

WORKSHOP

Addendum 01

Project: CSV L'Harmonie Child Care Addition **Date:** 07 November 2024
158 Bridgeport St E, Waterloo, ON **Pages incl. cover:** 16
Tender No.: 25-28

The following changes, additions, deletions and clarifications are hereby made an integral part of the documents, including the drawings and specifications for the above project.

Item	Description
1.01	Refer to the attached: Electrical Addendum E-01 (4 pages attached) prepared by Mantecon Partners, dated November 6, 2024. Civil Addendum C-01 (2 pages attached) prepared by Mantecon Partners, dated November 6, 2024. Mechanical Addendum M-01 (3 pages attached) prepared by Mantecon Partners, dated November 6, 2024. Architectural drawings: A0.1, A1.0, A1.1, A3.0, A6.1 (5 pages attached).
1.02	Clarification: For additional clarity, within project technical specifications any and all reference to testing & inspections "by Owner" shall be understood to be carried out by a 3 rd party testing and inspection agency acceptable to the Owner and paid for from the Cash Allowance value identified within the Bid Form. Testing/Inspections by Contractor, if any, shall be included within the Bid Price.
1.03	Clarification: The 1.8m wood fence has been added to the architectural site plan 1/A1.0 to match Landscape drawings.
1.04	Clarification: Details of the RTU screen have been deleted from sheet A3.0. Metal RTU screen has been deleted.
1.05	Addition: Refer to 1/A1.1, 10/A3.0, and S10 on A0.1 for revised window demolition and replacement scope.
1.06	Question: Can architect confirm control panels (COP) are not a millwork/finished carpentry item? Answer: See added detail 8/A6.1. Classroom control panels are to be supplied and installed by the Electrical contractor.
1.07	Question: Can architect confirm there are no solid surface countertops on this project? Answer: Refer to details on A6.0 and A6.1. As indicated, countertops are PLAM and SS.
1.08	Question: Can architect confirm above MDF and (FR) MDF are not applicable on this project? Answer: Confirmed.
1.09	Question: Can architect provide a colour schedule or basis of design colour for the plastic laminate, as there are substantial price variations between manufacturers with laminate range from \$50.00 to \$400.00/sht? Answer: Specification Section 06 20 00 2.1.4.2. The colour will be a solid colour (i.e. not a texture) and flat finish (i.e. no three dimensional texture) selected from the manufacturer's standard range.
1.10	Question: Confirm P.Lam tops have a standard particleboard core with a balancing backer sheet? Answer: Laminated Plastic Countertops to have a exterior grade hardwood plywood core with non-telegraphic grain with type II adhesive meeting the requirements of AWMAC's Standards (NAAWS).
1.11	Question: Can architect clarify what wood is to be used, i.e. MDF, pine, poplar, birch for exposed painted wood window surrounds/exposed blocking? and confirm these will be painted by the painting section on site? Answer: Window trim to be solid wood – paint-grade poplar. General Contractor to determine which subtrade does the painting. Site-painting is acceptable.

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1.12	<p>Question: Can architect clarify core construction for millwork?</p> <p>Answer: Cabinet doors/drawers are to be wood veneer and 3mm solid edging on Veneer core plywood (hardwood with non-telegraphing grains manufacturer with exterior glue meeting requirements of AWMAC's Standards (NAAWS).</p>						
1.13	<p>Question: Can architect confirm that Servery cabinets are a P.Lam construction on a standard particleboard core with matching P.Lam edges?</p> <p>Answer: Cabinet doors/drawers are to be PLAM and PLAM edges on Veneer core plywood (hardwood with an non-telegraphing grains manufacturer with exterior glue meeting requirements of AWMAC's Standards (NAAWS).</p>						
1.14	<p>Question: Can architect provide a dimensioned section cut thru SS Shroud and backsplash panel?</p> <p>Answer: Shroud to match dimensions of the fire-suppression/exhaust hood and to be coordination during the shop drawing phase. Assume minimum 55" wide x 48" deep (plan dimensions).</p>						
1.15	<p>Question: Please confirm that the following items are not in contract (NIC) and will be supplied and installed by others:</p> <ul style="list-style-type: none"> a. Stacked washer/dryer in room 152 (note 19 on drawing A2.1) b. Appliances (details 7 & 8 on drawing A3.3) <p>Answer: Appliance supply/install to be as follows:</p> <table border="0"> <tr> <td>Stacked washer/dryer</td><td>Owner supplied, Contractor installed</td></tr> <tr> <td>Oven, microwaves, fridges</td><td>Owner supplied, Contractor installed</td></tr> <tr> <td>Dishwasher</td><td>Contractor to relocate from Servery 129 in the existing school</td></tr> </table>	Stacked washer/dryer	Owner supplied, Contractor installed	Oven, microwaves, fridges	Owner supplied, Contractor installed	Dishwasher	Contractor to relocate from Servery 129 in the existing school
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Oven, microwaves, fridges	Owner supplied, Contractor installed						
Dishwasher	Contractor to relocate from Servery 129 in the existing school						
1.16	<p>Question: Washroom Accessories Legend –Note W12 – states “Prefabricated change table with integral stairs”. They are located in Preschool WC 145, Toddler WC/Change 140 and Infant WC 148. Please provide specifications/details for these prefabricated change tables.</p> <p>Answer: Refer to Specification Section 10 80 00 – 2.1 – W12</p>						
1.17	<p>Question: Detail 8/A3.0 shows RTU screen elevations. It is not shown on the roof plan, building elevations or structural drawings. Can you please identify where the roof top screen is located.</p> <p>Answer: Metal RTU screen has been deleted. Refer to Item 1.04 above.</p>						
1.18	<p>Question: Please confirm if a bid bond is required as part of the bid submission and what the acceptance period of the tender is. For the online submission please provide a location to upload the agreement to bond.</p> <p>Answer: No, a Bid Bond is not required. This is an RFQ and not a Tender, therefore there is no contract A formed. In terms of Material and Performance & Labour Bonds, the agreement to bond will be collected from the retained vendor, after closing.</p>						

Note that remaining questions will be addressed in a subsequent addendum.

End of Addendum 01

ADDENDUM

E-01

Architect:	Workshop	Date:	November 6, 2024
Project:	CSV L'Harmonie Daycare Addition	Project No.:	22-058

This addendum forms part of the contract documents and amends the original bidding requirements, drawings and specifications noted below.

1 Electrical

1.1 Drawings

- .1 E0.1 Electrical Specifications (Sheet 1 of 2)
 - Updated specifications to include additional security information.
- .2 E0.2 Electrical Specifications (Sheet 2 of 2)
 - Updated specifications to include additional security information.
- .3 E.03 Site Demolition Plan
 - Updated demolition instructions for door intercom stations
 - Updated drawing notes to reflect changes

END OF ADDENDUM E-01

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL	
1. DEFINITIONS: FOLLOWING ARE DEFINITIONS OF WORDS FOUND IN THIS SPECIFICATION AND ON ASSOCIATED DRAWINGS.	
a. "CONCEALED" - HIDDEN FROM NORMAL SIGHT IN FURRED - SPACES, SHAFTS, CEILING SPACES, WALLS, UNDERFLOOR, AND PARTITIONS.	
b. "EXPOSED" - ALL ELECTRICAL WORK VISIBLE TO BUILDING OCCUPANTS.	
c. "PROVIDE" - (AND ALL TENSES OF "PROVIDE") SUPPLY, INSTALL, WIRE AND CONNECT COMPLETE.	
d. "INSTALL" - (AND ALL TENSES OF "INSTALL") - INSTALL, WIRE AND CONNECT COMPLETE, PRODUCTS AND SERVICES SPECIFIED.	
e. "SUPPLY" - SUPPLY ONLY.	
f. "FINISHED AREA" - ANY AREA OR PART OF AN AREA WHICH RECEIVES A FINISH SUCH AS PAINT, OR A FACTORY FINISH.	
g. "GOVERNING AUTHORITY" AND/OR "REGULATORY AUTHORITY" AND/OR "MUNICIPAL AUTHORITY" - ALL GOVERNMENT DEPARTMENTS, AGENCIES, STANDARDS, RULES AND REGULATIONS THAT APPLY TO AND GOVERN THE ELECTRICAL WORK AND TO WHICH THE WORK MUST ADHERE.	
h. "OR APPROVED EQUAL" - MATERIAL, OR EQUIPMENT PROPOSED BY CONTRACTOR, IN LIEU OF THAT SPECIFIED, AS APPROVED BY CONSULTANT.	
i. "AS INDICATED" - AS SHOWN ON DRAWINGS AND/OR NOTED IN SPECIFICATIONS.	
j. "CONSULTANT" - ARCHITECT OR CONSULTING ENGINEER WHO HAS PREPARED THE CONTRACT DOCUMENTS ON BEHALF OF THE OWNER.	
2. PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ONTARIO ELECTRICAL SAFETY CODE, THE ONTARIO BUILDING CODE, APPLICABLE CSA AND UL/C STANDARDS, THE REQUIREMENTS OF THE ELECTRICAL SAFETY AUTHORITY AND ALL OTHER APPLICABLE MUNICIPAL AND PROVINCIAL CODES AND REGULATIONS. ANY MATERIALS, EQUIPMENT OR INSTALLATIONS NOT MEETING ALL REQUIREMENTS OF THE APPROPRIATE REGULATORY AGENCIES WILL NOT BE ACCEPTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE REQUIREMENTS ARE MET AND PROVIDE EVIDENCE OF SUCH AS REQUESTED.	
3. CAREFULLY EXAMINE THE SITE AND TENDER DOCUMENTS FOR THE WORK IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS, VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH EXISTING ARCHITECTURAL, STRUCTURAL AND MECHANICAL CONDITIONS, THE LOCATION OF EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS, AND OTHER FACTORS RELATED TO THE WORK TO BE DONE. NO EXTRA CHARGES WILL BE CONSIDERED FOR ANYTHING WHICH COULD HAVE BEEN REVEALED IN THE COURSE OF SUCH EXAMINATIONS.	
4. THE ELECTRICAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL WORK BEARING UPON THE ELECTRICAL TRADE. PLAN WORK WELL IN ADVANCE TO ELIMINATE DELIVERY AND INSTALLATION DIFFICULTIES. CO-ORDINATE WORK WITH OTHER TRADES TO PREVENT CONFLICTS ON SITE AND RESOLVE INTERFERENCES. PROVIDE WORK IN STAGES AND AT TIMES REQUIRED BY THE PROJECT SCHEDULE.	
5. ALL ELECTRICAL WORK SHALL BE COMPLETED TO BUILDING OWNER REQUIREMENTS AND BUILDING STANDARDS IN ACCORDANCE WITH THE RELEVANT BUILDING SECTIONS, ARTICLES AND DETAILS OF THE BASE BUILDING SPECIFICATIONS AND DRAWINGS.	
6. OBTAIN AND PAY FOR PERMITS REQUIRED BY THE ELECTRICAL SAFETY AUTHORITY (ESA) AND LOCAL INSPECTION AUTHORITIES FOR THIS WORK. PRESENT FINAL CERTIFICATES TO CONSULTANT AND OWNER.	
7. ALL WORK SHALL BE PROVIDED BY QUALIFIED JOURNEYMAN ELECTRICIANS OR APPRENTICES HOLDING VALID ONTARIO CERTIFICATES OF QUALIFICATION AND BE SUPERVISED BY A COMPETENT FOREMAN.	
8. PRIOR TO THE CONSULTANT RELEASING THEIR COMPLIANCE LETTER THE WORK MUST BE COMPLETED AND SAFE. THE FOLLOWING DOCUMENTATION MUST BE SUBMITTED WITH NO DEFICIENCIES.	
a. ESA INSPECTION CERTIFICATE	
b. FIRE ALARM VERIFICATION REPORT (WITHOUT EXCEPTIONS)	
c. FIRE ALARM AUDIBILITY REPORT (WITHOUT EXCEPTIONS)	
d. EMERGENCY LIGHTING TEST REPORT	
9. CARRY OUT ALL WORK IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY CODE (OESC) REGULATIONS INCLUDING BULLETINS, AND ELECTRICAL SAFETY AUTHORITY INSPECTION REQUIREMENTS.	
10. PAY ALL FEDERAL AND PROVINCIAL SALES TAXES APPLICABLE.	
11. ALL EQUIPMENT SHALL BE NEW AND CSA (OR EQUIVALENT PER OESC) APPROVED UNLESS OTHERWISE NOTED.	
12. MATERIALS SUPPLIED SHALL CONFORM TO MINIMUM PUBLISHED REQUIREMENTS AND RECOMMENDATIONS, OR BETTER, OF APPLICABLE STANDARDS OF:	
• CSA - CANADIAN STANDARDS ASSOCIATION	
• IEMA - ELECTRICAL AND ELECTRONIC MANUFACTURERS' ASSOCIATION OF CANADA	
• NEMA - NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION	
• UL - UNDERWRITERS LABORATORIES OF CANADA LTD.	
• OESC - ONTARIO ELECTRICAL SAFETY CODE	
• ESA - ELECTRICAL SAFETY AUTHORITY	
• OBC - ONTARIO BUILDING CODE	
13. DRAWINGS WHICH ACCOMPANY THESE SPECIFICATIONS ARE DIAGRAMMATIC AND SHOW THE REQUIRED DISTRIBUTION, NUMBER AND LOCATIONS OF THE ELECTRICAL EQUIPMENT, FIXTURES AND OUTLETS, AND INDICATE SUGGESTED CIRCUITING, DO NOT SCALE DRAWINGS BUT USE ONLY DIMENSIONS WHICH ARE SHOWN, WHERE EXACT BUILDING DIMENSIONS AND DETAILS ARE REQUIRED, USE ONLY DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS OR JOB SITE DIMENSIONS.	
14. KEEP A COMPLETE AND SEPARATE SET OF PRINTS ON SITE AT ALL TIMES AND NOTE THEREON CLEARLY, NEATLY, ACCURATELY AND PROMPTLY ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL CHANGES, REVISIONS AND ADDITIONS TO THE WORK AND DEVIATIONS FROM THE CONTRACT DOCUMENTS. ACCURATE LOCATIONS, DEPTH, SIZE AND TYPE OF UNDERGROUND UTILITIES SHALL BE INCLUDED IN THESE RECORD DRAWINGS, INDICATE ALSO ON THE RECORD DRAWINGS THE LOCATION OF ACCESS PANELS OR REMOVABLE CEILING TILES WHICH COVER EQUIPMENT OR JUNCTION BOXES WHICH MAY REQUIRE FUTURE ACCESS OR WHERE CONDUIT OR WIRING FOR FUTURE USE IS LOCATED. THE FINAL AS-BUILT DRAWINGS SHALL BE SUBMITTED AT THE COMPLETION OF THE PROJECT WITH AN APPLICATION FOR A CERTIFICATE OF TOTAL PERFORMANCE. INDICATE IN RED INK ON AS-BUILT DRAWINGS ALL DEVIATIONS AND APPROVED CHANGES FROM THE CONTRACT DRAWINGS.	
15. SUBMIT FOR REVIEW A SINGLE (1) SET OF SHOP DRAWINGS AND DATA SHEETS IN EITHER .PDF OR HARD COPY FORMAT COVERING ALL ITEMS OR EQUIPMENT TO BE INSTALLED UNDER THE CONTRACT. SHOP DRAWINGS SHALL SHOW ALL RELEVANT PERFORMANCE AND INSTALLATION INFORMATION. EQUIPMENT WILL NOT BE ACCEPTED ON SITE UNTIL REVIEW OF SHOP DRAWINGS IS COMPLETE. SUBMIT SHOP DRAWINGS FOR LIGHTING FIXTURES, EXIST LIGHTS, EMERGENCY LIGHTS AND BATTERY UNITS, DISCONNECT SWITCHES, STARTERS, TRANSFORMERS, NEW PACE-TRIP, ALARM, VOICE/DATA WIRING, AND OTHER SYSTEMS SPECIFIED IN THIS PROJECT TO CONSULTANT FOR REVIEW.	
16. ARCHITECTURAL SPECIFICATIONS AND DRAWINGS SHALL BE REVIEWED IN CONJUNCTION WITH THESE DRAWINGS AS THEY ARE PART OF THIS WORK.	
17. COORDINATE WITH ALL TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHER APPARATUS, DUCTS, PIPES, ETC., AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISHES.	
18. IN GENERAL, ALL NECESSARY CUTTING AND PATCHING FOR THE ELECTRICAL WORK SHALL BE PROVIDED BY THE APPROPRIATE TRADE AT THE EXPENSE OF THE CONTRACTOR UNLESS INDICATED OTHERWISE ON THE DRAWINGS. HOLES THROUGH EXTERIOR WALLS AND ROOF ARE TO BE PROPERLY FLASHED AND MADE WEATHERPROOF. REPAIR ANY DAMAGE CAUSED BY THE ELECTRICAL TRADE TO EXISTING BUILDINGS OR EQUIPMENT, ETC., TO THE OWNER'S SATISFACTION. IN GENERAL, PAINTING OF ELECTRICAL WORK AND PATCHES AS REQUIRED WILL BE PROVIDED BY THE ELECTRICAL TRADE.	
19. PROVIDE ALL EXCAVATION, TRENCHING, BACKFILLING, COMPACTION AND CONCRETE REQUIRED FOR THE ELECTRICAL WORK UNLESS OTHERWISE INDICATED. ALL EXCAVATIONS SHALL BE BACKFILLED WITH CLEAN MATERIALS (SAND TO 100 mm [4"] COVER ALL AROUND FOR DIRECT BURIED CONDUIT OR CABLES) AND BE WORKER COMPENSATED TO A MINIMUM OF 100% PROCTOR UNLESS INDICATED OTHERWISE. ALL CONCRETE SHALL BE FORMED IN PLACE, BE RATED MINIMUM 25 MPa AND BE PROVIDED AS A CONTINUOUS POUR. PROVIDE STEEL REINFORCEMENT WHERE INDICATED. CONCRETE ENCASED DUCTS SHALL BE PROVIDED WITH A MINIMUM 75 mm (3") CONCRETE ENVELOPE. RESTORE TO ORIGINAL CONDITION ALL SURFACES, LANDSCAPING, ETC. DISTURBED BY EXCAVATION WORK.	
20. MATERIALS REMOVED AND NOT REUSED WILL BECOME OWNERS PROPERTY, AND SHALL BE DISPOSED OF FROM THE SITE PRIOR TO COMPLETION OF WORK AS DIRECTED BY OWNER.	
21. THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DURING CONSTRUCTION AND ON COMPLETION OF CONTRACT. REMOVE ALL ELECTRICAL DEBRIS FROM THE SITE.	
22. PROVIDE LEGIBLE SIGNS AND BARRIERS ON OR AROUND ALL LIVE PANELS AND EQUIPMENT DURING CONSTRUCTION TO PREVENT INJURY OR SHOCK.	
23. TEST ALL EQUIPMENT AND WIRING AT ANY TIME REQUESTED BY THE OWNER AS PART OF THE CONTRACT. PROVIDE ALL METERS, MATERIALS AND LABOUR REQUIRED TO CARRY OUT THIS WORK. PRIOR TO CONNECTION OF ADDITIONAL LOADS TO EXISTING SOURCES, ENSURE THROUGH LOAD MEASUREMENT AND MONITORING THAT THE REQUIRED EXCESS CAPACITY IS AVAILABLE.	
24. UPON COMPLETION OF THE ELECTRICAL INSTALLATIONS, TRIAL OPERATE ALL EQUIPMENT, SYSTEMS AND DEVICES TO ENSURE CORRECT FUNCTIONING. FOLLOWING SATISFACTORY TRIAL OPERATION, INSTRUCT THE OWNER'S REPRESENTATIVE REGARDING OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT INSTALLED.	
25. PERFORM ALL WORK IN SUCH A MANNER AS TO CAUSE AS LITTLE DISTURBANCE OR INCONVENIENCE AS POSSIBLE TO THE EXISTING OPERATIONS. WHERE DEEMED NECESSARY BY THE OWNER OR CONSULTANT, PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN SPECIFIC SERVICES AND/OR PROVIDE WORK OUTSIDE REGULAR HOURS AT NO ADDITIONAL COST. DO NOT INTERRUPT ANY ELECTRICAL SERVICES WITHOUT PRIOR AUTHORIZATION.	
26. PROVIDE ALL SLEEVES, INSERTS, HANGERS AND CORE DRILLING OF SB REQUIRED FOR THE ELECTRICAL WORK. TREAT ALL SLEEVES OR HOLES PERFORMING ACOUSTICAL SEPARATIONS FOR	

