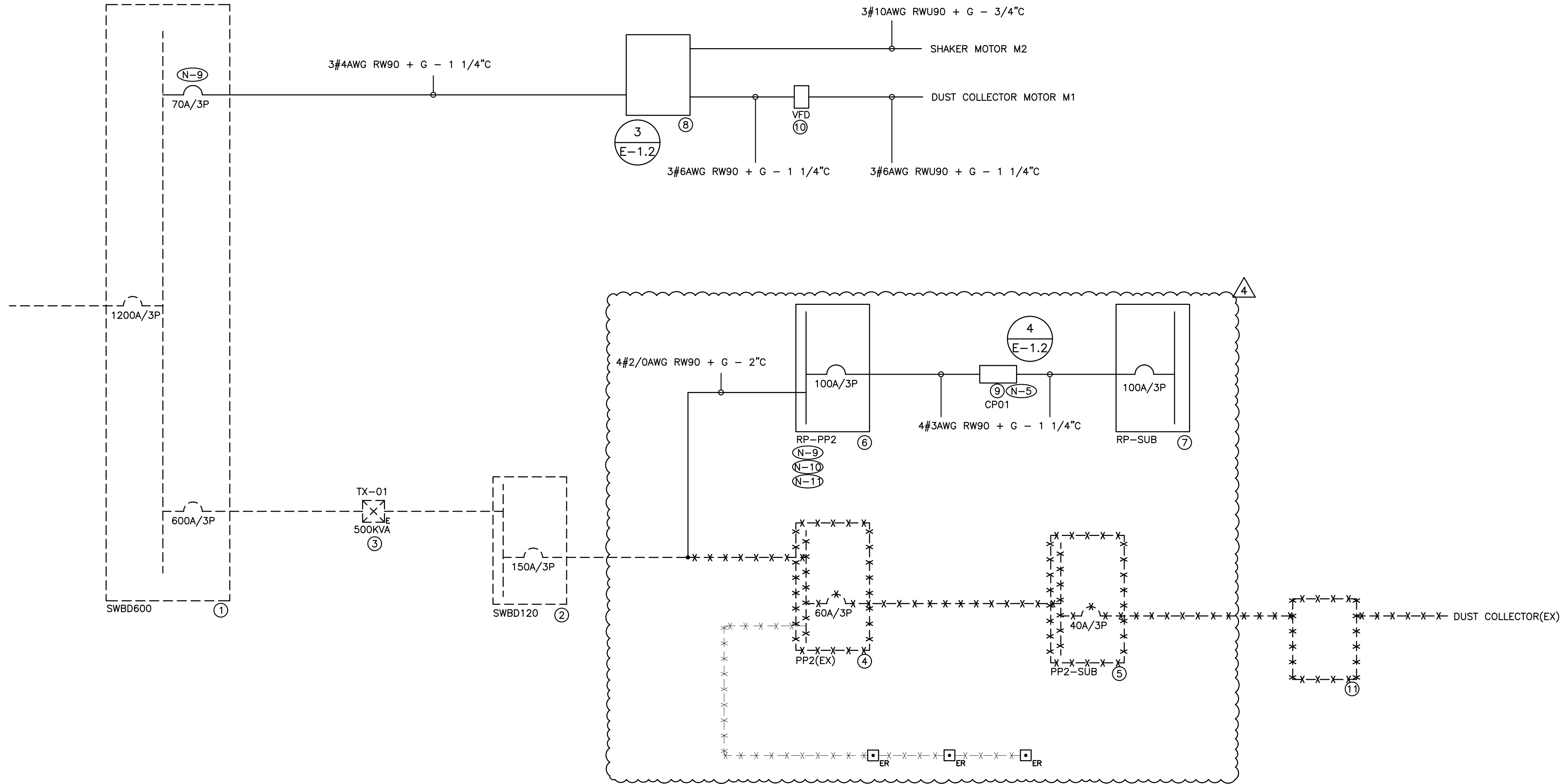
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Tel: (905) 666-5252  
Fax: (905) 666-5256  
e-mail: bba@bba-archeng.com

DESIGN BY:	DOC CONTROL:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:
DATE:	
SCALE: NTS	
FILE:	

PROJECT NO: <b>24141.1</b>	DRAWING NO: <b>E-7.1</b>
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- (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/TYPE 3R 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) AS PART OF THIS SCOPE OF WORK, PROVIDE LAMACOID PLATE DETAILING OPERATION OF CONTACTOR IN RESPONSE TO ON/OFF STATUS OF DUST COLLECTOR.
- (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) CUT BACK, REWORK AND EXTEND EXISTING FEEDER (CONDUIT AND WIRE) TO ACCOMMODATE INSTALLATION OF DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE JUNCTION BOXES AND LUGS FOR EXTENDING EXISTING FEEDERS.
- (N-10) SWING OVER FOURTY-TWO (42) EXISTING CIRCUITS FROM PANEL PP2(EX) REMOVED AS PART OF THIS SCOPE OF WORK TO NEW PANEL RP-PP2 PROVIDED AS PART OF THIS SCOPE OF WORK TO MAINTAIN EXISTING SERVICES. EXISTING TO REMAIN SERVICES TO BE IDENTIFIED DURING CONSTRUCTION BY THE ELECTRICAL CONTRACTOR AND ARE NOT SHOWN ON THE DRAWINGS. PROVIDE NEW BREAKERS. PROVIDE/EXTEND CONDUIT AND WIRE FEEDING EXISTING BRANCH DEVICES AND TIE INTO RESPECTIVE CIRCUITS BEING RELOCATED TO NEW PANEL RP-PP2 AS PART OF THIS CONTRACT.
- (N-11) SWING OVER NINE (9) EXISTING CIRCUITS FROM PANEL PP2-SUB REMOVED AS PART OF THIS SCOPE OF WORK TO NEW PANEL RP-PP2 PROVIDED AS PART OF THIS SCOPE OF WORK TO MAINTAIN EXISTING SERVICES. EXISTING TO REMAIN SERVICES TO BE IDENTIFIED DURING CONSTRUCTION BY THE ELECTRICAL CONTRACTOR AND ARE NOT SHOWN ON THE DRAWINGS. PROVIDE NEW BREAKERS. PROVIDE/EXTEND CONDUIT AND WIRE FEEDING EXISTING BRANCH DEVICES AND TIE INTO RESPECTIVE CIRCUITS BEING RELOCATED TO NEW PANEL RP-PP2 AS PART OF THIS CONTRACT.
- (N-12) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-13) USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.

