

### WASHROOM CALCULATION

Male / Female Count at 50% / 50 %	OBC Reference 3.7.4.3. (14)
EX OCCUPANT LOAD (Elementary School)	<b>555 Student + 49 Staff</b>
1 PORTABLE CLASSROOM ADDITION	<b>23 Student + 1 Staff</b>
TOTAL	<b>628</b>
TOTAL FEMALES	314
TOTAL FEMALE FIXTURES REQUIRED (1 PER 26 FEMALES)	13
TOTAL FEMALE FIXTURES PROVIDED	24
TOTAL MALES	314
TOTAL MALE FIXTURES REQUIRED (1 PER 30 MALES)	11
TOTAL MALE FIXTURES PROVIDED	23

### ZONING DATA FOR CITY OF HAMILTON

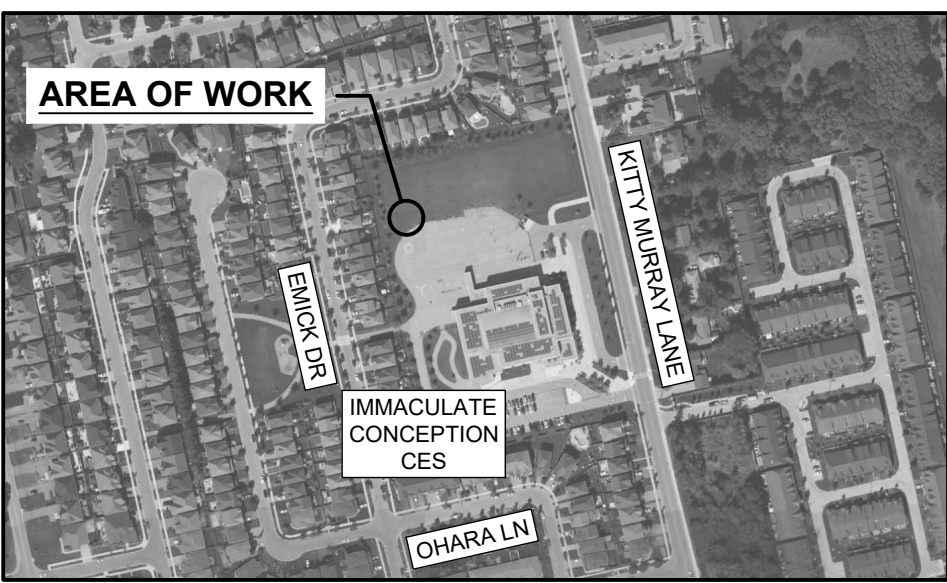
ITEM DESCRIPTION	PERMITTED	ACTUAL OR PROPOSED
ZONING DESIGNATION	11-NEIGHBORHOOD INSTITUTIONAL	
NET LOT AREA (MIN)	NONE	26,100± sqm
MINIMUM YARD WHERE LOT LINE ABUTS A RESIDENTIAL ZONE LOT LINE	6.0 m	12.8 m
MAXIMUM BUILDING HEIGHT	10.5m	EX SCHOOL = 9m± PORTABLE= 3.5m
REQUIRED PARKING SPACES:	CLASSROOM X 1.25 = SPACES 28 EXISTING CLASSROOMS + 1 PORTABLE CLASSROOM x 1.25 = 36.25 PARKING SPACE REQUIRED	EXISTING 68 SPACES + 2 BF SPACES TOTAL = 70 SPACES PROVIDED

### GENERAL NOTES

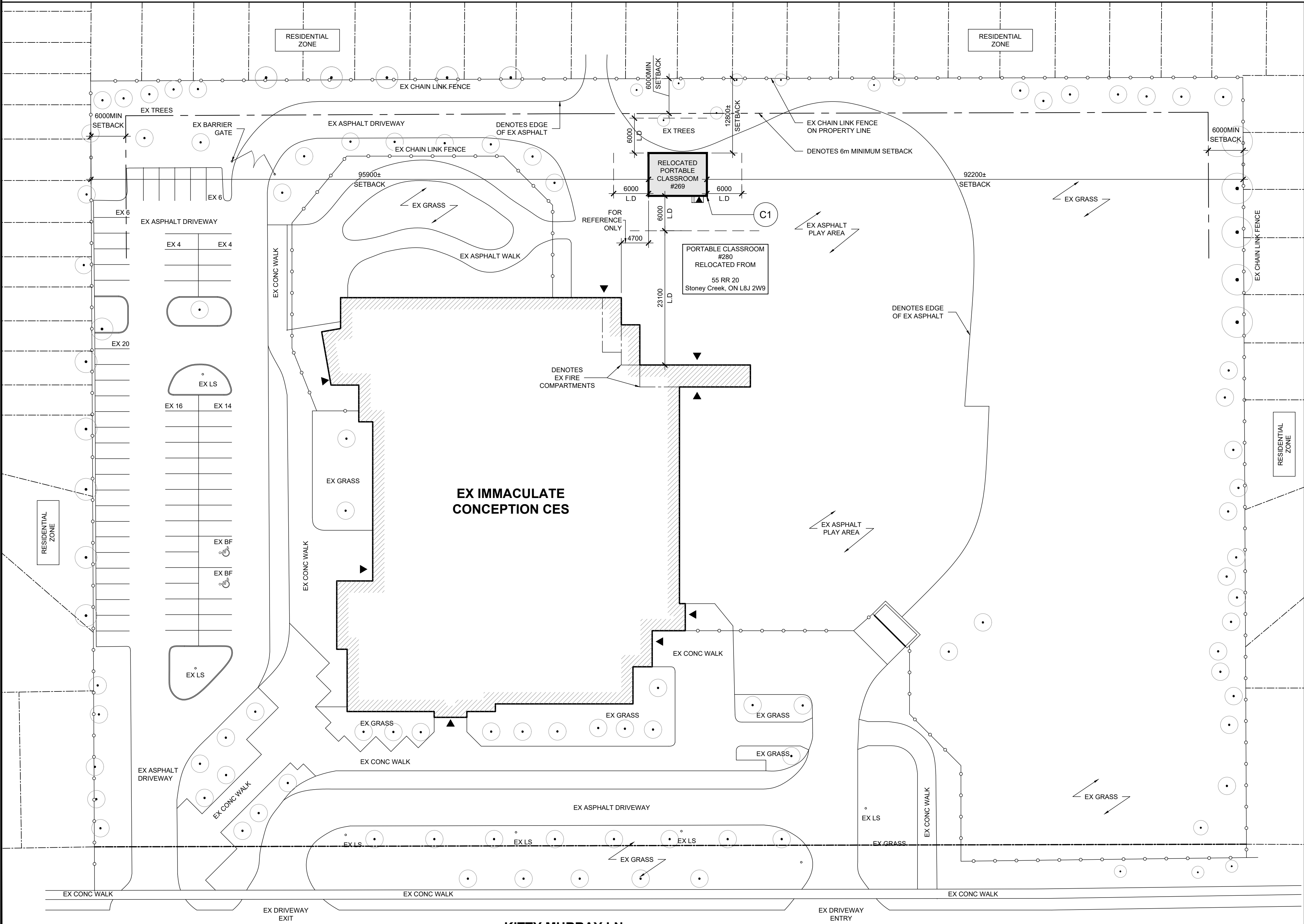
- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORK ARE FENCED OFF FROM EXISTING PLAY AREA AND PARKING LOT ACCESS IS MAINTAINED.
- AREA OF CONSTRUCTION TO BE COORDINATED WITH ARCHITECT AND SCHOOL BOARD PRIOR TO BEGINNING THE WORK.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONNECTIONS FROM EXISTING SCHOOL.
- 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.
- 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.
- PATCH, REPAIR, REPLACE AND MAKE GOOD ALL SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES WITH MATERIALS TO MATCH EXISTING DISTURBED SURFACES.

### CONSTRUCTION NOTES

- C1 RELOCATED SINGLE PORTABLE



LOCATION MAP  
N.T.S.



SITE PLAN  
SCALE: 1:400

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:										
IMMACULATE CONCEPTION CES										
(1) SINGLE PORTABLE RELOCATED CLASSROOM ADDITION										
LOCATION:										
470 Kitty Murray Ln, Ancaster, ON L9K 0C3										
Item	Ontario's 2024 Building Code Data Matrix Parts 3 or 9						OBC Reference			
							References are to Division B unless noted [A] for Division A or [C] for Division C			
1	Project Description: (1) SINGLE RELOCATED PORTABLE CLASSROOM ADDITION				<input type="checkbox"/> New <input checked="" type="checkbox"/> Addition <input type="checkbox"/> Change of Use <input type="checkbox"/> Alteration	<input type="checkbox"/> Part 11 11.1 to 11.4	1.1.2. [A]	<input type="checkbox"/> Part 9 1.1.2 [A] & 9.10.1.3		
2	Major Occupancy(s) GROUP A DIVISION 2						3.1.2.1.(1)	9.10.2		
3	Building Area 74m²						1.4.1.2.[A]	1.4.1.2.[A]		
4	Gross Area 74m²						1.4.1.2.[A]	1.4.1.2.[A]		
5	Number of storeys 1 Above grade 1 Below grade 0						1.4.1.2.[A] & 3.2.1.1	1.4.1.2.[A] & 9.10.4		
6	Number of Streets/ Fire Fighter Access 1						3.2.2.10 & 3.2.5	9.10.20.		
7	Building Classification Group A, Division 2, 1 Storey (3.2.2.28.)						3.2.2.20.-83	9.10.2.		
8	Sprinkler System Proposed				<input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input checked="" type="checkbox"/> not required		3.2.2.20.-83 3.2.1.5. 3.2.2.17. INDEX	9.10.8.2   INDEX		
9	Standpipe required				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.2.9	N/A		
10	Fire Alarm required				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.2.4	9.10.18		
11	Water Service/Supply is Adequate				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.2.5.7.	N/A		
12	High Building				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.2.6	N/A		
13	Permitted Construction				<input type="checkbox"/> Combustible permitted Actual Construction <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both		3.2.2.20.-83	9.10.6		
14	Mezzanine(s) Area m² N/A						3.2.1.1.(3)-(8)	9.10.4.1		
15	Occupant load based on				<input type="checkbox"/> m² /person <input checked="" type="checkbox"/> design of building		3.1.17	9.9.1.3		
	Relocated Portable Classroom				Occupancy ASSEMBLY Load 23 persons					
16	Barrier-free Design				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain) Existing School is Barrier Free		3.8	9.5.2		
17	Hazardous Substances				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.3.1.2. & 3.3.1.19	9.10.1.3(4)		
18	Required Fire Resistance Rating (FRR)	Horizontal Assemblies FRR (Hours)			Listed Design No. or Description (SB-2)		3.2.2.20.-83 & 3.2.1.4 9.10.8. 9.10.9.			
		Floors	-	Hours						
		Roof	-	Hours						
		Mezzanine	-	Hours	N/A					
		FRR of Supporting Members			Listed Design No. or Description (SB-2)					
		Floors	-	Hours						
		Roof	-	Hours						
		Mezzanine	-	Hours	N/A					
19	Spatial Separation - Construction of Exterior Walls						APPENDIX A - CASE 4	3.2.3	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
	South Portable	25	6	3:1 to 10:1	100%	100%	-	Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible
	North EX BLDG	95	23.1	3:1 to 10:1	100%	-	-	Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible
	East	-	-	-	-	-	-	Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible
	West	-	-	-	-	-	-	Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible
20	Travel Distance to Exits (Refer to Drawings)						Refer to drawings for wall assembly construction & cladding types.			
21	Notes: A) No fuel-fire appliances to be used in portables. Unit ventilators are electrical powered. B) A portable fire extinguisher to be provided within the new proposed portable C) A sign is to be posted within the new proposed portables to restrict to a maximum of 23 persons per portable									



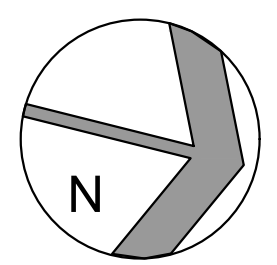
Hamilton-Wentworth  
Catholic District School Board

### 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

ENTRANCE TO BLDG.