ELECTRICAL SPECIFICATIONS

INSTALLATIONS OF THIS DIVISION TO MAINTAIN ACOUSTICAL RATING. ALL GAPS SHALL BE PACKED WITH ACOUSTICAL INSULATION AND SEALED AT BOTH ENDS WITH ACOUSTICAL CAULKING. PATCH ALL OPENINGS AROUND INSTALLATIONS OF THIS DIVISION PIERCING FIRE OR SMOKE SEPARATIONS WITH AN APPROVED WATERIGHT SMOKE AND FIRE STOP SEALANT.	
27. PROVIDE ALL ACCESS DOORS REQUIRED FOR THE ELECTRICAL INSTALLATIONS. ACCESS DOOR SIZE, TYPE AND FIRE RATING SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS AND CONDITIONS.	
28. GENERALLY, MOUNT EQUIPMENT AS CLOSE AS PRACTICAL TO THE LOCATION SHOWN ON THE DRAWINGS TAKING INTO CONSIDERATION SITE CONDITIONS. ENSURE ALL EQUIPMENT IS LOCATED IN A MANNER ALLOWING EASY ACCESS FOR MAINTENANCE, REPAIR OR ADJUSTMENT. CONFIRM ALL ARCHITECTURAL CONDITIONS SUCH AS GLAZING, DOOR SWINGS, FURNITURE AND EQUIPMENT TYPES AND LAYOUTS, ETC., ON SITE PRIOR TO INSTALLING ANY RELATED ITEM OR WIRING.	
29. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION FOR EACH SPACE. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM CONSISTING OF ALL CONTROL DEVICES, WIRING, CONNECTIONS, ETC., AS REQUIRED.	
30. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY FIXTURE, OUTLET, DEVICE, EQUIPMENT, ETC., UP TO 3 m (10') PRIOR TO INSTALLATION WITHOUT INCURRING ANY EXTRA COST. CONFIRM LOCATIONS, MOUNTING HEIGHT AND ARRANGEMENT OF ALL OUTLETS ON SITE PRIOR TO INSTALLATION.	
31. PROVIDE SPRINKLER-PROOF HOODS AND DOORS FOR ELECTRICAL EQUIPMENT INSTALLED IN SPRINKLERED AREAS.	
32. ARRANGE WITH ALL COMMUNICATIONS SERVICE PROVIDER FOR INSTALLATION OF NEW PHONE/INTERNET/CATV WIRING AND RACEWAYS AS REQUIRED. RACEWAYS SHALL BE EMT IN WALLS AND CEILING SPACES; PVC BELOW FLOOR SLABS ON GRADE.	
33. IF ASBESTOS MATERIAL IS ENCOUNTERED, STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND NOTIFY THE CONSULTANT AND OWNER.	
34. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. CONSULTANT WILL PROVIDE WRITTEN GUARANTEE.	
35. OWNER RESERVES RIGHT TO TRIAL AND/OR TEMPORARY USAGE PRIOR TO ACCEPTING INSTALLATION.	
36. ON COMPLETION OF PROJECT AND BEFORE FINAL PAYMENT, SUBMIT:	
a. exact (1) SET OF PDPS AS-BUILT DRAWINGS WITH ALL CHANGES AND BURRED SERVICES EXACT LOCATIONS NOTED THEREON. PLOT USING THE CONSULTANT CTR FILE. DRAWING SHOULD HAVE THE ELECTRICAL CONTRACTORS LOGO AND CONTACT INFORMATION, ISSUED FOR AS-BUILT WITH THE CURRENT DATE.	
b. SUBMIT THREE (3) COPIES (BOTH ELECTRONIC (.CD) AND HARD COPIES) OF MAINTENANCE DATA AND OPERATING INSTRUCTIONS IN A HARD-BACK, 3 RING BINDER, EACH OF WHICH IS TO INCLUDE:	
• 1 COPY OF EACH SHOP DRAWING (REVISED AS PER THE REVIEWED DRAWINGS).	
• 1 COPY OF EQUIPMENT PART LIST.	
• 1 COPY OF RECOMMENDED LIST OF SPARE PARTS.	
• 1 COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS.	
• 1 COPY OF EQUIPMENT INSTALLATION DETAILS, CONSTRUCTION AND PERFORMANCE DATA.	
• 1 LIST OF ALL MANUFACTURING AND EQUIPMENT SERVICE DEPOTS INCLUDING TELEPHONE NUMBERS.	
• 1 COPY OF THE ELECTRICAL SAFETY AUTHORITY FINAL INSPECTION CERTIFICATE.	
• 1 COPY OF THE EMERGENCY LIGHTING TEST RESULTS	
• 1 COPY OF THE FIRE ALARM VERIFICATION CERTIFICATE	
• 1 COPY OF ANY OTHER CERTIFICATES, APPROVAL LETTERS, ETC.	
38. WIRING AND CONDUIT SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE APPROVED.	
39. SUPPLY, INSTALL, WIRE AND CONNECT ALL EQUIPMENT SHOWN, SPECIFIED OR MENTIONED.	
39. ARRANGE WITH SUPPLY AUTHORITY FOR INCOMING SERVICE AND PAY ALL SUPPLY AUTHORITY CHARGES.	
40. PROVIDE WIREGUARD ON DEVICES WHERE INDICATED.	
SECURITY AND ACCESS CONTROL SYSTEMS	
REFERENCE STANDARD:	
41. CANULC-5302 - [LATEST EDITION] - STANDARD FOR INSTALLATION AND CLASSIFICATION OF BURGLAR ALARM SYSTEMS FOR RESIDENTIAL AND COMMERCIAL PREMISES, SALES AND VAULTS	
42. CANULC-5303, LOCAL BURGLAR ALARM UNITS AND SYSTEMS	
43. CANULC-5304, INTRUSION DETECTION	
44. CANULC-5306, INTRUSION DETECTION UNITS	
45. CANULC-5304 - [LATEST EDITION], SIGNAL RECEIVING CENTRE AND PREMISE BURGLAR ALARM CONTROL UNITS	
46. CANULC-53 - 1 - [LATEST EDITION] STANDARD FOR CENTRAL AND MONITORING STATION BURGLAR ALARM SYSTEM	
47. ORD - C434, CONNECTORS AND SWITCHES FOR USE WITH BURGLAR ALARM SYSTEMS, 1074 - [LATEST EDITION], STANDARD FOR SAFETY FOR PROPRIETARY BURGLAR ALARM UNITS AND SYSTEMS	
48. UL-C-5318, POWER SUPPLIES FOR BURGLAR ALARM SYSTEMS CANULC-5324 - [LATEST EDITION] - INSTALLATION OF FIRE ALARM SYSTEMS	
49. CANULC-5359 - [LATEST EDITION] - EQUIPMENT FOR FIRE SIGNAL RECEIVING CENTERS AND SYSTEMS	
50. CANULC-5341 - [LATEST EDITION] - INSTALLATION AND SERVICES FOR FIRE RECEIVING CENTERS AND SYSTEMS.	
51. UL294 - [LATEST EDITION] STANDARD FOR SAFETY FOR ACCESS CONTROL SYSTEMS.	
COORDINATION:	
THE COST FOR THIS SUB-TRADE TO SUPPLY AND INSTALL THIS SYSTEM WILL BE CARRIED BY THE ELECTRICAL SUB-CONTRACTOR. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL RACEWAYS AS NOTED ON THE DRAWINGS AND WITHIN THESE DOCUMENTS.	
THE FOLLOWING SPECIFICATIONS ARE PROVIDED AS A GUIDELINE FOR THE ELECTRICAL CONTRACTOR TO UNDERSTAND THE WORK IS THIS SUB-TRADE.	
54. THE ELECTRICAL CONTRACTOR IS TO INCLUDE IN THE TENDER ALL COSTS REQUIRED TO CO-ORDINATE AS SHOWN ON THIS SUB-TRADE.	
SCOPE:	
55. THE CONTRACTOR SHALL INSTALL AND PROVIDE ALL LABOUR, MATERIAL, EQUIPMENT, NECESSARY TO IMPLEMENT A PROPRIETARY INTRUSION ALARM AND ACCESS CONTROL SYSTEM AS DESCRIBED IN THE FOLLOWING SPECIFICATION, AS WELL AS CALL OUTS FOR BREAKERS, CONTROL, TRANSFORMERS, TERMINALS, SWITCHES, ETC., REQUIRED FOR CONTROL AND CONNECTION.	
56. DETECTION OF AN ALARM FROM MOTION DETECTORS, OR ALARM OPERATION OF FIRE ALARM SYSTEM, SHALL BE ZONE ANNUNCIATED IN THE CONTROL PANEL AND INITIATE A PROGRAMMED SIGNAL TO BE TRANSMITTED TO A CENTRAL STATION (OR THE OWNER'S SPECIFICATION) OVER A BELL CANADA TELEPHONE SYSTEM.	
57. ALL WIRINGS SHALL BE INSTALLED IN CONDUIT PROVIDED.	
OPERATIONS:	
58. FOR CO-ORDINATION INFORMATION ONLY, ONE BIDDING SECURITY SUB-CONTRACTOR IS:	
ARCHIE GALANG	
CHUBB FIRE & SECURITY 410 LEWIS ROAD UNIT #18	
STONEY CREEK, ONTARIO, L6E 5P7 DUTY: 519-580-0917	
ARCHIE.GALANG@CHUBBSFS.COM	
59. OTHER CHUBB CERTIFIED CONTRACTORS ARE INVITED TO BID WITH THE UNDERSTANDING THAT THE FOLLOWING INFORMATION MUST BE SUBMITTED TO THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE FOR CONSIDERATION.	
• CONFIRMATION THAT THE CONTRACTOR HAS BEEN IN BUSINESS AT LEAST 5 YEARS PROVIDING INSTALLATION AND TESTING OF SIMILAR SERVICES.	
• A MINIMUM OF FIVE REFERENCES FOR WHOM YOU HAVE PROVIDED SERVICES.	
• CONFIRMATION OF GENERAL AND FAILURE TO PERFORM LIABILITY INSURANCE WITH A MINIMUM \$5,000,000.00 COVERAGE.	
• CONFIRMATION OF VALID WORKERS COMPENSATION COVERAGE.	
60. NOTE: ALL BIDDING SECURITY SUB-CONTRACTORS MUST BE CHUBB REPR OR CHUBB CERTIFIED INSTALLER.	
MANUFACTURER:	
61. PROVIDE INTEGRATED CONTROL TECHNOLOGY PROTEGE GX.	
SYSTEM DESCRIPTION:	
62. PROVIDE A COMPLETE AND OPERATING INTRUSION DETECTION AND ACCESS CONTROL SYSTEM. THE SYSTEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND WIRING TO ACCOMPLISH FUNCTIONS SPECIFIED, COMPLETE IN EVERY DETAIL. THE SYSTEM SUPPLIER WILL BE RETAINED TO SUPERVISE THE INSTALLATION, MAKE FINAL CONNECTIONS AND TEST.	
63. DETECTION OF AN ALARM FROM MOTION DETECTORS, ALARM OPERATION OF FIRE ALARM SYSTEM, DETECTION OF LOW TEMPERATURE BY THERMOSTATS OR DETECTION OF A POWER FAILURE SHALL BE ZONE ANNUNCIATED IN THE CONTROL PANEL AND INITIATE A PROGRAMMED SIGNAL TO BE TRANSMITTED TO A UL/C APPROVED MONITORING STATION WITH COMPLETE BILINGUAL CAPABILITIES OVER A BELL CANADA TELEPHONE SYSTEM.	
64. THE SYSTEM SHALL BE CAPABLE OF MANUALLY ARMING AND DISARMING BY:	
• ALARM CONTROL KEY PAD	
65. THE SYSTEM SHALL ACCEPT ALARM AND TROUBLE SIGNALS FROM:	
• THE MECHANICAL BUILDING AUTOMATION SYSTEM	
• FIRE ALARM	
• HYDRO POWER FAILURE.	
66. THIS SYSTEM MUST BE FULLY INTEGRATED WITH THE ACCESS CONTROL SYSTEM.	
67. THE ACCESS CONTROL SYSTEM CONSISTS OF FIELD DEVICES INCLUDING, BUT NOT LIMITED TO:	