- ① EXISTING SWITCHBOARD - 347/600V/3PH/4W/1200A MCB/SIEMENS FCI/25KA RMS
- ② EXISTING SWITCHBOARD - 120/208V/3PH/4W/1600A MCB/SIEMENS FCI/65KA RMS
- ③ EXISTING DRY TYPE TRANSFORMER - 600/120/208V/3PH/4W/HAMMOND
- ④ EXISTING RECEPTACLE PANEL C/W INTEGRATED CONTACTOR - 120/208V/3PH/4W/225A MAINS/42 CCT/FEDERAL PACIFIC NALP 42-4L/25KA RMS
- ⑤ EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/125A MAINS/20 CCT/CUTLER-HAMMER 3CPL112/25KA RMS
- ⑥ RECEPTACLE PANEL - 120/208V/3PH/4W/150A MCB/84 CCT/SQ D NQ/25KA RMS
- ⑦ RECEPTACLE PANEL - 120/208V/3PH/4W/100A MCB/42 CCT/SQ D NQ/25KA RMS
- ⑧ DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL PROVIDED BY MECHANICAL CONTRACTOR
- ⑨ RELAY PANEL PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 4 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.
- ⑩ VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY MECHANICAL CONTRACTOR
- ⑪ EXISTING DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR

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









- ① EXISTING DUST COLLECTOR CONTROL PANEL REMOVED BY MECHANICAL CONTRACTOR
- ② EXISTING DUST COLLECTOR SPARK DETECTION PANEL REMOVED BY MECHANICAL CONTRACTOR

PROJECT NO: **24141.1** | DRAWING NO: **E-9.2**

# ***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: **Dust Collector Replacement  
Waterdown District Highschool  
215 Parkside Drive  
Waterdown, Ontario**

HCC Engineering Project No.: **24212  
BCIN# 28954**

Date: **May 22, 2025**

### **1. General**

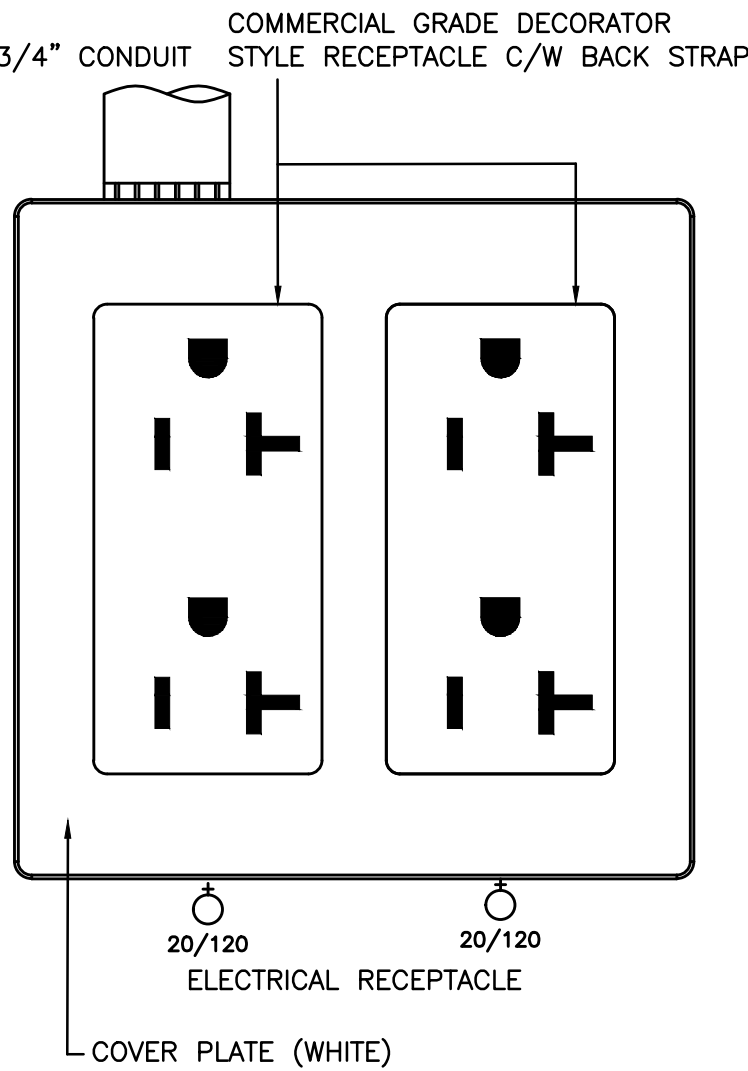
1. This tender addendum is an integral part of the Specifications and Drawings and shall form an integral part of the Contract Documents.

### **2. Drawings**

1. Drawing No. E-1.1 (Reissued with Addendum)
2. Drawing No. E-1.2 (Reissued with Addendum)
3. Drawing No. E-7.1 (Reissued with Addendum)
4. Drawing No. E-9.1 (Reissued with Addendum)
5. Drawing No. E-9.2 (Reissued with Addendum)

End of Tender Addendum #E-01



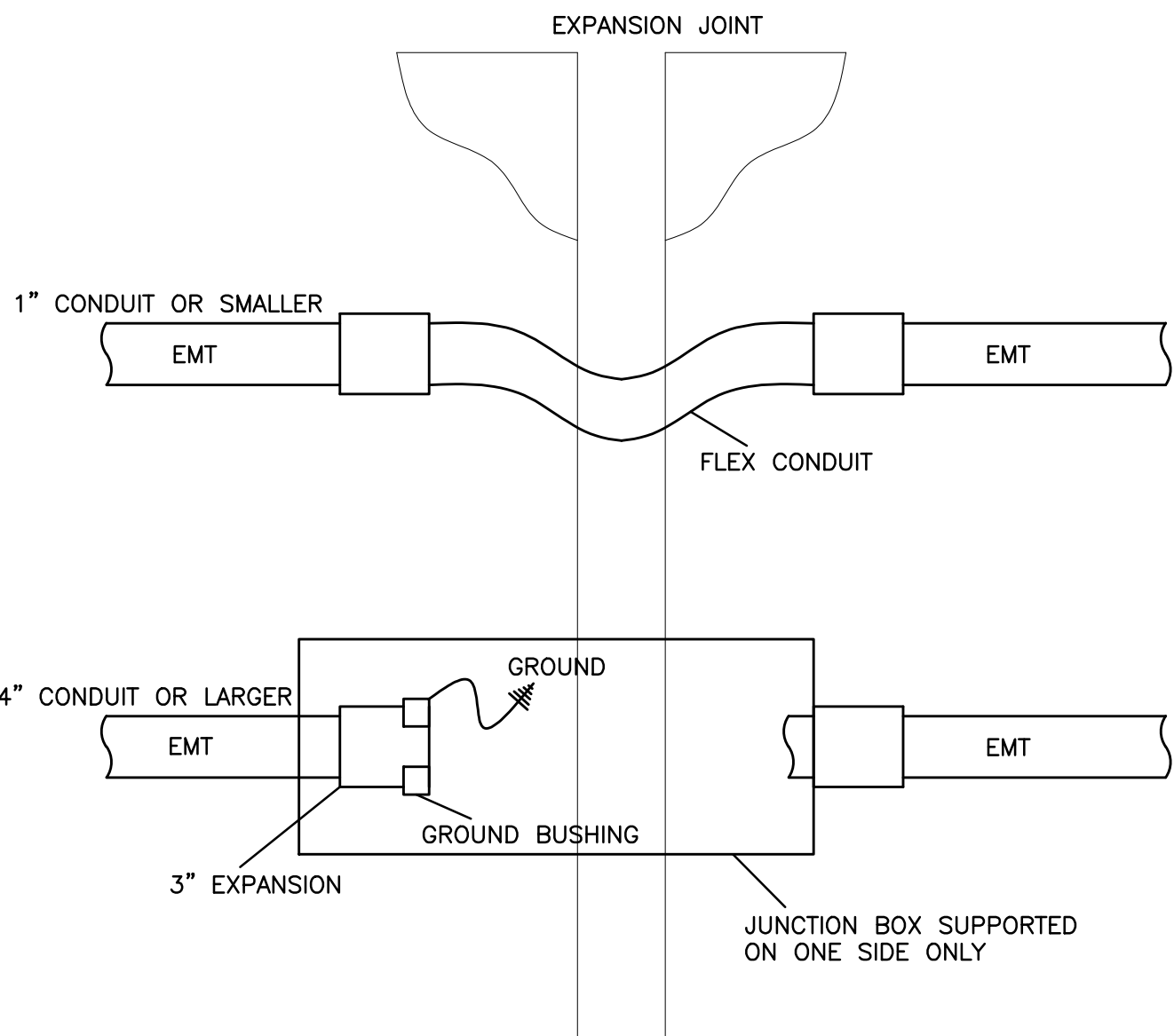


(N-1) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.