EXISTING TREE



1	ISSUED FOR BUILDING PERMIT	2025-01-17
NO	REVISIONS	DATE

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.

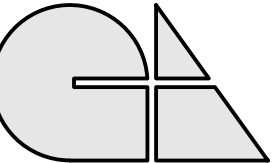


### IMMACULATE CONCEPTION CES RELOCATED PORTABLE CLASSROOM

470 Kitty Murray Ln, Ancaster, ON L9K 0C3

### 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: <b>2024-24</b>
START DATE: DEC 2024	
DRAWN: AH	DRAWING: <b>A1.00</b>
CHECKED: W.P.	
PRINT DATE: 01/17/25	

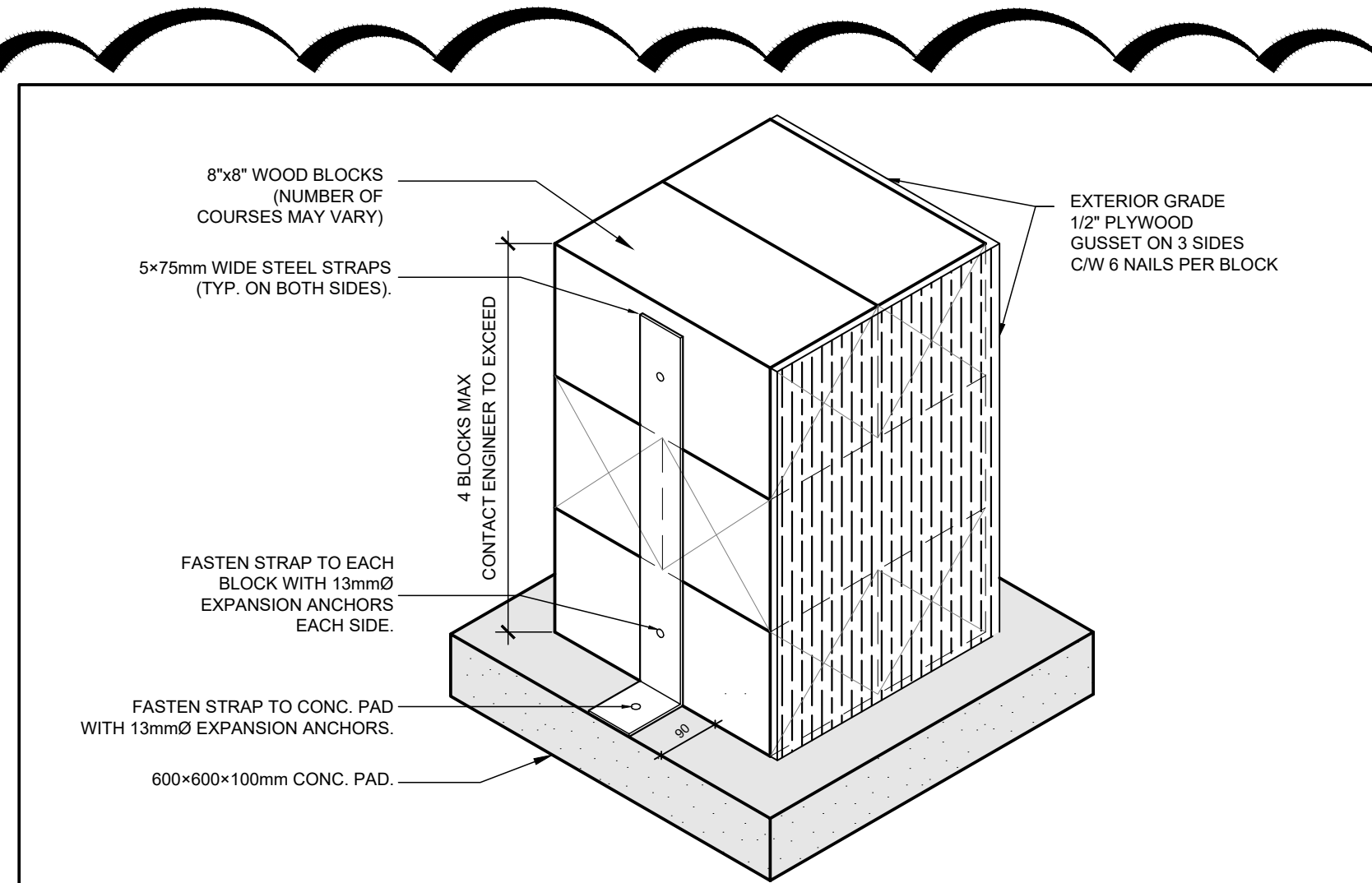
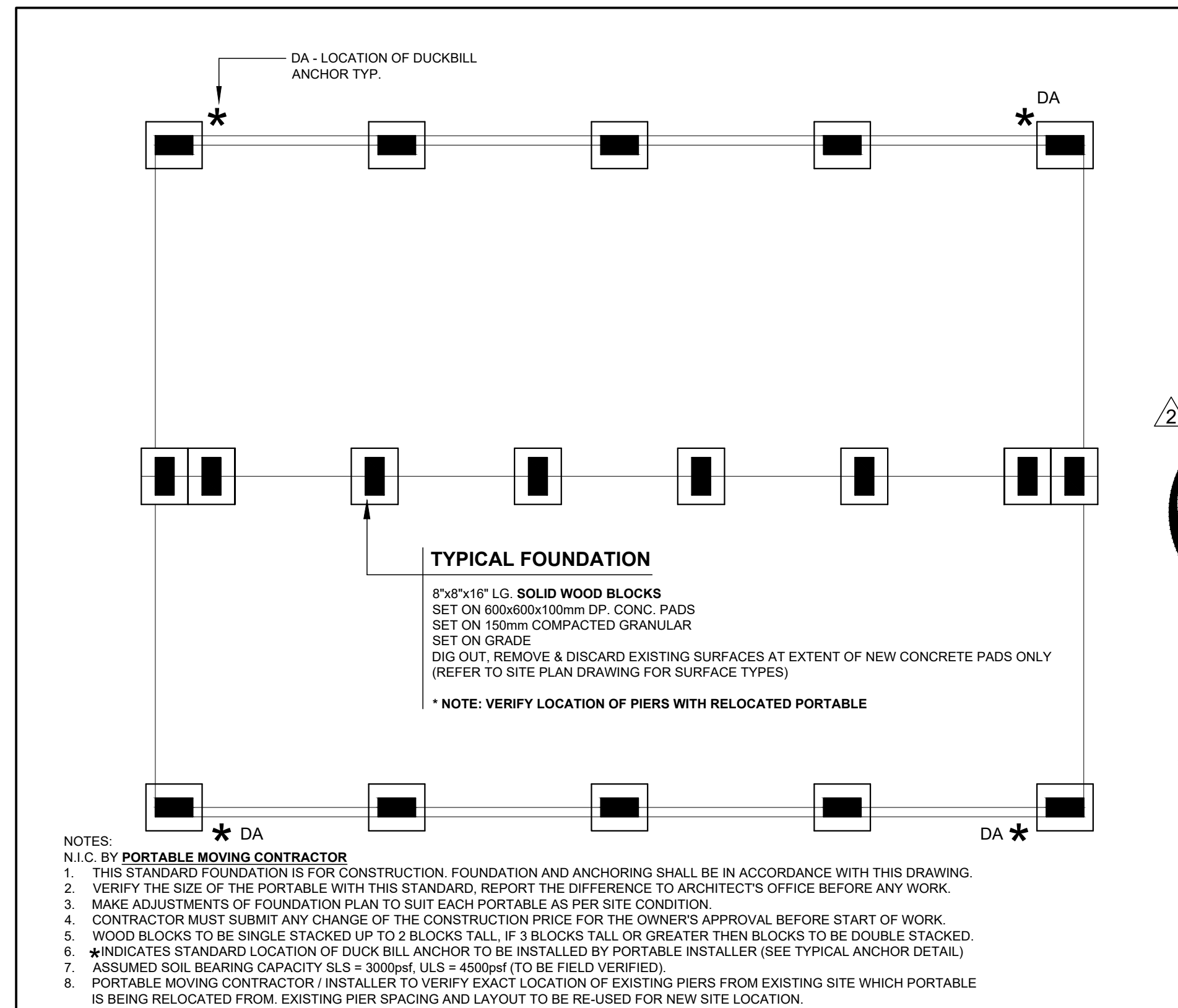
1. ALL PIER HEIGHTS TO BE SITE VERIFIED BY CONTRACTOR, SOLID HARDWOOD SHIMS TO BE USED AS REQUIRED.
2. DUCKBILL ANCHORS TO BE INSTALLED BY PORTABLE MOVING CONTRACTOR, UNDER CASH ALLOWANCE. DENOTED BY DA. ON PIER PLAN.
3. FOUNDATION PIERS AND DUCK BILL ANCHORS TO BE INSTALLED AS PER TYPICAL DETAILS 1, 2 & 3.
4. EXISTING SOIL BEARING CAPACITY TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION

5. LOCATION OF ALL EXISTING PIERS TO BE SITE VERIFIED BY PORTABLE MOVING CONTRACTOR AT EXISTING SITE WHERE PORTABLE IS BEING RELOCATED FROM. EXISTING PIER SPACING AND LAYOUT IS TO BE RE-USED FOR THIS SITE. PIER PLAN IS SHOWN FOR REFERENCE ONLY. ALL DIMENSIONS MUST BE VERIFIED BEFORE INSTALLATION & ADJUSTMENTS MUST BE MADE TO THE FOUNDATION PLAN TO SUIT PER SITE CONDITIONS. ANY DISCREPANCIES TO BE REPORTED TO ARCHITECT PRIOR TO INSTALLATION.