ELECTRICAL SPECIFICATIONS

KEY FOBS	
• CARD READERS	
• DOOR CONTROLLERS	
• ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, LATCHES AND LOCKS	
• POWER TRANSFER AND CONCEALED HINGES/SWITCHES WITH ANCILLARY CONNECTIONS TO:	
1. INTERCOM STATIONS FOR DOOR RELEASE	
CONTROL, AND TERMINATION EQUIPMENT INCLUDING, BUT NOT LIMITED TO:	
1. ACCESS CONTROL SYSTEM SERVER	
2. POWER SUPPLIES	
3. BATTERIES	
4. UNINTERRUPTABLE POWER SUPPLIES (UPS)	
68. ALL SYSTEM DEVICES / DOORS CONNECT TO CENTRALLY LOCATED DOOR CONTROL PANELS AT THIS SCHOOL LOCATION, CONNECTIVITY FROM DOOR CONTROL PANELS TO THE SYSTEM SERVER FRONT END IS BASED ON CONNECT/IF BASED PROTOCOLS OVER THE CONSEL SCOLARE VIAMONDE NETWORK.	
PART 2 - PRODUCTS	
IDENTIFICATION FOR ELECTRICAL SYSTEMS	
1. PROVIDE LAMA/COD LABELS (3-PLY WHITE LETTERED ON BLACK BACKGROUND- 1/4" HIGH LETTERING ON ALL ELECTRICAL EQUIPMENT, MOUNTED AND/OR CONNECTED BY THIS CONTRACTOR.	
WIRE AND CABLE	
3. ALL WIRING SHALL BE COLOUR CODED AS PER OESC AND BE IDENTIFIED WITH BRADY OR EQUIVALENT SELF-STICKING PERMA-CODE WIRE MARKERS.	
IN GENERAL, ALL WIRING SHALL BE TYPE R90 XLPE INSTALLED IN CONDUIT OR RACEWAYS UNLESS OTHERWISE SPECIFIED. USE ONLY COPPER CONDUCTORS, MINIMUM SIZE NO. 12, SIZED AND COLOUR CODED ACCORDING TO THE ELECTRICAL SAFETY CODE WHERE NOT INDICATED.	
5. SIZE ALL WIRING FOR A MAXIMUM OF 3% VOLTAGE DROP IN A FEEDER OR BRANCH CIRCUIT, AND 5% VOLTAGE DROP FROM THE SUPPLY SIDE OF THE CONSUMER SERVICE TO THE POINT OF UTILIZATION.	
6. TPO NYLON MAY BE USED IN LIEU OF R90 FOR INTERIOR INSTALLATIONS UP TO SIZE #10, HOWEVER, CONDUIT FILL SHALL BE BASED ON R90 RATING.	
7. THE USE OF FLEXIBLE CABLE (TYPE AC90 ONLY) IS TO BE RESTRICTED TO INTERIOR PARTITION WALLS, ACCESSIBLE CEILING SPACES AND FINAL CONNECTIONS TO LIGHT FIXTURES. THE FLEXIBLE CABLE SHALL BE RESTRICTED TO 3600 mm (12') IN LENGTH AND BE SUITABLY CLIPPED AND SUPPORTED EVERY 900 mm (3').	
8. ALL 120 V (SINGLE PHASE) BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. PERMIT CONNECT NEUTRAL CONDUCTORS AT ALL DEVICES. JOIN ALL CONDUCTORS USING APPROVED SOLDERLESS WING NUT PRESSURE CONNECTORS.	
9. ALL WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, ALL REGULATORY REQUIREMENTS AND SHALL SATISFY ALL APPLICABLE CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND REPLACE AS REQUIRED ANY EXISTING WIRING BEING RE-USED.	
10. FEEDERS AND BRANCH CIRCUITS RATED 100 AMPERES OR GREATER SHALL BE CHECKED WITH A 1000 V MEGOHM FOR 15 SECONDS BEFORE ENERGIZATION.	
11. WIRE AND CONNECT MOTORS, SUPPLIED BY OTHERS, AS INDICATED.	
12. BX (AC-90) CABLE IS ONLY PERMITTED TO LIGHT FIXTURES WITH A MAXIMUM LENGTH OF 1500mm.	
13. PROVIDE VFD CERTIFIED CABLES ON THE LOAD SIDE OF VFDs TO MOTOR TERMINAL CONNECTIONS. COORDINATE WITH EQUIPMENT AND CABLE SUPPLIER RECOMMENDATIONS TO MATCH MOTOR LOAD REQUIREMENTS.	
DISCONNECT SWITCHES	
14. FUSED AND NON-FUSED, HEAVY DUTY, VISIBLE BLADES IN THE OFF POSITION, QUICK-MAKE, QUICK-BREAK MECHANISM, LOAD BREAK TYPE WITH DOOR/HANDLE SWITCHING MECHANISM INTERLOCK WITH OVERRIDE, LOCK-OFF PROVISION, ARC EXTINGUISHERS, SILVER PLATED WIRE ACTION CONTACTS, AND SPRING REINFORCED FUSE CLIPS, OF SIZES INDICATED, CSA CERTIFIED. PROVIDE DISCONNECT SWITCHES AHEAD OF EACH PLACE OF EQUIPMENT WHERE NECESSARY TO MEET CODE REQUIREMENTS.	
15. FUSIBLE SWITCH UNITS INSTALLED IN EXISTING SWITCHBOARD EXTENSION SHALL HAVE QUICK MAKE-QUICK BREAK MECHANISM WITH PROVISIONS FOR LOCKING IN THE OPEN OR CLOSED POSITION, AND DOOR/HANDLE/SWITCHING MECHANISM INTERLOCK WITH OVERRIDE. ALL FUSIBLE UNITS SHALL BE MODULAR TYPE EQUIPPED FOR HRC FUSES AND INCLUDE AUXILIARY CONTACTS OR OTHER SPECIAL FEATURES AS NOTED ON THE DRAWINGS.	
16. SWITCH FUSE HOLDERS SHALL HAVE REINFORCED CLIPS. FUSES SHALL BE EASILY REMOVABLE WHEN THE SWITCH IS IN THE OFF POSITION.	
17. ALL SWITCHES SHALL HAVE AMPLE GUTTER SPACE FOR TOP OR BOTTOM WIRING AND BE PROVIDED WITH ENCLOSURES TO SUIT THE SPECIFIC APPLICATION.	
MOTOR STARTERS, CONTACTORS AND RELAYS	
18. PROVIDE MANUAL AND MAGNETIC MOTOR STARTERS FOR MOTORS AND EQUIPMENT AS INDICATED. STARTERS SHALL INCLUDE MANUAL RESET, ADJUSTABLE THERMAL OVERLOAD UNITS WITH INTEGRAL SINGLE PHASE PROTECTION AND BE COMPLETE WITH INTERLOCKS, AUXILIARY RELAYS, CONTROL, TRANSFORMERS, TERMINALS, ETC., REQUIRED FOR PROPER OPERATION. REFER TO THE DRAWINGS FOR FURTHER DETAILS OF MECHANICAL EQUIPMENT CONTROL AND WIRING REQUIREMENTS.	
19. PROVIDE AC CONTROL RELAYS AND CONTACTORS WITH REQUIRED COIL AND CONTACT RATING AND PILOT LIGHT FOR CONTROL OF EQUIPMENT AND MISCELLANEOUS LOADS AS SHOWN ON THE DRAWINGS. PROVIDE AUXILIARY RELAYS, CONTROL, TRANSFORMERS, SWITCHES, ETC., REQUIRED FOR CONTROL AND CONNECTION.	
FUSES	
20. PROVIDE 600V 200,000 RMS SYMMETRICAL INTERRUPTING RATING, HRCI TYPE I (600A OR LESS) AND HRCI TYPE L (OVER 600A), FOR MOTOR PROTECTION: TIME DELAY 200,000 RMS SYMMETRICAL RATING, HRCI TYPE I TIME DELAY (600A OR LESS) AND HRCI TYPE L TIME DELAY (OVER 600A).	
21. PROVIDE FUSE SIZE AND TYPE COMPATIBLE WITH VFD MANUFACTURER REQUIREMENTS.	
PANELBOARDS	
22. PANELS SHALL BE OF THE TYPE WITH VOLTAGE AND CURRENT RATING AS SHOWN ON THE DRAWINGS. USED TO ACCOMMODATE BREAKER AND CIRCUIT BREAKERS AND SPACES AS INDICATED. BUS BRACING SHALL BE PROVIDED TO SUIT THE SHORT CIRCUIT CAPACITY RATING INDICATED ON THE DRAWINGS OR MINIMUM 10 kA IN AT 208 V, 3 PHASE, RESTRICTIVE DISCONNECT SHALL BE AS SHOWN. PROVIDE LOCKING DOORS FOR ALL PANELS. ALL PANEL DOORS, TRIM AND SURFACE MOUNT TUBS SHALL BE FINISHED IN LIGHT GRAY ENAMEL PAINT. TUBS FOR FLUSH MOUNT PANELS SHALL BE GALVANIZED.	
23. PROVIDE PANEL LABELS AND NEATLY TYPED PRINT PANEL DIRECTORY INSIDE DOOR IN PLASTIC SLEEVE.	
24. UNLESS OTHERWISE NOTED ALL BREAKERS SHALL BE RATED MINIMUM 10 KA SYMMETRICAL INTERRUPTING CAPACITY AT 208 VOLTS, 3 PHASE AS APPROPRIATE AND NOT LESS THAN THE SHORT CIRCUIT CAPACITY AS SHOWN ON THE DRAWINGS.	
25. PROVIDE BREAKER LOCK-ON DEVICES FOR ALL ESSENTIAL AND EQUIPMENT LOADS.	
26. CONNECT ALL SINGLE PHASE LOADS SUCH THAT THERE IS THE LEAST POSSIBLE IMBALANCE OF PHASES UNDER NORMAL CONDITIONS.	
27. PROVIDE LOCKABLE, PAINTED RED BREAKERS FOR FIRE ALARM CONTROL PANEL POWER SOURCE.	
RACEWAYS AND BOXES	
28. PROVIDE OUTLET BOXES OF ADEQUATE SIZE OF TYPE APPROVED FOR THE PARTICULAR APPLICATION AS REQUIRED FOR ALL WIRING DEVICES, LIGHT FIXTURES, ETC., OR AS SHOWN. PROVIDE JUNCTION BOXES, COMPLETE WITH BLANK COVERS AS REQUIRED OR SHOWN FOR WIRING SYSTEMS. INSTALL ALL BOXES TO BE ACCESSIBLE, IF NECESSARY PROVIDE ACCESS PANELS. SECURE ALL BOXES INDEPENDENT OF THE CONDUIT/WIRING SYSTEM.	
29. IN ALL CASES USE ONLY CONDUIT AND RACEWAYS APPROVED FOR THE PARTICULAR APPLICATION AND OF ADEQUATE SIZE TO SUIT TYPE AND NUMBER OF CONDUCTORS BEING CARRIED. PROVIDE A SEPARATE GROUND CONDUCTOR IN ALL CONDUITS. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE GROUND PATH. WHERE INDICATED, USE CONDUIT AS SPECIFIED. EVERY CONDUIT OR SECTION OF ARMoured CABLE SHALL BE ADEQUATELY SECURED USING APPROVED SUPPORTS, CLAMPS AND FASTENERS TO ENSURE A SAFE AND SOUND INSTALLATION. ALL CONDUIT OR ARMoured CABLE RUNS IN WALLS AND CEILINGS SHALL BE CONCEALED IN WALLS, CEILINGS OR FURRING UNLESS OTHERWISE INDICATED OR APPROVED BY THE OWNER. ARMoured CABLE SHALL NOT BE USED WHERE EXPOSED UNLESS OTHERWISE NOTED.	
30. BOXES FOR OUTDOOR USE: GALVANIZED CAST FERRALLOY COMPLETE WITH NEOPRENE GASKET.	
31. BOXES FOR INDOOR USE: CODE GAUGE ELECTRO-GALVANIZED STEEL FOR CONCEALED MOUNTING AND GALVANEZ STEEL CAST FERRALLOY OR CAST BRUSHED ALUMINUM FOR EXPOSED USE, UNLESS OTHERWISE NOTED.	
32. FIXTURE BOXES: ELECTRO-GALVANIZED STEEL 100mm (4") OCTAGON COMPLETE WITH 10mm (3/8") FIXTURE STUD WHERE NECESSARY.	
33. WHERE OUTLET BOXES ARE INSTALLED IN EXTERIOR WALLS AND/OR INSULATED CEILING HAVING ASSOCIATED VAPOUR BARRIERS ON THE WARM SIDE OF THE INSULATION AND WHERE OUTLET BOXES PERFORM THE VAPOUR BARRIER, PROVIDE ELECTRICAL BOX VAPOUR BARRIERS BEHIND AND AROUND OUTLET BOXES. VERIFY EXACT REQUIREMENTS ON SITE PRIOR TO PROCEEDING	

ELECTRICAL SPECIFICATIONS

WITH INSTALLATIONS.

34. ALL JUNCTION BOXES IN CONCEALED CEILING SPACES SHALL BE LABELED WITH PEN MARKER AS TO CIRCUITS CONTAINED THEREIN.

35. SWITCHES AND RECEPTACLE BOXES SHALL BE 1/04 TYPE FOR RECESSED MOUNTING.

36. RIGID METAL CONDUIT SHALL BE USED WHERE INSTALLED AS AN EXTERIOR BRANCH CIRCUIT ABOVE FINISHED GRADES. ALL FITTINGS MUST BE THREADED TYPE. ALL CONDUIT TERMINATIONS SHALL HAVE BUSWINGS WITH INSULATED PLASTIC LINING. RIGID METAL EXPANSION JOINT - CROUSE HINDS "X" SERIES WITH BONDING STRAP OR EQUIVALENT.

37. IN AREAS WITH SOLID CEILINGS, ELECTRICAL AND SYSTEMS JUNCTION BOXES ALONG WITH ASSOCIATED WIRE AND CONDUIT SHALL BE LOCATED IN AREAS WHERE CEILING ACCESS IS POSSIBLE, OR ACCESS PANELS MAY BE PROVIDED WITH THE APPROVAL OF THE OWNER OR CONSULTANT.

38. EMT CONDUIT SHALL BE USED FOR WIRING AND CONCEALED WHEREVER POSSIBLE. EMT COUPLINGS AND CONNECTORS SHALL BE STEEL SET/SECC CONCRETE TIGHT OR STEEL COMPRESSION RAIN TIGHT.

39. ALL CONDUIT IN PUBLIC AREAS WITH EXPOSED CEILING MUST BE PAINTED EMT. PAINT COLOUR TO BE CONFIRMED BY ARCHITECT.

EMERGENCY/EXIT LIGHTING

40. EXIT SIGNS SHALL BE CSA APPROVED, PICTOGRAM GREEN "RUNNING-MAN" ON WHITE BACKGROUND MADE OF DURABLE EXTRUDED ALUMINUM HOUSING C/W WHITE FINISH, WHITE LED SOURCE, ENERGY EFFICIENT, AND UNIMPAIR MOUNTING.

41. REMOTE HEADS SHALL BE A-HAAT HEAD, COMPATIBLE WITH THE VOLTAGE SUPPLIED, IMPACT RESISTANT, FLAME RETARDANT THERMOPLASTIC, ROTATIONAL, SUPPLIED WITH A CAPNOPY C/W WHITE FINISH.

42. PROVIDE COMPLETE 12V DC BATTERY POWERED EMERGENCY LIGHTING SYSTEMS FOR THE BUILDING AREAS INDICATED. SYSTEMS SHALL CONSIST OF FULLY AUTOMATIC BATTERY UNITS ACCEPTANCE BY OWNER CONSULTANT. WITH INCLUDING BRACKET AND REMOTE LAMP HEADS AS SHOWN ON DRAWINGS. EMERGENCY BATTERY UNITS SHALL BE C/W BATTERY DISCONNECT SWITCH (70% OF NORMAL VOLTAGE) AND AUTO TEST AND AUTOMATED SELF-DIAGNOSTIC CIRCUITRY COMPLYING WITH C.S.A. AND N.B.C. REQUIREMENTS.

43. THE EMERGENCY BATTERIES SHALL BE LONG LIFE LEAD-ACID, CALCIUM ALLOY TYPE IN SEALED PLASTIC CONTAINERS AND BE TOTALLY MAINTENANCE FREE WITH A MINIMUM LIFE EXPECTANCY OF 10 YEARS.

44. THE BATTERY CAPACITY SHALL BE SIZED TO SUPPLY THE NUMBER OF FIXTURES INDICATED ON THE DRAWINGS, PLUS HAVE AN ADDITIONAL MINIMUM 10% SPARE CAPACITY FOR FUTURE HEADS. THE BATTERIES SHALL BE CAPABLE OF PROVIDING POWER TO THE FIXTURES FOR THIRTY MINUTES WITHOUT DROPPING BELOW NINETY (90) PERCENT OF THE RATED BATTERY VOLTAGE.

45. PROVIDE GREY COLOURED CONDUCTORS IN A SEPARATE CONDUIT SYSTEM, FOR THE D.C. WIRING. WIRE SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN VOLTAGE DROP TO LESS THAN 5% TO FURTHE FUTURE, CONTACT REMOTE LAMP HEADS AND EXIT SIGN EMERGENCY SOCKETS TO BATTERY UNIT INDICATED. INSTALL A SINGLE RING FROM BATTERY UNIT TO BATTERY UNIT FOR CONNECTION TO BATTERY SUPPLY FROM A LOCAL LIGHTING CIRCUIT. MOUNTING PLATFORMS AND ACCESSORIES SHALL BE PROVIDED FOR A PERMANENT AND SAFE INSTALLATION OF THE BATTERY UNITS.

LIGHTING

46. LED FIXTURES: MINIMUM TEMPERATURE OF 3500K FOR COMMERCIAL AND 4000K FOR EXTERIOR OR NOTED OTHERWISE. ACCEPTABLE MANUFACTURES AS PER LUMINAIRE SCHEDULE.

47. PROVIDE ALL LIGHT FIXTURES AS SPECIFIED ON THE DRAWINGS COMPLETE WITH BALLASTS, DRIVERS, LENSES, LAMPS, AUXILIARY COMPONENTS, MOUNTING HARDWARE, ETC., REQUIRED FOR A COMPLETE INSTALLATION. VERIFY ALL CATALOG NUMBERS WITH DESCRIPTIONS GIVEN. CHECK ALL LIGHTING FIXTURES PRIOR TO THEIR INSTALLATION TO ENSURE THAT THEY ARE THE SPECIFIED FIXTURES FOR THE PROJECT.

48. LED MONOCHROME LIGHTING FIXTURE SHALL HAVE LIGHTING WITH A MINIMUM CRI OF 85 FOR REGULARLY OCCUPIED SPACES, A MINIMUM CRI OF 70 FOR EXTERIOR, AND A MINIMUM OF 75 FOR ALL OTHER SPACES. THE FIXTURE SHALL HAVE A MINIMUM L70 OF 50,000 HOURS. ALL LIGHTING SHALL HAVE ESNIA LM-79 AND LM-80 TESTING REPORTS AND LIFE CALCULATIONS BASED ON TM-21. EXTERIOR AND INTERIOR AREA LIGHTING SHALL HAVE A MINIMUM EFFICIENCY OF 80 LUMENS PER WATT

49. LED DRIVERS SHALL HAVE MINIMUM LIFESPAN EQUAL OR BETTER THAN THE LIFESPAN OF THE L70 LIFESPAN OF THE LED LAMPS IF SERVES. DRIVERS SHALL BE INTEGRATED INTO THE FIXTURE IF SERVING ONLY THAT FIXTURE OR REMOTE IF THE DRIVER SERVES MORE THAN ONE FIXTURE. ALL DRIVERS SHALL BE DIMMABLE USING 0-10V DIMMING TECHNOLOGY UNLESS NOTED OTHERWISE. LED DRIVERS SHALL HAVE HIGH POWER FACTOR. ALL LED LIGHTING AND DRIVERS USED IN EXTERIOR OR UNHEATED APPLICATIONS SHALL PROVIDE START-UP AND OPERATION IN TEMPERATURES FROM -30 °C TO +50 °C.

50. THE CONTRACTOR SHALL ENSURE THAT ALL LIGHT FIXTURES ARE ADEQUATELY SUPPORTED. FIXTURES MUST BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURAL MEMBERS. FOR ALL OTHER REQUIREMENTS OF THE LIGHT FIXTURE SUPPORTS WITH THE OTHER TRADES (WHERE APPLICABLE) PRIOR TO FIXTURE INSTALLATION. FIXTURE SAFETY CHAINS OR WIRES SHALL ALSO BE PROVIDED AS REQUIRED BY REGULATORY AGENCIES.

51. THE METHOD OF ATTACHING SUSPENSION WIRES AND SAFETY CHAINS TO FIXTURES AND BUILDING ELEMENTS SHALL BE DISCUSSED AND APPROVED BY THE CONSULTANT OR OWNER PRIOR TO INSTALLATION.

52. SHOP DRAWINGS FOR LUMINAIRES INDICATING LIGHTING PERFORMANCE DETAILS, FIXTURE CONSTRUCTION DETAILS, AIR CONTROL AND DUCTWORK CONNECTION DETAILS, ETC., AND PICTURES OF EACH TYPE OF LIGHTING FIXTURE SHALL BE SUBMITTED FOR REVIEW.

53. SHOP DRAWINGS SHALL BE SUBMITTED FOR LED DRIVERS FOR ALL FIXTURES TO BE INSTALLED. THESE SHALL BE SUBMITTED SEPARATELY FROM THE LIGHTING FIXTURES BEING INSTALLED AND SHOWN ON EACH FIXTURE AND PRODUCT BEING INSTALLED.