UTILITY COT – WHITE RECEPTACLE (WALLS)

MOUNT RECEPTACLES GROUND PIN UP

1 TYPICAL WALL MOUNTED DEVICE DETAIL  
E-1.1 SCALE: NTS



2 EXPANSION JOINT CROSSING DETAIL  
E-1.1 SCALE: NTS

## LEGEND

- ⌀<sup>GFI</sup> 15AMP/120VOLT, U-GROUND DUPLEX RECEPTACLE. GFI DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.
- RECEPTACLE, REQUIREMENT AS NOTED.
- <sub>20/120</sub> 20A/120V DUPLEX RECEPTACLE, CSA 5-20R (T-SLOT). HUBBELL DR20 SERIES.
- E INDICATES EXISTING DEVICE TO REMAIN.
- ER INDICATES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
- R DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.
- RE DENOTES EXISTING DEVICE TO REMAIN. RECIRCUIT AS SHOWN. REMOVE EXISTING CONDUIT AND WIRE BACK TO EXISTING SOURCE. PROVIDE CONDUIT AND WIRE BACK TO NEW SOURCE.
- WP DENOTES NEMA TYPE 4X ENCLOSURE SUITABLE FOR HOSE DIRECTED WATER
- ⊕ DIRECT CONNECTION.
- ⊞ NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION.
- ⊞<sub>30/15A/3P</sub> VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A'
- ⊞<sub>FA</sub> CONTROL ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- ⊞ ISOLATION MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- ⊞ INITIATING DEVICE INTERFACE ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- ⊞<sup>R1</sup> RELAY / COIL
- ⊞ PUSH BUTTON FOR EMERGENCY POWER OFF SHUTDOWN.

- SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
- SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO AC DISTRIBUTION EQUIPMENT, TRANSFORMERS, RECEPTACLE PANELS, FIRE ALARM SYSTEMS, LIGHTING FIXTURES, LIGHTING CONTROLS, LAMACOIDS AND GROUNDING SYSTEM MATERIALS.
- ELECTRICAL CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH ELECTRICAL SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
- CIRCUITING MUST BE COMPLETED AS SHOWN ON DRAWINGS. DO NOT CHANGE CIRCUIT NUMBERS.
- INSTALLATION AND MANUFACTURING OF ALL DEVICES AND SERVICES INCLUDING DISTRIBUTION, LIGHT FIXTURES, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC., MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS, CONSTRUCTION DETAILS, LOCATION OF LIGHT FIXTURES, FINISHES AND COLOURS.
- AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE FIRE ALARM MANUFACTURER, FIRE INSPECTOR AND BUILDING INSPECTOR TO THOROUGHLY REVIEW THE PROPOSED INSTALLATION LOCATIONS FOR EACH AND EVERY CONTROL PANEL, REMOTE ANNUNCIATOR PANEL, ANCILLARY DEVICE, FIELD DEVICE, ETC., TO ENSURE THAT THE PROPOSED INSTALLATION IS FULLY COMPLIANT WITH CAN/ULC S524:2019 AND ONTARIO BUILDING CODE. COMPLIANCE SHALL INCLUDE INTERFERENCE AND PROXIMITY TO EXISTING DEVICES AND OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SUPPLY AIR DUCTS, EXPOSED DUCT WORK, BEAMS, RACEWAYS, ETC.), SPACING BETWEEN FIELD DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK IN PROPOSED INSTALLATION LOCATIONS, ETC..
- AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
- FIRE ALARM SYSTEM TESTING AND VERIFICATIONS MUST TAKE PLACE BETWEEN 11PM AND 5AM DURING THE WEEK.
- AS BUILT DRAWING REQUIREMENTS:  
AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE ELECTRICAL CONTRACTOR.
  - ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
  - ROUTING OF ALL FEEDERS, BRANCH WIRING (LIGHTING, EMERGENCY LIGHTING, POWER, ETC), LOW VOLTAGE WIRING, MISCELLANEOUS SYSTEMS WIRING, MISCELLANEOUS CONDUIT SYSTEMS, ETC. TO BE SHOWN ON AS BUILT DRAWINGS. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL SCOPES OF WORK REQUIRED TO BE COMPLETED IN OCCUPIED AREAS OF THE FACILITY INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 11PM AND 5AM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES AND RAISED FLOOR TILES TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- REMOVAL AND REINSTALLATION OF CEILING TILES IN OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ALL PANEL SCHEDULE DIRECTORIES MUST BE UPDATED AND TYPEWRITTEN PANEL SCHEDULE DIRECTORIES MUST BE PROVIDED. SELF-ADHESIVE LABELING TAPE MUST BE USED FOR ALL LABELING AT ALL OUTLETS. LAMACOIDS MUST BE USED FOR LABELING OF ALL ELECTRICAL ENCLOSURES.
- THE CONTRACTOR MUST ENSURE THAT FIRESTOPPING AND SEALANTS ARE INSTALLED AT NEW FLOOR OPENINGS IN ACCORDANCE WITH THE CURRENT FIRE CODE REQUIREMENTS AND TO PREVENT WATER LEAKAGE TO THE FLOORS BELOW. AREAS PRONE TO WATER LEAKAGE ARE TO BE WATERPROOFED PRIOR TO INSTALLATION OF THE TENANT FLOOR COVERINGS. THE LANDLORD WILL APPROVE THE PROPOSED WATERPROOFING METHOD PRIOR TO THE TENANT PROCEEDING WITH CONSTRUCTION.
- PROVIDE A REPORT FROM THE MANUFACTURER FOR ALL FIRESTOP ASSEMBLIES PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT MUST DETAIL COMPLIANCE WITH ONTARIO BUILDING CODE.

### DRAWING LIST

E-1.1	- ELECTRICAL LEGEND AND DETAILS
E-1.2	- ELECTRICAL DETAILS
E-2.1	- ELECTRICAL PLAN - GROUND FLOOR
E-4.1	- ELECTRICAL GROUNDING SYSTEM DETAILS
E-7.1	- ELECTRICAL SINGLE LINE DIAGRAM
E-9.1	- ELECTRICAL PLAN - WOOD SHOP
E-9.2	- ELECTRICAL DEMOLITION PLAN - WOOD SHOP

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.

