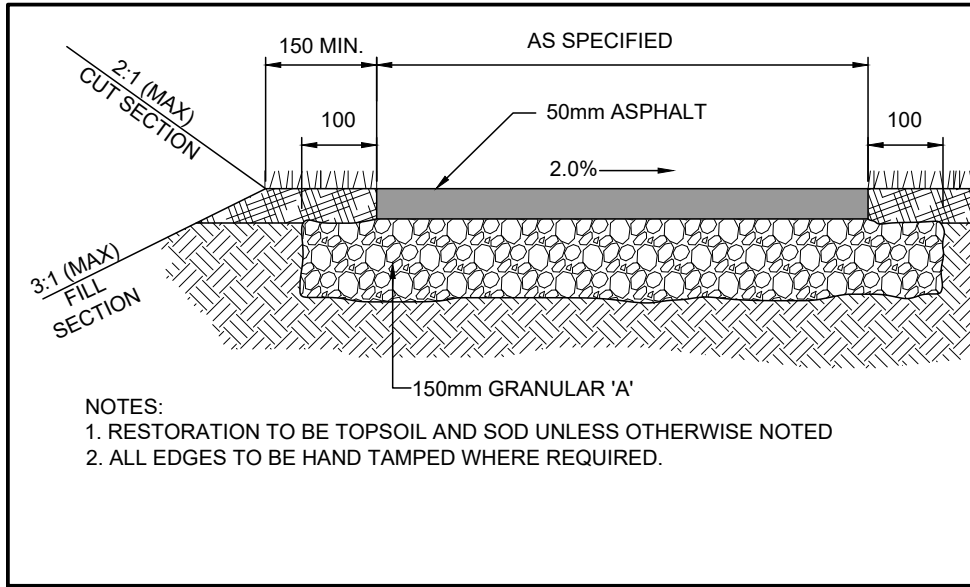


GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORK ARE FENCED OFF FROM EXISTING PLAY AREA AND PARKING LOT ACCESS IS MAINTAINED.
2. AREA OF CONSTRUCTION TO BE COORDINATED WITH ARCHITECT AND SCHOOL BOARD PRIOR TO BEGINNING THE WORK.
3. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONNECTIONS FROM EXISTING SCHOOL.
4. PORTABLE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FOUNDATIONS, FOOTINGS AND WOODEN STAIRS AS PER DETAILS TO ACCOMMODATE NEW PORTABLES BASED ON LOCATION OR EXISTING FOOTINGS FROM THE SITE WHERE PORTABLE IS BEING RELOCATED FROM. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING PORTABLE STRUCTURE AND COORDINATING LOCATIONS OF NEW SUPPORT PIERS.
5. REFER TO AND COORDINATE WITH ELECTRICAL DOCUMENTS FOR EXTENT OF DEMOLITION AND NEW WORK. REPLACE ALL SOD **AND / OR** ASPHALT PAVING DISTURBED DUE TO ELECTRICAL WORK WITH NEW SOD **AND / OR** ASPHALT PAVING TO MATCH EXISTING WHERE REQUIRED. SEE SITE PLAN FOR EXISTING SURFACES TO BE REINSTATED.
6. PATCH, REPAIR, REPLACE AND MAKE GOOD ALL SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES WITH MATERIALS TO MATCH EXISTING DISTURBED SURFACES.

CONSTRUCTION NOTES

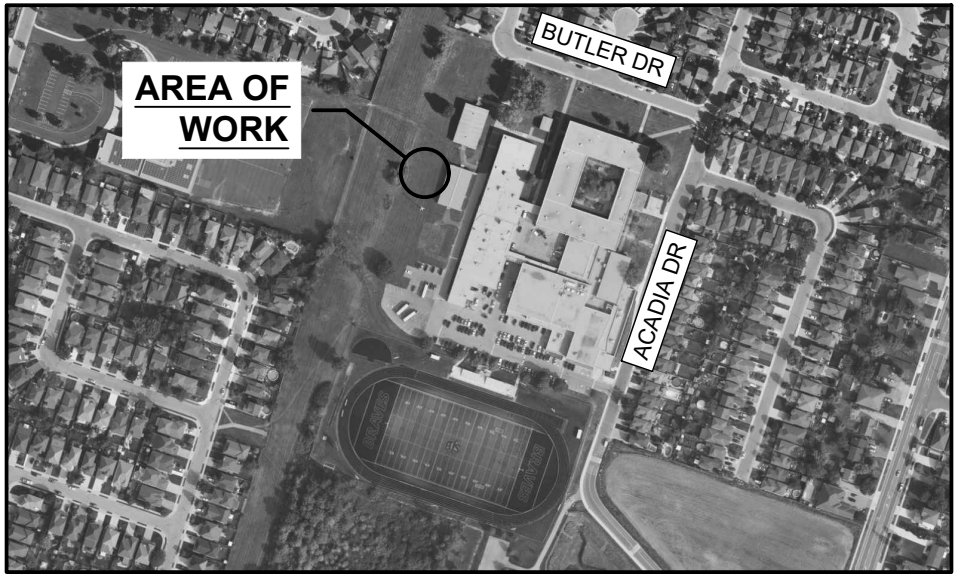
- C1 SHADED AREA DENOTES NEW ASPHALT. REFER TO DETAIL MAKE GOOD ALL SURFACES (SOD) DISTURBED
- C2 CUT BACK 1500mm ± OF EXISTING SOD AROUND ENTIRE 4-PAC PORTABLE. RE-GRADE AND RE-SEED AS REQUIRED



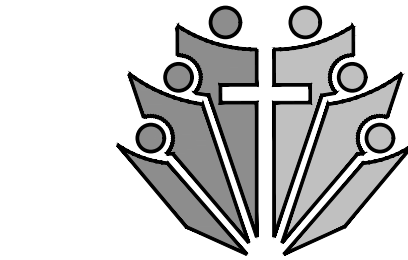
TYP. ASPHALT WALKWAY DETAIL  
SCALE: NTS

WASHROOM CALCULATION

|   |                             |
|---|-----------------------------|
| Male / Female Count at 50% / 50 %                 | OBC Reference 3.7.4.3. (14) |
| EX. OCCUPANT LOAD (Elementary School)             | 1611 Students + 140 Staff   |
| + 4PAC CLASSROOM ADDITION                         | 92                          |
| TOTAL   | 1843                        |
| TOTAL FEMALES                                     | 922                         |
| TOTAL FEMALE FIXTURES REQUIRED (1 PER 26 FEMALES) | 36                          |
| TOTAL FEMALE FIXTURES PROVIDED                    | 59                          |
| TOTAL MALES                                       | 922                         |
| TOTAL MALE FIXTURES REQUIRED (1 PER 30 MALES)     | 31                          |
| TOTAL MALE FIXTURES PROVIDED                      | 59                          |



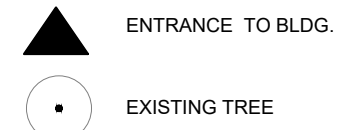
LOCATION MAP  
N.T.S.



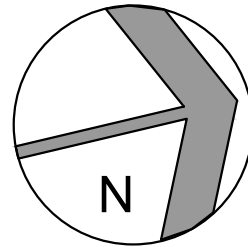
Hamilton-Wentworth  
Catholic District School Board

LEGEND

- BS BASKETBALL NET / BACKSTOP  
BF BARRIER FREE  
CB CATCH BASIN  
CLF CHAIN LINK FENCE  
CONC CONCRETE  
DC DEPRESSED CURB  
EX EXISTING  
FH FIRE HYDRANT  
FP FLAG POLE  
HP HYDRO POLE  
LD LIMITING DISTANCE  
LS LIGHT STANDARD  
MAX MAXIMUM  
MH MAN HOLE  
MIN MINIMUM  
SAN SANITARY  
SIB STANDARD IRON BAR  
STM STORM  
T/R TO REMAIN  
W/M WATERMAIN



EXISTING TREE



ZONING DATA FOR CITY OF HAMILTON

| ITEM DESCRIPTION  | PERMITTED   | ACTUAL OR PROPOSED  |
|---|---|---|
| ZONING DESIGNATION  | 12-COMMUNITY INSTITUTIONAL  |   |
| NET LOT AREA (MIN)  | NONE  | 29,014 sqm  |
| MINIMUM YARD WHERE LOT LINE ABUTS A RESIDENTIAL ZONE LOT LINE | 6.0 m   | N/A   |
| MAXIMUM BUILDING HEIGHT                                       | 10.5m   | EX SCHOOL = 12m<br>PROPOSED 4-PAC = 3.39m   |
| REQUIRED PARKING SPACES:                                      | EX SECONDARY SCHOOL:<br>63 EX CLASSROOM x 3 = 189 REQ'D<br>PROPOSED 4-PAC ADDITION:<br>4 PORTABLE CLRM x 3 = 12 REQ'D<br>TOTAL REQUIRED = 201 | TOTAL =<br>182 PARKING SPACES PROVIDED<br><b>168 SPACES REQ'D AS PER COMMITTEE OF ADJUSTMENT APPLICATION HM/A-08-42 (200 ACADIA DR)</b> |

NAME OF PRACTICE: GRGURIC ARCHITECTS INCORPORATED

CERTIFICATE OF PRACTICE NUMBER: 4760

CONTACT: JOHN GRGURIC

28 KING STREET EAST, UNIT B, STONEY CREEK, ON L8G 1J8  
TEL: 905-664-8737

NAME OF PROJECT:

St. Jean de Brébeuf Catholic Secondary School

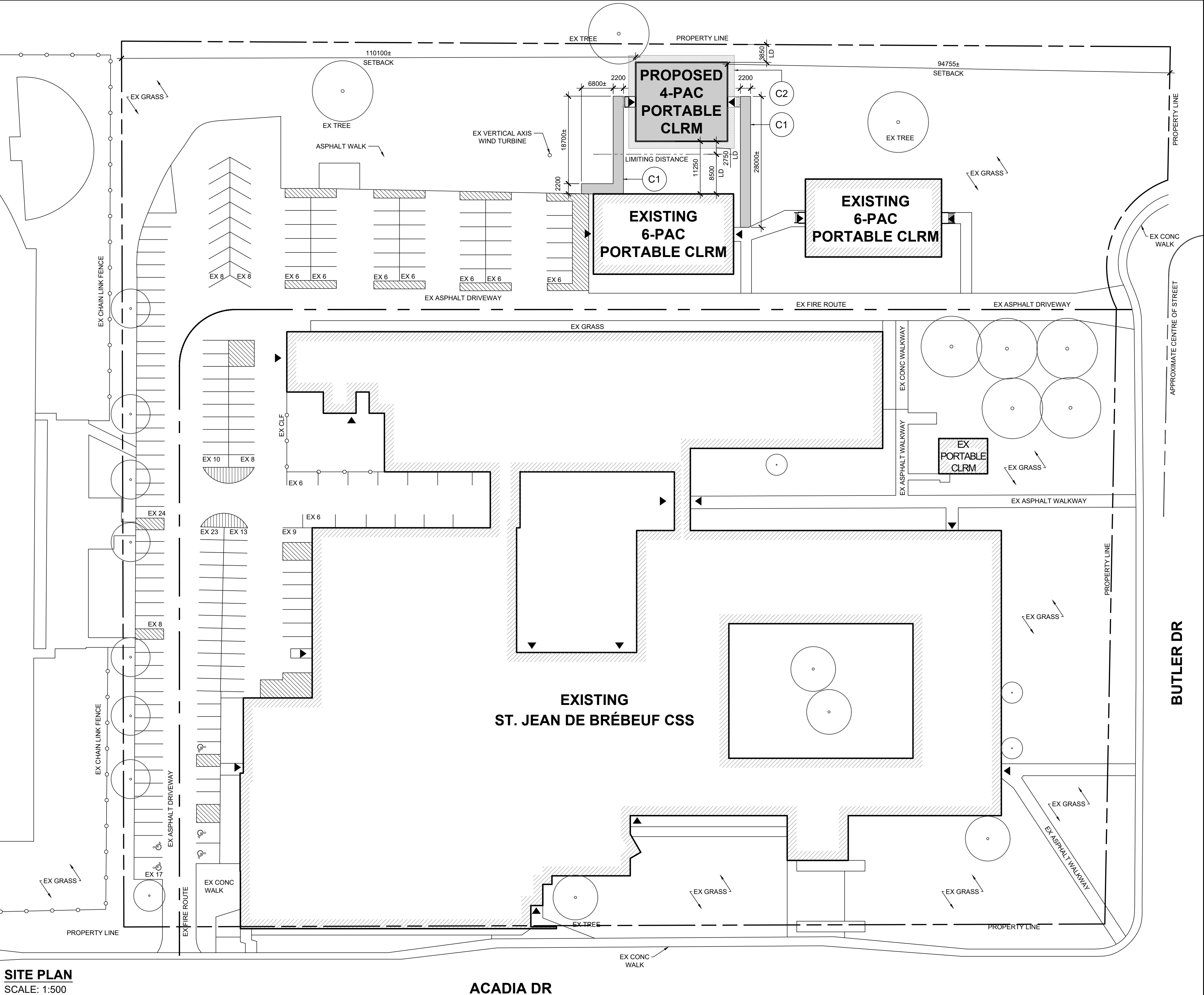
4-PAC PORTABLE CLASSROOM ADDITION

LOCATION:

200 Acadia Dr, Hamilton, ON L8W 1B8

| Item | Ontario's 2024 Building Code<br>Data Matrix Parts 3 or 9   |  |   |   | OBC Reference  |                        |                   |                              |                               |                               |
|------|--|--|---|---|--|------------------------|-------------------|------------------------------|-------------------------------|-------------------------------|
|      |  |  |   |   | References are to Division B unless noted<br>[A] for Division A or [C] for Division C            |                        |                   |                              |                               |                               |
| 1    | Project Description:<br><b>4-PAC PORTABLE CLASSROOM ADDITION</b>   | <input type="checkbox"/> New<br><input checked="" type="checkbox"/> Addition<br><input type="checkbox"/> Change of Use   | <input type="checkbox"/> Part 11<br>11.1 to 11.4                          | <input checked="" type="checkbox"/> Part 3<br>1.1.2 [A] | <input type="checkbox"/> Part 9<br>1.1.2 [A] &<br>9.10.1.3                                       |                        |                   |                              |                               |                               |
| 2    | Major Occupancy(s)<br><b>GROUP A DIVISION 2</b>  |  |   |   | 3.1.2.1.(1)<br>9.10.2  |                        |                   |                              |                               |                               |
| 3    | Building Area <b>332.5 m²</b>  |  |   |   | 1.4.1.2 [A]<br>1.4.1.2 [A]   |                        |                   |                              |                               |                               |
| 4    | Gross Area <b>332.5 m²</b>   |  |   |   | 1.4.1.2 [A]<br>1.4.1.2 [A]   |                        |                   |                              |                               |                               |
| 5    | Number of storeys <b>1</b>   | Above grade <b>1</b>   | Below grade <b>0</b>  | 1.4.1.2 [A] & 3.2.1.1<br>1.4.1.2 [A] & 9.10.4           |  |                        |                   |                              |                               |                               |
| 6    | Number of Streets/ Fire Fighter Access <b>1</b>  |  |   |   | 3.2.2.10 & 3.2.5<br>9.10.20.   |                        |                   |                              |                               |                               |
| 7    | Building Classification <b>Group A, Division 2, 1 Storey (3.2.2.28.)</b>   |  |   |   | 3.2.2.20 - .83<br>9.10.2.  |                        |                   |                              |                               |                               |
| 8    | Sprinkler System Proposed  | <input type="checkbox"/> entire building<br><input type="checkbox"/> selected compartments<br><input type="checkbox"/> selected floor areas<br><input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating<br><input checked="" type="checkbox"/> not required |   |   | 3.2.2.20 - 83<br>3.2.1.5.<br>3.2.2.17.<br>INDEX<br>INDEX   |                        |                   |                              |                               |                               |
| 9    | Standpipe required   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 3.2.9<br>N/A  |   |  |                        |                   |                              |                               |                               |
| 10   | Fire Alarm required  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 3.2.4<br>9.10.18  |   |  |                        |                   |                              |                               |                               |
| 11   | Water Service/Supply is Adequate   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 3.2.5.7.<br>N/A   |   |  |                        |                   |                              |                               |                               |
| 12   | High Building  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 3.2.6<br>N/A  |   |  |                        |                   |                              |                               |                               |
| 13   | Permitted Construction <input type="checkbox"/> Combustible permitted<br>Actual Construction <input type="checkbox"/> Combustible  | <input type="checkbox"/> Non-combustible required<br><input checked="" type="checkbox"/> Non-combustible   | <input checked="" type="checkbox"/> Both<br><input type="checkbox"/> Both | 3.2.2.20 - 83<br>9.10.6                                 |  |                        |                   |                              |                               |                               |
| 14   | Mezzanine(s) Area m² <b>N/A</b>  |  |   |   | 3.2.1.1.(3)-(8)<br>9.10.4.1  |                        |                   |                              |                               |                               |
| 15   | Occupant load based on <input type="checkbox"/> m²/person<br>New 4-Pac Portable Classrooms   | <input checked="" type="checkbox"/> design of building<br>Occupancy <b>ASSEMBLY</b>  | Load <b>92</b> persons  | 3.1.17<br>9.9.1.3                                       |  |                        |                   |                              |                               |                               |
| 16   | Barrier-free Design <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | (Explain) Existing School is Barrier Free  |   |   | 3.8<br>9.5.2   |                        |                   |                              |                               |                               |
| 17   | Hazardous Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  |   |   | 3.3.1.2. & 3.3.1.19<br>9.10.1.3(4)<br>3.2.2.20 - 83 & 3.2.1.4<br>9.10.8.<br>9.10.9.              |                        |                   |                              |                               |                               |
| 18   | Required Fire Resistance Rating (FRR)  | Horizontal Assemblies FRR (Hours)<br>Floors - Hours<br>Roof - Hours<br>Mezzanine - Hours<br>FRR of Supporting Members<br>Floors - Hours<br>Roof - Hours<br>Mezzanine - Hours   |   |   | Listed Design No. or Description (SB-2)<br>N/A<br>Listed Design No. or Description (SB-2)<br>N/A |                        |                   |                              |                               |                               |
| 19   | Spatial Separation - Construction of Exterior Walls  |  |   |   | 3.2.3<br>9.10.14   |                        |                   |                              |                               |                               |
|      | Wall   | Area of EBF (m²)   | L.D. (m)  | L/H or H/L  | Permitted Max. % of Openings   | Proposed % of Openings | Min. FRR Required | Listed Design or Description | Construction Type Required    | Cladding Type Required        |
|      | North  | 40.39  | 1.2   | 3:1 TO 10:1   | 7%   | 2.47%                  | 45 min            | Refer to drawings            | Combustible or Noncombustible | Noncombustible Metal Cladding |
|      | South  | 40.39  | 1.2   | 3:1 TO 10:1   | 7%   | 2.47%                  | 45 min            | Refer to drawings            | Combustible or Noncombustible | Noncombustible Metal Cladding |
|      | East   | 46.92  | 2.75  | 3:1 TO 10:1   | 16.46%   | 16.4%                  | 45 min            | Refer to drawings            | Combustible or Noncombustible | Noncombustible Metal Cladding |
|      | West   | 46.92  | 3.85  | 3:1 TO 10:1   | 27.63%   | 16.4%                  | 45 min            | Refer to drawings            | Combustible or Noncombustible | Noncombustible Metal Cladding |
|      | West EX 6-PAC  | 70±  | 8.5   | OVER 10:1   | 100%   | 100% EX                | -                 | Refer to drawings            | Combustible or Noncombustible | Combustible or Noncombustible |
| 20   | Travel Distance to Exits (Refer to Drawings)   |  |   |   |  |                        |                   |                              |                               |                               |
| 21   | Notes:<br>A) No fuel-free appliances to be used in portables. Unit ventilators are electrical powered.<br>B) A portable fire extinguisher to be provided within the new proposed portable<br>C) A sign is to be posted within the new proposed 4-pac portable to restrict to a maximum of 23 persons per classroom |  |   |   |  |                        |                   |                              |                               |                               |

SITE PLAN  
SCALE: 1:500



| NO | REVISIONS                  | DATE       |
|----|----------------------------|------------|
| 1  | ISSUED FOR BUILDING PERMIT | 2025-04-16 |

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.

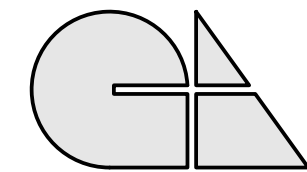


SJB CSS  
4-PAC PORTABLE  
CLASSROOM ADDITION

200 Acadia Dr, Hamilton, ON L8W 1B8

SITE PLAN &  
OBC MATRIX

GRGURIC  
ARCHITECTS  
INCORPORATED

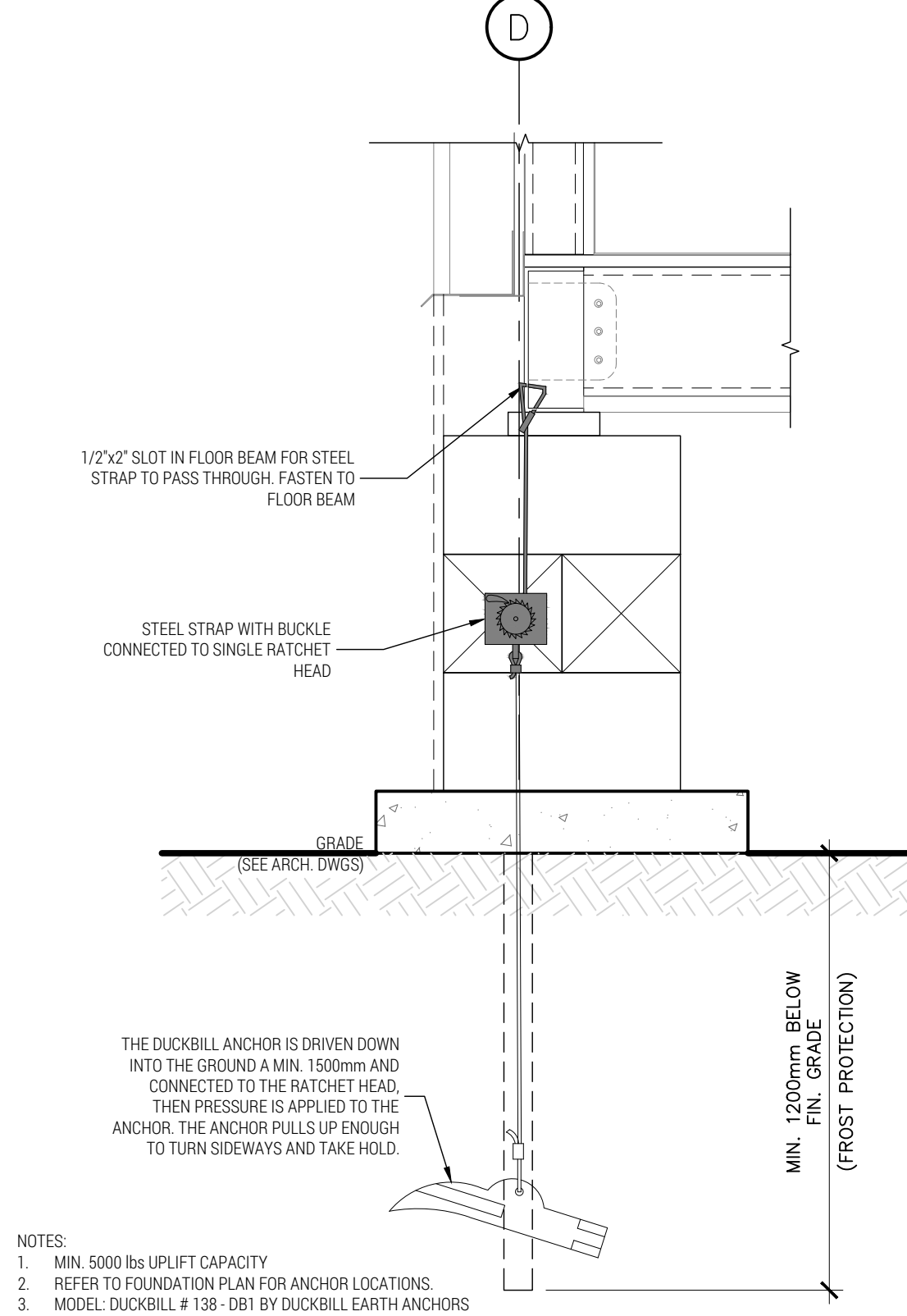
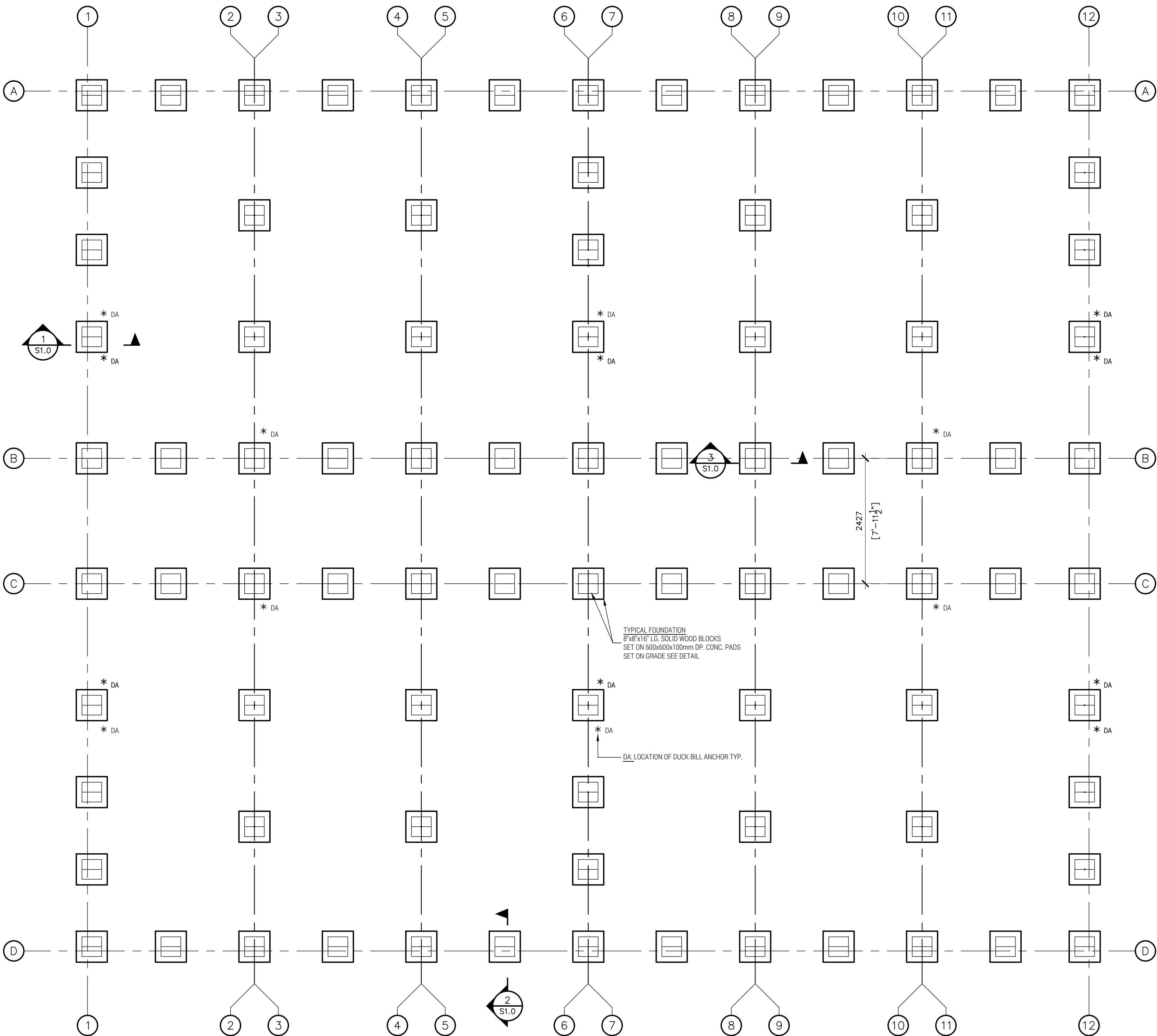


28 KING STREET EAST, UNIT B  
STONEY CREEK, ONTARIO, L8G 1J8  
Tel. 905-664-8735 Fax. 905-664-8737  
Web: www.2gai.com

SCALE:  
AS NOTED  
PROJECT:  
2024-24

DRAWN:  
AH  
CHECKED:  
W.P.  
DRAWING:  
A1.00

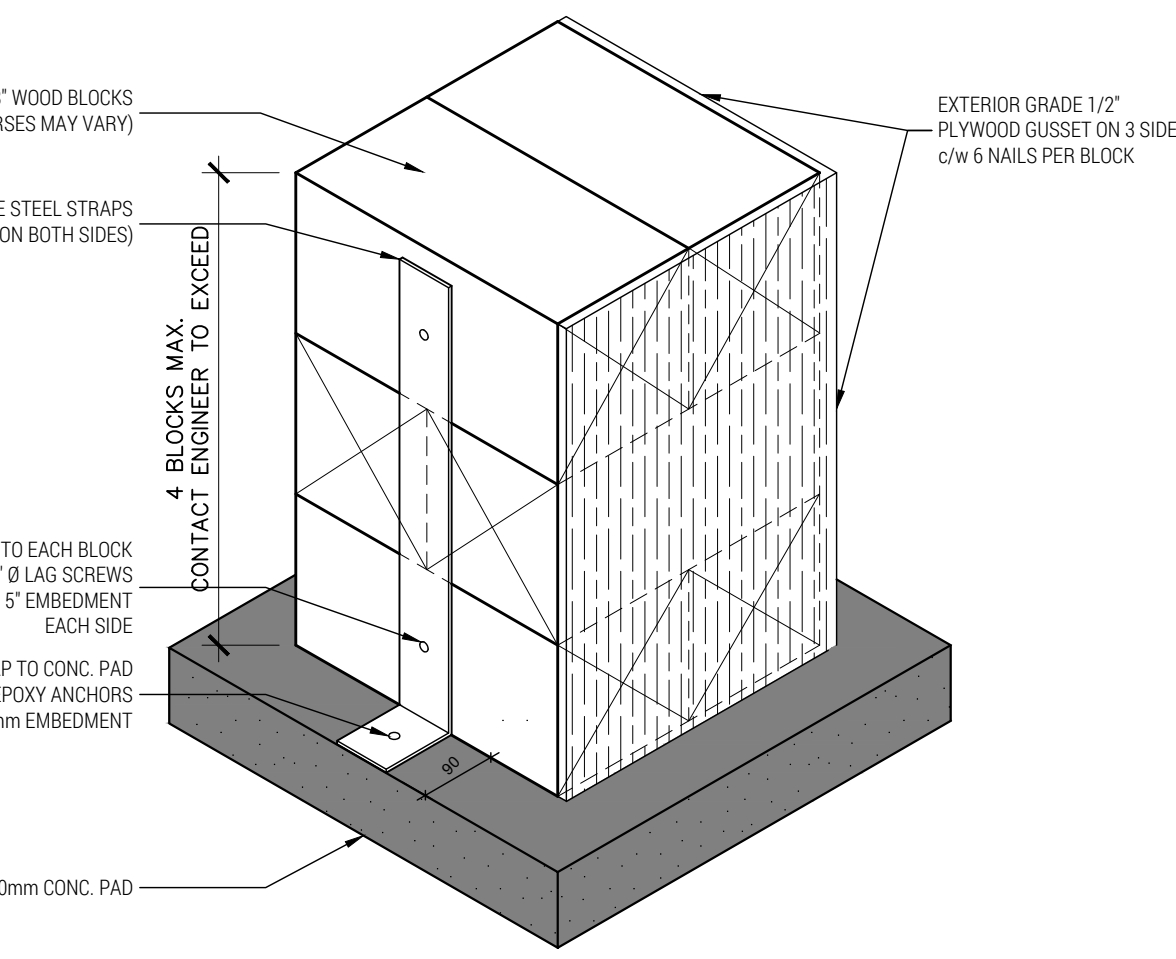
PRINT DATE 04/15/25



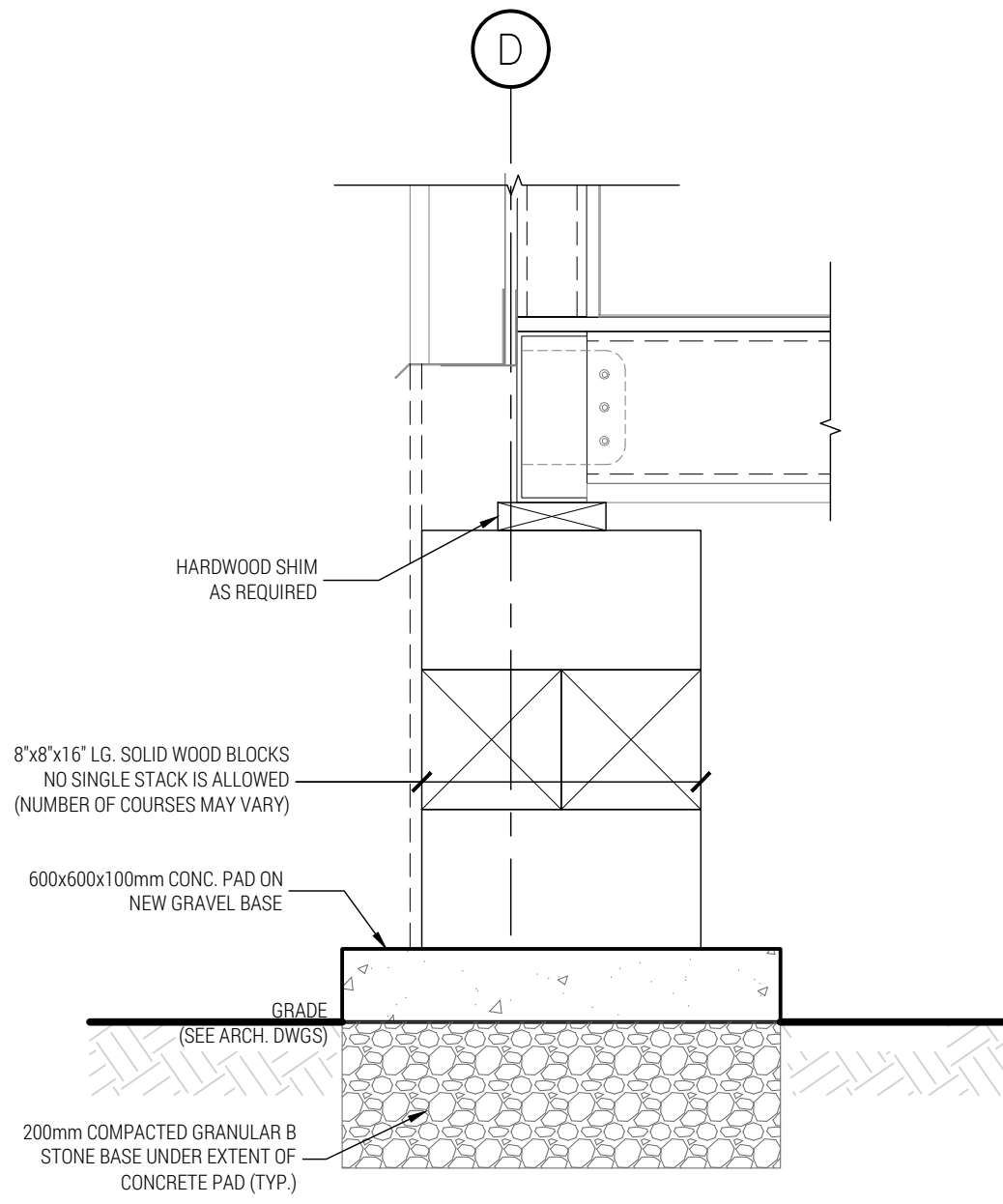
NOTES:  
1. MIN. 5000 lbs UPLIFT CAPACITY  
2. REFER TO FOUNDATION PLAN FOR ANCHOR LOCATIONS.  
3. MODEL DUCKBILL # 138 - DB1 BY DUCKBILL EARTH ANCHORS

SECTION  
1  
S1.0  
1:10

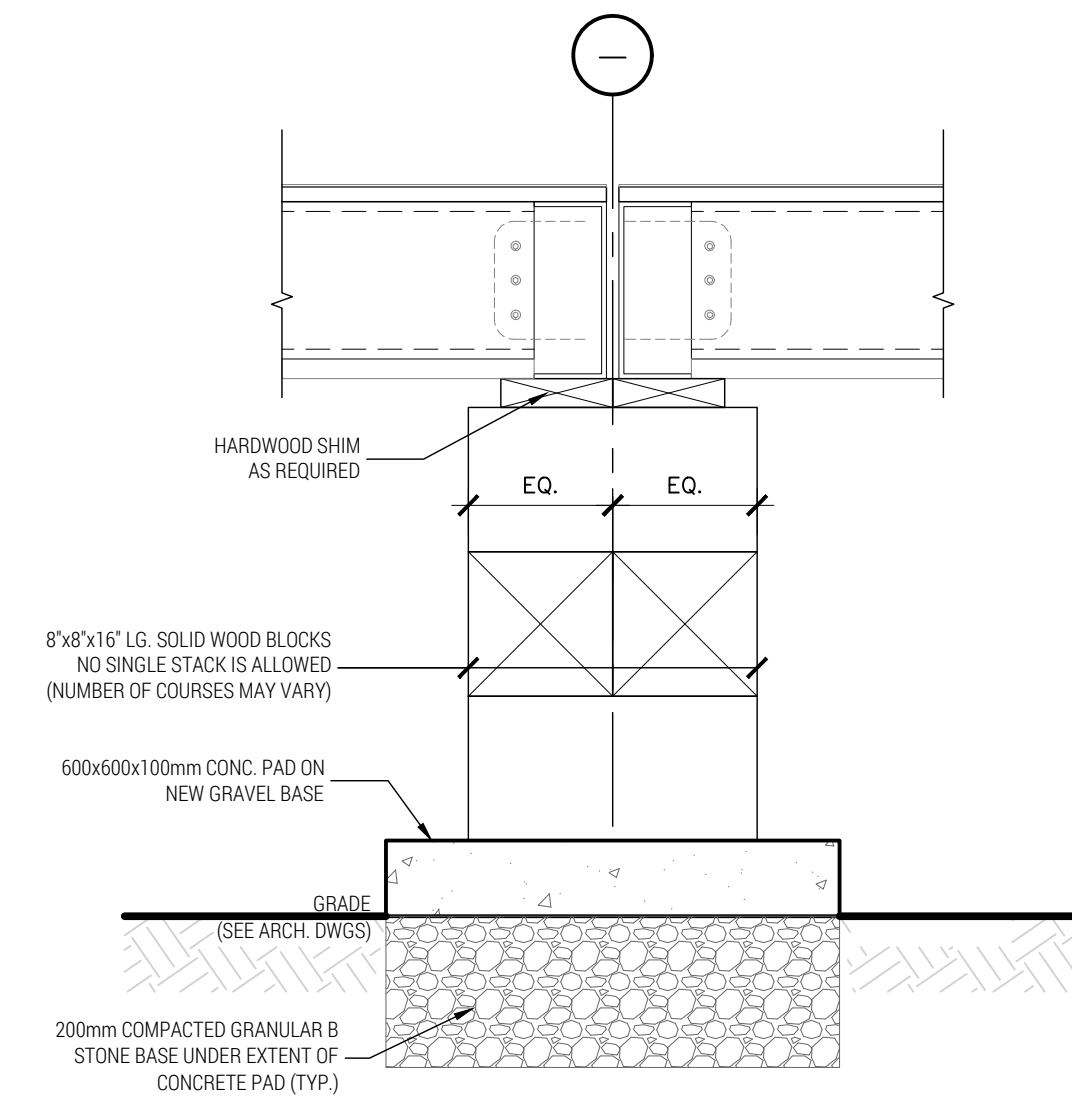
| DESIGN DATA TABLE   |                            |          |
|---|----------------------------|----------|
| BUILDING IMPORTANCE   | NORMAL                     |          |
| LIVE LOAD : 2.4 kPa   |                            |          |
| SPECIFIED SNOW LOADS  |                            |          |
| RAIN LOADING DESIGN DATA (1/50)                                       | 24h RAIN                   | 108mm    |
| SNOW LOADING DESIGN DATA (1/50)                                       | Ss                         | 1.3 kPa  |
|   | Sr                         | 0.4 kPa  |
| BASIC ROOF SNOW LOAD  | S                          | 1.44 kPa |
| ADDITIONAL SNOW ACCUMULATION IS SHOWN ON THE DRAWINGS.                |                            |          |
| SPECIFIED WIND LOADS  |                            |          |
| HOURLY WIND PRESSURE DESIGN DATA (1/50)                               | 0.46 kPa                   |          |
| WIND DESIGN CATEGORY  | CATEGORY 2                 |          |
| TERRAIN TYPE  | 'OPEN'                     |          |
| SPECIFIED EARTHQUAKE LOADS  |                            |          |
| SEISMIC LOADING DESIGN DATA   | Sa (0.2, X <sub>0</sub> )  | 0.391    |
|   | Sa (0.5, X <sub>0</sub> )  | 0.317    |
|   | Sa (1.0, X <sub>0</sub> )  | 0.177    |
|   | Sa (2.0, X <sub>0</sub> )  | 0.0814   |
|   | Sa (5.0, X <sub>0</sub> )  | 0.0209   |
|   | Sa (10.0, X <sub>0</sub> ) | 0.00644  |
|   | PGV (X <sub>0</sub> )      | 0.206    |
|   | PGA ( X <sub>0</sub> )     | 0.247    |
| SITE CLASS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER                   | SITE CLASS                 | 'D'      |
| SEISMIC FORCE MODIFICATION FACTORS FOR SEISMIC FORCE RESISTING SYSTEM | Rd                         | 1.5      |
|   | Ro                         | 1.3      |
| SEISMIC CATEGORY  | SC3                        |          |



TYP. FOUNDATION PIER PLAN DETAIL (ISOMETRIC)  
1:10



SECTION  
2  
S1.0  
1:10



SECTION  
3  
S1.0  
1:10

PLAN  
FOUNDATION PLAN  
1:50

### GENERAL NOTES

- THESE DOCUMENTS ARE TO BE USED ONLY BY THE PARTY WITH WHOM DFE HAS ENTERED INTO A CONTRACT.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN.
- THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2024 ONTARIO BUILDING CODE (OBC) LATEST EDITION INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY. CONSTRUCTION PRACTICES SHALL BE ACCORDING TO THE SAME. USE THE LATEST VERSIONS OF STANDARDS AND CODES LISTED BELOW. ELEMENTS OF STRUCTURES AND NON-STRUCTURAL COMPONENTS AND EQUIPMENT AND THEIR CONNECTIONS TO BE DESIGNED PER OBC LATEST EDITION.
- DO NOT SCALE THESE DRAWINGS. ERRORS MADE BECAUSE OF SCALING THESE DRAWINGS ARE RESPONSIBILITY OF THE PARTY WHO USED THE DRAWINGS.
- WHERE DISCREPANCIES EXIST, THE MOST STRINGENT SHALL PREVAIL. NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- STRUCTURAL DRAWINGS TO BE USED TOGETHER WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.
- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF HOLES, SUMP PITS, TRENCHES, CURBS, BOLTS, SLEEVES, OPENINGS, ETC.
- THE CONTRACTOR SHALL BECOME FAMILIARIZED WITH THE PROJECT ON SITE, INCLUDING EXISTING BRACING, SHORING, SHEET PILING ETC. TO PROTECT EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS - O. REG. 213/01.
- THE CONTRACTOR SHALL PROVIDE DESIGN AND CONSTRUCTION OF HORIZONTAL AND VERTICAL SHORING AND TEMPORARY BRACING AS PER O. REG. 213/01. THE CONTRACTOR SHALL PROVIDE BRACING, SHORING, SHEET PILING ETC. TO PROTECT EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK.
- THE OWNER AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS, AND THEY SHALL INVITE THE ENGINEER TO COMPLETE GENERAL REVIEWS.