54. FOR APPROVED EQUIPMENT TO BASE DESIGN FIXTURES. SHOP DRAWINGS FOR EXTERIOR LIGHTING SHALL INCLUDE A COMPUTER GENERATED SITE PLAN PLOT POINT-BY-POINT CALCULATIONS AT NO LESS THAN 3 m (10') SPACING FOR THE FULL EXTERIOR SPACE UP TO 2 m BEYOND THE PROPERTY LINE INCLUDING ALL SITE LIGHTING FIXTURES. PROVIDE LIGHTING POWER DENSITY FOR ALL PAVED AREAS, PARKWAYS AND ROADWAY AREAS.

55. FIXTURES SHALL NOT BE RELEASED PRIOR TO REVIEW OF THE SHOP DRAWINGS. CANCELLATION CHARGES WILL NOT BE PAID FOR CHANGES TO FIXTURES MADE BEFORE THE FIXTURE CUTS HAVE BEEN REVIEWED.

OCCUPANCY SENSORS

56. DUAL TECHNOLOGY CEILING AND WALL MOUNT SENSORS.

57. SENSORS SHALL SENSE A PERSON OF AVERAGE SIZE MOVING DISTANCE OF 2' AND RETAIN LIGHTS IN "ON" STATE.

58. SENSORS SHALL HAVE AN INTEGRAL BYPASS SWITCH SHUNT FOR SERVICE OR MANUAL OPERATION.

59. MULTIPLE SENSORS SHALL BE WIRED IN PARALLEL TO OBTAIN COVERAGE NOTED ON DRAWINGS.

60. TIME DELAY TO "OFF" SHALL BE ADJUSTABLE FROM 5 TO 30 MINUTES AND THE SENSOR SHALL BE COMPATIBLE WITH WALK-THROUGH AND TEST MODES.

61. SENSORS SHALL CARRY A 5 YEAR WARRANTY.

62. SENSORS SHALL INTERFACE WITH POWER/RELAY PACKS AS REQUIRED BY THE SAME MANUFACTURER TO CONTROL THE LOADS NOTED ON THE DRAWINGS.

63. CEILING MOUNT OCCUPANCY SENSOR TO HAVE COVERAGE OF 2000 SQUARE FEET.

WIRING DEVICES

64. SWITCHES AND RECEPTACLES: PROVIDE SPECIFICATION GRADE WIRING DEVICES AS SHOWN ON THE DRAWINGS. DEVICES SHALL BE AS MANUFACTURED BY HUBBELL (OR APPROVED EQUIVALENT) AS FOLLOWS:

15 AMP., 120 V TOGGLE SWITCH - 1-201

20 AMP., 347 V TOGGLE SWITCH - 1-8220

15 AMP., 120 V DUPLEX RECEPTACLE - S-5252

20 AMP. DUPLEX RECEPTACLE (I-T-SLOT) - S-5352

15 AMP. GROUND FAULT DUPLEX RECEPTACLE - GF-2552

20 AMP. GROUND FAULT DUPLEX RECEPTACLE - GF-3552

WEATHERPROOF IN-USE RECEPTACLE COVER - WP-262

DECORATOR STYLE 120 VOLT DEVICES

15 AMP., 120 V ROCKER SWITCH - DS-115

20 AMP., 120 V ROCKER SWITCH - DS-120

15 AMP., 120 V DUPLEX RECEPTACLE - DR-115

20 AMP. DUPLEX RECEPTACLE (I-T-SLOT) - DR-215

15 AMP. GROUND FAULT DUPLEX RECEPTACLE - GF-115

20 AMP. GROUND FAULT DUPLEX RECEPTACLE - GF-215

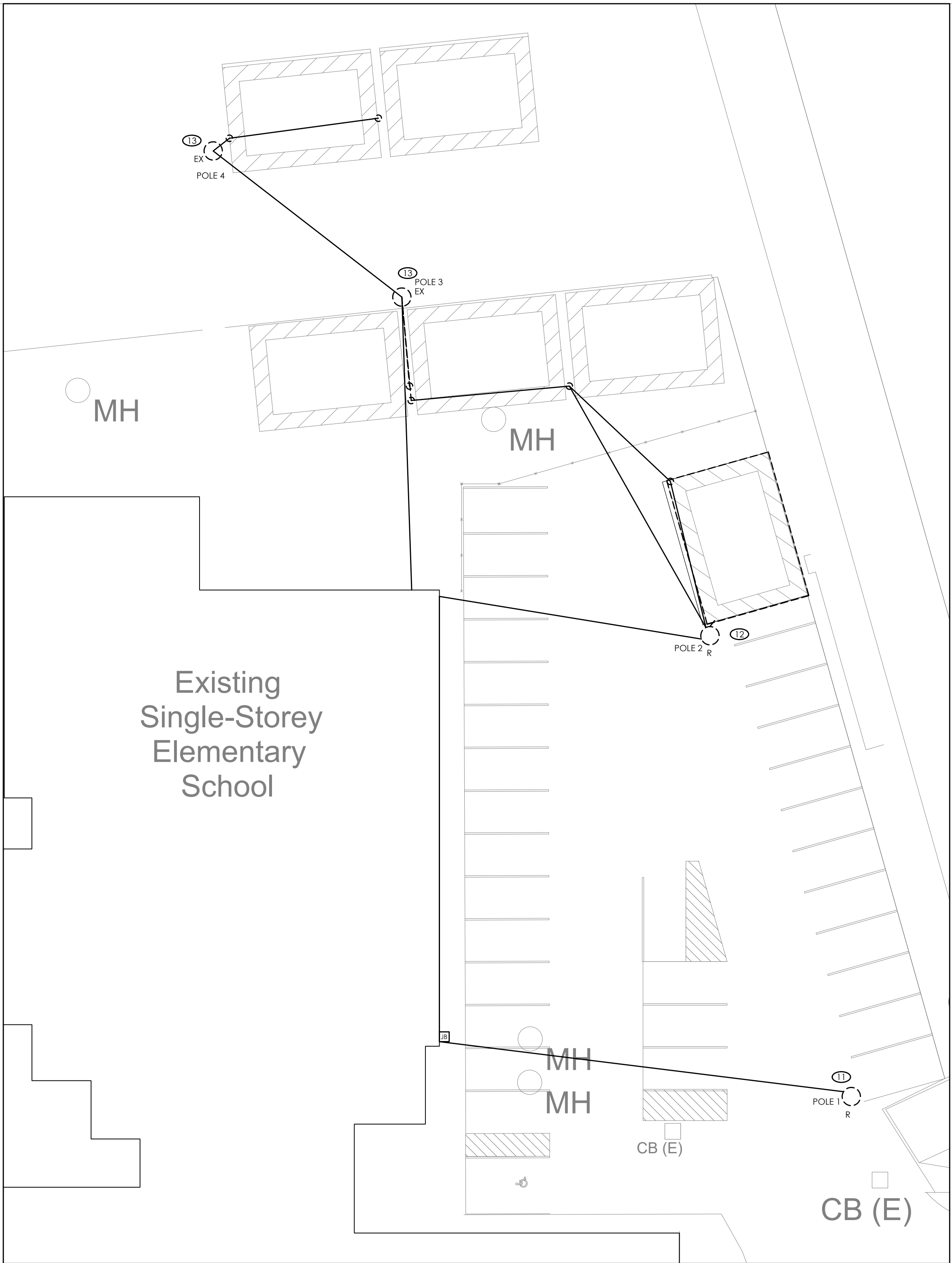
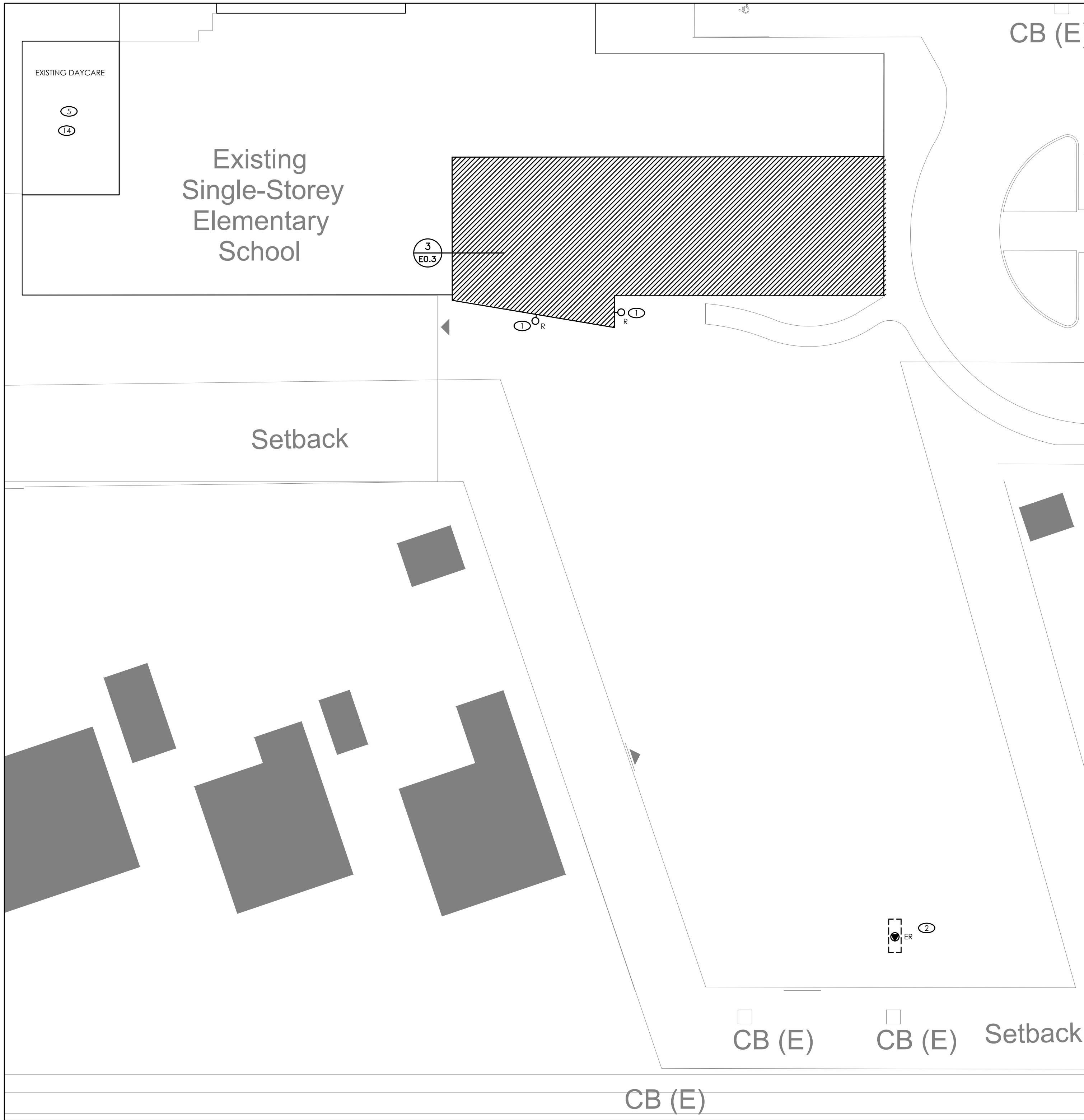
65. PROVIDE VERTICALLY BRUSHED STAINLESS STEEL COVERPLATES. COLOURED TO MATCH DEVICE. FOR FLUSH MOUNTED DEVICES OR GALVANIZED STEEL TYPE COVERPLATES WITH ROUNDED CORNERS FOR SURFACE MOUNTED DEVICES AS APPROPRIATE FOR ALL OUTLETS, GANGED TYPE OR ALL OTHER OUTLETS. PROVIDE SPECIAL RECEPTABLES AND OUTLET TYPES AS IDENTIFIED ON THE DRAWINGS.

66. ALL EXTERIOR RECEPTABLES SHALL BE GFCI AND COME WITH WHILE-IN-USE COVERS AS PER OESC.

69. MOUNT DEVICES AT THE FOLLOWING HEIGHTS UNLESS NOTED OTHERWISE OR TO COMPLY WITH OBC. BARRIER FREE DESIGN:

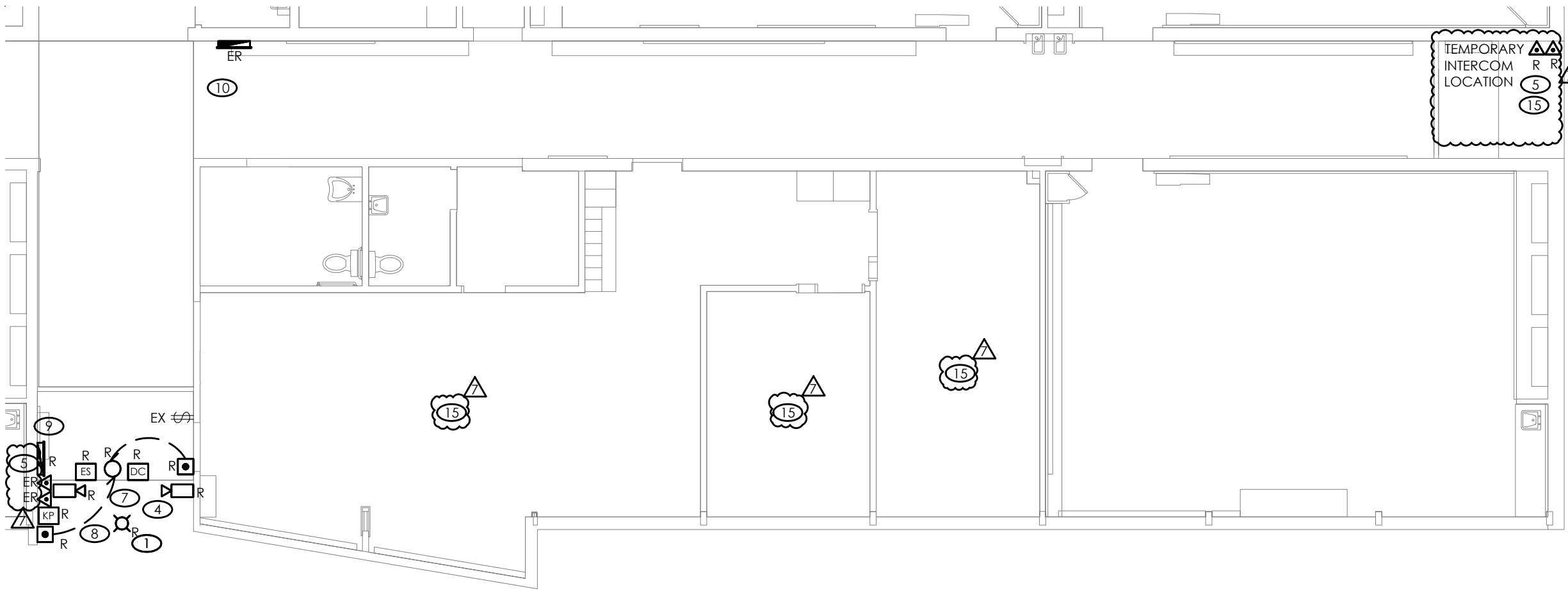
a. SWITCHES - 1200mm (4'7")

b. RECEPTABLES - 450mm (1'7")



1 DEMOLITION SITE PLAN (SOUTH)
E0.3 SCALE: 1:200

2 DEMOLITION SITE PLAN (NORTH)
E0.3 SCALE: 1:200



3 EXISTING MAIN ENTRANCE AND OFFICE DEMOLITION PLAN
E0.3 SCALE: 1:100

DRAWING NOTES

- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED WIRING/ CONDUIT BACK TO NEAREST JUNCTION BOX.
- DISCONNECT POWER TO EXISTING SCHOOL SIGN AND MAKE SAFE FOR RELOCATION. PROTECT ASSOCIATED WIRING/CONDUIT. PRESERVE CIRCUIT FOR REUSE.
- REMOVE EXISTING SURVEILLANCE CAMERAS AND RETURN TO OWNER. ASSOCIATED WIRING/CONDUIT SHALL BE REMOVED BACK TO SOURCE.
- TEMPORARILY RELOCATE EXISTING INTERCOMS AT MAIN ENTRANCE TO INDICATED LOCATION. EXISTING WIRING/CONDUIT SHALL BE REMOVED BACK TO SOURCE. PROVIDE WIRING/CONDUIT AS REQUIRED TO RELOCATE DEVICES. WIRING SHALL MATCH EXISTING. FOLLOWING INSTALLATION OF NEW DOOR INTERCOM SYSTEM, RELOCATED DEVICES SHALL BE REMOVED AND RETURNED TO OWNER.
- DEMOLISH TOGGLE SWITCH AND ASSOCIATED WIRING/CONDUIT BACK TO NEAREST JUNCTION BOX.
- DISCONNECT AND REMOVE EXISTING AUTOMATIC DOOR OPENER AND PUSHBUTTONS.
- DISCONNECT AND REMOVE EXISTING ELECTRIC STRIKE, KEYPAD, AND DOOR CONTACT. REMOVE ALL WIRING/CONDUIT BACK TO SOURCE. RETURN DEVICES TO OWNER.
- DEMOLISH EXISTING CHUBB ALARM PANEL. PRESERVE EXISTING WIRING/CONDUIT FOR REUSE.
- DISCONNECT EXISTING FIRE ALARM ANNUNCIATOR AND MAKE SAFE FOR RELOCATION. PRESERVE EXISTING WIRING/CONDUIT FOR REUSE.
- DISCONNECT ALL POWER, COMMUNICATIONS, FIRE ALARM, AND SECURITY WIRING FROM EXISTING POLE 1 AND MAKE SAFE FOR REMOVAL. WIRING SHALL BE REMOVED BACK TO SOURCE.
- DEMOLISH ALL COMMUNICATIONS WIRING FROM EXISTING PORTABLES BACK TO SOURCE. ALL POWER WIRING TO POLE 2 SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX ON SCHOOL EXTERIOR. REMOVE EXISTING POWER POLE 2.
- POWER POLES 3, 4, AND ALL ASSOCIATED POWER WIRING SHALL BE PRESERVED FOR REUSE.
- (SEPARATE PRICE #1) DISCONNECT AND REMOVE LIGHT FIXTURES AND CONTROLS IN EXISTING DAYCARE ROOM. PRESERVE EXISTING CIRCUIT AND WIRING/CONDUIT FOR REUSE.
- FOLLOWING INSTALLATION OF NEW DOOR INTERCOM SYSTEM, EXISTING ALPHONIE DOOR RELEASE STATIONS IN INDICATED LOCATIONS SHALL BE REMOVED AND RETURNED TO OWNER. COORDINATE WITH OWNER FOR EXACT LOCATION AND QUANTITY.