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1	ISSUED FOR REVIEW	DEC. 04 2024	KZ
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3	ISSUED FOR TENDER	MAY. 5 2025	KZ
⚠	ISSUED FOR ADDENDUM E-01	MAY. 22 2025	KZ

**HCC ENGINEERING**  
DESIGN AND TECHNOLOGY SERVICES GROUP  
HCC ENGINEERING LIMITED  
SUITE 310  
200 KING STREET WEST  
TORONTO, ONTARIO, M5H 3T4  
Tel: (416) 932-5243

NO.	REVISIONS	DATE	BY



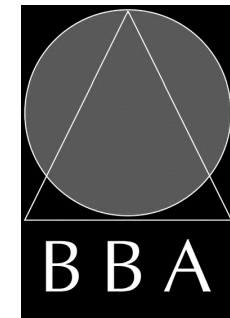
PROJECT:

**WATERDOWN DISTRICT  
HIGH SCHOOL  
DUST COLLECTOR REPLACEMENT**

215 PARKSIDE DRIVE  
WATERDOWN, ONTARIO L8B 1B9  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL LEGEND  
AND DETAILS**



**BARRY BRYAN  
ASSOCIATES**

Architects  
Engineers  
Project Managers

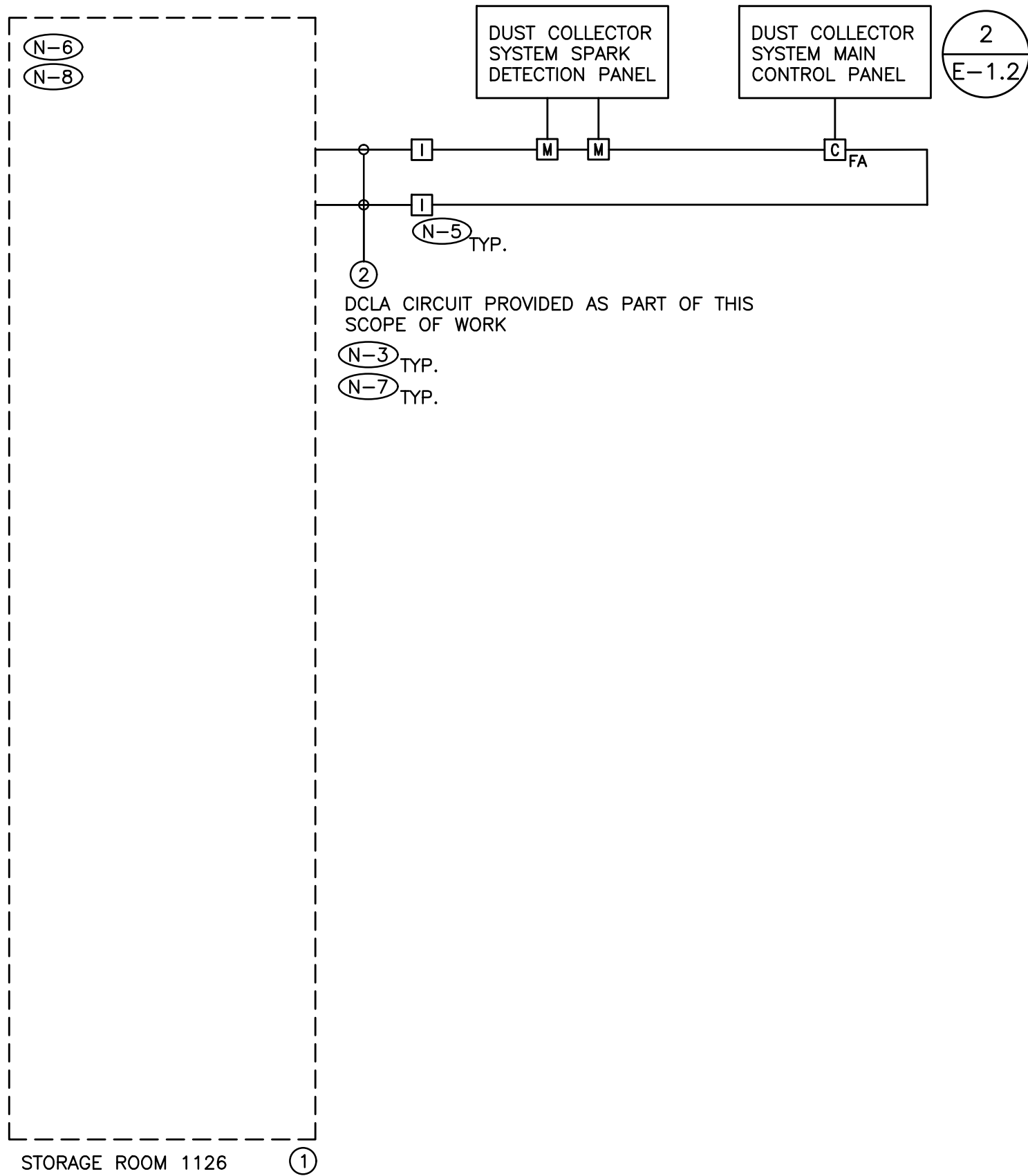
250 Water Street  
Suite 201  
Whitby Ontario  
L1N 0G5  
Tel: (905) 666-5252  
Fax: (905) 666-5256  
e-mail: bba@bba-archeng.com

DESIGN BY:	DOC CONTROL:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:

DATE:
SCALE: AS SHOWN
FILE:

PROJECT NO: <b>24141.2</b>	DRAWING NO: <b>E-1.1</b>
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- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF STROBE LIGHT CIRCUITS, BELL CIRCUITS, 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, 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) PROVIDE LINE ISOLATOR MODULES TO ISOLATE DCLA SEGMENTS ON A PER FIRE ALARM ZONE BASIS, ON A PER FLOOR BASIS AND AS REQUIRED BY THE MANUFACTURER AND BY ONTARIO BUILDING CODE. NOTE: PROVIDE ADDITIONAL LINE ISOLATOR MODULES AS REQUIRED OVER AND ABOVE THOSE SHOWN ON RISER DIAGRAM TO SATISFY ISOLATION REQUIREMENTS.
- (N-6) MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATION.
- (N-7) EACH DCLA WIRING LOOP SHALL BE LIMITED TO SERVING DEVICES ON ONE FLOOR.
- (N-8) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL 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) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.

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

BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER  
TYCO INTEGRATED FIRE & SECURITY  
MATT FLINTOFF  
CELL: 289-260-9830  
MATTHEW.FLINTOFF@JCI.COM

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

DWG FIRE ZONE NO.	FIRE ZONE ID LABEL (N-1) TYP	INITIATING DEVICE	ALARM SIGNAL	TROUBLE SIGNAL
01	DUST COLLECTOR ALARM	[M]	*	
02	DUST COLLECTOR TROUBLE	[M]		*

- (N-1) ZONE DESCRIPTION TO BE DETERMINED ON SITE.
- (N-2) 'SC' DENOTES SUPERVISORY CONTACT.
- (N-3) SEQUENCE OF OPERATIONS AND ALARM/ALERT SIGNALING REQUIREMENTS TO BE COORDINATED WITH AUTHORITY HAVING JURISDICTION, CONSULTANT, MECHANICAL CONTRACTOR, FIRE ALARM MANUFACTURER AND LANDLORD THROUGH SHOP DRAWING APPROVAL PROCESS.

