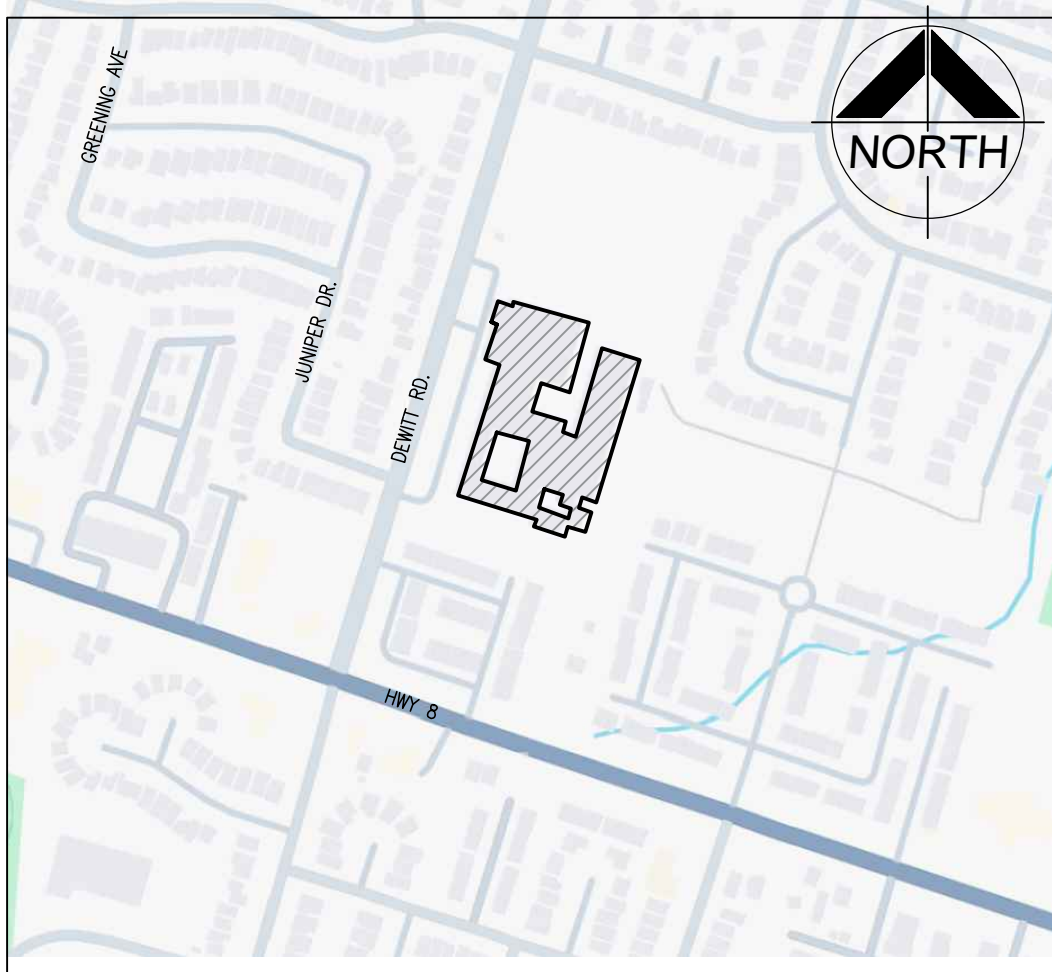
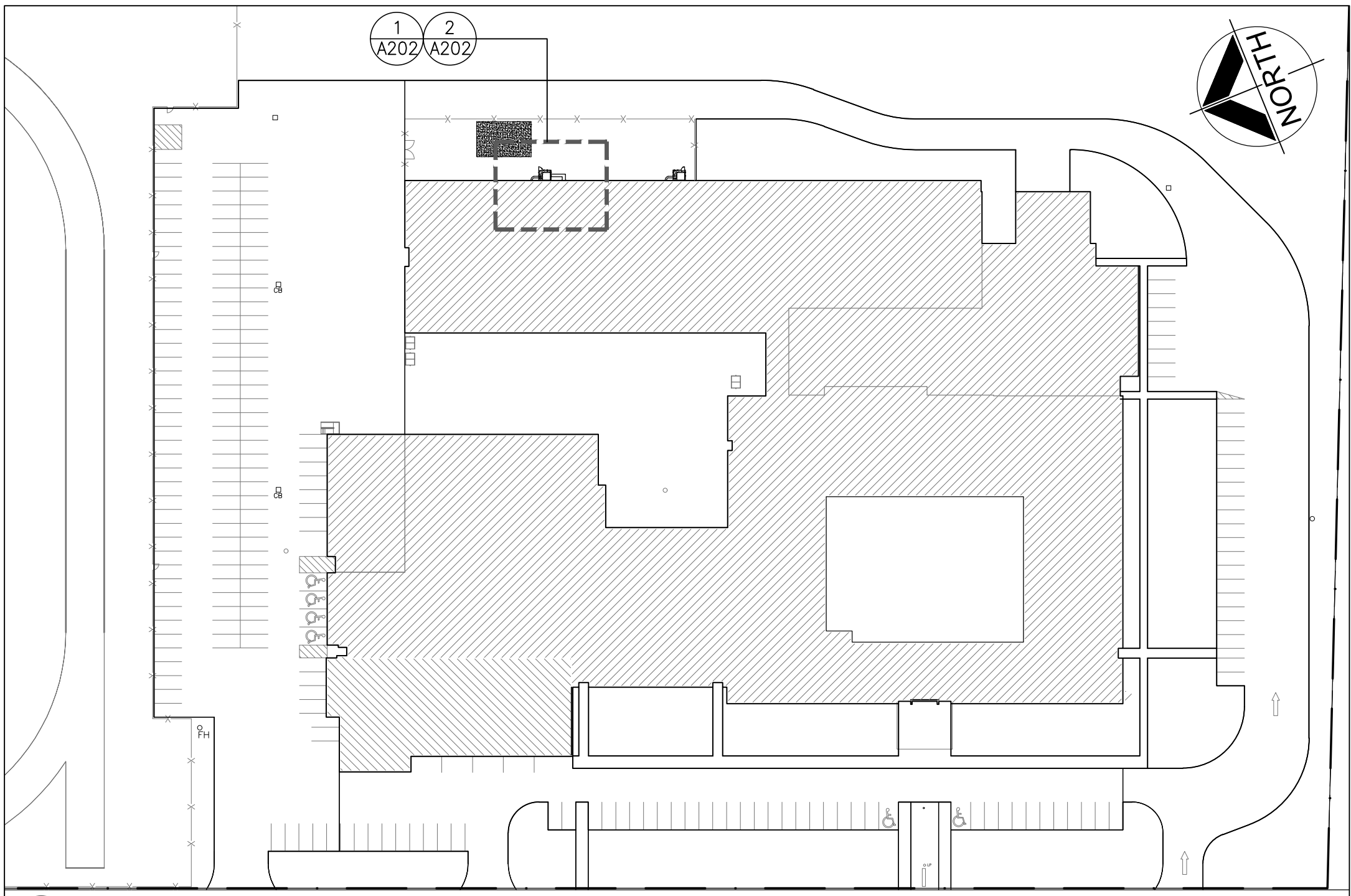


Orchard Park Secondary School  
Dust Collector Replacement

200 Dewitt Road  
Hamilton, Ontario



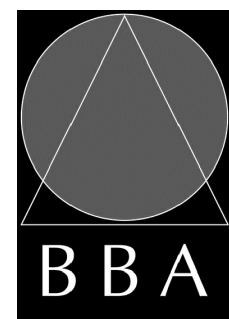
1  
A000 LOCATION PLAN  
N.T.S.



2  
A000 SITE PLAN  
N.T.S.

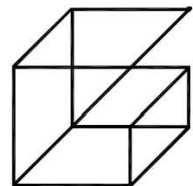
CONSULTANTS

ARCHITECTURAL/STRUCTURAL:



**BARRY BRYAN ASSOCIATES**  
Architects  
Engineers  
Project Managers  
250 Water St.  
Suite 201  
Whitby, Ontario  
L1N 0G5  
Tel: (905) 666-5252  
Fax: (905) 666-5256  
e-mail: bba@bba-archeng.com

MECHANICAL :



**Giallonardo —  
Engineering Inc.**  
228-4559 Highway 7  
Woodbridge, ON  
L4L 4Y7  
(905) 265-1852  
1info@giallonardoeng.com  
www.giallonardoeng.com

ELECTRICAL:



LIST OF DRAWINGS

ARCHITECTURAL

- A001 OBC MATRIX, OVERALL KEY PLAN  
LOCATION PLAN & DRAWING LIST
- A201 OVERALL GROUND FLOOR PLAN
- A202 #1073 WORK SHOP FLOOR PLAN -  
DUST COLLECTOR : DEMO
- A203 #1073 WORK SHOP FLOOR PLAN -  
DUST COLLECTOR : RENO
- A301 #1073 WORK SHOP ELEVATION -  
DUST COLLECTOR

STRUCTURAL

- S201 GENERAL NOTES AND DETAILS

MECHANICAL

- M - 0 TITLE SHEET
- M - 1.1 MECHANICAL LEGEND
- M - 1.2 MECHANICAL SCHEDULES AND DETAILS
- M - 2.1 DUST COLLECTION SYSTEM - DEMOLITION
- M - 2.2 DUST COLLECTION SYSTEM - NEW
- M - 2.3 DUST COLLECTION SYSTEM - EAST ELEVATION

ELECTRICAL

- 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

NAME OF CONSULTANT : BARRY BRYAN ASSOCIATES CERTIFICATE OF PRACTICE NUMBER : 5192 250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA. LIN 0G5 TEL : (905) - 666 - 5252 (Toronto) (905) - 427 - 4495 FAX : (905) - 666 - 5256				
NAME OF PROJECT : ORCHARD PARK SECONDARY SCHOOL DUST COLLECTOR REPLACEMENT				
LOCATION OF PROJECT : 200 DEWITT ROAD HAMILTON, ONTARIO DATE : JANUARY 22, 2025				
	Ontario Building Code Data Matrix Part 11 - Renovation of			OBC Reference
11.00	Building Code Version: O_Reg_332/12 Last Amendment: O_Reg_89/23			
11.01	Project Type:	<input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation		[A] 1.1.2.
	Description DUST COLLECTOR REPLACEMENT AT WOOD SHOP			
11.02	Major Occupancy Classification:	Occupancy Group A, Division 2	Use Elementary School	3.1.2.1.(1) & 11.2.1
11.03	Superimposed Major Occupancies:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description -		11.2 & 3.2.2.5. - 3.2.2.8.
11.04	Building Area (m²)	Description Wood Shop Renovation	Existing ±2,170sf New Total ±2,170sf	[A] 1.4.1.2., 11.2, & 11.3.
		Total=	±2,170sf ±2,170sf	
11.05	Building Height*	1 Storeys above grade 0 Storeys below grade (m) Above grade		[A] 1.4.1.2 & 3.2.1.1 & 11.3.
11.06	Number of streets/ fire fighter access:	1 street(s)		3.2.2.10, 3.2.5 & 11.3.
11.07	Building Size:	<input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large		T.11.2.1.1.B.-N.
11.08	Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: - Hazard Index: - Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster		11.2.1 T11.2.1.1A T11.2.1.1B to N, 4.2.1(3) & 5.2.2.1. (2)
11.09	Renovation Type:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation		11.3.3.1 & 11.3.3.2
11.10	Occupant Load:	Floor Level/ Area NO CHANGE	Occupancy Type Based On Occup. Load	3.1.17, 11.4.2.2.
11.11a	Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area Occupant Load OBC Reference Fixtures Required Fixtures Provided NO CHANGE		3.7.4
11.11b	Plumbing Fixture Requirements: cont.	Floor level/ Area (Repeated) B.F. Fixture Required B.F. Fixture Provided Uni. Fixture Required Uni. Fixtures Provided	NO CHANGE	Tables 3.8.2.3.A and 3.8.2.3.B
11.12	Barrier-free Design:	SCOPE NOT RELATED TO B.F. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Barrier-Free Entrances: Explanation		11.3.3.2.(2)
11.13	Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6
11.14	Compensating Construction:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7
11.15	Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		11.5.1.
11.16	Notes:	REPLACE EXISTING DUST COLLECTOR WITH NEW DUST COLLECTOR IN THE SCHOOL SHOP AREAS  AREA SCOPE OF WORK = ± 2,170 SF		11.5.1

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 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

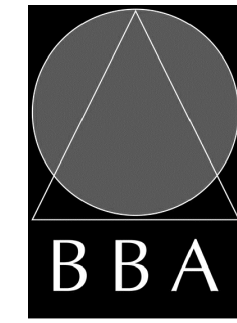
PROJECT:

ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT

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

DRAWING:

OBC MATRIX, OVERALL  
KEY PLAN, LOCATION  
PLAN & DRAWING LIST



**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: BBA	DOC. CONTROL: DATE:
DRAWN BY: KW	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: DEC. 06, 2024	
SCALE: N.T.S.	
FILE:	

PROJECT NO:

24141.1

DRAWING NO:

A001



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 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

NO.	REVISIONS	DATE	BY

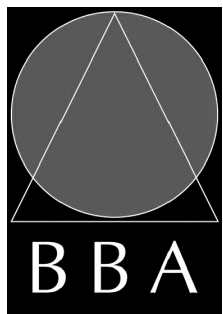
PROJECT:

**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**OVERALL GROUND  
FLOOR PLAN**



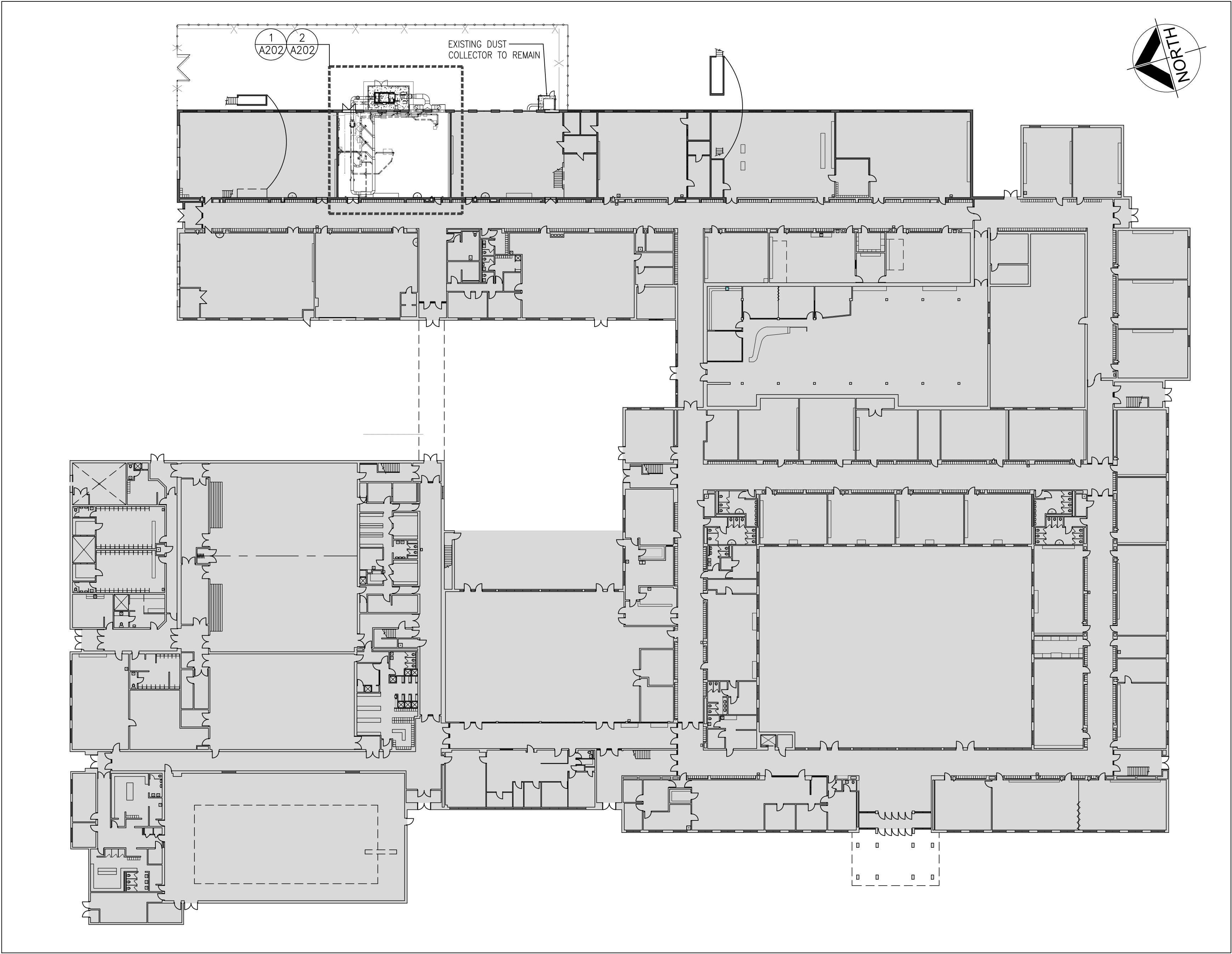
BARRY BRYAN ASSOCIATES  Architects Engineers Project Managers  250 Water Street Suite 201 Whitby Ontario L1N 0G5  Tel: (905) 666-5252 Fax: (905) 666-5256 email: bba@bba-archeng.com	DESIGN BY: BBA	DOC. CONTROL: DATE:
	DRAWN BY: KW	% COMPLETE:
	CHECKED BY:	INITIAL:
	DATE: DEC. 06, 2024	
	SCALE: N.T.S.	
FILE:		

PROJECT NO:

**24141.1**

DRAWING NO:

**A201**



**1**  
**A201**

**OVERALL KEY PLAN**

1/32" = 1' - 0"