REVIEW ALL DRAWINGS AND VERIFY ALL DIMENSIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY CONSTRUCTION OR SHOP FABRICATION. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF "MANTECON PARTNERS" AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

NO.	ISSUED	DATE	BY
7	ISSUED FOR ADDENDUM E-01	2024/11/06	P.O.
6	ISSUED FOR TENDER	2024/10/09	P.O.
5	ISSUED FOR PERMIT	2024/07/26	P.O.
4	ISSUED FOR PERMIT	2023/12/22	F.S.
3	ISSUED FOR COORDINATION	2023/12/08	F.S.
2	ISSUED FOR 80% REVIEW	2022/12/23	A.C.
1	ISSUED FOR 60% REVIEW	2022/11/24	A.C.

CLIENT
WORKSHOP ARCHITECTURE

PROJECT:
CSV L'HARMONIE DAYCARE ADDITION
158 BRIDGEPORT ROAD EAST WATERLOO, ONTARIO

DRAWING TITLE:
DEMOLITION SITE PLAN

DRAWN BY:
P.O.

CHECKED BY:
N.A.

DATE:
NOV 2022

PROJECT NUMBER:
22-058

SCALE:
AS INDICATED

DRAWING NUMBER:
ED1.0

ADDENDUM

C-01

Architect:	Workshop	Date:	November 06, 2024
Project:	CSV L'Harmonie Daycare Addition	Project No.:	22-058

This addendum forms part of the contract documents and amends the original bidding requirements, drawings and specifications noted below.

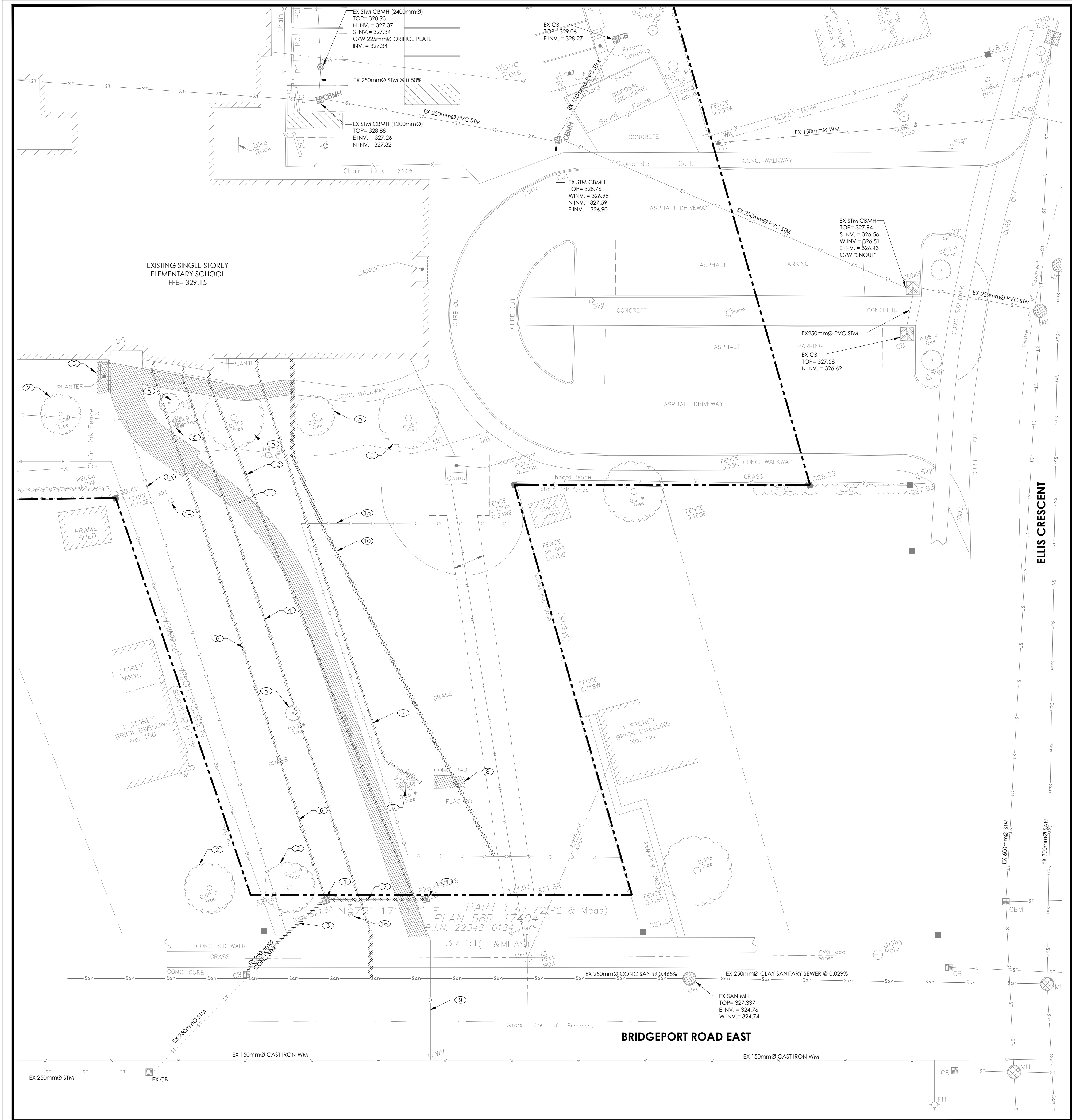
1 Civil

1.1 Drawings

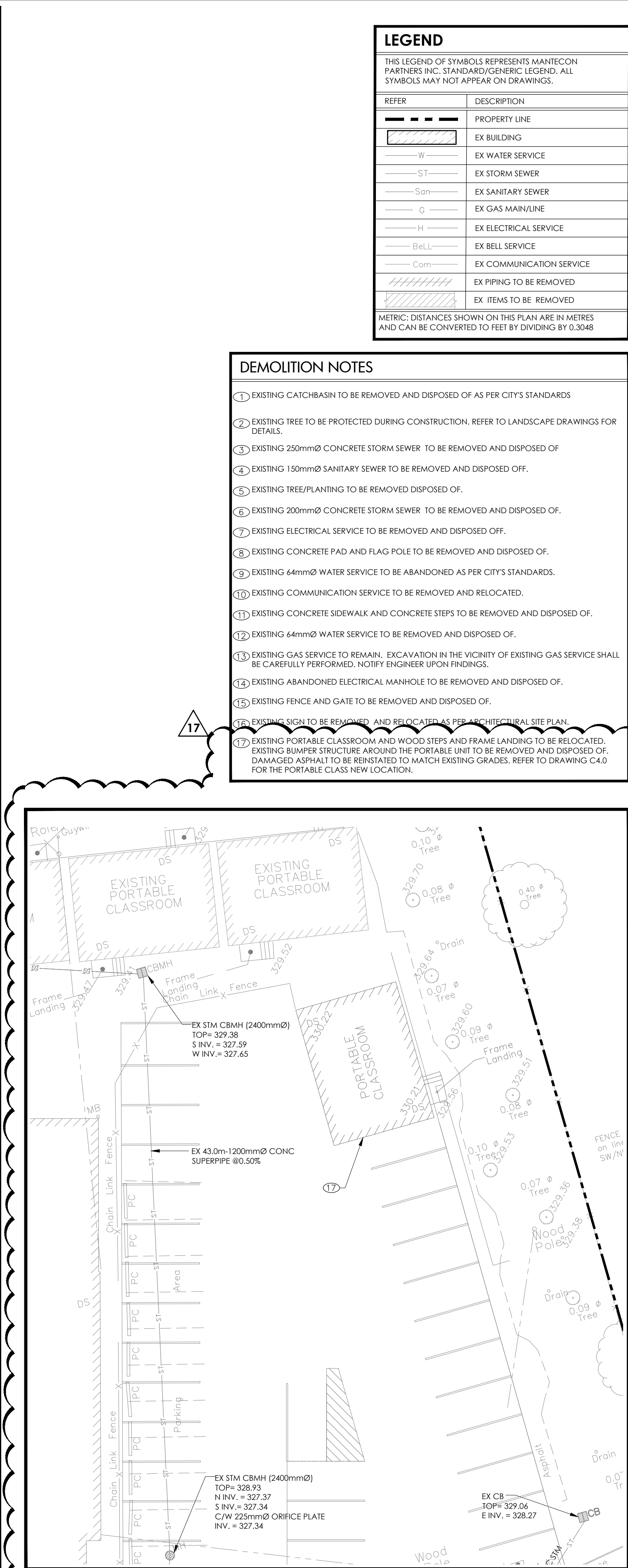
.1 C2.0 Site Demolition Plan

- Remove and relocate existing portable classroom, wood steps and frame landing.
- Remove and dispose of existing bumper structure around the portable unit that is being relocated.
- Reinstall damaged asphalt due to relocating the portable unit. Grades to match existing.

END OF ADDENDUM C-01



1 SITE DEMOLITION PLAN-A
C2.0 SCALE: 1:200



2 SITE DEMOLITION PLAN-B
C2.0 SCALE: 1:200

LEGEND	
THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD/GENERIC LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
REFER	DESCRIPTION
	PROPERTY LINE
	EX BUILDING
	EX WATER SERVICE
	EX STORM SEWER
	EX SANITARY SEWER
	EX GAS MAIN/LINE
	EX ELECTRICAL SERVICE
	EX BELL SERVICE
	EX COMMUNICATION SERVICE
	EX PIPING TO BE REMOVED
	EX ITEMS TO BE REMOVED

METRIC: DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

DEMOLITION NOTES	
1	EXISTING CATCHBASIN TO BE REMOVED AND DISPOSED OF AS PER CITY'S STANDARDS
2	EXISTING TREE TO BE PROTECTED DURING CONSTRUCTION. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.
3	EXISTING 250mmØ CONCRETE STORM SEWER TO BE REMOVED AND DISPOSED OF
4	EXISTING 150mmØ SANITARY SEWER TO BE REMOVED AND DISPOSED OF.
5	EXISTING TREE/PLANTING TO BE REMOVED DISPOSED OF.
6	EXISTING 200mmØ CONCRETE STORM SEWER TO BE REMOVED AND DISPOSED OF.
7	EXISTING ELECTRICAL SERVICE TO BE REMOVED AND DISPOSED OFF.
8	EXISTING CONCRETE PAD AND FLAG POLE TO BE REMOVED AND DISPOSED OF.
9	EXISTING 64mmØ WATER SERVICE TO BE ABANDONED AS PER CITY'S STANDARDS.
10	EXISTING COMMUNICATION SERVICE TO BE REMOVED AND RELOCATED.
11	EXISTING CONCRETE SIDEWALK AND CONCRETE STEPS TO BE REMOVED AND DISPOSED OF.
12	EXISTING 64mmØ WATER SERVICE TO BE REMOVED AND DISPOSED OF.
13	EXISTING GAS SERVICE TO REMAIN. EXCAVATION IN THE VICINITY OF EXISTING GAS SERVICE SHALL BE CAREFULLY PERFORMED, NOTIFY ENGINEER UPON FINDINGS.
14	EXISTING ABANDONED ELECTRICAL MANHOLE TO BE REMOVED AND DISPOSED OF.
15	EXISTING FENCE AND GATE TO BE REMOVED AND DISPOSED OF.
16	EXISTING SIGN TO BE REMOVED AND RELOCATED AS PER ARCHITECTURAL SITE PLAN.
17	EXISTING PORTABLE CLASSROOM AND WOOD STEPS AND FRAME LANDING TO BE RELOCATED. EXISTING BUMPER STRUCTURE AROUND THE PORTABLE UNIT TO BE REMOVED AND DISPOSED OF. DAMAGED ASPHALT TO BE REINSTATED TO MATCH EXISTING GRADES. REFER TO DRAWING C4.0 FOR THE PORTABLE CLASS NEW LOCATION.

PROJECT NORTH

MANTECON PARTNERS
STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEERS

15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905) 648-0373 www.manteconpartners.com

REVIEW ALL DRAWINGS AND VERIFY ALL DIMENSIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY CONSTRUCTION OR SHOP FABRICATION. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF MANTECON PARTNERS AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

8.	ISSUED FOR ADDENDUM 1	2024-11-06	C.B.
7.	ISSUED FOR TENDER	2024-10-09	Y.T.
6.	ISSUED FOR PERMIT	2024-07-26	Y.T.
5.	ISSUED FOR PERMIT	2023-12-22	Y.T.
4.	ISSUED FOR COORDINATION	2023-12-08	Y.T.
3.	RE-ISSUED FOR SPA	2023-06-21	Y.T.
2.	ISSUED FOR SPA SUBMISSION	2022-12-23	Y.T.
1.	ISSUED FOR SPA & 80% REVIEW	2022-12-23	Y.T.

CLIENT
WORKSHOP ARCHITECTURE

PROJECT:
CSV L'HARMONIE DAYCARE ADDITION

**158 BRIDGEPORT ROAD EAST
WATERLOO, ONTARIO**

DRAWING TITLE:
SITE DEMOLITION PLAN

SP-12-08

DRAWN BY: A.A.	SCALE: AS NOTED
CHECKED BY: Y.T.	DRAWING NUMBER:
DATE: NOV 2022	
PROJECT NUMBER: 22-058	

C2.0

ADDENDUM

M-01

Architect:	Workshop	Date:	November 6, 2024
Project:	CSV L'Harmonie Daycare Addition	Project No.:	22-058

This addendum forms part of the contract documents and amends the original bidding requirements, drawings and specifications noted below.

1 Mechanical

1.1 Drawings

- .1 M1.0 Ground Floor Proposed Drainage Plan
 - Grease interceptor selections changed- sizing updated.
- .2 M6.0 Mechanical Schedules
 - Grease interceptor schedule and selection added.

1.2 Notes

- .1 Contractor is required to conform to the Plumbing Code including Air Test, Potable water tests, and any other applicable tests.

END OF ADDENDUM M-01



DRAWING NOTES

- 1 CONNECT TO SITE SERVICE.
- 2 STORM WATER PIPE TO RUN AT HIGH LEVEL.
- 3 RAIN WATER LEADER FROM CANOPY WITH CAST IRON BASE AND CLEAN OUT (NO VISIBLE PVC).
- 4 PEDIMAT LOCATED AT ENTRANCE DOOR, COORDINATE SIZE AND TYPE WITH ARCHITECTS.

GENERAL DRAWING NOTES

1. CONTRACTOR TO READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL & ELECTRICAL DRAWINGS.
2. UNLESS OTHERWISE NOTED ALL FLOOR DRAIN, FUNNEL FLOOR DRAINS SHOWN ON THE DRAWING SHALL BE CONNECTED TO THE TRAP SEAL PRIMER. CONTRACTOR TO FIELD RUN ALL TUBING AS NECESSARY TO ACCOMMODATE. TUBING SIZE SHALL BE 3/8" ID MINIMUM.

GREASE INTERCEPTOR (GI) CALCULATION

GI-1
GREASE INTERCEPTOR CALCULATION:
OBC 7.4.4.3(8)
SERVIFY

2x SINGLE SINK $\frac{2 \times 0.75' (45.72 \times 40.62 \times 20.32)}{60 \text{ seconds} \times 1000 \text{ L/cm}^3} = 0.943 \text{ L/s}$

TRIPLE SINK $\frac{0.75' (3' 40.62 \times 35.56 \times 17.78)}{60 \text{ seconds} \times 1000 \text{ L/cm}^3} = 0.964 \text{ L/s}$

TOTAL 1.907 L/s

SELECT A PROCEPTOR MODEL: ZURN Z1170 - 700 - T
TOTAL LIQUID CAPACITY: 249.730L

GI-2
GREASE INTERCEPTOR CALCULATION:
OBC 7.4.4.3(8)
SERVIFY

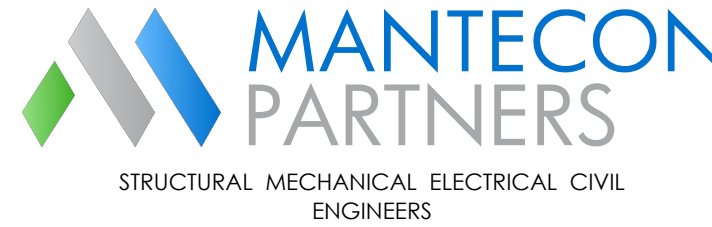
DISHWASHER 4GPM = 0.25 L/s (RESIDENTIAL)

TOTAL .25 L/s

SELECT A PROCEPTOR MODEL: ZURN ZA1170 - 100 - T
TOTAL LIQUID CAPACITY: 47.774L



PROJECT NORTH



15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905) 648-0373 www.manteconpartners.com

SEAL

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NO.	ISSUED	DATE	BY
11	ISSUED FOR TENDER ADDENDUM M-01	2024-10-22	J.S.
10	ISSUED FOR TENDER	2024-10-09	J.S.
9	ISSUED FOR PERMIT COMMENTS	2024-09-26	J.C.
8	ISSUED FOR PERMIT COMMENTS	2024-08-27	J.S.
7	ISSUED FOR TENDER	2024-07-26	J.S.
6	ISSUED FOR PERMIT	2024-07-26	J.S.
5	ISSUED FOR COORDINATION	2024-07-08	J.S.
4	ISSUED FOR PERMIT	2023-12-22	R.S.
3	ISSUED FOR COORDINATION	2023-12-11	A.C.
2	ISSUED FOR 80% REVIEW	2022-12-23	J.L.
1	ISSUED FOR 60% REVIEW	2022-11-23	J.L.

CLIENT

WORKSHOP
ARCHITECTURE

PROJECT:

CSV L'HARMONIE DAYCARE
ADDITION

158 BRIDGEPORT ROAD EAST
WATERLOO, ONTARIO

DRAWING TITLE:

GROUND FLOOR
PROPOSED
DRAINAGE PLAN

DRAWN BY:

J.S.