DO NOT SCALE THE DRAWINGS.  
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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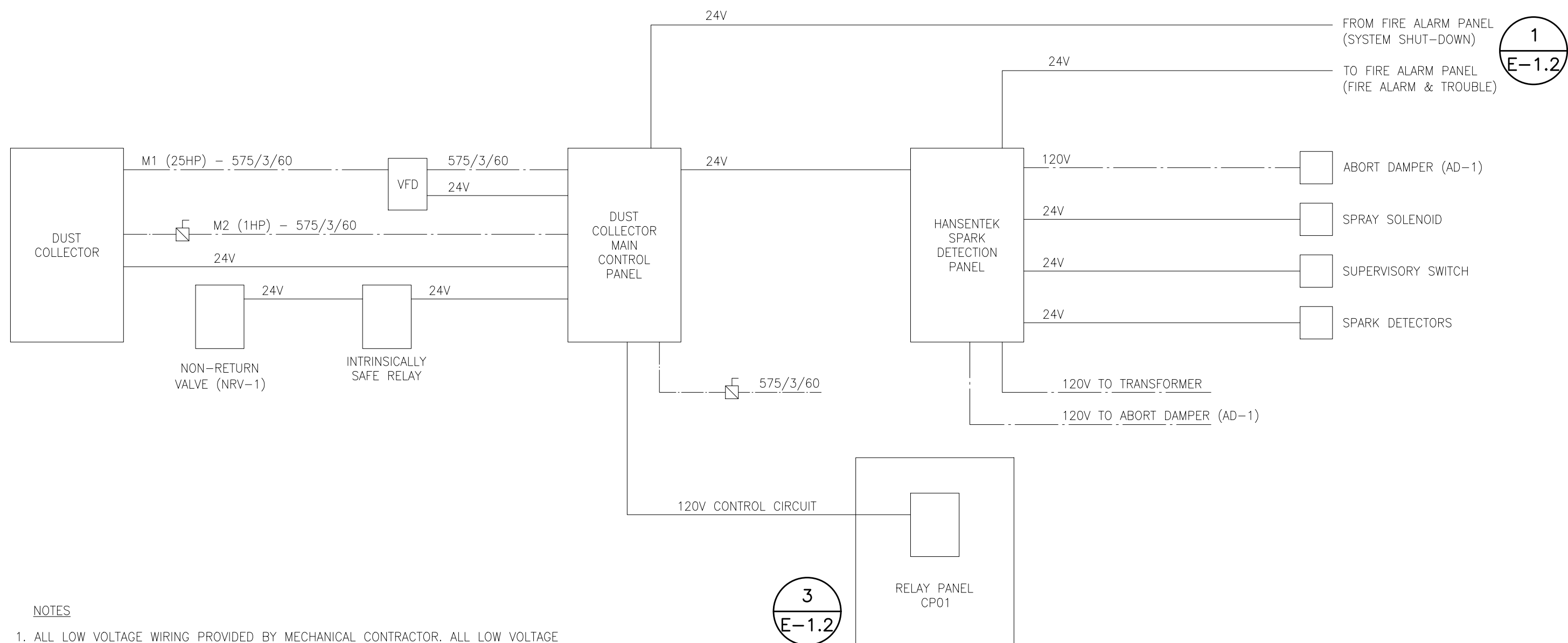
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4	ISSUED FOR ADDENDUM E-01	MAY. 22 2025	KZ

**HCC ENGINEERING**  
DESIGN AND TECHNOLOGY SERVICES GROUP  
HCC ENGINEERING LIMITED  
200 KING STREET WEST  
SUITE 310  
TORONTO, ONTARIO, M5H 3T4  
Tel: (416) 932-2423

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

2 FIRE ALARM SYSTEM ZONE SCHEDULE  
E-1.2 SCALE: NTS

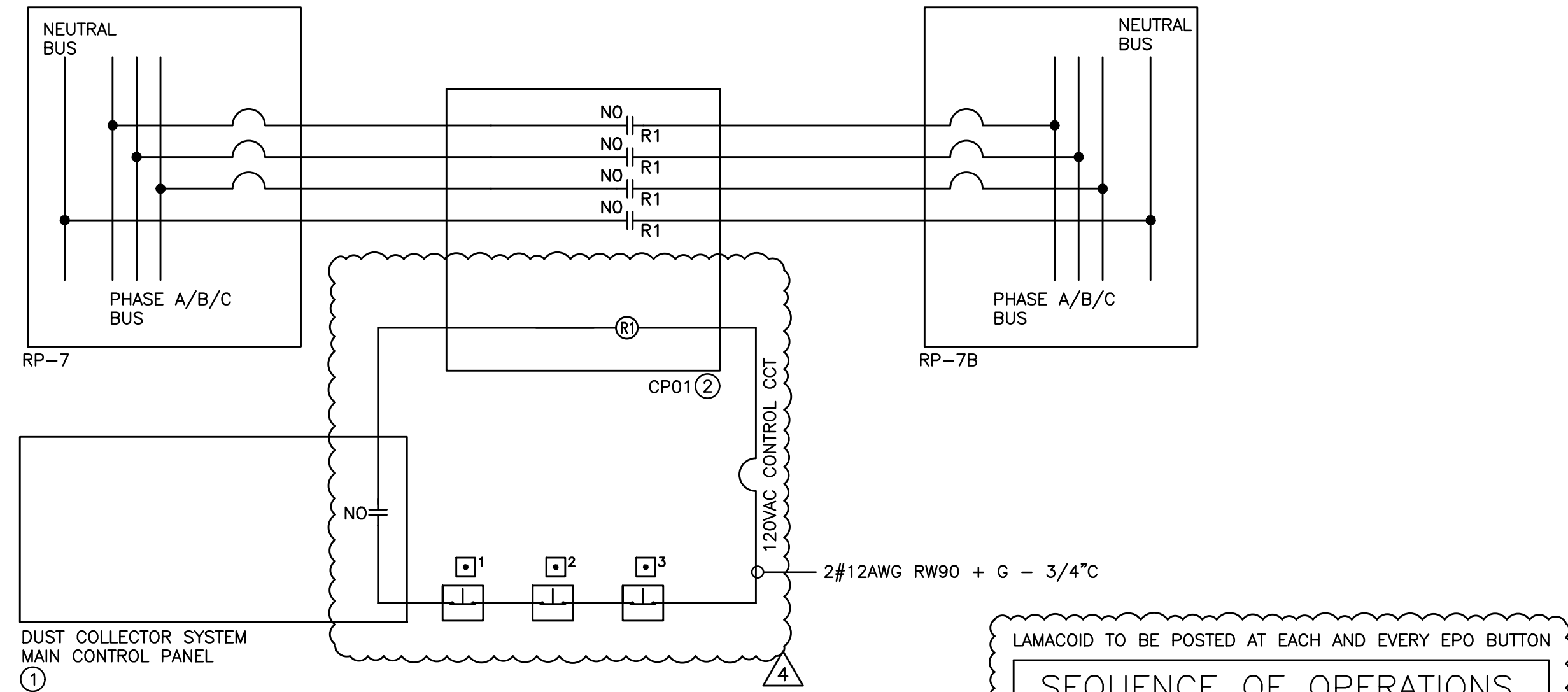


- NOTES
- ALL LOW VOLTAGE WIRING PROVIDED BY MECHANICAL CONTRACTOR; ALL LOW VOLTAGE CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR.
  - ALL LINE VOLTAGE WIRING AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR.
  - REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
  - PROVIDE THE MOST SUITABLE ROUTING FOR CONDUIT/WIRING BETWEEN EQUIPMENT.
  - FIRESTOP ALL CONDUIT PENETRATIONS IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
  - THIS SCHEMATIC IS A GENERAL REPRESENTATION ONLY; REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR EXACT CONNECTION DETAILS AND FOR ADDITIONAL REQUIREMENTS.