NOTES:  
\* INDICATES LOCATION OF DUCKBILL ANCHOR  
ASSUMED SOIL BEARING CAPACITY SLS = 150 kPa (TO BE FIELD VERIFIED)

FOUNDATIONS HAVE BEEN DESIGNED BASE ON DESIGN LOADS PROVIDED BY MODULAR SUPPLIER ON 2025-03-21

### FOUNDATIONS

- ASSUMED SOIL BEARING CAPACITY SLS = 150 kPa, ULS = 225 kPa, (TO BE FIELD VERIFIED BY OTHERS).
- PIER PADS ARE TO BE CHECKED BY OWNER FOR SETTLEMENT AND ADDITIONAL SHIMS PROVIDED AS REQUIRED ON AN ON-GOING BASIS.

### CAST-IN-PLACE CONCRETE AND REINFORCING

- ALL CONCRETE WORK TO CONFORM TO THE LATEST REQUIREMENTS OF CSA STANDARDS A23.1, A23.2 & A23.3.

| CONCRETE MIX PROPERTIES TABLE ABOVE BASEMENT |                             |          |                 |                          |
|--|-----------------------------|----------|-----------------|--------------------------|
| CONCRETE                                     | MIN. 28 DAYS STRENGTH (MPa) | SLUMP mm | AIR CONTENT (%) | MAX. AGGREGATE SIZE (in) |
| EXTERIOR SLAB (UNREINFORCED)                 | 32                          | 80 (430) | 5-8             | 3/4"                     |
|  |                             |          |                 | C-2                      |

### LUMBER

- ALL WOOD SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA STANDARD CAN/CSA 086-09 ENGINEERING DESIGN IN WOOD.
- SAWN LUMBER PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF CSA 0141. ALL SAWN LUMBER IS TO BE SPF GRADE No.1Nc.2 OR BETTER, UNLESS NOTED OTHERWISE.
- NAILS AND SPIKES SHALL CONFORM TO THE CSA STANDARD B111 "WIRE NAILS, SPIKES AND STAPLES".

### ABBREVIATIONS

|          |                  |        |                         |
|----------|------------------|--------|-------------------------|
| AB       | ANCHOR BOLT      | DET.   | DETAIL                  |
| ALT.     | ALTERNATE        | DIA.   | DIAMETER                |
| ALUM.    | ALUMINUM         | DM.    | DIMENSION               |
| ANCH.    | ANCHORS          | DP.    | DEEP                    |
| APPROX.  | APPROXIMATELY    | DWG.   | DRAWING                 |
| ARCH.    | ARCHITECTURAL    | DWL.   | DOWEL                   |
| B.F.     | BOTTOM FACE      | E.F.   | EACH FACE               |
| B.PL.    | BASE PLATE       | E.J.   | EXPANSION JOINT         |
| BLK.     | BLOCK            | E.L.   | ELECTRICAL EMBEDMENT    |
| BM.      | BEAM             | ELEC.  | ELECTRICAL              |
| BOT.     | BOTTOM           | EMBED. | EMBEDMENT               |
| BRG.     | BEARING          | E.S.   | EACH SIDE               |
| BT.PL.   | BENT PLATE       | E.W.   | EACH WAY                |
| C.W.     | COMPLETE WITH    | EA.    | EACH                    |
| C/C      | CENTRE TO CENTRE | EQ.    | ELEVATION               |
| CONJ.    | CONTROL JOINT    | EXTG.  | EXISTING                |
| C.L.     | CONCRETE LINTEL  | F.F.   | FACE TO FACE            |
| CLG.     | CEILING          | FIN.   | FINISHED                |
| COL.     | COLUMN           | FLR.   | FLOOR                   |
| CONC.    | CONCRETE         | FNDR.  | FOUNDATION              |
| CONN.    | CONNECTION       | FTG.   | FOOTING                 |
| CONSTRN. | CONSTRUCTION     | Ga.    | GAUGE                   |
| CONT.    | CONTINUOUS       | GALV.  | GALVANIZED              |
| DEMO.    | DEMOLITION       | GRD.   | GRADE                   |
|          |                  | H.D.   | HEAVY DUTY              |
|          |                  | H.D.G. | HOT DIPPED GALVANIZED   |
|          |                  | H.E.F. | HORIZONTAL EACH FACE    |
|          |                  | H.O.F. | HORIZONTAL OUTSIDE FACE |
|          |                  | H.P.   | HIGH POINT              |
|          |                  | HSS    | HOLLOW STRUCTURAL STEEL |

### ABBREVIATIONS

|        |                      |         |                        |
|--------|----------------------|---------|------------------------|
| HD.    | HOOKED               | R.C.    | REINFORCED CONCRETE    |
| ID.    | INSIDE DIAMETER      | R.D.    | ROUGH OPENING          |
| KN.    | KILONEWTON           | R.O.    | ROUGH OPENING          |
| KPa    | KILOPASCAL           | HD.     | REFERENCE              |
| L      | ANGLE                | REINF.  | REINFORCED             |
| L.L.H. | LONG LEG HORIZONTAL  | REQ'D   | REQUIRED               |
| L.L.V. | LONG LEG VERTICAL    | S.C.    | SAW CUT                |
| L.P.   | LOW POINT            | S.D.F.  | STEP DOWN FOOTING      |
| LG.    | LONG                 | SECT.   | SECTION                |
| L.H.   | LONG LEG HORIZONTAL  | S.L.H.  | SHORT LEG HORIZONTAL   |
| L.V.   | LONG LEG VERTICAL    | S.L.V.  | SHORT LEG VERTICAL     |
| MIN.   | MINIMUM              | S.O.G.  | SLAB ON GRADE          |
| MISC.  | MISCELLANEOUS        | STL.    | STEEL                  |
| METL.  | METAL                | STIFF.  | STIFFENER              |
| mm     | MILLIMETRE           | STRUCT. | STRUCTURAL             |
| MPa    | MEGAPASCAL           | T.O.    | TOP OF                 |
| N.C.   | NOT IN CONTRACT      | T.L.L.  | TOP LOWER LAYER        |
| N.T.S. | NOT TO SCALE         | T.U.L.  | TOP UPPER LAYER        |
| No.    | NUMBER               | U.N.O.  | UNLESS NOTED OTHERWISE |
| O.C.   | ON CENTRE            | U/S     | UNDERSIDE              |
| OUTD.  | OUTSIDE DIAMETER     | VERT.   | VERTICAL               |
| O.H.   | OVERHEAD             | V.E.F.  | VERTICAL EACH FACE     |
| OWSJ.  | OPEN WEB STEEL JOIST | V.I.F.  | VERTICAL INSIDE FACE   |
| PARTN. | PARTITION            | V.O.F.  | VERTICAL OUTSIDE FACE  |
| PL.    | PLATE                | W.P.    | WORKING POINT          |
|        |                      | W.W.M.  | WELEDED WIRE MESH      |
|        |                      | @       | SPACED AT              |

NOTE TO CONTRACTOR:  
DO NOT SCALE DRAWINGS. CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.  
THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT D.F. ENGINEERING INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY D.F. ENGINEERING INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR BUILDING PERMIT 1 2025-04-08

**DFE**  
**DOYCH & FILO ENGINEERING INC.**  
Structural Engineers  
10013262  
2025-04-08  
PROVINCE OF ONTARIO  
Phone: (647) 836-4825 / (905) 719-1492

PROJECT  
SJB CSS  
PROPOSED 4-PAC PORTABLE  
CLASSROOM ADDITION  
200 ACADIA DR., HAMILTON, ON, L8W 1B8  
DRAWING  
GENERAL NOTES  
GROUND FLOOR  
PLANS, SECTION AND  
DETAILS  
Design By: TD/AF Date: 2025-03-20  
Project No.: 24112903  
Drawn By: AF Drawing No.:  
Scale: AS NOTED S1.0

ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, THE LATEST ONTARIO ELECTRICAL SAFETY CODE, ONTARIO BUILDING CODE AND THE ONTARIO FIRE CODE.
2. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH CAN/ULC-S524M AND SHALL BE TESTED IN ACCORDANCE WITH CAN/ULC S537M. ALL WORK SHALL BE PERFORMED BY AN APPROVED / CERTIFIED CONTRACTOR. ALL FIRE ALARM INSTALLATIONS AND EQUIPMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CAN/ULC S-524, CAN/ULC-S525, CAN/ULC-S526, CAN/ULC-S527, CAN/ULC-S528, CAN/ULC-S529, CAN/ULC-S530, AND SUBJECT TO THE LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTING AND VERIFICATION SHALL BE IN CONFORMANCE WITH CAN/ULC S-537. PROVIDE FINAL ACCEPTANCE, VERIFICATION TEST / REPORTS & CERTIFICATION OF ENTIRE SYSTEM. SUPPLY AND INSTALL ALL NECESSARY EQUIPMENT & MATERIALS TO ACCOMMODATE DEVICES WIRING, ETC. ALL WORK SHALL BE PERFORMED BY AN APPROVED / CERTIFIED CONTRACTOR.
3. ALL EMERGENCY/EXIT LIGHTING EQUIPMENT TO MEET CSA C22.2 NO.141-M.
4. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE ALL ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND THE SPECIFICATIONS. ALL EQUIPMENT AND LABOUR TO BE WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK AS OUTLINED IN THE CONTRACT DOCUMENTS.
5. PORTABLE SUPPLIER TO PROVIDE ENGINEERED STAMPED AND SIGNED DRAWINGS FOR PERMIT APPLICATION AND SHALL BE RETAIN A LICENSED ELECTRICAL CONTRACTOR TO PERFORM THE WORK AND ARRANGE AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND VERIFICATIONS AS REQUIRED BY CODE INCLUDING ELECTRICAL SAFETY AUTHORITY INSPECTION, FIRE ALARM SYSTEM RE-VERIFICATION BY EQUIPMENT MANUFACTURER, FIRE MARSHALS TESTING AND LOCAL BUILDING DEPARTMENT REVIEW.
6. CONTRACTOR TO PROVIDE FOUR (4) SETS OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS FOR SCHOOL BOARDS UPON COMPLETION OF WORK.
7. CONTRACTOR SHALL PROVIDE TRAINING BY ALL EQUIPMENT SUPPLIERS TO INSTRUCT SCHOOL BOARD DESIGNATED PERSONNEL ON THE CARE, OPERATION, TESTING AND MAINTENANCE OF NEW EQUIPMENT AND SYSTEMS.
8. APPROPRIATE SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT AND CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO ORDER PLACEMENT.
9. ALL CUTTING/PATCHING FOR ELECTRICAL WORK SHALL BE BY DESIGN-BUILDER. THE REPAIR OF ALL OPENINGS MADE IN FIRE SEPARATIONS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. FILL ALL OPENINGS WITH APPROPRIATE LISTED FIRE STOP MATERIAL. (SPRAY FOAM PRODUCTS ARE NOT ALLOWED). ELECTRICAL CONTRACTOR TO LOCATE AND SIZE ALL OPENINGS REQUIRED.
10. VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
11. COORDINATE WORK WITH ALL OTHER TRADES.
12. ALL WALL MOUNTED POWER, DATA AND TELEPHONE OUTLETS SHALL BE MOUNTED AT BUILDING STANDARD HEIGHT. UNLESS OTHERWISE SHOW ON ARCHITECTURAL DRAWINGS. COLOR AND FINISH OF DEVICES AND PLATES SHALL MATCH EXISTING IN FINISHED AREA, UNLESS OTHERWISE SELECTED BY THE ARCHITECT.
13. ALL WIRING SHALL BE RUN IN CONDUIT OR CABLE TO SUIT THE APPLICATION. ALL CONDUIT TO BE EMT CONDUIT C/W STEEL BOXES IN CONCEALED LOCATIONS & SERVICE ROOMS. WHITE WIRE MOLD C/W WIRE MOLD BOXES IF EXPOSED IN STUDENT OR TEACHER AREAS AND PVC DB TYPE II FOR UNDERGROUND APPLICATIONS. ALL CONDUIT SHALL BE 3/4" MINIMUM.
14. CONCEAL NEW WIRING WHEREVER POSSIBLE. AC TYPE MAY BE USED IN CEILING SPACES, WALL CHASES ETC. SHORT RUN FROM OUTLET BOX TO DEVICE ONLY. ANY EXPOSED WIRING IN CEILING SPACES SHALL BE CSA FT6 RATED. SURFACE MOUNTED WORK IN ALL AREAS SHALL BE MINIMIZED. SEEK ARCHITECT'S APPROVAL.
15. ALL WIRE AND CABLE SHALL BE XLPE, RW90 OR RVU90 FOR UNDERGROUND APPLICATIONS. COPPER WITH 600V INSULATION SIZED ACCORDING TO THE APPLICATION. MINIMUM SIZE #12 AWG FOR POWER C/W CSA FT6 LABELED PLENUM RATED JACKET IF RUN EXPOSED IN CEILING SPACES. COLOR OF INSULATION TO MATCH EXISTING INSTALLATION.
16. CONDUIT INSTALLATION SHALL PROVIDE GROUND CONTINUITY. PROVIDE SEPARATE GROUND CONDUCTORS WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED BY CODE.
17. A UPDATED AND/OR COMPLETE TYPEWRITTEN PANEL DIRECTORY SHALL BE PROVIDED FOR ALL PANELBOARDS. LABEL ALL ELECTRICAL EQUIPMENT WITH MECHANICALLY FASTENED LAMACOID NAMEPLATES. WHITEWITH BLACK LETTERS DEPICTING VOLTAGE, PHASE, FEED BREAKER NUMBER & LOCATION AND DEVICE NAME.
18. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE QMQB, 600 VOLTS AND SHALL BE INDIVIDUALLY MOUNTED IN A NEMA 1 TYPE ENCLOSURE. SIZE SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. SWITCH SHALL BE SUITABLE AS SERVICE ENTRY EQUIPMENT. SWITCHES SHALL BE BY SQUARE D OR APPROVED EQUAL.
19. ALL FUSES SHALL BE BUSSMAN, CURRENT LIMITING TYPE LPS-RK, SIZE AS INDICATED ON THE CONTRACT DRAWINGS.
20. PANELBOARD SHALL BE CIRCUIT BREAKER DISTRIBUTION TYPE RATED 208 VOLTS, 400 AMPS, 3 PHASE, 4-WIRE, COPPER BUSES WITH BOLT ON MULTI-POLE CIRCUIT BREAKERS IN NEMA 3X ENCLOSURE. INTERRUPTING RATING SHALL BE 18,000 AMPERES. SYMMETRICAL. PROVIDE 400A, 3-POLE MAIN BREAKER, SIX(6) 100A, 3-POLE BRANCH BREAKER AND FOUR(4) 3-POLE SPACES FOR FUTURE BREAKERS.
21. CONDUCTOR SIZES ARE BASED ON CONNECTED EQUIPMENT HAVING A TEMPERATURE MARKING OF 75°C OR HIGHER. WHERE EQUIPMENT DOES NOT HAVE A TEMPERATURE MARKING OR IT HAS A MARKING LOWER THAN 75°C, INCREASE THE SIZE OF THE CONDUCTORS ACCORDINGLY, TO THE SATISFACTION OF THE CONSULTANT.
22. FOR WIRES IN CONDUIT, CONDUCTOR SIZES ARE BASED ON NOT MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A CONDUIT. WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A CONDUIT INCREASE THE CONDUCTOR SIZE ACCORDINGLY, TO THE SATISFACTION OF THE CONSULTANT.
23. TRENCH BACKFILLING: PROVIDE A BASE LAYER OF SAND AT LEAST 100MM (4") DEEP. TAMP SAND AROUND AND OVER CONDUITS, DUCTS AND CABLES. IN 150 MM (6") LAYERS TO A HEIGHT OF AT LEAST 300 MM (12") ABOVE TOP OF CONDUITS, DUCTS AND CABLES. COMPACT EACH SAND LAYER. FILL REMAINDER OF TRENCH IN 300 MM (12") LAYERS WITH GRANULAR 'A' MATERIAL, FREE FROM STONE. COMPACT EACH LAYER TO PREVENT UNDUE SETTLEMENT. DO NOT USE MATERIAL FROM EXCAVATION FOR BACKFILLING.

24. **POWER:** PROVIDE NEW 100A - 600V/3PH CIRCUIT FROM THE EXISTING SWITCHBOARD '600-1' IN THE MAIN ELECTRICAL ROOM OF THE MAIN SCHOOL. TO SUPPLY NEW 75KVA TRANSFORMER AND NEW EXTERIOR MOUNTED PANELBOARD 'PP-1'. PROVIDE NEW FEEDERS FROM NEW PANEL 'PP-1' TO EACH CLASSROOM PANEL. REFER TO DRAWING E1.01 AND TRENCH DETAILS FOR MORE INFORMATION.
25. **LIGHTING:** NEW LIGHT FIXTURES WITHIN THE PORTABLES TO BE SUPPLIED AND INSTALLED BY PORTABLE SUPPLIER.
26. **EMERGENCY/EXIT LIGHTING:** NEW EXIT AND EMERGENCY LIGHTING UNITS TO BE SUPPLIED AND INSTALLED BY PORTABLE SUPPLIER.
27. **FIRE ALARM:** PROVIDE NEW MIRCOM FIRE ALARM HORN/STROBE COMBOS, HEAT DETECTORS AND PULL STATIONS TO BE COMPATIBLE WITH THE EXISTING MIRCOM PANEL. LOCATED IN CARETAKER OFFICE IN THE MAIN SCHOOL. PROVIDE NEW CONDUIT AND FEEDER FROM EXISTING 6-PAK TO NEW 4-PAK PORTABLE LOCATION. PROGRAM AND ADD ALL EQUIPMENT TO CONTROL THE NEW DEVICES. PROVIDE SECUREX TYPE CABLE WIRING AS REQUIRED TO CONNECT DEVICES TO THE EXISTING FIRE ALARM SYSTEM. RETAIN MIRCOM/ HAMILTON FIRE CONTROL TO RE-VERIFY FIRE ALARM SYSTEM, UPDATE PASSIVE GRAPHIC DIAGRAMS AND FOR DEVICE SPECIFICATIONS AND REQUIREMENTS. PROVIDE NEW UNDERGROUND CONDUIT DEDICATED FOR THE FIRE ALARM FROM THE EXTERIOR OF THE EXISTING 6-PAK PORTABLE TO NEW 4-PAK PORTABLE. NEW UNDERGROUND CONDUITS TO BE STUBBED UP AT THE PORTABLE LOCATION. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS. CONFIRM ALL REQUIREMENTS ON SITE PRIOR TO TENDERING.
28. **PUBLIC ADDRESS:** PROVIDE NEW UNDERGROUND CONDUIT FROM THE EXTERIOR OF THE MAIN SCHOOL TO THE NEW 4-PAK PORTABLE. PROVIDE NEW WIRING FROM THE MAIN PA PANEL IN THE MAIN OFFICE OF THE MAIN SCHOOL. NEW UNDERGROUND CONDUIT TO BE STUBBED UP AT THE PORTABLE LOCATIONS AS REQUIRED. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS. CONTRACTOR TO PROVIDE THE FOLLOWING:
- PROVIDE TWO (2) NEW 16 PORT CAREHAWK SWITCHES IN NEW COMMUNICATION CLOSET, ONE FOR SPEAKERS, THE SECOND FOR PHONES.
  - PROVIDE TWO (2) CAT5 CABLES FROM THE PA MAIN CONTROL PANEL INSIDE THE EXISTING MAIN SCHOOL TO THE COMMUNICATIONS CLOSET, ONE TERMINATED IN THE SPEAKER SWITCH AND THE SECOND TERMINATED IN THE PHONE SWITCH. CONFIRM ROUTING ON SITE PRIOR TO TENDERING.
  - PROVIDE NEW SPEAKERS IN EACH CLASSROOM AND CORRIDORS, EACH TO BE TERMINATED TO THE NEW DEDICATED CAREHAWK SWITCH IN THE COMMUNICATION CLOSET. PROVIDE NEW CAT 5E CABLE PER SPEAKER BACK TO NEW CAREHAWK SWITCH.
  - PROVIDE NEW PHONES IN EACH CLASSROOM. EACH TO BE TERMINATED TO THE NEW DEDICATED CAREHAWK SWITCH IN THE COMMUNICATION CLOSET. PROVIDE NEW CAT 5E CABLE PER PHONE BACK TO RESPECTIVE CAREHAWK SWITCH.
  - COORDINATE AND CONFIRM ALL REQUIREMENTS AND DEVICE SPECIFICATIONS WITH HAMILTON VIDEO AND SOUND (HVS). RETAIN HVS TO PROGRAM THE NEW SPEAKERS AND FINAL TESTING.

29. **DATA:** PROVIDE NEW DATA SERVICE FROM THE EXISTING IT RACK IN THE EXISTING 6-PAK PORTABLE. ALL NEW DATA OUTLETS IN THE CLASSROOMS OF THE NEW 4-PAK PORTABLE TO BE TERMINATED IN NEW PATCH PANELS IN THE NEW COMMUNICATION CLOSET IT RACK. REFER TO PORTABLE SUPPLIER FOR ALL DATA OUTLET LOCATIONS. PROVIDE NEW UNDERGROUND CONDUIT FROM THE EXTERIOR OF THE EXISTING 6-PAK TO THE NEW 4-PAK PORTABLE. FOR NEW DATA LINES. NEW UNDERGROUND CONDUIT TO BE STUBBED UP AT THE PORTABLE LOCATION. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS.

29.1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH DATA SUBCONTRACTOR AND BOARD'S INFORMATION & COMMUNICATION TECHNOLOGY DEPARTMENT DAVID KNIGHT (905 525-2930 x 2990, dknight@hwnsdb.on.ca) PRIOR TO INSTALLING ANY OUTLETS, CONDUIT ETC.

29.2. APPROVED CONTRACTORS

- 29.2.1. THE FOLLOWING SCHOOL BOARD APPROVED NETWORK AND DATA SUBCONTRACTORS SHALL PROVIDE BIDS TO THE ELECTRICAL CONTRACTORS FOR THIS PROJECT:

29.2.1.1. SECURE SOLUTIONS










TONY WARD  
905-869-0999  
TONY@SECURESOLUTION.CA

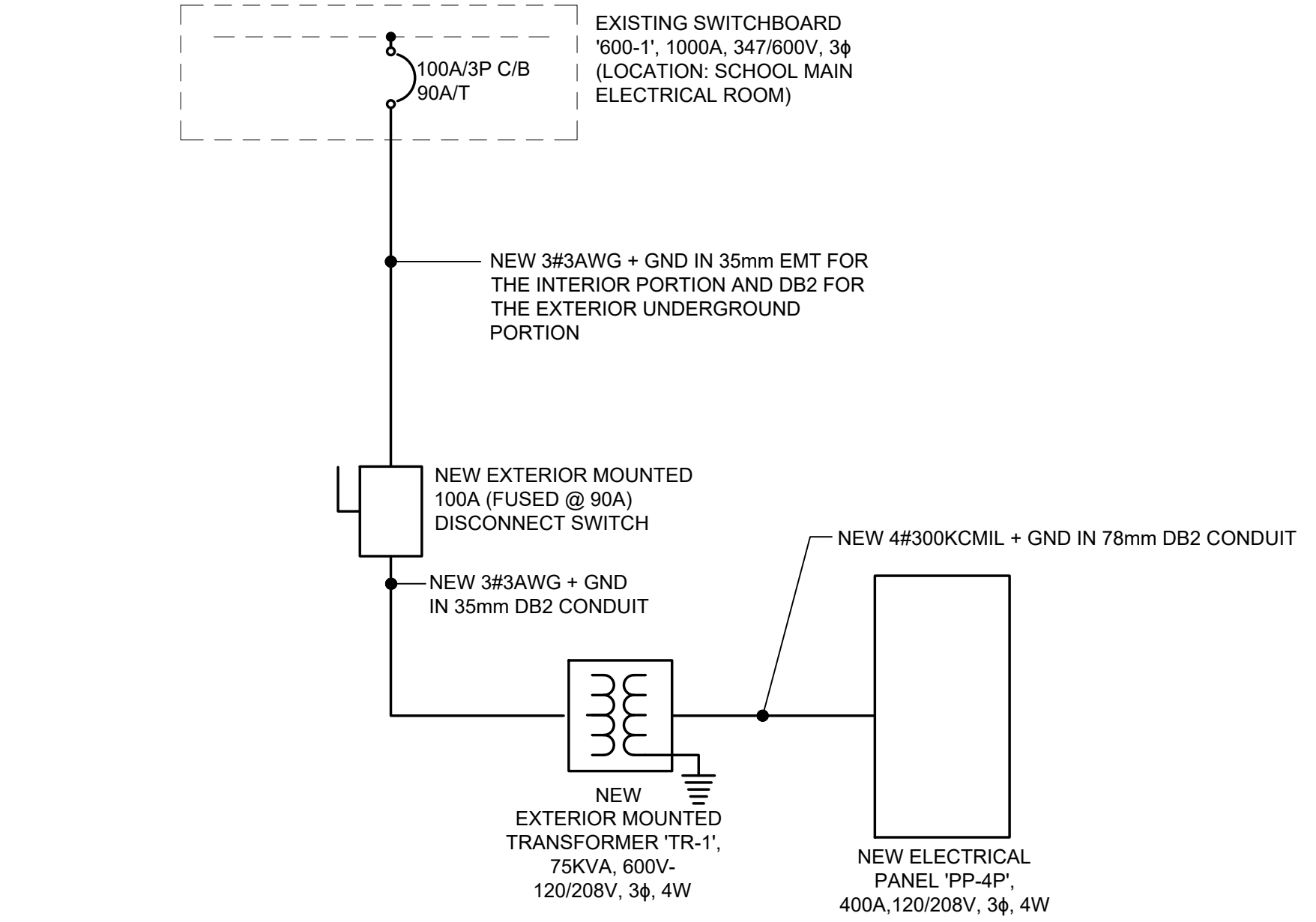
29.2.1.2. NETWORK ACP

CARL STARKES  
905-467-0898  
CSTARKES@NETWORKACP.COM

29.2.1.3. 3TEC INC.

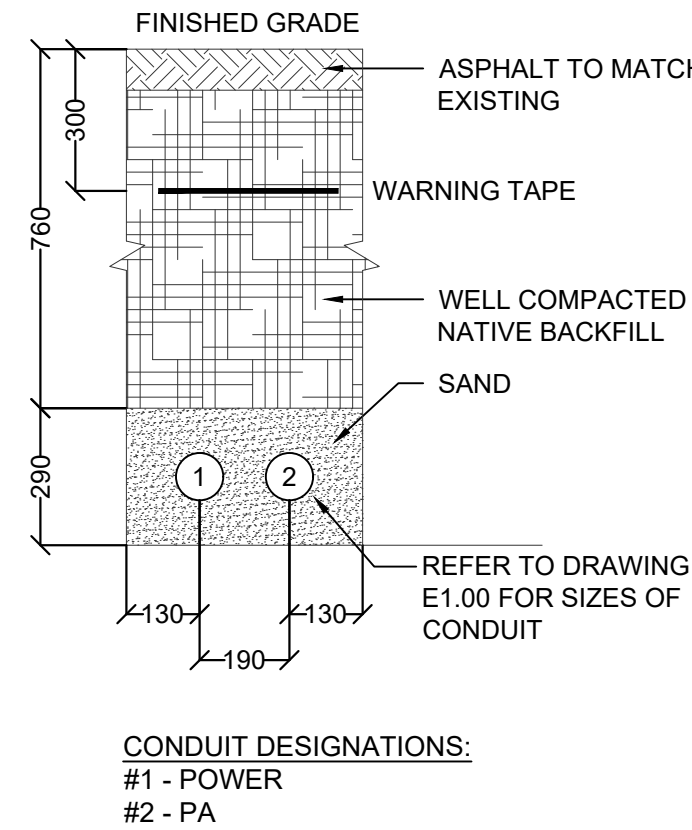
SCOTT WAINWRIGHT  
905-573-3832  
SCOTT@3TEC.CA

| ELECTRICAL LEGEND   |   | ABBREVIATIONS |                               |
|---|---|---------------|-------------------------------|
|  | FLUSH MOUNTED, SURFACE MOUNTED PANELBOARDS.   | AC            | ABOVE COUNTER                 |
|  | FIRE ALARM PULL STATION   | AFF           | ABOVE FINISHED FLOOR          |
|  | FIRE ALARM BELL   | A/T           | TRIP AMPS FOR CIRCUIT BREAKER |
|  | FIRE ALARM HEAT DETECTOR  | C             | CONDUIT                       |
|  | FIRE ALARM SMOKE DETECTOR   | C/B           | CIRCUIT BREAKER               |
|  | PA SPEAKER  | E/EX/EXIST    | EXISTING TO REMAIN            |
|  | PA TELEPHONE  | EC            | EMPTY CONDUIT                 |
|  | COMPUTER SYSTEM HUB LOCATION. CONTRACTOR TO BRING ALL CAT6 NETWORK CABLE RUNS TO THIS LOCATION. CONFIRM LOCATION WITH CLIENT PRIOR TO INSTALLATION. | EMT           | ELECTRICAL METALLIC TUBING    |
|  | DUPLEX RECEPTACLE 5-15R (OR AS NOTED), 120VAC, 15A/1P.  | FA            | FIRE ALARM                    |
|   |   | G/GND/GND     | GROUND                        |
|   |   | HP            | HYDRO POLE                    |
|   |   | MTD           | MOUNTED                       |
|   |   | N/NEW         | NEW EQUIPMENT                 |
|   |   | NIC           | NOT IN CONTRACT               |
|   |   | NTS           | NOT TO SCALE                  |
|   |   | OC            | ON CENTER                     |
|   |   | P             | POLES                         |
|   |   | PH            | PHASE                         |
|   |   | STD           | STANDARD                      |
|   |   | SWBD          | SWITCHBOARD                   |
|   |   | REL           | TO BE RELOCATED               |
|   |   | REM           | TO BE REMOVED                 |
|   |   | TYP           | TYPICAL                       |
|   |   | UNF           | UNFUSED                       |
|   |   | UON           | UNLESS OTHERWISE NOTED        |
|   |   | W             | WIRE                          |
|   |   | WP            | WEATHERPROOF                  |

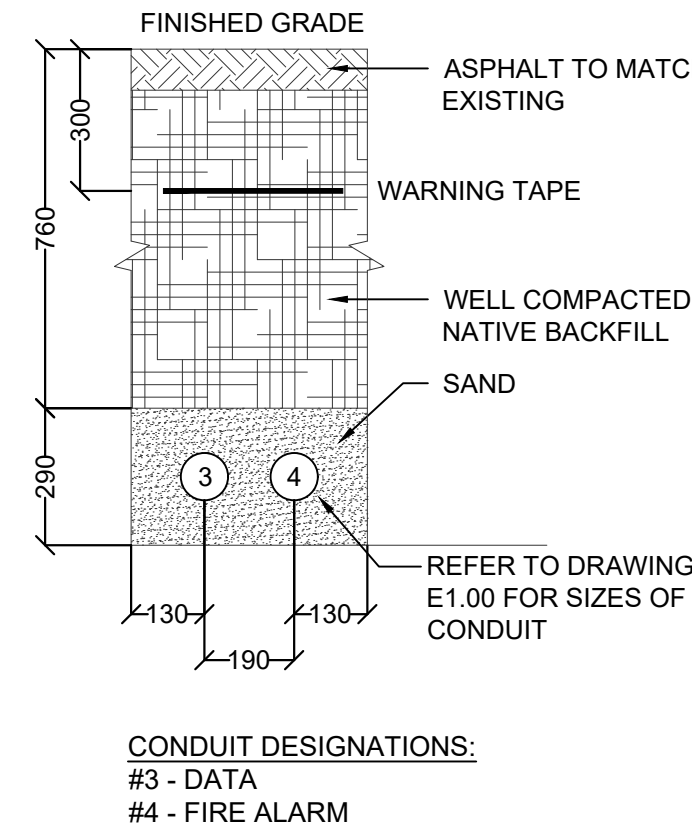


1 SINGLE LINE DIAGRAM  
E0.01 SCALE: N.T.S.

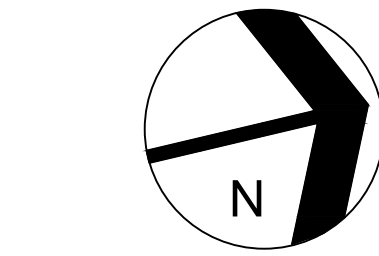
| NEW PANEL 'PP-4P'   |       |      |     |     |     |    |     |      |     |      |           |                     |
|---|-------|------|-----|-----|-----|----|-----|------|-----|------|-----------|---------------------|
| RATING: 400A-120V/208V/3PH/4W   |       |      |     |     |     |    |     |      |     |      |           |                     |
| CIRCUIT DESIGNATION   | BKR   | LOAD |     |     | NO. |    | NO. | LOAD |     |      | BKR       | CIRCUIT DESIGNATION |
|   |       | A    | B   | C   |     |    |     | A    | B   | C    |           |                     |
| CLASSROOM #1  | 2/125 | ---  |     |     | 1   |    | 2   | ---  |     |      | 2/125     | CLASSROOM #2        |
|   |       |      | --- |     | 3   |    | 4   |      | --- |      |           |                     |
| CLASSROOM #3  | 2/125 |      |     | --- | 5   | 6  |     |      | --- |      | 2/125     | CLASSROOM #4        |
|   |       | ---  |     |     | 7   | 8  | --- |      |     |      |           |                     |
| SPACE   | ---   |      |     |     | 9   | 10 |     | ---  |     | 1/20 | IT RACK   |                     |
| SPACE   | ---   |      |     | --- | 11  | 12 |     |      | --- | 1/20 | PA SYSTEM |                     |
| SPACE   | ---   | ---  |     |     | 13  | 14 | --- |      |     | ---  | SPACE     |                     |
| SPACE   | ---   |      | --- |     | 15  | 16 |     | ---  |     | ---  | SPACE     |                     |
| SPACE   | ---   |      |     | --- | 17  | 18 |     |      | --- | ---  | SPACE     |                     |
| ELECTRICAL CONTRACTOR SHALL BALANCE PANEL SCHEDULE'S AND ELECTRICAL EQUIPMENT TO 10% (+) BETWEEN PHASES:<br>A/B, B/C, A/C REGARDLESS OF CIRCUITING INDICATED. |       |      |     |     |     |    |     |      |     |      |           |                     |



2 ELECTRICAL DUCTBANK DETAIL #1  
E0.01 SCALE: N.T.S.



3 ELECTRICAL DUCTBANK DETAIL #2  
E0.01 SCALE: N.T.S.



| NO | REVISIONS                | DATE       |
|----|--------------------------|------------|
| 2  | RE-ISSUED FOR PERMIT     | 2025-04-17 |
| 1  | ISSUED FOR PERMIT/TENDER | 2025-04-14 |

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.



SJB CSS  
4-PAC PORTABLE  
CLASSROOM ADDITION

200 Acadia Dr, Hamilton, ON L8W 1B8

ELECTRICAL  
SPECIFICATIONS,  
SCHEDULES AND  
DETAILS

GRGURIC  
ARCHITECTS  
INCORPORATED



28 KING STREET EAST, UNIT B  
STONE CREEK, ONTARIO, L8G 1J8  
Tel. 905-664-8735 Fax. 905-664-8737  
Web: www.2gai.com

|                         |                          |
|-------------------------|--------------------------|
| SCALE:<br>AS NOTED      | PROJECT:<br><b>24056</b> |
| START DATE:<br>APR 2025 |                          |
| DRAWN<br>J.M.           | DRAWING:<br><b>E0.01</b> |
| CHECKED<br>J.M.         |                          |
| PRINT DATE              | 04/17/25                 |

- (A) EXISTING 1000A - 600V/3PH SWITCHBOARD '600-1' LOCATED IN MAIN ELECTRICAL ROOM TO REMAIN AS IS. PROVIDE ONE (1) NEW 100/3P BREAKER FOR NEW 4-PAK POWER. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION. CONFIRM EXACT ROUTING ON SITE PRIOR TO TENDERING.
- (B) EXISTING MIRCOM FIRE ALARM PANEL TO REMAIN AS IS. PROVIDE NEW WIRING FOR NEW 4-PAK PORTABLE DEVICES CONNECTED TO EXISTING PORTABLE ZONE. NEW WIRING TO BE ROUTED FROM EXISTING 6-PAK CIRCUITRY TO NEW 4-PAK PORTABLES. PROVIDE BOOSTER PANEL IF REQUIRED FOR NEW DEVICES IN NEW 4-PAK
- (C) EXISTING DJUKANE CAREHAWK PA MAIN PANEL IN STAFF ROOM TO REMAIN AS IS. ALL NEW CABLES FOR THE PA EQUIPMENT IN THE NEW 4-PAK PORTABLES TO BE TERMINATED IN MAIN PANEL. NEW WIRING TO BE ROUTED FROM PANEL THROUGH THE CEILING SPACE OF THE CORRIDOR ON THE GROUND FLOOR.
- (D) EXISTING IT RACK LOCATED IN EXISTING CLOSET OF EXISTING 6-PAK. PROVIDE NEW WIRING FROM THIS EXISTING SWITCH TO NEW 4-PAK IT RACK. COORDINATE EXACT LOCATION OF IT RACK IN 4-PAK WITH WCHDSB.