CHECKED BY:

J.L.

DATE:

NOV 2022

PROJECT NUMBER:

22-058

SCALE:

AS NOTED

DRAWING NUMBER:

M1.0

October 23, 2024 - 08:54am Plotted by: jsneek

1 GROUND FLOOR PROPOSED DRAINAGE PLAN



M1.0 SCALE: 1:100

ORIGINAL SHEET - ARCH D

ROOFTOP UNIT SCHEDULE																				
TAG	SUPPLY FAN				DUCT CONFIGURATION	COOLING COIL				GAS HEATING				ELECTRICAL (MAIN POWER)				WEIGHT KG (LBS)	MANUFACTURER AND MODEL (BASIS OF DESIGN: TRANE)	
	AIR FLOW (L/S)	E.S.P. (IN.WG.)	FRPM	HP		E.A.T. DB/WB [°C]	L.A.T. DB/WB [°C]	REFRIGERANT	TOTAL CAP. KW(MBH)	SENS. CAP. KW(MBH)	INPUT KW(MBH)	OUTPUT KW(MBH)	EFFICIENCY	TURNDOWN	MCOP	MCA	FLA			VOLTAGE
RTU-2	2723	0.750	1165	3	-	25.56 / 19.33	13.85 / 13.47	-	53.42(182.27)	37.11(126.64)	73.27(250.00)	59.35(202.50)	-	-	100.00	78.00	-	208V/3Ø/60Hz	1047.8 (2310.0)	TRANE MODEL: YS1180A3SBL**H4E0A1A10000000000000000000

GRILLES REGISTERS DIFFUSERS					
TAG	SIZE (MM)	APPLICATION	NECK SIZE (MM)	AIR FLOW RANGE (L/S)	MANUFACTURER AND MODEL (BASIS OF DESIGN: EH, PRICE)
S-1	1500	SUPPLY AIR	250	AS INDICATED	EH, PRICE MODEL: 4 SLOTS SDS LINEAR SLOT DIFFUSER WITH 1" SLOT WIDTH
S-2	1200	SUPPLY AIR	250	AS INDICATED	EH, PRICE MODEL: 4 SLOTS SDS LINEAR SLOT DIFFUSER WITH 1" SLOT WIDTH
S-3	600X600	SUPPLY AIR	150	AS INDICATED	EH, PRICE MODEL: SQUARE CONE DIFFUSER (SCD)
S-4	600X600	SUPPLY AIR	200	AS INDICATED	EH, PRICE MODEL: SQUARE CONE DIFFUSER (SCD)
S-5	600X600	SUPPLY AIR	250	AS INDICATED	EH, PRICE MODEL: SQUARE CONE DIFFUSER (SCD)
S-6	900	SUPPLY AIR	100	AS INDICATED	EH, PRICE MODEL: 1 SLOT SDS LINEAR SLOT DIFFUSER WITH 1" SLOT WIDTH
R-1	AS INDICATED	RETURN AIR	AS INDICATED	AS INDICATED	EH, PRICE MODEL: 80 SERIES, ALUMINIUM CONSTRUCTION, EGCCRATE FACE RETURN, WHITE POWDER COAT FINISH.
TE-1, E-1, S-7	AS INDICATED	EXHAUST	AS INDICATED	AS INDICATED	EH, PRICE MODEL: 630 SERIES, BLADE PARALLEL TO SHORT DIMENSION, WHITE POWDER COAT FINISH.

ZONE DAMPER SCHEDULE						
TAG #	GENERAL DESCRIPTION AREA SERVED (ROOM No.)	SUPPLY AIR INLET SIZE ØD MM (IN)	SUPPLY AIR OUTLET SIZE (WxH) [MM]	AIR FLOW (L/S)		MANUFACTURER & MODEL (BASIS OF DESIGN: TRANE) (APPROVAL EQUAL: EH PRICE: ITIUS)
				MAX.	MIN.	
VAV-1	137 ADMIN OFFICE	100 (4)	-	106.2	11.8	TRANE MODEL: VCCF04 (COOLING ONLY)
VAV-2	138 SERVERY	100 (4)	-	106.2	24.1	TRANE MODEL: VCCF10 (COOLING ONLY)
VAV-3	139 TODDLER ROOM	200 (8)	-	424.8	171.8	TRANE MODEL: VCCF08 (COOLING ONLY)
VAV-4	141 PRESCHOOL ROOM (1)	200 (8)	-	424.8	257.7	TRANE MODEL: VCCF08 (COOLING ONLY)
VAV-5	142 PRESCHOOL ROOM (2)	250 (10)	-	660.8	263.9	TRANE MODEL: VCCF10 (COOLING ONLY)
VAV-6	136 HALLWAY	200 (8)	-	424.8	41.1	TRANE MODEL: VCCF08 (COOLING ONLY)
VAV-7	150 STAFF LOUNGE	125 (5)	-	165.2	103.4	TRANE MODEL: VCCF05 (COOLING ONLY)
VAV-8	147 INFANT ROOM	200 (8)	-	424.8	114.8	TRANE MODEL: VCCF08 (COOLING ONLY)
VAV-9	149 REST AREA	100 (4)	-	106.2	53.8	TRANE MODEL: VCCF04 (COOLING ONLY)
VAV-10	145 UTILITY ROOM & 152 LAUNDRY	100 (4)	-	106.2	20.8	TRANE MODEL: VCCF04 (COOLING ONLY)



PUMP SCHEDULE							
SYMBOL	SERVICE	FLOW RATE L/S	PRESSURE DROP KPA	FLUID TYPE	MOTOR		
					HP	VOLTAGE	RPM
	DOMESTIC HOT WATER RECIRCULATION	0.1	9	POTABLE WATER	-	120V/1Ø/60Hz	-
	HHW	1.58	100	HHW	0.5	208V/3Ø/60Hz	3494
							ARMSTRONG MODEL: 4380 0103-000.5
















EXPANSION TANK SCHEDULE					
TAG	LOCATION	SERVICE	TYPE	TANK VOLUME L	MANUFACTURER AND MODEL (BASIS OF DESIGN: AMTORL)
ET-1	LAUNDRY ROOM	DHW	DIAPHRAGM	93.9	AMTORL MODEL: ST-12C-DD 150 PSIG ASME RATED
ET-2	UTILITY ROOM	HHW	PARTIAL BLADDER	132.5	AMTORL MODEL: 35LBC


WATER HEATER SCHEDULE							
SYMBOL	CAPACITY KW	WATER TEMP. °C		RECOVERY L/H	ELECTRICAL VOLTAGE	DIMENSIONS (HXD) (MM)	OPERATING WEIGHT KG
		ENT.	LVG.				
GW-H	58.6	4.5	60	903	120V/1Ø/60Hz	1924x711	688
							WATTS PVI CONQUEST 20L 100A GCL, C/W CONDENSATE NEUTRALIZATION KIT, CONCENTRIC TERMINATION KIT, FACTORY INSTALLED POWER CORD

BOILER SCHEDULE								
SYMBOL	CAPACITY KW(MBH)		WATER TEMP. °C		FLOW L/S	ELECTRICAL		REMARKS
	INPUT	OUTPUT	ENT.	LVG.		VOLTAGE	MCA	
B-1	26.27(91)	25.2(86)	43	60	1.58	120V/1Ø/60Hz	12A	VISSMANN: MODEL B2HA 88, 311












KITCHEN EXHAUST HOOD SCHEDULE								
No.	AREA SERVED	AIRFLOW L/S (CFM)	S.P. IN.WG.	ELECTRICAL	DIMENSIONS			
					HOOD LENGTH MM(IN)	WIDTH TOP MM(IN)	WIDTH BOT. MM(IN)	HEIGHT MM(IN)
KH-01	SERVERY	236 (500)	0.91	115V/1Ø/60Hz	900 (36)	30 (12)	596(23.5)	317(12.5)
							42.2 (93)	GREENHECK GRRS-W-36-T-E-D-N

GREASE INTERCEPTOR SCHEDULE									
No.	AREA SERVED	FLOW RATE L/S (GPM)	CAPACITY KG (LBS)	DIMENSIONS			OPERATING WEIGHT KG(LBS).	MANUFACTURER AND MODEL	
				LENGTH MM(IN)	WIDTH MM(IN)	HEIGHT MM(IN)			
	SERVERY	1.907 (30.226)	32 (70)	819 (32 1/4')	416 (24 1/4')	497 (19 1/2')	78 (172)	ZURN Z1170 - 700 - T GREASE INTERCEPTOR, SIZE 700 C/W RECESSED COVER FOR TILE MATCHING TILE THICKNESS.	
	SERVERY	.25 (3.963)	6 (14)	438 (17 1/4')	318 (12 1/2')	343 (13 1/2')	25 (56)	ZURN Z1170 - 100 - T GREASE INTERCEPTOR, SIZE 100 C/W RECESSED COVER FOR TILE MATCHING TILE THICKNESS.	

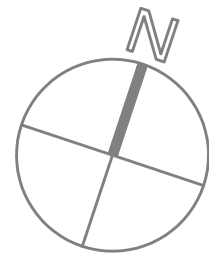
HOT WATER RADIATOR SCHEDULE						
SYMBOL	ACTIVE LENGTH MM (IN)	HEIGHT MM	E.W.T. °C	L.W.T. °C	CAPACITY KW	MANUFACTURER AND MODEL (BASIS OF DESIGN: GREENHECK)
 RH-1	690 (27)	710 (28)	60	43	0.427	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-2	1670 (46)	710 (28)	60	43	0.742	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-3	4520 (178)	IN MILLWORK	60	43	2.247	WALL FIN ECO-LINE B C3/4-435 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, ENCLOSED IN MILLWORK
 RH-4	2794 (110)	IN MILLWORK	60	43	1.380	WALL FIN ECO-LINE B C3/4-435 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, ENCLOSED IN MILLWORK
 RH-5	7620 (300)	IN MILLWORK	60	43	3.783	WALL FIN ECO-LINE B C3/4-435 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, ENCLOSED IN MILLWORK
 RH-6A	890 (35)	710 (28)	60	43	0.569	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-6B	890 (35)	-	60	43	0.569	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL INVERTED ENCLOSURE, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT, MOUNTED AT HIGH LEVEL
 RH-7	2060 (81)	710 (28)	60	43	1.323	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-8	1500 (59)	-	60	43	0.963	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL INVERTED ENCLOSURE, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT, MOUNTED AT HIGH LEVEL
 RH-9	610 (24)	710 (28)	60	43	0.393	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-10	2515 (99)	IN MILLWORK	60	43	1.250	WALL FIN ECO-LINE B C3/4-435 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, ENCLOSED IN MILLWORK
 RH-11	940 (37)	710 (28)	60	43	0.604	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-12	660 (26)	-	60	43	0.420	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL INVERTED ENCLOSURE, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT, MOUNTED AT HIGH LEVEL
 RH-13	610 (24)	710 (28)	60	43	0.393	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT
 RH-14	610 (24)	-	60	43	0.393	WALL FIN ECO-LINE WFB-S24 C3/4-433 2-6CL INVERTED ENCLOSURE, DOUBLE ROW FINNED TUBE RADIATOR, 610mm ENCLOSURE HEIGHT, MOUNTED AT HIGH LEVEL

FORCE FLOW HEATER SCHEDULE							
No.	E.W.T. °C	L.W.T. °C	CAPACITY KW (BTU/H)	ELECTRICAL (MAIN POWER)			
				MCOP	MCA	FLA	VOLTAGE
 FFH-1							
FFH-2	60	43	3.532 (12.05)	-	-	-	115V/1Ø/60Hz
							44 (97)
							TRANE MODEL: FFD030 HORIZONTAL CEILING CABINET 280CFM

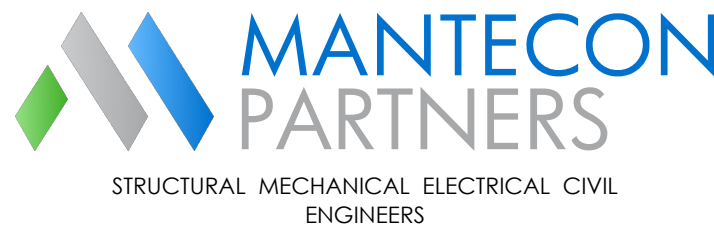
EXHAUST FAN SCHEDULE									
No.	AREA SERVED	AIRFLOW L/S	S.P. IN.WG.	ELECTRICAL		DRIVE	FAN RPM	OPERATING WEIGHT KG.	SONES
				HP	VOLTAGE				
EF-1	UNIVERSAL/ TODDLER WC	70.8	0.5	1/15	115V/1Ø/60Hz	DIRECT DRIVE	1225	-	4.9
									GREENHECK MODEL: SP-A390-VG DIRECT DRIVE BATHROOM EXHAUST FAN
EF-2	WC	141.6	0.5	1/15	115V/1Ø/60Hz	DIRECT DRIVE	1362	-	2.6
									GREENHECK MODEL: CSP-A390-VG DIRECT DRIVE CABINET FAN

PLUMBING FIXTURE CONNECTION SCHEDULE						
REFER	DESCRIPTION	SANITARY	SANITARY VENT	DHWS	DCWS	MANUFACTURER AND MODEL
 WC1	NON - BARRIER FREE, FLOOR MOUNTED AUTOMATIC FLUSH VALVE WATERCLOSET	75Ø (3"Ø)	38Ø (1-1/2"Ø)	-	25Ø (1"Ø)	AMERICAN STANDARD 3451001.020 FLOOR MOUNTED TOILET C/W CENTOCO SEAT: 1500STSCCFE-001 SEAT, SLOAN FLUSH VALVE: ROYAL 111 ESS-101-OR-HW AND SLOAN POWER KIT EL-154.
 WC2	BARRIER FREE, FLOOR MOUNTED AUTOMATIC FLUSH VALVE WATERCLOSET	75Ø (3"Ø)	38Ø (1-1/2"Ø)	-	25Ø (1"Ø)	AMERICAN STANDARD MADERA FLOOR MOUNTED TOILET C/W CENTOCO SEAT: 1500STSCCFE-001 SEAT, SLOAN FLUSH VALVE: ROYAL 111 ESS-101-OR-HW AND SLOAN POWER KIT EL-154.
 FA1	SINGLE WIDE WALL-HUNG LAVATORY, AUTOMATIC FAUCET	32Ø (1-1/4"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	BRADLEY EXPRESS TLX-1 WALL HUNG C/W ZURN Z86100-XL SINGLE BASIN METERING FAUCET.
 FA2	DOUBLE WIDE WALL-HUNG LAVATORY, AUTOMATIC FAUCET	32Ø (1-1/4"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	BRADLEY EXPRESS TLX-2 WALL HUNG C/W ZURN Z86100-XL SINGLE BASIN METERING FAUCET.
 FA3	TRIPLE WIDE WALL-HUNG LAVATORY, AUTOMATIC FAUCET	32Ø (1-1/4"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	BRADLEY EXPRESS TLX-3 WALL HUNG C/W ZURN Z86100-XL SINGLE BASIN METERING FAUCET.
 FA4	BARRIER FREE WALL HUNG, MANUAL FAUCET	32Ø (1-1/4"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	AMERICAN STANDARD LUCERNE WALL HUNG BARRIER FREE SINK C/W CHICAGO 420-T45E2805ABCP FAUCET, MCGUIRE 155A FIXTURE DRAIN, LFI165LKN3 SUPPLY AND 8872C P TRAP.
 S1	SINGLE COMPARTMENT, COUNTER MOUNTED, COMMERCIAL SINK	38Ø (1-1/2"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	FRANKE: LBS4808P-1-1 SINGLE COMPARTMENT COMMERCIAL COUNTER MOUNTED SINK, C/W Chicago 430-ABCP FAUCET, LAWLER 570-86820 MIXING VALVE.
 S2	DOUBLE COMPARTMENT, COUNTER MOUNTED, COMMERCIAL SINK	38Ø (1-1/2"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	FRANKE: ALBD40SP-1-1 DOUBLE COMPARTMENT COMMERCIAL COUNTER MOUNTED SINK, C/W Chicago 430-ABCP FAUCET, LAWLER 570-86820 MIXING VALVE.
 S3	TRIPLE COMPARTMENT, COUNTER MOUNTED, COMMERCIAL SINK	38Ø (1-1/2"Ø)	32Ø (1-1/4"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	FRANKE: LB16407CB-1 TRIPLE COMPARTMENT COMMERCIAL COUNTER MOUNTED SINK, C/W T&S BRASS B.0153, ADP12_B EASTYSTALL PRE-RINSE UNIT WITH WALL BRACKET FAUCET, LAWLER 570-86820 MIXING VALVE.
 S4	MOP BASIN, FLOOR MOUNT	75Ø (3"Ø)	38Ø (1-1/2"Ø)	13Ø (1/2"Ø)	13Ø (1/2"Ø)	STERN WILLIAMS SB-900-T-35-T-40-BP25Ø SINK C/W CHICAGO 897-RCF WALL HUNG FAUCET.
NFHB	NON-FREEZE HOSE BIBB	-	-	-	19Ø (3/4"Ø)	ZURN Z1320XL, NON FREEZE, ANTI SIPHON, WALL HYDRANT.
FD	FLOOR DRAIN	75Ø (3"Ø)	38Ø (1-1/2"Ø)	13Ø (1/2"Ø)	-	WATTS FD-100NH-C-A5-1-5-7
FFD	FUNNEL FLOOR DRAIN	75Ø (3"Ø)	38Ø (1-1/2"Ø)	13Ø (1/2"Ø)	-	WATTS FD-100NH-EG-S-6-7-1
EW	EYEWASH STATION	75Ø (3"Ø)	38Ø (1-1/2"Ø)	13Ø (1/2"Ø)	-	-
 MV	MIXING VALVE					WATTS/ANCON HY-300-2-VB

NOTES: THE CONTRACTOR SHALL SUPPLY AND INSTALL THE ACESSORIES AND TRIMS ONLY FOR ALL FIXTURES SUPPLIED AND INSTALLED BY GENERAL TRADES (I.E. SOLID SURFACE, STAINLESS STEEL, ETC.)