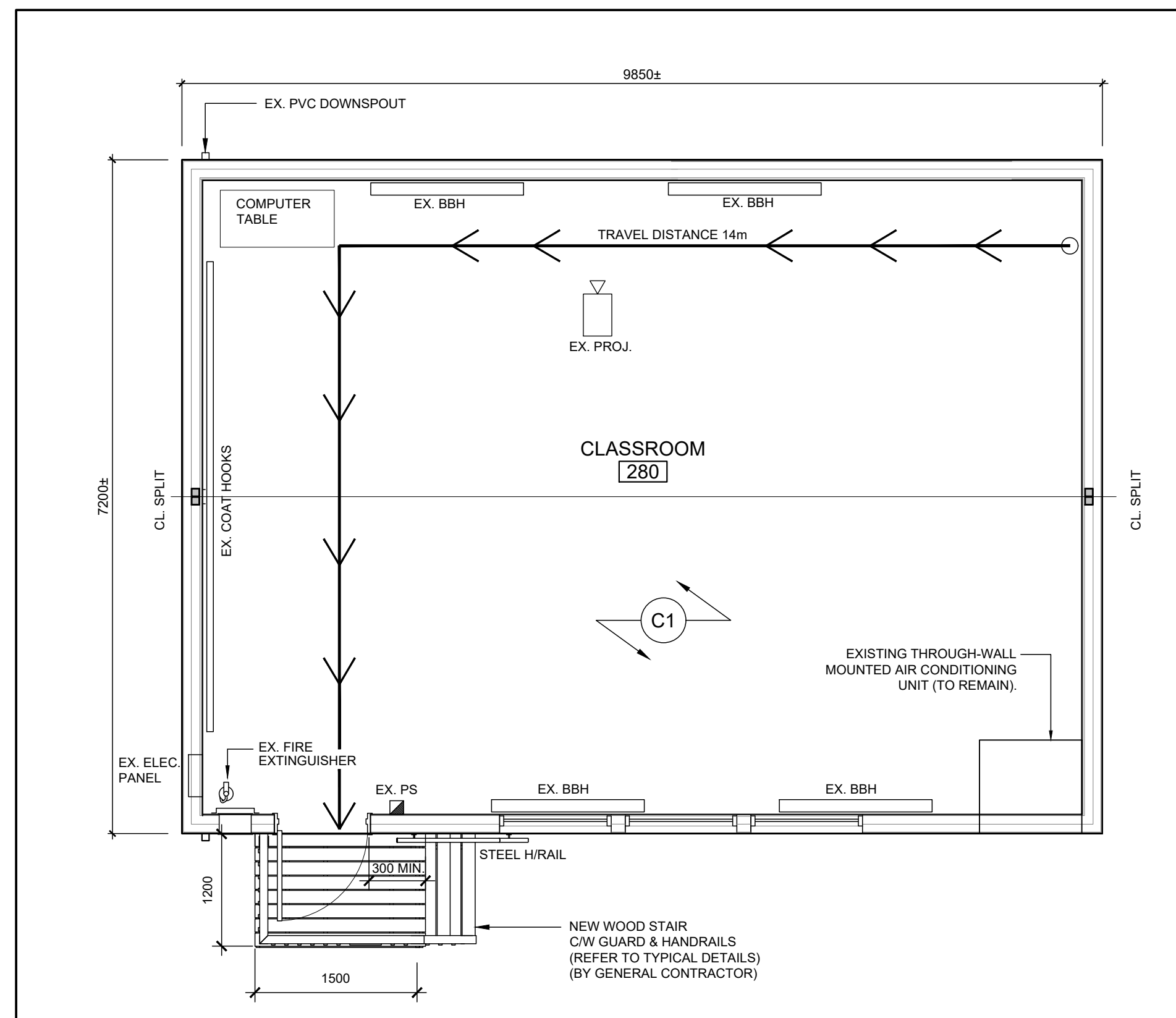
**C1** ALLOW FOR VCT FLOOR REPAIR UNDER CASH ALLOWANCE

**NOTE:** FLOOR PLAN SHOWN IS A GENERAL ARRANGEMENT OF A TYPICAL EXISTING PORTABLE UNIT. UNIT VENTILATORS, DEVICES, DAMPERS & DOORS, ETC. MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN ON PLAN. TO BE SITE VERIFIED FOR EACH EXISTING PORTABLE TO BE RELOCATED. THIS IS FOR GENERAL REFERENCE. REFER TO SITE PLAN DRAWING & BUILDING ELEVATIONS FOR ORIENTATION OF PORTABLES & RELATED DETAILS.

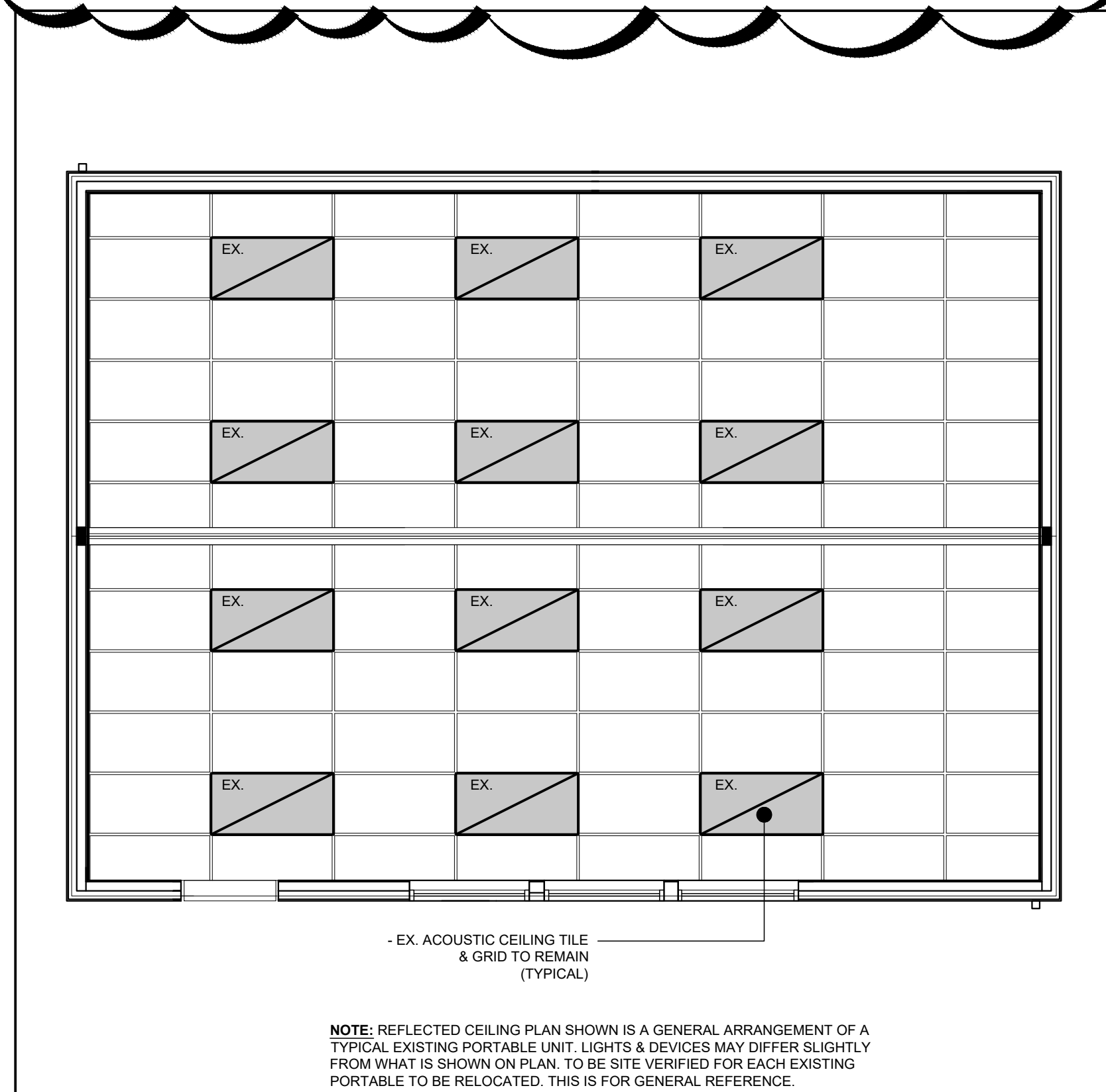
<b>PROJECT DESIGN DATA TABLE</b>		
BUILDING IMPORTANCE		NORMAL
LIVE LOAD : 2.4 kPa		
<b>SPECIFIED SNOW AND RAIN LOADS</b>		
RAIN LOADING DESIGN DATA (1/50)	24 hr. RAIN	108 mm
SNOW LOADING DESIGN DATA (1/50)	Ss	1.5 kPa
	Sr	0.4 kPa
	S	1.6 kPa
BASIC ROOF SNOW LOAD		
ADDITIONAL SNOW ACCUMULATION IS SHOWN ON THE DRAWINGS		
<b>SPECIFIED WIND LOADS</b>		
HOURLY WIND PRESSURE DESIGN DATA	0.46 kPa	
WIND DESIGN CATEGORY	CATEGORY 2	
TERRAIN TYPE	'OPEN'	
<b>SPECIFIED EARTHQUAKE LOADS</b>		
SEISMIC LOADING DESIGN DATA	PROBABILITY OF EXCEEDANCE IN 50 YEARS = 2%	
	Sa (0.2, X <sub>0</sub> ) = 0.375	Sa (2.0, X <sub>0</sub> ) = 0.0799
	Sa (0.5, X <sub>0</sub> ) = 0.308	Sa (5.0, X <sub>0</sub> ) = 0.0206
	Sa (1.0, X <sub>0</sub> ) = 0.174	Sa (10.0, X <sub>0</sub> ) = 0.00636
	PGA (X <sub>0</sub> ) = 0.235	PGV (X <sub>0</sub> ) = 0.2
SITE CLASS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER		
SITE CLASS = D		
SEISMIC FORCE MODIFICATION FACTORS FOR SEISMIC RESISTING SYSTEM	Rd	3.0
	Ro	1.7
SEISMIC CATEGORY	SC3	