① PROVIDE NEW UNDERGROUND DUCTBANK FROM THE EXISTING OF THE MAIN SCHOOL STUBBED UP IN NEW PORTABLE AS INDICATED:

- 1 - 53mm (2") DIA. DB2 CONDUIT FOR PORTABLE POWER.
- 1 - 53mm (2") DIA. DB2 FOR PORTABLE P/A.

PROVIDE NEW PULL STRINGS FOR EACH RESPECTIVE CONDUIT FOR PULLING OF NEW CABLES. CONTRACTOR TO PROVIDE LOCATES OF THE AREA TO ENSURE NO DISRUPTION TO EXISTING SERVICES. REFER TO DETAIL 2/E0.01 FOR MORE INFORMATION.

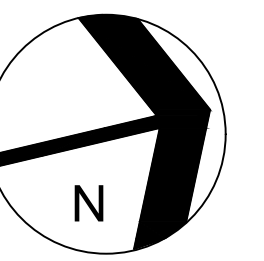
② PROVIDE NEW UNDERGROUND DUCTBANK FROM THE EXISTING 6-PAK STUBBED UP IN NEW 4-PAK PORTABLES AS INDICATED:

- 1 - 53mm (2") DIA. DB2 FOR PORTABLE FIRE ALARM.
- 1 - 53mm (2") DIA. DB2 FOR PORTABLE DATA.

PROVIDE NEW PULL STRINGS FOR EACH RESPECTIVE CONDUIT FOR PULLING OF NEW CABLES. CONTRACTOR TO PROVIDE LOCATES OF THE AREA TO ENSURE NO DISRUPTION TO EXISTING SERVICES. REFER TO DETAIL 3/E0.01 FOR MORE INFORMATION.

③ PROVIDE NEW POWER FEEDER FROM SWITCHBOARD '600-1' IN THE MAIN ELECTRICAL ROOM FOR THE NEW 4-PAK PORTABLE. REFER TO SINGLE LINE DIAGRAM AND DRAWING E1.01 FOR MORE INFORMATION. CONFIRM ON SITE EXACT ROUTING PRIOR TO TENDERING.

④ PROVIDE NEW WIRING FOR THE FIRE ALARM DEVICES IN THE NEW 4-PAK PORTABLE FED FROM THE EXISTING 6-PAK PORTABLE FIRE ALARM CIRCUITRY. NEW FEEDERS TO BE ROUTED VIA 53MM (2") DIA. DB2 UNDERGROUND CONDUIT FROM THE EXISTING 6-PAK. PROVIDE NEW PULL STRINGS AS REQUIRED FOR PULLING OF NEW CABLES. CONTRACTOR TO PROVIDE LOCATES OF THE AREA TO ENSURE NO DISRUPTION TO EXISTING SERVICES.



|    |                          |            |
|----|--------------------------|------------|
| 1  | ISSUED FOR PERMIT/TENDER | 2025-04-14 |
| NO | REVISIONS                | DATE       |

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SJB CSS  
4-PAC PORTABLE  
CLASSROOM ADDITION

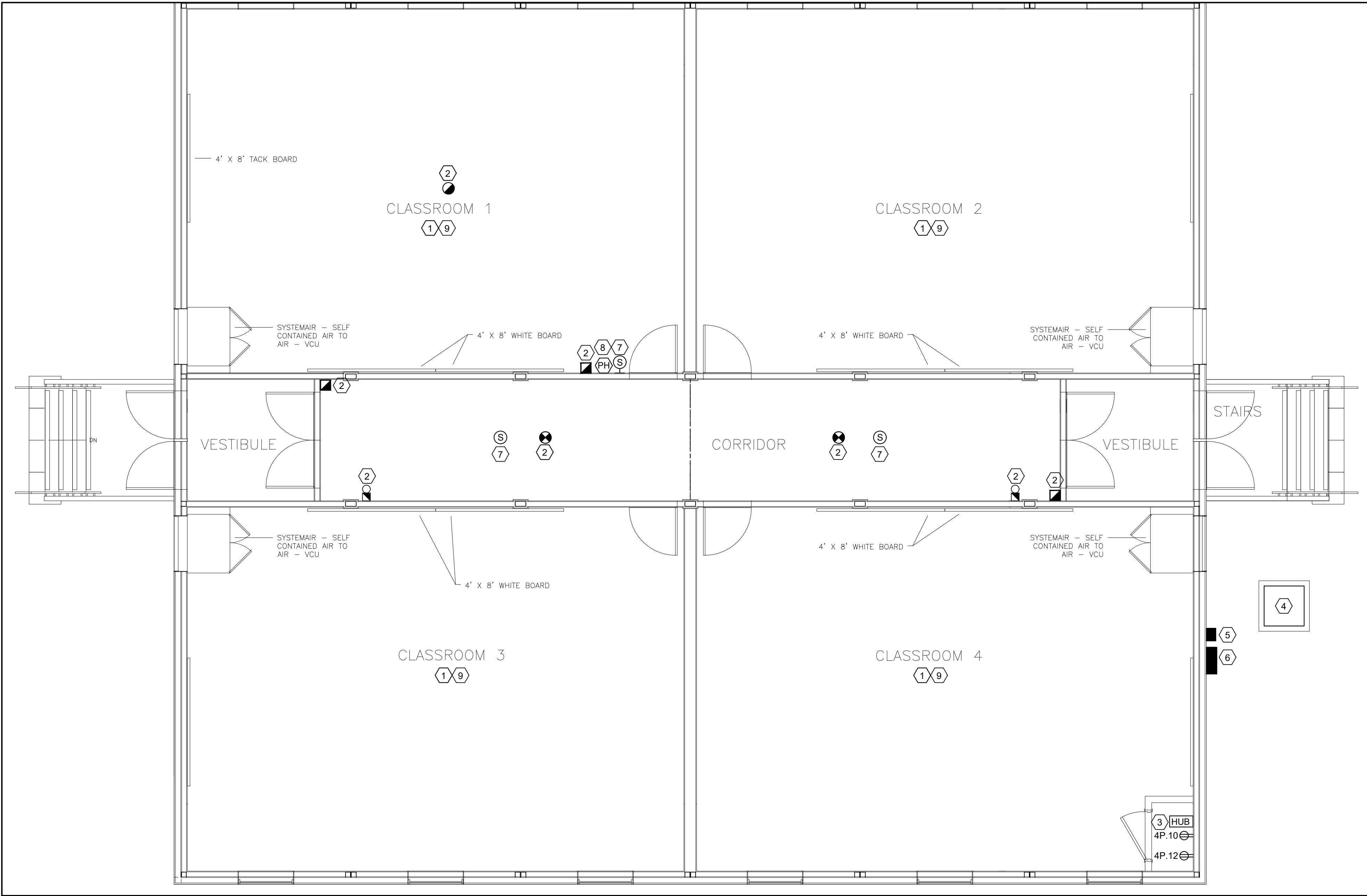
200 Acadia Dr, Hamilton, ON L8W 1B8

## ELECTRICAL SITE PLAN

GRGURIC  
ARCHITECTS  
INCORPORATED

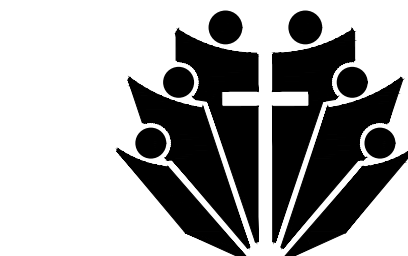


|                         |                       |
|-------------------------|-----------------------|
| SCALE:<br>AS NOTED      | PROJECT:<br><br>24056 |
| START DATE:<br>APR 2025 |                       |
| DRAWN<br>J.M.           | DRAWING:<br><br>E1.00 |
| CHECKED<br>J.M.         |                       |
| PRINT DATE              | 04/14/25              |

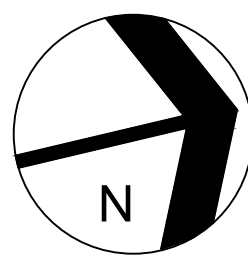


DRAWING NOTES:

- 1 TYPICAL LAYOUT OF CLASSROOM. ALL CLASSROOMS 1, 2, 3 & 4 ARE INCLUDED IN SCOPE OF WORK.
- 2 PROVIDE NEW FIRE ALARM DEVICES AS INDICATED ON LAYOUT. NEW DEVICES TO BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. REFER TO SECTION #27 FOR MORE INFORMATION.
- 3 PROPOSED LOCATION OF NEW COMMUNICATION CLOSET FOR IT, FIRE ALARM AND PA EQUIPMENT. CONTRACTOR TO PROVIDE NEW CONDUIT STUB UPS FOR ALL PA, FIRE ALARM, COMMUNICATION CONDUITS/CABLING. PROVIDE TWO DEDICATED DUPLEX RECEPTACLES FOR IT AND PA EQUIPMENT RESPECTIVELY. REFER TO ELECTRICAL SITE PLAN ON E1.00 DRAWING FOR CONDUIT REQUIREMENTS. COORDINATE EXACT LOCATION ON SITE WITH OWNER AND G.C.
- 4 NEW EXTERIOR 75KVA 600V-208/120V 3PH 4W PAD MOUNTED TRANSFORMER LOCATED OUTSIDE OF RELOCATED 6-PACK PORTABLES. NEW TRANSFORMER TO BE C/W GROUNDING AND NECESSARY CLEARANCES AND A 150MM (6") HOUSEKEEPING PAD EXTENDING 100MM (4") AROUND THE TRANSFORMER. DRY TYPE TRANSFORMER SHALL BE MANUFACTURED BY HAMMOND OR EQUIVALENT. PRIMARY AND SECONDARY WINDINGS TO BE COPPER. TRANSFORMER MUST HAVE 305MM (12") CLEARANCE ON ALL SIDES OF THE WALL.
- 5 NEW 100A/3P DISCONNECT SWITCH IN A NEMA 3X LOCKABLE ENCLOSURE. COORDINATE EXACT LOCATION OF ON SITE WITH HWCDSB PRIOR TO ANY WORK.
- 6 NEW ELECTRICAL PANEL 'PP-4P', 400A, 120/208V, 3Ø, 4W, NEMA 3X WITH LOCKABLE ENCLOSURE. REFER TO PANEL SCHEDULE FOR BREAKER REQUIREMENTS. CONFIRM EXACT LOCATION WITH HWCDSB PRIOR TO ANY WORK.
- 7 PROVIDE NEW PA SPEAKERS IN EACH CLASSROOM AND CORRIDORS AS INDICATED ON LAYOUT. PROVIDE NEW WIRING AND EQUIPMENT AS REQUIRED. REFER TO SECTION #28 FOR MORE INFORMATION.
- 8 PROVIDE NEW PA PHONES IN EACH CLASSROOM AS INDICATED ON LAYOUT. PROVIDE NEW WIRING AND EQUIPMENT AS REQUIRED. REFER TO SECTION #28 FOR MORE INFORMATION.
- 9 PROVIDE NEW DATA CABLES AND OUTLETS AS REQUIRED FOR EACH LOCATION. REFER TO PORTABLE SUPPLIER ELECTRICAL DRAWINGS FOR LOCATIONS AND REQUIREMENTS PRIOR TO TENDERING. REFER TO SECTION #28 FOR MORE INFORMATION.



Hamilton-Wentworth  
Catholic District School Board



| NO | REVISIONS                | DATE       |
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| 2  | RE-ISSUED FOR PERMIT     | 2025-04-17 |
| 1  | ISSUED FOR PERMIT/TENDER | 2025-04-14 |

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.



SJB CSS  
4-PAC PORTABLE  
CLASSROOM ADDITION

200 Acadia Dr, Hamilton, ON L8W 1B8

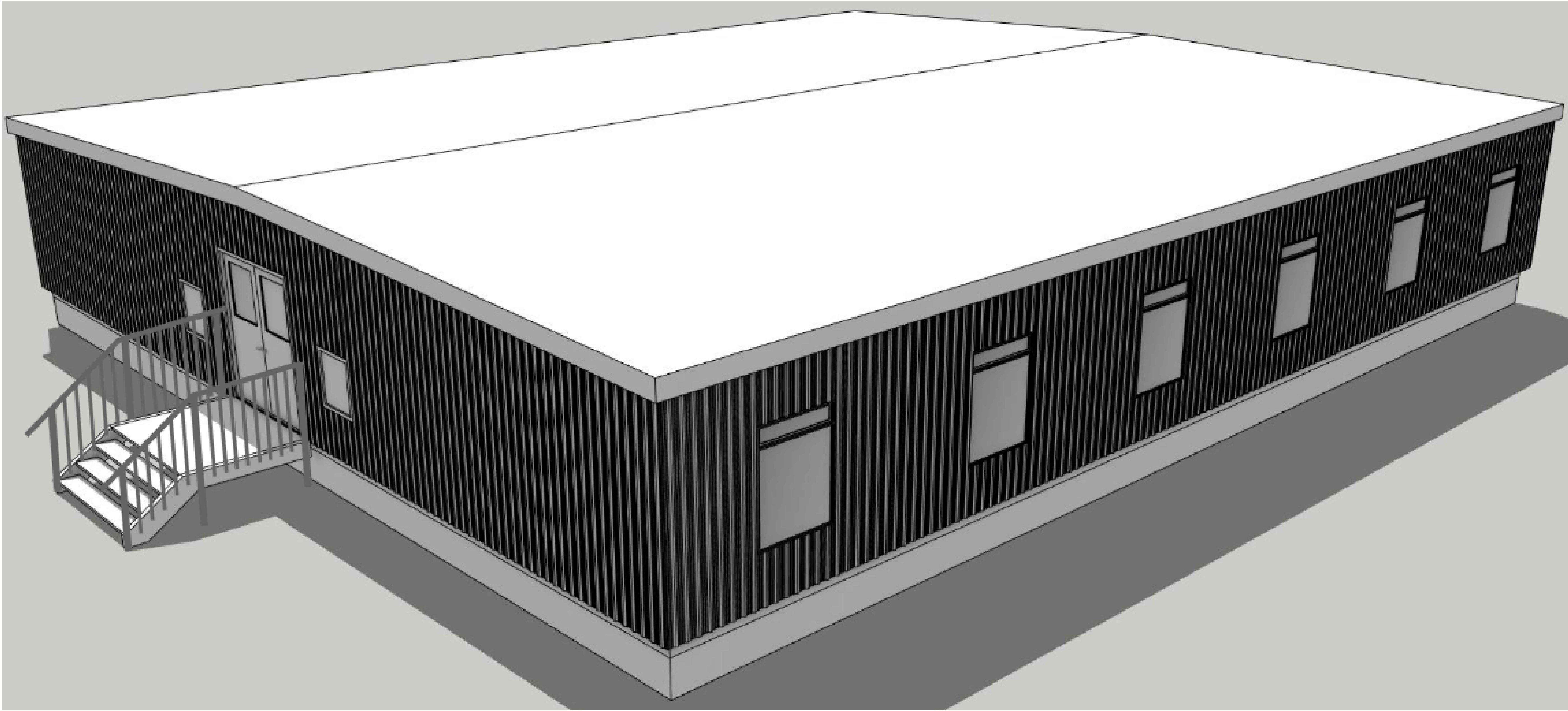
4-PAK PORTABLE  
ELECTRICAL PLAN

GRGURIC  
ARCHITECTS  
INCORPORATED



28 KING STREET EAST, UNIT B  
STONE CREEK, ONTARIO, L8G 1J8  
Tel. 905-664-8735 Fax. 905-664-8737  
Web: www.2gai.com

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| SCALE:<br>AS NOTED      | PROJECT:<br><b>24056</b> |
| START DATE:<br>APR 2025 |                          |
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| CHECKED<br>J.M.         |                          |
| PRINT DATE              | 04/17/25                 |



ARCHITECTURAL DRAWINGS:

- A0.0 - COVER PAGE
- A0.1 - SITE PLAN - CATHEDRAL SCHOOL
- A0.1.2- SITE PLAN - ST. JEAN DE BR• BEUF SCHOOL
- A1.0 - MODULE LAYOUT
- A1.1 - FLOOR PLAN
- A1.1 - REFLECTED CEILING PLAN
- A2.0 - ELEVATIONS
- A3.0 - BUILDING SECTION
- A3.1 - BUILDING SECTION
- A4.0 - INTERIOR ELEVATIONS
- A5.0 - DETAILS
- A5.1 - DETAILS
- A5.2 - DETAILS
- A6.0 - SCHEDULES, ASSEMBLIES

COLOUR SELECTED:

SIDING: TAN  
TRIMS: DARK BROWN


NOTES:  
  
1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:  

atelier 292 architect inc.

  
292 MAIN STREET  
OTTAWA, ONTARIO  
CANADA K1S 1E1

ARCHITECT STAMP:  




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DRAWN BY:  
C.SADDINGTON

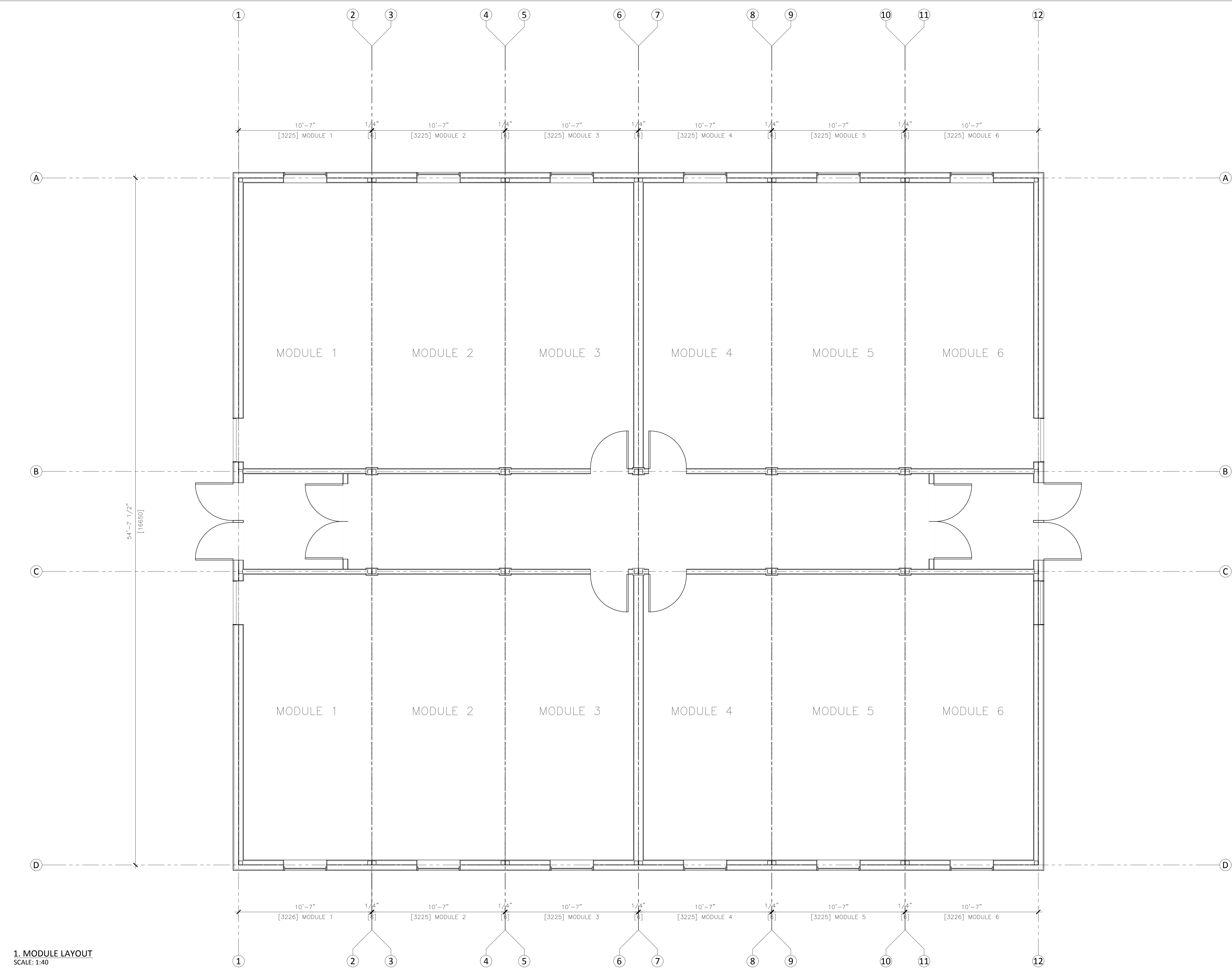
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1295 CORMORANT ROAD,  
ANCASTER, ON L9G 4V5

PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:  
  
TITLE PAGE

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| PROJECT #:<br>25001 | PAGE:<br>A0.0 |
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1. MODULE LAYOUT  
SCALE: 1:40

NOTES:  
1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:  
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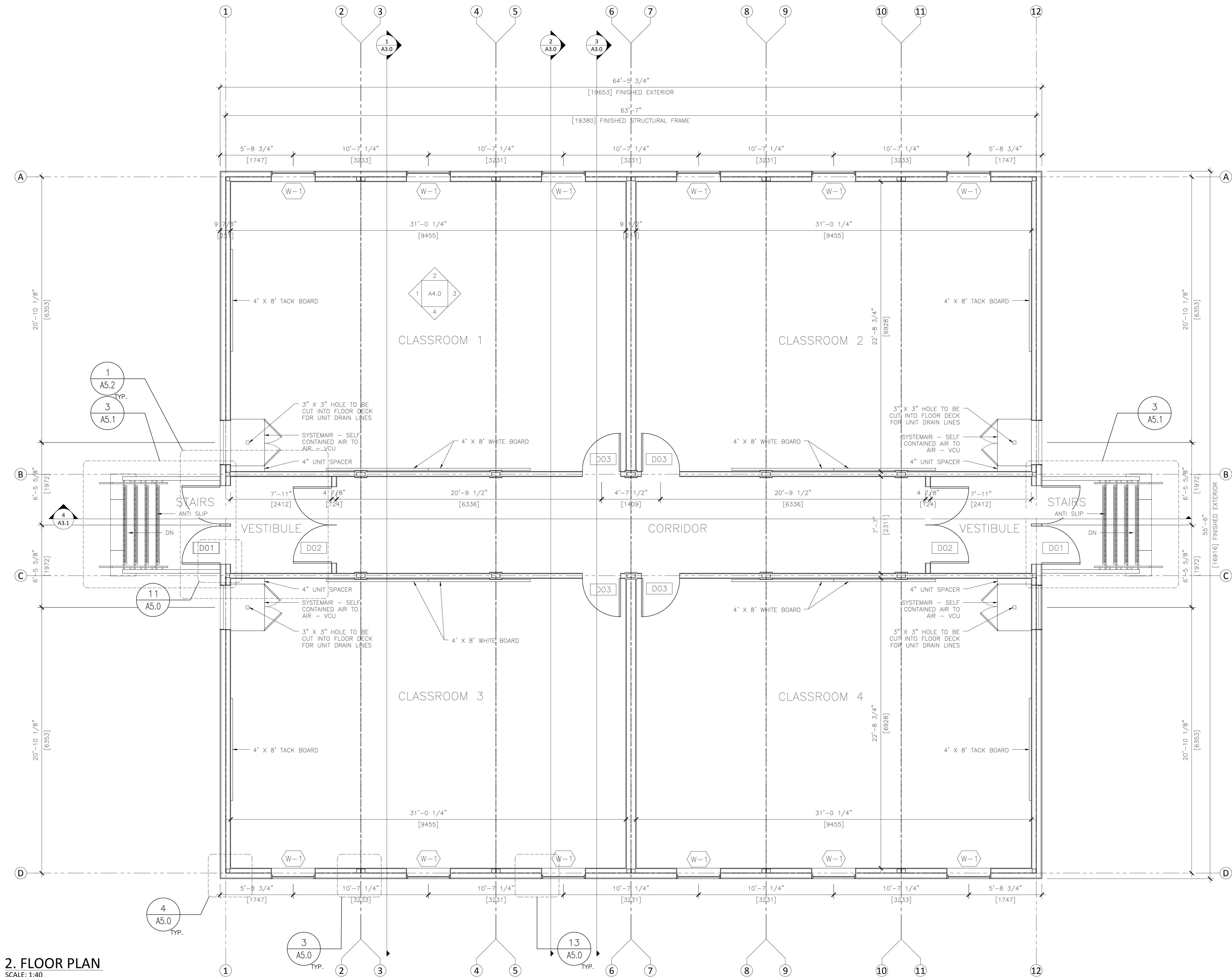


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PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD  
ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:  
  
MODULE LAYOUT



2. FLOOR PLAN  
SCALE: 1:40

NOTES:  
1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:

atelier 292 architect inc.

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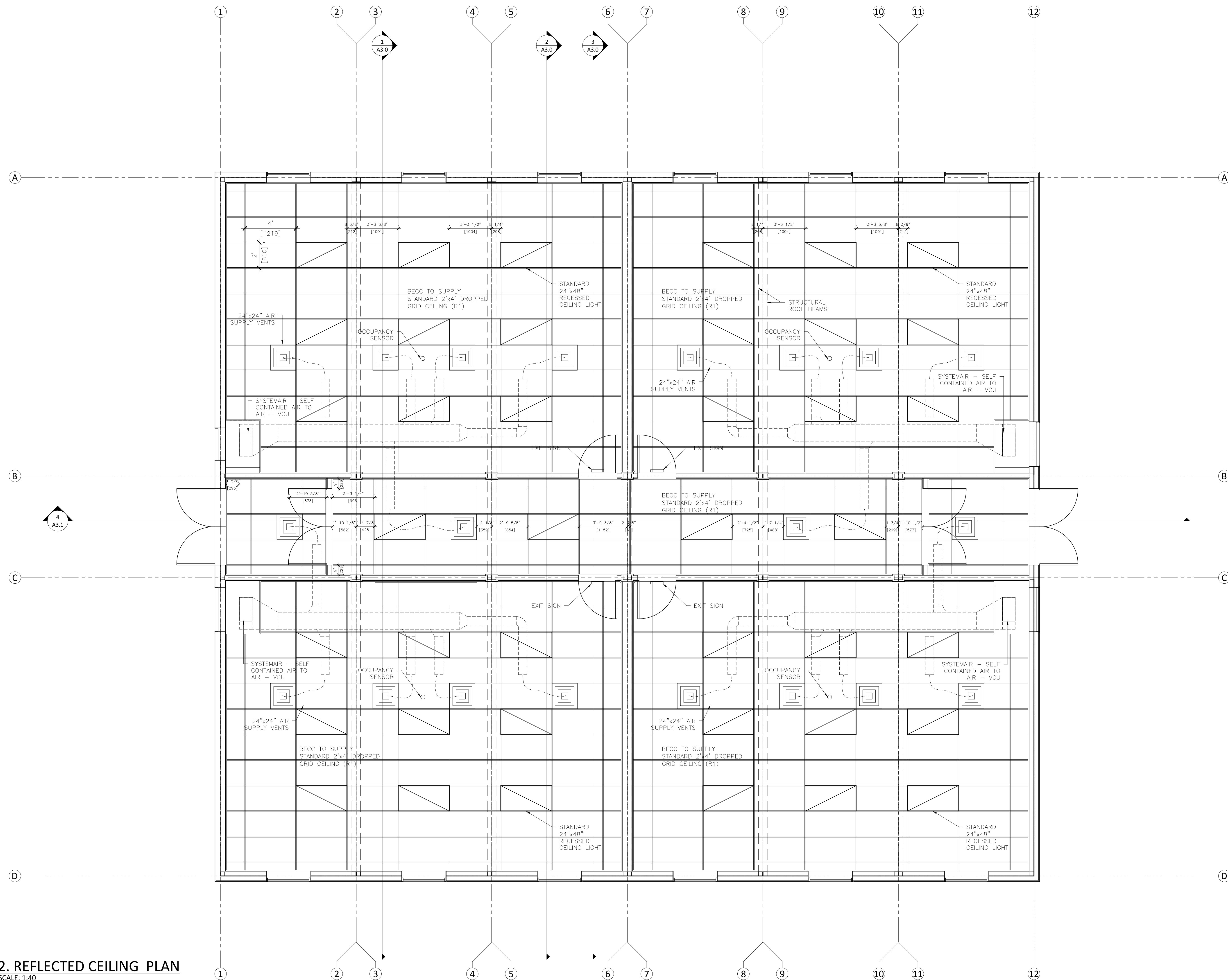
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BECC MODULAR  
1295 CORMORANT ROAD,  
ANCASTER, ON L9G 4V5

PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD  
ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:

MODULE LAYOUT

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NOTES:

ARCHITECT:

292 MAIN STREET  
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CANADA K1S 1E1

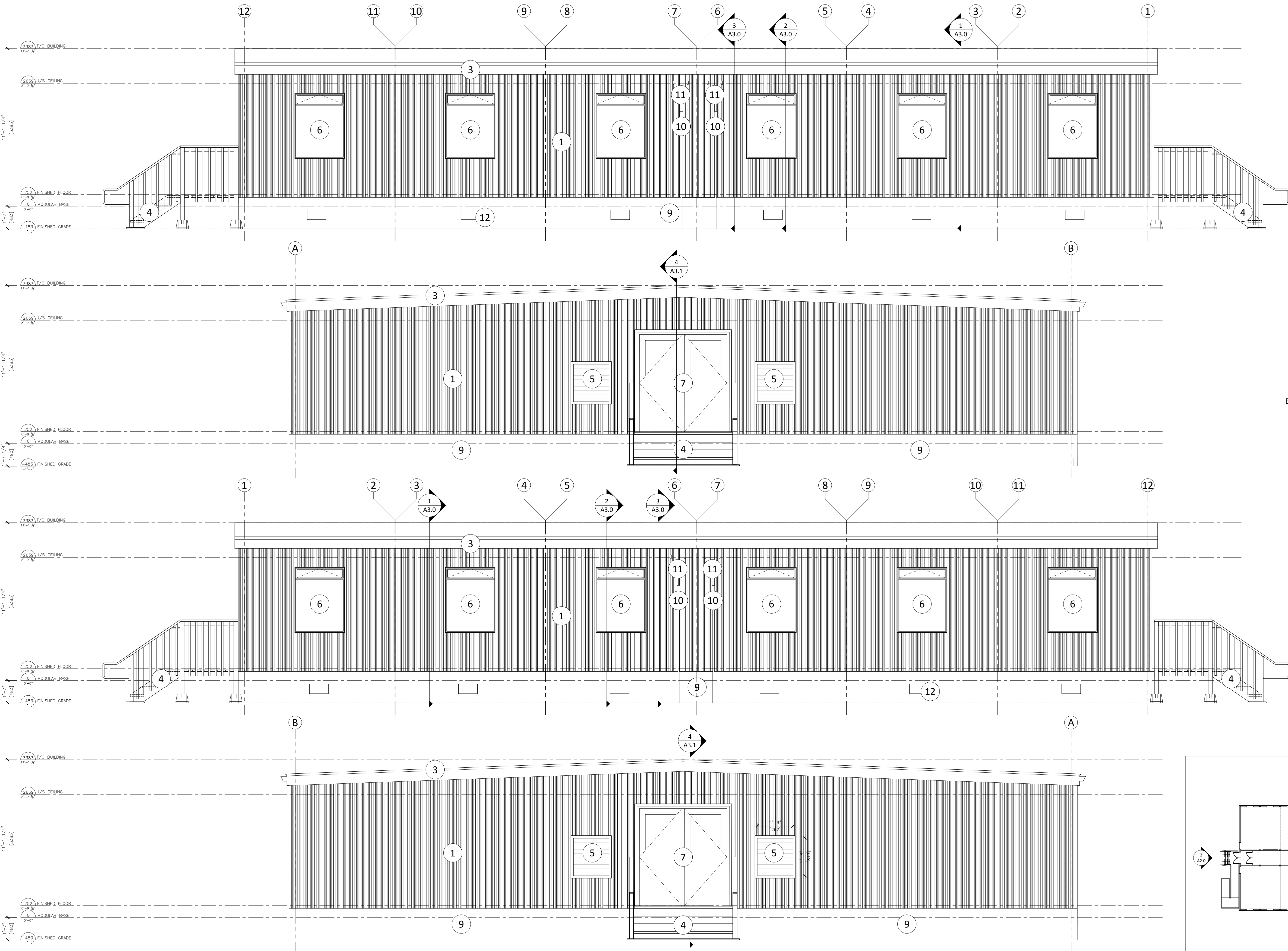
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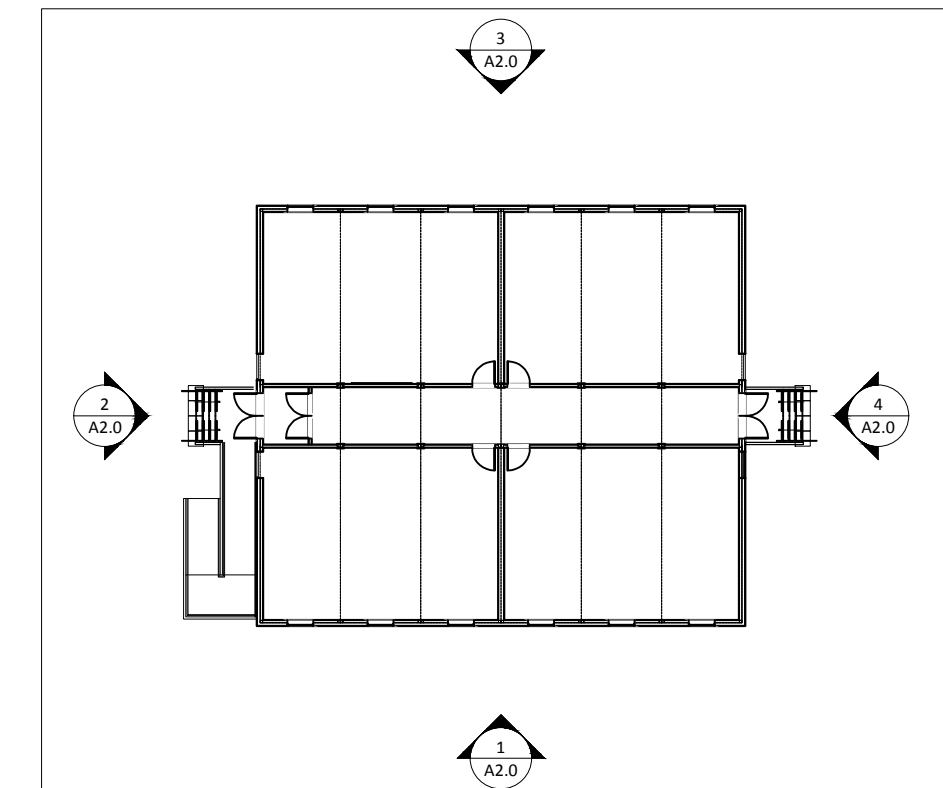
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## A1.2



EXTERIOR ELEVATIONS  
SCALE: 1:50



ELEVATION KEY PLAN  
SCALE: N.T.S.

- EXTERIOR FINISHES
- 1" METAL SIDING (REFER TO PAGE A5)
  - METAL SIDING INFILL
  - FLASHING
  - STAIRS & RAILING
  - LOUVER
  - WINDOW
  - DOOR
  - DOWNSPOUT
  - PLYWOOD SKIRT
  - POWER SUPPLY (BY OTHERS)
  - THRU WALL SERVICE CONDUITS
  - 8" X 16" SKIRT VENT

NOTES:

1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:

atelier 292 architect inc.