PROJECT NORTH



15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905)648-0373 www.manteconpartners.com

ASSEMBLY SCHEDULE

1. USE WATER RESISTANT DRYWALL IN ALL WET AREAS - REFER TO SPECIFICATION 09 21 00, 2.13

2. PROVIDE CONTINUOUS PLYWOOD BLOCKING BEHIND ALL MILLWORK CABINETS, SUSPENDED ITEMS, TELEVISIONS ETCO (TYP)

3. ALL INTERNAL PARTITIONS EXTEND TO U/S DECK ABOVE UNLESS NOTED OTHERWISE.

4. PROVIDE FIRE RESISTANCE RATINGS AS INDICATED ON DRAWINGS

INTERIOR PARTITIONS

190mm CMU PARTITION (CMU-01)

1 LAYER 15.9mm TYPE X GYPSUM WALLBOARD
92mm STEEL STUDS
ACOUSTICAL FIRE BATT INSULATION
1 LAYER 15.9mm TYPE X GYPSUM WALLBOARD
EXTEND TO U/S OF SLAB UNO

ULO W407 - capable of achieving 1HR FRR where scheduled

FURRED PARTITIONS

FURRED WALL FW1
1 LAYER 15.9mm TYPE X GYPSUM WALLBOARD
92mm STEEL STUDS

FURRED WALL FW2
140mm GLAZED CMU PARTITION (GLB)

FURRED WALL FW3
90mm GLAZED CMU PARTITION (GLB)

EXTERIOR PARTITIONS

EW1 - Min R-Value R19ci
190mm CMU
AIR/VAPOUR BARRIER
14mm MINERAL WOOL INSULATION
25mm AIR SPACE
90mm BRICK VENEER CLADDING (CMU-01)
(AVB-01)
(INS-03)
(BRK-01)

EW2 - Min R-Value R19ci
190mm CMU
AIR/VAPOUR BARRIER
14mm MINERAL WOOL INSULATION
WEATHER RESISTIVE BARRIER
25mm AIR SPACE
PREFINISHED METAL CLADDING (CMU-01)
(AVB-01)
(INS-03)
(WRB-01)
(MTL-01)

Foundation Wall FD1 - Min R-Value R20
100mm RIGID INSULATION (INS-01)
DAMP-PROOFING (RWP-01)
425mm POURED CONCRETE (and/or as per structural)

Foundation Wall FD2 - Min R-Value R20
100mm RIGID INSULATION (INS-01)
DAMP-PROOFING (RWP-01)
200mm POURED CONCRETE (and/or as per structural)

Foundation Wall FD2a
As above without insulation

FLOOR ASSEMBLY

Floor F1 (min R-18.7 value)
FLOOR FINISH AS SCHEDULED
125mm POURED IN PLACE CONCRETE SLAB
CONTINUOUS BELOW GRADE VAPOUR BARRIER (VB-01)
100mm CONTINUOUS BELOW SLAB RIGID INSULATION (INS-01)
ENGINEERED BASE/GRANULAR FILL

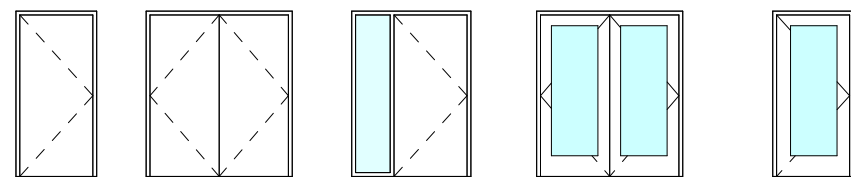
ROOF ASSEMBLIES

Roof R1 (min R-35ci)
MODIFIED BITUMEN CAP & BASE SHEET (RM-01)
ASPHALT IMPREGNATED OVERLAY BOARD
TAPERED MINERAL WOOL INSULATION TO MAKE UP SLOPE (INS-04b)
75mm DUAL DENSITY MINERAL WOOL INSULATION (INS-04b)
100mm CONTINUOUS POLYISO INSULATION (INS-04a)
CONTINUOUS SELF ADHERED VAPOUR BARRIER (VB-02)
16mm GYPSUM SHEATHING
STEEL ROOF DECK & SUPPORT STRUCTURE (see structural)

Roof R2 (Min R-35ci)
PREFINISHED STANDING SEAM METAL ROOF (MTL-02)
CONTINUOUS ROOFING UNDERLAYMENT (WRB-02)
16mm PLYWOOD SHEATHING
150mm (8") POLYISO RIGID INSULATION (INS-04)
CONTINUOUS AIR/VAPOUR BARRIER (AVB-01)
16mm PLYWOOD SHEATHING
PRE-ENGINEERED WOOD TRUSS FRAMING (see structural)
1 LAYER 16mm TYPE X GWB CEILING FINISH (refer to RCPs)

Door Schedule

Door No.	Room	Type Mark	Height	Width	Door Mat	Finish	Frame Material	Frame Fin.	Fire Rating	Card Reader	Panio Hardware	Comments
D101a	Shared Vestibule Entry (East)	E	2469	965	ALUM	-	ALUM	-	45 min	yes	yes	Autodoor Operator, Intercom, Door Closer
D101b	Shared Vestibule Entry (East)	E	2469	965	ALUM	-	ALUM	-	45 min		yes	
D102	Shared Vestibule (Interior)	E	2135	965	ALUM	-	ALUM	-		yes		Autodoor Operator, Intercom
D103	Shared Vestibule Entry (West)	E	2469	965	ALUM	-	ALUM	-	45 min	yes		Door closer
D101a	South Vestibule (Exit)	E	2149	965	ALUM	-	ALUM	-		yes	yes	Autodoor Operator, Intercom
D101b	South Vestibule (Exit)	E	2149	964	ALUM	-	ALUM	-		yes	yes	Autodoor Operator, Intercom
D12	Shared Infant/Toddler Outdoor Area	E	2134	965	HM	PT	HM	PT		yes		
D135a	Existing School Main Entrance	E	2134	965	HM	PT	HM	PT	45 min	yes	yes	Autodoor Operator, Intercom, Door Closer
D135b	Existing School Main Entrance	E	2134	965	HM	PT	HM	PT	45 min		yes	
D137	Office	O	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D138	Servery	C	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D139	Toddler Room	C	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D139b	Toddler Closet	B	2134	1422	HM	PT	HM	PT				
D139c	Toddler to Preschool 1	A	2134	965	HM	PT	HM	PT				
D140	Toddler WC	A	2134	965	HM	PT	HM	PT				
D141	Preschool Room 1	O	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D141b	Preschool Closet	B	2134	1829	HM	PT	HM	PT				
D142	Preschool Room 2	O	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D142b	Preschool 2 Closet	B	2134	1829	HM	PT	HM	PT				
D143a	Preschool WC	A	2134	965	HM	PT	HM	PT				
D143b	Preschool WC	A	2134	965	HM	PT	HM	PT				
D144	Water Meter Closet	B	2134	1422	HM	PT	HM	PT				
D145	Utility Room	A	2134	965	HM	PT	HM	PT				Door closer
D147	Infant Room	O	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D148	Infant WC	A	2134	965	HM	PT	HM	PT				
D149	Rest Area	A	2134	965	HM	PT	HM	PT				
D150	Staff Lounge	C	2134	965	HM	PT	HM	PT				lockdown blind @ sidelite
D151	Electrical Room	B	2134	1422	HM	PT	HM	PT				
D152	Laundry / Storage	A	2134	965	HM	PT	HM	PT				
D153	Universal WC	A	2134	965	HM	PT	HM	PT				Autodoor Operator



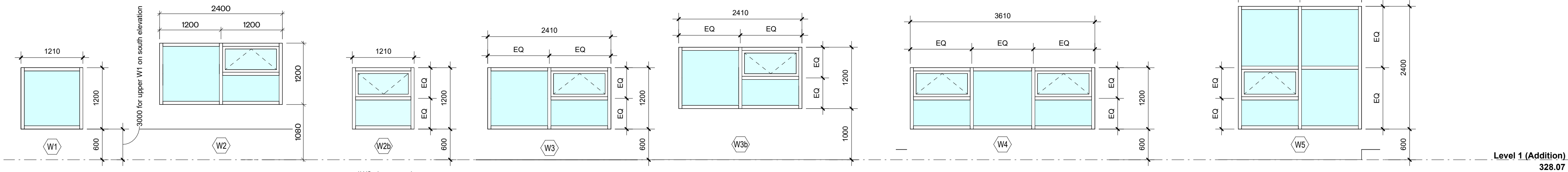
NOTE: All glazing to be tempered
NOTE: All fire rated assemblies to be fire-rated glass
NOTE: All HM frames to be 2" profile
NOTE: All gates to be provided with finger guards.

Room Finish Schedule					
Room No.	Room Name	Wall Finish	Floor Finish	Base Finish	Ceiling Finish
125	Classroom (Former Child Care Room)	PT	RES-1	RB	ACT-1
135	Shared Vestibule	PT	POR	POR	EXP
136	Corridor	PT	POR	POR	ACT-1
137	Office	PT	RES-1	RB	ACT-1
138	Servery	PT	POR	POR	ACT-2
139	Toddler Room	PT	RES-1	RB	GWB/ACT-1
139b	Toddler Closet 139b	PT	RES-1	RB	ACT-1
140	Toddler WC/ Change	PT	RES-2	RB	ACT-2
141	Preschool Room 1	PT	RES-1	RB	GWB/ACT
141b	Preschool 1 Closet 141b	PT	RES-1	RB	ACT-1
142	Preschool Room 2	PT	RES-1	RB	GWB/ACT-1
142b	Preschool 2 Closet 142b	PT	RES-1	RB	ACT-1
143	Preschool WC	PT	RES-2	RB	ACT-2
144	Vestibule	PT	POR	POR	ACT-1
145	Utility Room	PT	SCON	RB	EXP
146	Outblies	PT	POR	POR	ACT-1
147	Infant Room	PT	RES-1	RB	ACT-1
148	Infant WC	PT	RES-2	RB	ACT-2
149	Rest Area	PT	RES-1	RB	ACT-1
150	Staff Room	PT	RES-1	RB	ACT-1
151	Electrical	PT	RES-1	RB	EXP
152	Laundry/Storage	PT	RES-2	RB	ACT-2
153	Universal WC	PT	POR	POR	ACT-2

WINDOW SCHEDULE

All exterior window glazing to have bird-friendly Ceramic Frit (CF) pattern - refer to Specification

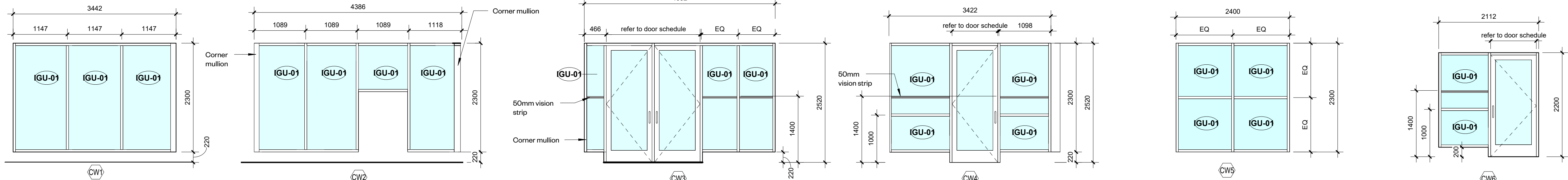
All exterior glazing to be IGU-01, refer to specification for make-up



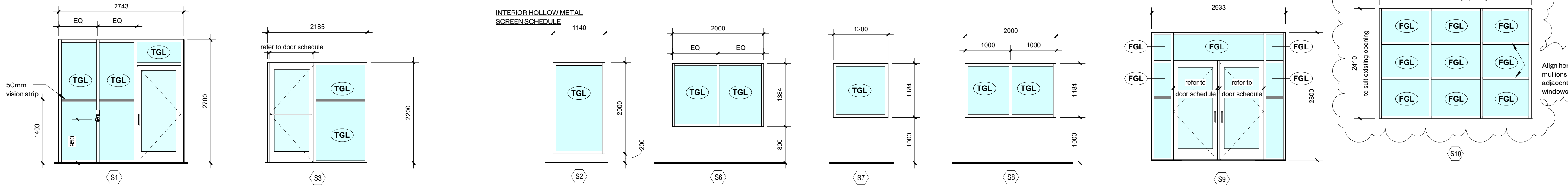
EXTERIOR ALUMINUM SCREEN SCHEDULE

All exterior glazing to have bird-friendly Ceramic Frit (CF) pattern - refer to Specification

All exterior glazing to be IGU-01, refer to specification for make-up



INTERIOR ALUMINUM SCREEN SCHEDULE



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Rev	Description	Date
7	Issued for 80% Review	30 Nov 2022
9	Issued for 80% Cost Estimate and Review	23 Dec 2022
15	Issued for 90% Client Review	22 Dec 2023
16	Issued for Permit	26 Jul 2024
17	Permit Response	07 Oct 2024
18	Issued for Tender	10 Oct 2024
20	Addendum 01	06 Nov 2024

Materials Legend

ACT	Acoustic Ceiling Tile
ALUM	Aluminum
BRK	Brick
CER	Ceramic Tile
CMU	Concrete Masonry Unit
EXIST	Existing
EXP	Exposed
FGL	Fire-Rated Glass
GF	Glazing Film
GLB	Glazed CMU
GWB	Gypsum Wallboard
PLY	Fire Rated Plywood
POR	Porcelain Tile
PLAM	Plastic Laminate
PT	Paint Finish
RB	Rubber Base
RES	Resilient Sheet Flooring
SCON	Sealed Concrete
SS	Stainless Steel
TGL	Tempered Glass
WD	Solid Wood
WV	Wood Veneer

WORKSHOP

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CSV L'Harmonie Daycare Addition

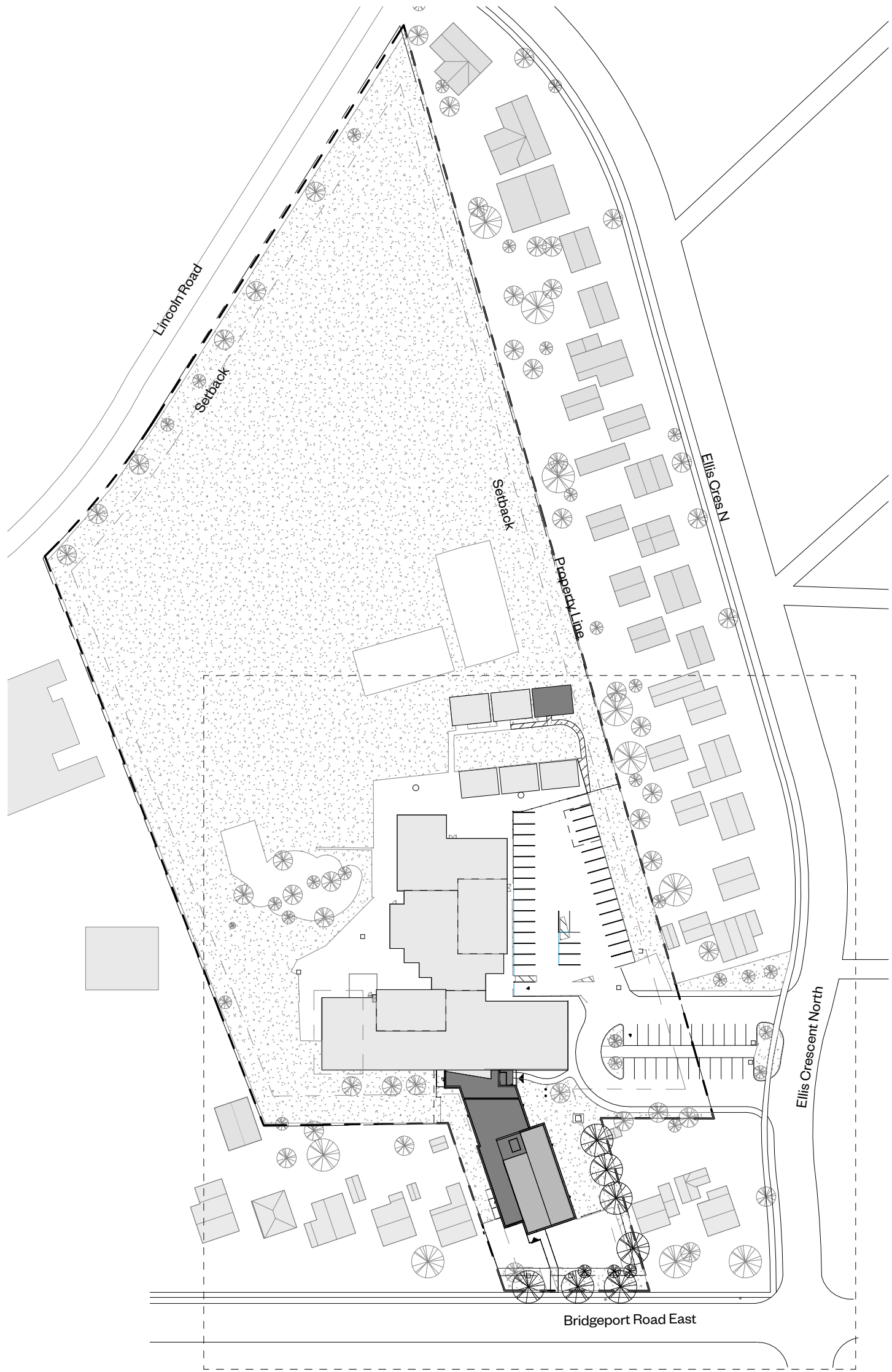
158 Bridgeport Road East
Waterloo

PROJECT CODE:	SCALE:
2207	As indicated
DATE:	STATUS:
06 November 2024	Addendum 01

Schedules

drawing number

A0.1



2 Site Plan
1 : 1200

Zoning Info subject to: by-law 2018-50 current zoning: S			
Lot Area: 29,182 m ²			
Regulation	Required	Existing	Proposed
Max. lot coverage	60%	8%	10%
Side setback (east)	5m	38m	13.2m
Side setback (west)	5m	19.6m	5.2m
Front setback	7.5m	55m	10.4m
Rear setback	7.5m	144m	unchanged
Parking	school daycare total	42 18 60	42 18 60
Max. building height	14m	7.1m	unchanged