LEGEND:

————— LINE VOLTAGE WIRING PROVIDED AS PART OF THIS SCOPE OF WORK

————— LOW VOLTAGE WIRING PROVIDED BY MECHANICAL CONTRACTOR

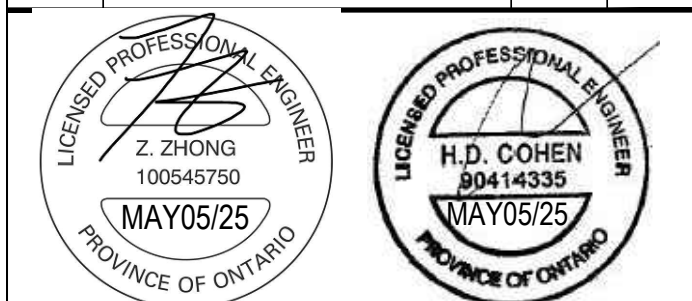


- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF CONTROL PANELS, CONTROLLERS, SENSORS, HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, POWER SOURCES, ETC., TESTING AND COMMISSIONING TO ENSURE A FULLY OPERATIONAL GAS DETECTION SYSTEM.
- (N-2) REFER TO FLOOR PLAN FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES.
- (N-3) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) PROVIDE ALL SOFTWARE, PROGRAMMING, LICENSES, COMPONENTS, ACCESSORIES AND TESTING AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK NOTED ON DRAWINGS AND IN SPECIFICATIONS.
- (N-5) ALL LOW VOLTAGE WIRING TO BE ENCLOSED IN A CONDUIT SYSTEM.
- (N-6) LAMACOID PLATES DETAILING EPO SEQUENCE OF OPERATIONS PROVIDED AS PART OF THIS SCOPE OF WORK SHALL BE POSTED BY EACH AND EVERY EPO BUTTON.

- ① DUST COLLECTOR SYSTEM MAIN CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR
- ② RELAY PANEL C/W MULTI-POLE CONTACTOR PROVIDED AS PART OF THIS SCOPE OF WORK - SCHNEIDER ELECTRIC 8903SQG3V84FF4TX22 C/W 18.15"W X 29.15"H X 9.24"D WALL MOUNTED ENCLOSURE
- ③ EMERGENCY STOP NORMALLY CLOSED MAINTAINED PUSH/PULL TO RELEASE 1.6" DIAMETER RED MUSHROOM HEAD EPO BUTTON PROVIDED AS PART OF THIS SCOPE OF WORK. SCHNEIDER ELECTRIC XB7NT844.

4 WOOD SHOP EQUIPMENT PANEL WIRNG SCHEMATIC  
E-1.2 SCALE: NTS

NO.	REVISIONS	DATE	BY
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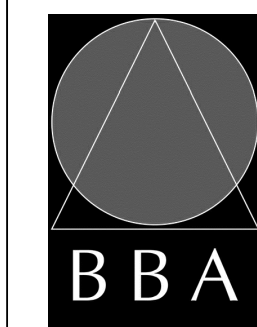
PROJECT:

**WATERDOWN DISTRICT HIGH SCHOOL DUST COLLECTOR REPLACEMENT**

215 PARKSIDE DRIVE  
WATERDOWN, ONTARIO L8B 1B9  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL DETAILS**



**BARRY BRYAN ASSOCIATES**

Architects  
Engineers  
Project Managers

250 Water Street  
Suite 201  
Whitby Ontario  
L1N 0G5

Tel: (905) 666-5252  
Fax: (905) 666-5256  
e-mail: bba@bba-archeng.com

DESIGN BY:	DOC CONTROL:
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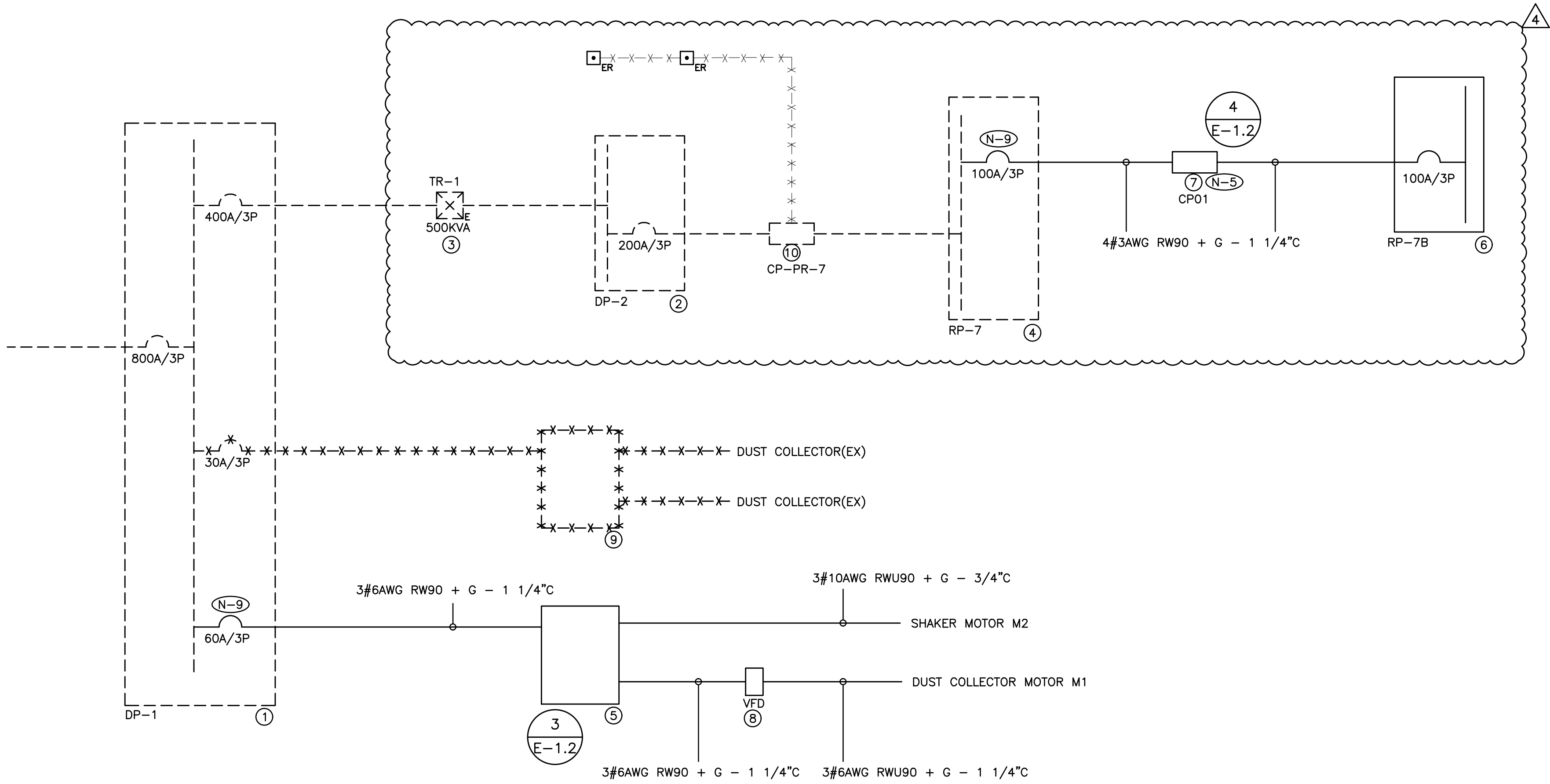
SCALE:  
AS SHOWN