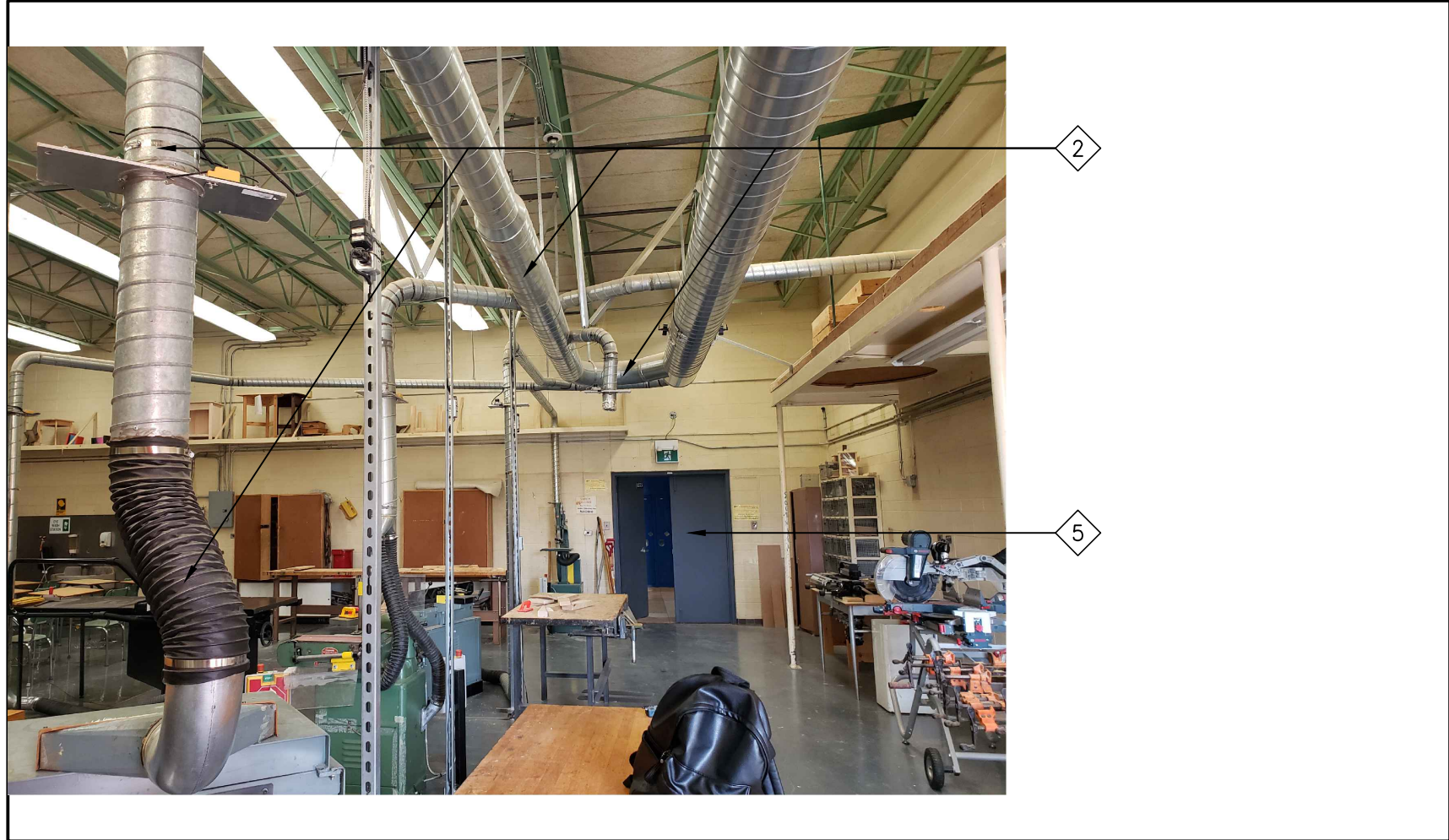


PHOTO-P3

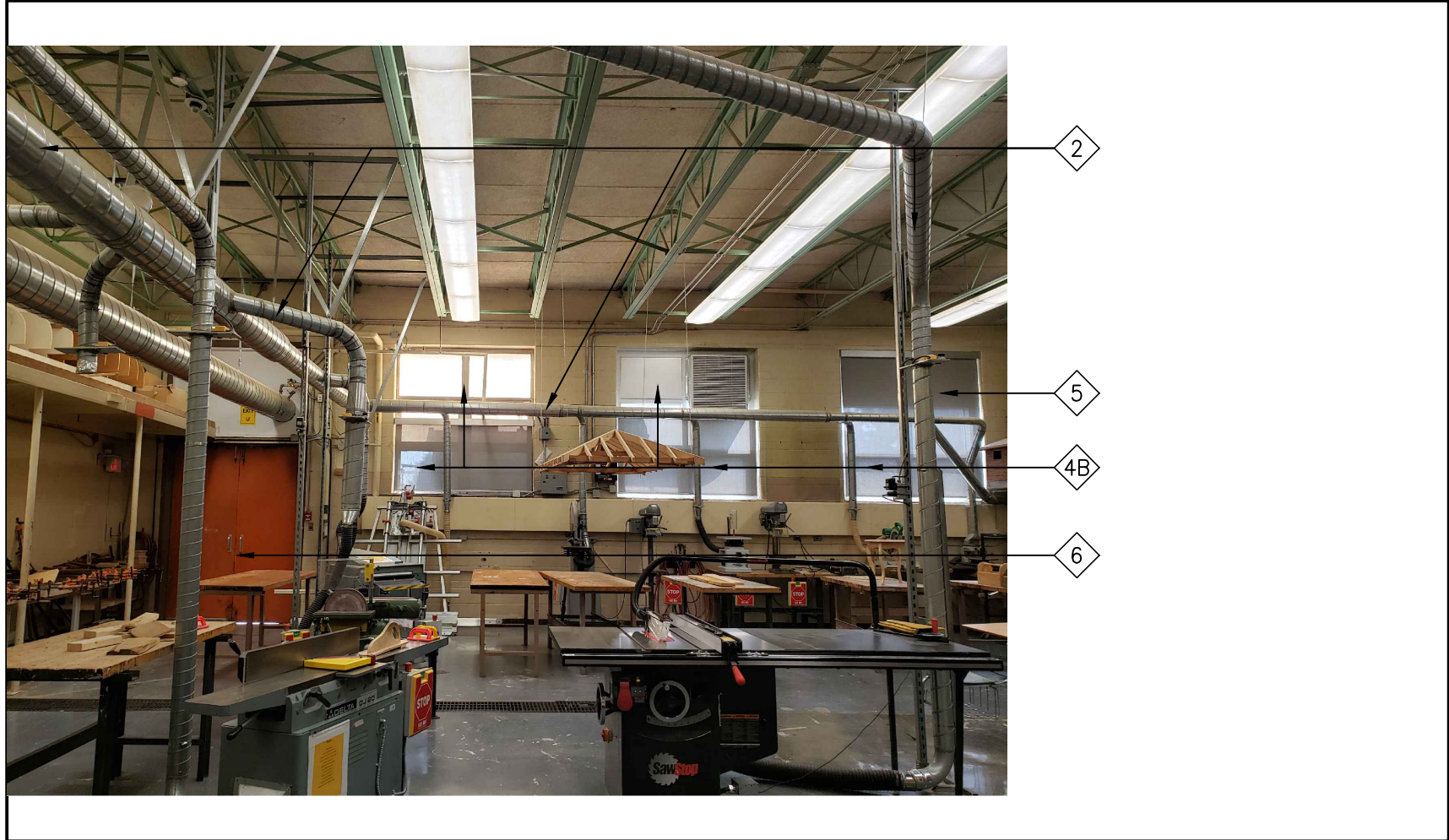


PHOTO-P2

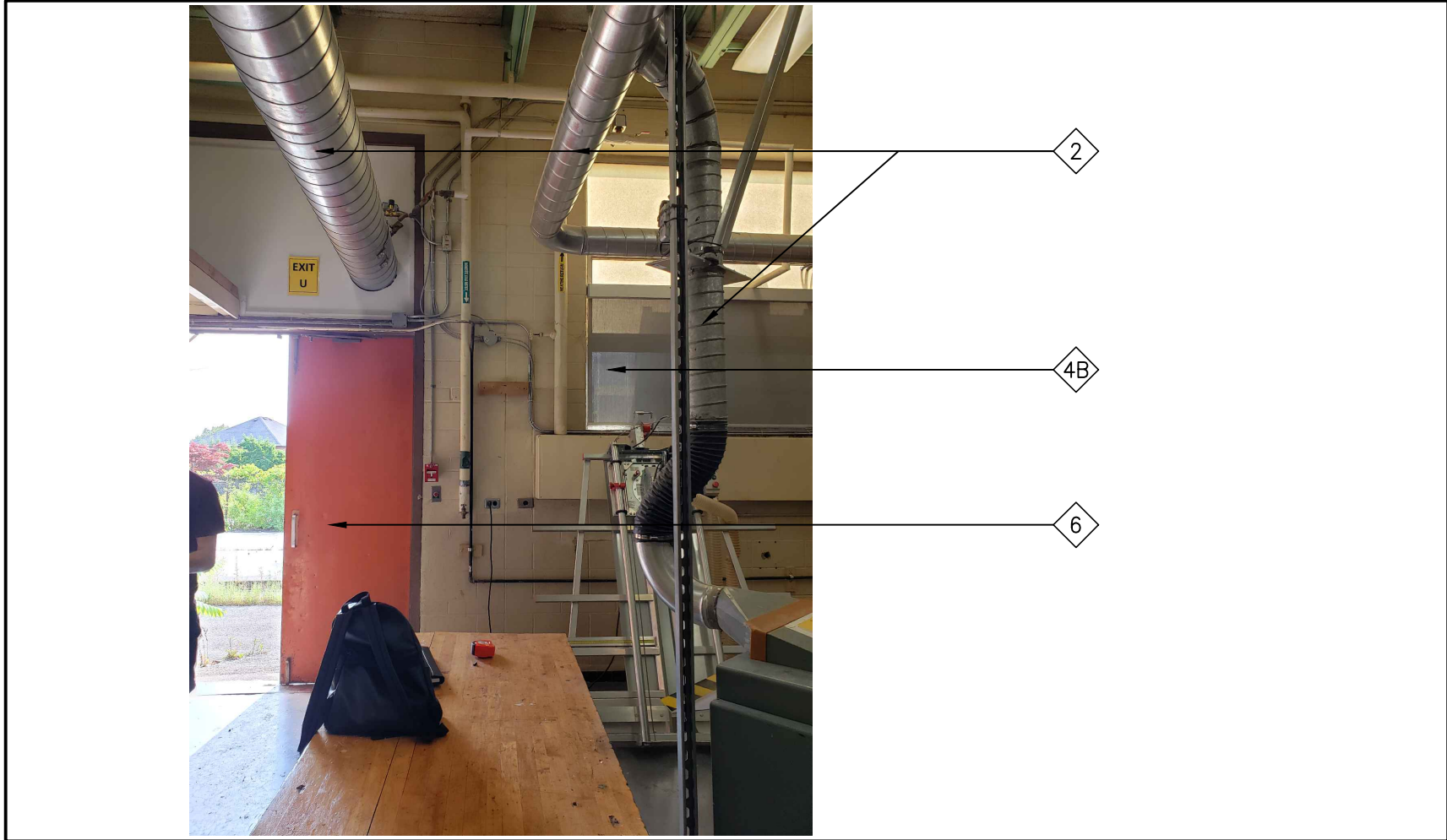


PHOTO-P1

TYPICAL DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
6. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
7. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
8. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
9. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
10. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
11. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
12. REMOVAL ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
13. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
14. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
15. DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
17. CONSTRUCTION AREA TO BE SECURED AT ALL TIMES.
18. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED.
19. REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.
20. COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.
21. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.

DEMOLITION NOTES

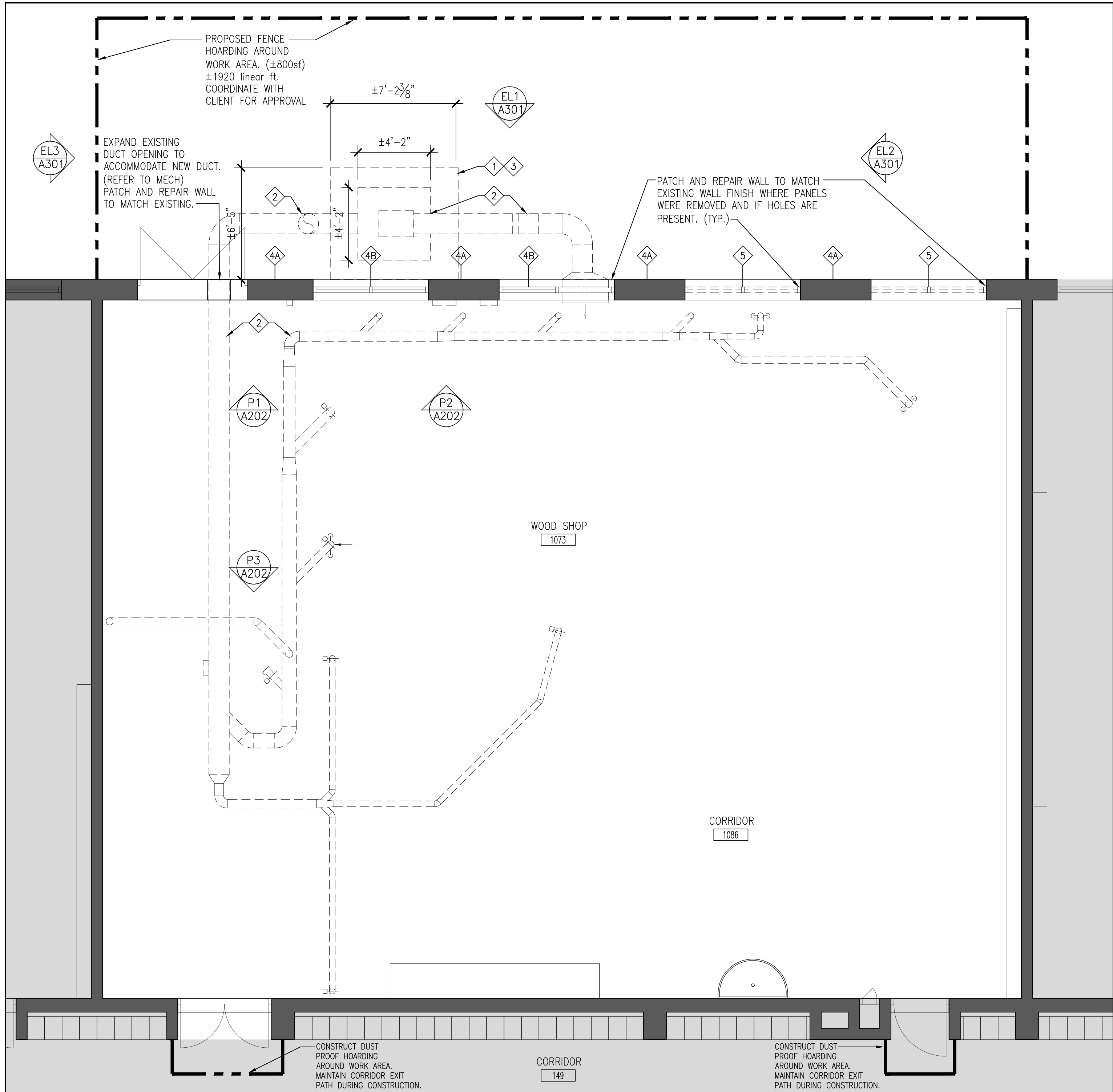
- 1 EXISTING CHAINLINK FENCE AND GATE TO BE REMOVED.
- 2 EXISTING MECHANICAL DUST COLLECTOR AND DUCT WORK TO BE REMOVED IN IT'S ENTIRETY. REFER TO MECHANICAL & ELECTRICAL. ALL FINISHES BY THE REMOVAL SHALL BE RESTORED TO EXISTING CONDITIONS.
- 3 EXISTING CONCRETE PAD TO BE REMOVED IN IT'S ENTIRETY. PATHWAY AND SOD TO BE PATCHED, REPAIRED AND MAKE GOOD ALL AFFECTED SURFACES FOR NEW WORK.
- 4A EXISTING EXTERIOR WALL TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 4B EXISTING WINDOW TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 5 REMOVE TOP WINDOW SECTION TO ACCOMMODATE NEW DUCT PENETRATION
- 6 EXISTING DOOR AND FRAME TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.

DEMOLITION LEGEND

- EXISTING WALL, PARTITION OR COLUMN
- DENOTES DEMOLITION OF BUILDING ELEMENT
- EXISTING DOOR, FRAME AND TRIM TO REMAIN
- EXISTING DUST COLLECTOR UNIT AND CONCRETE PAD TO BE REMOVED.

FLOOR PLAN NOTATION

- ROOM NAME  
RM #
- ROOM NAME & NUMBER
- WALL SECTION REFERENCE
- BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE
- INTERIOR ELEVATION REFERENCE NUMBER



1 A202 ENLARGED DEMOLITION PLAN RM. 1073  
1/4" = 1'-0"

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.

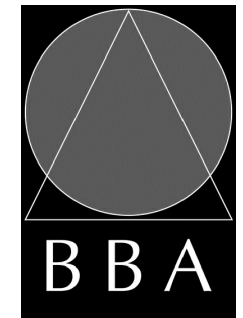
**HWDSB**

NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

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:  
**#1073 WORK SHOP  
FLOOR PLAN - DUST  
COLLECTOR : DEMO**



**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: BBA	DOC. CONTROL: DATE:
DRAWN BY: KW/JJA	% COMPLETE:
CHECKED BY:	INITIAL:

DATE:  
DEC. 06, 2024  
SCALE:  
1/4" = 1'-0"  
FILE:

PROJECT NO:  
**24141.1**  
DRAWING NO:  
**A202**



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 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 17, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

NO.	REVISIONS	DATE	BY

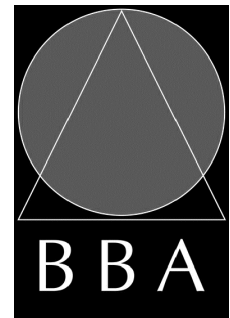
PROJECT:

**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**#1073 WORK SHOP  
FLOOR PLAN - DUST  
COLLECTOR : RENO**



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: BBA	DOC. CONTROL: DATE:
DRAWN BY: KW / JJA	% COMPLETE:
CHECKED BY:	INITIAL:

DATE: DEC. 06, 2024
SCALE: 1/4" = 1'-0"
FILE:

PROJECT NO:  
**24141.1**

DRAWING NO:  
**A203**

### TYPICAL DEMOLITION NOTES

- SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
- ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
- PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF.
- COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
- ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
- NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
- PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
- MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
- DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
- MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
- REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
- REMOVAL ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
- CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
- DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
- CONSTRUCTION AREA TO BE SECURED AT ALL TIMES.
- WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED.
- REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.
- COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.
- CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.

### DEMOLITION NOTES

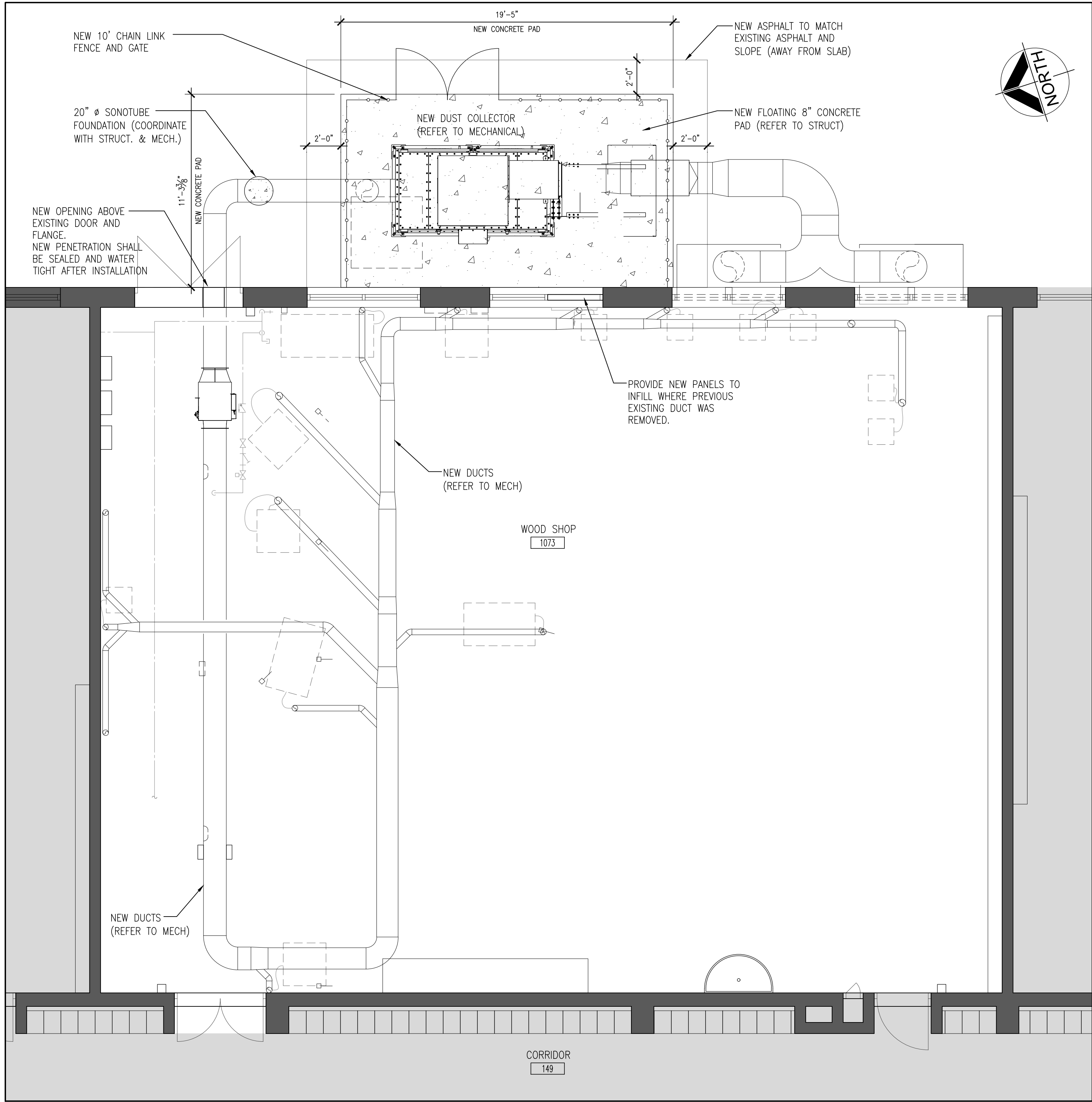
- EXISTING CHAINLINK FENCE AND GATE TO BE REMOVED.
- EXISTING MECHANICAL DUST COLLECTOR AND DUCT WORK TO BE REMOVED IN IT'S ENTIRETY. REFER TO MECHANICAL & ELECTRICAL. ALL FINISHES BY THE REMOVAL SHALL BE RESTORED TO EXISTING CONDITIONS.
- EXISTING CONCRETE PAD TO BE REMOVED IN IT'S ENTIRETY. PATHWAY AND SOD TO BE PATCHED, REPAIRED AND MAKE GOOD ALL AFFECTED SURFACES FOR NEW WORK.
- EXISTING EXTERIOR WALL TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- EXISTING WINDOW TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- REMOVE TOP WINDOW SECTION TO ACCOMMODATE NEW DUCT PENETRATION
- EXISTING DOOR AND FRAME TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.

### DEMOLITION LEGEND

- EXISTING WALL, PARTITION OR COLUMN
- DENOTES DEMOLITION OF BUILDING ELEMENT
- EXISTING DOOR, FRAME AND TRIM TO REMAIN
- EXISTING DUST COLLECTOR UNIT AND CONCRETE PAD TO BE REMOVED.

### FLOOR PLAN NOTATION

- ROOM NAME  
RM #
- ROOM NAME & NUMBER
- WALL SECTION REFERENCE
- BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE
- INTERIOR ELEVATION REFERENCE NUMBER



**1**  
**A203**

**ENLARGED NEW PLAN RM. 1073**

1/4" = 1'-0"