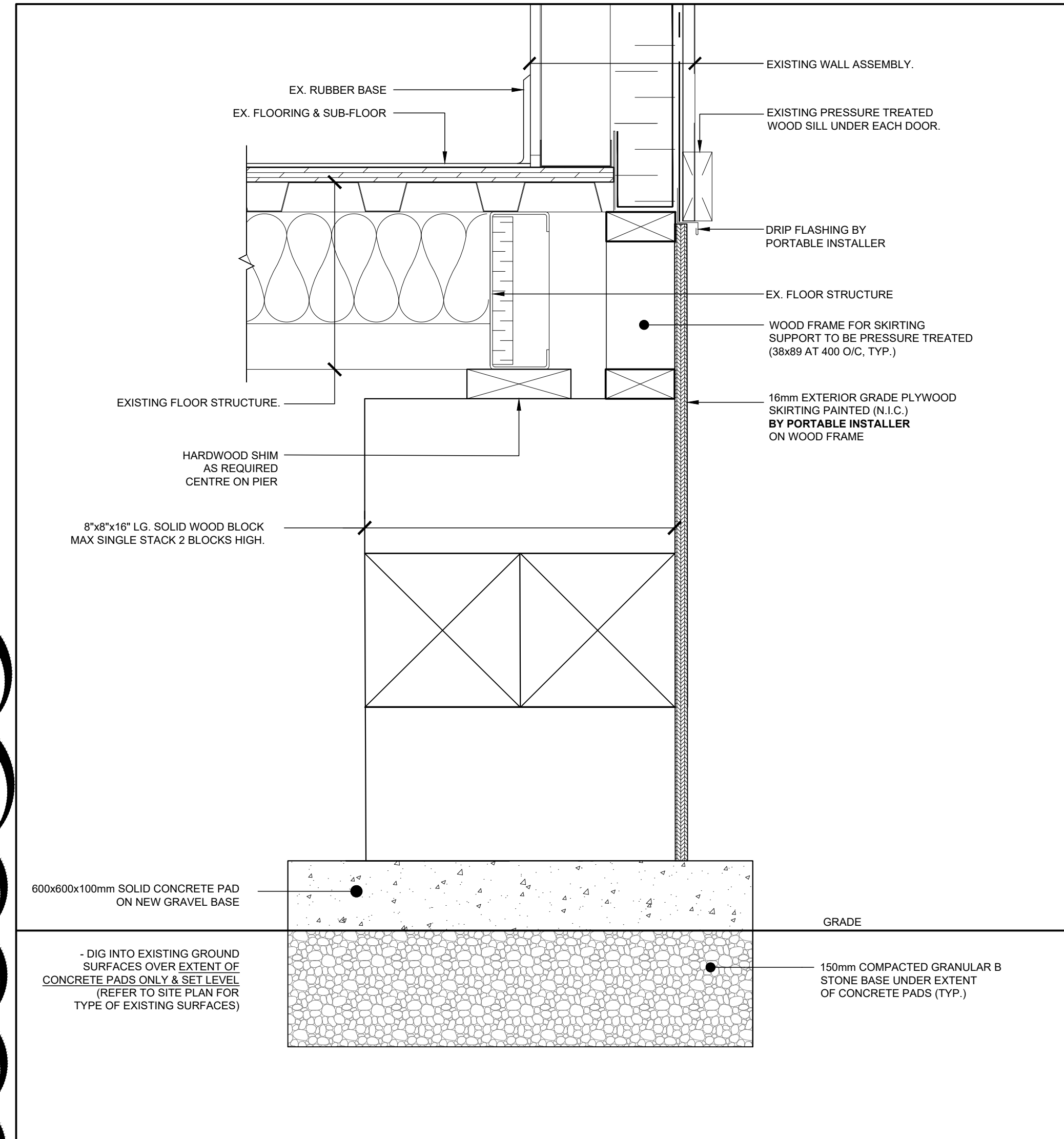
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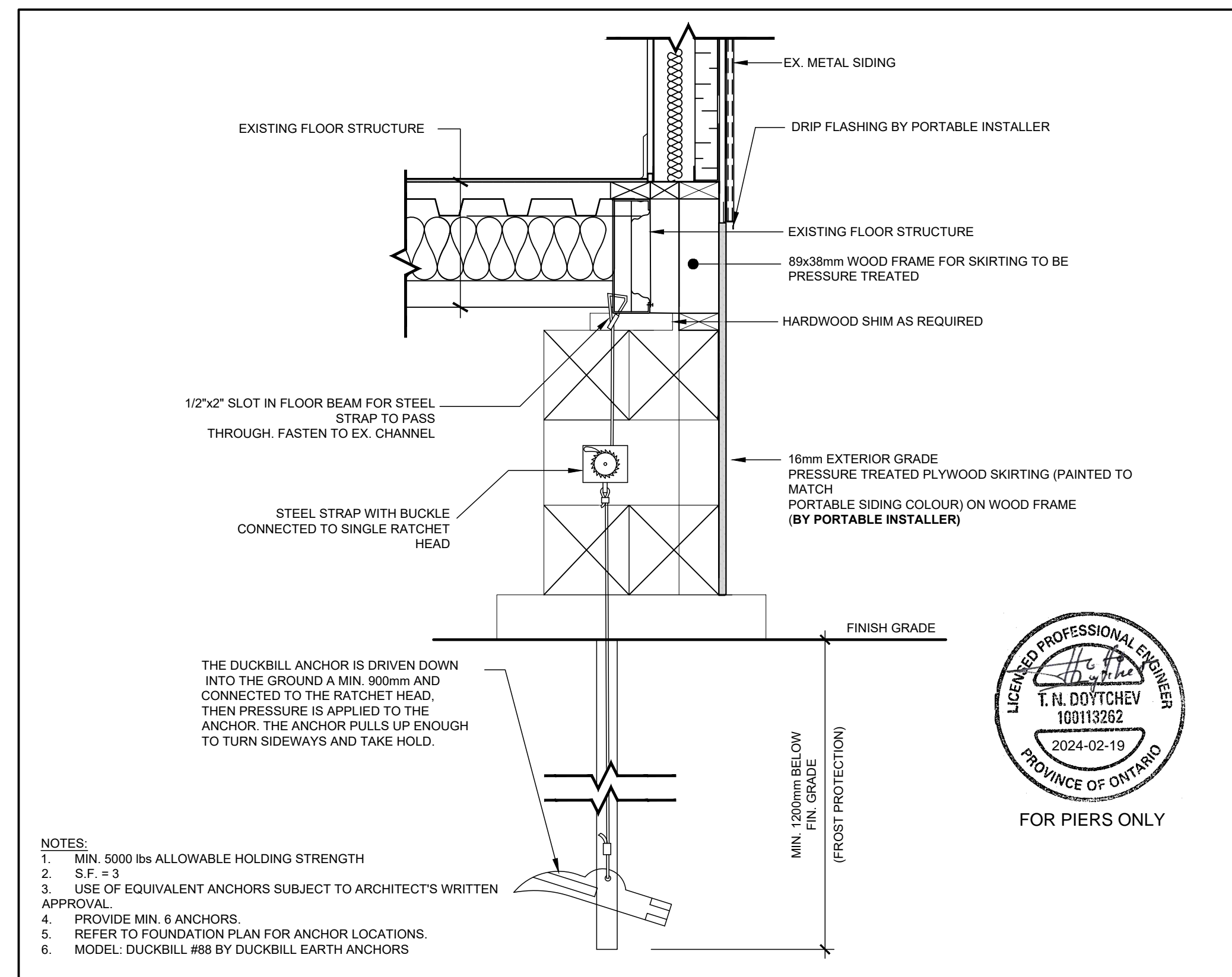
SCALE: 1:50



SCALE: 1:50



(A2.00) SCALE: 1:5



A2.00



Hamilton-Wentworth  
Catholic District School Board

### LEGEND

BF BARRIER FREE  
CB CATCH BASIN  
CLF CHAIN LINK FENCE  
C/W COMPLETE WITH  
EA EACH  
EX EXISTING  
FH FIRE HYDRANT  
LD LIMITING DISTANCE  
T/O TOP OF  
TYP TYPICAL  
U/S UNDERSIDE  
U/V UNIT VENTILATOR  
WP WALL PACK

2	REVISED PER BUILDING DEPT. COMMENTS	2025-02-18
1	ISSUED FOR BUILDING PERMIT	2025-01-17
NO	REVISIONS	DATE

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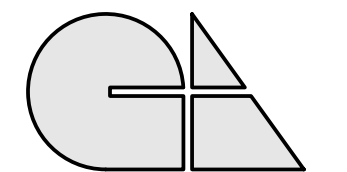


IMMACULATE  
CONCEPTION CES  
RELOCATED  
PORTABLE CLASSROOM

470 Kitty Murray Ln, Ancaster, ON L9K 0C3

## PORTABLE CLASSROOM '280' FLOOR PLANS, PIER PLAN & DETAILS

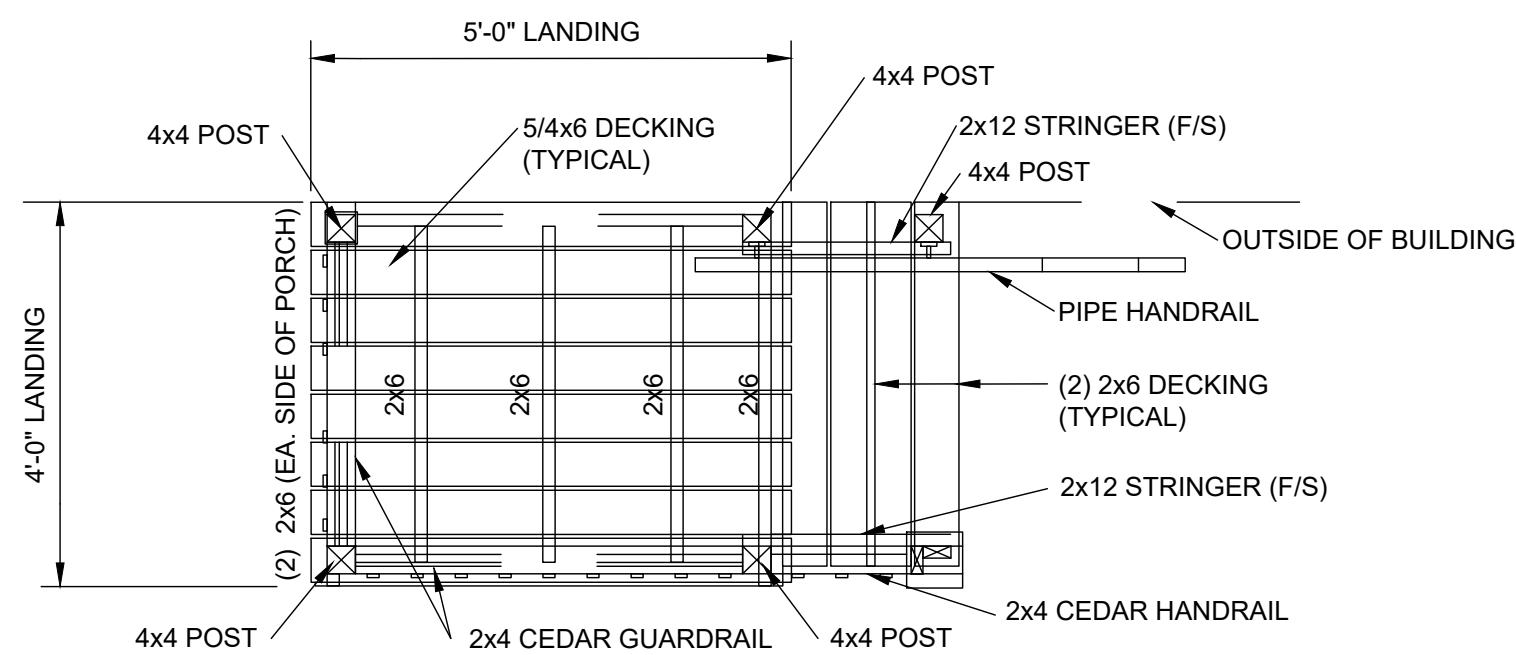
GRGURIC  
ARCHITECTS  
INCORPORATED



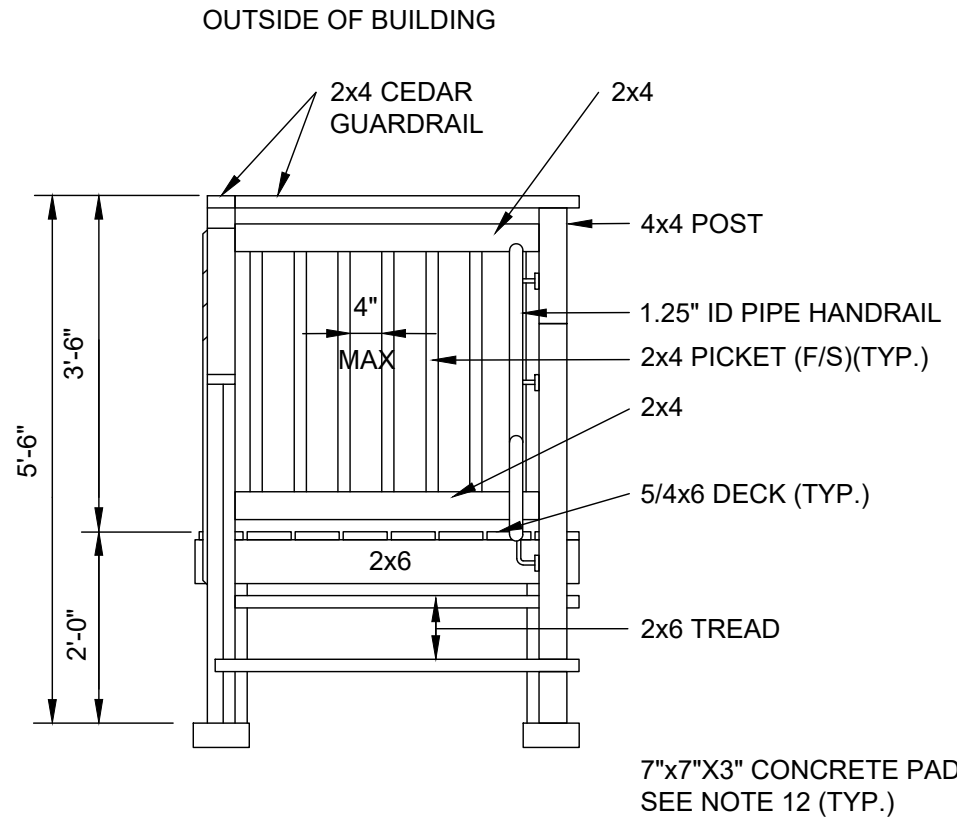
28 KING STREET EAST, UNIT B  
STONE CREEK, ONTARIO, L8G 1J8  
Tel. 905-664-8735 Fax. 905-664-8737  
Web: [www.2gai.com](http://www.2gai.com)