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OTTAWA, ONTARIO  
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CLIENT:

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DRAWN BY:  
C.SADDINGTON

BECC MODULAR  
1295 CORMORANT ROAD,  
ANCASTER, ON L9G 4V5

PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:

EXTERIOR ELEVATIONS

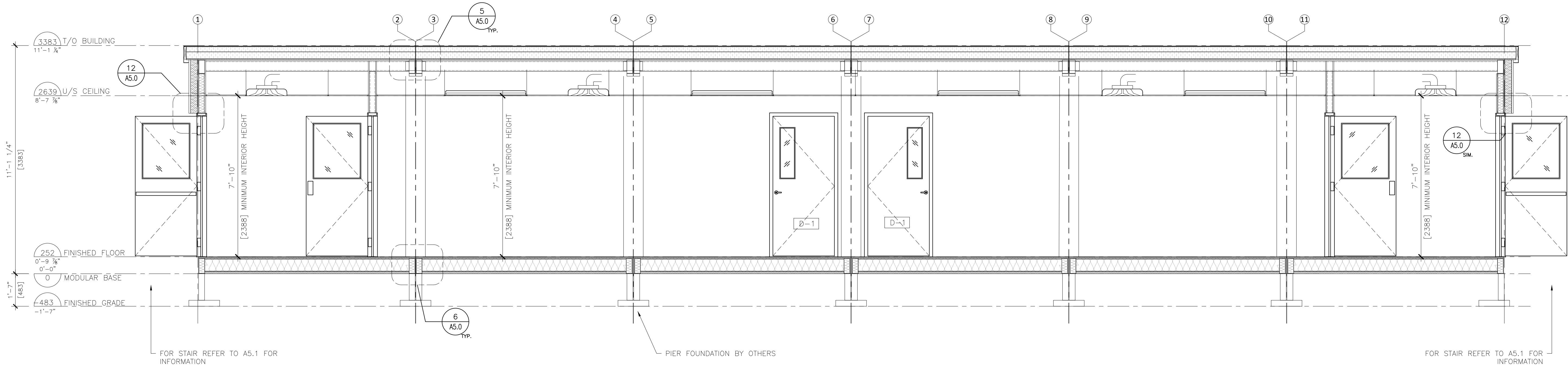
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25001

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NOTES:

1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:

**atelier 292 architect inc.**

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PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

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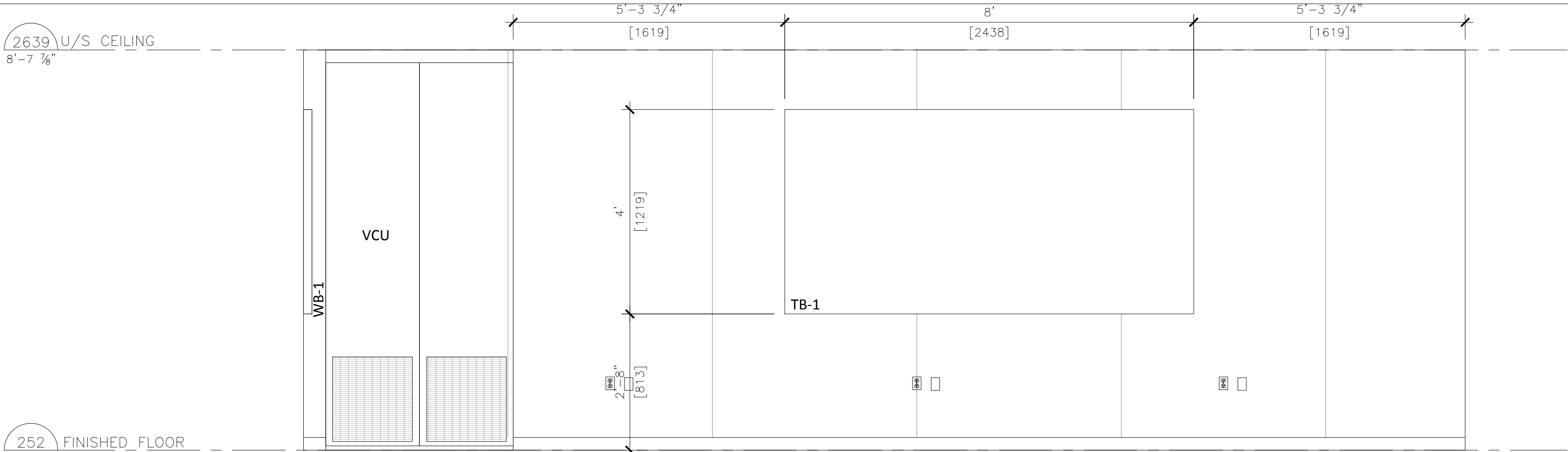
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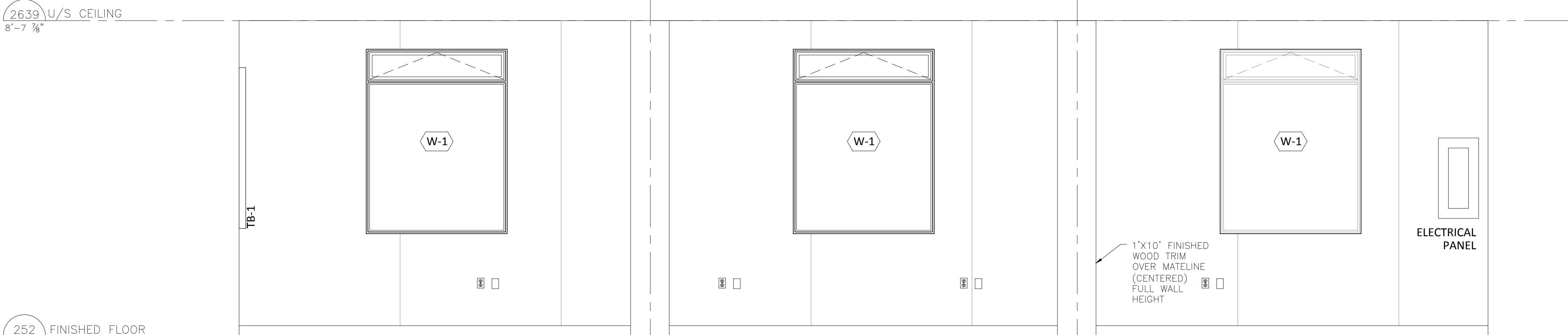
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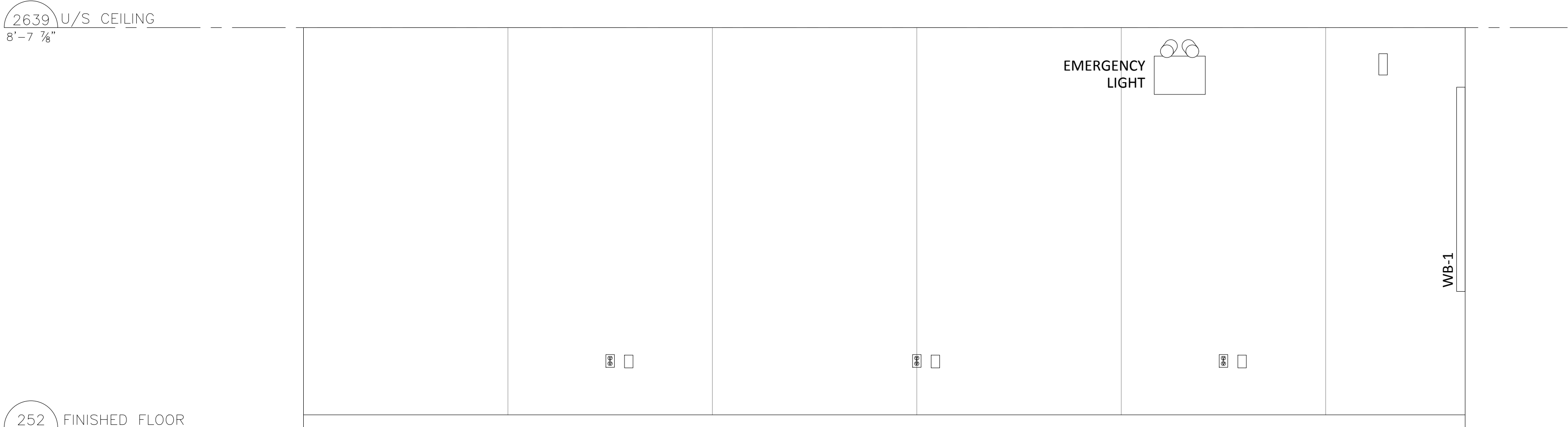
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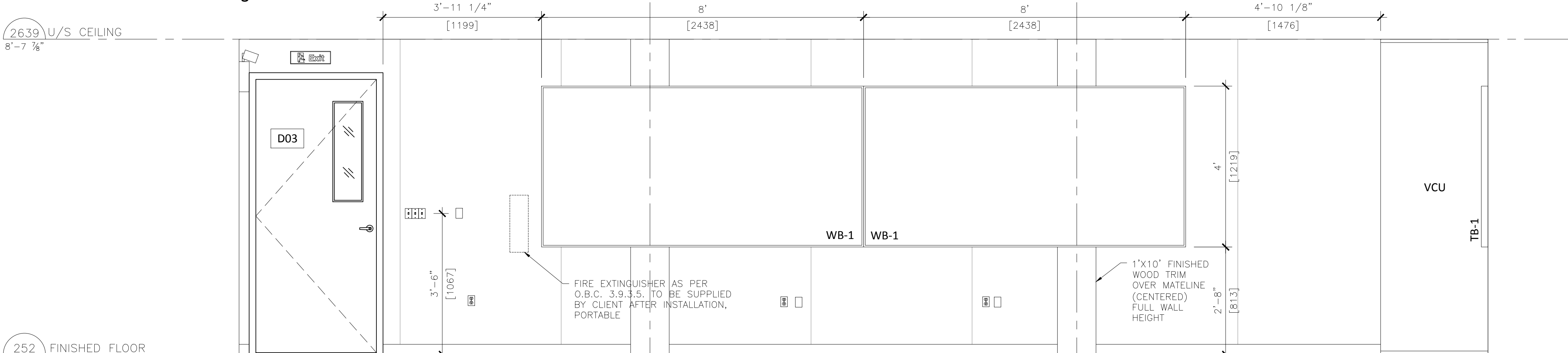
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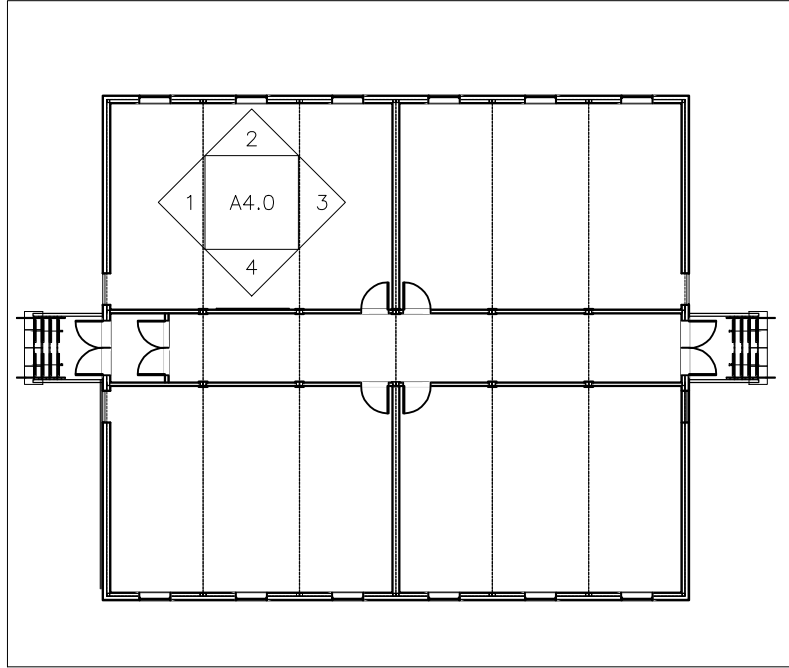
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4

## INTERIOR ELEVATIONS

SCALE: 1:40



## ELEVATION KEY PLAN

SCALE: N.T.S.

NOTES:

1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:

atelier 292 architect inc.

292 MAIN STREET  
OTTAWA, ONTARIO  
CANADA K1S 1E1

ARCHITECT STAMP:



DRAWING STATUS DATE  
YY.MM.DD

ISSUED FOR PERMIT REVIEW 25.03.05

ISSUED FOR PERMIT 25.03.24

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CLIENT:

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1295 CORMORANT ROAD,  
ANCASTER, ON L9G 4V5

PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD  
ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:

INTERIOR ELEVATIONS

PROJECT #: 25001 PAGE: A4.0

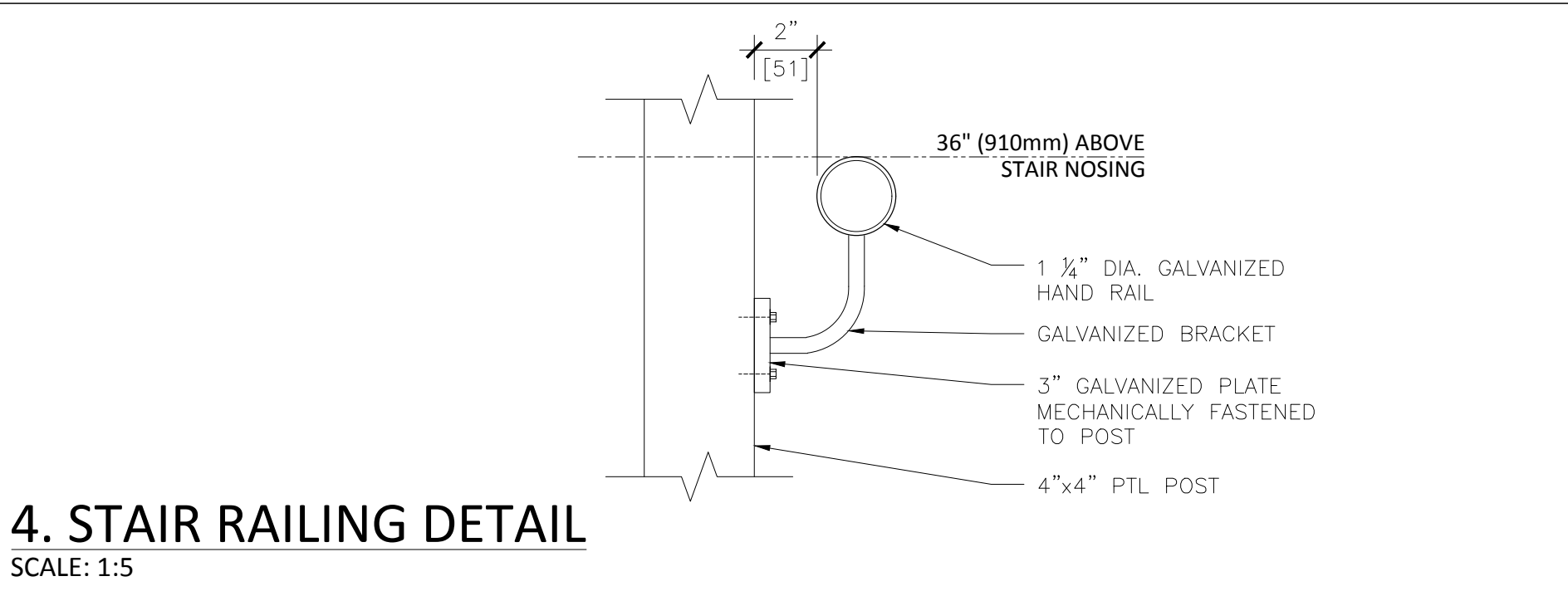
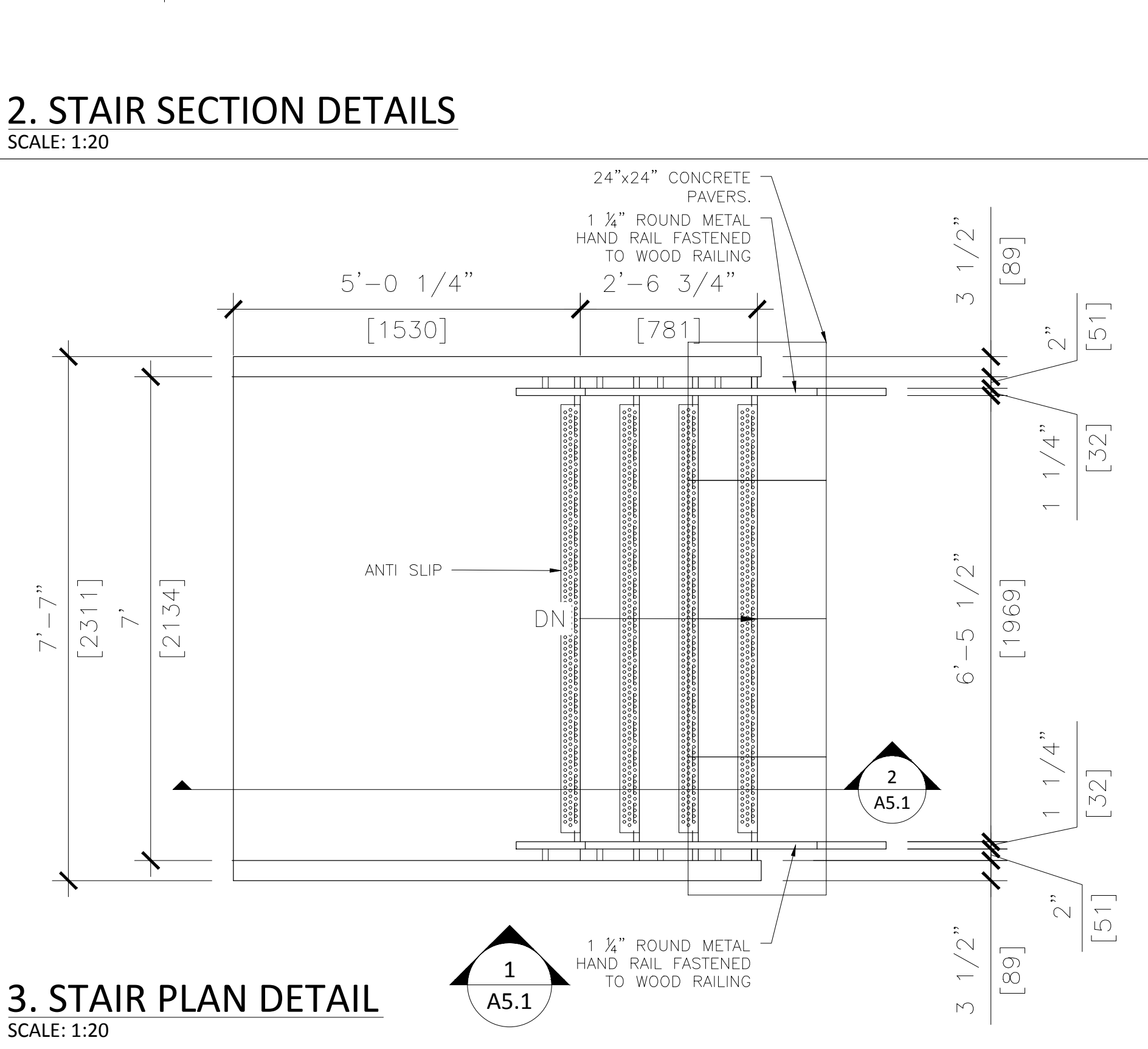
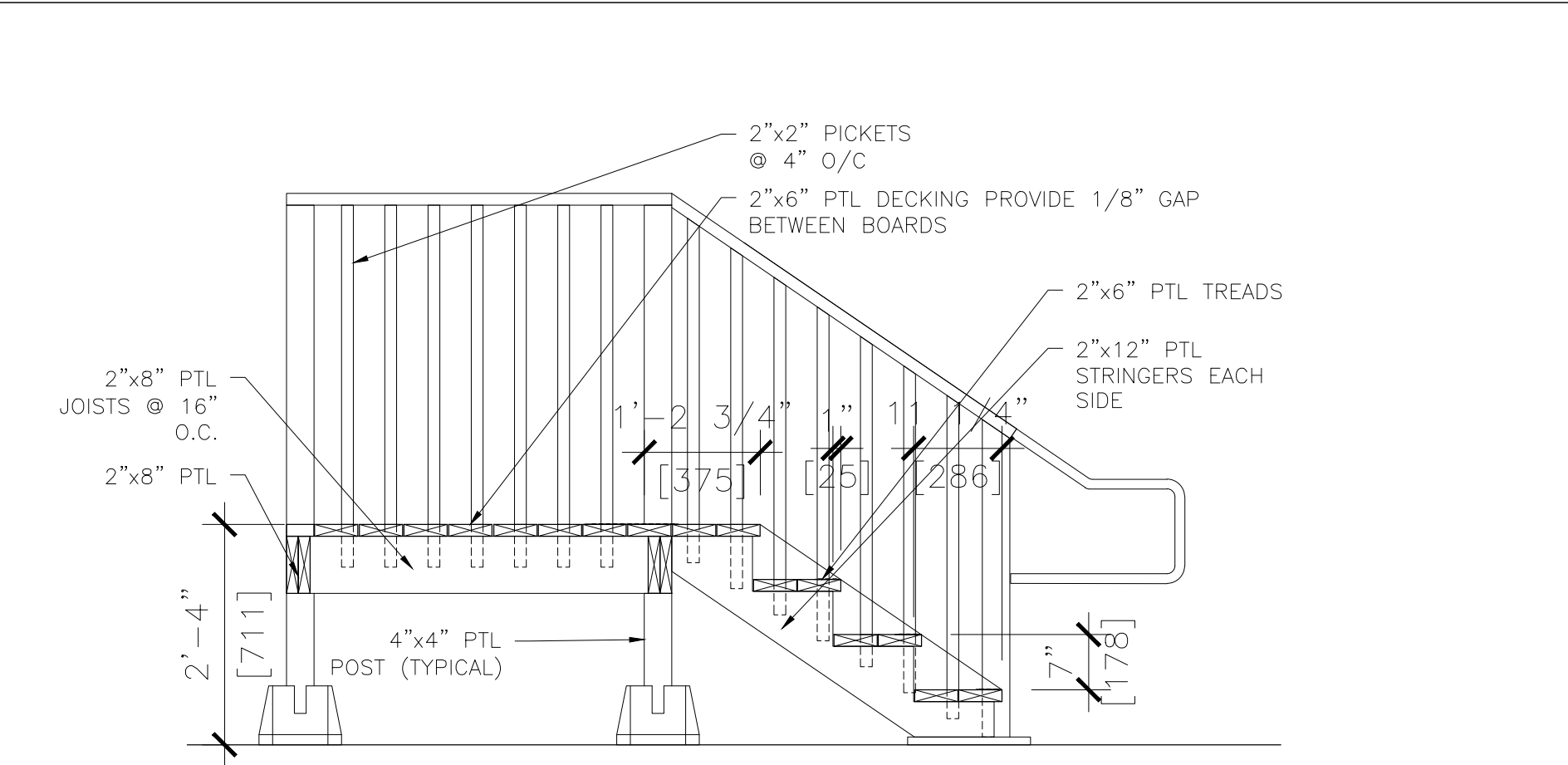
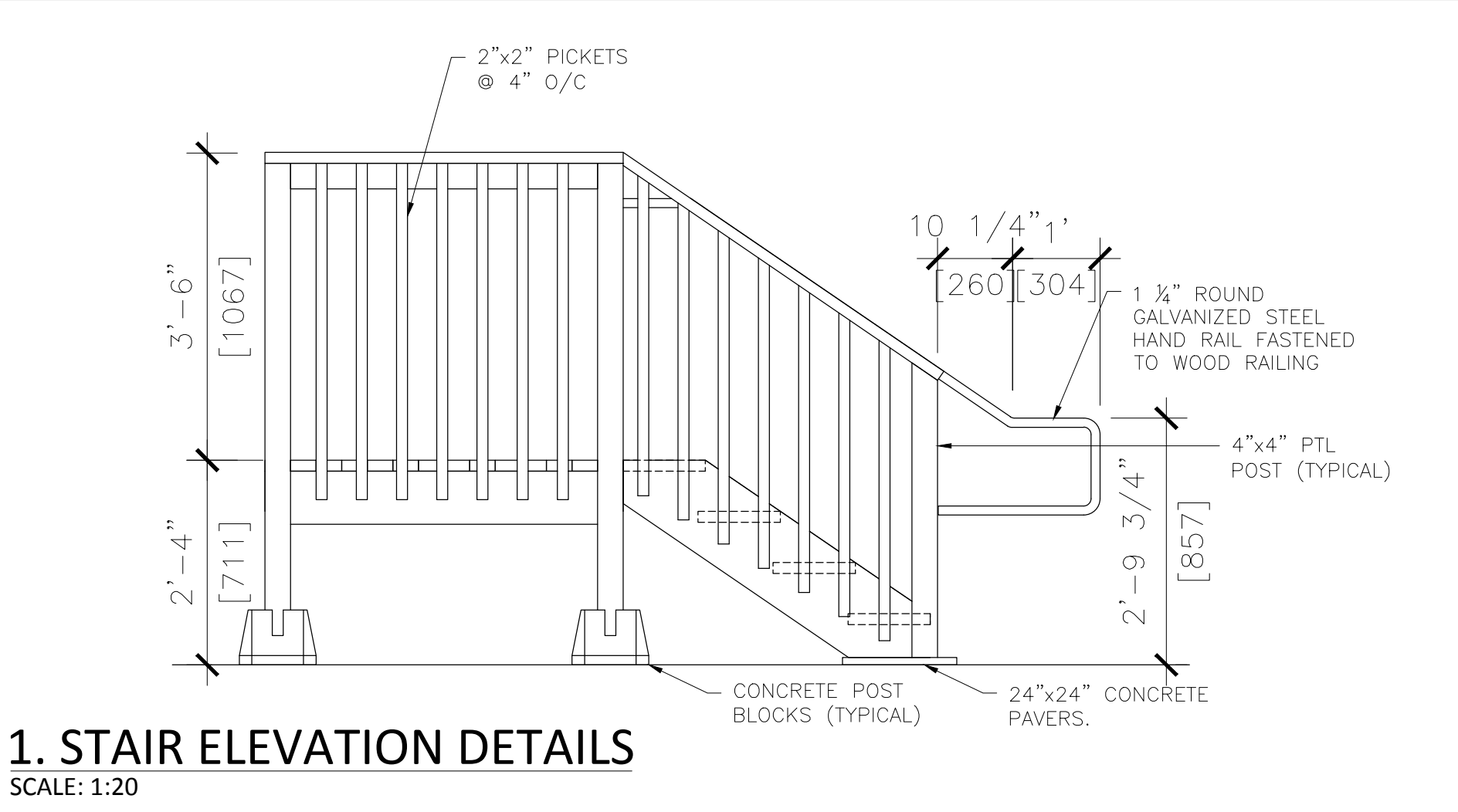


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| 25001      | A5.0  |



EXTERIOR STAIR NOTES:

1. EXTERIOR STAIR CONSTRUCTION TO COMPLY WITH OBC SUPPLEMENTAL STANDARD SB-7.
2. ALL WOOD FOR EXTERIOR STAIRS TO BE PRESSURE-TREATED LUMBER.
3. ALL CONNECTORS AND FASTENERS USED FOR EXTERIOR STAIRS TO BE HOT-DIPPED GALVANIZED.

NOTES:  
  
1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:  
  
**atelier 292 architect inc.**  
  
292 MAIN STREET  
OTTAWA, ONTARIO  
CANADA K1S 1E1

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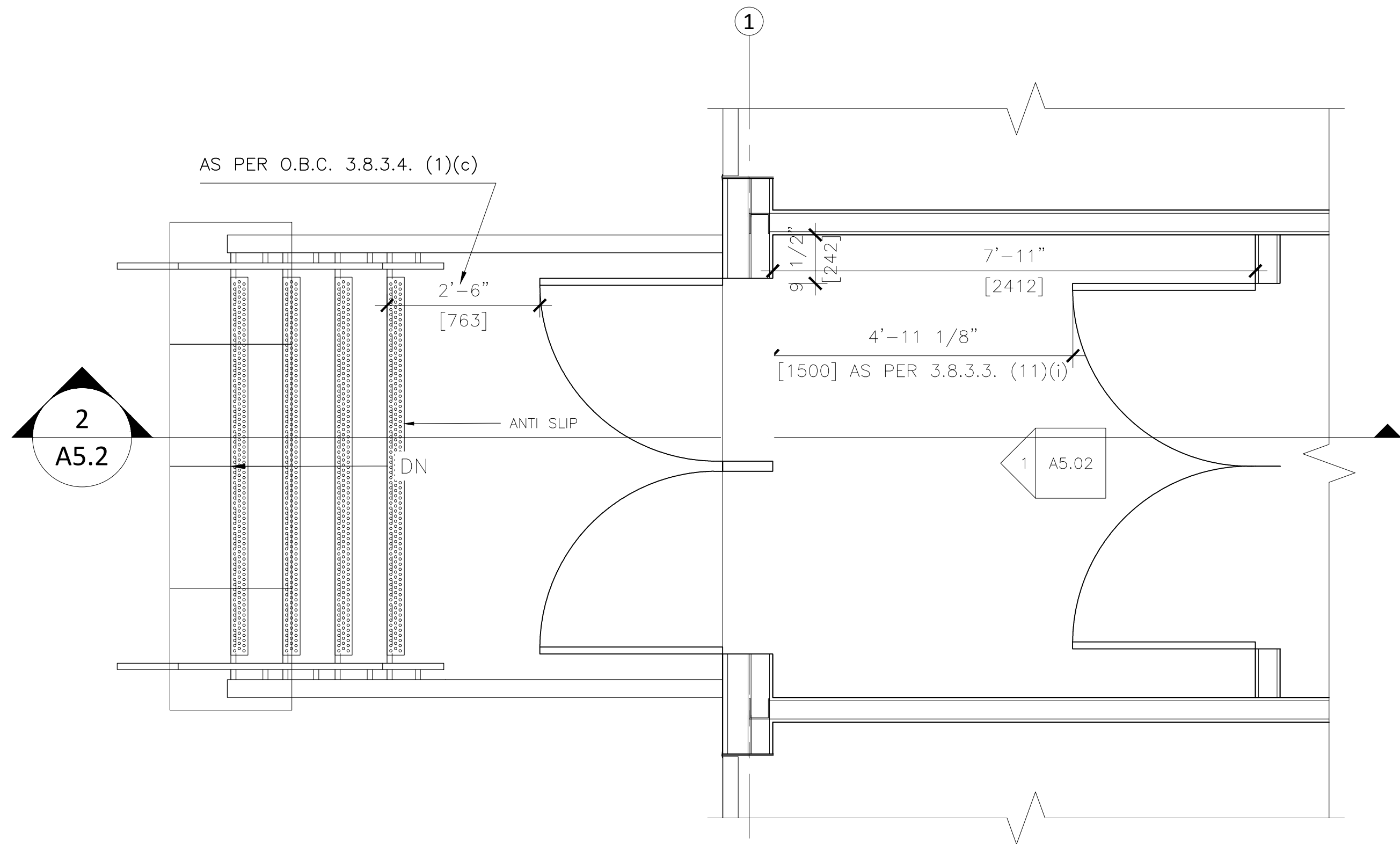
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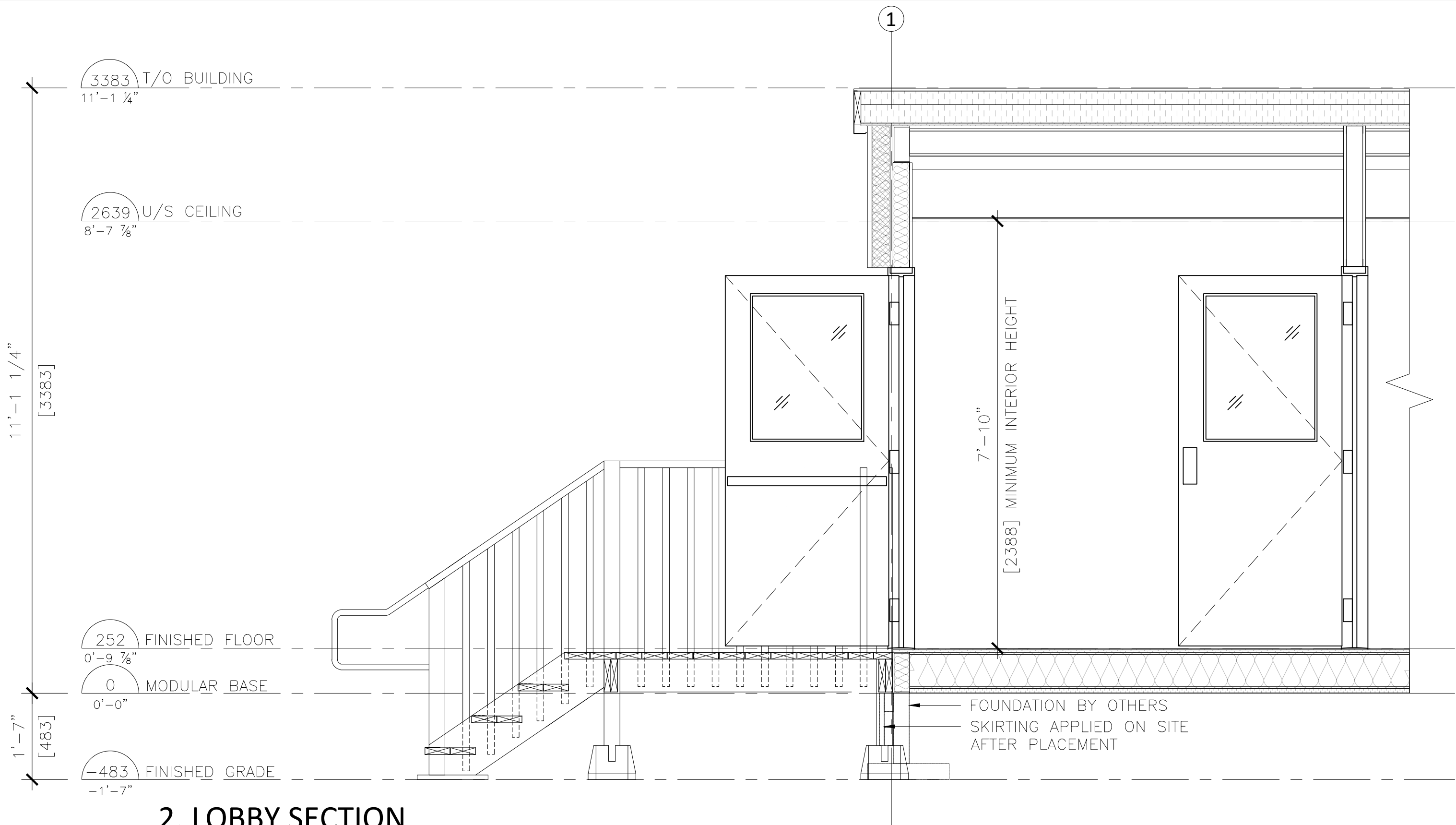
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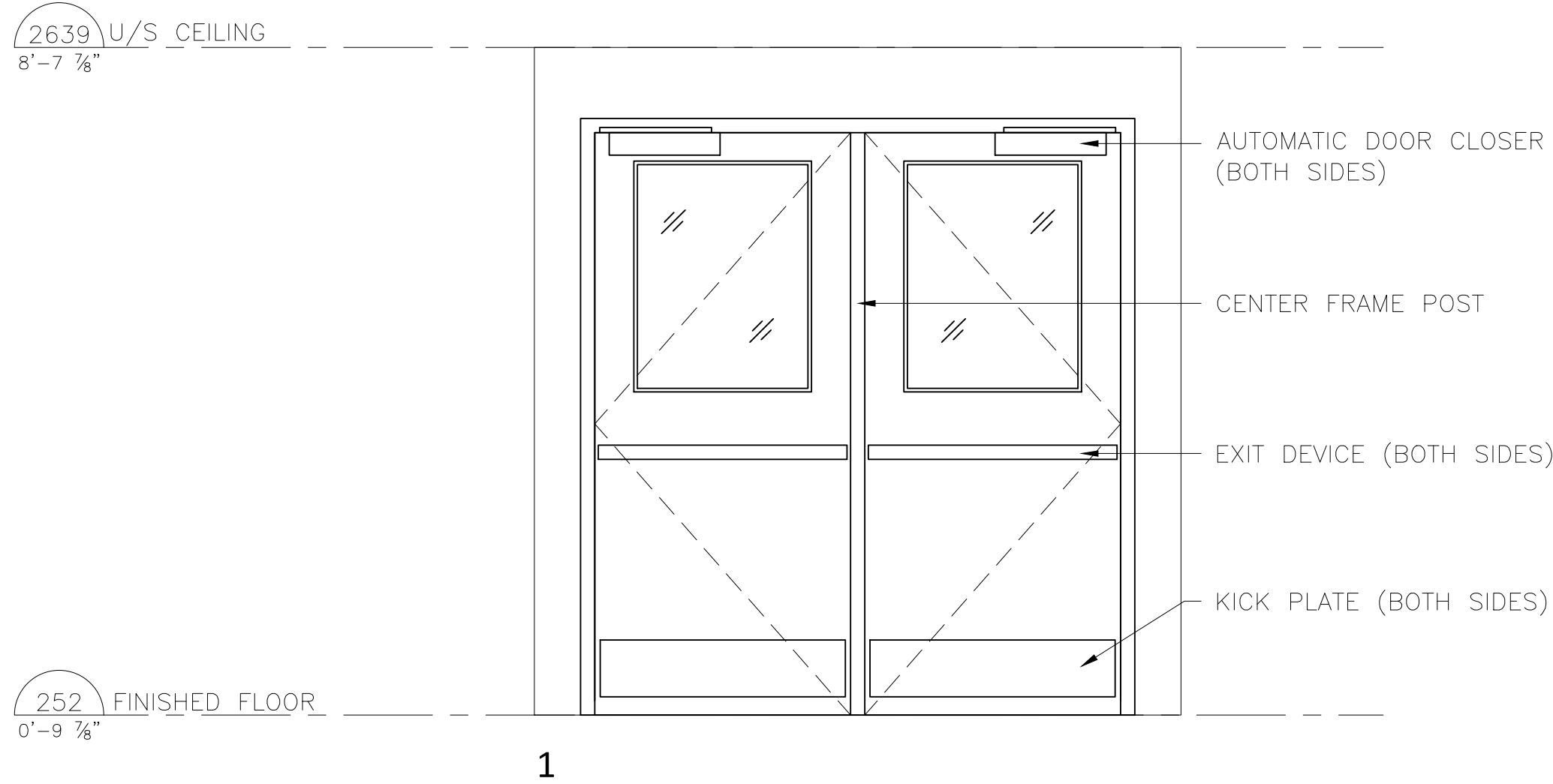
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PROJECT: HAMILTON-WENTWORTH CATHOLIC DISTRICT SCHOOL BOARD  
ADDRESS: 30 WENTWORTH ST NORTH L8L 8H5 AND 200 ACADIA DR.L8W 1B8, HAMILTON ON  
DRAWING TITLE: DETAILS  
  
PROJECT #: 25001  
PAGE: A5.1



1. LOBBY PLAN DETAIL  
SCALE: 1:20



2. LOBBY SECTION  
SCALE: 1:20



3. LOBBY INTERIOR ELEVATION  
SCALE: 1:20

NOTES:  
1. SCHOOL ADMINISTRATOR TO CONFIRM THAT THE FACILITIES OF THE MAIN SCHOOL BUILDING COMPLY WITH THE REQUIREMENTS OF THE O.B.C. 3.7.4 FOR THE TOTAL OCCUPANT LOAD OF THE MAIN SCHOOL BUILDING AND THE PORTABLE CLASSROOMS.