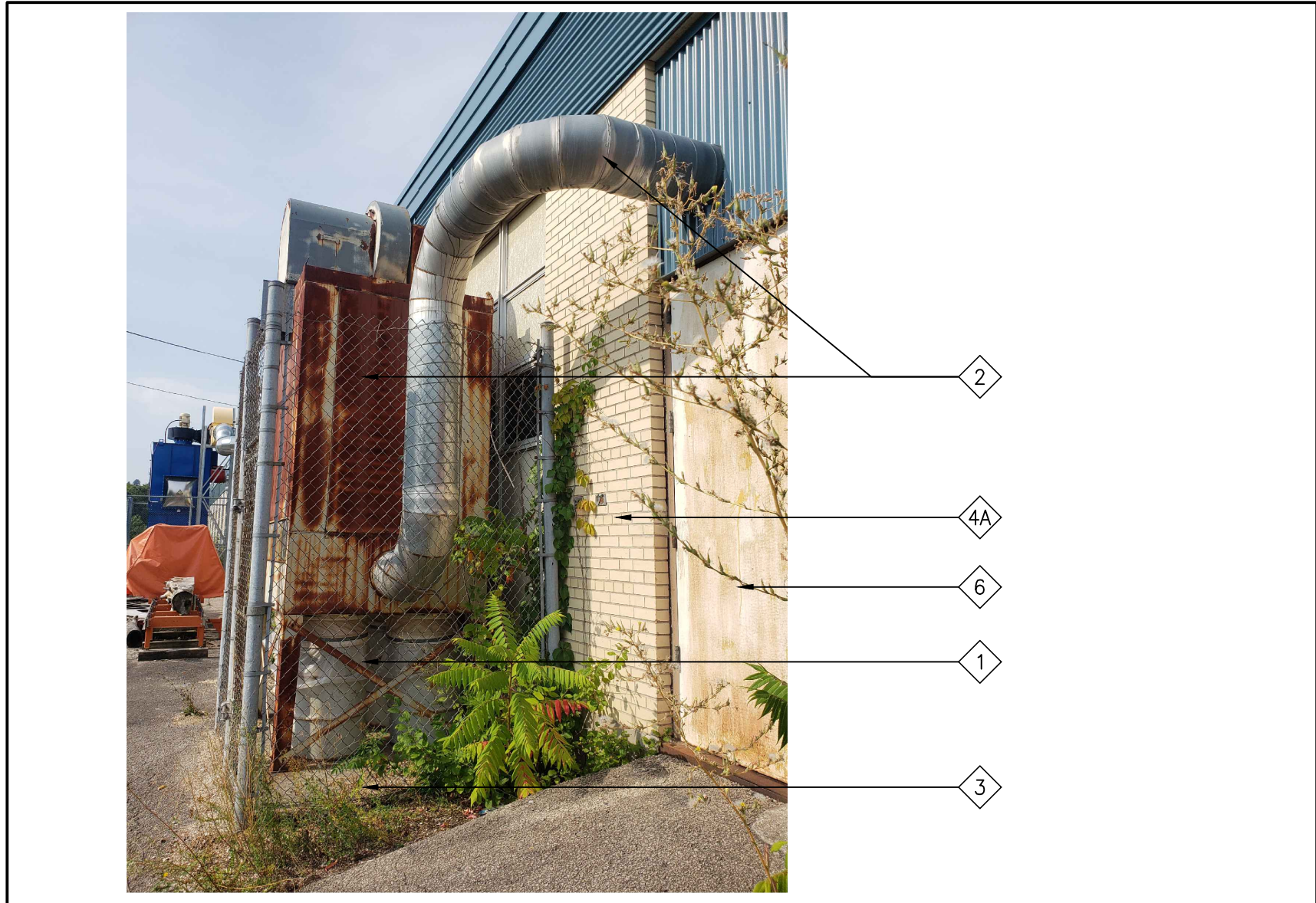


PHOTO-EL3

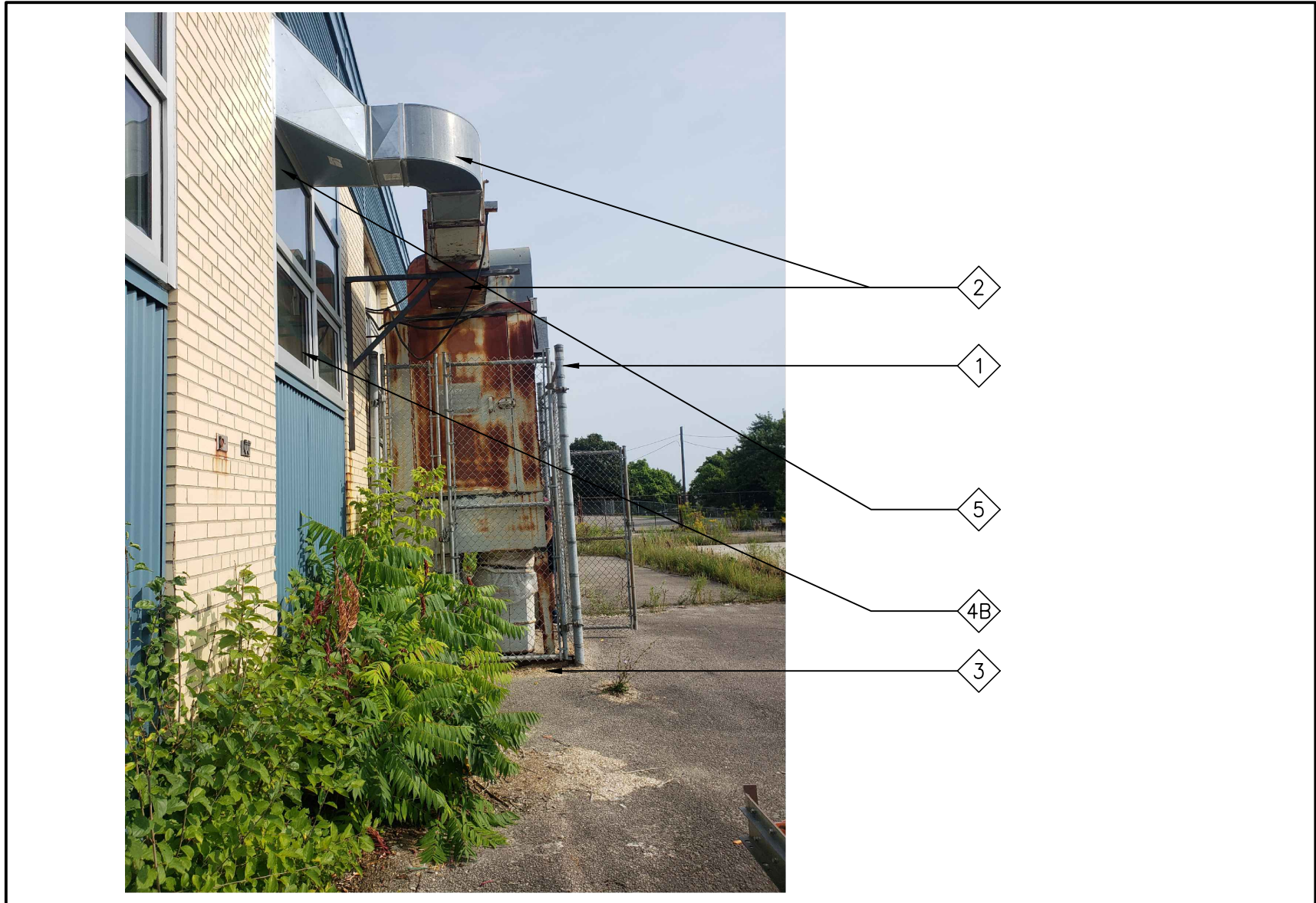


PHOTO-EL2



PHOTO-EL1

### TYPICAL DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
6. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
7. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
8. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
9. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
10. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
11. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
12. REMOVAL ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
13. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
14. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
15. DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
17. CONSTRUCTION AREA TO BE SECURED AT ALL TIMES.
18. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED.
19. REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.
20. COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.
21. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.

### DEMOLITION NOTES

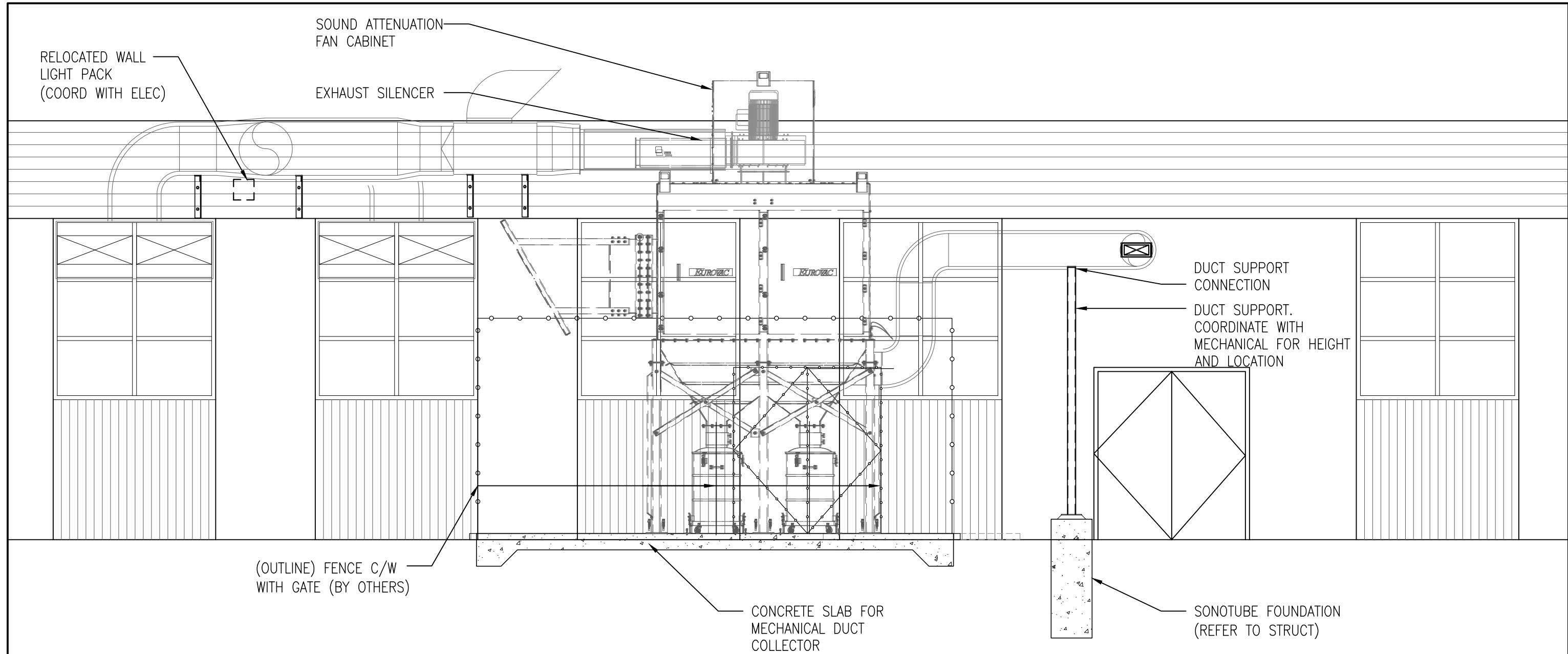
- 1 EXISTING CHAINLINK FENCE AND GATE TO BE REMOVED.
- 2 EXISTING MECHANICAL DUST COLLECTOR AND DUCT WORK TO BE REMOVED IN ITS ENTIRETY. REFER TO MECHANICAL & ELECTRICAL. ALL FINISHES BY THE REMOVAL SHALL BE RESTORED TO EXISTING CONDITIONS.
- 3 EXISTING CONCRETE PAD TO BE REMOVED IN ITS ENTIRETY. PATHWAY AND SOD TO BE PATCHED, REPAIRED AND MAKE GOOD ALL AFFECTED SURFACES FOR NEW WORK.
- 4A EXISTING EXTERIOR WALL TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 4B EXISTING WINDOW TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 5 REMOVE TOP WINDOW SECTION TO ACCOMMODATE NEW DUCT PENETRATION
- 6 EXISTING DOOR AND FRAME TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.

### DEMOLITION LEGEND

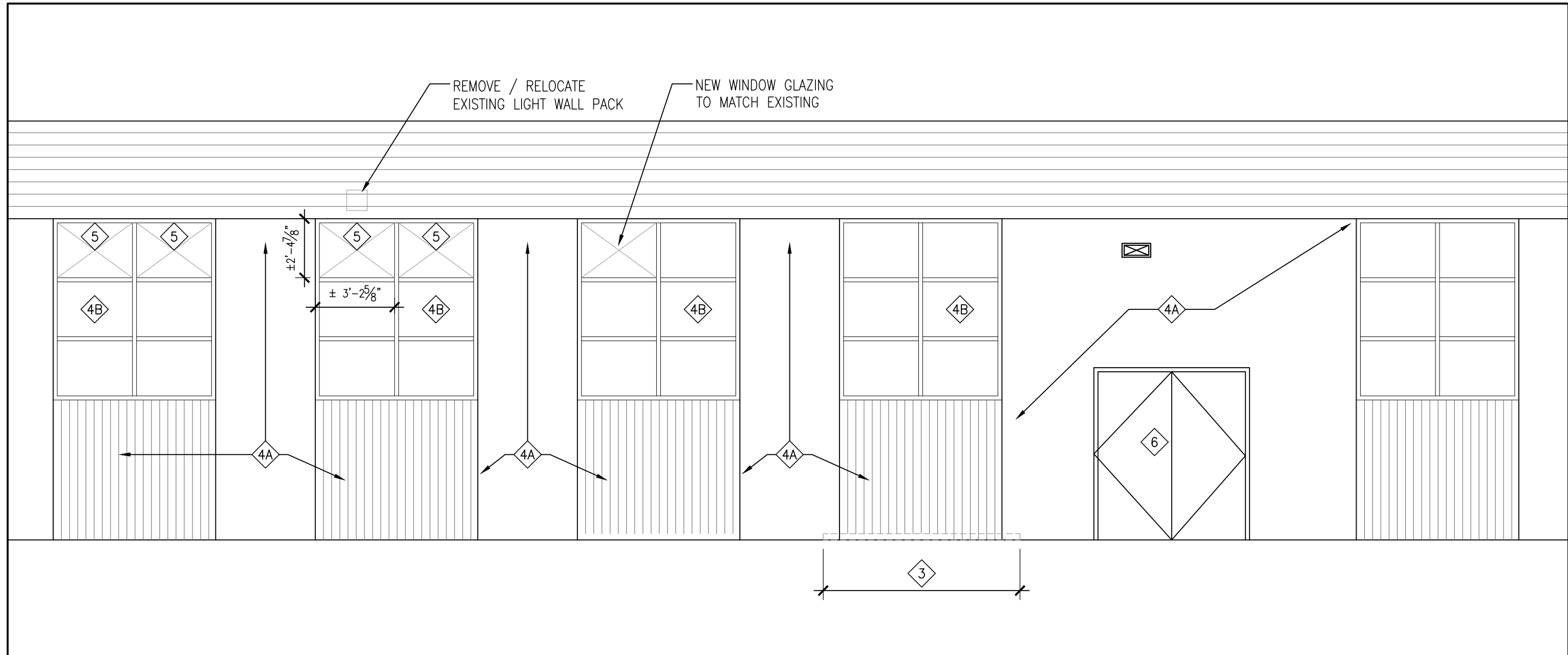
- EXISTING WALL, PARTITION OR COLUMN
- DENOTES DEMOLITION OF BUILDING ELEMENT
- EXISTING DOOR, FRAME AND TRIM TO REMAIN
- EXISTING DUST COLLECTOR UNIT AND CONCRETE PAD TO BE REMOVED.

### FLOOR PLAN NOTATION

- ROOM NAME  
RM #
- 1 A200 WALL SECTION REFERENCE
- 1 A200 BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE
- D 1 A901 INTERIOR ELEVATION REFERENCE NUMBER



2 PART EAST ELEVATION - RENO  
1/4" = 1'-0"



1 PART EAST ELEVATION - DEMO  
1/4" = 1'-0"

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 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

NO.	REVISIONS	DATE	BY

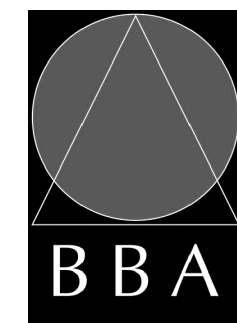
PROJECT:

**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**#1073 WORK SHOP  
ELEVATION - DUST  
COLLECTOR**



**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: BBA	DOC CONTROL: DATE:
DRAWN BY: KW	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: DEC. 06, 2024	SCALE: 3/16" = 1'-0"
FILE:	

PROJECT NO:  
**24141.1**

DRAWING NO:  
**A301**



GENERAL

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION AND THE OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS.
2. CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
3. SITE VERIFY ALL DIMENSIONS AND LEVELS.
4. KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
5. THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL BE USED.
6. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.
7. CONTRACTOR SHALL REMOVE ALL LOOSE/UNSUITABLE FILL MATERIAL AND DISPOSE TO AN APPROPRIATE LANDFILL AS NECESSARY TO ACCOMMODATE THE NEW PAD AND SUB-BASE PROFILE.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1 AND CAN/CSA-A23.3 WITH THE FOLLOWING PROVISION:

LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
EXTERIOR SLAB ON GRADE	32 MPa	80± 30	C1 (HIGH EARLY)

2. NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
3. DURING WINTER WEATHER BELOW 5°C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
4. STRUCTURAL GROUT SHALL BE NON-SHRINK, NON-METALLIC M-BED STANDARD PREMIX BY Sika OR APPROVED EQUAL.

CONCRETE REINFORCEMENT

1. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
SLABS	25mm(1") TOP BARS 25mm(1") BOTTOM BARS
SURFACE IN CONTACT WITH GROUND	75mm(3")

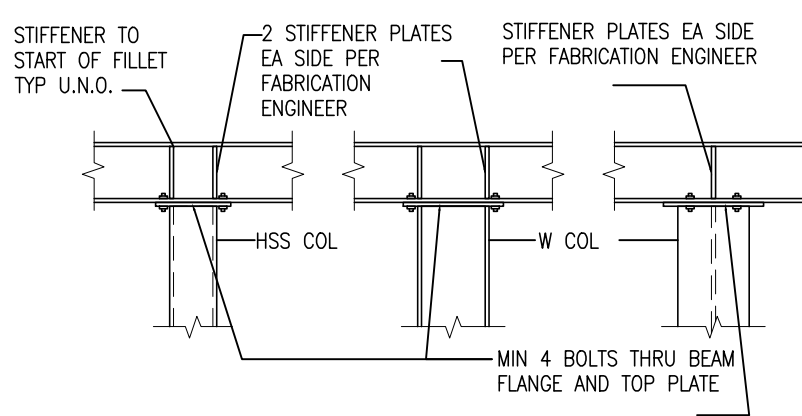
2. DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
3. REINFORCING BAR SPLICES FOR DEFORMED BARS SHALL BE A CLASS 'B' TENSION LAP UNLESS NOTED.
4. ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
5. ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS.
6. PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA23.1 AND CSA23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE; ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
7. CHAIRS SHALL BE SPACED AT 1200mm (4'-0") O.C. MAXIMUM.

FLOATING CONCRETE SLAB FOUNDATION

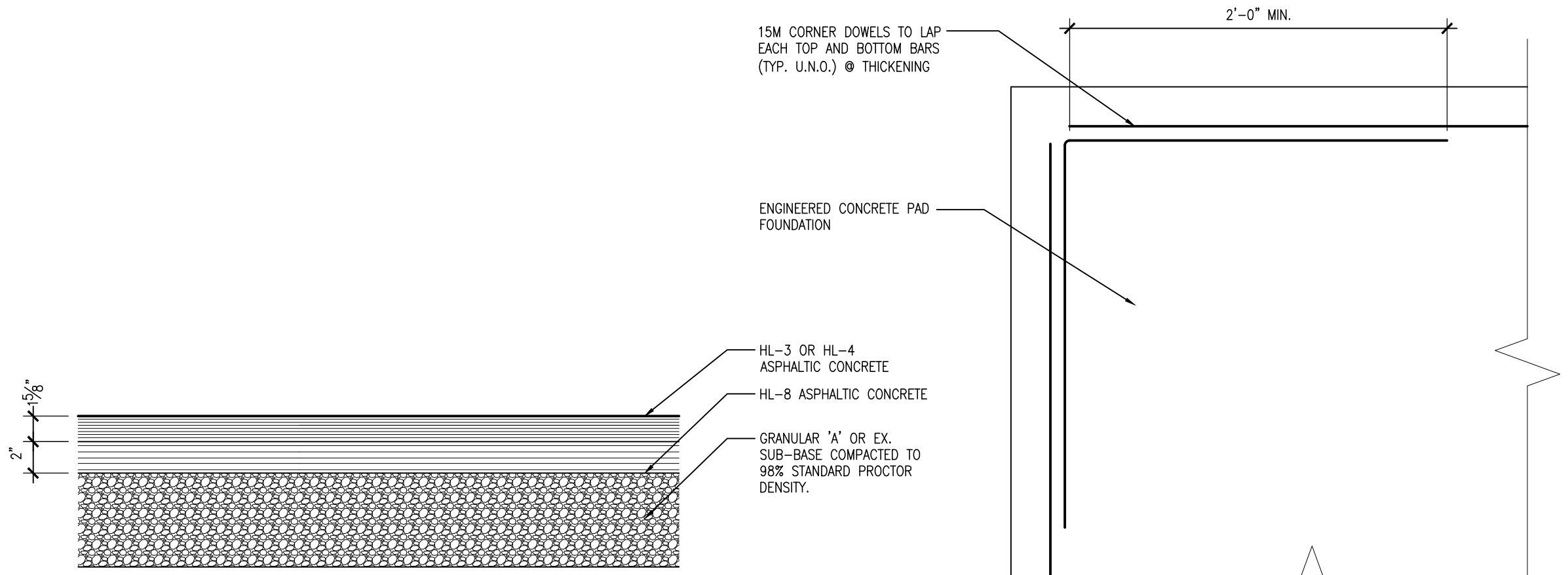
1. THE FOUNDATIONS FOR THIS SLAB IS NOT BELOW THE REQUIRED FROST DEPTH FOR THIS GEOGRAPHIC LOCATION. MOVEMENT DUE TO FROST ACTION BELOW THIS SLAB COULD OCCUR. BARRY BRYAN ASSOCIATES ARE NOT CERTIFYING THAT HEAVING AND/OR SETTLEMENT WILL NOT OCCUR. THE OWNER MUST ACCEPT THE POSSIBILITY THAT MOVEMENT AND/OR SERVICE ABILITY CRACKS WILL OCCUR.
2. METHODS FOR REDUCING FROST ACTION INCLUDE GOOD SURFACE DRAINAGE AWAY FROM THE SLAB AND THE SUB-GRADE MATERIAL MUST BE FREE DRAINING TO KEEP UNDERLYING SOILS DRY.
3. REMOVE ALL EXISTING ASPHALT AND ENGINEERED FILL TO ACCOMMODATE THE NEW CRUSH STONE FILL LAYER. PLACE THE NEW CLEAR CRUSH STONE ON NEW GRANULAR "B" FILL MATERIAL COMPACTED TO 98% SPMD.
4. PROVIDE A WOVEN GEOTEXTILE LAYER BETWEEN THE CLEAR CRUSH STONE AND EXISTING COMPACTED FILL TO REMAIN.
5. IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER BE CONSULTED TO REVIEW THE EXISTING SUBSURFACE MATERIALS AND CONFIRM METHODS FOR REDUCING RISK ASSOCIATED WITH FROST MOVEMENT. THIS MAY INCLUDE THE ADDITION OF FREE DRAINING MATERIAL SUCH AS CLEAR STONE, INSTALLATION OF SUBDRAIN SYSTEM AND/OR INSULATION TO BE USED AS FROST PROTECTION.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL HSS AND W SECTIONS TO BE G40.21M-350W CLASS C. ALL OTHERS TO BE G40.21M-300W.
2. DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE UN-FACTORED FORCES UNLESS NOTED OTHERWISE.
3. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD SHEAR CONNECTIONS IN COMPLIANCE WITH CISC, UNLESS NOTED OTHERWISE.
4. PROVIDE SHOP DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S ENGINEER. DRAWINGS SHALL BE SIGNED AND SEALED BY THAT ENGINEER.
5. FABRICATOR'S ENGINEER MUST BE LICENSED IN THE PROVINCE OF ONTARIO.
6. ALL ERECTION BOLTS SHALL BE ASTM GRADE A325 MINIMUM, AND SHALL BE DESIGNED BY STEEL FABRICATOR'S ENGINEER FOR TRANSFER OF ALL LOADS.
7. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTION PIECE AND DESIGNED AS BEARING CONNECTIONS U.N.O.
8. UNLESS NOTED OTHERWISE, WHERE BEAMS FRAME OVER COLUMNS, PROVIDE FULL HEIGHT, FULL WIDTH STIFFENER PLATES ON EACH SIDE OVER COLUMN AS SHOWN BELOW:

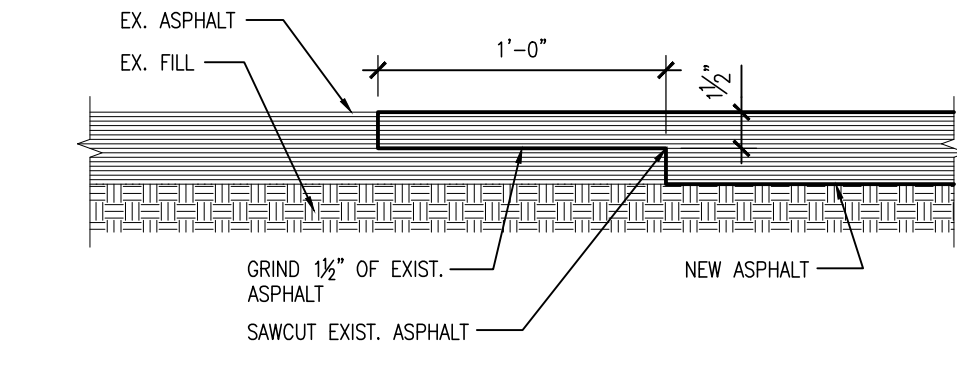


9. FABRICATOR'S ENGINEER SHALL DESIGN TOP PLATES AND THEIR CONNECTIONS TO FULLY TRANSFER VERTICAL AND HORIZONTAL LOADS AS WELL AS MOMENTS WHEN REQUIRED PER CISC STANDARDS.
10. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CSA S16.1.
11. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER CSA W47.
12. REMOVE PAINT FILM FROM ALL STEEL SURFACES TO BE WELDED. SPOT PRIME AS REQUIRED.
13. ALL WELDED CONNECTIONS SHALL BE WITH CSA W48 SERIES ELECTRODES.
14. PROVIDE DRAINAGE HOLES TO ARCHITECT'S APPROVAL IN ALL EXPOSED EXTERIOR HSS FRAMING.
15. PROVIDE CAP PLATES ON ALL HSS FRAMING MEMBERS UNLESS NOTED OTHERWISE.
16. DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
17. WHERE A STRUCTURAL STEEL SHAPE SHOWN ON THE DRAWINGS IS UNAVAILABLE, A SHAPE OF EQUAL OR GREATER SECTION PROPERTIES AND STRUCTURAL CAPACITY SHALL BE SUBSTITUTED, UPON APPROVAL BY OWNER AND CONSULTANT AT NO EXTRA COST.
18. ALL EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.