SCALE: AS NOTED	PROJECT:  2024-24
START DATE: DEC 2024	
DRAWN AH	DRAWING:  A2.00
CHECKED W.P.	
PRINT DATE	02/19/25

S:\Data\2024\2024-24-HWCDSB-Variou\_Portables\65drawings\12-Working Drawings\1C  
A2 00-arch-struct-1C.dwg

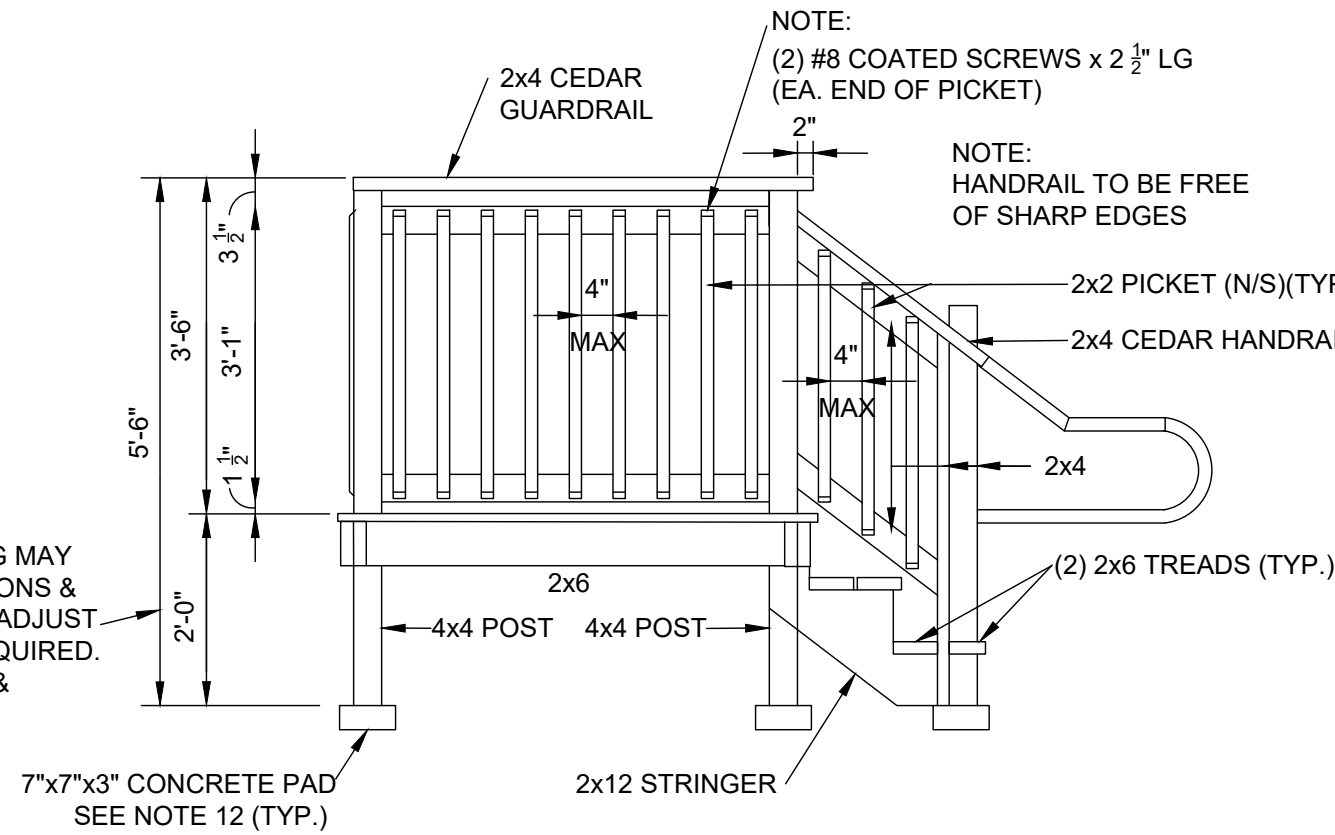


**PORCH PLAN**  
SCALE 1/2" = 1'-0"

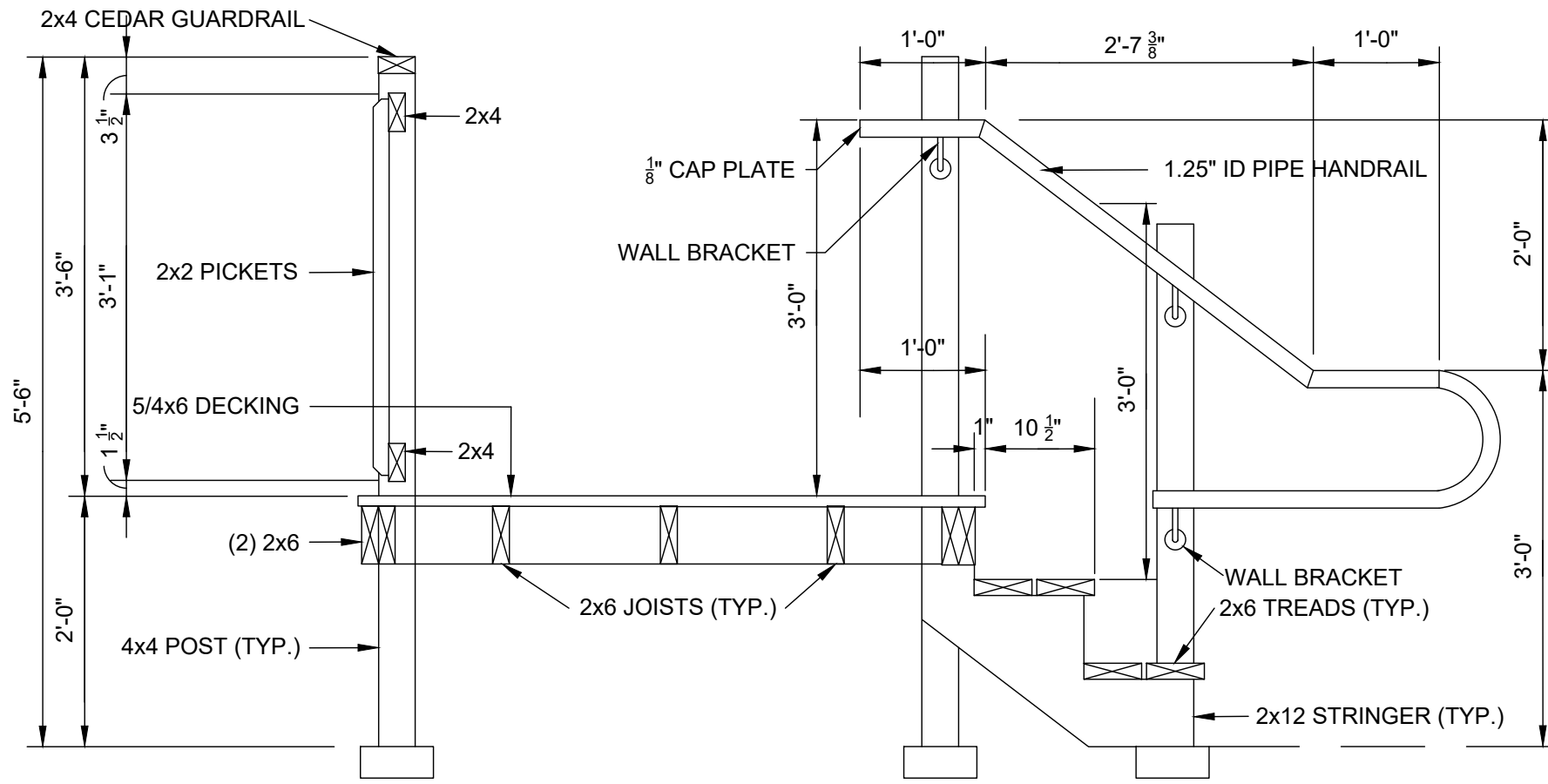


**STAIR SIDE ELEVATION**  
SCALE 1/2" = 1'-0"

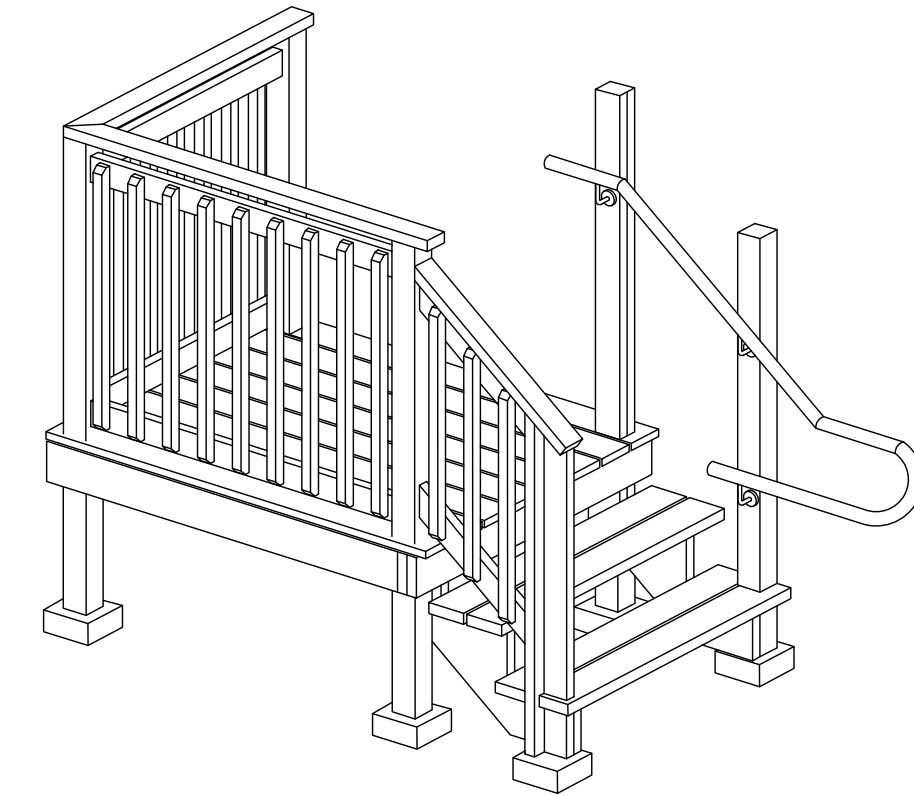
NOTE: HEIGHT TO TOP OF LANDING MAY VARY BASED ON EX. SITE CONDITIONS & GRADES. GC TO SITE VERIFY AND ADJUST STAIR RISERS TO SUIT WHERE REQUIRED. STAIR RISERS MUST BE UNIFORM & BETWEEN 5" & 7 7/8"