ARCHITECT:  
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






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HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD  
ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON




































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DETAILS










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| PROJECT #:<br>25001 | PAGE:<br>A5.2 |
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





















| DRAWING LIST |                                     |               |
|--------------|-------------------------------------|---------------|
| DWG No       | DRAWING TITLE                       | DRAWING SCALE |
| M01          | DRAWING LIST AND ELECTRICAL LEGENDS | N.T.S.        |
| M02          | ELECRICAL PLAN                      | 1:50          |
| M60          | SPECIFICATIONS                      | N.T.S.        |











| FIRE ALARM LEGEND   |  |   |   |   |  |
|---|--|---|---|---|--|
| SYMBOL  | DESCRIPTION  | SYMBOL  | DESCRIPTION   | SYMBOL  | DESCRIPTION                            |
|  | HEAT DETECTOR. CONN. TO BLD. FIRE ALARM CONTROL SYSTEM |  | CO DETECTOR - AMERICAN SENSOR                                     |  | FIRE ALARM HORN                        |
|  | SMOKE DETECTOR. CONN. TO BLD. F. ALARM CONTROL SYST.   |  | 24 CO DETEC. - WALL/CEILING MOUNT., MACURO # CM-S1, OR APP. EQUAL |  | FIRE ALARM COMBO HORN AND STROBE LIGHT |
|  | 120 VOLT SMOKE ALARM                                   |  | 120 VOLT COMBO SMOKE AND CO ALARM                                 |  | FIRE ALARM STROBE LIGHT                |
|  | GUESTROOM SMOKE DETECTOR WITH INTELLIGENT SQUIDER BASE |  | EXIT LIGHT (CEILING) C/W FACES AND ARROWS AS INDICATED            |  | FIRE ALARM PULL STATION                |
|  | EXIT LIGHT (WALL) C/W FACE AND LIGHT                   |  | FIRE ALARM BELL   |  | DUCT SMOKE DETECTOR                    |

| ELECTRICAL LEGEND   |  |   |   |   |   |
|---|--|---|---|---|---|
| SYMBOL  | DESCRIPTION  | SYMBOL  | DESCRIPTION   | SYMBOL  | DESCRIPTION   |
|  | SINGLE PHASE MOTOR, H.P. AS INSCRIBED  |  | 15A, U-GROUND DUPLEX RECEPTACLE C/W USB PORT  |  | 125A 120/240V/1HP ELECTRICAL PANEL C/W MAIN BREAKER.          |
|  | THREE PHASE MOTOR, H.P. AS INSCRIBED   |  | 120V, U-GROUND DUPLEX RECEPTACLE  |  | HORN STROBE FOR DOOR SIGNAL FROM 120V/24V FOR DOOR BELL       |
|  | DIRECT POWER CONNECTION TO EQUIPMET  |  | 120V, 20A, T-SLOT, U-GROUND DUPLEX RECEPTACLE   |  | HORN STROBE FOR DOOR SIGNAL FOR HEARING IMPAIRED & ACC. UNITS |
|  | DISCONNECT SWITCH - FUSE AND SIZE AS NOTED   |  | 120V, U-GR. SPLIT DUP. REC., ONE HALF ON SWITCH CONTROL   |  | DOOR BELL (ACC UNIT) DISTURB SWITCH                           |
|  | MOTOR STARTER SUPPLIED AND WIRED BY DIVISION 16  |  | 120V, U-GR. DUP. REC. WITH GROUND FAULT INTERRUPTER   |  | PUSH BUTTON / EMERGENCY PUSH BUTTON                           |
|  | MOTOR STAR, SUPP. BY DIV 15 BUT ISTAL. & WIRED BY DIV. 16                                |  | MOUNTED ABOVE COUNTER TOP, OR AS INSTR. ON JOB SITE   |  | ROUGH-INS FOR FUTURE DUAL PORTS LEVEL 2 CHARGING STATION      |
|  | MAGNETIC STARTER   |  | 120/ 240V., 1 Ph., 4 WIRE, 30A RECEPTACLE. CONNECT WITH 3 # 10 BX AND GROUND WIRE OR 3 # 10 THW, 13 MM CONDUIT, 1170MM OR 150MM |  | 120V, U-GROUND DUPLEX RECEPTACLE FOR COFFEMAKER               |
|  | JUNCTION BOX   |  | 120V, U-GROUND DUPLEX RECEPTACLE. CONNECT WITH 3 # 8 BX AND GROUND WIRE OR 3 # 8 THW, 19 MM CONDUIT                             |  | 120V, U-GROUND DUPLEX RECEPTACLE FOR MICROWAVE                |
|  | IN SUITE TELECOMMUNICATION PANEL 120V OUTLET INSIDE THE PANEL TO BE FED FROM SUITE PANEL |  | 120V, U-GROUND DUPLEX RECEPTACLE. CONNECT WITH 3 # 8 BX AND GROUND WIRE OR 3 # 8 THW, 19 MM CONDUIT                             |  | 120V, U-GROUND DUPLEX RECEPTACLE FOR REFRIGERATOR             |
|  | ANNUNCIATOR C/W SOUNDER  |  | 15A, 125/250V RECEP. (CSA 6-15R) BY HUBBLE P&S 5671 PTAC  |  | RECEPTACLE FOR WASHER   |
|  | ELECTRICAL METER   |  | PUSH TO LOCK BY OTHERS  |  | RECEPTACLE FOR DRYER  |
|   |  |  | OCCUPIED WHEN LIT BY OTHERS   |  | 15A, 125V FLOOR - MOUNTED DUPLEX RECEPTACLE (TYP).            |

| SECURITY LEGEND   |                               |   |                   |   |                         |
|---|-------------------------------|---|-------------------|---|-------------------------|
| SYMBOL  | DESCRIPTION                   | SYMBOL  | DESCRIPTION       | SYMBOL  | DESCRIPTION             |
|  | SECURITY CARD READER ROUGH-IN |  | WIRELESS RECEIVER |  | TELEPHONE ENTRY UNIT    |
|  | DOOR CONTACT ROUGH-IN         |  | ELECTRIC STRIKE   |  | CAMERA                  |
|  | MAGNETIC LOCK                 |  | INTERCOM          |  | REQUEST TO EXIST MOTION |

| LIGHTING LEGEND   |   |   |   |   |   |
|---|---|---|---|---|---|
| SYMBOL  | DESCRIPTION   | SYMBOL  | DESCRIPTION   | SYMBOL  | DESCRIPTION   |
|  | SINGLE POLE, SINGLE THROW TOGGLE SWITCH WITH ONE, TWO OR THREE GANG COVERPLATE RESPECTIVELY |  | DOOR BELL (ACC UNITS)                                 |  | EXTERIOR SINGLE HEAD LIGHT                            |
|   |   |  | ILLUMINATED LIGHT SWITCH IN GUEST W/R                 |  | WALL, MOUNTED OCCUPANCY SENSOR                        |
|  | THREE WAY SWITCH  |  | LIGHTING FIXTURE, CEILING AND WALL MNTD RESPECTIVELY  |  | CEILING MOUNTED OCCUPANCY SENSOR                      |
|  | DIMMER SWITCH   |  | LIGHTING FIXTURE CONNECTED TO EMERG. LIGHTING CIRCUIT |  | EMERGENCY LIGHTING HEAD                               |
|  | LOW VOLTAGE SWITCH  |  | SUITE LV KILL SWITCH OVER-RIDE FOR ALL SUITE LIGHTING |  | EMERGENCY BATTERY UNIT C/W 18 WATT LAMP HEAD LUMACELL |

| COMMUNICATION DEVICES LEGEND  |   |   |                                   |   |   |
|---|---|---|-----------------------------------|---|---|
| SYMBOL  | DESCRIPTION                                       | SYMBOL  | DESCRIPTION                       | SYMBOL  | DESCRIPTION                                 |
|  | WALL MOUNTED TELEPHONE / TELECOMMUNICATION OUTLET |  | WALL MOUNTED INTERCOM             |  | ANY OF THE NOTED DEVICE TO BE FLUSH OUTLETS |
|  | WALL MOUNTED TELEVISION OUTLET                    |  | WALL MOUNTED VIDEO INTERCOM       |  | WIRELESS ACCESS POINT                       |
|  | WALL MOUNTED DATA OUTLET                          |  | WALL MOUNTED SUITE SECURITY PANEL |   |   |

| GENERAL LEGEND  |                    |   |  |   |                               |
|---|--------------------|---|--|---|-------------------------------|
| SYMBOL  | DESCRIPTION        | SYMBOL  | DESCRIPTION                                | SYMBOL  | DESCRIPTION                   |
|  | KEYED NOTE         |  | MECH EQUIPMENT TAG, REFER TO MECH DRAWINGS |  | EXISTING TO BE RECOLATED      |
|  | EQUIPMENT LABEL    |  | EXISTING IN RECOLATED LOCATION             |  | CEILING MOUNTED FLOOR MOUNTED |
|  | BREAK              |  | EXISTING TO BE REMOVED                     |  | NIGHT LIGHT                   |
|  | EXISTING TO REMAIN |   |  |   |                               |

STAMP

15/04/2025 ISSUED FOR REVIEW

1 27/03/2025 ISSUED FOR PERMIT

No DATE DESCRIPTION

PROJECT LOGO AND ADDRESS

HAMILTON-WENTWORTH CATHOLIC DISTRICT SCHOOL BOARD

30 WENTWORTH ST NORTH L8L 8H5 AND 200 ACADIA DR L6W 1B8, HAMILTON ON

KEY PLAN

CONSTRUCTION NORTH TRUE NORTH

DISCLAIMER

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JOB NUMBER 25010

SCALE N.T.S.

DATE 05/03/25

DRAWN BY RC

REVIEWED BY HS

REVISION

DRAWING NAME  
DRAWING LIST AND  
ELEC LEGENDS

DRAWING NUMBER

E01

STAMP

14/04/2025 ISSUED FOR REVIEW

1 27/03/2025 ISSUED FOR PERMIT

No DATE DESCRIPTION

PROJECT LOGO  
AND ADDRESS

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CATHOLIC DISTRICT  
SCHOOL BOARD

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NORTH

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THE CONTRACT DOCUMENTS.

JOB NUMBER 25010

SCALE 1:50

DATE 05/03/25

DRAWN BY RC

REVIEWED BY HS

REVISION

DRAWING NAME  
ELECTRICAL PLAN

DRAWING NUMBER

E02

## GENERAL KEYED NOTES

- PROVIDE RELAY ABOVE ACCESSIBLE CEILING TO CONTROL FIXTURE 'EXL'.  
PROVIDE CONTROL WIRING TO RELIABLE MPV-L-ER CONTROL PANEL.
- PROVIDE SINGLE GANG OUTLET BOX C/W 1" CONDUIT EXTENDED TO CEILING  
SPACE.
- PROVIDE SINGLE GANG, 2.5" DEEP OUTLET BOX AT 47" AFF TO CENTER OF  
BOX TO SUPPORT PA SYSTEM (PA SYSTEM AND WIRING PROVIDED BY  
OTHERS). PROVIDE 0.5" EMT CONDUIT UP WALL INTO ACCESSIBLE CEILING  
SPACE. PROVIDE BLANK COVER PLATE.
- PROVIDE SINGLE GANG, 2.5" DEEP OUTLET BOX AT 47" AFF TO CENTER OF  
BOX TO SUPPORT PA SYSTEM (PA SYSTEM AND WIRING PROVIDED BY  
OTHERS). PROVIDE 0.5" EMT CONDUIT UP WALL INTO ACCESSIBLE CEILING  
SPACE. PROVIDE BLANK COVER PLATE.
- PROVIDE A SINGLE GANG, 2.5" DEEP OUTLET BOX AT 18" AFF (UNLESS  
OTHERWISE INDICATED) TO THE CENTRE OF THE BOX FOR DATA  
CONNECTION. PROVIDE 0.5" EMT CONDUIT UP WALL INTO ACCESSIBLE  
CEILING SPACE. PROVIDE BLANK COVER PLATE.
- PROVIDE 4"X4" BOX C/W EXTENSION RING OUTLET BOX AT 90" AFF TO  
CENTRE OF BOX TO SUPPORT FIRE ALARM BELL (DEVICE AND WIRING  
PROVIDED BY OTHERS). PROVIDE 0.5" EMT CONDUIT UP WALL INTO  
ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
- PROVIDE SINGLE GANG, 2.5" DEEP OUTLET BOX AT 47" AFF TO CENTRE OF  
BOX TO SUPPORT FIRE ALARM PULL STATION (PULL STATION AND WIRING  
PROVIDED BY OTHERS). PROVIDE 0.5" EMT CONDUIT UP WALL INTO  
ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
- FLUSH MOUNT PANEL IN WALL THIS LOCATION. EXTEND 2.0' CONDUIT  
THROUGH EXTERIOR WALL. PROVIDE LB. PROVIDE SERVICE MAST,  
WEATHERHEAD AND TWO GROUND RODS LOOSE FOR SITE INSTALLATION BY  
OTHERS.
- PROVIDE 2-1 1/4" Ø PVC WEATHER HEADS AND CONDUITS EXTENDED INTO  
CEILING SPACE. CONDUITS TO BE USED FOR OWNER SUPPLIED  
COMMUNICATION WIRING (PA, FIRE ALARM, SECURITY, ETC.)
- PROVIDE RELAY ABOVE ACCESSIBLE CEILING TO CONTROL FIXTURE 'EXL'.  
PROVIDE CONTROL WIRING TO RELIABLE MPV-L-ER CONTROL PANEL.
- RELIABLE MPV-L-ER CONTROL PANEL. PROVIDE CONTROL WIRING TO RELAY  
CONTROLLING FIXTURE 'EXL'.
- MOUNT RECEPTACLE 6" BELOW CEILING ABOVE ELECTRICAL PANEL.
- PROVIDE SINGLE GANG OUTLET BOX C/W 1" CONDUIT EXTENDED TO CEILING  
SPACE.
- RUN ONE 18AWG TWISTED SHIELDED PAIR FROM THE UV CONTROLLER TO  
THE 12" RELIABLE CONTROLLER C/W 24VAC TRANSFORMER ACCESSORY IN  
THE CEILING BY THE ELECTRICAL PANEL. RUN ONE 18AWG TWISTED  
SHIELDED PAIR FROM THE 12" RELIABLE CONTROL PANEL TO THE ROUGHED  
IN SENSOR BOX BY THE DOOR.
- EMERGENCY LIGHTHEAD C/W BATTERY PACK AND ELECTRICAL RECEPTACLE  
FOR BATTERY CHARGING.
- COMPLETE WITH MAIN BREAKER/CIRCUIT BREAKER AND PANEL DOORS HAVE  
LOCK CONNECTED TO MAST AND GROUND RODS (MAST AND GROUND ROAD  
SUPPLIED BY OTHERS).
- MAST GROUND RODS AND MAIN PANEL BE INSTALLED BY OTHERS.

## BRANCH PANEL: A

LOCATION: CLASSROOM  
SUPPLY FROM: PE-A  
MOUNTING: SURFACE  
ENCLOSURE: Type 1

VOLTS: 120/240 1PH  
PHASES: 1  
WIRES: 3

A.I.C. RATING: -  
MAINS TYPE: -  
MAINS RATING: 125 A  
MCB RATING: 1 A

| LOAD CLASSIFICATION | BKR  | CCT... | A           | B | C           | CCT... | BKR  | LOAD CLASSIFICATION                 |
|---------------------|------|--------|-------------|---|-------------|--------|------|-------------------------------------|
| RECEPTACLE          | 15 A | 1      | 540VA       |   |             | 2      | --   |                                     |
| LIGHTING            | 15 A | 3      |             |   | 850VA       | 4      | --   |                                     |
| LIGHTING EXTERIOR   | 15 A | 5      | 20VA 100VA  |   |             | 6      | 15 A | CONTROLLER                          |
| RECEPTACLE          | 15 A | 7      |             |   | 540VA 350VA | 8      | 15 A | EMERGENCY RECEPTACLE/ EXIT<br>LIGHT |
| RECEPTACLE          | 15 A | 9      | 540VA 540VA |   |             | 10     | 15 A | RECEPTACLE                          |
| CORRIDOR LIGHT      | 15 A | 11     | 566VA       |   | 100VA       | 12     | 15 A | EXTERIOR LIGHT                      |
| --                  | --   | 13     |             |   |             | 14     | --   | --                                  |
| --                  | --   | 15     |             |   |             | 16     | --   | --                                  |
| --                  | --   | 17     |             |   |             | 18     | --   | --                                  |
| --                  | --   | 19     |             |   |             | 20     | --   | --                                  |
| --                  | --   | 21     |             |   |             | 22     | --   | --                                  |
| --                  | --   | 23     |             |   |             | 24     | --   | --                                  |
| TOTAL LOAD:         |      |        | 2306VA      |   | 1840VA      |        |      |                                     |
| TOTAL AMPS:         |      |        | 19 A        |   | 15 VA       |        |      |                                     |

## BRANCH PANEL: B, C & D

LOCATION: CLASSROOM  
SUPPLY FROM: PE-A  
MOUNTING: SURFACE  
ENCLOSURE: Type 1

VOLTS: 120/240 1PH  
PHASES: 1  
WIRES: 3

A.I.C. RATING: -  
MAINS TYPE: -  
MAINS RATING: 125 A  
MCB RATING: 1 A

| LOAD CLASSIFICATION | BKR  | CCT... | A           | B | C           | CCT... | BKR  | LOAD CLASSIFICATION                 |
|---------------------|------|--------|-------------|---|-------------|--------|------|-------------------------------------|
| RECEPTACLE          | 15 A | 1      | 540VA       |   |             | 2      | --   |                                     |
| LIGHTING            | 15 A | 3      |             |   | 850VA       | 4      | --   |                                     |
| LIGHTING EXTERIOR   | 15 A | 5      | 20VA 100VA  |   |             | 6      | 15 A | CONTROLLER                          |
| RECEPTACLE          | 15 A | 7      |             |   | 540VA 350VA | 8      | 15 A | EMERGENCY RECEPTACLE/ EXIT<br>LIGHT |
| RECEPTACLE          | 15 A | 9      | 540VA 540VA |   |             | 10     | 15 A | RECEPTACLE                          |
| --                  | --   | 11     |             |   |             | 12     | --   | --                                  |
| --                  | --   | 13     |             |   |             | 14     | --   | --                                  |
| --                  | --   | 15     |             |   |             | 16     | --   | --                                  |
| --                  | --   | 17     |             |   |             | 18     | --   | --                                  |
| --                  | --   | 19     |             |   |             | 20     | --   | --                                  |
| --                  | --   | 21     |             |   |             | 22     | --   | --                                  |
| --                  | --   | 23     |             |   |             | 24     | --   | --                                  |
| TOTAL LOAD:         |      |        | 1740VA      |   | 1740VA      |        |      |                                     |
| TOTAL AMPS:         |      |        | 15 A        |   | 15 VA       |        |      |                                     |

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ELECTRICAL PLAN

|      |   |
|------|---|
| 1.0  | GENERAL REQUIREMENTS  |
| 1.1  | THIS DIVISION SHALL INCLUDE THE SUPPLY OF ALL MATERIALS AND THE INSTALLATION OF ALL ELECTRICAL WORK INCLUDING ALL LABOR, EQUIPMENT, TOOLS, NECESSARY TO COMPLETE THE INSTALLATION IN THE BUILDING AND ON THE SITE, AS HEREIN SPECIFIED AND SHOWN ON THE DRAWINGS. PROVIDE A COMPLETE OPERATING SYSTEM THE WORK SHALL, GENERALLY, CONSIST OF THE FOLLOWING:<br>REMOVAL OF:<br>— LIGHT FIXTURES.<br>— LIGHT SANCE LENSES.<br>— RECEPTACLES.<br>— DISTRIBUTION PANEL.<br>HYDRO METER CABINET.<br>— MAIN DISCONNECT SWITCH.<br>— OVERHEAD SECONDARY CABLES C/W WEATHERHEAD.<br>SUPPLY AND INSTALLATION OF:<br>— LED LIGHTING.<br>— EMERGENCY LIGHTING.<br>— DISTRIBUTION PANEL.<br>— WIRING, CONDUIT AND JUNCTION BOXES, POWER CONNECTIONS.<br>— RECEPTACLES.<br>— UNIVERSAL WASHROOM KIT<br>— LIGHT SWITCHES.<br>— OCCUPANCY SENSORS HAND DRYERS.<br>— MAIN DISCONNECT SWITCH.<br>HYDRO METER CABINET.<br>— OVERHEAD SECONDARY CABLES. |
| 1.3  | USE ONLY SPECIFIED MATERIALS AND EQUIPMENT EXCEPT WHERE DESIGNATED "OR APPROVED ALTERNATE".   |
| 1.4  | ALL ALTERNATES TO SPECIFIED MATERIALS MUST BE APPROVED BY THE OWNER DURING TENDER STAGE AS PER BROOK UNIVERSITY DESIGN STANDARDS.   |
| 1.5  | THIS DIVISION SHALL CONSULT ALL CONSTRUCTION DRAWINGS AND BE FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK.   |
| 1.6  | WHEN REQUIRED BY THE CONSULTANT, EQUIPMENT SHALL BE RELOCATED UP TO 3 METERS WITHOUT ADDITIONAL CHARGE PROVIDED IT HAS NOT BEEN INSTALLED.  |
| 1.7  | DIMENSIONS MUST BE CHECKED AND VERIFIED ON THE JOB SITE.  |
| 1.8  | SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW. PROVIDE ELECTRONIC COPIES OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT INSTALLED, C/W ALL TESTS AND BALANCING DATA, A COPY OF ALL SHOP DRAWINGS, COMPLETE EXPLANATION OF RECOMMENDED MAINTENANCE PRACTICES, PRECAUTIONS AND CERTIFICATES OF GUARANTEES.   |
| 1.9  | PRIOR TO SUBMITTING A TENDER CAREFULLY EXAMINE CONDITIONS AT THE SITE WHICH MAY OR MAY AFFECT THE WORK. REFER TO AND EXAMINE ALL CONTRACT DOCUMENTS TO DETERMINE FINISHED, PARTIALLY FINISHED AND UNFINISHED AREAS OF THE BUILDING.   |
| 1.10 | COORDINATE DIVISION 26 WORK WITH THE WORK OF ALL TRADES TO ENSURE A PROPER AND COMPLETE INSTALLATION. NOTIFY ALL TRADES CONCERNED OF THE REQUIREMENT FOR OPENINGS, SLEEVES, INSERTS AND OTHER HARDWARE NECESSARY IN THEIR WORK FOR THE ELECTRICAL INSTALLATION, AND, WHERE ELECTRICAL WORK IS TO BE INTEGRATED WITH THE WORK OF OTHER TRADES OR IS TO BE INSTALLED IN CLOSE PROXIMITY WITH THE WORK OF OTHER TRADES, CAREFULLY COORDINATE THE WORK PRIOR TO INSTALLATION.   |
| 1.11 | PROVIDE ALL NECESSARY SLEEVES, INSERTS, BEAM CLAMPS AND HANGERS—LOCATE AND SECURELY PLACE SAME. CO-ORDINATE THE INSTALLATION OF THE FIXTURES WITH THE EXISTING STRUCTURE. DETAILS ON DRAWINGS ARE DIAGRAMMATIC. INCLUDE ALL ACCESSORIES REQUIRED.   |
| 1.12 | IN THE EVENT THAT ANY DEVIATIONS FROM THE ELECTRICAL DRAWING S ARE NECESSARY, THIS DIVISION SHALL CONSULT WITH THE CONSULTANT AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.  |
| 1.13 | MOUNTING C HEIGHT OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTERLINE OF EQUIPMENT UNLESS SPECIFIED OR INDICATED OTHERWISE. IF MOUNTING HEIGHT OF EQUIPMENT IS NOT INDICATED, CO-ORDINATE WITH ONTARIO BUILDING CODE AND TOWN OF AURORA AODA STANDARDS BEFORE PROCEEDING WITH INSTALLATION.   |
| 1.14 | FOR WORK BEYOND SCOPE OF THE CONTRACT SUBMIT A QUOTATION WITH A BREAK—DOWN OF MATERIALS, LABOR AND MARK—UPS AND OBTAIN A WRITTEN ORDER FROM THE GENERAL CONTRACTOR BEFORE PROCEEDING. ALL QUOTATIONS TO BE APPROVED BY THE CONSULTANT AND THE OWNER.  |
| 1.15 | CONTRACTOR TO PROVIDE TWO SETS OF WHITE PRINTS AND AS THE JOB PROGRESSES, MARK THESE PRINTS TO INDICATE THE INSTALLED WORK. HAVE THE WHITE PRINTS AVAILABLE FOR INSPECTION AT THE SITE AT ALL TIMES, AND PRESENT FOR SCRUTINY AT EACH JOB MEETING. TURN OVER AS—BUILT DRAWINGS VIA PDF TO CONSULTANT FOR REVIEW. CONSULTANT SHALL REVISE AUTOCAD DRAWINGS AND RETURN PDF FILES TO CONTRACTOR TO INCLUDE IN O & M MANUALS. CONSULTANT TO ALSO PROVIDE CLIENT WITH AUTOCAD FILES.   |
| 1.16 | DURING AND AFTER THE WORK, THE CONTRACTOR SHALL MAINTAIN THE WORKING CONDITION AND TO MAKE THE SEVERAL PARTS OF THE WORK COME TOGETHER. PROPERLY COORDINATE WORK TO KEEP CUTTING AND PATCHING TO A MINIMUM.   |
| 1.17 | SUPPLY AND INSTALL WIRING DEVICES AS INDICATED ON THE DRAWINGS.   |
| 1.18 | UNLESS INDICATED OTHERWISE IN THE GENERAL CONDITIONS, THE ELECTRICAL CONTRACTOR SHALL SUBMIT ELECTRONICALLY ONE MARKED UP SET OF RECORD DRAWINGS AS "AS BUILT" DRAWINGS AND ONE MAINTENANCE MANUAL. MAINTENANCE MANUAL SHALL INCLUDE, AS A MINIMUM, A COPY OF THE WARRANTY, THE SHOP DRAWINGS FOR THE EQUIPMENT AND FIXTURES, THE ELECTRICAL SAFETY AUTHORITY INSPECTION REPORT, AN INDEX OF CONTENTS AND TAB DIVIDERS.   |
| 1.19 | CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS OF ALL EQUIPMENT SUPPLIED BY OWNER PRIOR TO SHOP DRAWING SUBMITTAL REPORT ANY DISCREPANCIES TO CONSULTANT.   |
| 1.20 | CORE DRILLING AND PENETRATION IN FLOOR SLAB OR BLOCK/CONCRETE WALL ARE TO BE APPROVED BY OWNER PRIOR ANY WORK. INCLUDE COSTS FOR X—RAY AND SCAN AS REQUIRED.  |
| 1.21 | COORDINATE WITH MECHANICAL DIVISION FOR ALL CUTTING, PATCHING AND PAINTING PRIOR TO SUBMITTING TENDER.  |
| 1.22 | ACCEPT THE RESPONSIBILITY TO PROTECT THOSE WORK IN TO THE PROJECT FROM ANY PHYSICAL DANGER DUE TO EXPOSED LIVE EQUIPMENT SUCH AS PANEL MAINS, OUTLETS, WIRING, ETC., SHIELD AND MARK ALL LIVE PARTS "LIVE—240 VOLTS" OR THE APPROPRIATE VOLTAGE.  |
| 2.0  | GENERAL CONDITIONS  |
| 2.1  | THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, ETC. REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. THE WORK SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK. THIS CONTRACTOR SHALL PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.  |
| 2.2  | THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP. ALSO TO CALL FOR ANY TESTS WHICH ARE DEEMED NECESSARY DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH TESTS ARE NOT TO BE CONSIDERED AS EXTRAS.  |
| 3.0  | SCOPE OF WORK   |
| 3.1  | ALL NECESSARY CONDUIT WIRING AND CONNECTIONS FOR A COMPLETE INSTALLATION.   |
| 3.2  | LIGHTING AND POWER DISTRIBUTION SYSTEM AS SHOWN ON THE DRAWINGS.  |
| 3.3  | MOTOR CIRCUITS  |
| 3.4  | COMPLETE CONDUIT SYSTEM FOR LOW VOLTAGE SYSTEM WHERE NOTED ON THE DRAWINGS.   |
| 4.0  | CODES, PERMITS AND INSPECTION   |
| 4.1  | THIS CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL OBTAIN ALL PERMITS, INSPECTIONS, ETC. AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND SHALL PAY FOR SAME. THESE COSTS SHALL BE INCLUDED IN THE TENDER PRICE.   |
| 4.2  | ALL PERMITS SHALL BE DELIVERED TO THE OWNER REPRESENTATIVE AS SOON AS BECOME AVAILABLE.   |
| 5.0  | DRAWINGS  |
| 5.1  | THIS CONTRACTOR SHALL PREPARE, AT HIS OWN EXPENSE, ANY LARGE SCALE WORKING DOINGS WHICH MAY BE REQUIRED BY THE EXAMINING AUTHORITIES.   |
| 6.0  | AS-BUILT DRAWINGS   |
| 6.1  | THIS CONTRACTOR SHALL KEEP A SEPARATE SET OF WHITE PRINTS ON THE SITE AND NOTE ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL DESIGN, TWO SETS OF THESE PLANS ALONG WITH UPDATED ACAD 2022 DRAWINGS SHOWING ALL AS—BUILT CONDITIONS SHALL BE FOLDED TO THE ENGINEER AT THE COMPLETION OF THIS CONTRACT BEFORE APPLYING FOR FINAL PAYMENT.   |
| 6.2  | SUBMIT TO ENGINEERS THE FOLLOWING DOCUMENTS FOR REVIEW AND APPROVAL AT THE COMPLETION OF PROJECT: —ELECTRICAL SAFETY INSPECTION CERTIFICATE —EMERGENCY ILLUMINATION LEVEL PLOTS ON FLOOR PLANS —FIRE ALARM VERIFICATION REPORT  |
| 7.0  | SHOP DRAWINGS   |
| 7.1  | SUBMIT SIX (6) COPIES OF MANUFACTURER'S SHOP DRAWINGS FOR ALL DEVICES, SYSTEMS AND SUCH FOR REVIEW BY THE ENGINEER.   |
| 8.0  | EXAMINATION OF SITE   |
| 8.1  | THIS CONTRACTOR SHALL VISIT THE SITE OF THE PROJECT AND FAMILIARIZE HIMSELF WITH THE SPECIFIC SITE CONDITIONS.  |
| 8.2  | ANY DEVIATION AND/OR CONFLICTS ON SITE ESPECIALLY CONCERNING THE DISTRIBUTION DIAGRAM (S) AS SHOWN ON THE PLANS, SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING TENDER.  |
| 9.0  | CONSTRUCTION SCHEDULE   |
| 9.1  | THIS CONTRACTOR SHALL SCHEDULE AND PERFORM HIS WORK TO MEET THE COMPLETION SCHEDULE AS SET OUT BY THE PROJECT MANAGER.  |
| 10.0 | REVISION AND EXTRAS   |
| 10.1 | NO ADDITIONAL MONEY OVER THE CONTRACT PRICE SHALL BE PAID UNLESS AN APPROVED CHANGE ORDER IS ISSUED BY THE ENGINEER. CLAIMS FOR EXTRAS SHALL BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES, ETC. THERE SHALL BE NO EXTRA CLAIM FOR RELOCATION OF ANY EQUIPMENT WITHIN 10 FEET FROM ORIGINAL LOCATION.  |
| 11.0 | CLEAN UP  |
| 11.1 | THIS CONTRACTOR SHALL BE RESPONSIBLE TO PERIODICALLY REMOVE ALL DEBRIS AND TO KEEP THIS AREA CLEAN AT ALL TIMES.  |
| 12.0 | CUTTING AND PATCHING  |
| 12.1 | ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING, OPENINGS, ETC. AND SHALL INFORM THE GENERAL CONTRACTOR OF ALL CUTS AND PATCHES SO THAT THE COSTS ARE INCLUDED AND SHALL INFORM THE GENERAL CONTRACTOR IN SUFFICIENT TIME TO PREVENT UNNECESSARY CUTTING, ANY DAMAGE DUE TO EXISTING FLOORS AND WALLS DURING REMOVAL OF EXISTING INSTALLATIONS SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINISHES.  |
| 13.0 | EXISTING SLAB   |
| 13.1 | THIS CONTRACTOR SHALL NOT INSTALL RIGID CONDUIT AND FLOOR BOXES IN EXISTING STRUCTURE FLOOR SLABS OR FRAMING OR CUT EXISTING STRUCTURAL SLABS AND FRAMING FOR THIS PURPOSE IN SUCH A MANNER THAT THE STRUCTURAL INTEGRITY OF THE FLOOR IS WEAKENED, COORDINATE SUCH WORK WITH THE ARCHITECT OR STRUCTURAL ENGINEER  |
| 14.0 | DELIVERY DATES  |
| 14.1 | THIS CONTRACTOR SHALL PLACE AN ORDER FOR ALL MATERIAL AND EQUIPMENT IMMEDIATELY AFTER SIGNING OF THE CONTRACT. HE SHALL SUBMIT A LIST OF DELIVERY DATES FOR EACH TYPE OF EQUIPMENT WITHIN 10 DAYS OF THE AWARDS OF THE CONTRACT. THE LIST SHALL INCLUDE MANUFACTURER'S NAMES.   |
| 15.0 | EQUIPMENT AND MATERIAL  |
| 15.1 | GROUNDING SHALL BE AS REQUIRED BY ELECTRICAL CODE AND THE APPROVAL OF ALL EQUIPMENT AND MATERIAL UNLESS SPECIFICALLY NOTED OTHERWISE. SHALL BE NEW AND WITHOUT BLEMSH OR DEFECT. ALL MATERIAL AND EQUIPMENT SHALL BE OF THE TYPE SUBJECT TO FACTORY MUTUAL, "UNDERWRITERS' LABORATORIES OF CANADA" OR "CANADIAN STANDARDS ASSOCIATED INSPECTION AND APPROVAL" AND SHALL BEAR "U.L.C." OR "C.S.A." LABELS.   |

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| 16.0  | DEMONSTRATION OF THE SYSTEM   |
| 16.1  | DEMONSTRATE THE FUNCTION AND OPERATION OF EACH SYSTEM IN MAINTENANCE STAFF OWNER AND CONSULTANT PRESENCE. CO-ORDINATE COMMISSIONING AND TRAINING SCHEDULE WITH ALL PARTIES  |
| 17.0  | IDENTIFICATION  |
| 17.1  | PROVIDE LAMACOD IDENTIFICATION NAMEPLATES. THESE SHALL BE BLACK WITH WHITE ENGRAVED LETTERS AND SHALL BE INSTALLED WITH SCREWS ON ALL EQUIPMENT, DISCONNECT SWITCHES, PANELS, ETC. INDICATING THE LOAD SERVED. EACH LIGHTING PANEL SHALL HAVE A TYPE WRITTEN DIRECTLY SHOWING LIGHTS OR EQUIPMENT CONNECTED TO EACH CIRCUIT. DIRECTORIES SHALL BE MOUNTED ON THE INSIDE OF THE PANEL DOOR WITH A TRANSPARENT PLASTIC COVER.   |
| 18.0  | COORDINATION  |
| 18.1  | THIS CONTRACTOR SHALL BE RESPONSIBLE TO CO-ORDINATE THE INSTALLATION OF EQUIPMENT, CONDUIT WORK, LIGHTING FIXTURES, ETC. WITH OTHER TRADES AND THE PROJECT MANAGER PRIOR TO THE ACTUAL INSTALLATION.  |
| 19.0  | ACCESSIBILITY   |
| 19.1  | ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS.  |
| 20.0  | RESPONSIBILITY  |
| 20.1  | THIS TRADE SHALL BE RESPONSIBLE FOR THIS WORK UNTIL THE COMPLETION AND FINAL ACCEPTANCE. FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT   |
| 21.0  | WARRANTEE   |
| 21.1  | THIS CONTRACTOR SHALL WARRANT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT, AGAINST ALL DEFECTS OR WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BE THE OWNER.   |
| 22.0  | CONDUIT AND FITTINGS  |
| 22.1  | CONDUIT SIZES SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL NOT BE REDUCED IN SIZE WITH OUT AUTHORIZATION. CONDUIT IN FINISHED AREAS SHALL BE CONCEALED. ALL CONDUIT SHALL BE INSTALLED PARALLEL TO BUILDING LINES, MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.  |
| 22.2  | CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 6" (152MM) FROM UNINSULATED HEATING PIPES.  |
| 22.3  | CLEAN INTERIOR OF ALL CONDUITS TO REMOVE WATER AND DEBRIS BEFORE PULLING WIRES.   |
| 22.4  | 8X CABLES SHALL BE USED FOR FINAL SHORT CONNECTIONS BETWEEN OUTLET AND OUTLET BOX IN CEILING SPACE TO CEILING MOUNTED LIGHTING FIXTURES OR TO FEED OUTLETS, RECEPTACLES IN THE DRYWALL PARTITIONS, 8X CABLES ARE NOT ALLOWED TO RUN IN THE OPENED ROOF OR UNDER FLOOR.  |
| 22.5  | EMPLY FLEXIBLE STEEL CONDUIT 1/2" (13MM) MINIMUM DIAMETER AND A MAXIMUM OF 6 FEET (1830MM) OR (1.83M) LONG, WITH A FISH WIRE AS INDICATED IN THE DRAWINGS CAN ALSO BE USED.   |
| 22.6  | FOR FIREPROOFING WHERE HOLES ARE DRILLED THROUGH FLOORS OR WALLS, THEY SHALL BE PACKED AROUND CONDUIT WITH 3/8" BRAND FIRE BARRIER CAULK CP25 OR 303 PUTTY COMPOUND, MINIMUM CONDUIT SHALL BE 3/4" (19MM), UNLESS OTHERWISE NOTED.  |
| 22.7  | CONDUITS AND ARMoured CABLES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING.   |
| 22.8  | SUPPLY AND INSTALL CONDUIT FOR WIRING AND CABLES WHERE THERE IS NO SUSPENDED CEILING CAPE.  |
| 23.0  | PULL AND JUNCTION BOXES   |
| 23.1  | BOXES SHALL BE CODE GAUGE AND SIZES TO MEET THE ELECTRICAL CODE REQUIREMENT. SHEET STEEL BOXES FOR CONCEALED WORK AND CAST BOXES FOR EXPOSED WORK.  |
| 23.2  | PROVIDE BARRIERS IN BOXES WHERE DIFFERENT VOLTAGE ARE USED  |
| 23.3  | PROVIDE PULL BOXES ON CONDUIT AT 50' OR 115.05MM INTERVALS  |
| 23.4  | BOXES SHALL BE SUPPORTED INDEPENDENTLY OF CONDUIT   |
| 24.0  | INSTALLATION OF OUTLETS   |
| 24.1  | THE PLANS SHOW APPROXIMATE LOCATION OF OUTLETS, EXACT LOCATION SHALL BE COORDINATED ON THE SITE WITH OTHER TRADES, ARCHITECTURAL PLANS, ETC. OUTLETS INACURATELY LOCATED SHALL BE RE—ADJUSTED OR RELOCATED AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED ON THE PLAN (S), LOCATE OUTLETS AS FOLLOWS:  |
| 24.2  | RECEPTACLES, TELEPHONE OUTLETS 18" ABOVE FINISHED FLOOR   |
| 24.3  | OUTLETS OVER COUNTER 24" ABOVE FLOOR OR 24" ABOVE COUNTER ON JOB.   |
| 24.4  | OUTLETS IN MECHANICAL, ELECTRICAL AND TELEPHONE ROOMS 47" (1200MM) ABOVE FLOOR.   |
| 24.5  | LIGHT 8 SWITCHES 47" TO TOP FROM FINISHED FLOOR.  |
| 25.0  | WIRE AND CABLE  |
| 25.1  | UNLESS OTHERWISE NOTED, ALL WIRES SHALL BE COPPER R60, RW90, RA90 OR RVU90 RATING AS REQUIRED ON SITE AND AS DICATED BY THE CODE. ALUMINIUM WIRE SHALL NOT BE USED.   |
| 25.2  | THE MINIMUM PERMISSIBLE SIZE FOR BRANCH CIRCUIT WIRING SHALL BE #12 (20M), EXCEPT FOR EMERGENCY LIGHTING SYSTEM SHALL BE MIN. #10.  |
| 25.3  | FOR BRANCH WIRING EXCEEDING 100 FEET (30.5M) TO FURTHEST OUTLET FROM A PANEL SHALL BE #10 AT 120 VOLTS.   |
| 25.4  | WIRES AND CABLES SHALL BE ACCEPTED AND O.K'S EXCEPT FOR LOW VOLTAGE CONTROL WIRING WHICH SHALL RATED AT 300V.   |
| 25.5  | ALL WIRES SHALL BE NEW AND DELIVERED TO THE SITE OF THE PROJECT IN THEIR ORIGINAL PACKING. WIRES #10 AND BIGGER SHALL BE STRANDED. THIS DENOTES GAUGE #8, #6, #4, ETC. WIRES SHALL BE FACTORY IDENTIFIED, SHOWING SIZE, VOLTAGE RATING AND INSULATION TYPE  |
| 25.6  | PROVIDE SEPARATE INSULATED GROUND CONDUCTOR FOR EACH FEEDER AND BRANCH CIRCUIT  |
| 25.7  | FINAL LUMINAIRE CONNECTIONS SHALL ORIGINATE FROM AN OUTLET BOX. CONNECTIONS OF FIXTURE BODY TO FIXTURE BODY SHALL NOT BE ACCEPTABLE.  |
| 25.8  | CODE APPROVED WIRE SHALL BE USED FOR FINAL LUMINAIRE OR APPLIANCE CONNECTIONS   |
| 26.0  | QUALITY ASSURANCE   |
| 26.1  | ALL MATERIALS SHALL BE OF HIGH QUALITY COMMERCIAL GRADE AND SHALL BE CSA APPROVED.  |
| 26.2  | ENSURE THAT MATERIALS AND EQUIPMENT ARE DELIVERED TO THE SITE AT THE PROPER TIME AND IN SUCH ASSEMBLIES AND SIZES SO AS TO ENTER INTO THE BUILDING AND TO BE MOVED INTO THE BUILDING AND THERE THEY ARE TO BE LOCATED WITHOUT DIFFICULTY. BE RESPONSIBLE FOR CUTTING AND PATCHING INVOLVED IN GETTING ASSEMBLIES INTO PLACE.  |
| 26.3  | REPLACE WORK UNSATISFACTORY TO THE CONSULTANT AT EXTRA COST.  |
| 26.4  | PROTECT FROM DAMAGE ALL EQUIPMENT DELIVERED TO THE SITE AND DURING INSTALLATION, ANY DAMAGE OR MARKING OF FINISHED SURFACES SHALL BE MADE GOOD TO THE SATISFACTION OF THE CONSULTANT.   |
| 26.5  | ALL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE UNCONDITIONALLY GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. OBTAIN WRITTEN APPROVAL FROM OWNER BEFORE PROCEEDING.  |
| 26.6  | INSTALL EQUIPMENT, CONDUIT AND CABLES IN A WORKMANLIKE MANNER TO BEST SUIT SPACE, TO PRESENT A NEAT APPEARANCE AND TO FUNCTION PROPERLY TO THE SATISFACTION OF THE CONSULTANT. INSTALL EQUIPMENT AND APPARATUS REQUIRING MAINTENANCE ADJUSTMENT OR REPLACEMENT WITH DUE ALLOWANCE THEREFORE.  |
| 26.7  | IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SUPPORT LITIGATING FIXTURES ADEQUATELY.   |
| 27.0  | CODE COMPLIANCE   |
| 27.1  | THE WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ONTARIO ELECTRICAL SAFETY CODE, THE CANADIAN ELECTRICAL CODE, THE ONTARIO BUILDING CODE AND ALL AUTHORITIES HAVING JURISDICTION.   |
| 27.2  | SUBMIT THE REQUESTS NUMBER OF SETS OF PLANS AND SPECIFICATIONS, TO THE ELECTRICAL SAFETY AUTHORITY. CONTRACTOR TO SET FINAL APPROVALS FROM ALL AUTHORITIES, C/W ESA CERTIFICATION AND PAY ALL FEES.   |
| 27.3  | THIS DIVISION SHALL FIVE ALL NECESSARY NOTICES AND OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES. FURNISH ALL USUAL CERTIFICATES AS REQUIRED AS WORK INSTALLS. AS REQUIRED BY THE LAWS AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION, BEFORE FINAL PAYMENT OF CONTRACT IS MADE.  |
| 28.0  | BASIC MATERIALS & METHODS   |
| 28.1  | EMT (THINWALL) CONDUIT, TO C.S.A. C222 NO. 83, COMPLETE WITH FACTORY MADE BENDS WHERE SITE BENDING IS NOT POSSIBLE AND JOINTS AND TERMINATIONS MADE WITH SET SCREW TYPE CONNECTORS, CONCRETE TIGHT WHERE REQUIRED, MAXIMUM ALLOWABLE SIZE SHALL BE 50mm DIAMETER.   |
| 28.2  | GALVANIZED STEEL, FLEXIBLE LIQUID—TIGHT METALLIC CONDUIT, TO C.S.A. C222 NO. 56, COMPLETE WITH PROPER AND SUITABLE LIQUID—TIGHT FLEXIBLE CONDUIT CONNECTORS AT TERMINATIONS.  |
| 28.3  | INSTALL CONDUIT AND CONDUCTORS SHALL BE CONCEALED IN ALL FINISHED AREAS AND CONCEALED TO THE DEGREE MADE POSSIBLE BY FINISHES IN PAINTED AREAS. CONDUIT MAY BE EXPOSED IN UNFINISHED AREAS UNLESS OTHERWISE NOTED ON THE DRAWING S OR SPECIFIED HEREIN.   |
| 28.4  | WHERE CONDUIT AND OR CONDUCTORS ARE EXPOSED ARRANGE SAME TO AVOID INTERFERENCE WITH OTHER WORK AND PARALLEL TO BUILDING LINES WHERE HORIZONTAL CONDUIT AND CONDUCTORS ARE EXPOSED, INSTALL AS HIGH AS POSSIBLE. DO NOT INSTALL CONDUIT AND/OR CONDUCTORS WITHIN 150mm OF FLUE OR HEATING PIPES OR EQUIPMENT.  |
| 28.5  | CONDUCTORS SHALL BE COPPER "RV90" SINGLE CONDUIT TO C.S.A. C222, COLOR CODED, 75 DEG. C, RATED WITH APPROVED MANUFACTURED CONNECTORS AT JOINTS IN CONDUIT. THE CONDUIT WITHIN THE BUILDING SHALL BE EMT EXCEPT WHERE INDICATED OTHERWISE.   |
| 28.6  | BRANCH CIRCUIT CONDUCTORS UP TO AND INCLUDING #10 AWG MAY BE SOLID. CONDUCTORS GREATER THEN #10 AWG SHALL BE STRANDED. ALL CONDUCTORS SHALL BE CONSTRUCTED OF HIGH CONDUCTIVITY COPPER, MINIMUM POWER CONDUCTOR SIZE SHALL BE #12AWG, MINIMUM CONDUIT SIZE SHALL BE 21mm.   |
| 28.7  | BRANCH WIRING FOR 120V SHALL BE #12 AWG UP TO 18m IN LENGTH MAXIMUM, ANY LENGTHS GREATER THAN 18m AND LESS THAN 36m SHALL BE #10 AWG, ANY LENGTH GREATER THAN 36m SHALL BE SIZED TO SUIT EQUIPMENT AND VOLTAGE DROP.  |
| 28.8  | PROVIDE ALL REQUIRED STEEL PULL AND JUNCTION BOXES OF SUFFICIENT SIZE TO TAKE RACEWAY ENTERING THEM, CONDUCTORS, AND CONNECTIONS THERE TO WITHOUT CROWDING. PULL BOXES AND JUNCTION BOXES SHALL BE CONSTRUCTED OF GALVANIZED OR PRIME COATED STEEL, EACH SHALL BE SUITABLE IN ALL RESPECTS FOR THE APPLICATIONS, AND COMPLETE WITH SCREW—ON HINGED COVERS AS REQUIRED. THE PHYSICAL SIZE OF PULL BOXES SHALL BE AS REQUIRED BY THE "CODE" TO SUIT THE NUMBER AND SIZE OF CONDUITS AND CONDUCTORS. PROVIDE PULL BOXES IN CONDUIT SYSTEMS WHEREVER NECESSARY TO FACILITATE CONDUCTOR INSTALLATIONS. GENERALLY, CONDUIT RUNS EXCEEDING 30M IN LENGTH, OR WITH MORE THAN TWO (2) 90 DEGREE BENDS SHALL BE EQUIPPED WITH A PULL BOX. INSTALLED AT A CONVENIENT AND SUITABLE INTERMEDIATE LOCATION. PROVIDE BOXES WITH SCREWED COVERS UNLESS OTHERWISE INDICATED. |
| 28.9  | INSTALL SWITCHES, DEVICES, OUTLETS, AND RECEPTACLES FOR EXPOSED WORK IN FS AND FD CAST GALVANIZED STEEL BOXES OR ALUMINIUM FITTINGS.  |
| 28.10 | PROVIDE EACH DEVICE, FIXTURE, EQUIPMENT IN FINISHED AREAS WITH SUITABLE FLUSH MOUNTED OUTLET BOX COMPLETE WITH GROUND LUG AND ADAPTED TO THE RESPECTIVE LOCATION.   |
| 28.11 | PROVIDE ELECTRO GALVANIZED STEEL SINGLE AND MULTI WANG FLUSH DEVICE BOXES FOR FLUSH INSTALLATIONS. PROVIDE ELECTRO GALVANIZED STEEL UTILITY BOXES FOR OUTLETS CONNECTED TO SURFACE MOUNTED EMT CONDUIT IN INTERIOR APPLICATIONS. PROVIDE 4" OCTAGONAL BOXES FOR LIGHTING FIXTURE OUTLETS AND SQUARE OUTLET BOXES WITH EXTENSION AND PLASTER RINGS FOR FLUSH MOUNTING IN FINISHED PLASTER WALL APPLICATIONS.   |
| 28.12 | 15A, 120V LIGHT SWITCHES SHALL BE TOGGLE TYPE SPECIFICATION GRADE HUBBELL MODEL #CSB 115V OR APPROVED EQUIVALENT.   |
| 28.13 | ALL LIGHT SWITCHES SHALL HAVE STAINLESS STEEL COVER PLATE TO SUIT.  |
| 28.14 | 15A, 120V, 1PH, 3W GROUNDED MODEL #HBL582WV OR APPROVED EQUIVALENT. PROVIDE WEATHERPROOF RECEPTACLES WHERE INDICATED HUBBELL MODEL #HBL262WV OR APPROVED EQUIVALENT. PROVIDE GFI RECEPTACLES WHERE INDICATED HUBBLE MODEL # GFI5WL OR APPROVED EQUIVALENT.  |
| 28.15 | 30A, 125/250V, SINGLE, TWISTLOCK RECEPTACLES SHALL BE HUBBELL MODEL #HBL27 10 OR APPROVED EQUIVALENT.   |
| 28.16 | ALL COVER PLATES FOR RECEPTACLES IN FINISHED AREAS SHALL BE STAIN LESS STEEL BRUSHED FINISH. COVER PLATES, IN UNFINISHED AREAS SHALL BE GALVANIZED METAL.   |
| 28.17 | OCCUPANCY SENSORS FOR 120V LIGHTING FIXTURES SHALL BE HUBBELL MODEL #ATD 2000PCP C/W POWER PACK MODEL ECU 120A. ALL SENSORS SHALL BE SET TO 30 MINUTE "DELAY TO OFF" UNLESS OTHERWISE DIRECTED. ACCEPTABLE ALTERNATE MANUFACTURES ARE LEVITON AND WATTSSTOPPER OR APPROVED EQUAL.   |
| 28.18 | PRIOR TO ELECTRICAL, ROUGH—IN, CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DIVISIONS FOR EXACT EQUIPMENT LOCATION.  |
| 28.19 | WHERE ELECTRICAL MATERIAL OR DEVICES PASS THROUGH FIRE RATED SEPARATIONS, MAKE PENETRATIONS AND PROVIDE FIRE BARRIER DETAILS WITHIN THE RATING EQUIVALENT OF THE SEPARATION. ACCEPTABLE MANUFACTURES SHALL BE 3M OR APPROVED EQUAL.   |