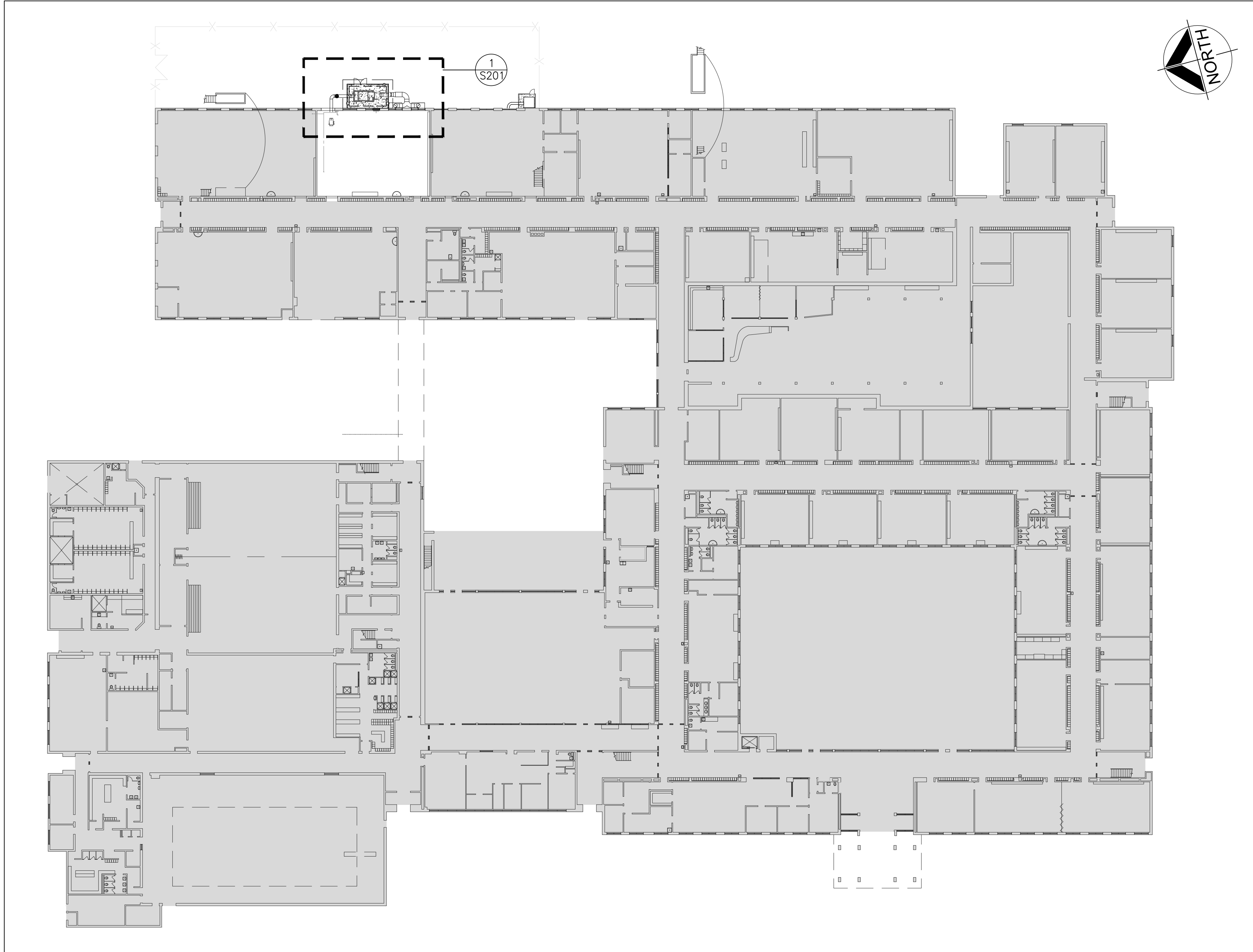


4 S101 LIGHT DUTY ASPHALT  
1 1/2" = 1'-0"

3 S101 CORNER LAP BAR DETAIL  
1 1/2" = 1'-0"



2 S101 TYPICAL ASPHALT JOINT REPAIR DETAIL  
1 1/2" = 1'-0"



1 S101 OVERALL KEY PLAN  
1/32" = 1'-0"

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.

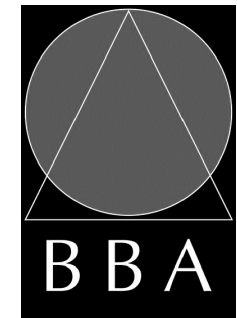
**HWDSB**

NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

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:  
**GENERAL NOTES,  
OVERALL KEY PLAN AND  
TYPICAL DETAILS**



**BARRY BRYAN  
ASSOCIATES**

Architects  
Engineers  
Project Managers

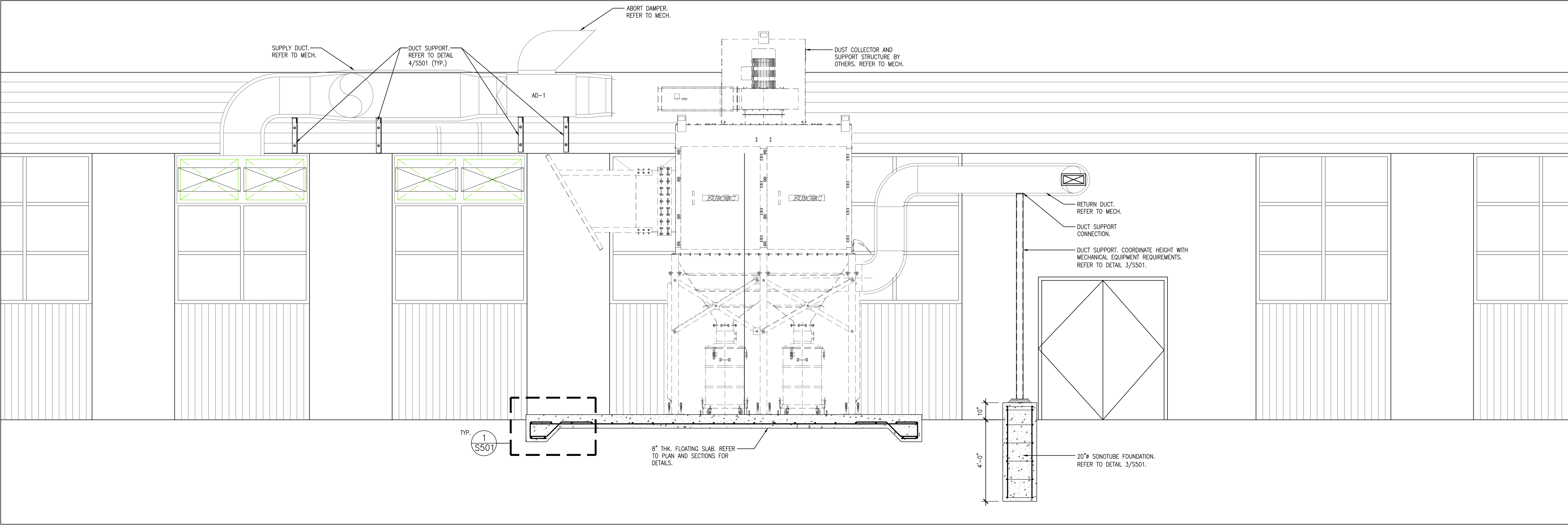
250 Water Street  
Suite 201  
Whitby Ontario  
L1N 0G5  
Tel: (905) 666-5252  
Fax: (905) 666-5256  
e-mail: bbai@bba-archeng.com

DESIGN BY: BBA	DOC. CONTROL: DATE:
DRAWN BY: JJA/LS	% COMPLETE:
CHECKED BY:	INITIAL:

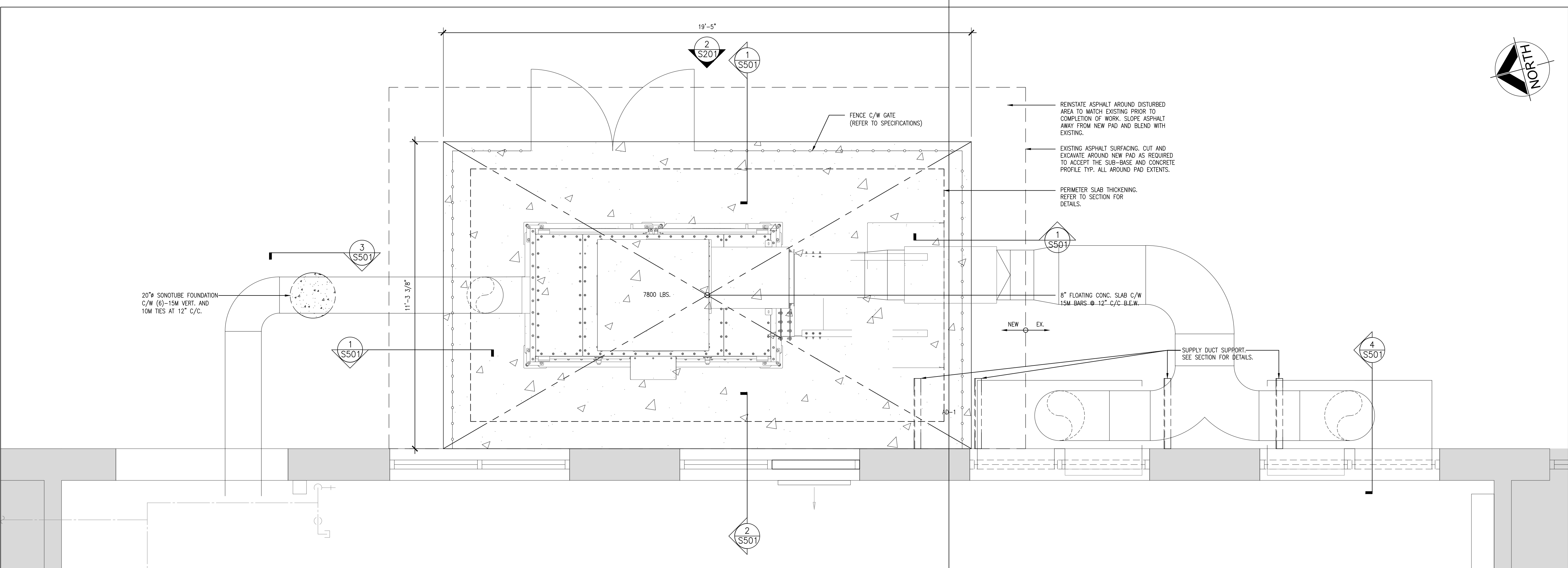
DATE: DEC. 06, 2024
SCALE: AS NOTED
FILE:

PROJECT NO: <b>24141.1</b>	DRAWING NO: <b>S101</b>
-------------------------------	----------------------------





**2**  
**S201** PART EAST ELEVATION  
3/8" = 1'-0"



**1**  
**S201** PART MECHANICAL EQUIPMENT SUPPORT PLAN  
1/2" = 1'-0"

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 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

NO.	REVISIONS	DATE	BY

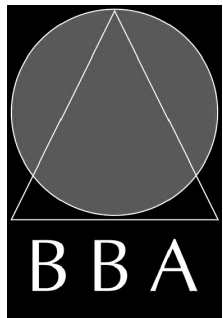
PROJECT:

**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**PART MECHANICAL EQUIP.  
SUPPORT PLAN AND  
PART EAST ELEVATION**



**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

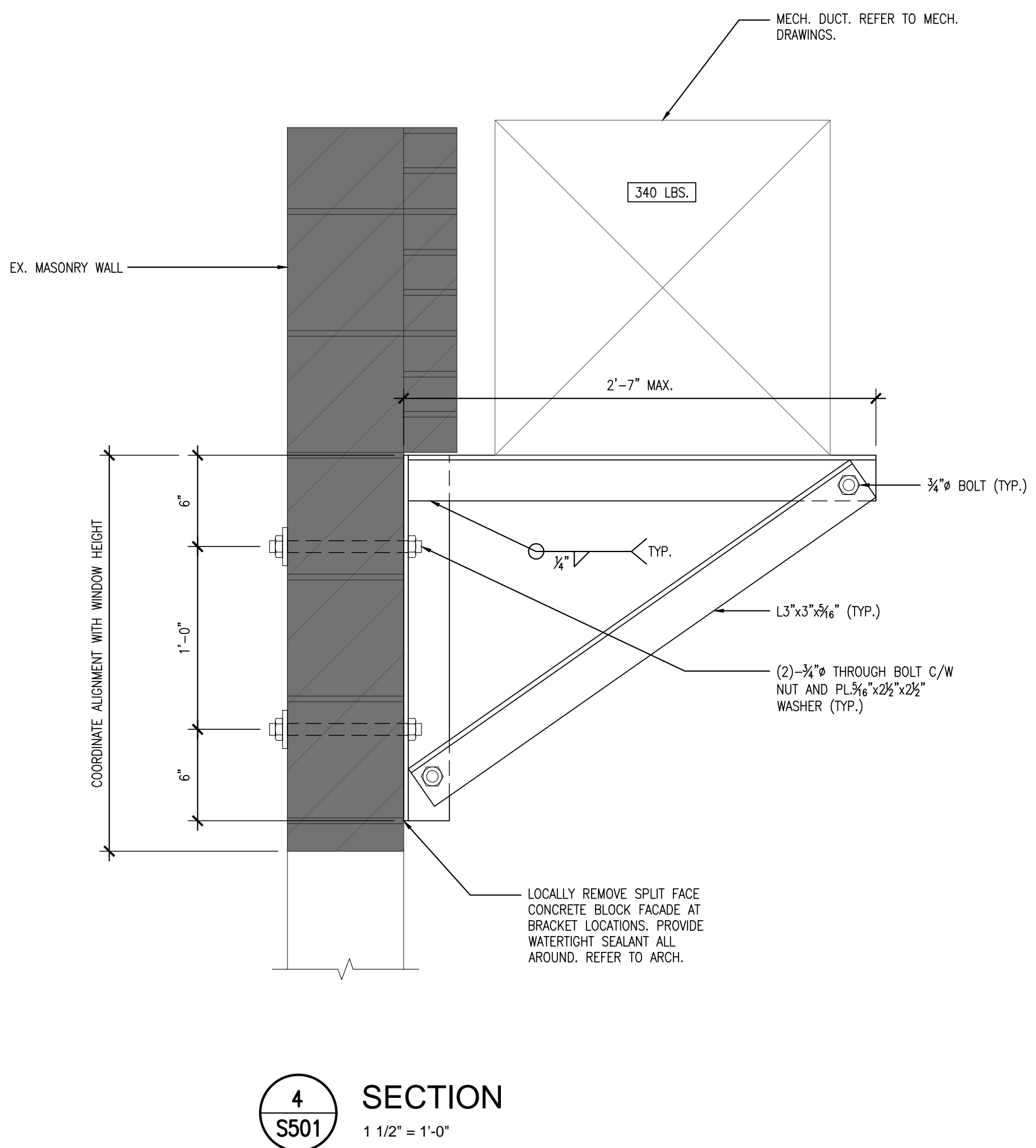
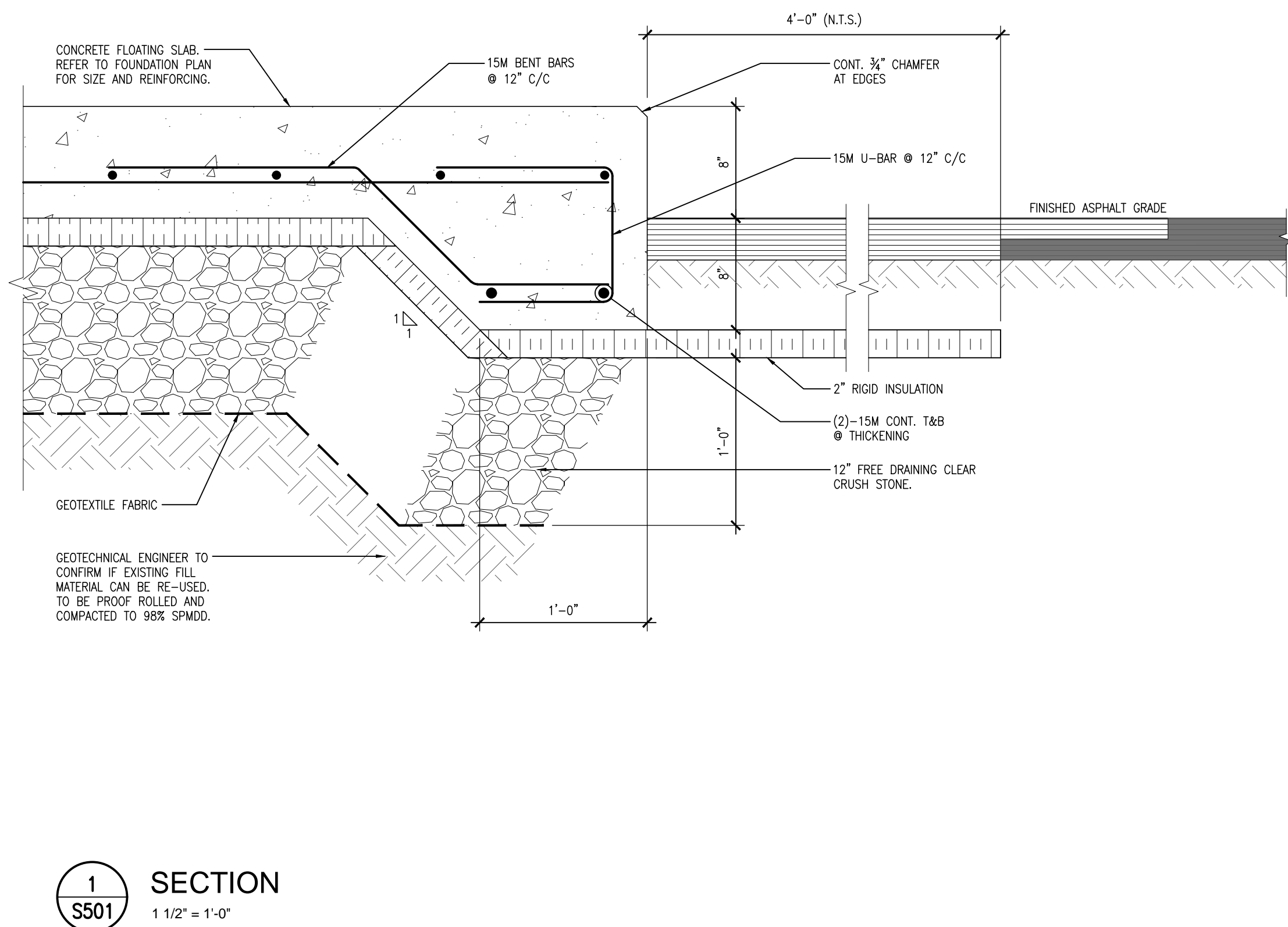
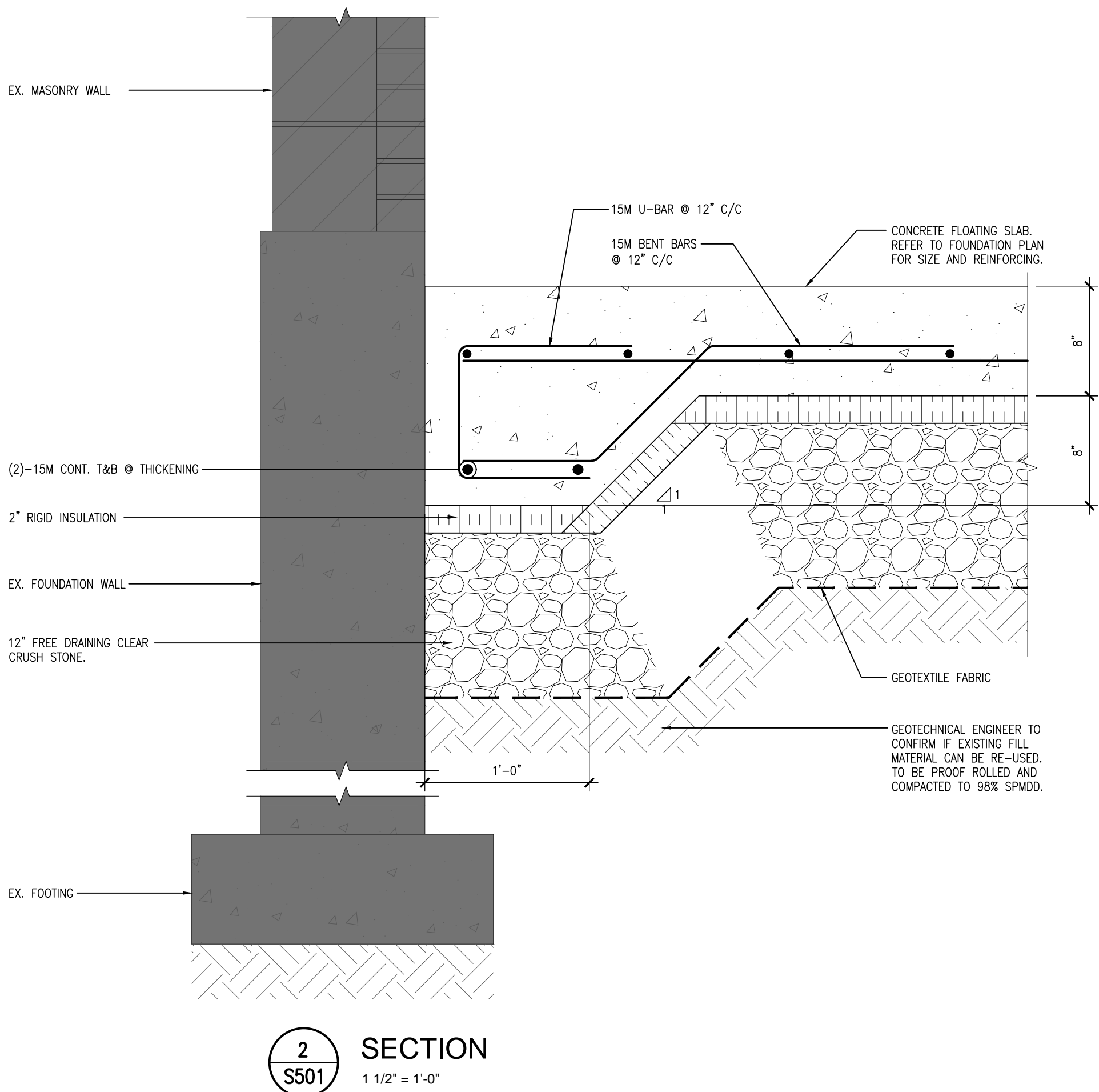
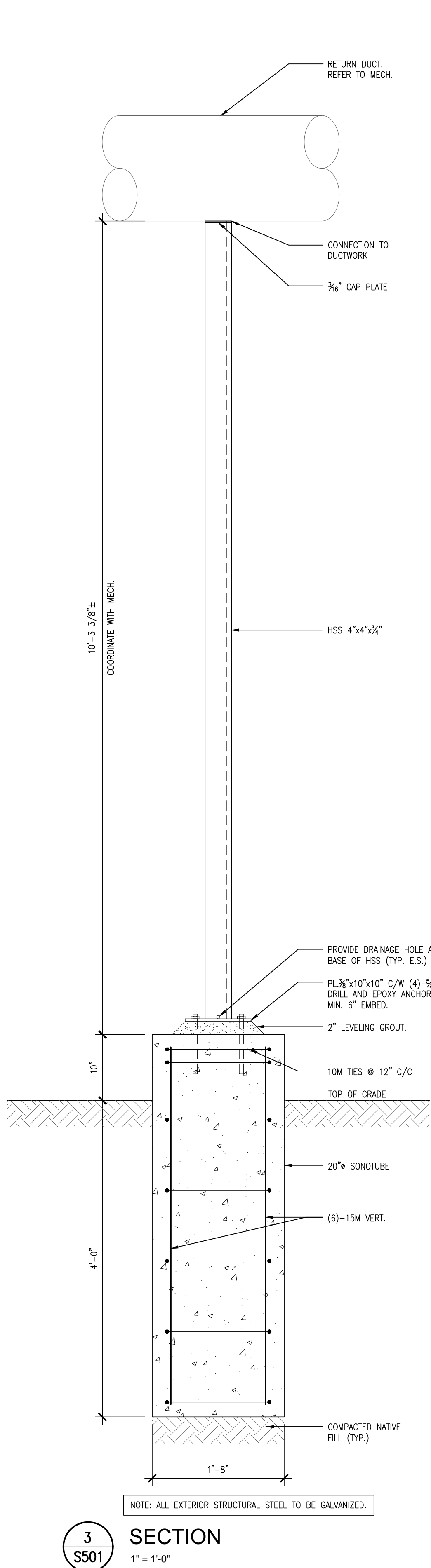
DESIGN BY: BBA	DOC. CONTROL: DATE:
DRAWN BY: LS	% COMPLETE:
CHECKED BY:	INITIAL:

DATE: JANUARY 2025
SCALE: AS NOTED
FILE:

PROJECT NO:  
**24141.1**

DRAWING NO:  
**S201**





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 60% REVIEW	DEC. 06, 2024	BBA
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA
3	ISSUED FOR TENDER	APR. 28, 2025	BBA

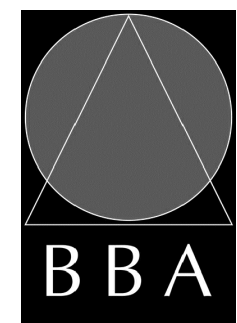
NO.	REVISIONS	DATE	BY

PROJECT:

**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:  
**SECTIONS**



**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: BBA	DOC. CONTROL: DATE:
DRAWN BY: LS	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: JANUARY 2025	SCALE: AS NOTED
FILE:	

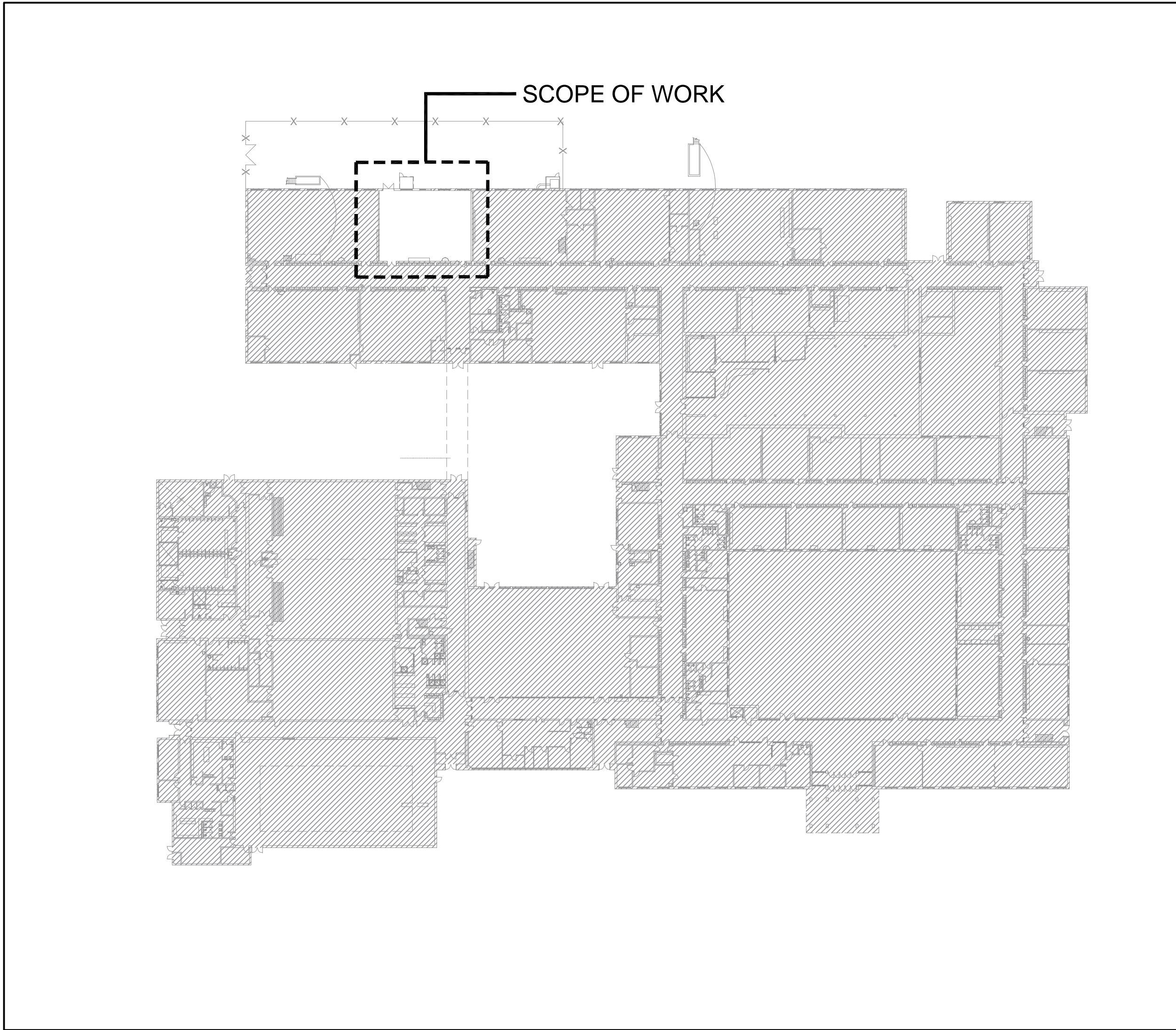
PROJECT NO:  
**24141.1**

DRAWING NO:  
**S501**



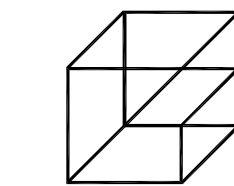
DUST COLLECTOR REPLACEMENT  
ORCHARD PARK SECONDARY SCHOOL  
HAMILTON, ON

MECHANICAL DRAWINGS



1  
M-0  
KEYPLAN  
NTS

DRAWING LIST	
DWG. NO.	DRAWING NAME
M-0	TITLE SHEET
M-1.1	MECHANICAL LEGEND
M-1.2	MECHANICAL SCHEDULES AND DETAILS
M-2.1	DUST COLLECTION SYSTEM – DEMOLITION
M-2.2	DUST COLLECTION SYSTEM – NEW
M-2.3	DUCT COLLECTION SYSTEM – EAST ELEVATION



Giallonardo —  
Engineering Inc.  
228-4558 Highway 7  
Woodbridge, ON  
L4L 4Y7  
(905) 265-1052  
info@gi.al.lonardoeng.com  
www.gi.al.lonardoeng.com

This drawing is the property of  
GIALONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical  
and all other consultant's drawings prior to proceeding with the work. Do not scale  
the drawings.

The contractor is to verify and accept responsibility for all dimensions and  
conditions on site and must notify GIALONARDO ENGINEERING INC. of any  
variations from the drawings.



NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPMENT PURCHASE	DEC. 27 2024	JH
3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

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:

**TITLE SHEET**



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

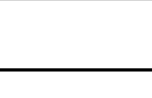
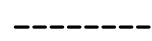































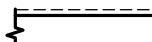
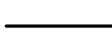
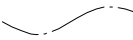



































DESIGN BY: <b>SW</b>	DOC CONTROL: DATE:
DRAWN BY: <b>RC</b>	% COMPLETE:
CHECKED BY: <b>JH</b>	INITIAL:
DATE: <b>SEPTEMBER 2024</b>	
SCALE: <b>AS SHOWN</b>	
FILE:	

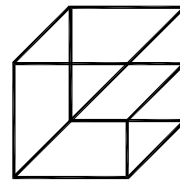
PROJECT NO:  
**24154A**

DRAWING NO:  
**M-0**



HVAC LEGEND	
	EXISTING DUCTWORK/EQUIPMENT
	EXISTING DUCTWORK/EQUIPMENT TO BE REMOVED
	NEW RIGID DUCTWORK
	EXISTING FLEXIBLE DUCTWORK
	NEW FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK UP
	SUPPLY AIR DUCTWORK DOWN
	RETURN AIR DUCTWORK UP
	RETURN AIR DUCTWORK DOWN
S/A	'SUPPLY AIR'
R/A	'RETURN AIR'
F/D	'FIRE DAMPER'
 BD	'BALANCING DAMPER'
B/D	'BACKDRAFT DAMPER'
 M/D	'MOTORIZED DAMPER'
	SQUARE SUPPLY AIR DIFFUSER
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	SLOT DIFFUSER
	THERMOSTAT
	HUMIDISTAT
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE DETECTOR
	ZONE SENSOR
	WALL SWITCH
A-6" → 150CFM	DIFF TYPE/SIZE AIR CAPACITY
TYP.	'TYPICAL'
 X-XX	EQUIPMENT TAG
CTE	'CONNECT TO EXISTING'
	FAN-POWERED TERMINAL UNIT
	VAV TERMINAL UNIT
	CABINET EXHAUST FAN
	INLINE EXHAUST FAN
	ELECTRIC DUCT HEATER
	CIRCULAR EXHAUST FAN
	BASEBOARD HEATER
	FORCE FLOW HEATER
	UNIT HEATER
	DUCTWORK WITH ACOUSTIC OR THERMAL INSULATION (SEE SPECS.)
	DUCTWORK WITH ACOUSTIC INSULATION
	DUCTWORK WITH THERMAL INSULATION
	CONTINUATION OF DUCTWORK/PIPING
	EXISTING CONTROL WIRING
	NEW CONTROL WIRING
	SPIN-ON DUCT CONNECTION WITH BALANCING DAMPER
	DRAWING NOTE
	ROUND SUPPLY AIR DIFFUSER
	LOUVERED FACE SUPPLY/RETURN GRILLE
CAP 	CAP ON DUCTWORK
	BRANCH ON DUCTWORK

PIPING LEGEND	
—— EX.HWS ——	EXISTING HEATING WATER SUPPLY
-- -- EX.HWR -- --	EXISTING HEATING WATER RETURN
—— HWS ——	HEATING WATER SUPPLY
-- -- HWR -- --	HEATING WATER RETURN
—— EX.CHWS ——	EXISTING CHILLED WATER SUPPLY
-- -- EX.CHWR -- --	EXISTING CHILLED WATER RETURN
—— CHWS ——	CHILLED WATER SUPPLY
-- -- CHWR -- --	CHILLED WATER RETURN
—— EX.CWS ——	EXISTING CONDENSER WATER SUPPLY
-- -- EX.CWR ——	EXISTING CONDENSER WATER RETURN
—— CWS ——	CONDENSER WATER SUPPLY
-- -- CWR ——	CONDENSER WATER RETURN
—— REFL ——	REFRIGERANT LIQUID LINE
-- -- REFS -- --	REFRIGERANT SUCTION LINE
	3—PORT CONTROL VALVE
	2—WAY CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	CIRCUIT BALANCING VALVE
	BALL VALVE
	SAFETY RELIEF VALVE
	STRAINER
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
N.O.	'NORMALLY OPEN'
N.C.	'NORMALLY CLOSED'
	PRESSURE GAUGE
	THERMOMETER
	AQUASTAT
	PRESSURE REDUCING VALVE
VB	VACUUM BREAKER
	BACKFLOW PREVENTER
FS 	FLOW SWITCH
AAV 	AUTOMATIC AIR VENT
LWCO	LOW WATER CUT—OFF
	PLUG/COCK VALVE
	BUTTERFLY VALVE
Ψ	TEST PORT
	PUMP
CAP 	CAP ON PIPING
	DRAWING NOTE
	ISOLATION VALVE
HB 	HOSE BIBB

[illegible][illegible]

Giallonardo —  
Engineering Inc.

220-4550 Highway 7  
Woodbridge, ON  
L4L 4Y7  
(905)265-1052  
info@giallonardoeng.com  
www.giallonardoeng.com

This drawing is the property of  
GIALONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALONARDO ENGINEERING INC. of any variations from the drawings.

**HWDSB**

NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPMENT PURCHASE	DEC. 27 2024	JH
3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

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:

## MECHANICAL LEGEND



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: [bbs@bbs-archeng.com](mailto:bbs@bbs-archeng.com)

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



DESIGN BY: <b>SW</b>	DOC CONTROL: DATE:
DRAWN BY: <b>RC</b>	% COMPLETE:
CHECKED BY: <b>JH</b>	INITIAL:

DATE: **SEPTEMBER 2024**  
SCALE: **AS SHOWN**

FILE:

PROJECT NO.

24154A

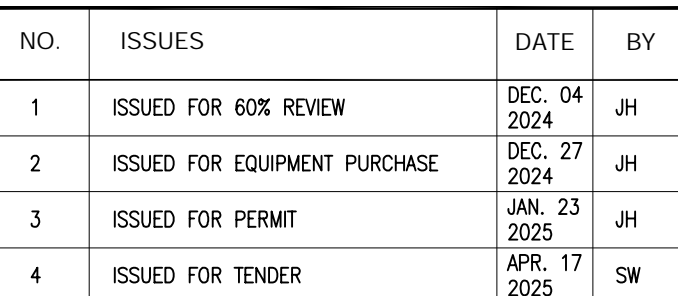
DRAWING NO:

## M-1.1



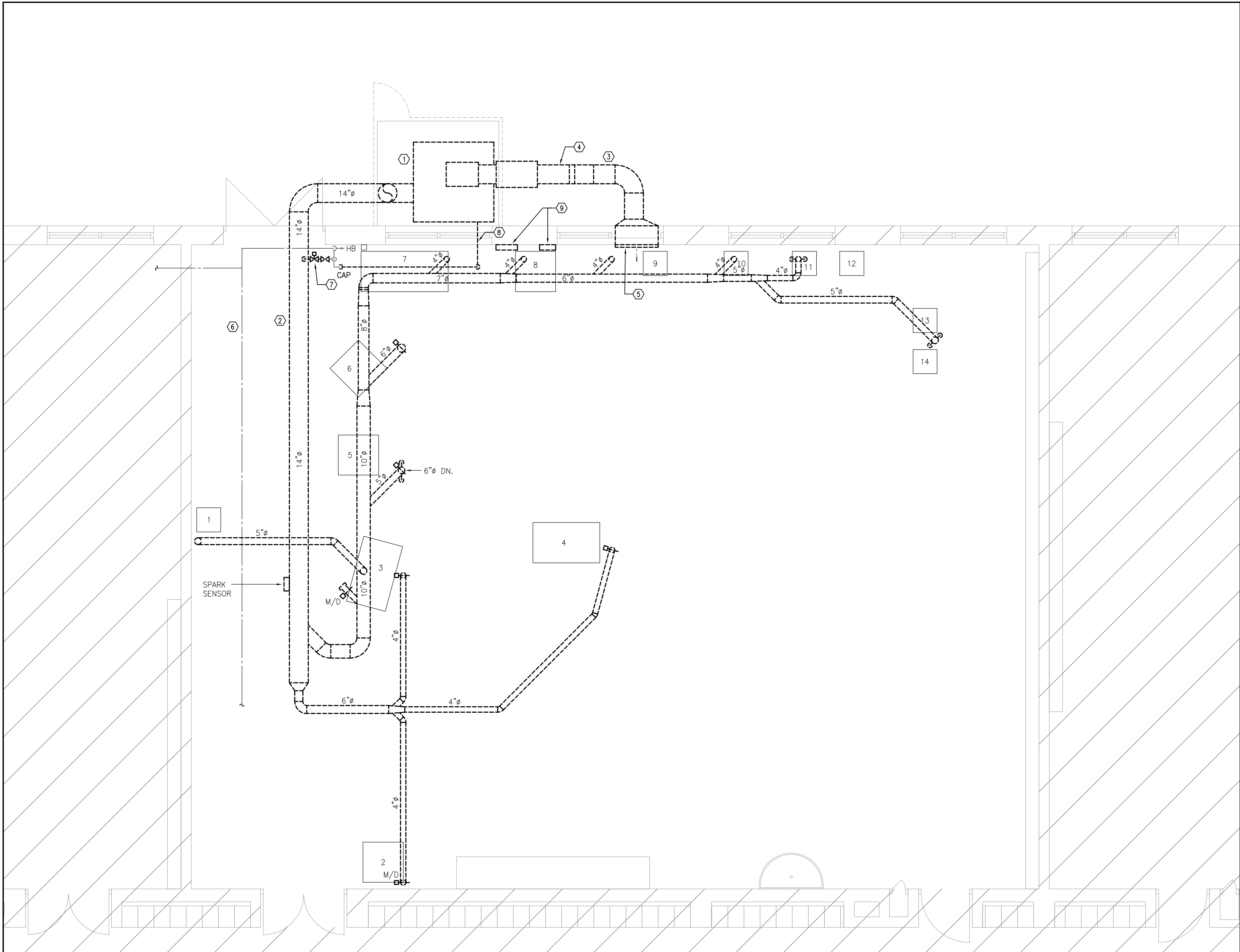


DIFFUSER SCHEDULE			
TAG	MAKE/MODEL	FINISH	REMARKS
A	EH PRICE MODEL 520 LOUVERED FACE S/A GRILLE	—	STEEL CONSTRUCTION, 3/4" BLADE SPACING, DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION.
NOTES: 1. SIZE ALL GRILLES, DIFFUSERS, ETC. AS PER MECHANICAL DRAWINGS. 3. CONFIRM ALL FINISHES WITH ARCHITECT/INTERIOR DESIGNER.			



PROJECT NO: **24154A**





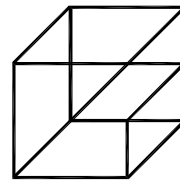
1  
M-2.1  
DUST COLLECTION SYSTEM - DEMOLITION  
1/4" = 1'-0"

MECHANICAL DRAWING NOTES

- EXISTING DUST COLLECTOR AND ALL ASSOCIATED CONTROLS, SUPPORTS, ETC. TO BE REMOVED AND DISPOSED OF.
- EXISTING EXHAUST DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, DROPS, ETC. TO BE REMOVED AND DISPOSED OF. RETAIN ALL EQUIPMENT FLEX CONNECTIONS FOR REINSTALLATION (TYPICAL).
- EXISTING SUPPLY DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, ETC. TO BE REMOVED AND DISPOSED OF.
- EXISTING ABORT DAMPER AND ALL ASSOCIATED CONTROLS TO BE REMOVED AND DISPOSED OF.
- EXISTING SUPPLY DIFFUSER TO BE REMOVED AND DISPOSED OF. REFER TO ARCHITECTURAL DRAWINGS FOR REINSTATEMENT OF WINDOW OPENING.
- EXISTING DCW PIPING AT HIGH LEVEL TO REMAIN.
- EXISTING SPRAY NOZZLE, SOLENOID VALVE, STRAINER AND SUPERVISED VALVE TO BE REMOVED AND DISPOSED OF. CUT DCW PIPING BACK TO WHERE SHOWN AND PREPARE FOR NEW CONNECTION.
- EXISTING DCW PIPING SERVING DUST COLLECTOR TO BE REMOVED BACK TO INTERIOR OF BUILDING. CAP WHERE SHOWN.
- EXISTING MAIN CONTROL PANEL, SPARK DETECTION PANEL AND ALL ASSOCIATED CONTROLS, WIRING, CONDUIT, ETC. TO BE REMOVED AND DISPOSED OF.

GENERAL NOTES

- THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
- THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
- THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.



Giallonardo —  
Engineering Inc.  
228-4558 Highway 7  
Woodbridge, ON  
L4L 4Y7  
(905) 265-1052  
info@gnar.doing.com  
www.giallonardoeng.com

This drawing is the property of  
GIALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.