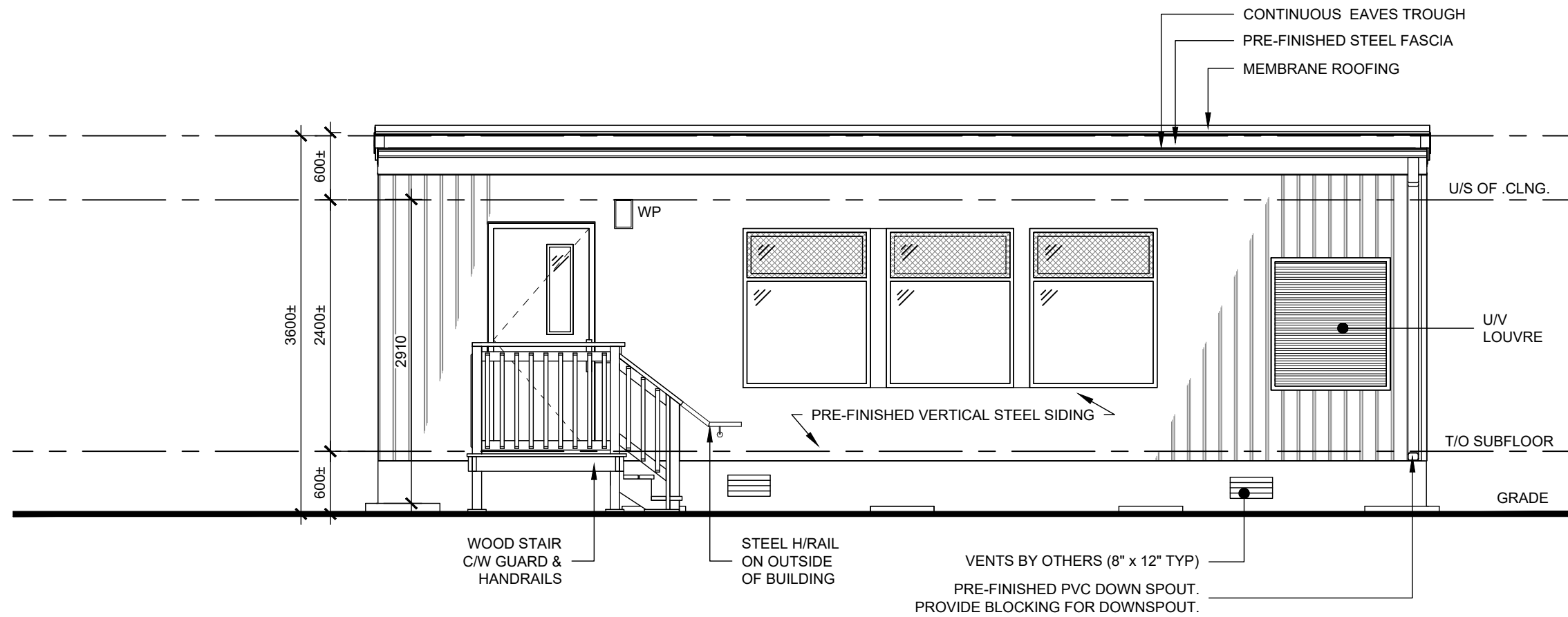
**FRONT ELEVATION**  
SCALE 1/2" = 1'-0"



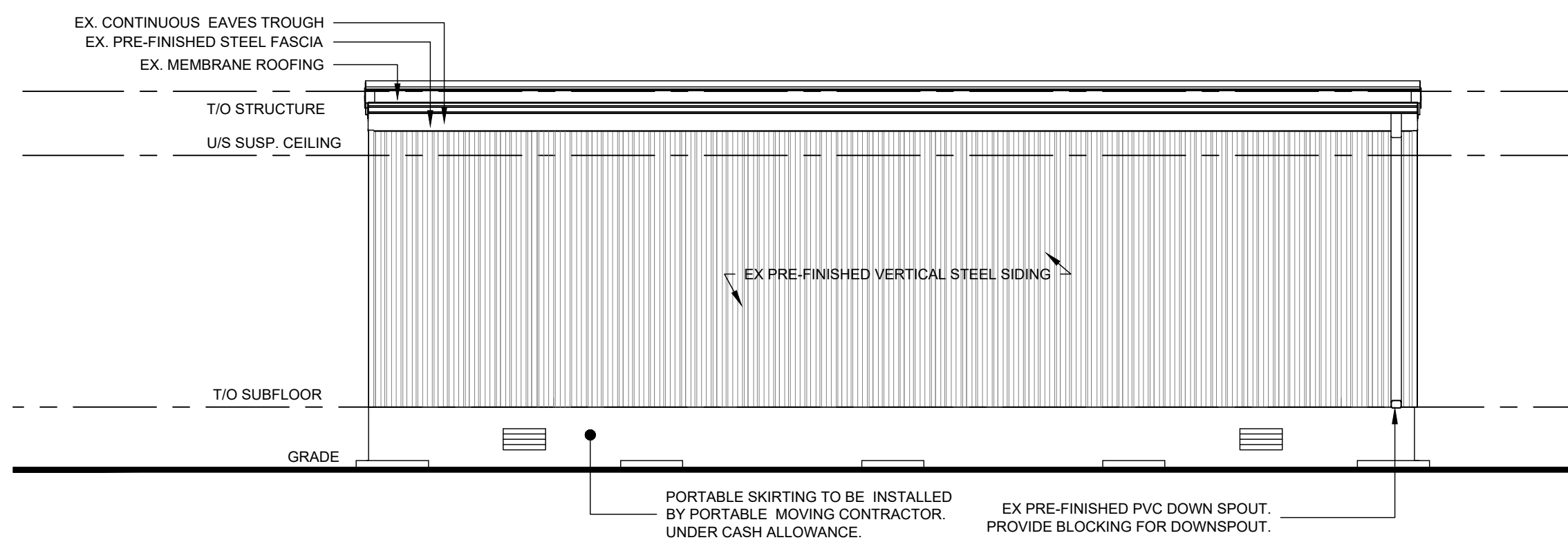
**CROSS SECTION**  
SCALE 3/4" = 1'-0"