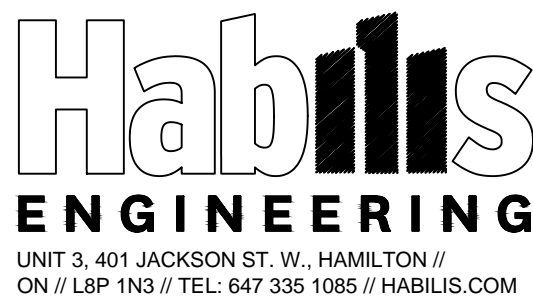
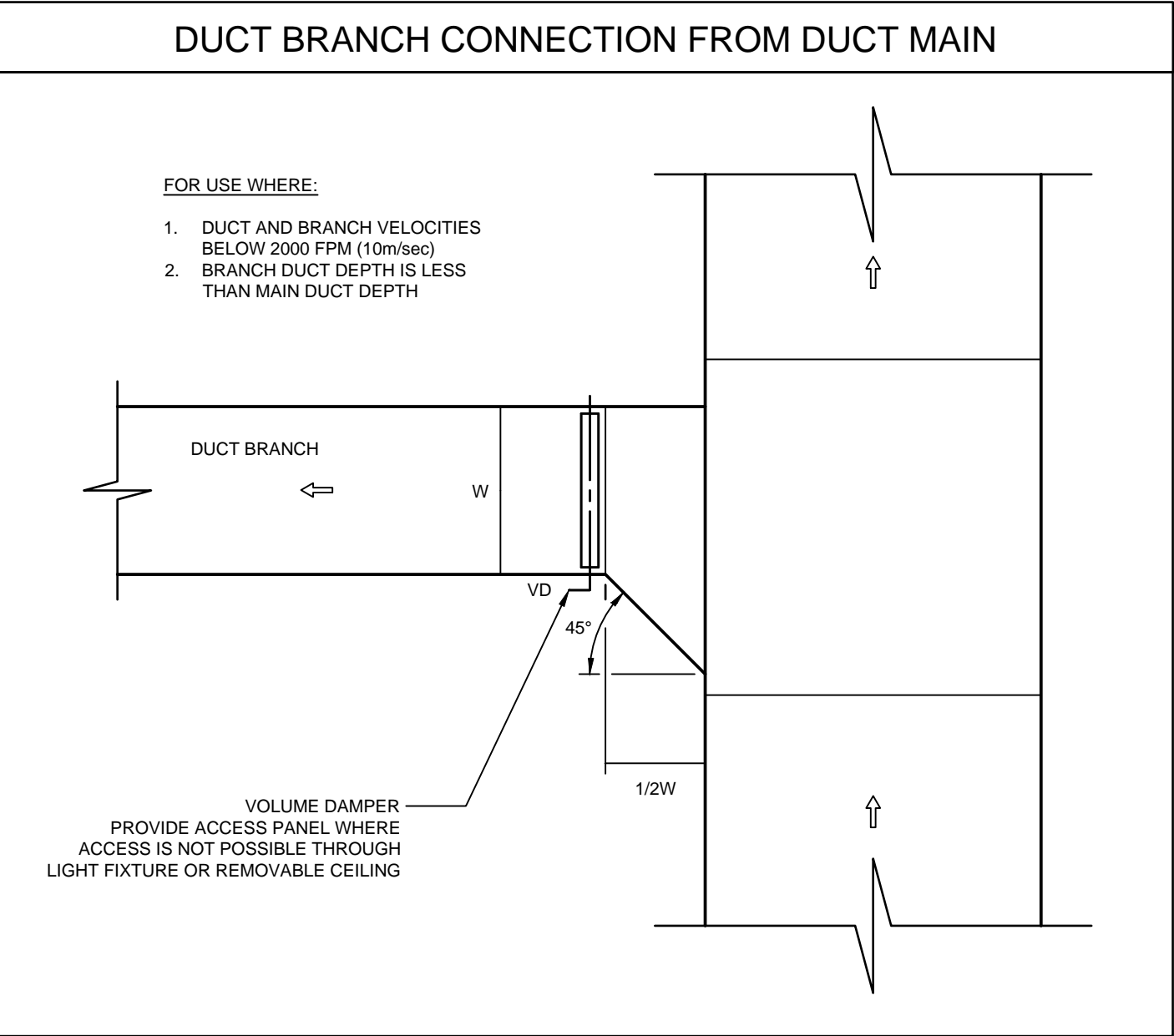
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|-------|--|
| 29.0  | CONNECTORS FOR WIRES   |
| 29.1  | PROVIDE AN APPROVED TYPE WIRE CONNECTOR SIMILAR TO "IDEAL" OR "SUPER—NUT".   |
| 30.0  | POWER DISTRIBUTION SYSTEM  |
| 30.1  | THE POWER DISTRIBUTION SYSTEM SHALL BE AS SHOWN ON THE PLANS AND AS HEREINAFTER SPECIFIED.   |
| 30.2  | LIGHTING PANEL   |
| 30.3  | PANEL BOARDS SHALL BE COMPLETE WITH COPPER BUS, HINGED LOCKABLE DOORS, DRIP HOODS, BOLT—ON TYPE, FULL SIZE BREAKERS, BALANCE LOAD ON ALL PHASES TO WITHIN 5%, PROVIDE "LOCK-ON" DEVICES FOR BREAKERS CONTROLLING NIGHT LIGHTS & EXIT LIGHTS, EMERGENCY LIGHTS, ALARM SYSTEM, THE INTERRUPTING CAPACITY SHALL BE 10KA FOR 120/208V PANELS AND 18KA FOR 347/600V PANELS (CONTRACTOR TO VERIFY).  |
| 31.0  | MECHANICAL EQUIPMENT   |
| 31.1  | UNLESS OTHERWISE SHOWN ON PLANS, FOR MECHANICAL EQUIPMENT PROVIDED BY THE MECHANICAL TRADE REQUIRING ELECTRICAL POWER, THE ELECTRICAL TRADE SHALL PROVIDE:   |
| 31.2  | THE NECESSARY POWER DISTRIBUTION EQUIPMENT AT THE ELECTRICAL ROOM.   |
| 31.3  | THE NECESSARY CONDUIT AND WIRE TO THE MECHANICAL EQUIPMENT LOCATION.   |
| 31.4  | A TERMINATING DISCONNECT SWITCH AND  |
| 31.5  | ANY MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS.   |
| 31.6  | CO-ORDINATE EXACT LOCATIONS WITH THE MECHANICAL TRADE AND RELATED DRAWINGS.  |
| 31.7  | ALL CONDUIT, WIRING, AND LABOUR TO BE LOCATED TO THE MECHANICAL EQUIPMENT INCLUDING STARTERS AND LOW VOLTAGE CONTROLS SHALL BE PROVIDED BY THE MECHANICAL TRADE.   |
| 31.8  | UNLESS OTHERWISE INDICATED, ALL SPECIFIED ELECTRICAL HEATING EQUIPMENT TOGETHER WITH THE CONTROL THERMOSTATS, CONDUIT, WIRE, ETC. AND ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL TRADE.   |
| 31.9  | THE ELECTRICAL TRADE SHALL VERIFY ALL MOTOR CONNECTIONS FOR PROPER PHASE ROTATION, WHERE APPLICABLE.   |
| 32.0  | WIRING DEVICES   |
| 32.1  | DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE MINIMUM RATED FOR 15A, 120V, SPECIFICATION GRADE AND DECORA TYPE UNLESS OTHERWISE SPECIFIED ON PLANS. THESE SHALL HAVE BREAK—OFF LINE TO ALLOW FOR SPILT WIRING OR 2 CIRCUITS. EQUIVALENT MATERIALS SHALL BE ACCEPTED AS LONG AS THEY ARE EQUIVALENT IN ALL RESPECTS, I.E. SAME LENSES, SPECIFICATION GRADE. GENERAL PURPOSE RECEPTACLE SHALL BE WHITE AND RECEPTACLES DEDICATED FOR ELECTRONIC EQUIPMENT SUCH AS COMPUTERS, COPIER ETC. SHALL BE GRAY IN COLOUR.   |
| 32.2  | CLEAN INTERIOR OF ALL CONDUITS TO REMOVE WATER AND DEBRIS BEFORE PULLING WIRES.  |
| 32.3  | CLEAR INTERIOR OF ALL CONDUITS TO REMOVE WATER AND DEBRIS BEFORE PULLING WIRES.  |
| 32.4  | 8X CABLES SHALL BE USED FOR FINAL SHORT CONNECTIONS BETWEEN OUTLET AND OUTLET BOX IN CEILING SPACE TO CEILING MOUNTED LIGHTING FIXTURES OR TO FEED OUTLETS, RECEPTACLES IN THE DRYWALL PARTITIONS, 8X CABLES ARE NOT ALLOWED TO RUN IN THE OPENED ROOF OR UNDER FLOOR.   |
| 32.5  | EMPLY FLEXIBLE STEEL CONDUIT 1/2" (13MM) MINIMUM DIAMETER AND A MAXIMUM OF 6 FEET (1830MM) OR (1.83M) LONG, WITH A FISH WIRE AS INDICATED IN THE DRAWINGS CAN ALSO BE USED.  |
| 32.6  | FOR FIREPROOFING WHERE HOLES ARE DRILLED THROUGH FLOORS OR WALLS, THEY SHALL BE PACKED AROUND CONDUIT WITH 3/8" BRAND FIRE BARRIER CAULK CP25 OR 303 PUTTY COMPOUND, MINIMUM CONDUIT SHALL BE 3/4" (19MM), UNLESS OTHERWISE NOTED.   |
| 32.7  | CONDUITS AND ARMoured CABLES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING.  |
| 32.8  | SUPPLY AND INSTALL CONDUIT FOR WIRING AND CABLES WHERE THERE IS NO SUSPENDED CEILING CAPE.   |
| 33.0  | LUMINAIRES AND LAMPS   |
| 33.1  | PROVIDE LUMINAIRES AND LAMPS AS INDICATED ON THE LUMINAIRE SCHEDULE AND / OR AS SPECIFIED UNDER THIS SECTION. THESE MUST AND SHALL BE COMPLETE WITH ALL NECESSARY PLASTER FRAMES, HANGERS, LAMPS, LOUVERS, DIFFUSERS, CANDIEPS, SUPPORTS, ETC.   |
| 33.2  | CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE LUMINAIRE (S) THAT ARE BEING SPECIFIED, IF AN ALTERNATE MANUFACTURER IS NAMED, IT IS MANDATORY THAT THE LUMINAIRE BE EQUIVALENT IN ALL RESPECTS, I.E. SAME LENSES, EQUIVALENT FRAME, PERFORMANCE, PAINT FINISH, BALLAST, CONSTRUCTION QUALITY, ETC.), ALTERNATE MANUFACTURERS OR ALTERNATE TYPES SHALL BE ALTERNATE ONLY TO THE BASE BID, WITH A SEPARATE PRICE STATED IN THE TENDER. LOW BIDDER WILL BE DETERMINED ON THE BASIS OF THE SPECIFIED ITEMS NOT "ALTERNATE SAVINGS".   |
| 33.3  | CO-ORDINATE THE MOUNTING AND LOCATION OF LUMINAIRES WITH OTHER TRADES TO AVOID CONFLICTS.  |
| 33.4  | LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED AFTER ALL EQUIPMENT IS IN PLACE. THIS CONTRACTOR SHALL REMOVE AND DISPOSE OF LIGHTING LUMINAIRE NOT BEING RE—USED UNDER NO SCHEME WHETHER SHOWN ON DOING OR NOT.  |
| 33.5  | INCLUDE FOR THIRD PARTY FUNCTIONAL TESTING OF ALL LIGHTING CONTROL DEVICES AND SYSTEMS.  |
| 34.0  | VOICE/DATA CONDUIT SYSTEM  |
| 34.1  | PROVIDE CONDUIT SYSTEM FOR WIRING UNDER THIS CONTRACT AS SHOWN ON THE PLANS.   |
| 34.2  | CONDUIT (OTHER THAN NCMING) SHALL BE (EMT) THINWALL WITH PVC END BUSHING AT BOTH ENDS AND 90 DEG ELBOW.  |
| 34.3  | CURRENT INDICATED ON DRAWING S SHALL BE USED TO DETERMINE THE TYPE AND SIZE OF CONDUIT TO BE USED.   |
| 34.4  | A MAXIMUM OF 2 LONG RADUS 90 DEGREE BENDS SHALL BE PROVIDED BETWEEN PULL BOXES.  |
| 35.0  | MISCELLANEOUS  |
| 35.1  | PROVIDE EMERGENCY LIGHTING, TIME SWITCHES, DOOR BELL SYSTEM, NIGHT LIGHTS SIGN CIRCUITS AND ANY OTHER EQUIPMENT AND / OR CONDUIT WIRE AND CONNECTIONS AS SHOWN ON THE DRAWINGS.  |
| 36.0  | ELECTRICAL DISTRIBUTION  |
| 36.1  | THE PANELBOARD SHALL BE AS SCHEDULED ON DRAWINGS AND AS SPECIFIED HEREIN AFTER. DISTRIBUTION PANELBOARDS 1 20240V, 1 PHASE 3W. PANELBOARDS FOR DISTRIBUTION OF POWER AND LIGHTING CIRCUITS SHALL BE SUITABLE FOR 120/240V, 1 PHASE, 3W OPERATION AS INDICATED, WITH AMPACITY AND CIRCUITS AS SHOWN, AND WITH BOLT—ON CIRCUIT BREAKERS HAVING AN INTERRUPTING CAPACITY AT RATED VOLTAGE TO MEET AVAILABLE FAULT CURRENT AS INDICATED ON DRAWINGS. SERIES RATING OF BREAKERS WILL NOT BE ACCEPTABLE TO ACHIEVE FAULT CURRENT INDICATED ON DRAWING S. QUALITY, GALVANIZED STEEL WITH ALL REQUIRED KNOCK—OUTS, MINIMUM 100mm GUTTERS ON ALL FOUR SIDES, AND REMOVABLE BOX ENDS, TRIMS SHALL INCLUDE ADJUSTABLE CONCEALED FASTENERS, CONCEALED, HINGED, LOCKABLE DOORS AND SUITABLE DIRECTORY. TRIM REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING: PANELS SHALL BE IN NEMA—1 ENCLOSURE, PANELBOARD BUSING SHALL BE COPPER FLAT BARS, BUS: COPPER, HALF CAPACITY GROUND BAR AND FULL (200%) CAPACITY NEUTRAL BAR, BRACED FOR INTERRUPTING CAPACITY AS INDICATED. CIRCUIT BREAKERS: BOLT—ON, QUICK —MAKE, QUICK—BREAK, THERMAL AND MAGNETIC TRIPS, TRIP FREE HANDLE. COMMON OPERATING HANDLE ON MULTIPOLAR BREAKER. ACCEPTABLE MANUFACTURERS ARE SCHNEIDER DOR (FPE LTD., SQUARE D), EATON AND SIEMENS LTD.                |
| 36.2  | ALL SINGLE POLE BREAKERS PROVIDED FOR RECEPTACLE CIRCUITS SHALL BE RATED AT 15 AMPS, UNLESS OTHERWISE SPECIFIED. WHERE A 2 OR 4 POLE BREAKER IS REQUIRED ON THE DRAWINGS, THE BREAKER SHALL HAVE COMMON TRIP EXTENSION HANDLES WILL NOT BE ACCEPTED. BREAKERS SPECIFIED FOR USE ON POWER FEEDER CIRCUITS SHALL HAVE A FRAME SIZE AND TRIP RATING AS SCHEDULED OR OTHERWISE INDICATED.  |
| 36.3  | PROVIDE NEW BREAKERS FOR THE REPLACEMENT OF OLD PANELS AS REQUIRED. THE BREAKERS SHALL FEATURE BOLT—ON CONSTRUCTION AND A QUICK—BREAK ACTION, BE PROVIDED WITH AN ARC QUENCHING DEVICE AND HAVE TRIP —FREE HANDLES. THEY SHALL PROVIDE INVERSE TIME THERMAL OVERLOAD PROTECTION COMBINED WITH INSTANTANEOUS MAGNETIC TRIP HAVING AN INTERRUPTING RATING OF NOT LESS THAN 22,000 AMPS FOR 120/240V BREAKERS. BREAKERS SHALL BE EATON, SIEMENS, SCHNEIDER OR APTON, OR APPROVED EQUAL.   |
| 36.4  | LIGHTNING ARRESTER SHALL BE SUITABLE FOR 240/120V SINGLE—PHASE SYSTEM BY STANDARD OF ACCEPTANCE SHALL BE EQUAL TO INTERMATIC AC240I OR REVIEWED EQUIVALENT.  |
| 36.5  | SAFETY SWITCHES SHALL BE HEAVY DUTY SWITCHES. EACH SAFETY SWITCH SHALL BE FRONT OPERATED WITH RED HANDLE SUITABLE FOR PADLOCKING IN THE "OFF" POSITION AND ARRANGED SO THAT THE ENCLOSURE COVER CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION. OPERATING MECHANISMS SHALL BE QUICK—MAKE, QUICK—BREAK, POSITIVE ACTING WITH VISIBLE BLADES, AND A LINE TERMINAL SHIELD. FUSIBLE UNITS SHALL BE COMPLETE WITH FUSE CLIPS SUITABLE FOR H.R.C., CLASS "J" FUSES UNLESS OTHERWISE NOTED. EACH UNIT SHALL ALSO BE EQUIPPED WITH SOLDERLESS LUGS AND A FRONT COVER NAMEPLATE IDENTIFYING THE CATALOGUE NUMBER AND ELECTRICAL CHARACTERISTICS. EQUIPMENT FOR SAFETY SWITCHES SHALL BE UNLESS OTHERWISE NOTED. EEMAC 1 ENCLOSURES OR EEMAC 4X FOR OUTDOOR WEATHERPROOF INSTALLATIONS, THE AMPERE RATING, NUMBER OF POLES, AND FUSE REQUIREMENTS FOR SAFETY SWITCHES SHALL BE AS SPECIFIED ON THE DRAWINGS. THE DISCONNECT SWITCHES SHALL BE SELECTED AS TO BE WITHIN THE SP LUG AVAILABLE FOR THE PANEL WITH THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODE, ELECTRICAL INTERLOCK, MECHANICALLY OPERATED FROM SWITCH MECHANISM, RATED 120/240V AC, 15A, 1 NO AND 1 NC CONTACT. THE MAIN DISCONNECT SWITCH SHALL BE SERVICE ENTRANCE RATED AS SPECIFIED AND ACCEPTED BY MANUFACTURERS, ARE EATON, SQUARE D OR SIEMENS. |
| 36.6  | HAND DRYER SHALL BE TOUCH FREE TYPE. THE DRYER COMES WITH 1450 WATT / 120V AC WHICH HAS THE CAPACITY TO DRY HANDS APPROXIMATELY IN 10 SEC. THE HIGH POWER UNIT SHALL COME WITH 10 YEARS WARRANTY OR MORE WITH VANDAL PROOF FEATURE. BLAST TEST WITH 18000 LPH AIR VELOCITY, CERTIFIED BY CSA (C), NOMINAL SIZE 241 mmw x 77mmh x 172mmD. MATERIAL SHALL BE ONE PIECE GALVANIZED STEEL WITH A PORCELAIN ENAMEL FINISH WHITE, ANTI ACID AND SCRATCH RESISTANT. COMAC CORPORATION INC MODEL SC —2001 00000 OR APPROVED EQUIVALENT.  |
| 36.7  | GROUND RODS SHALL BE COPPER CLAD 20mm DIAMETER, 3m LONG. GROUNDING CONDUCTORS SHALL BE AS INDICATED ON THE DRAWINGS AND ALL POLES AND PANELS SHALL BE PROPERLY INTERCONNECTED AND BONDED.  |
| 36.8  | PROVIDE COMPLETE SYSTEMS OF ELECTRIC SERVICE GROUNDING AS OUTLINED HEREIN AS SPECIFIED AND DETAILED ON THE DRAWINGS. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF ALL GROUNDING REGULATIONS REQUIRED BUT NOT SPECIFIED HEREIN OR DETAILED ON THE DRAWINGS WHERE CONDUIT SYSTEMS ARE USED FOR GROUNDS. PROVIDE ALL NECESSARY BUSHING S, STUDS AND JUMPERS AS MAY BE REQUIRED TO MAINTAIN EFFECTIVE CONTINUITY OF GROUND. PROVIDE SEPARATE GROUND CONDUCTORS IN ALL CONDUITS. BOND THE GROUND WIRE TO ALL BOXES AND MANUFACTURED RECEPTACLES FOR PROPER GROUND CONNECTIONS WITH A NEW LAN P TYPE TERMINAL W/UTTER.  |
| 36.9  | LIGHTING CONTROL PUSHBUTTON STATIONS C/W WEATHERPROOF EEMAC BOX AND COVER FOR "ON/OFF" OPERATION, ONE STATION FOR BASEBALL LIGHTING AND ONE STATION FOR SOCCER LIGHTING. ACCEPTABLE MANUFACTURES: EATON, ALLEN—BRADLEY, SCHNEIDER OR APPROVED EQUIVALENT.  |
| 36.10 | CONTRACTOR SHALL BE EEMAC TYPE, ELECTRICALLY HELD, HEAVY DUTY, DESIGNED FOR THE APPLICATION, AUXILIARY CONTACTS, MINIMUM 2N.O. AND 2N.C. CONTROL, TRANSFORMER, FUSED PRIMARY AND SECONDARY, 120 VOLT OUTPUT, ACCEPTABLE MANUFACTURES: EATON, ALLEN —BRADLEY, BE CANADA, SCHNEIDER, SQUARE D OR APPROVED EQUIVALENT.  |
| 36.11 | TIMER SHALL BE STEEL, EEMAC 12 ENCLOSURE, (ASTRONOMIC DIAL WITH 3, NO.3 N.E 5 AMP 120 VOLT CONTACTS, ADJUSTABLE SETTING S WITH 1, "ON", 1, "OFF" PER DAY), MANUAL BYPASS SWITCH, 120 VOLT MOTOR WITH SPRING RESERVE. ACCEPTABLE MANUFACTURES: TORK, INTERMATIC, PARAGON.   |
| 36.12 | PROVIDE 120/240V, 3 PHASE, 4 WIRE SERVICE ENTRANCE FEEDER GENERALLY AS SHOWN ON THE DRAWINGS. THIS CONTRACTOR SHALL FULLY COORDINATE THE WORK AND MEET ALL REQUIREMENTS OF ALECTRA UTILITIES HYDRO.  |
| 36.13 | PROVIDE 1 RUNS OF THIRD PHASE, 4 WIRE SECONDARY CONDUCTORS IN CONCRETE ENCASED DUCT/BANK COMPRISING OF COLOR CODED, 600V,  |

| DRAWING LIST |   |               |
|--------------|---|---------------|
| DWG No       | DRAWING TITLE                                 | DRAWING SCALE |
| M01          | DRAWING LIST, MECHANICAL LEGEND AND SCHEDULES | N.T.S.        |
| M02          | MECHANICAL PLAN                               | 1:50          |
| M00          | SPECIFICATIONS                                | N.T.S.        |

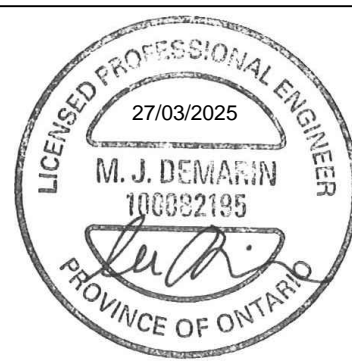
| MECHANICAL LEGEND |   |  |                             |
|-------------------|---|--|-----------------------------|
| SYMBOL            | DESCRIPTION                                       |  |                             |
|                   | SUPPLY DUCT UP / DOWN                             |  | THERMOSTAT                  |
|                   | RETURN DUCT UP / DOWN                             |  | GAS METER                   |
|                   | SUPPLY / RETURN GRILLE                            |  | WATER METER                 |
|                   | SIDE WALL SUPPLY / RETURN / EXHAUST GRILLE        |  | SWITCH                      |
|                   | NEW RECTANGULAR DUCT                              |  | SANITARY RISER              |
|                   | NEW ROUND DUCT                                    |  | CONTROL VALVE               |
|                   | SINGLE LINE SUPPLY DUCT                           |  | SHUT OFF VALVE              |
|                   | SINGLE LINE RETURN / EXHAUST DUCT                 |  | CIRCUIT BALANCING VALVE     |
|                   | BALANCING DAMPER                                  |  | CHECK FLOW CONTROL VALVE    |
|                   | FIRE DAMPER                                       |  | PRESSURE GAGE               |
|                   | INSULATION  |  | CAP / PLUG                  |
|                   | CLEARANCE OUTLINE                                 |  | FLOW DIRECTION              |
|                   | SQUARE PLATE DIFFUSER (SIZE IS TO SCALE ON PLANS) |  | PIPE BREAK                  |
|                   | DOMESTIC COLD WATER                               |  | PUMP                        |
|                   | DOMESTIC RECIRC WATER                             |  | STRAINER                    |
|                   | SANITARY  |  | THERMOMETER                 |
|                   | SANITARY BELOW FLOOR                              |  | UNION                       |
|                   | STORM WATER                                       |  | SIAMESE CONNECTION          |
|                   | STORM WATER BELOW FLOOR                           |  | FIRE HOUSE CABINET          |
|                   | FIRE  |  | ROOF DRAIN                  |
|                   | SPRINKLER (P1)                                    |  | SCUPPER DRAIN               |
|                   | SPRINKLER   |  | PARKING DRAIN               |
|                   | STAND PIPE  |  | FIRE FLOOR DRAIN            |
|                   | GAS   |  | HUB DRAIN                   |
|                   | GAS BELOW FLOOR                                   |  | IN / ABOVE FLOOR CLEAN OUT  |
|                   | DRAIN   |  | ELBOW DOWN / EX. ELBOW DOWN |
|                   | PIPE HEAT TRACE                                   |  | ELBOW UP / EX. ELBOW UP     |
|                   | DUCT CONTINUATION                                 |  | P-TRAP                      |
|                   | AIR FLOW DIRECTION                                |  | IN / ABOVE FLOOR CLEAN OUT  |
|                   | EQUIPMENT TAG                                     |  | HUB FLOOR DRAIN             |
|                   | AIR DIFFUSER / GRILLE / LOUVER TAG                |  | FUNNEL FLOOR DRAIN          |
|                   | KEYED NOTE  |  | CONNECT TO EXISTING         |
|                   | CO2 SENSOR  |  | TYPICAL                     |
|                   |   |  | FIRE DEPARTMENT CONNECTION  |
|                   |   |  | OPEN ENDED DUCT             |
|                   |   |  | RETURN AIR                  |
|                   |   |  | SUPPLY AIR                  |
|                   |   |  | RAIN WATER LEADER           |

| UNIT VENTILATOR SCHEDULE  |                       |                |             |                |           |                             |               |      |            |               |     |                |            |         |          |             |                         |                     |          |
|---|-----------------------|----------------|-------------|----------------|-----------|-----------------------------|---------------|------|------------|---------------|-----|----------------|------------|---------|----------|-------------|-------------------------|---------------------|----------|
| TAG   | BASIS OF DESIGN       |                | SUPPLY FAN  |                |           | DX COOLING                  |               |      | DX HEATING |               |     | ELEC HEAT (KW) | ELECTRICAL |         | PHYSICAL |             | SOUND POWER LEVEL (dBA) | NOTES               |          |
|   | MANUFACTURER / MODEL  | S/A FLOW (CFM) | ESP (IN WG) | O/A FLOW (CFM) | ERV (Y/N) | CAPACITY TOT. / SENS. (MBH) | EAT / LAT (F) | EER  | CAP. (MBH) | EAT / LAT (F) | COP |                | V - PH     | MCA (A) | MOCp (A) | WxHxD (IN)  |                         |                     | WT (LBS) |
| UV-1  | SYSTEM AIR / SOPHMORE | 1200           | 0.5         | 350            | Y         | 33.5 / 23.9                 | AHRI          | 12.0 | 25         | AHRI          | 3.5 | 12.5           | 240/1      | -       | 90       | 44"x32"x91" | 1200                    | INTELLIGENTLY QUIET | 1        |
| <b>NOTES:</b><br>1. FAN MOTOR SHALL BE 3/4" HP ECM C/W 3 SPEED BOARD TO SUPPLY 1000 CFM.<br>41" x 46" EXTERIOR LOUVER C/W 22 GA. WALL SLEEVE<br>EXTERIOR LOUVER PREPAINTED TO MATCH EXTERIOR METAL SIDING.<br>UNIT WITH E.S. PROGRAMMABLE THERMOSTAT FIXED ON UNIT. |                       |                |             |                |           |                             |               |      |            |               |     |                |            |         |          |             |                         |                     |          |

| GRILLES AND DIFFUSERS & LOUVRE SCHEDULE  |                       |                        |       |        |       |
|--|-----------------------|------------------------|-------|--------|-------|
| TAG  | MANUFACTURER / MODEL  | TYPE                   | FRAME | FINISH | NOTES |
| S-1  | EH PRICE / SPD SERIES | SQUARE PLAQUE DIFFUSER | T-BAR | B12    | 1     |
| <b>NOTES:</b><br>1. PROVIDE BLANK OFFS FOR DIFFUSERS AS REPRESENTED BY 2W (2 WAY) AND 3W (3 WAY) ON PLANS BELOW EACH DIFFUSER WHEN APPLICABLE. |                       |                        |       |        |       |



STAMP



1 27/03/2025 ISSUED FOR PERMIT

No DATE DESCRIPTION

PROJECT LOGO AND ADDRESS

HAMILTON-WENTWORTH CATHOLIC DISTRICT SCHOOL BOARD

30 WENTWORTH ST NORTH L8L 8H5 AND 200 ACADIA DR L8W 1B8, HAMILTON ON

KEY PLAN

CONSTRUCTION NORTH

N

TRUE NORTH

N

DISCLAIMER

DO NOT SCALE DRAWINGS. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED WITHOUT ENGINEERS WRITTEN PERMISSION. THE CONTRACT DOCUMENTS WERE PREPARED BY THE ENGINEER FOR THE ACCOUNT OF THE OWNER. THE MATERIAL CONTAINED HEREIN REFLECT THE ENGINEERS BEST JUDGEMENT IN LIGHT OF THE INFORMATION AVAILABLE TO THEM AT THE TIME OF PREPARATION. ANY USE WHICH A THIRD PARTY MAKES OF THE CONTRACT DOCUMENTS, OR ANY RELIANCE ON OR DECISIONS TO BE MADE BASED ON THEM ARE THE RESPONSIBILITY OF SUCH THIRD PARTIES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR DAMAGE, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS ON THE CONTRACT DOCUMENTS.

JOB NUMBER 25010

SCALE N.T.S.