HWDSB

NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPMENT PURCHASE	DEC. 27 2024	JH
3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

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:

**DUST COLLECTION  
SYSTEM - DEMOLITION**



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

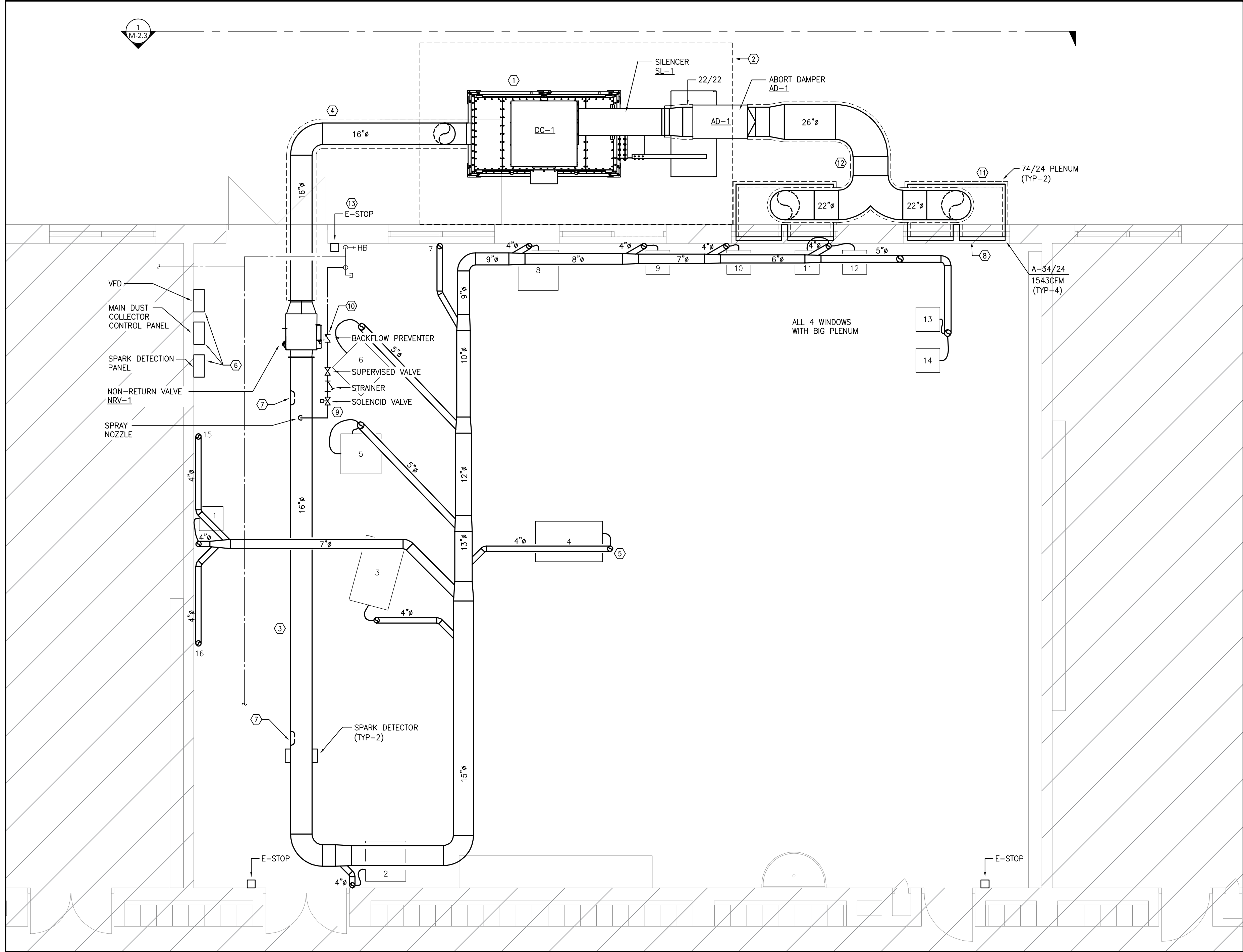


DESIGN BY: <b>SW</b>	DOC CONTROL: DATE:
DRAWN BY: <b>RC</b>	% COMPLETE:
CHECKED BY: <b>JH</b>	INITIAL:
DATE: <b>SEPTEMBER 2024</b>	
SCALE: <b>AS SHOWN</b>	
FILE:	

PROJECT NO:  
**24154A**

DRAWING NO:  
**M-2.1**





**1**  
**M-2.2**  
**DUST COLLECTION SYSTEM - NEW**  
1/4" = 1'-0"

#### MECHANICAL DRAWING NOTES

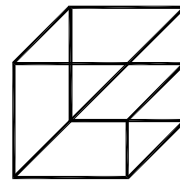
- NEW DUST COLLECTOR AS SPECIFIED C/W SILENCER (SL-1), ABORT DAMPER (AD-1), NON-RETURN VALVE (NRV-1), SPARK DETECTOR, SPRAY ASSEMBLY, MAIN CONTROL PANEL, SPARK DETECTION CONTROL PANEL, VFD, ETC. THIS EQUIPMENT IS PRE-PURCHASED BY HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ACCEPTING DELIVERY, INSTALLATION AND ASSUMING ALL MANUFACTURER WARRANTIES.
- NEW HOUSEKEEPING PAD AND FENCED ENCLOSURE, REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE GALVANIZED DUCTWORK EQUAL TO NORDEAB QUICK-FIT C/W METAL QUICK FIT CLAMPS AT INTERIOR OF BUILDING. REFER TO SPECIFICATIONS.
- PROVIDE 12 GAUGE GALVANIZED WELDED AND FLANGED DUCTWORK AT EXTERIOR OF BUILDING BETWEEN DC-1 AND NRV-1. REFER TO SPECIFICATIONS. ALL EXTERIOR DUCTWORK SHALL BE INSULATED AND JACKETED AS PER MECHANICAL SPECIFICATIONS.
- PROVIDE DUCT DROP DOWN TO EXISTING WOODWORKING EQUIPMENT. PROVIDE MANUAL SLIDE GATE AT FLEX CONNECTION MOUNTED AT 7'-8" AFF. SLIDE GATE SHALL BE C/W SCREW-PIN TO LOCK IN PLACE AFTER BALANCING. CONNECT TO EXISTING EQUIPMENT FLEXIBLE DUCTWORK. COORDINATE EXACT LOCATION OF DUCT DROP WITH EQUIPMENT LAYOUT (TYPICAL).
- PROVIDE NEW MAIN CONTROL PANEL, SPARK DETECTION PANEL AND FAN VFD. REFER TO WIRING SYSTEM SCHEMATIC DETAIL AND INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE EXPLOSION PROOF DUCT ACCESS DOOR.
- REMOVE EXISTING GLAZING PANEL FOR INSTALLATION OF SUPPLY DIFFUSER. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS. PROVIDE NEW SUPPLY DIFFUSER AS SPECIFIED C/W CAULKING AND SEALING AS REQUIRED FOR A WEATHER TIGHT INSTALLATION (TYP-2).
- INSTALL NEW SPRAY ASSEMBLY INCLUDING SUPERVISED VALVE, STRAINER, FLOW SWITCH AND SOLENOID VALVE. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE NEW BACKFLOW PREVENTER UPSTREAM OF NEW SPRAY ASSEMBLY.
- PROVIDE NEW THERMALLY INSULATED AND JACKETED S/A PLENUM C/W ACOUSTIC INSULATION CONNECTED TO NEW SUPPLY DIFFUSERS (TYP-2).
- PROVIDE NEW THERMALLY INSULATED AND JACKETED S/A DUCTWORK AS SPECIFIED (TYPICAL).
- PROVIDE NEW E-STOP AND INTERLOCK WITH NEW DUST COLLECTOR MAIN CONTROL PANEL. PROVIDE A LABEL INDICATING "DUST COLLECTOR EMERGENCY STOP". CONFIRM EXACT WORDING WITH HWDSB (TYP-3).

#### GENERAL NOTES

- THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
- THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
- THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.

#### WOODWORKING EQUIPMENT SCHEDULE

ITEM NO.	DESCRIPTION	EXHAUST CAP. (CFM)	CONNECTION SIZE (IN)	REMARKS
1	MITRE SAW	350	3"	
2	BAND SAW	350	3"	
3	JOINTER	390	4"	
4	TABLE SAW	390	4"	
5	BELT/DISC SANDER	700	2X3"	TWO SEPARATE CONNECTIONS TO SANDER
6	PLANER	820	6"	
7	SPARE	350	3"	CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION
8	BAND SAW	350	3"	
9	SPINDLE SANDER	350	3"	
10	MITRE SAW	350	4"	
11	SCROLL SAW	220	3"	
12	SCROLL SAW	220	3"	
13	ROUTER	275	3"	
14	ROUTER	275	3"	
15	SPARE	390	4"	CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION
16	SPARE	390	4"	CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION



Giallonardo —  
Engineering Inc.

228-4558 Highway 7  
Woodbridge, ON  
L4L 4Y7  
(905) 265-1052  
info@gei.ca | onard@gei.ca  
www.gei.ca | onard@gei.ca

This drawing is the property of  
GIALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.

**HWDSB**

NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPMENT PURCHASE	DEC. 27 2024	JH
3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

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:

#### DUST COLLECTION SYSTEM - NEW



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-arch.com



DESIGN BY:  
**SW**

DOC CONTROL:  
DATE:

DRAWN BY:  
**RC**

% COMPLETE:

CHECKED BY:  
**JH**

INITIAL:

DATE:  
**SEPTEMBER 2024**

SCALE:  
**AS SHOWN**

FILE:

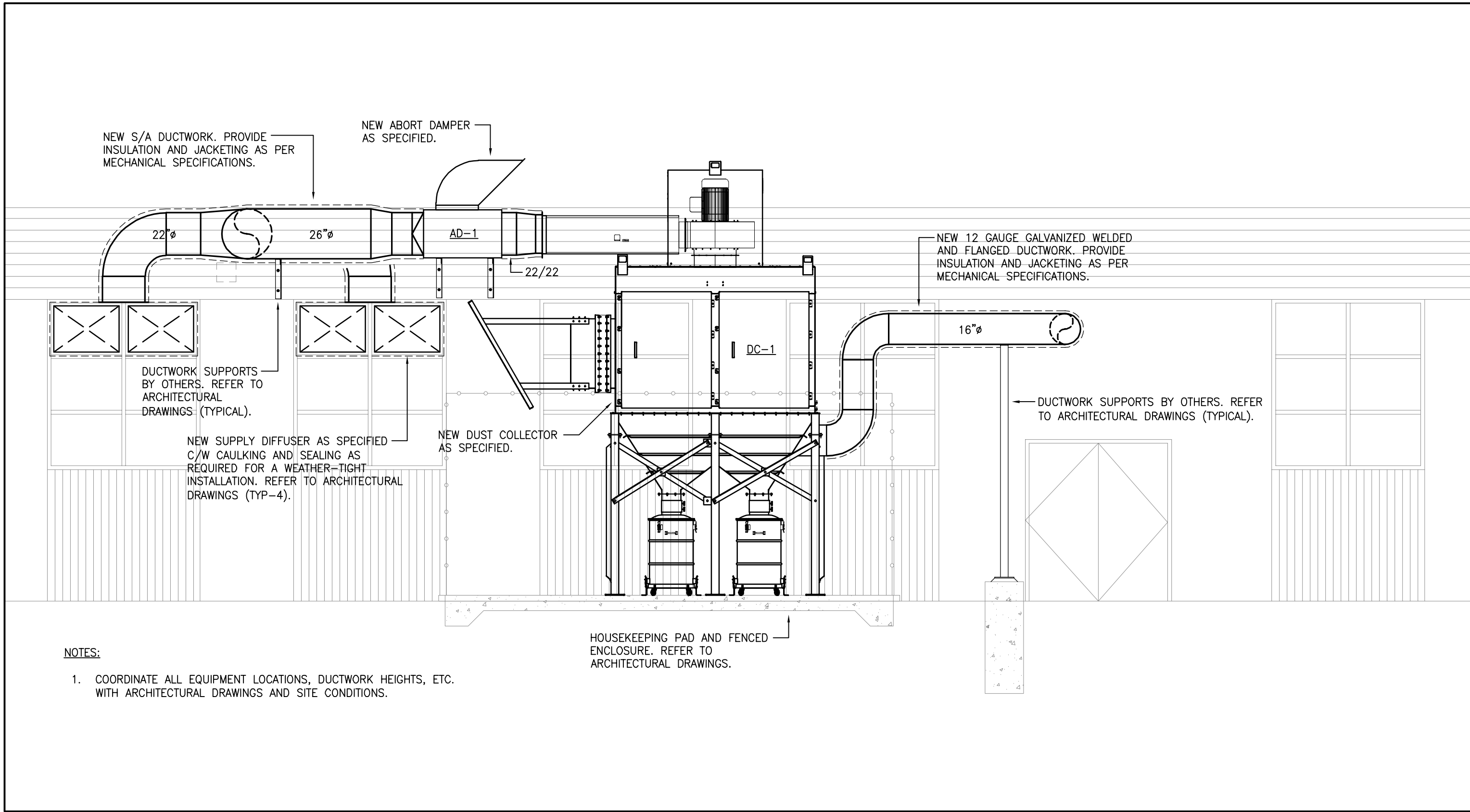
PROJECT NO:

**24154A**

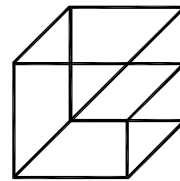
DRAWING NO:

**M-2.2**





**1**  
**M-2.3**  
**DUST COLLECTION SYSTEM - EAST ELEVATION**  
1/4" = 1'-0"



Giallonardo —  
Engineering Inc.  
228-4558 Highway 7  
Woodbridge, ON  
L4L 4Y7  
(905) 265-1052  
info@gi.altonardoong.com  
www.gi.altonardoong.com

This drawing is the property of  
GIALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical  
and all other consultant's drawings prior to proceeding with the work. Do not scale  
the drawings.

The contractor is to verify and accept responsibility for all dimensions and  
conditions on site and must notify GIALLONARDO ENGINEERING INC. of any  
variations from the drawings.

**HWDSB**

NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPMENT PURCHASE	DEC. 27 2024	JH
3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

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:

**DUST COLLECTION  
SYSTEM - EAST  
ELEVATION**



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: <b>SW</b>	DOC CONTROL: DATE:
DRAWN BY: <b>RC</b>	% COMPLETE:
CHECKED BY: <b>JH</b>	INITIAL:
DATE: <b>SEPTEMBER 2024</b>	
SCALE: <b>AS SHOWN</b>	
FILE:	

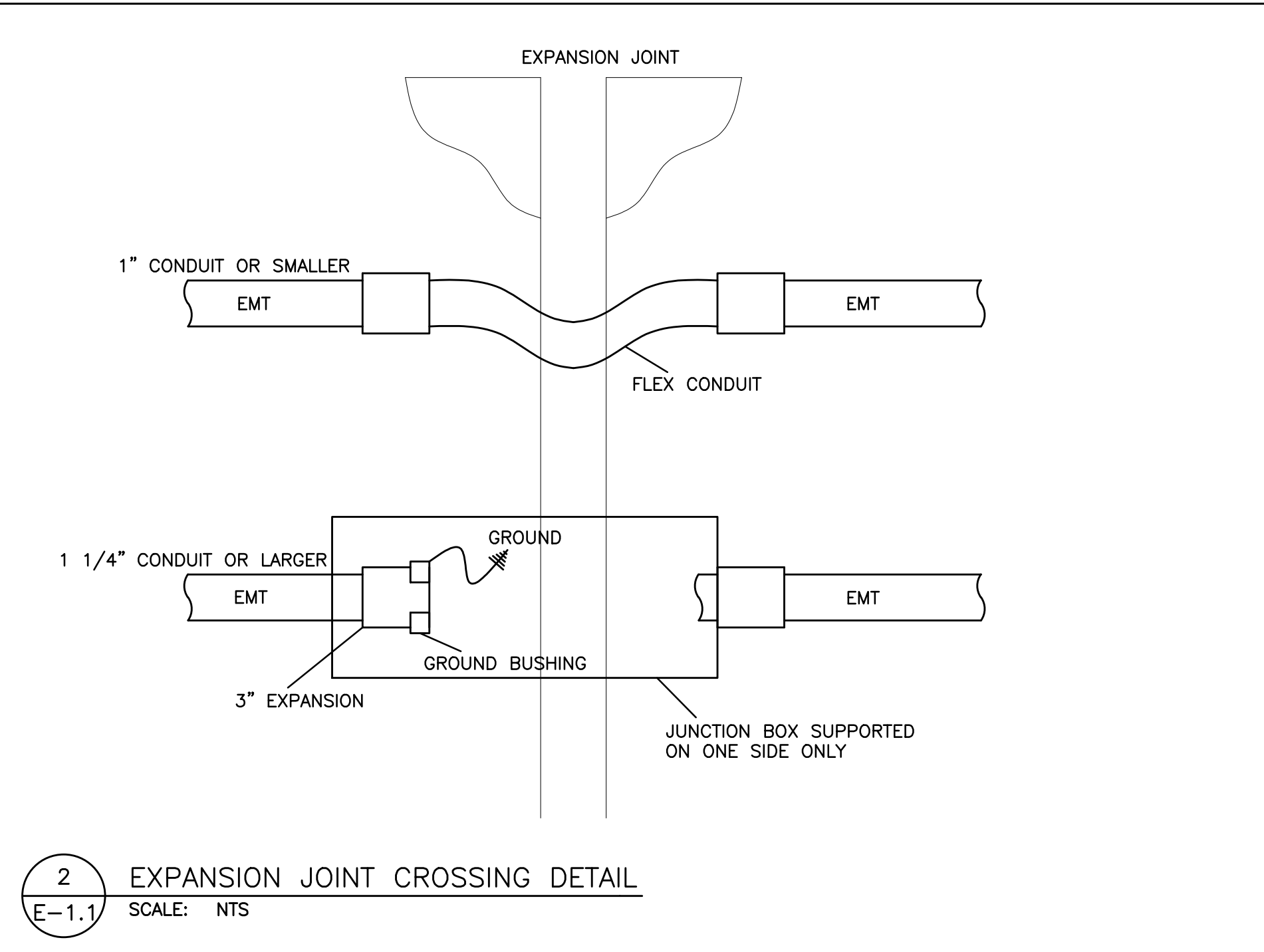
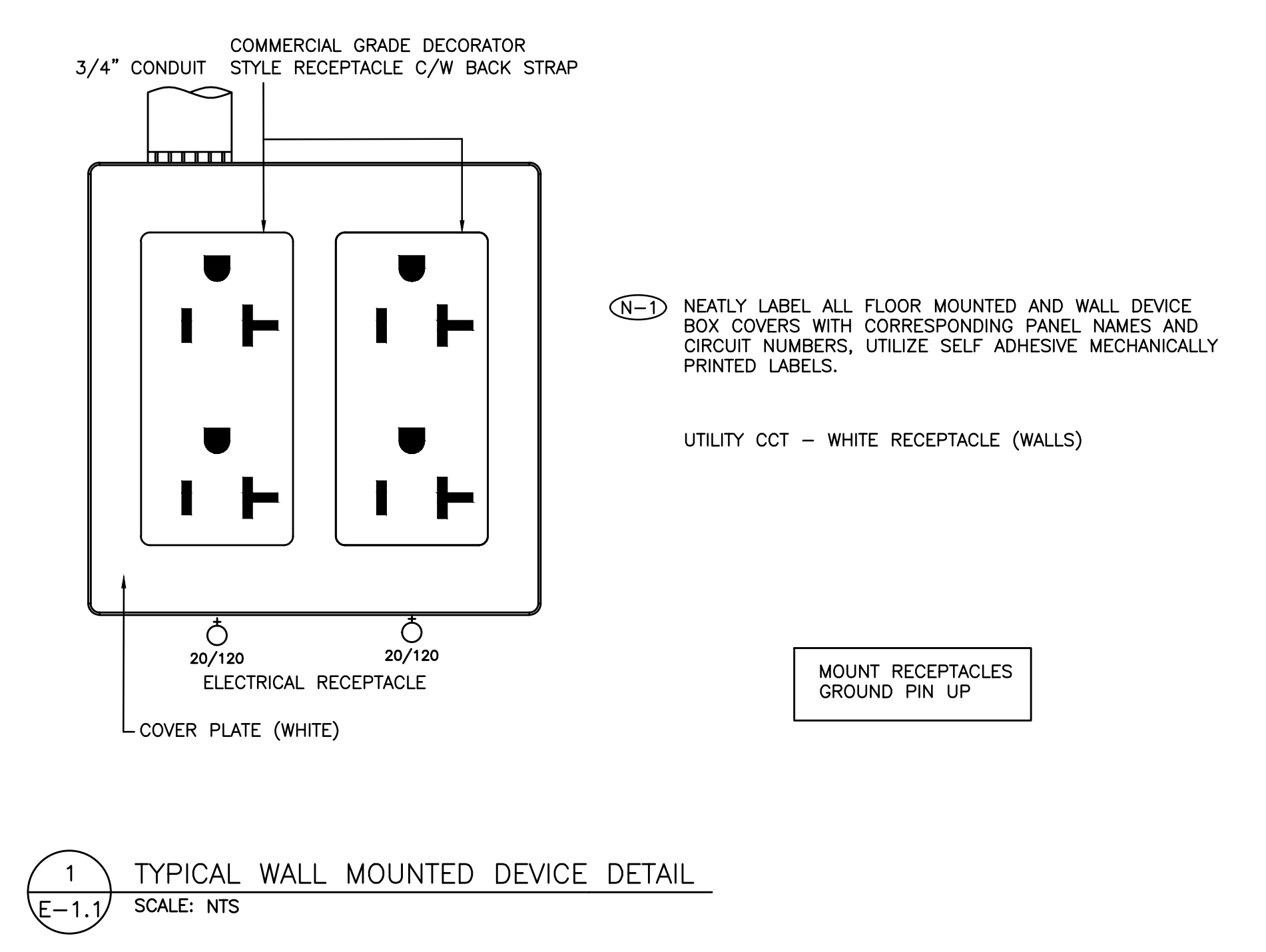
PROJECT NO:

**24154A**

DRAWING NO:

**M-2.3**





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  
E-1.1  
FIRE ALARM SYSTEM ZONE SCHEDULE  
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

- 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. 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 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
3	ISSUED FOR TENDER	MAY. 5 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

NO.	REVISIONS	DATE	BY



PROJECT:

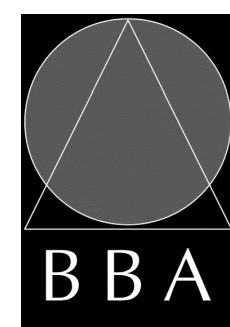
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**ELECTRICAL LEGEND  
AND DETAILS**