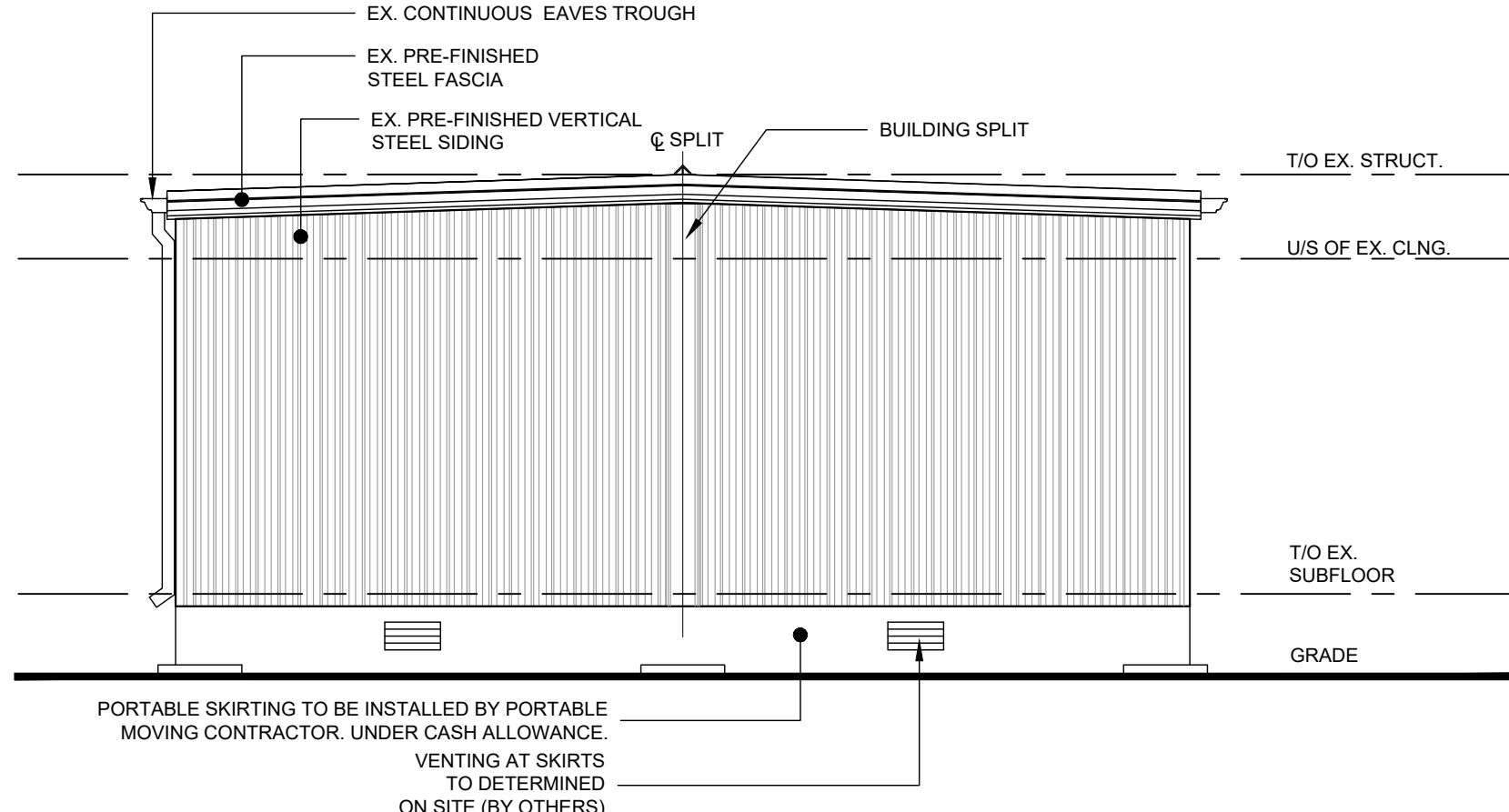
**ISOMETRIC VIEW**



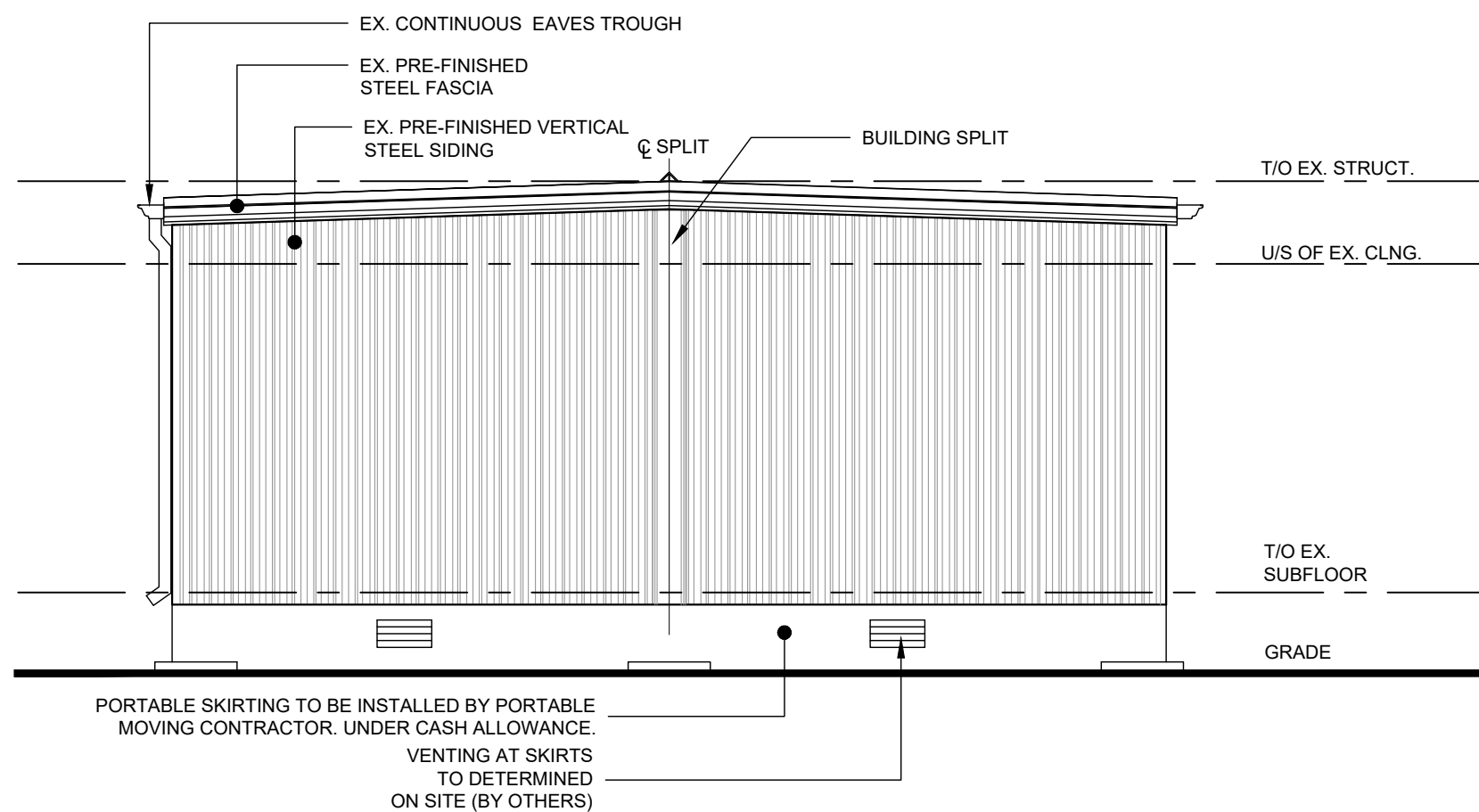
**SOUTH ELEVATION**  
SCALE: 1:50



**NORTH ELEVATION**  
SCALE: 1:50



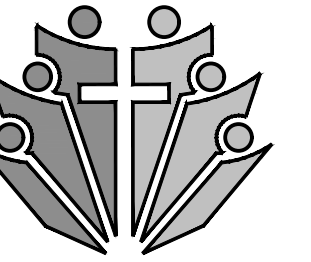
**WEST ELEVATION**  
SCALE: 1:50



**EAST ELEVATION**  
SCALE: 1:50

## PORCH NOTES

1. SCREW PORCH TO POSTS WITH 3" SCREWS, 2 1/2" SCREWS FOR HANDRAILS, STEPS, AND PICKETS
2. WOOD IS PRESSURE TREATED #2 S.P.F.
3. STAIRS MORE THAN 3'-8" IN WIDTH WILL REQUIRE HANDRAILS ON BOTH SIDES, PROVIDE EXTRA STRINGER MID POINT OF STAIR.
4. STAIR HANDRAIL HEIGHT MUST BE BETWEEN 2'-10" AND 3'-2" MEASURED FROM THE TREAD NOSING.
5. THE LANDING GUARD MUST BE MORE THAN 3'-6" HIGH AND THE STAIR GUARD RAIL MUST BE MORE THAN 3'-0" HIGH.
6. THE LANDING GUARD MUST NOT FACILITATE CLIMBING BETWEEN 5 1/4" TO 3'-0" ABOVE LANDING.
7. THE RISE BETWEEN STAIRS MUST BE UNIFORM AND BE BETWEEN 5" AND 7 7/8".
8. ENSURE A CLEAR SPACE OF 1'-0" FROM DOOR TO THE FIRST RISER.
9. NOTE: FINAL RISE TO BE SITE VERIFIED PRIOR TO CONSTRUCTION.
10. GUARDS AND RAILINGS TO WITHSTAND 0.75kN/M OR A CONCENTRATED LOAD OF 1.0kN APPLIED AT ANY POINT.
11. LIVE LOAD STAIR AND LANDING = 4.80kPa
12. SITE CONDITIONS DETERMIN PORCH AND STAIR FOUNDATION, 7"x7"x3" CONCRETE PADS TO BE USED (AS SHOWN ON DRAWING) WHERE AFORMENTIONED STRUCTURE IS PLACED ON GRASS OR DIRT; PT 2x6'S WHERE STRUCTURE IS PLACED ON CONCRETE OR ASPHALT.



Hamilton-Wentworth  
Catholic District School Board

## LEGEND

BF BARRIER FREE  
CB CATCH BASIN  
CLF CHAIN LINK FENCE  
CW COMPLETE WITH  
EA EACH  
EX EXISTING  
FH FIRE HYDRANT  
LD LIMITING DISTANCE  
TO TOP OF  
TYP TYPICAL  
U/S UNDERSIDE  
U/V UNIT VENTILATOR  
WP WALL PACK

1 ISSUED FOR BUILDING PERMIT 2025-01-17  
NO REVISIONS DATE

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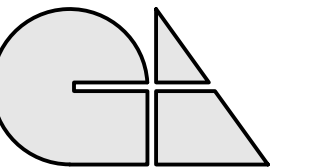


IMMACULATE  
CONCEPTION CES  
RELOCATED  
PORTABLE CLASSROOM

470 Kitty Murray Ln, Ancaster, ON L9K 0C3

PORTABLE  
CLASSROOM '280'  
ELEVATIONS &  
PORCH/STAIR DETAIL





GRGURIC  
ARCHITECTS  
INCORPORATED

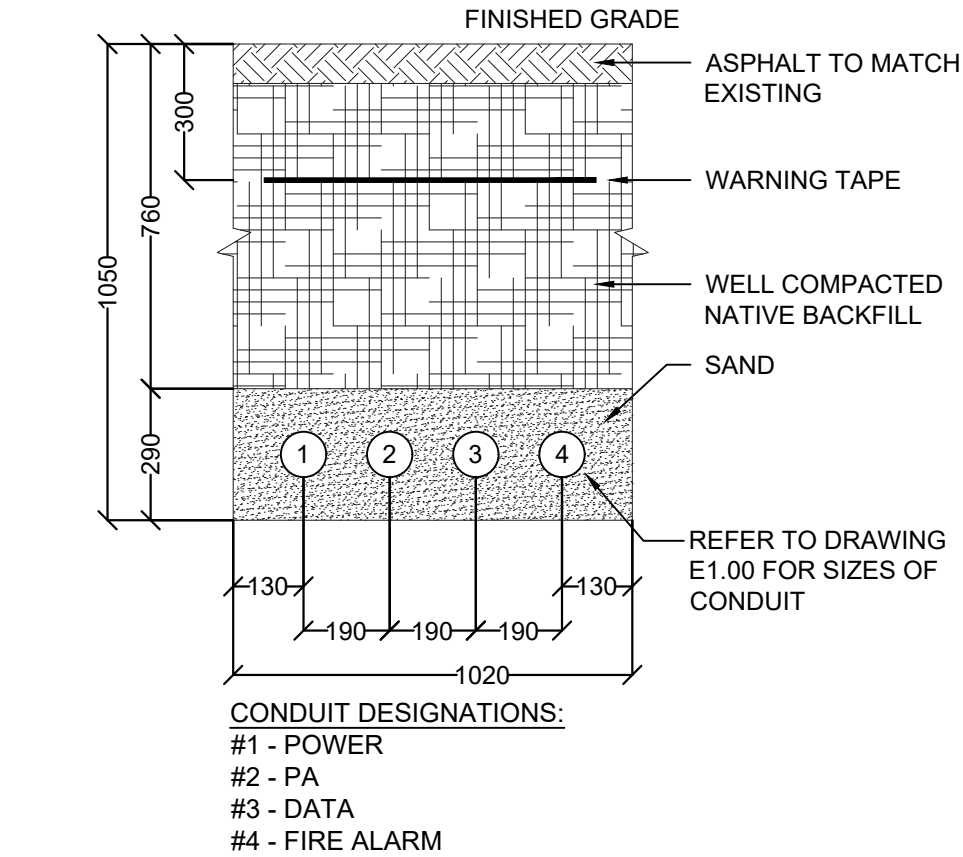


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Tel. 905-664-8735 Fax. 905-664-8737  
Web: www.2gai.com

SCALE:  
AS NOTED  
PROJECT:  
2024-24  
START DATE:  
DEC 2024  
DRAWN:  
AH  
CHECKED:  
W.P.  
DRAWING:  
A3.00  
PRINT DATE: 01/17/25

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ELECTRICAL LEGEND		ABBREVIATIONS			
	FLUSH MOUNTED, SURFACE MOUNTED PANELBOARDS.	AC	ABOVE COUNTER	NTS	NOT TO SCALE
	FIRE ALARM PULL STATION	AFF	ABOVE FINISHED FLOOR	OC	ON CENTER
	FIRE ALARM HORN/STROBE COMBO	C	CONDUIT	P	POLES
	FIRE ALARM HEAT DETECTOR	C/B	CIRCUIT BREAKER	PH	PHASE
		⌀	CENTERLINE	STD	STANDARD
		E/EX/EXIST	EXISTING TO REMAIN	SWBD	SWITCHBOARD
		EC	EMPTY CONDUIT	REL	TO BE RELOCATED
		EMT	ELECTRICAL METALLIC TUBING	REM	TO BE REMOVED
		FA	FIRE ALARM	TYP	TYPICAL
		G/GRD/GND	GROUND	UNF	UNFUSED
		HP	HYDRO POLE	UON	UNLESS OTHERWISE NOTED
		MTD	MOUNTED	W	WIRE
		N/NEW	NEW EQUIPMENT	WP	WEATHERPROOF
		NIC	NOT IN CONTRACT		



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

ELECTRICAL SPECIFICATIONS

- 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.
- 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.
- ALL EMERGENCY/EXIT LIGHTING EQUIPMENT TO MEET CSA C22.2 NO.141-M.
- 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.
- 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.
- CONTRACTOR TO PROVIDE FOUR (4) SETS OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS FOR SCHOOL BOARDS UPON COMPLETION OF WORK.
- 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.
- APPROPRIATE SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT AND CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO ORDER PLACEMENT.
- 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.
- VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
- COORDINATE WORK WITH ALL OTHER TRADES.
- 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.
- 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.
- 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.
- ALL WIRE AND CABLE SHALL BE XLPE, RW90 OR RWU90 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.
- CONDUIT INSTALLATION SHALL PROVIDE GROUND CONTINUITY. PROVIDE SEPARATE GROUND CONDUCTORS WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED BY CODE.
- A UPDATED AND/OR COMPLETE TYPEWRITTEN PANEL DIRECTORY SHALL BE PROVIDED FOR ALL PANELBOARDS. LABEL ALL ELECTRICAL EQUIPMENT WITH MECHANICALLY FASTENED LAMACOID NAMEPLATES, WHITE WITH BLACK LETTERS DEPICTING VOLTAGE, PHASE, FEED BREAKER NUMBER & LOCATION AND DEVICE NAME.
- SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE OMQB, 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.
- ALL FUSES SHALL BE BUSSMAN, CURRENT LIMITING TYPE LPS-RK, SIZE AS INDICATED ON THE CONTRACT DRAWINGS.
- PANELBOARD SHALL BE CIRCUIT BREAKER DISTRIBUTION TYPE RATED 240 VOLTS, 400 AMPS, 3 PHASE, 4-WIRE WITH BOLT ON MULTI-POLE CIRCUIT BREAKERS IN NEMA 1 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.
- 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.
- FOR WIRES IN CONDUIT, CONDUCTOR SIZES ARE BASED ON NOT MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A CONDUIT INCREASE THE CONDUCTOR SIZE ACCORDINGLY, TO THE SATISFACTION OF THE CONSULTANT.
- 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.