DATE 05/03/25

DRAWN BY MI

REVIEWED BY MD

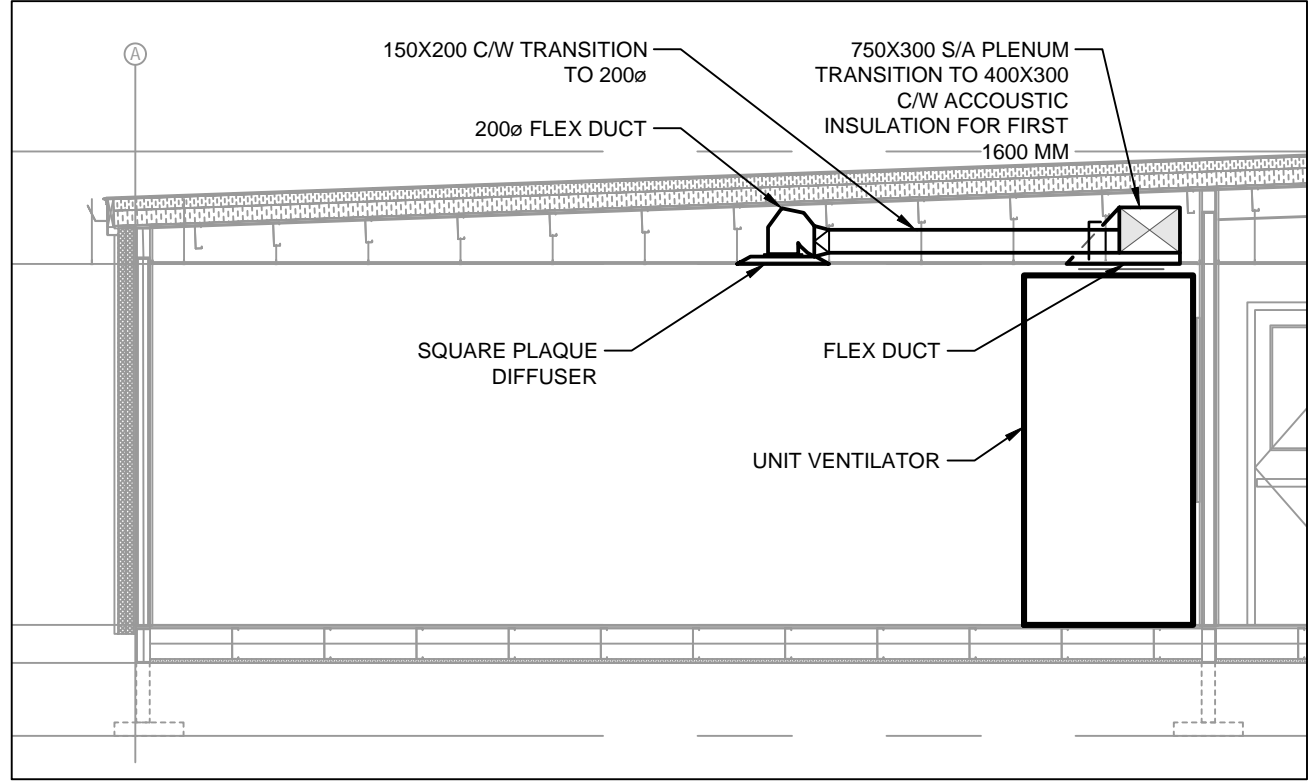
REVISION

DRAWING NAME

DRAWING LIST, MECH LEGEND AND SCHEDULES

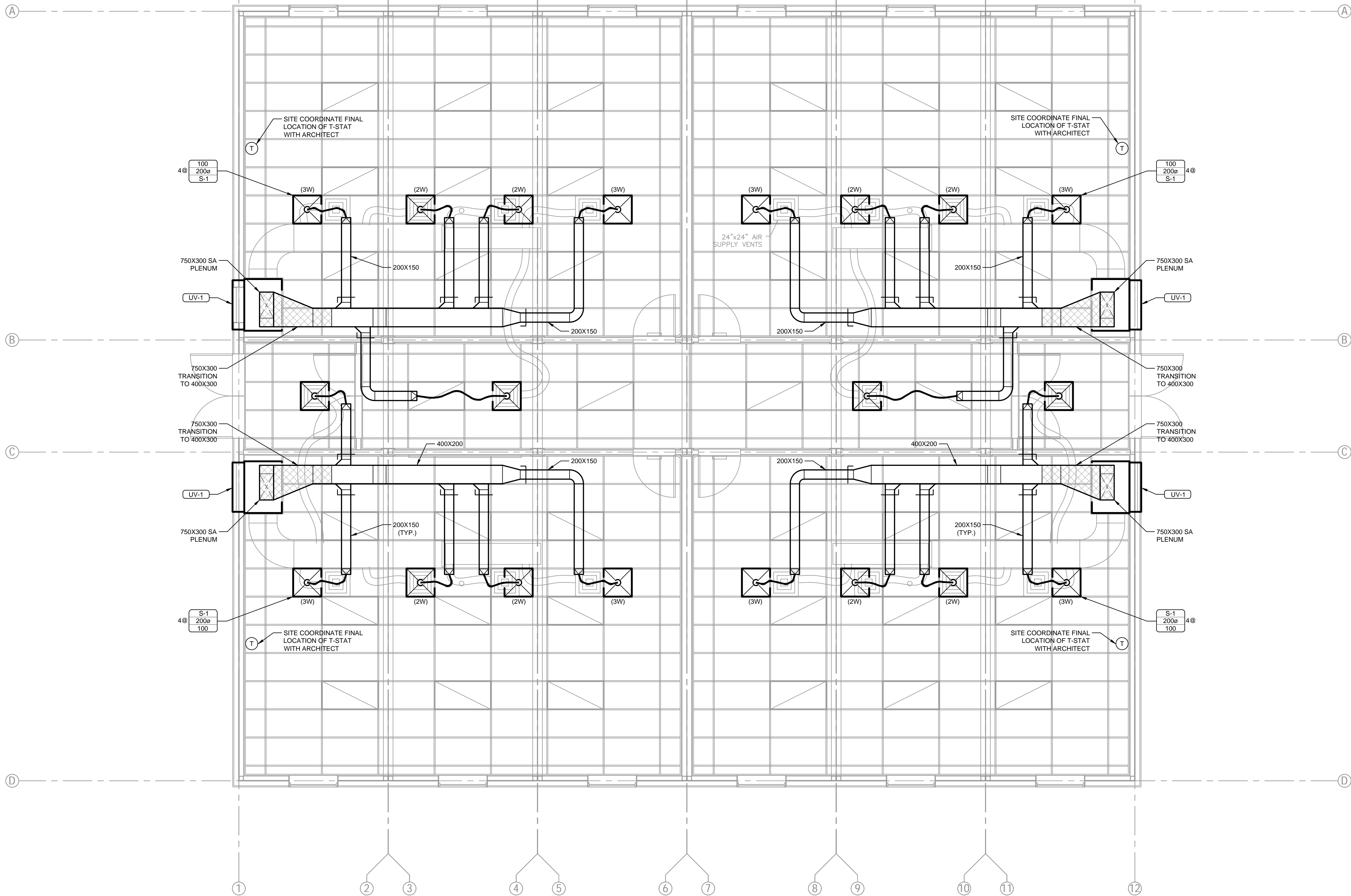
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M01



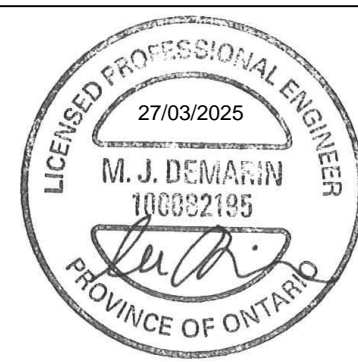
1 SECTION  
M02 1:50

- MECHANICAL NOTES:
- DUCTWORK IS TO BE FABRICATED TO ASHRAE OR SMACNA STANDARDS. ALL DUCT TRANSITIONS ARE TO BE PROPERLY CONSTRUCTED WITH MAXIMUM 30 DEGREE ANGLE TO THE DUCT AXIS. ABRUPT EXPANSIONS OR CONTRACTIONS ARE NOT ACCEPTABLE. SEAL ALL DUCTWORK SEAMS WITH APPROVED FLEXIBLE SEALANT, LISTED AND LABELED IN ACCORDANCE WITH UL 181A-P OR 181B-FX.
  - PROVIDE THE REQUIRED DUCT TRANSITION TO SUIT THE UNITS SUPPLY OPENING. DUCT DIMENSION SHOWN ON THE DRAWING REPRESENTS THE INTERNAL WIDTH AND DEPTH OF THE DUCT. SUPPLY DUCT SHALL BE ACoustically INSULATED FOR THE FIRST 6'-0".
  - ALL ACOUSTIC INSULATION SHALL BE 1/2" THICK. ALL ACOUSTIC INSULATION SHALL BE APPLIED ACCORDING TO GOOD COMMERCIAL STANDARD AND MANUFACTURER RECOMMENDATIONS. ADJUST TOTAL AIR FLOW OF THE UNITS INTO 1100 CFM. BALANCE MINIMUM FRESH AIR SETTING OF ECONOMIZER TO ADMIT 15 CFM PER PERSON.
  - PROVIDE FLEX CONNECTORS AT SUPPLY AIR DUCT CONNECTION TO AC UNIT.
  - DUCT WITH THERMAL INSULATION SHALL NOT BE INSTALLED CLOSER THAN 3" TO THE LUMINAIRE.
  - PROVIDE BALANCING DAMPER AT EACH DUCT TAKE OFF.
  - PROVIDE SPIN-ON COLLARS WITH BALANCING DAMPER (TYPICAL).
  - FLEXIBLE DUCTS SHALL BE SUPPORTED TO THE ROOF STRUCTURE AT 5 FEET INTERVALS.
  - CONNECT BASEBOARD HEATER TO JUNCTION BOX IN CEILING SPACE C/W RELAY. BASEBOARD HEATER TO BE INTERLOCKED W/ UV UNIT TO PREVENT SIMULTANEOUS HEATING AND COOLING. MAINTAIN SEQUENCES: UV UNIT TO BE FIRST STAGE HEATING. BASEBOARD HEAT TO SUPPLEMENT OF UNIT WHEN OUT IS TOO COLD.
  - S-1 DIFFUSERS SHALL BE C/W BLANK OFFS REPRESENTED BY 2W (2 WAY) AND 3W (3 WAY) BELOW EACH DIFFUSER WHEN APPLICABLE. REFER TO EQUIPMENT SCHEDULE.



1 MECHANICAL PLAN  
M02 1:50

STAMP



1 27/03/2025 ISSUED FOR PERMIT

No DATE DESCRIPTION

PROJECT LOGO  
AND ADDRESS

**HAMILTON-WENTWORTH  
CATHOLIC DISTRICT  
SCHOOL BOARD**

30 WENTWORTH ST NORTH L8L 8H5 AND 200  
ACADIA DR L8W 1B8,  
HAMILTON ON

KEY PLAN

CONSTRUCTION NORTH N TRUE NORTH N

DISCLAIMER

DO NOT SCALE DRAWINGS. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED WITHOUT ENGINEERS WRITTEN PERMISSION. THE CONTRACT DOCUMENTS WERE PREPARED BY THE ENGINEER FOR THE ACCOUNT OF THE OWNER. THE MATERIAL CONTAINED HEREIN REFLECT THE ENGINEERS BEST JUDGEMENT IN LIGHT OF THE INFORMATION AVAILABLE TO THEM AT THE TIME OF PREPARATION. ANY USE WHICH A THIRD PARTY MAKES OF THE CONTRACT DOCUMENTS, OR ANY RELIANCE ON OR DECISIONS TO BE MADE BASED ON THEM ARE THE RESPONSIBILITY OF SUCH THIRD PARTIES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR DAMAGE, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS ON THE CONTRACT DOCUMENTS.

JOB NUMBER 25010

SCALE 1:50

DATE 05/03/25

DRAWN BY MI

REVIEWED BY MD

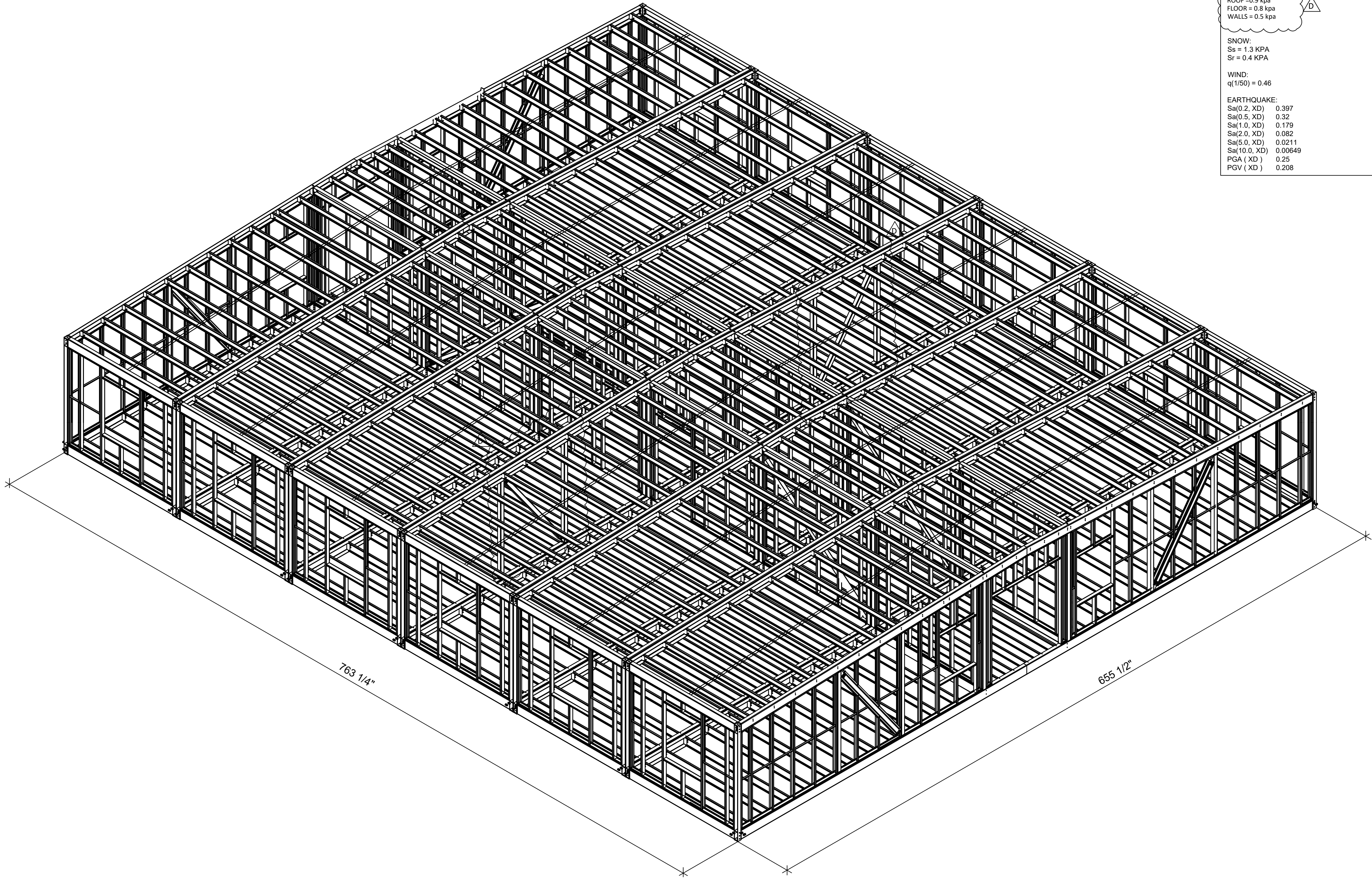
REVISION

DRAWING NAME  
**MECHANICAL PLAN**

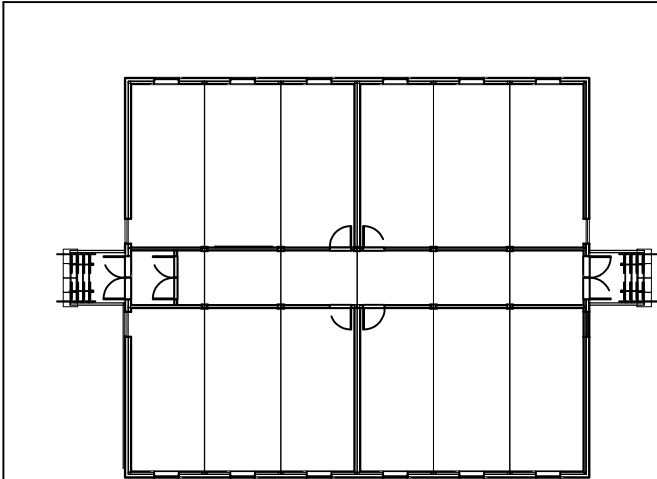
DRAWING NUMBER

**M02**





ISOMETRIC VIEW



KEY PLAN

STRUCTURAL NOTES

- 1. BUILDING HAS BEEN REVIEWED IN ACCORDANCE W PART 4 OF 2024 OBC
- 2. STRUCTURAL DESIGNED IN ACCORDANCE WITH CSA S16 AND S136
- 3. STRUCTURAL STEEL CONFORMING TO CSA G40.21  
W SHAPES =350W  
HSS SHAPES =ASTM A500  
C CHANNELS =350W  
ANGLES/PLATES = 300W
- 4. WELDING TO MEET CSA W47.1 AND CSA W59 AND PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1
- 5. WELDING MATERIALS TO CONFORM W CSA W48
- 6. ALL BOLTS ARE F3125 (A325) AND BOLTED CONNECTIONS TO CONFORM TO CSA S16.1

LOADS:

LIVE = 2.4KPA CLASSROOM  
= 4.8KPA HALLWAY

DEAD LOADS:  
ROOF =0.9 kpa  
FLOOR = 0.8 kpa  
WALLS = 0.5 kpa

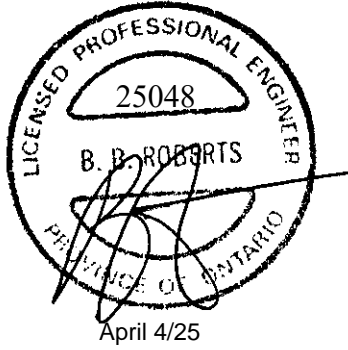
SNOW:  
Ss = 1.3 KPA  
Sr = 0.4 KPA

WIND:  
q(1/50) = 0.46

EARTHQUAKE:  
Sa(0.2, XD) 0.397  
Sa(0.5, XD) 0.32  
Sa(1.0, XD) 0.179  
Sa(2.0, XD) 0.082  
Sa(5.0, XD) 0.0211  
Sa(10.0, XD) 0.00649  
PGA ( XD ) 0.25  
PGV ( XD ) 0.208

EOR:  
BRENT ROBERT  
JEROL TECHNOLOGIES INC.  
EMAIL ID : brent@jerol.ca

EOR STAMP:



| DRAWING STATUS             | DATE<br>YY.MM.DD |
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| ISSUED FOR ENGINEER REVIEW | 25.03.20         |
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| REVISED AS PER EOR MARKUPS | 25.04.01         |
| REVISED AS PER EOR MARKUPS | 25.04.04         |

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| D   | FOR EOR APPROVAL           | 25.04.04 |
|     |                            |          |
|     |                            |          |
|     |                            |          |

CLIENT:



DRAWN BY:  
VJ

PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

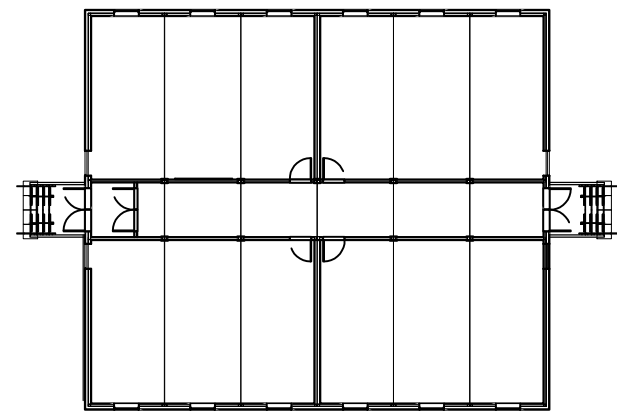
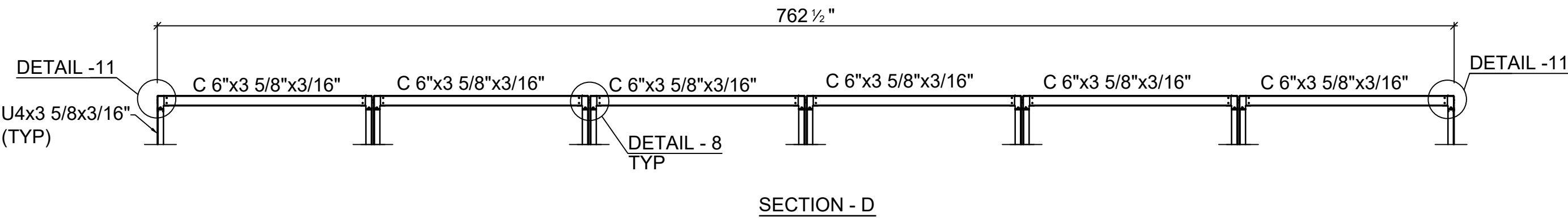
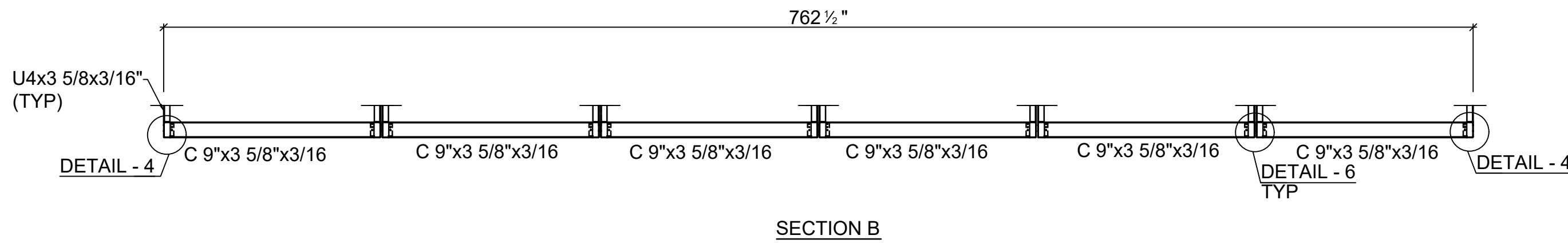
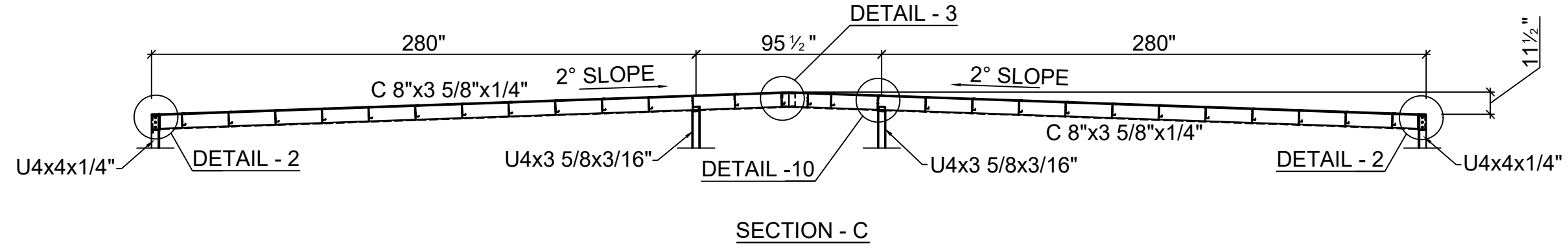
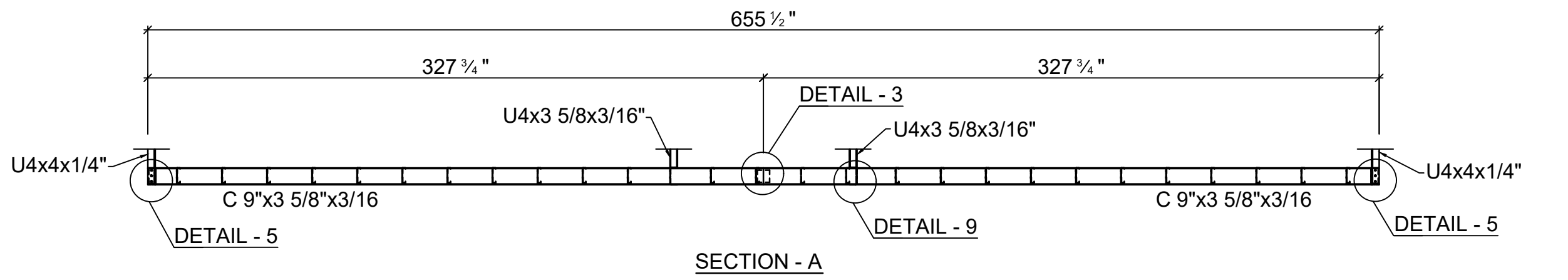
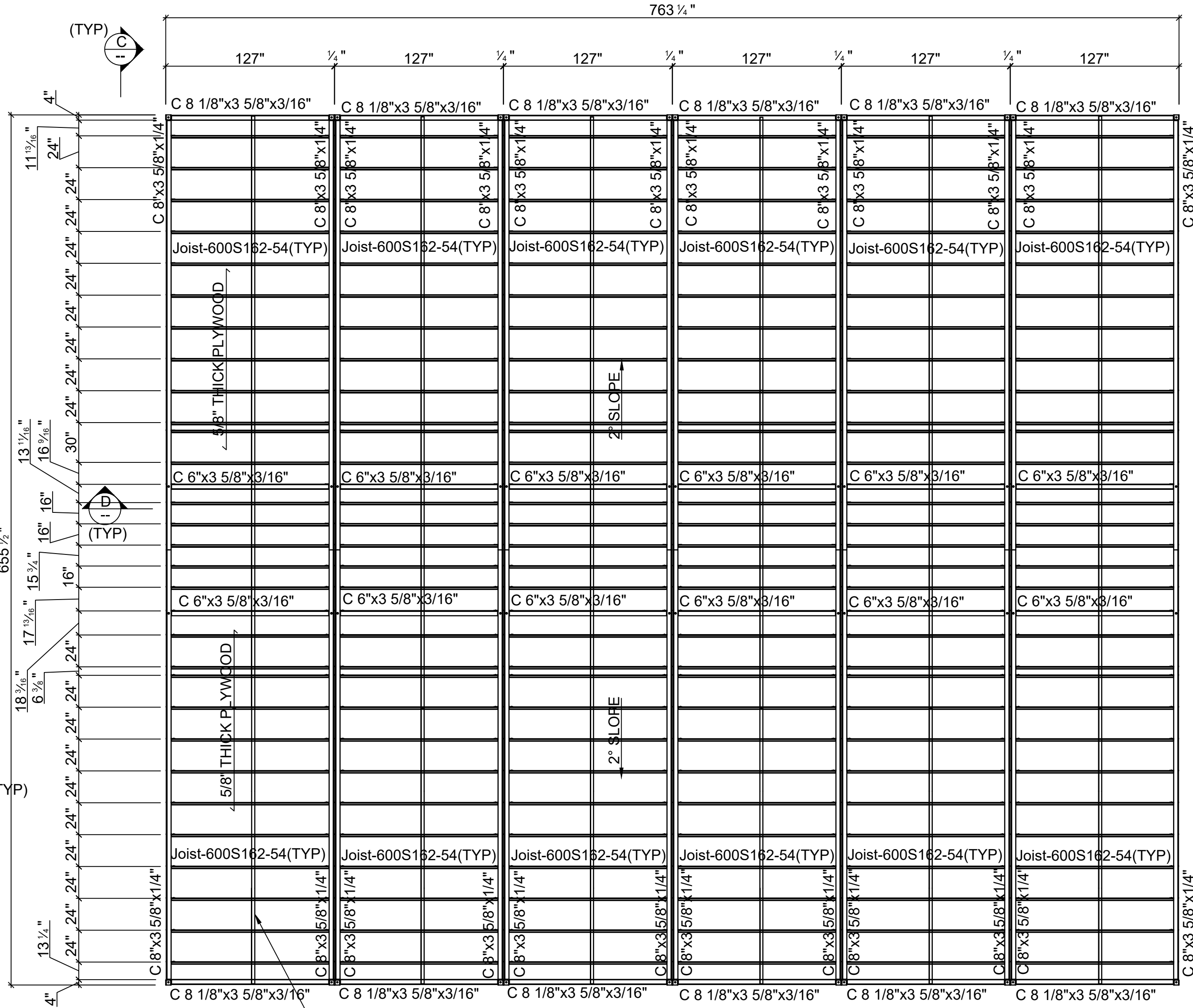
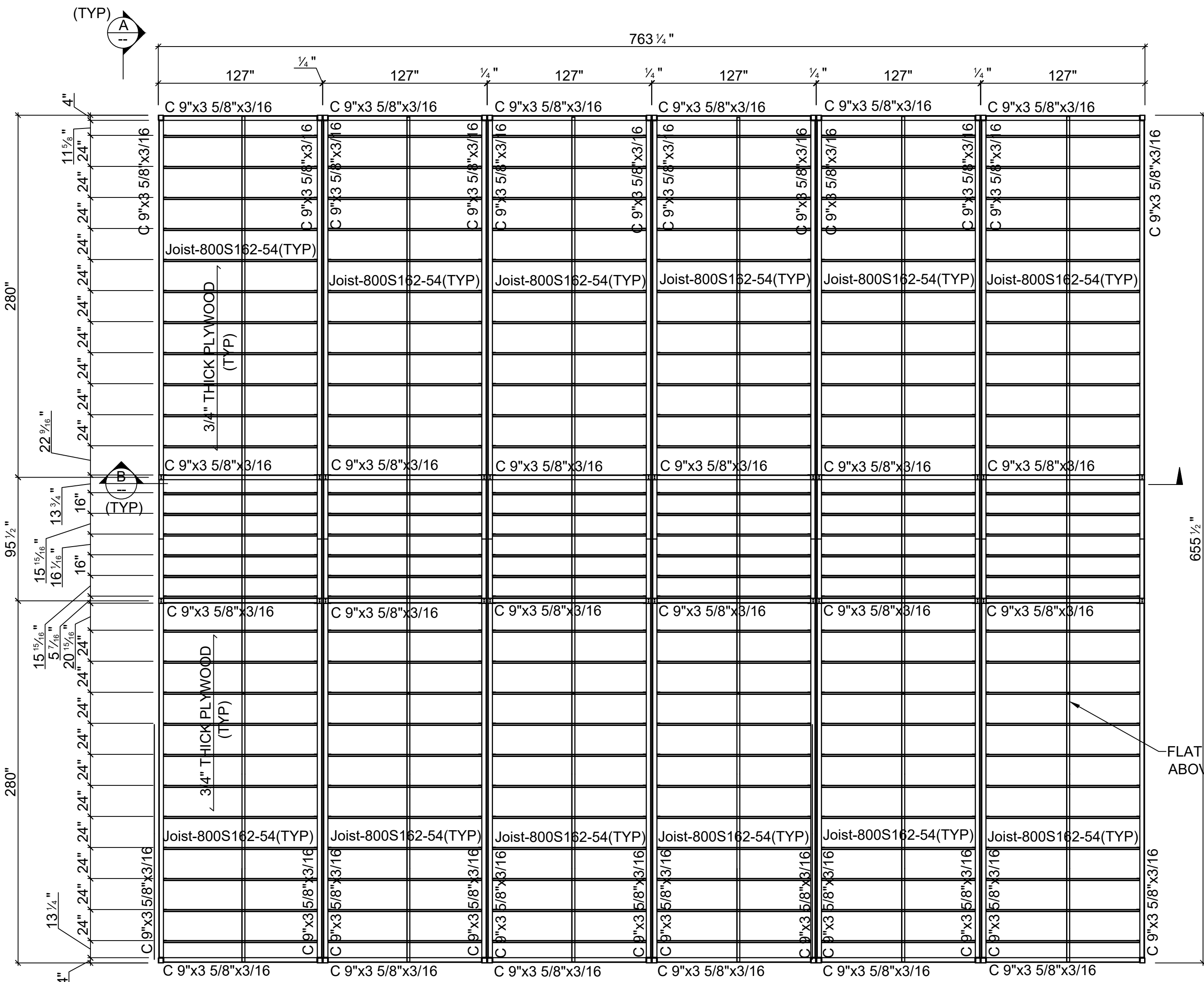
DRAWING TITLE:  
ISOMETRIC VIEW

PROJECT #:  
25001

DRAWING #:  
S0

NOTE:-FOUNDATION DESIGN AND PLAN BY OTHERS.

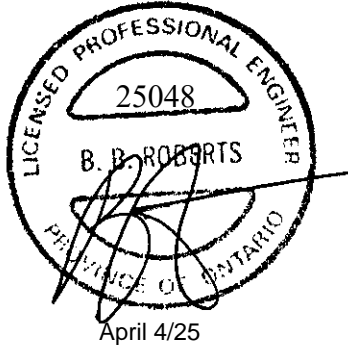
NOTE:- MAXIMUM FOUNDATION SPACING=8'-0.THERE MUST BE A FOUNDATION UNDER EVERY POST.



KEY PLAN

EOR:  
BRENT ROBERT  
JEROL TECHNOLOGIES INC.  
EMAIL ID : brent@jerol.ca

EOR STAMP:



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CLIENT:



DRAWN BY:  
VJ

BECC MODULAR  
1295 CORMORANT ROAD,  
ANCASTER, ON L9G 4V5

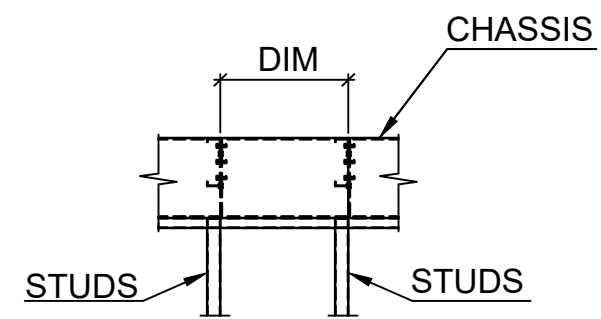
PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:  
FRAMING PLANS  
&  
DETAILS

PROJECT #:  
25001

DRAWING #:  
S1



TYPICAL WALL DETAIL

TYP DIMENSION LOCATING DETAILS  
ALL DIMENSIONS ARE TAKEN FROM BACK OF STUDS

TYPICAL WALL DETAIL

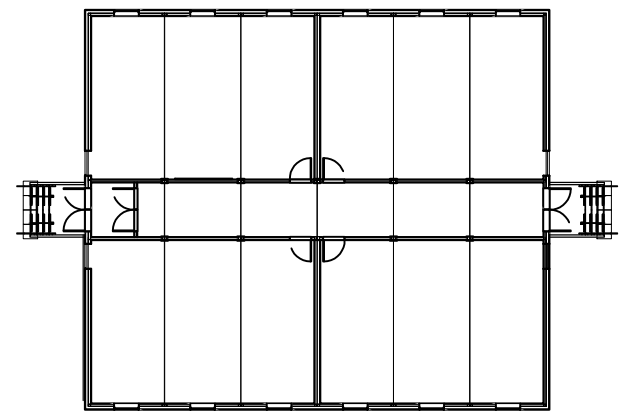
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ALL DIMENSIONS ARE TAKEN FROM BACK OF STUDS

TYPICAL WALL DETAIL

TYP DIMENSION LOCATING DETAILS  
ALL DIMENSIONS ARE TAKEN FROM BACK OF STUDS

TYPICAL WALL DETAIL

TYP DIMENSION LOCATING DETAILS  
ALL DIMENSIONS ARE TAKEN FROM BACK OF STUDS

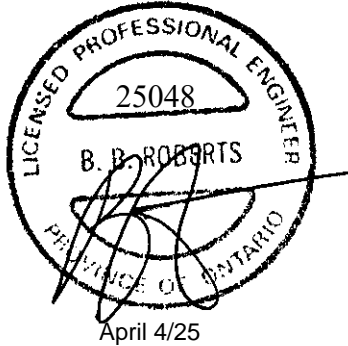


## KEY PLAN

NOTE:-5/8" G.W.B. SHOULD BE FASTENED USING #6-20 HILTI SELF DRILLING SCREW AT EVERY 4" AT PANEL EDGES AND 12" ON THE INTERIOR OF THE PANELS TO INTERMEDIATE FRAMING MEMBERS

EOR:  
BRENT ROBERT  
JEROL TECHNOLOGIES INC.  
EMAIL ID : [brent@jerol.ca](mailto:brent@jerol.ca)

FOR STAMP:



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CLIENT



|                 |  |
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| DRAWN BY:<br>VJ | BECC MODULAR<br>1295 CORMORANT ROAD,<br>ANCASTER, ON L9G 4V5 |
|-----------------|--|

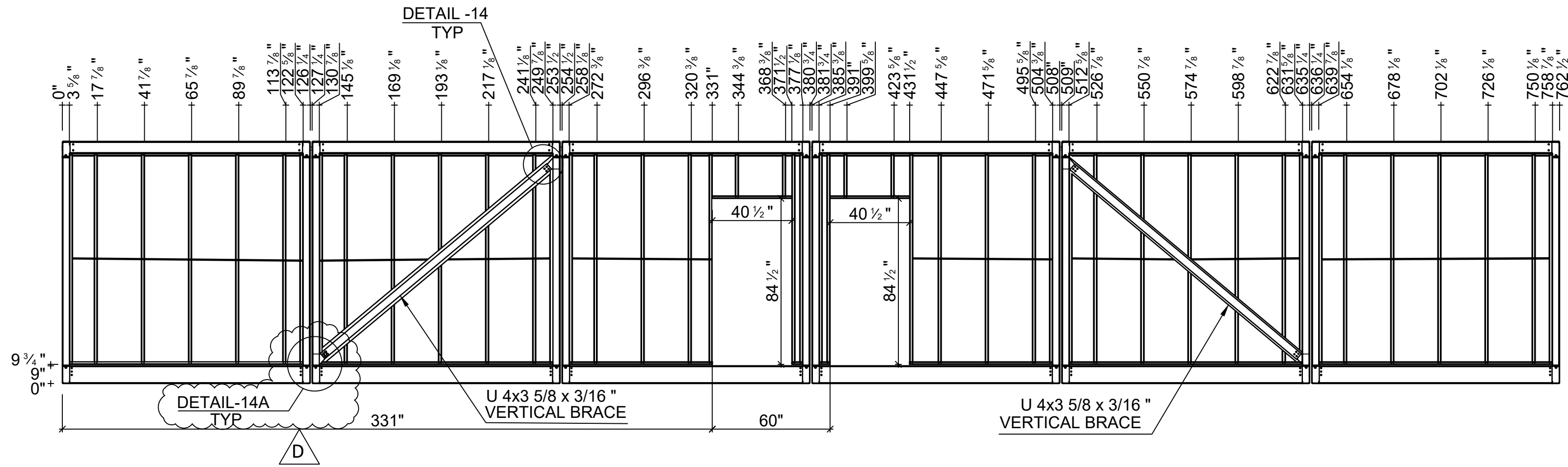
PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