FILE:

PROJECT NO: **24141.2**

DRAWING NO: **E-1.2**





- (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/TYPE 3R 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) AS PART OF THIS SCOPE OF WORK, PROVIDE LAMACOID PLATE DETAILING OPERATION OF CONTACTOR IN RESPONSE TO ON/OFF STATUS OF DUST COLLECTOR.
- (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 A PANEL MANUFACTURER TO EXTEND, REWORK, MODIFY AND RECERTIFY EXISTING PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-10) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-1) USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.

- ① EXISTING SWITCHBOARD - 347/600V/3PH/4W/800A MCB/EATON PRL 4/25KA RMS
- ② EXISTING SWITCHBOARD - 120/208V/3PH/4W/1200A MCB/EATON PRL C/22KA RMS
- ③ EXISTING DRY TYPE TRANSFORMER - 600/120/208V/3PH/4W/HAMMOND
- ④ EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/225A MAINS/84 CCT/EATON PRL1 A/10KA RMS
- ⑤ DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL PROVIDED BY MECHANICAL CONTRACTOR
- ⑥ RECEPTACLE PANEL - 120/208V/3PH/4W/100A MCB/42 CCT/SQ D NQ/22KA RMS
- ⑦ RELAY PANEL PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.
- ⑧ VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY MECHANICAL CONTRACTOR
- ⑨ EXISTING DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR
- ⑩ EXISTING CONTACTOR PANEL

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

DO NOT SCALE THE DRAWINGS.  
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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**HWDSB**

NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	DEC. 04 2024	KZ
2	ISSUED FOR PERMIT	JUN. 22 2025	KZ
3	ISSUED FOR TENDER	MAY. 5 2025	KZ
4	ISSUED FOR ADDENDUM E-01	MAY. 22 2025	KZ

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DESIGN AND TECHNOLOGY SERVICES GROUP  
HCC ENGINEERING LIMITED  
200 KING STREET WEST  
SUITE 310  
TORONTO, ONTARIO, M5H 3T4  
Tel: (416) 932-2423

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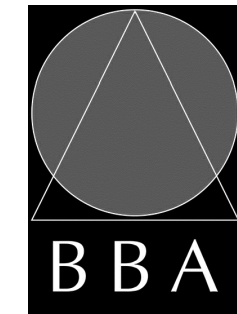
PROJECT:

**WATERDOWN DISTRICT  
HIGH SCHOOL  
DUST COLLECTOR REPLACEMENT**

215 PARKSIDE DRIVE  
WATERDOWN, ONTARIO L8B 1B9  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

**ELECTRICAL  
SINGLE LINE DIAGRAM**



**BARRY BRYAN  
ASSOCIATES**

Architects  
Engineers  
Project Managers

250 Water Street  
Suite 201  
Whitby Ontario  
L1N 0G5

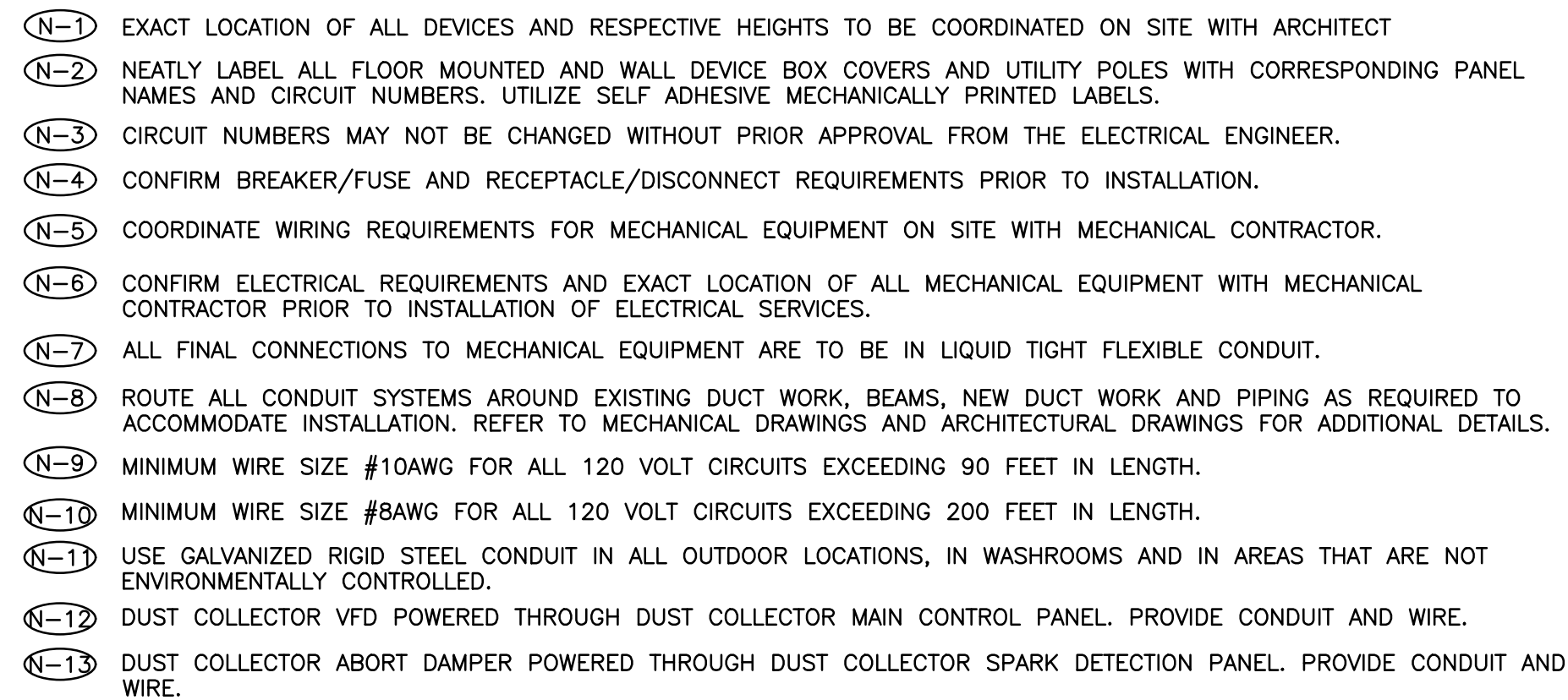
Tel: (905) 666-5252  
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e-mail: bba@bba-archeng.com

DESIGN BY:	DOC CONTROL:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:

DATE:
SCALE: NTS
FILE:

PROJECT NO:  
**24141.2**

DRAWING NO:  
**E-7.1**



- ① DUST COLLECTOR CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR
- ② DUST COLLECTOR SPARK DETECTION PANEL PROVIDED BY MECHANICAL CONTRACTOR
- ③ APPROXIMATE ROUTING OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK FOR BRANCH CIRCUITS/FEEDERS/ETC., PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. E-7.1 AND TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS.
- ④ DUST COLLECTOR VFD PROVIDED BY MECHANICAL CONTRACTOR
- ⑤ DUST COLLECTOR PROVIDED BY MECHANICAL CONTRACTOR

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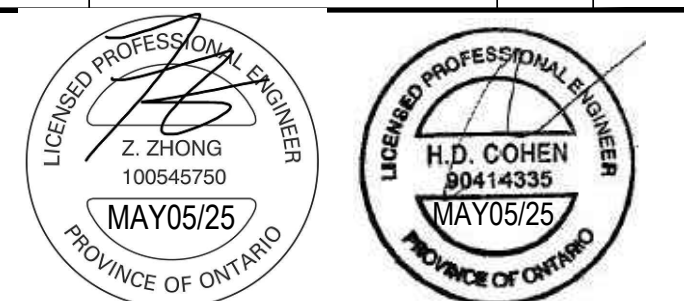
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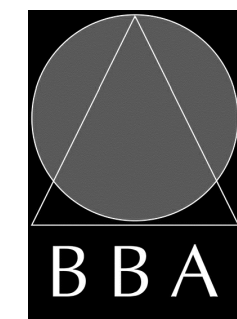
**WATERDOWN DISTRICT  
HIGH SCHOOL  
DUST COLLECTOR REPLACEMENT**

215 PARKSIDE DRIVE  
WATERDOWN, ONTARIO L8B 1B9

HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL PLAN  
WOOD SHOP



BARRY BRYAN  
ASSOCIATES

Architects  
Engineers  
Project Managers

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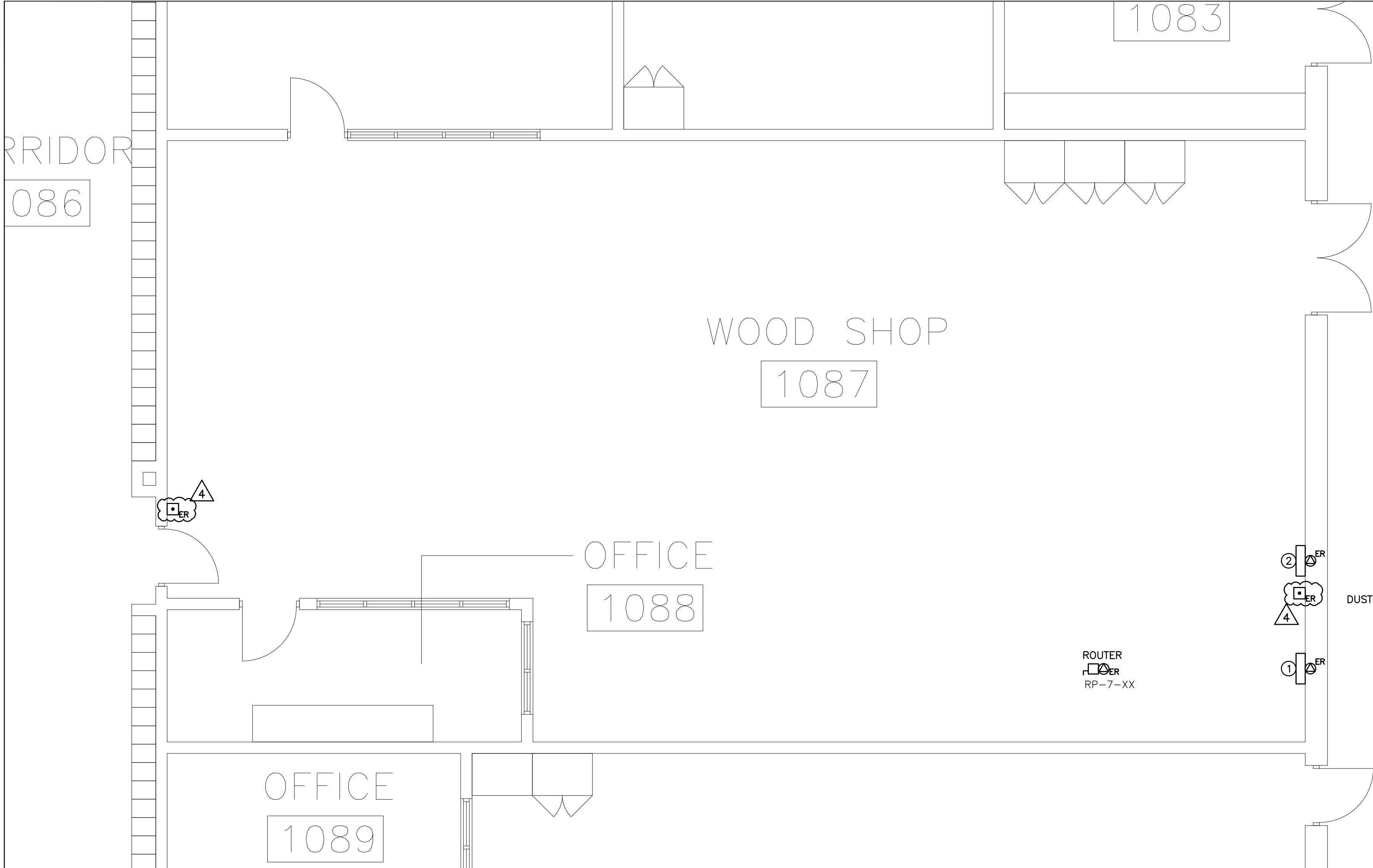
PROJECT NO:

**24141.2**

DRAWING NO:

## E-9.1





- 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

BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF TWO (2) ADDITIONAL RECEPTACLES/DIRECT CONNECTIONS, COMMUNICATIONS ROUGH-INS, ETC., OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-9.2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- N-4

DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC., REMOVED AS PART OF THIS SCOPE OF WORK.
- N-5

REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.
- N-6

NOT USED
- N-7

CONFIRM DEMOLITION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO DISCONNECTING MECHANICAL EQUIPMENT.
- N-8

ALL EXISTING CIRCUITS SHOWN ARE FOR REFERENCE PURPOSES ONLY. CONTRACTOR MUST TRACE CIRCUITS AND CONFIRM INFORMATION PRIOR TO DISCONNECTION AND REWORKING / REMOVING OF CIRCUITS.

- 1

EXISTING DUST COLLECTOR CONTROL PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR.
- 2

EXISTING DUST COLLECTOR SPARK DETECTION PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR.

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DUST COLLECTOR REPLACEMENT**

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DRAWING:

**ELECTRICAL  
DEMOLITION PLAN  
WOOD SHOP**

BBA

BARRY BRYAN ASSOCIATES

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Engineers  
Project Managers

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Fax: (905) 666-5256  
e-mail: bba@bba-archeng.com

DESIGN BY:

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PROJECT NO:  
**24141.2**

DRAWING NO:  
**E-9.2**