- POWER:** PROVIDE NEW 125A - 208V/1PH CIRCUIT FROM THE EXISTING SWITCHBOARD 'PP-1' IN THE MAIN ELECTRICAL ROOM OF THE MAIN SCHOOL C/W NEW 125A/2P BREAKER. PROVIDE NEW FEEDER FROM EXISTING PANEL TO RELOCATED PORTABLE LOCATION. REFER TO DRAWING E1.00 AND TRENCH DETAILS FOR MORE INFORMATION.
- LIGHTING:** EXISTING LIGHT FIXTURES WITHIN THE PORTABLES TO REMAIN AS IS. ENSURE PROPER OPERATION OF ALL UNITS. REPLACE ANY DAMAGED PARTS WITH NEW TO MATCH EXISTING.
- EMERGENCY/EXIT LIGHTING:** EXISTING EXIT AND EMERGENCY LIGHTING UNITS TO REMAIN AS IS. ENSURE PROPER OPERATION OF ALL UNITS. REPLACE ANY DAMAGED PARTS WITH NEW TO MATCH EXISTING.
- FIRE ALARM:** PROVIDE NEW FIRE ALARM HORN/STROBE COMBOS, HEAT DETECTORS AND PULL STATIONS WITH NOTIFIER DEVICES TO BE COMPATIBLE WITH THE EXISTING NOTIFIER PANEL LOCATED IN MAIN ELECTRICAL ROOM IN THE MAIN SCHOOL. PROVIDE NEW CONDUIT AND FEEDER FROM MAIN PANEL TO PORTABLE LOCATION. PROGRAM AND ADD ALL EQUIPMENT TO CONTROL THE NEW DEVICES. PROVIDE SECUREX TYPE CABLE WIRING AS REQUIRED TO CONNECT DEVICES TO THE FIRE ALARM SYSTEM. RETAIN NOTIFIER 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 MAIN SCHOOL TO RELOCATED PORTABLE. NEW UNDERGROUND CONDUITS TO BE STUBBED UP AT THE PORTABLE LOCATION. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS.
- PUBLIC ADDRESS:** PROVIDE NEW UNDERGROUND CONDUIT FROM THE EXTERIOR OF THE MAIN SCHOOL TO THE RELOCATED PORTABLE. PROVIDE NEW WIRING FROM THE MAIN PA PANEL IN THE MAIN ELECTRICAL ROOM 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 ONE CAT5e CABLE FROM THE MAIN PA PANEL ABOVE THE CORRIDOR CEILING TO RELOCATED PORTABLE.
  - RETAIN HAMILTON VIDEO AND SOUND TO PROGRAM THE NEW SPEAKERS AND FINAL TESTING.
- DATA:** PROVIDE NEW DATA CABLES FROM THE IT RACK IN THE EXISTING IT ROOM IN THE DATA ROOM ON THE GROUND FLOOR OF THE MAIN SCHOOL. TERMINATE IN EACH OUTLET IN THE RELOCATED PORTABLE. ELECTRICAL CONTRACTOR SHALL PROVIDE MINIMUM 21MM (3/4") DIA. CONDUIT OF EMT, AND BOXES, INCLUDING PULL STRINGS, FOR ALL NEW DATA DEVICES. PROVIDE NEW UNDERGROUND CONDUIT FROM THE EXTERIOR OF THE MAIN SCHOOL TO RELOCATED 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.

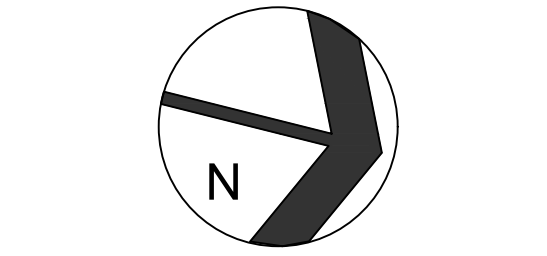
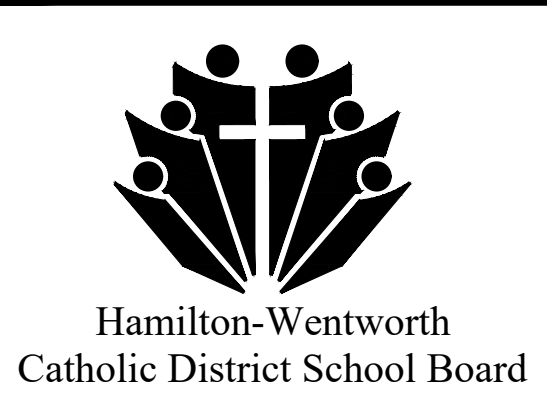
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH DATA SUBCONTRACTOR AND BOARD'S INFORMATION & COMMUNICATION TECHNOLOGY DEPARTMENT DAVID KNIGHT (905 525-2930 x 2990, dknight@hwdsb.on.ca) PRIOR TO INSTALLING ANY OUTLETS, CONDUIT ETC.
- APPROVED CONTRACTORS

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

- SECURE SOLUTIONS  
TONY WARD  
905-869-0999  
TONY@SECUREOLUTION.CA

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

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



1	ISSUED FOR PERMIT/TENDER	2025-01-16
NO	REVISIONS	DATE

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.



IMMACULATE  
CONCEPTION CES  
RELOCATED  
PORTABLE CLASSROOM

470 Kitty Murray Ln, Ancaster, ON L9K 0C3

ELECTRICAL  
SPECIFICATIONS,  
SCHEDULES AND  
DETAILS



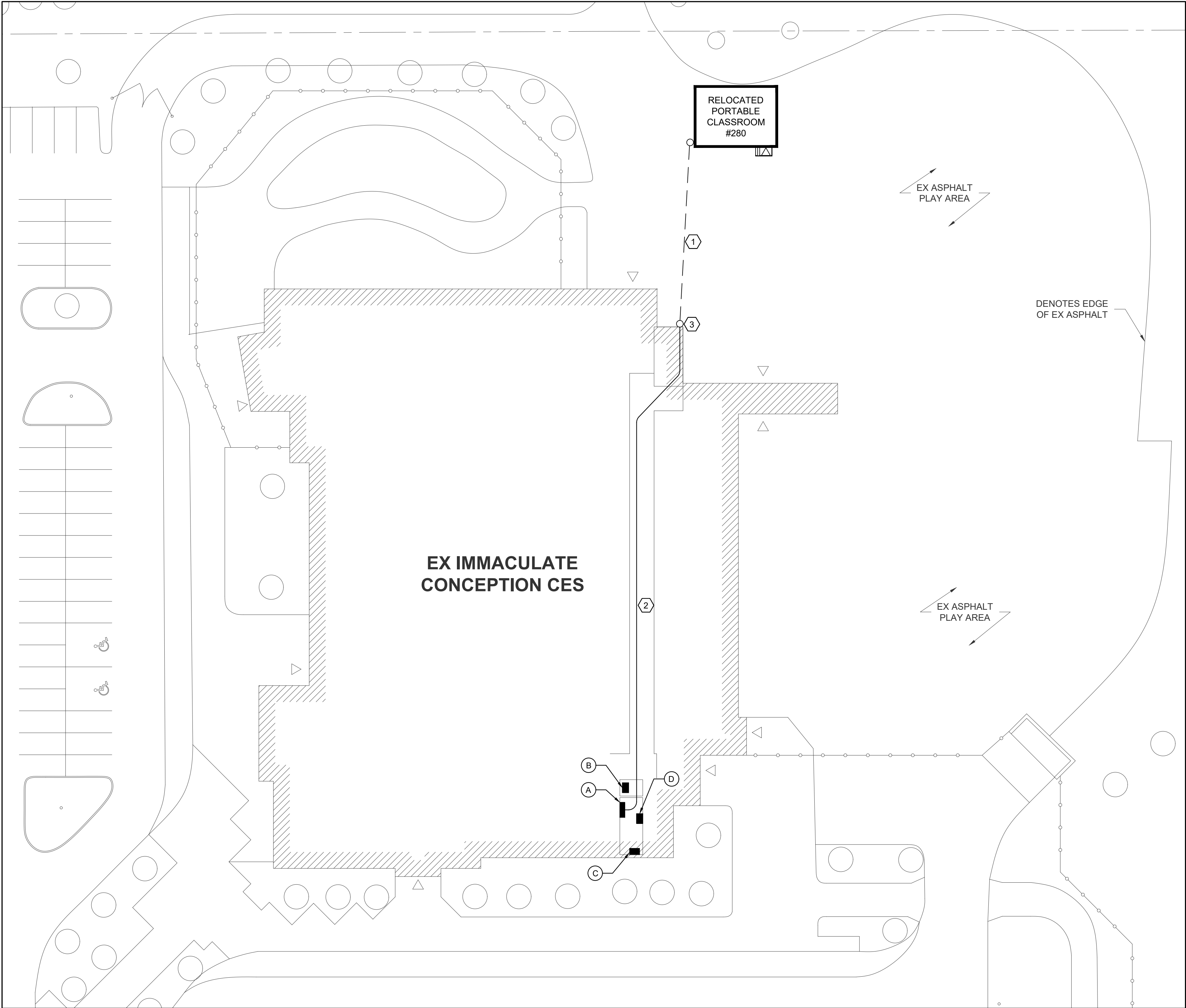
SCALE: AS NOTED	PROJECT: <b>24058</b>
START DATE: JAN 2025	
DRAWN JM	DRAWING: <b>E0.01</b>
CHECKED J.M.	
PRINT DATE	01/16/25

EQUIPMENT LIST:

- (A) EXISTING 800A - 120/208V/3PH/4W SWITCHBOARD 'PP-1' LOCATED IN MAIN ELECTRICAL ROOM TO REMAIN AS IS. PROVIDE ONE (1) NEW 125/2P BREAKER FOR RELOCATE PORTABLE. PROVIDE 3#1AWG + GND IN 41mm (1-1/2") DIA. PVC CONDUIT FOR PORTABLE POWER. CONFIRM EXACT ROUTING ON SITE PRIOR TO TENDERING.
- (B) EXISTING MAIN IT RACK LOCATED IN DATA ROOM TO REMAIN AS IS.
- (C) EXISTING NOTIFIER FIRE ALARM PANEL TO REMAIN AS IS. PROVIDE NEW WIRING FOR NEW PORTABLE DEVICES CONNECTED TO NEW ZONE IN THE FIRE ALARM PANEL. NEW WIRING TO BE ROUTED FROM PANEL THROUGH THE CEILING SPACE OF THE CORRIDOR ON THE GROUND FLOOR.
- (D) EXISTING DUKANE PA MAIN PANEL IN MAIN ELECTRICAL ROOM TO REMAIN AS IS. ALL NEW CABLES FOR THE PA EQUIPMENT IN THE NEW 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.

DRAWING NOTES:

- (1) PROVIDE NEW UNDERGROUND DUCTBANK FROM THE EXTERIOR 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 FIRE ALARM.
  - 1 - 53mm (2") DIA. DB2 FOR PORTABLE P/A.
  - 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 1/E0.01 FOR MORE INFORMATION.
- (2) PROVIDE NEW POWER FEEDER FROM SWITCHBOARD 'PP-1' IN THE MAIN ELECTRICAL ROOM FOR THE RELOCATED PORTABLE. PROVIDE 3#1AWG + GND IN 53mm (2") DIA. CONDUIT TERMINATED IN THE PORTABLE PANEL. CONFIRM ON SITE EXACT ROUTING PRIOR TO TENDERING.
- (3) ALL POWER AND SERVICES FEEDERS/CONDUITS TO BE ROUTED TO THE EXTERIOR OF THE MAIN SCHOOL AND ROUTED UNDERGROUND TO THE PORTABLE LOCATION. REFER TO DRAWING E0.01 FOR DUCTBANK REQUIREMENTS. CONTRACTOR TO CONFIRM EXACT ROUTING OF ALL SERVICES FROM THEIR RESPECTIVE PANELS TO THE EXTERIOR PRIOR TO TENDERING.



1 ELECTRICAL SITE PLAN  
E1.00 SCALE: 1:300



Hamilton-Wentworth  
Catholic District School Board



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LICENCED PROFESSIONAL ENGINEER  
JAN. 16, 2025  
J. Z. MANDIC  
100189534  
PROVINCE OF ONTARIO

1	ISSUED FOR PERMIT/TENDER	2025-01-16
NO	REVISIONS	DATE

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ENGINEERING

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IMMACULATE  
CONCEPTION CES  
RELOCATED  
PORTABLE CLASSROOM

470 Kitty Murray Ln, Ancaster, ON L9K 0C3

ELECTRICAL  
SITE 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

SCALE: AS NOTED	PROJECT: 24058
START DATE: JAN 2025	
DRAWN JM	DRAWING: E1.00
CHECKED J.M.	
PRINT DATE	01/16/25