HCC PROJECT #24211



**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:

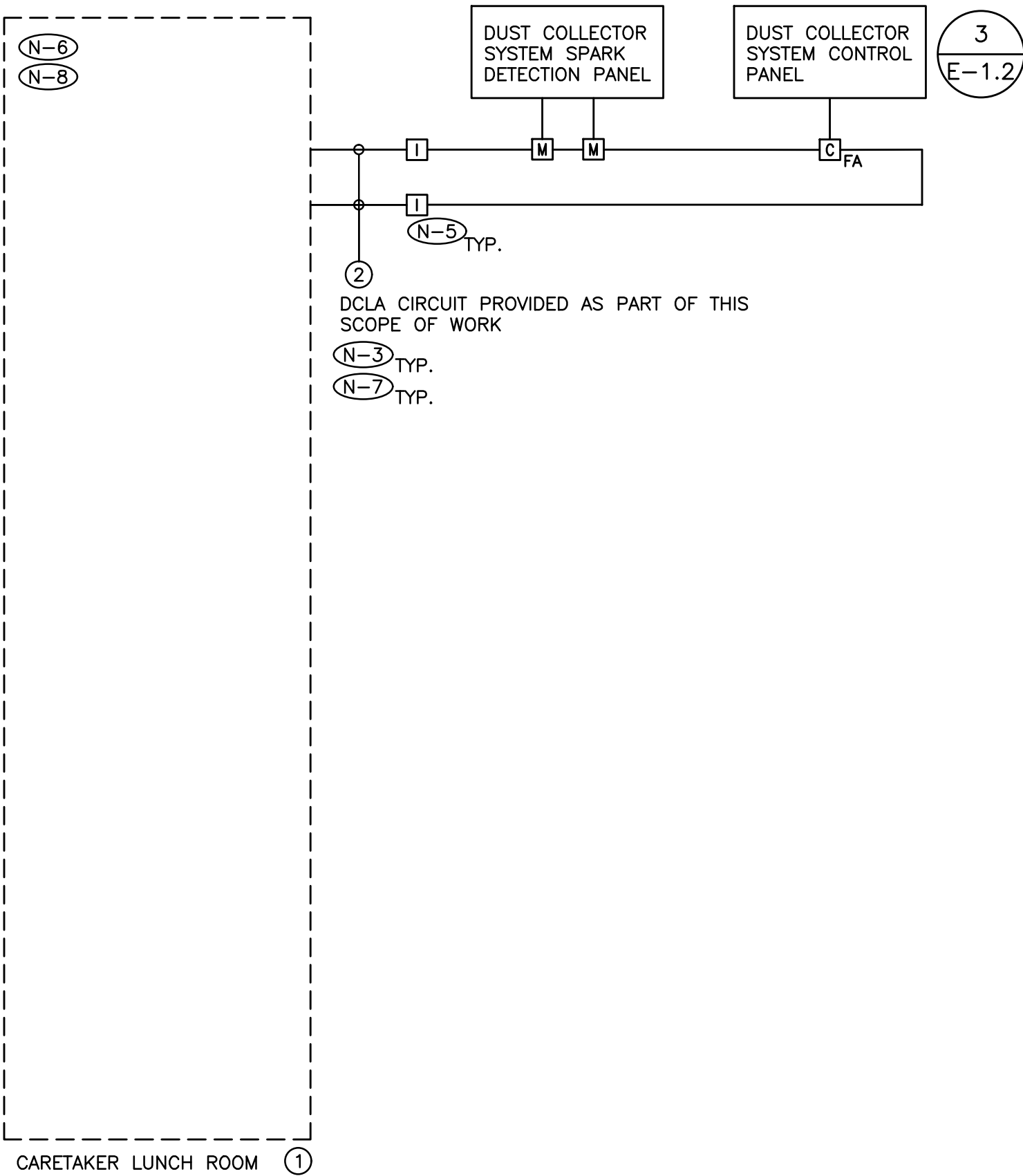
SCALE:  
AS SHOWN

FILE:

PROJECT NO:  
**24141.1**

DRAWING NO:  
**E-1.1**





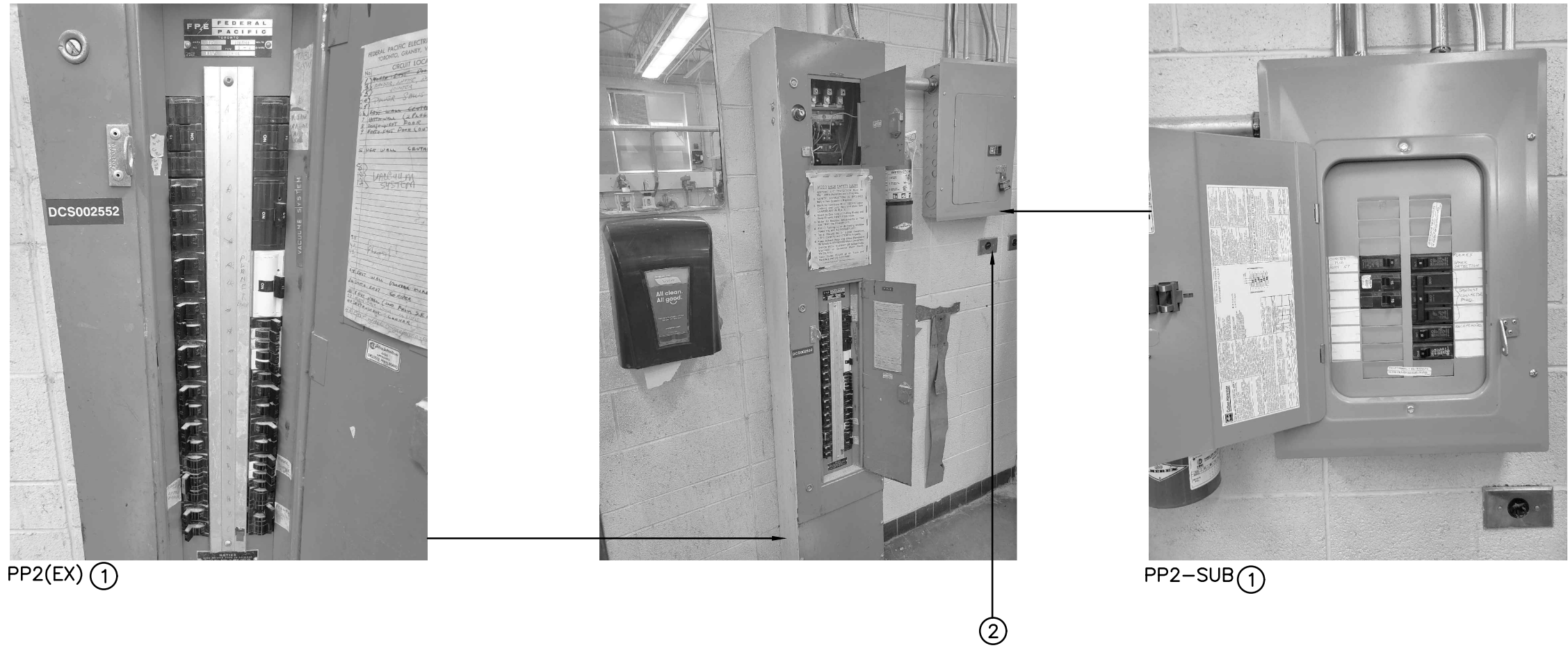
- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF STROBE LIGHT CIRCUITS, BELL CIRCUITS, INITIATING DEVICE CIRCUITS, HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, ETC., TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.
- (N-2) REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT QUANTITY 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.
- \* -X -X -X -X -X\* DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR.

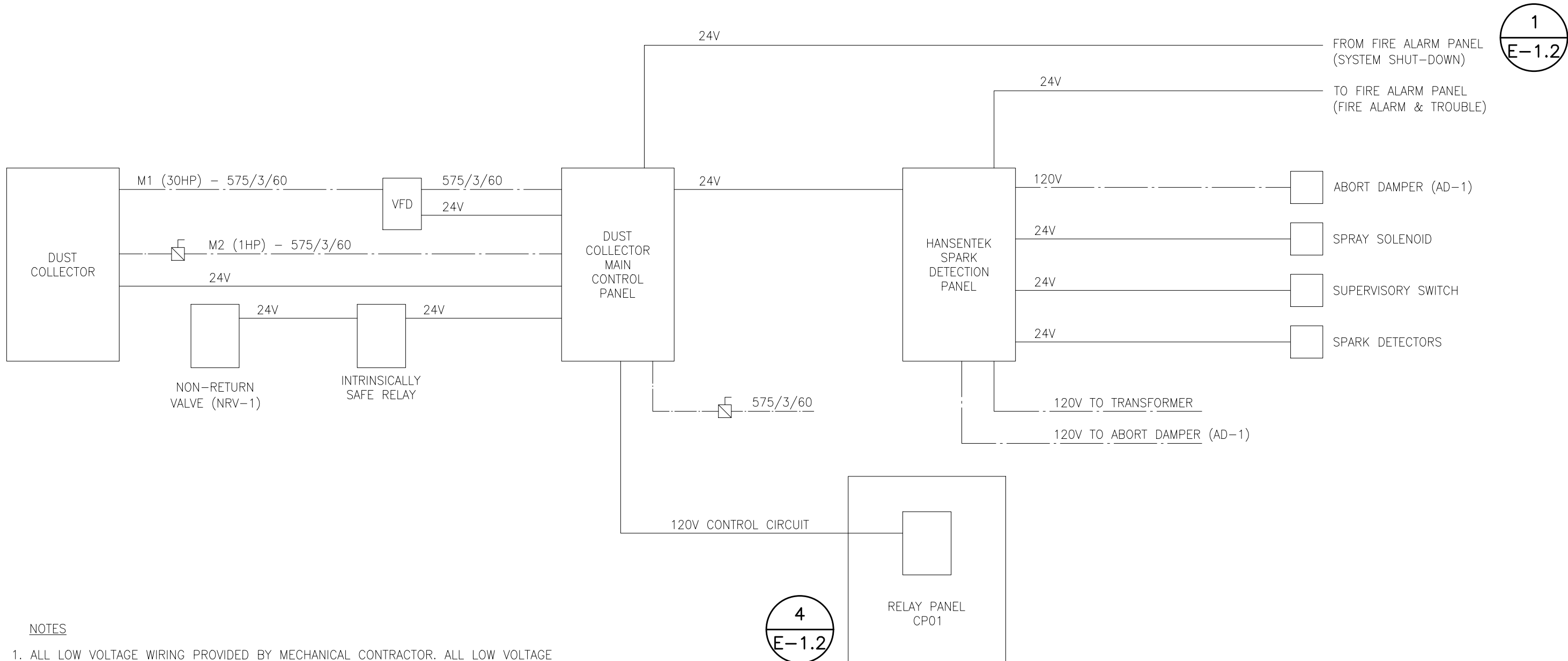
1 PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM  
E-1.2 SCALE: NTS



- (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

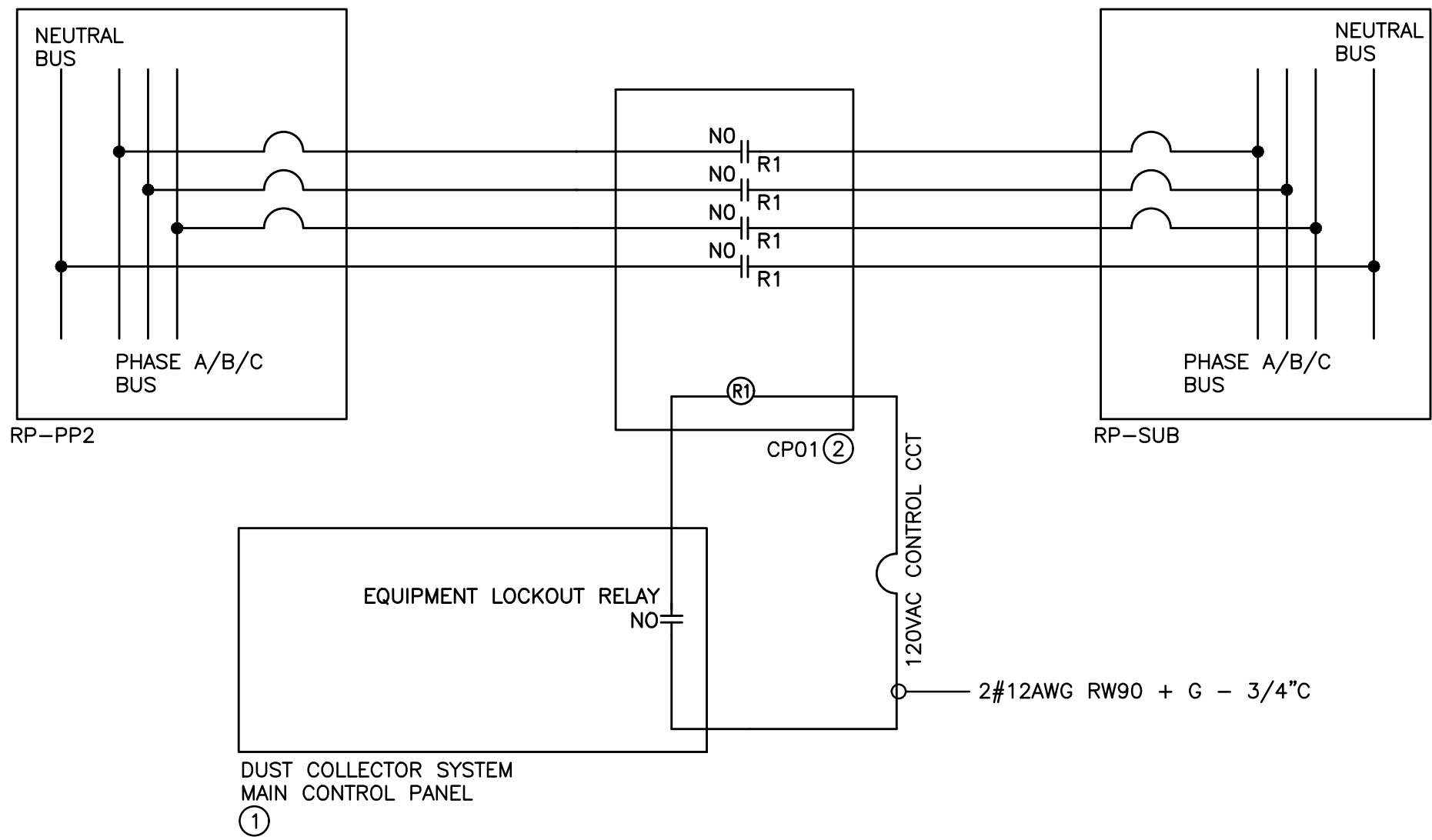


NOTES

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.

- 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 8903SQG3V84FF4TX22/18.15"W X 29.15"H X 9.24"D WALL MOUNTED ENCLOSURE

4 WOOD SHOP EQUIPMENT PANEL WIRNG SCHEMATIC  
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.

**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

**HCC ENGINEERING**  
DESIGN AND TECHNOLOGY SERVICES GROUP  
HCC ENGINEERING LIMITED  
200 KING STREET WEST  
SUITE 310  
TORONTO, ONTARIO, M5H 3T4  
Tel: (416) 932-2425

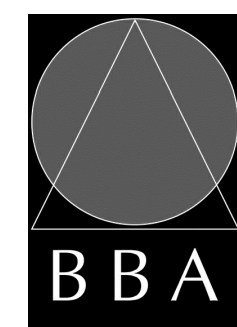
NO.	REVISIONS	DATE	BY
-----	-----------	------	----



PROJECT:  
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**  
200 DEWITT ROAD  
HAMILTON, ONTARIO L8N 3L1  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:  
**ELECTRICAL DETAILS**

HCC PROJECT #24211



**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: DATE:

DRAWN BY: % COMPLETE:

CHECKED BY: INITIAL:

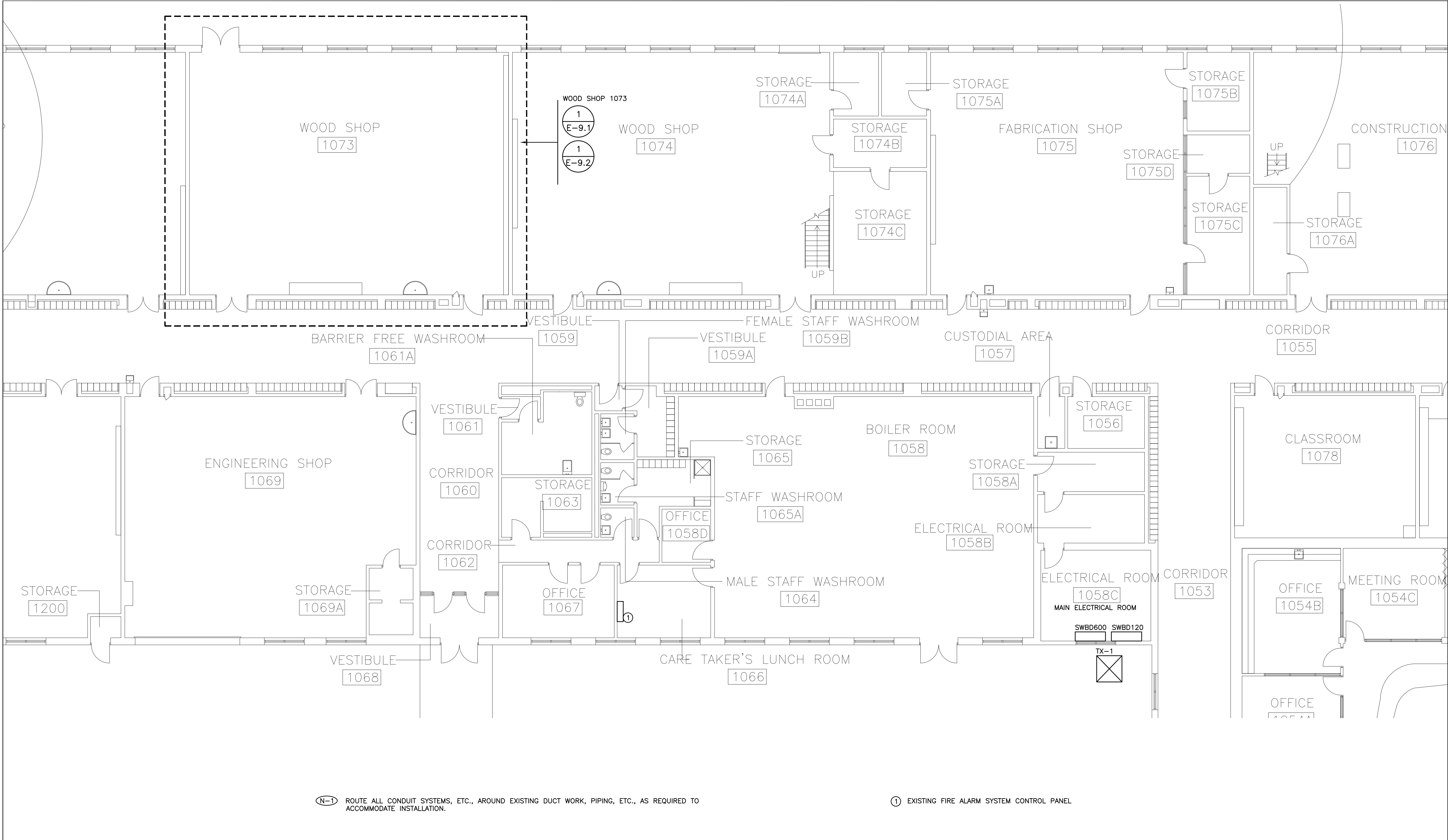
DATE:

SCALE: AS SHOWN

FILE:

PROJECT NO: **24141.1**  
DRAWING NO: **E-1.2**





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
3	ISSUED FOR TENDER	MAY. 5 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

NO.	REVISIONS	DATE	BY

LICENSED PROFESSIONAL ENGINEER  
Z. ZHONG  
100545750  
MAY05/25  
PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER  
H.D. COHEN  
80414335  
MAY05/25  
PROVINCE OF ONTARIO

PROJECT:  
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**  
  
200 DEWITT ROAD  
HAMILTON, ONTARIO L8N 3L1  
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:  
**ELECTRICAL PLAN  
PARTIAL GROUND  
FLOOR**  
HCC PROJECT #24211

**B B A**

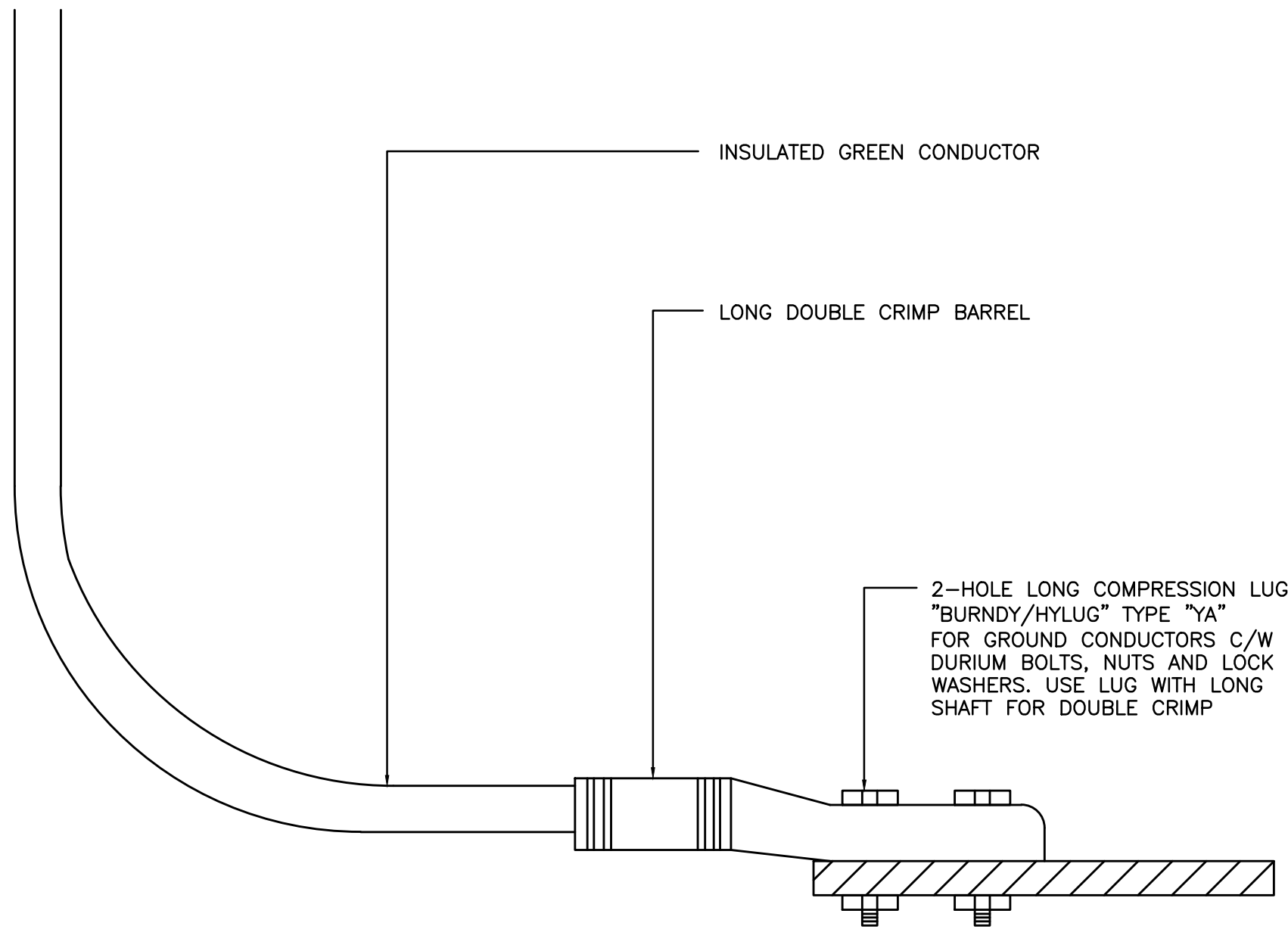
**BARRY BRYAN  
ASSOCIATES**  
  
Architects  
Engineers  
Project Managers  
  
250 Water Street  
Suite 201  
Whitby Ontario  
L1N 0G5  
  
Tel: (905) 666-5252  
Fax: (905) 666-5256  
e-mail: bba@bba-archeng.com

DESIGN BY:	DOC CONTROL:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:
DATE:	
SCALE: 1/8" = 1' - 0"	
FILE:	