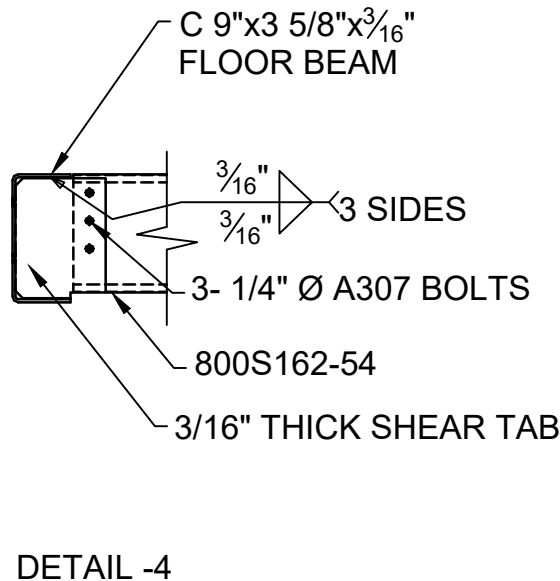
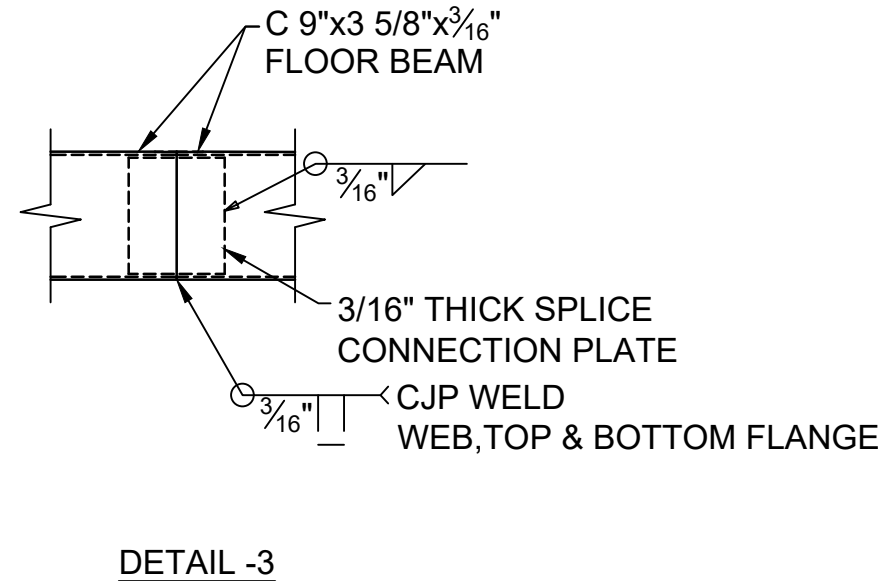
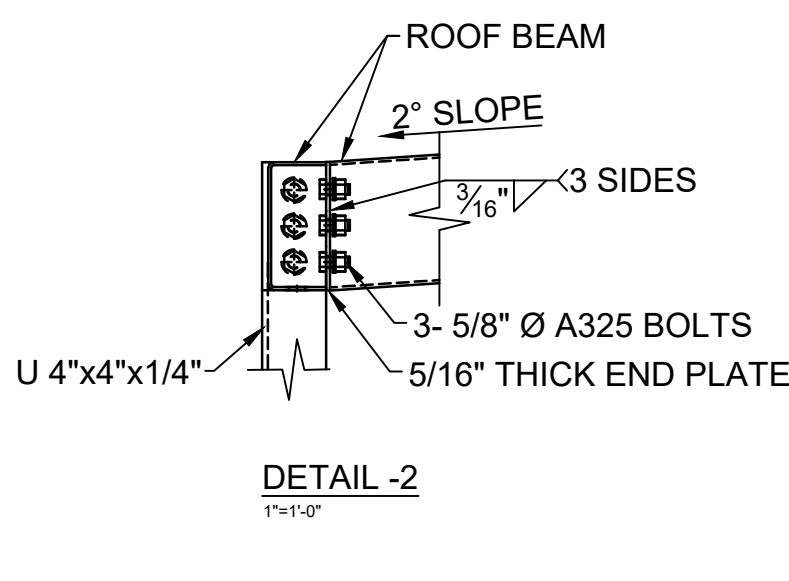
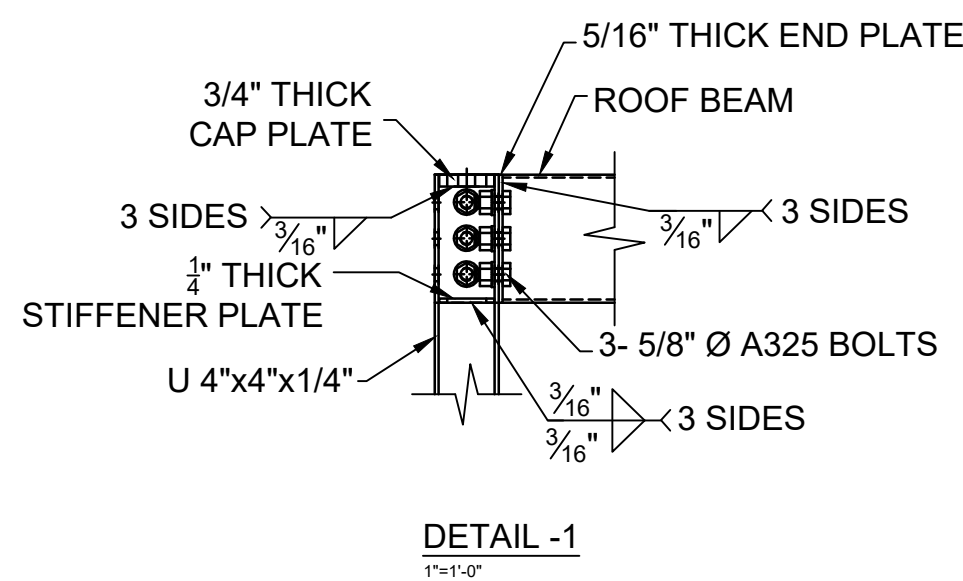
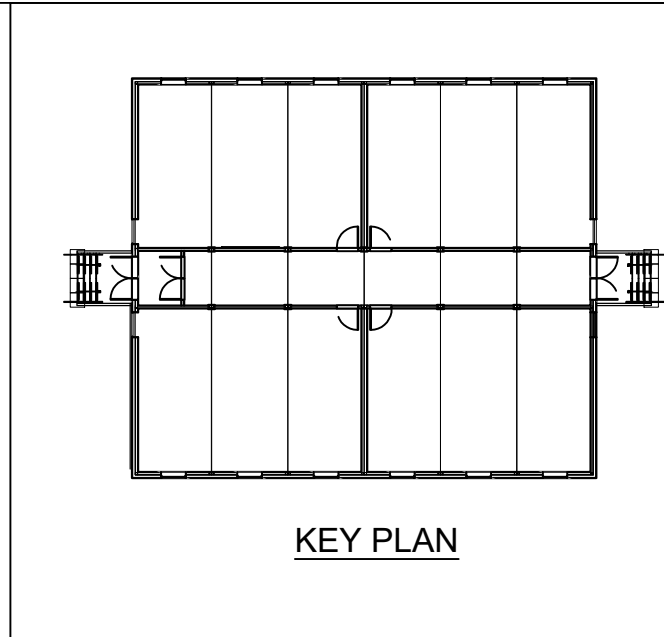
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**WALL ELEVATIONS**

PROJECT #:  
25001

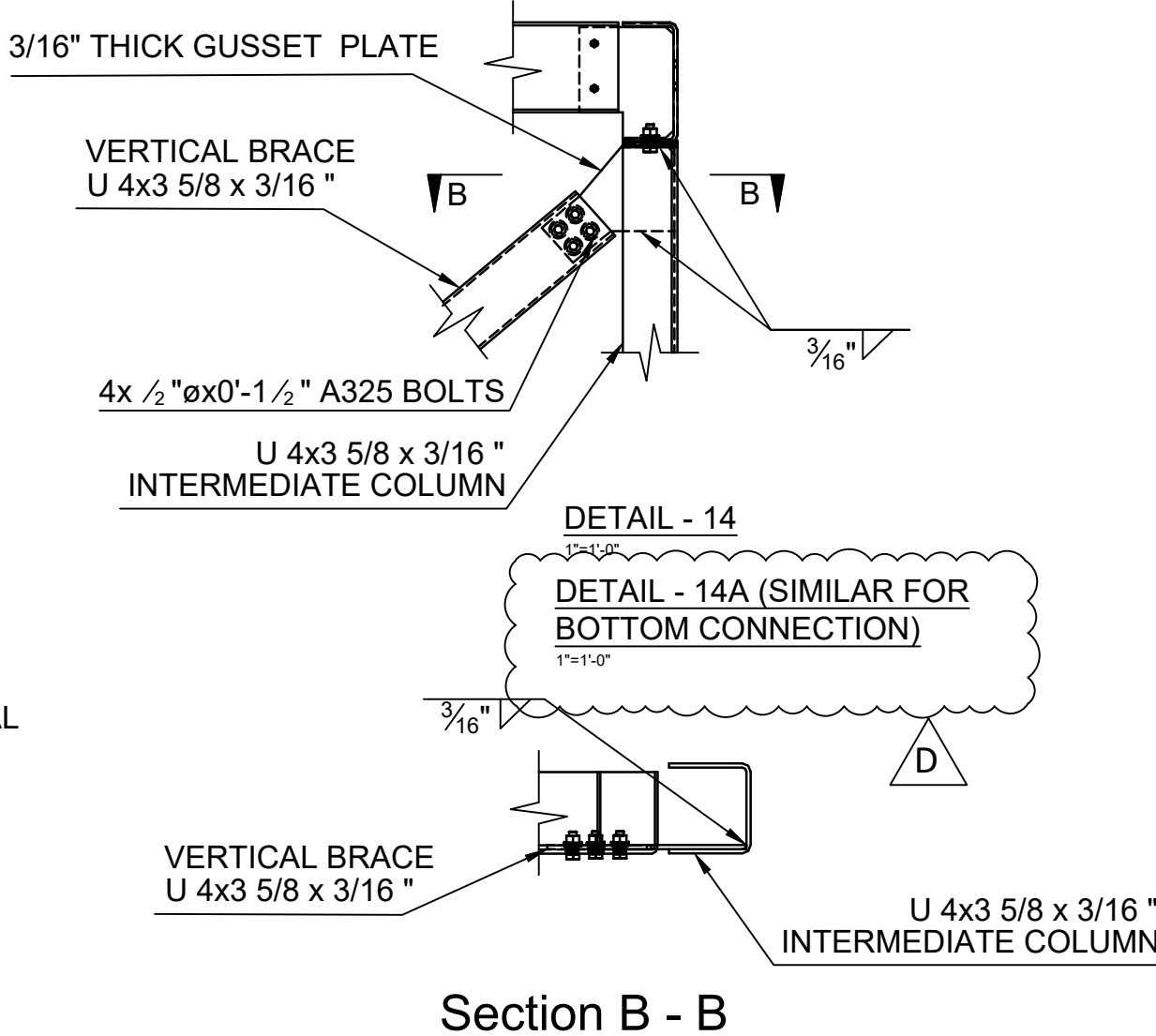
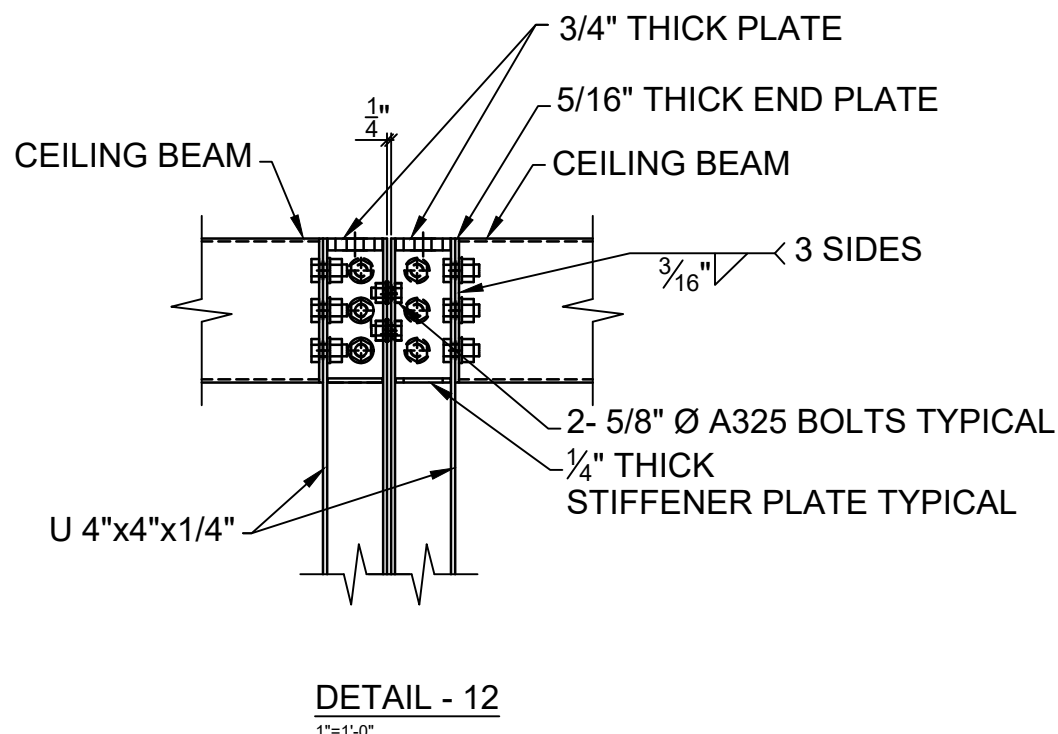
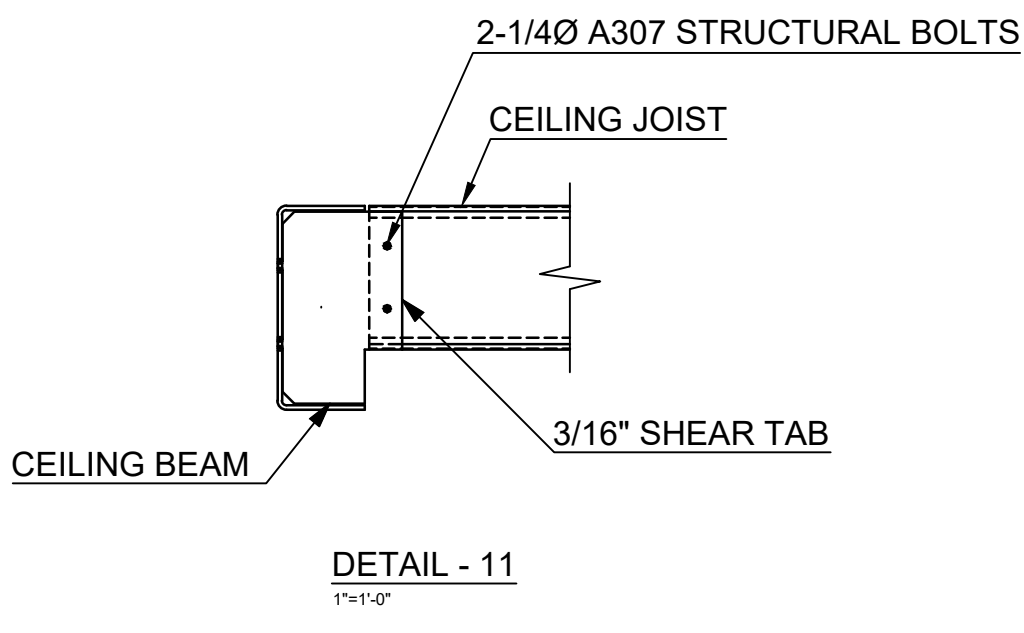
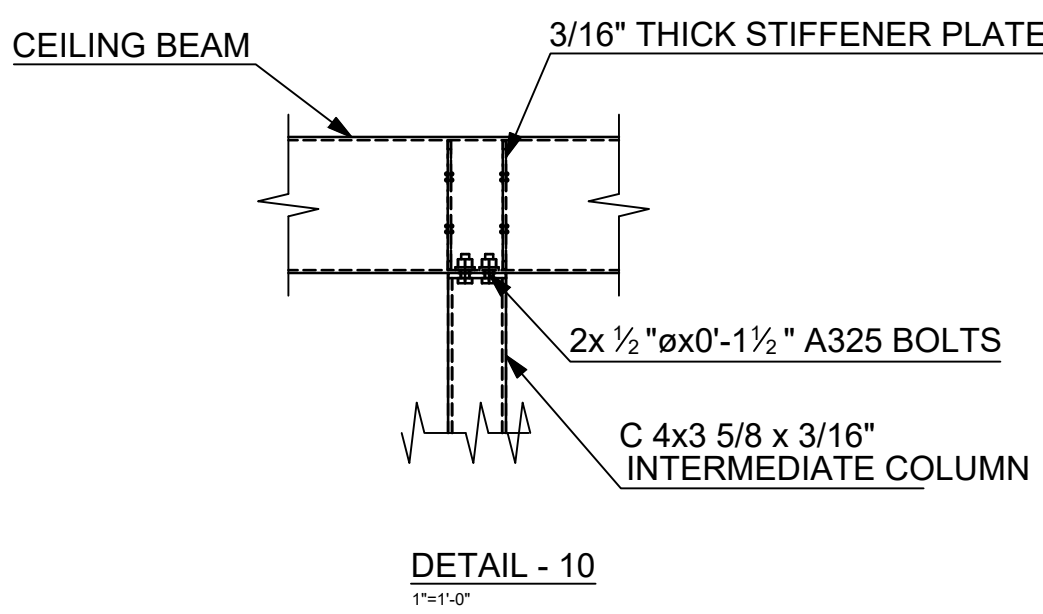
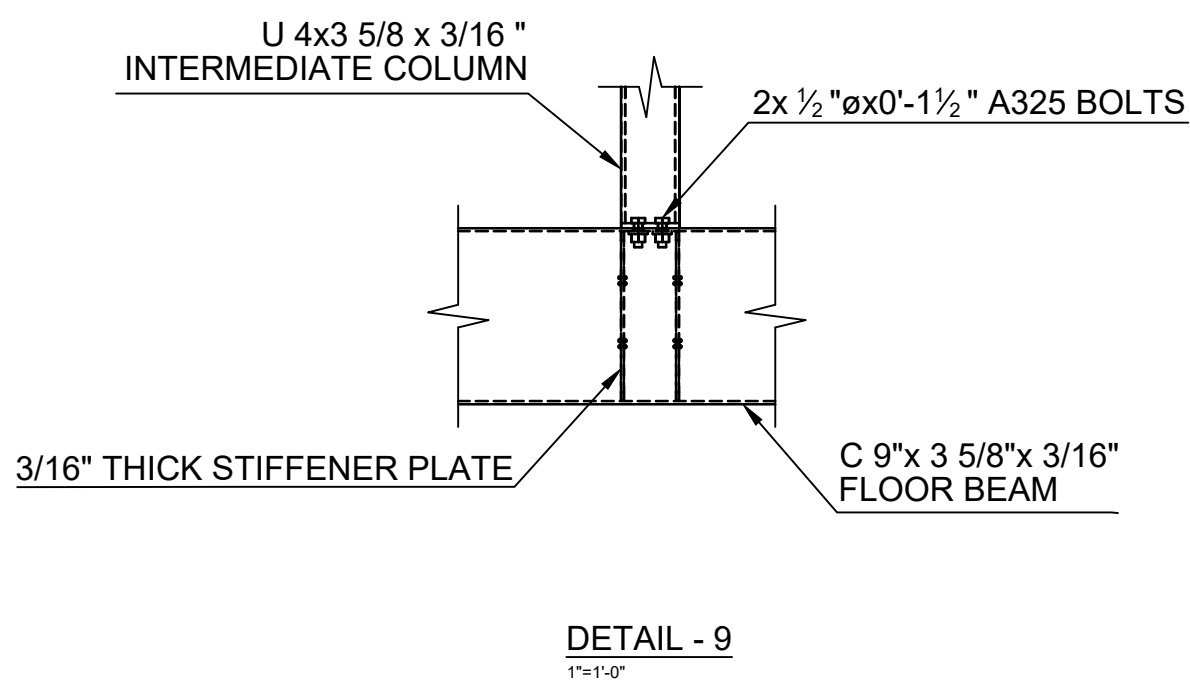
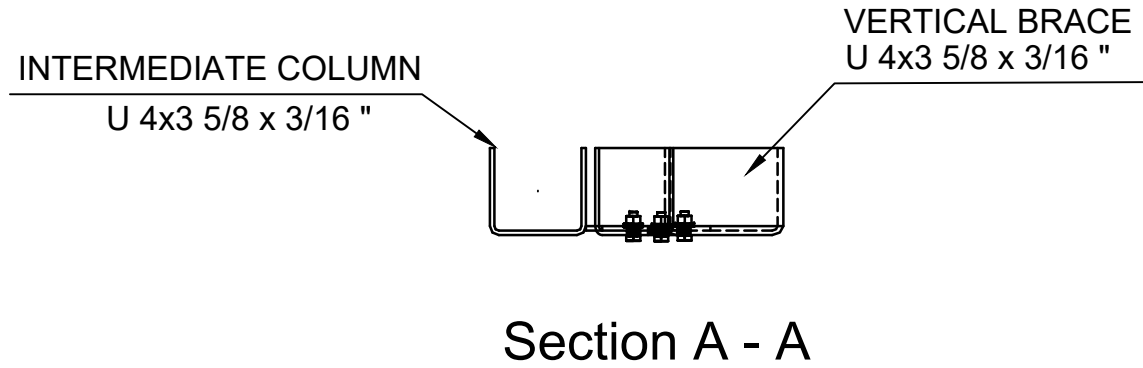
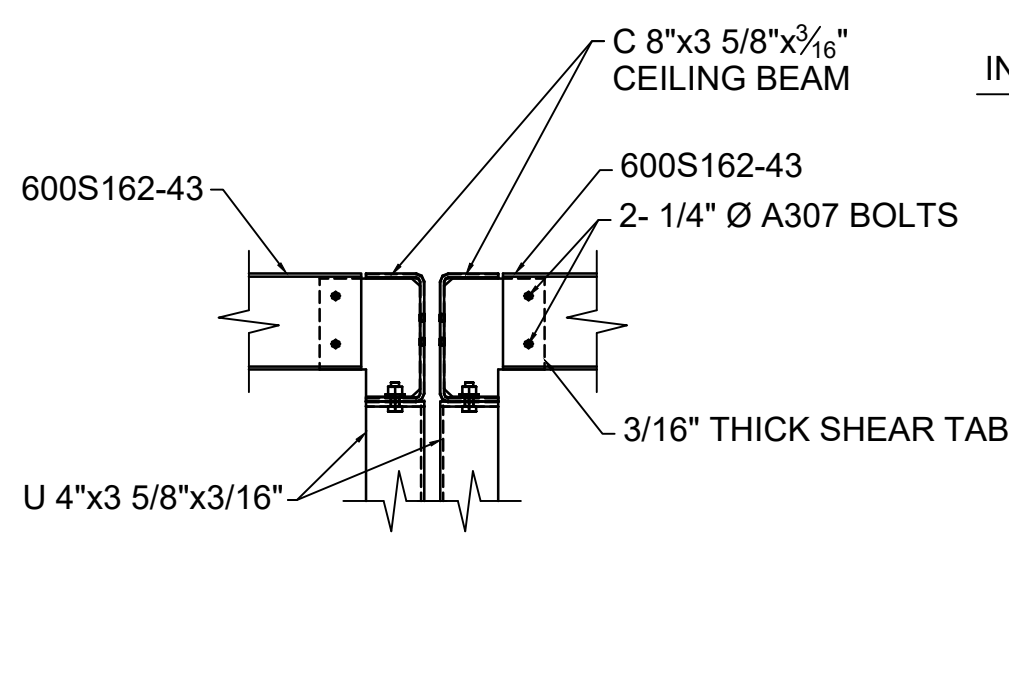
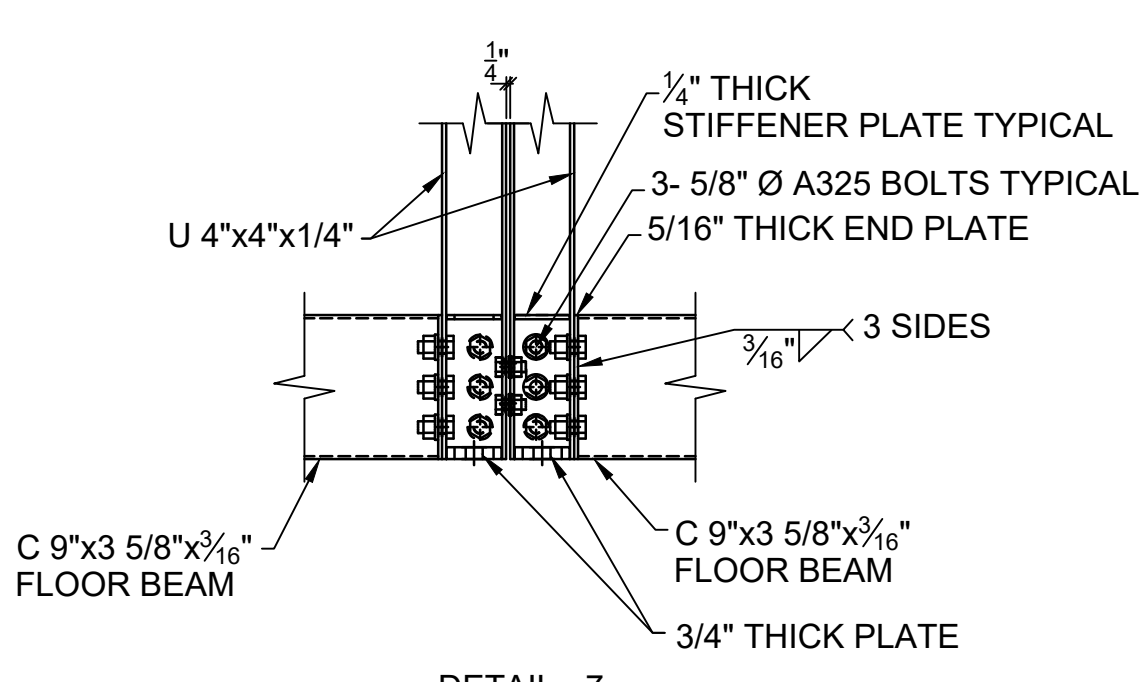
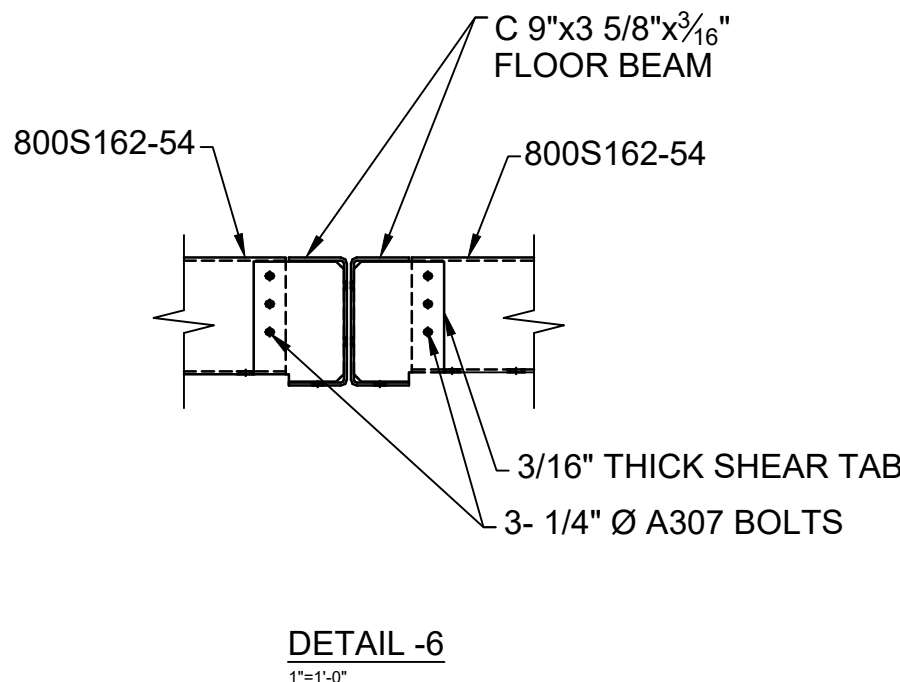
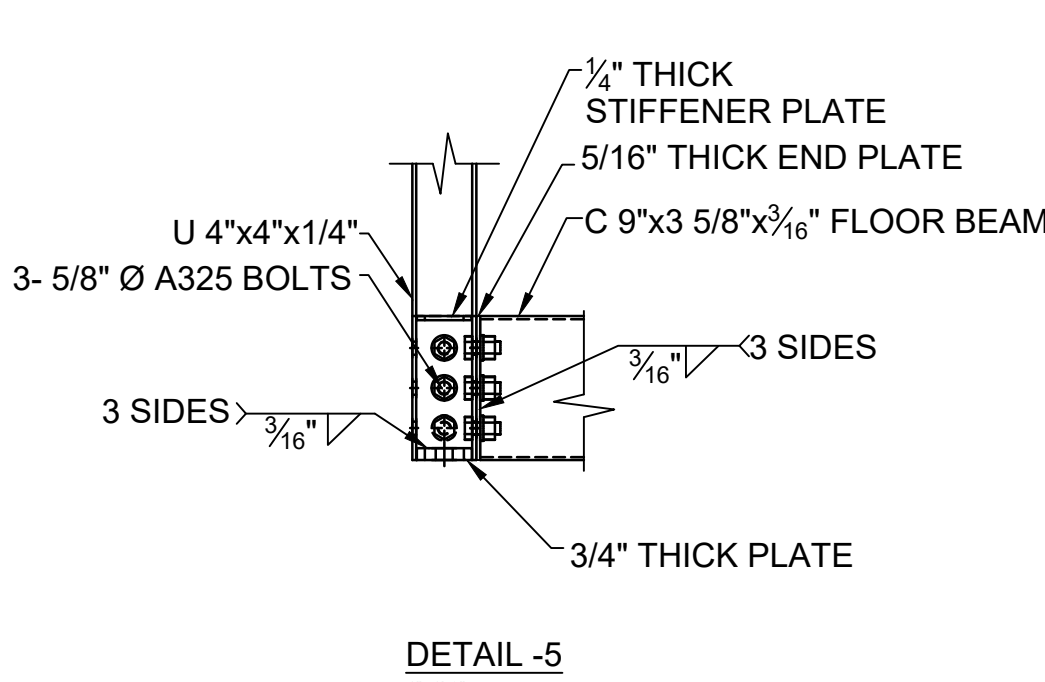
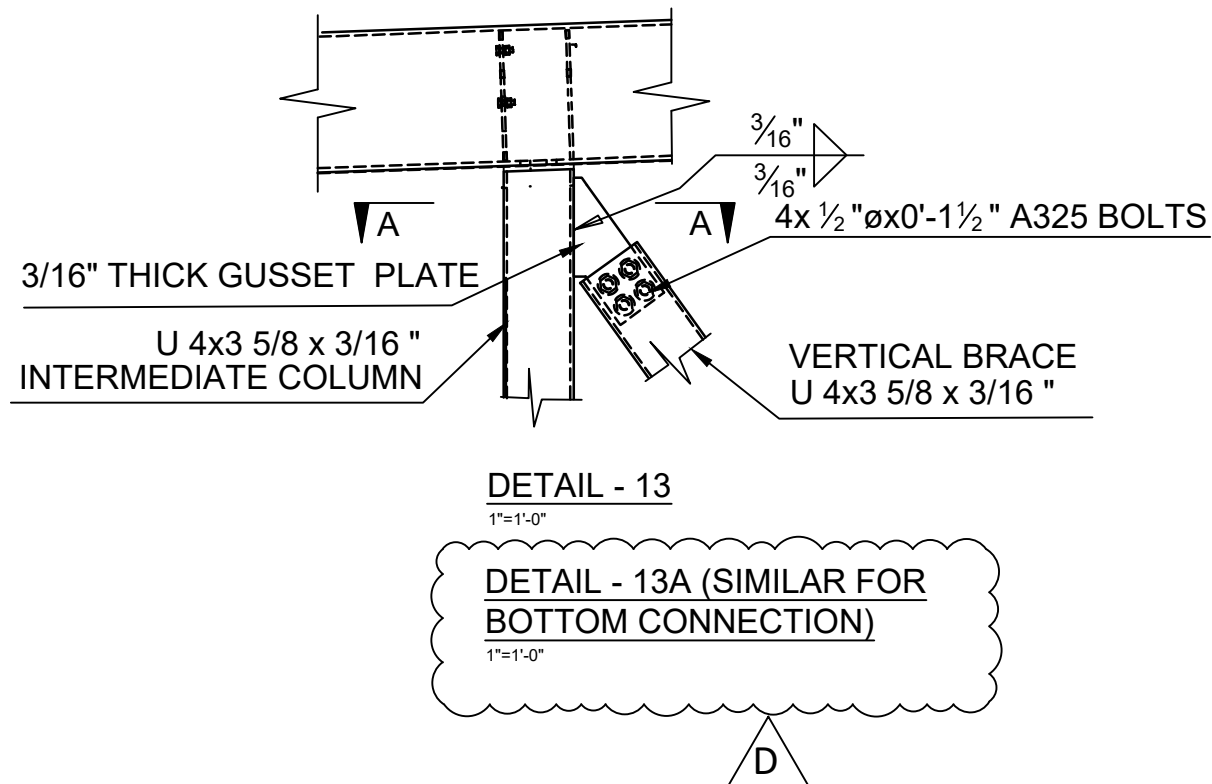
DRAWING #:  
S2



CORRIDOR WALL ELEVATION

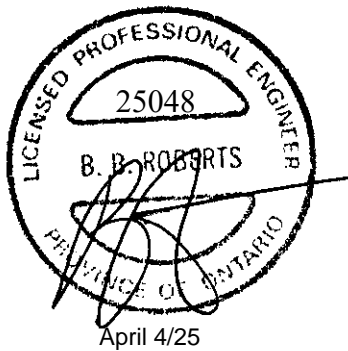


NOTE:- FLANGES OF THE MEMBERS SHOULD BE WELDED TOGETHER USING 3/16" WELD.



EOR:  
BRENT ROBERT  
JEROL TECHNOLOGIES INC.  
EMAIL ID : brent@jerol.ca

EOR STAMP:



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REVISIONS:

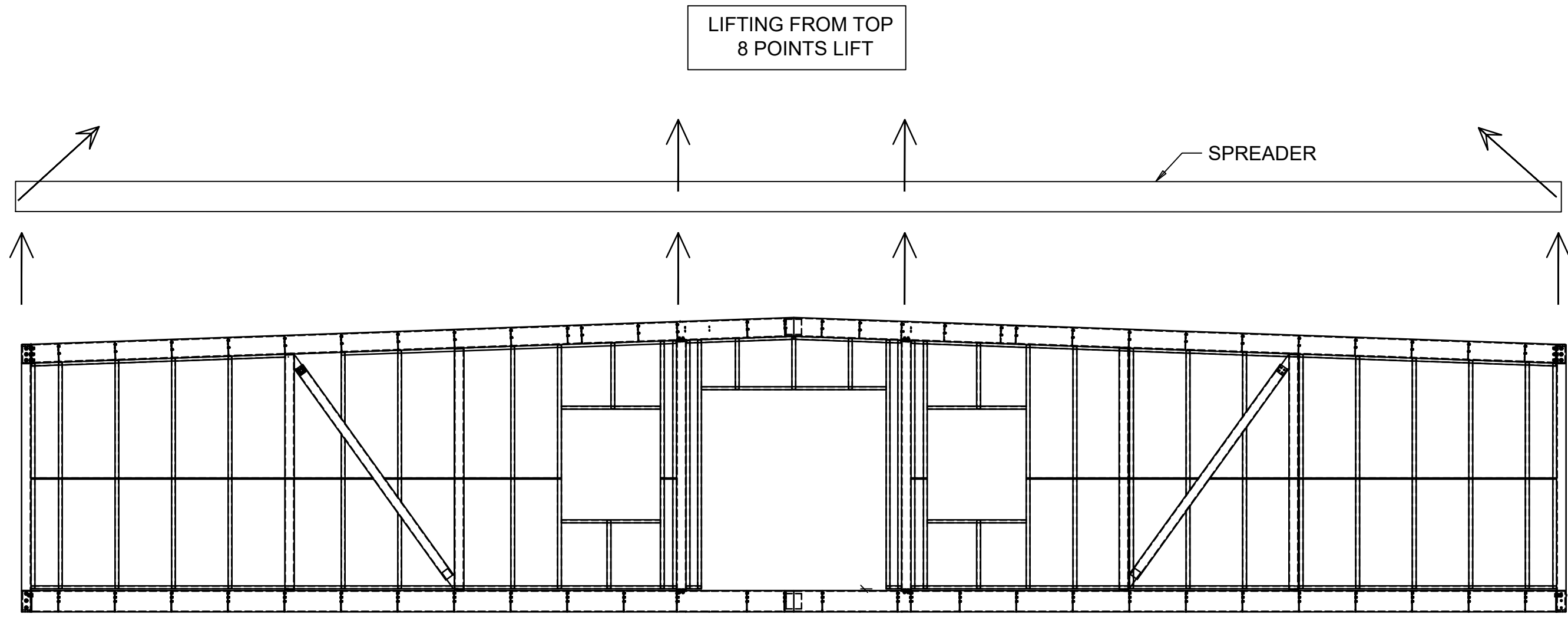
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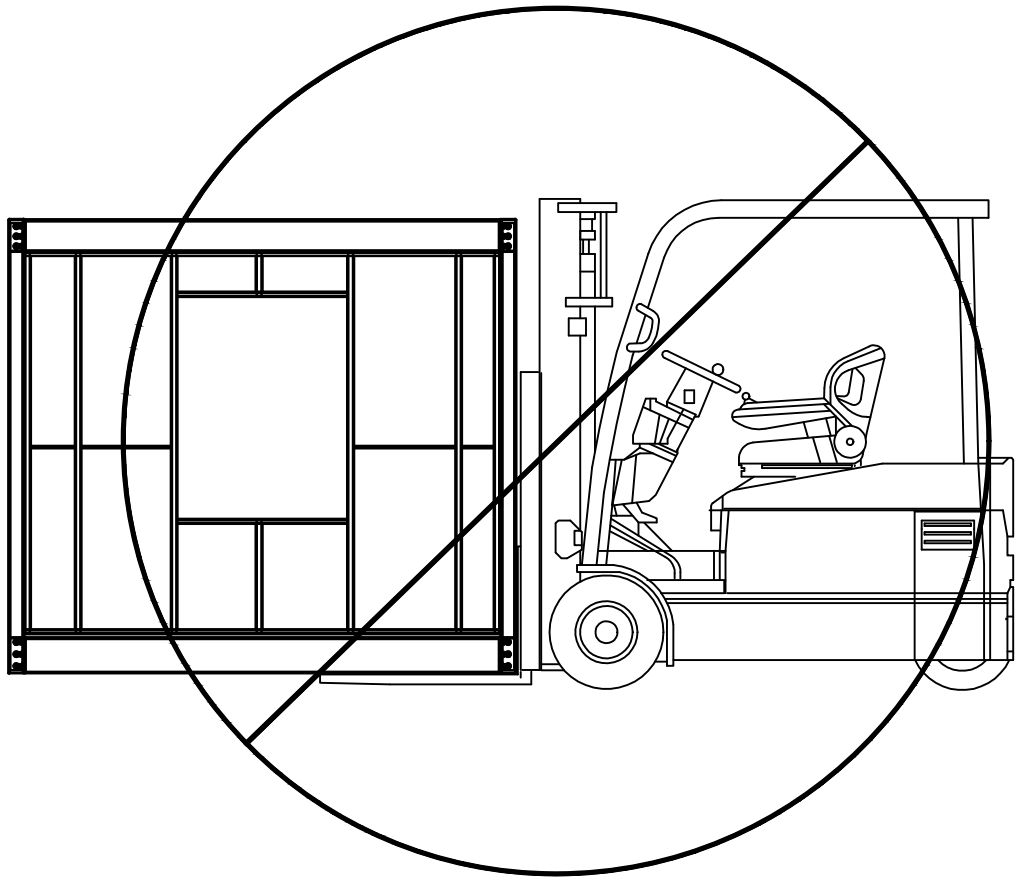


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VJ  
PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD  
ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON  
DRAWING TITLE:  
DETAILS

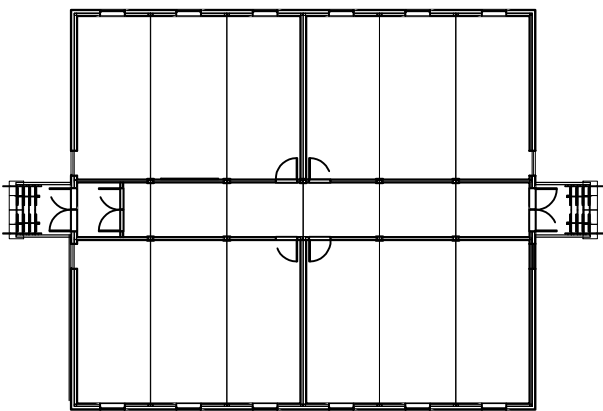
PROJECT #:  
25001  
DRAWING #:  
S3



① ACCEPTABLE LIFTING METHODS  
SCALE : N.T.S

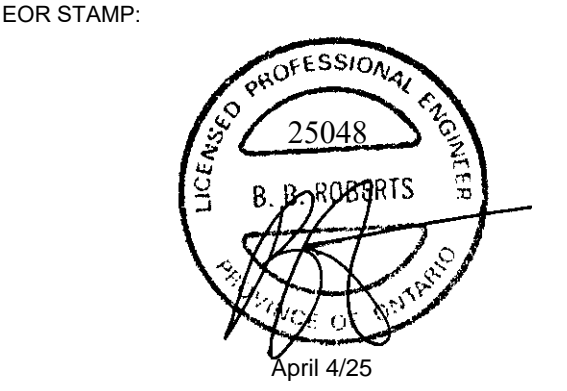


② FORKLIFT LIFTING NOT ALLOWED  
SCALE : N.T.S



KEY PLAN

EOR:  
BRENT ROBERT  
JEROL TECHNOLOGIES INC.  
EMAIL ID : brent@jerol.ca



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CLIENT:



DRAWN BY:  
VJ

BECC MODULAR  
1295 CORMORANT ROAD,  
ANCASTER, ON L9G 4V5

PROJECT:  
HAMILTON-WENTWORTH  
CATHOLIC DISTRICT SCHOOL BOARD

ADDRESS:  
30 WENTWORTH ST NORTH L8L 8H5  
AND 200 ACADIA DR.L8W 1B8,  
HAMILTON ON

DRAWING TITLE:  
LIFTING METHOD

PROJECT #:  
25001

DRAWING #:  
S4