PROJECT NO:  
**24141.1**

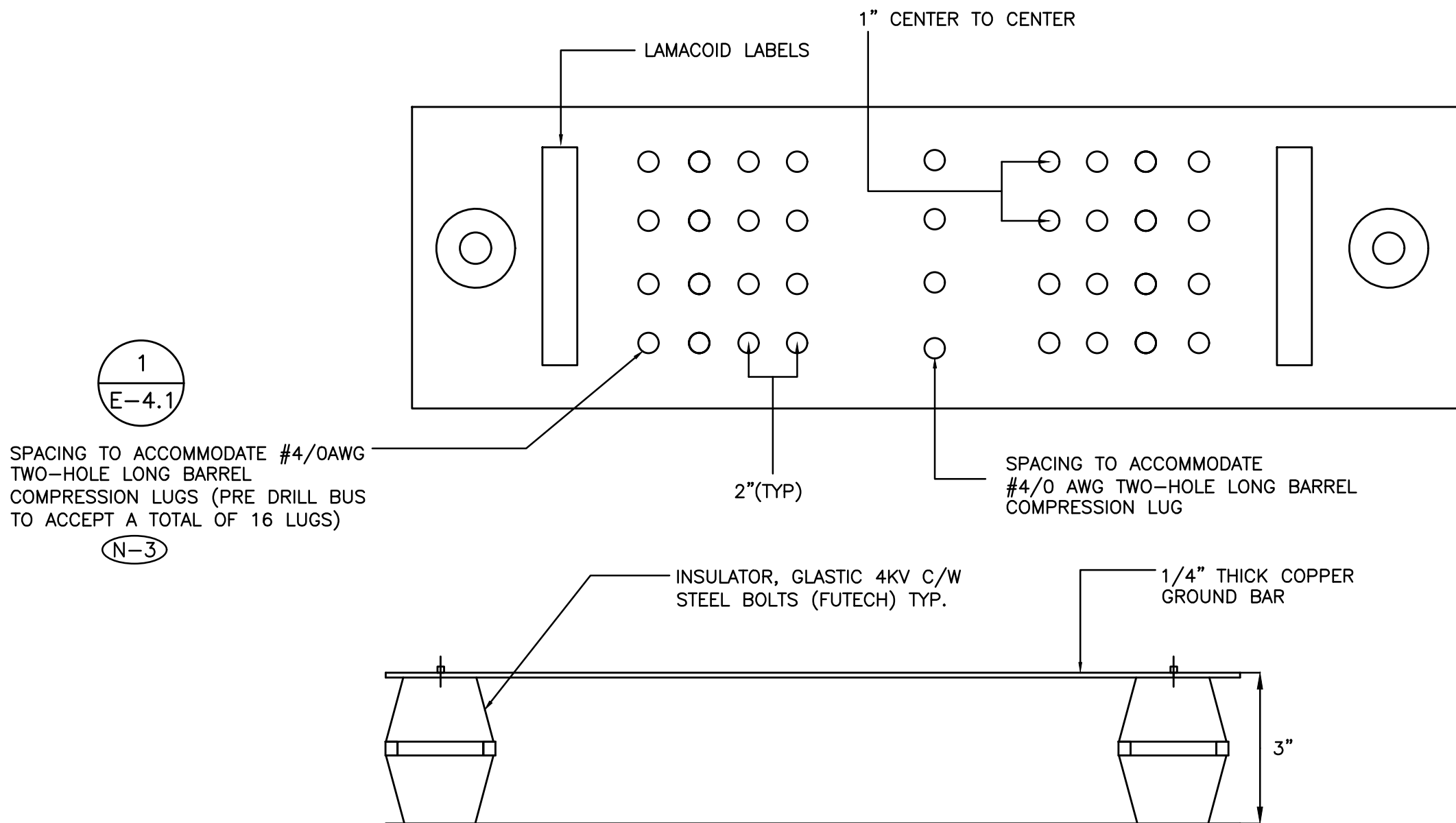
DRAWING NO:  
**E-2.1**







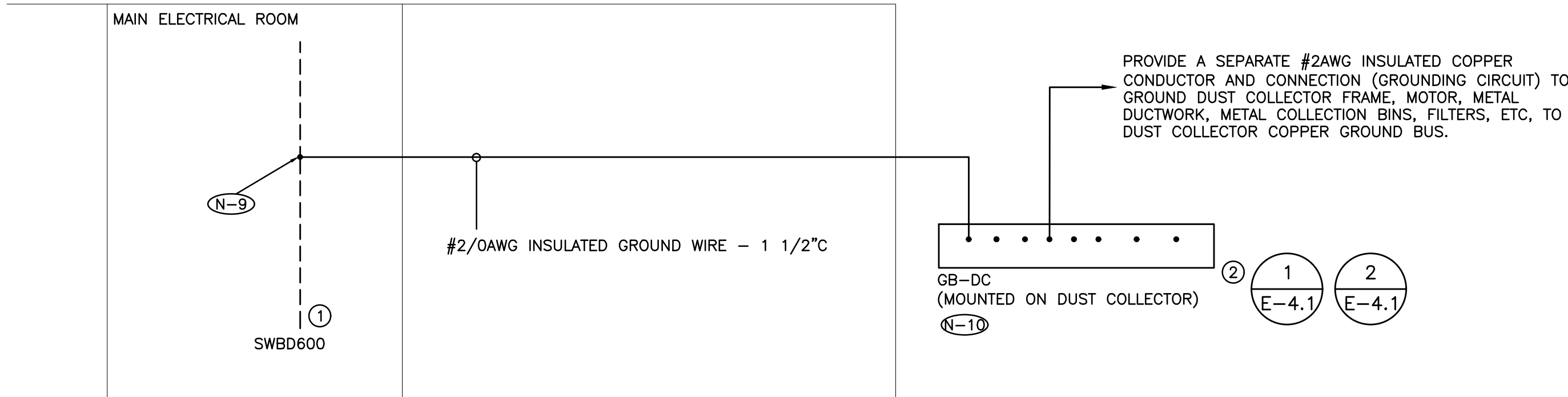
(N-1) UTILIZE 2-HOLE LONG COMPRESSION LUGS FOR ALL CONNECTIONS TO BUS BARS AND TO ALL EQUIPMENT, CABINETS, RACKS, ETC.

1 GROUND LUG DETAIL  
E-4.1 SCALE: NTS



- (N-1) COVER TIPS, LUGS AND COPPER GROUND BAR WITH "PENETROX E" FROM "BURNDY" OR "KOPR-SHIELD" FROM "T&B".
- (N-2) INSTALL 2-HOLE LONG COMPRESSION LUGS FOR GROUND CONDUCTORS C/W DURIMUM BOLTS, NUTS AND WASHERS.
- (N-3) BUS BAR SHALL BE PRE-DRILLED BY THE MANUFACTURER TO MATCH PATTERN INDICATED. FIELD DRILLING IS NOT ACCEPTABLE.
- (N-4) FASTEN BUS BAR TO WALL MOUNTED FIRE RATED PLYWOOD BACKBOARD (BACKBOARD PROVIDED AND PAINTED AS PART OF THIS SCOPE OF WORK).
- HOLES:  DIAMETER TO SUITE LUG
-  13/16" DIAMETER

2 BUILDING GROUND BUS BAR (BGB) DETAIL  
E-4.1 SCALE: NTS



3 GROUNDING SYSTM RISER DIAGRAM  
E-4.1 SCALE: NTS

- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO DRAWING NO. E-7.1 AND E-9.1 FOR QUANTITY AND LOCATION OF ALL BUS BARS AND GROUNDING CONNECTIONS.
- (N-2) SIZE ALL NEUTRAL SYSTEM GROUNDS IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE AND AUTHORITY HAVING JURISDICTION.
- (N-3) GROUNDING AND BONDING OF ALL EQUIPMENT NOT SHOWN ON THIS DETAIL SHALL BE COMPLETED IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE AND AUTHORITY HAVING JURISDICTION.
- (N-4) NOT USED.
- (N-5) NOT USED.
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS.
- (N-7) SCRAPE OFF PAINT AT DUST COLLECTOR SYSTEM END PRIOR TO INSTALLING GROUND LUG.
- (N-8) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-9) PROVIDE BURNDY TYPE YC-C SERVICES HIGH GROUND COMPRESSION SYSTEM CONNECTORS.
- (N-10) NOT USED.
- (N-11) ELECTRICAL CONTRACTOR TO REVIEW GROUNDING SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK AND BASE BUILDING CONNECTION POINTS WITH ESA INSPECTOR PRIOR TO CONSTRUCTION.

- 1 EXISTING GROUNDING CONNECTION POINT AT SERVICE ENTRANCE SWITCHBOARD
- 2 1/4" X 6" X 2' BUILDING GROUND BUS BAR (BGB)

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
3	ISSUED FOR TENDER	MAY. 5 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

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



PROJECT:

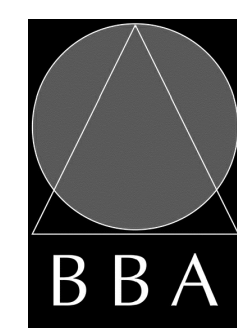
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**ELECTRICAL  
GROUNDING SYSTEM  
DETAILS**

HCC PROJECT #24211



**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:

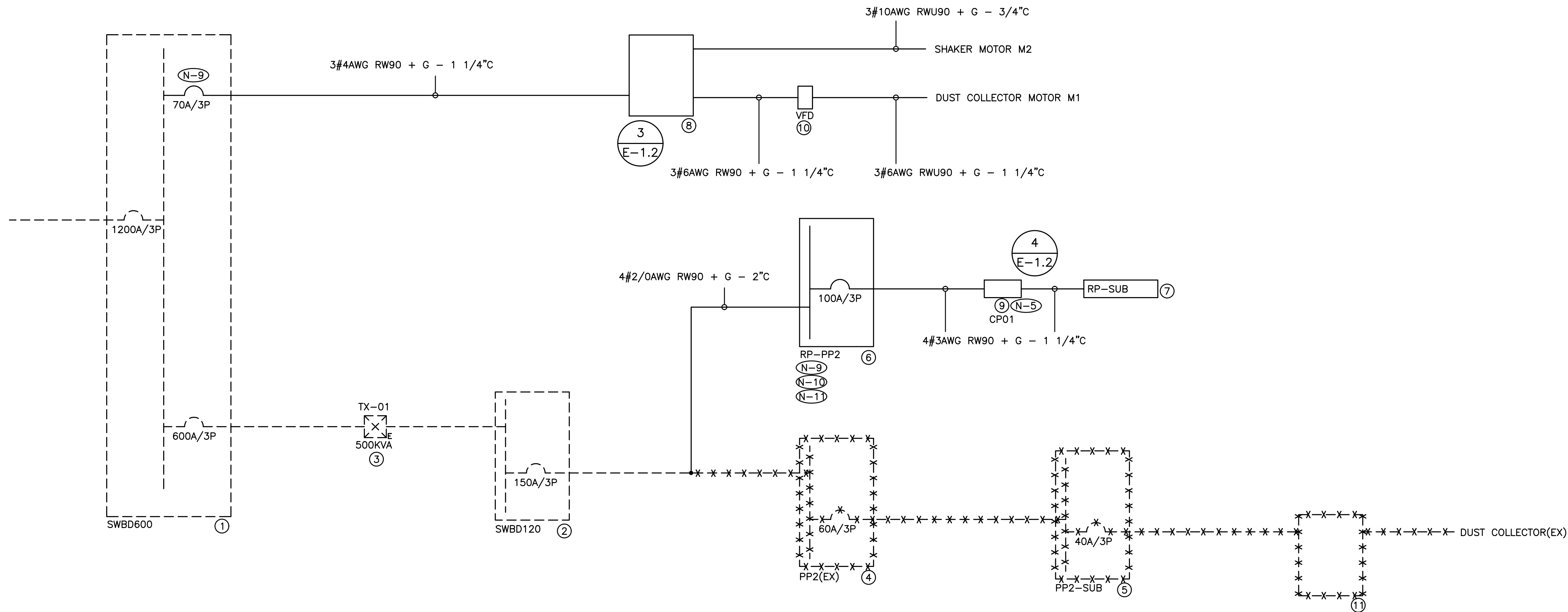
SCALE:  
NTS

FILE:

PROJECT NO:  
**24141.1**

DRAWING NO:  
**E-4.1**





- (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 EXISTING TO REMAIN

\*-\*-\*-\*- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

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
3	ISSUED FOR TENDER	MAY. 5 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

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**

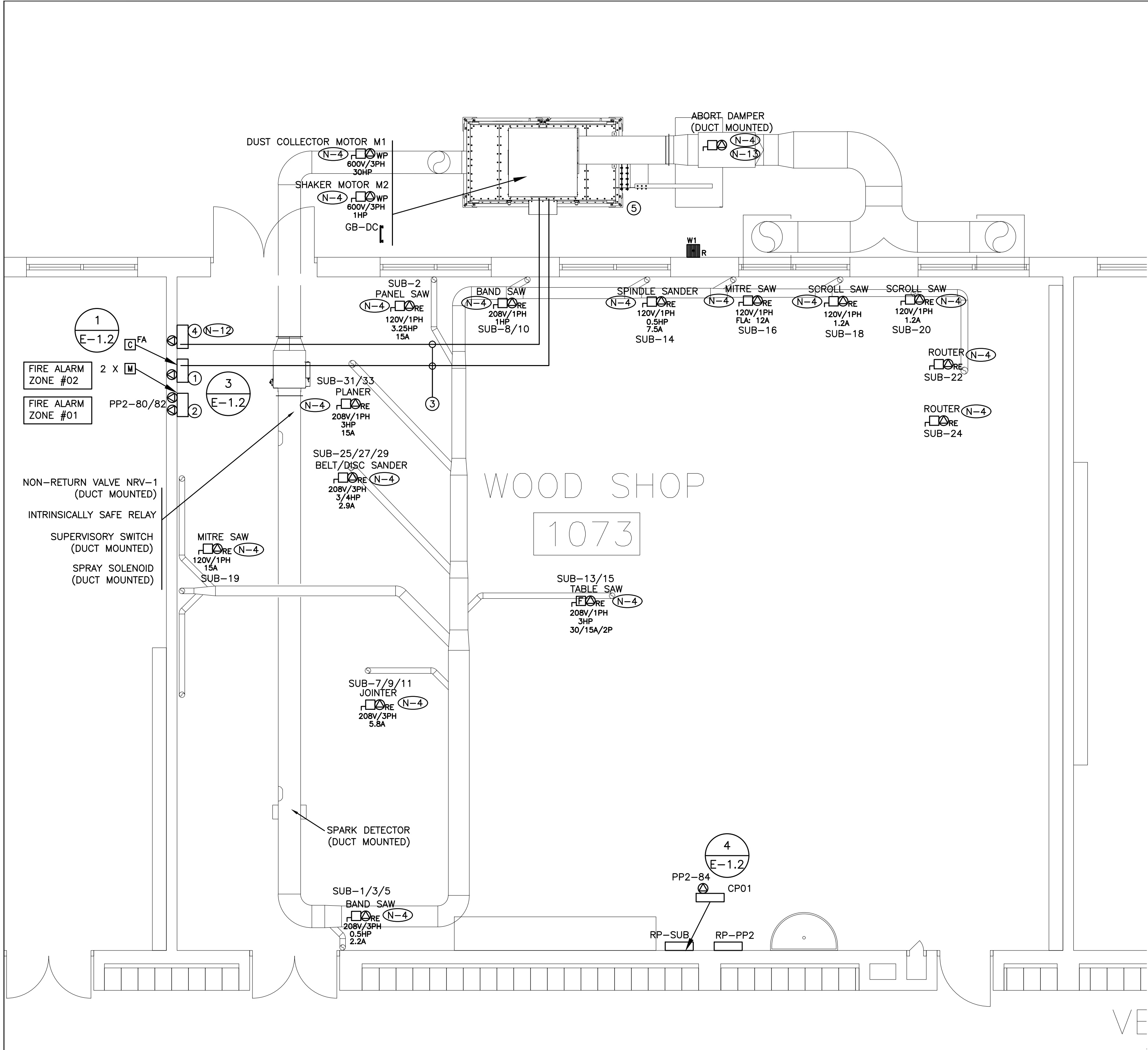
HCC PROJECT #24211

**BARRY BRYAN  
ASSOCIATES**  
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:	DOC CONTROL: DATE:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:
DATE:	
SCALE: NTS	
FILE:	

PROJECT NO: <b>24141.1</b>	DRAWING NO: <b>E-7.1</b>
-------------------------------	-----------------------------





- (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 ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
- (N-9) MINIMUM WIRE SIZE #10AWG FOR ALL 120 VOLT CIRCUITS EXCEEDING 90 FEET IN LENGTH.
- (N-10) MINIMUM WIRE SIZE #8AWG FOR ALL 120 VOLT CIRCUITS EXCEEDING 200 FEET IN LENGTH.
- (N-11) USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS, IN WASHROOMS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.
- (N-12) DUST COLLECTOR VFD POWERED THROUGH DUST COLLECTOR MAIN CONTROL PANEL. PROVIDE CONDUIT AND WIRE.
- (N-13) DUST COLLECTOR ABORT DAMPER POWERED THROUGH DUST COLLECTOR SPARK DETECTION PANEL. PROVIDE CONDUIT AND WIRE.

- 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-1.2 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

INSULATION FOR ALL EXTERIOR WIRING MUST BE RWU90.

FIXTURE SCHEDULE

TYPE W1 - EXISTING OUTDOOR WALL MOUNTED FIXTURE C/W IN LINE POWER DISCONNECT, 347V POWER SUPPLY AND LAMPS

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
3	ISSUED FOR TENDER	MAY. 5 2025	KZ

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

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



PROJECT:

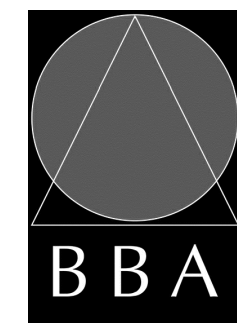
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**ELECTRICAL PLAN  
WOOD SHOP**

HCC PROJECT #24211



**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:

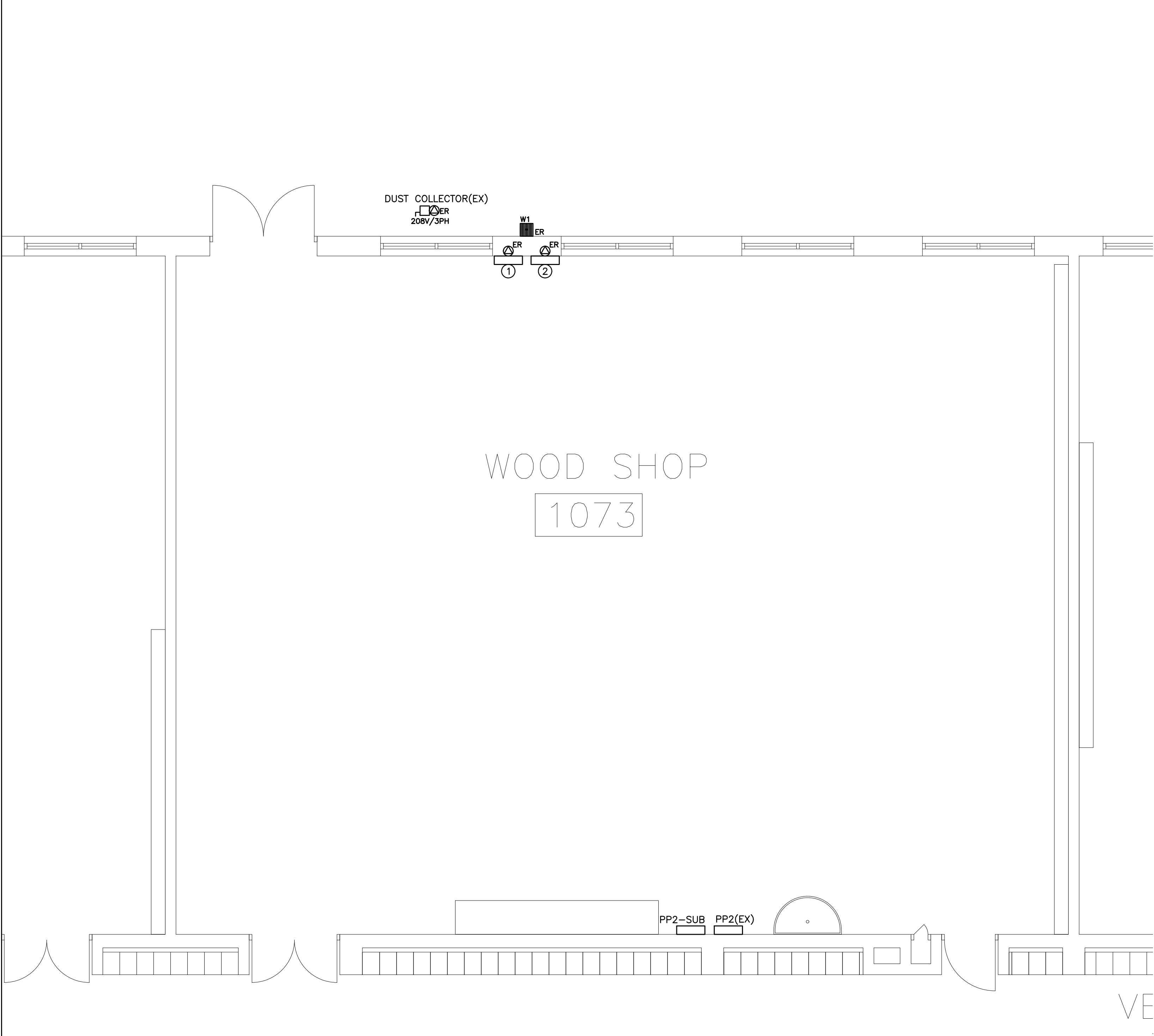
SCALE:  
1/4" = 1' - 0"

FILE:

PROJECT NO:  
**24141.1**

DRAWING NO:  
**E-9.1**





REFER TO DRAWING NO. E-9.1  
FOR FIXTURE SCHEDULE

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

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
3	ISSUED FOR TENDER	MAY. 5 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

NO.	REVISIONS	DATE	BY



PROJECT:

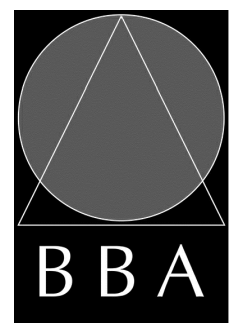
**ORCHARD PARK  
SECONDARY SCHOOL  
DUST COLLECTOR REPLACEMENT**

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

DRAWING:

**ELECTRICAL  
DEMOLITION PLAN  
WOOD SHOP**

HCC PROJECT #24211



**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:	DOC CONTROL:
DRAWN BY:	% COMPLETE:
CHECKED BY:	INITIAL:
DATE:	
SCALE:	1/4" = 1' - 0"
FILE:	

PROJECT NO:  
**24141.1**

DRAWING NO:  
**E-9.2**