Site Plan Notes	
Note	Description
S1	Existing sign to be uninstalled and relocated as indicated.
S2	Relocate existing sign to this location. See also Electrical.
S3	New 1500mm wide asphalt walkway - see Landscape
S4	Storage shed - see Landscape.
S5	Perimeter fence around play areas typ (min 1500mm height) - see Landscape
S6	Existing tree to be protected - see Landscape
S7	New concrete walkway - provide flush transition to existing municipal sidewalk
S8	New trees - see Landscape
S9	Provide 2 new flagpoles c/w foundations
S10	Remove existing fence and relocate/modify as shown
S11	Frost slab - see Structural
S12	Diagonal yellow painted stripes on asphalt
S13	Existing fence and gate to remain
S14	1.8m wood privacy fence - see Landscape



1 Partial Site Plan
1 : 300

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Rev	Description	Date
1	Issued for SPA Pre-Consultation	22 June 2022
2	Issued for 30% Cost Estimate	24 June 2022
5	Issued for Review	18 Oct 2022
6	Issued for Coordination	07 Nov 2022
7	Issued for 60% Review	30 Nov 2022
9	Issued for 80% Cost Estimate and Review	23 Dec 2022
10	Issued for SPA Submission	09 Feb 2023
11	Issued for SPA -R1	23 Jun 2023
15	Issued for 90% Client Review	22 Dec 2023
16	Issued for Permit	26 Jul 2024
17	Permit Response	07 Oct 2024
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20	Addendum 01	06 Nov 2024

Site Plan Legend

- (E) Existing
- ▲ Exit
- CB Catch Basin
- LS Light Standard
- MH Man Hole
- 1829 Existing dimension
- Tree Protection Fence Vertical Hoarding - see Landscape & Tree Protection Plan
- New concrete

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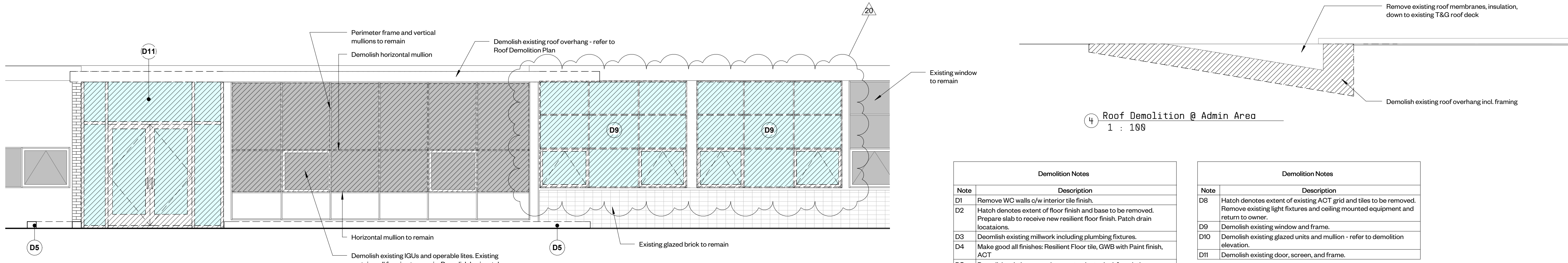
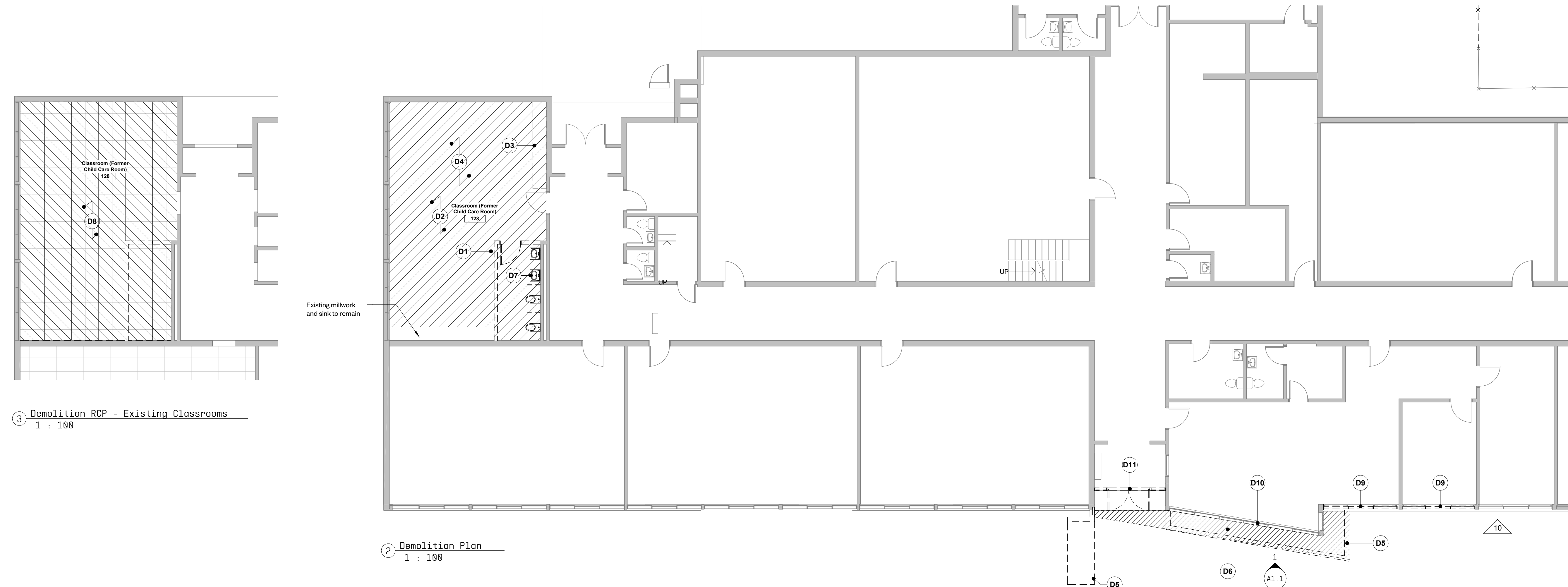
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CSV L'Harmonie Daycare Addition

158 Bridgeport Road East
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2207	As indicated
DATE :	STATUS :
06 November 2024	Addendum 01

Site Plan



Demolition Notes	
Note	Description
D1	Remove WC walls c/w interior tile finish.
D2	Hatch denotes extent of floor finish and base to be removed. Prepare slab to receive new resilient floor finish. Patch drain locations.
D3	Demolish existing millwork including plumbing fixtures.
D4	Make good all finishes: Resilient Floor tile, GWB with Paint finish, ACT
D5	Demolish existing poured concrete planter incl. foundation.
D6	Demolish existing fascia, soffit, and roof structure as needed to facilitate connection to new addition
D7	Remove all fixtures, cap all mech services and make good penetrations.

Demolition Notes	
Note	Description
D8	Hatch denotes extent of existing ACT grid and tiles to be removed. Remove existing light fixtures and ceiling mounted equipment and return to owner.
D9	Demolish existing window and frame.
D10	Demolish existing glazed units and mullion - refer to demolition elevation.
D11	Demolish existing door, screen, and frame.

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- Demolition Legend**
- Existing CMU partition to be demolished
 - Existing wall partition system to be demolished
 - Existing element to be demolished
 - Approximate extent of flooring to be removed
 - Approximate extent of ceiling to be removed
 - Existing door leaf and frame to be demolished

WORKSHOP

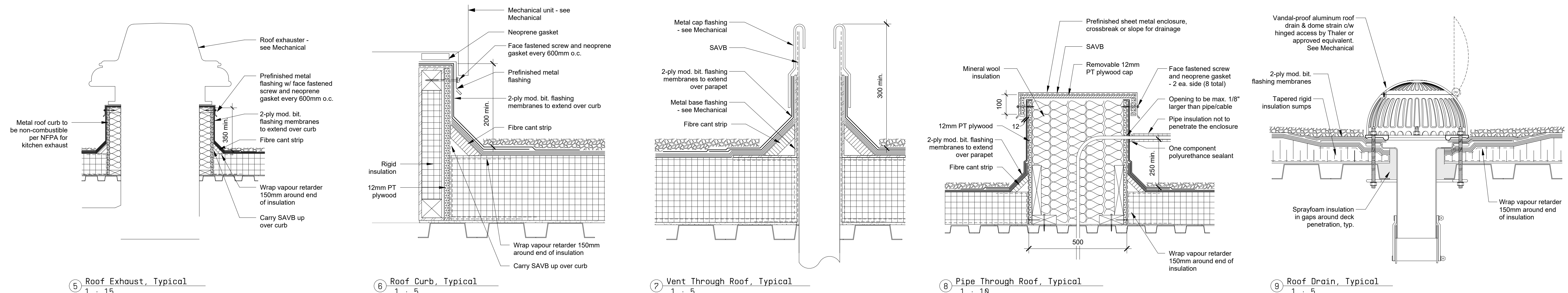
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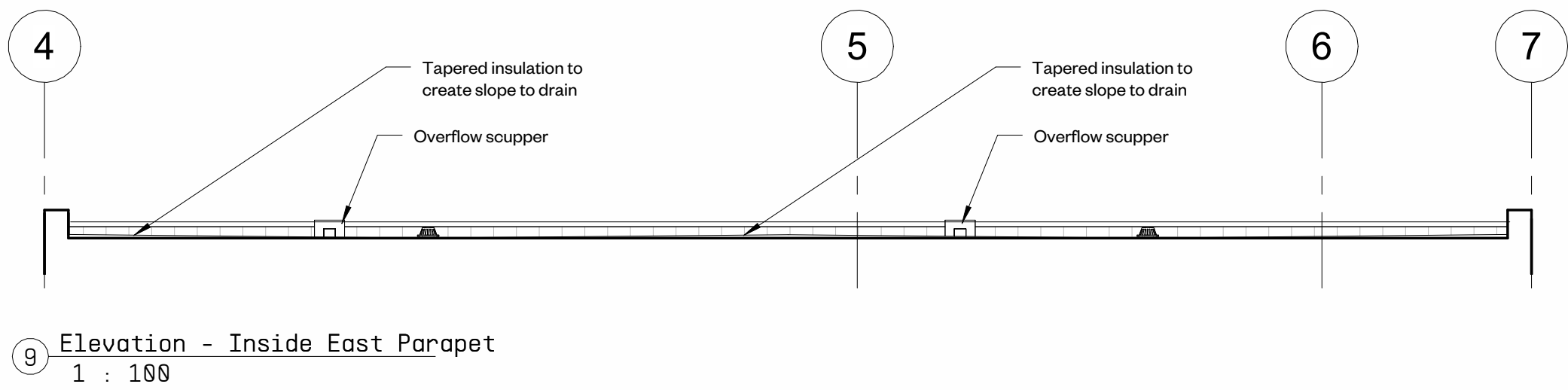
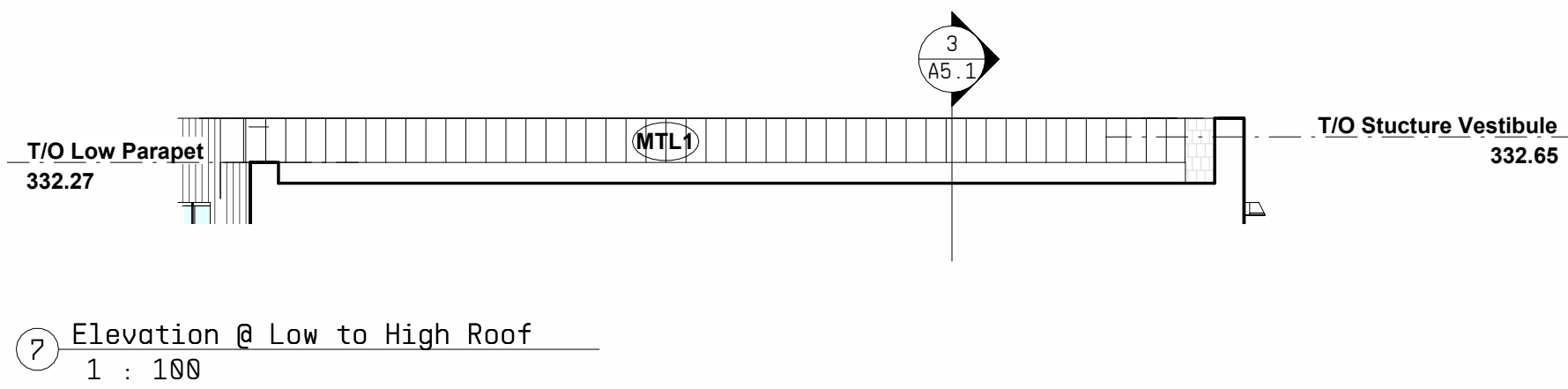
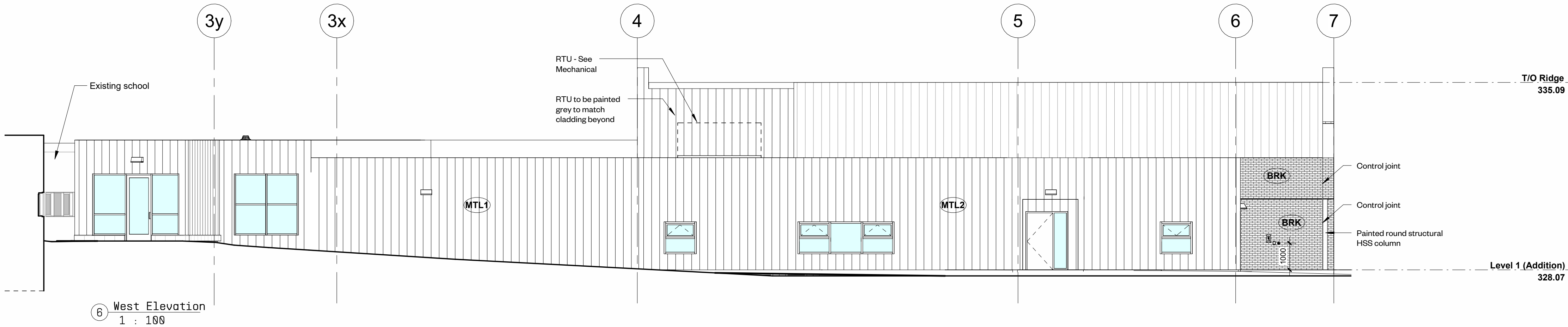
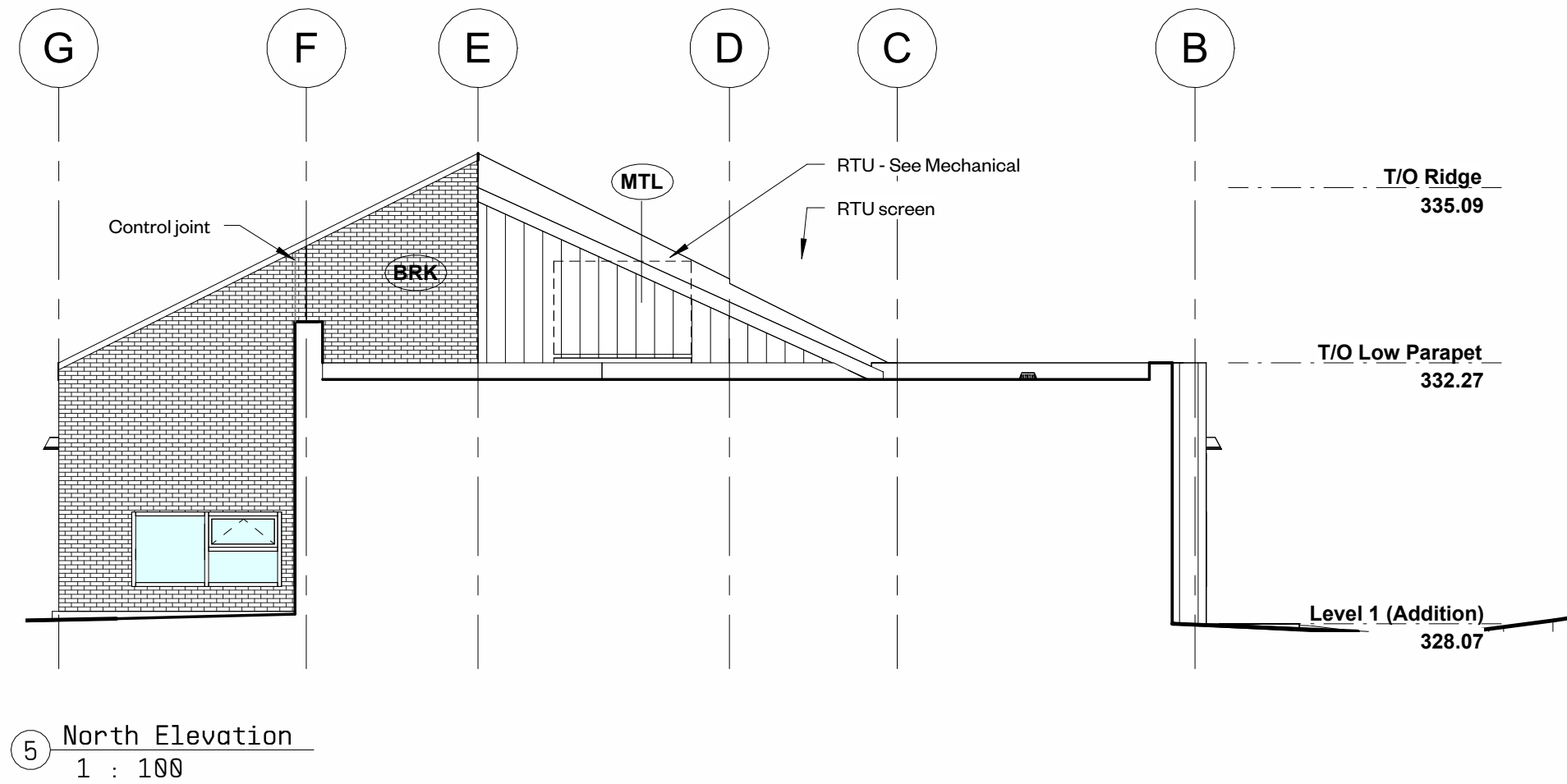
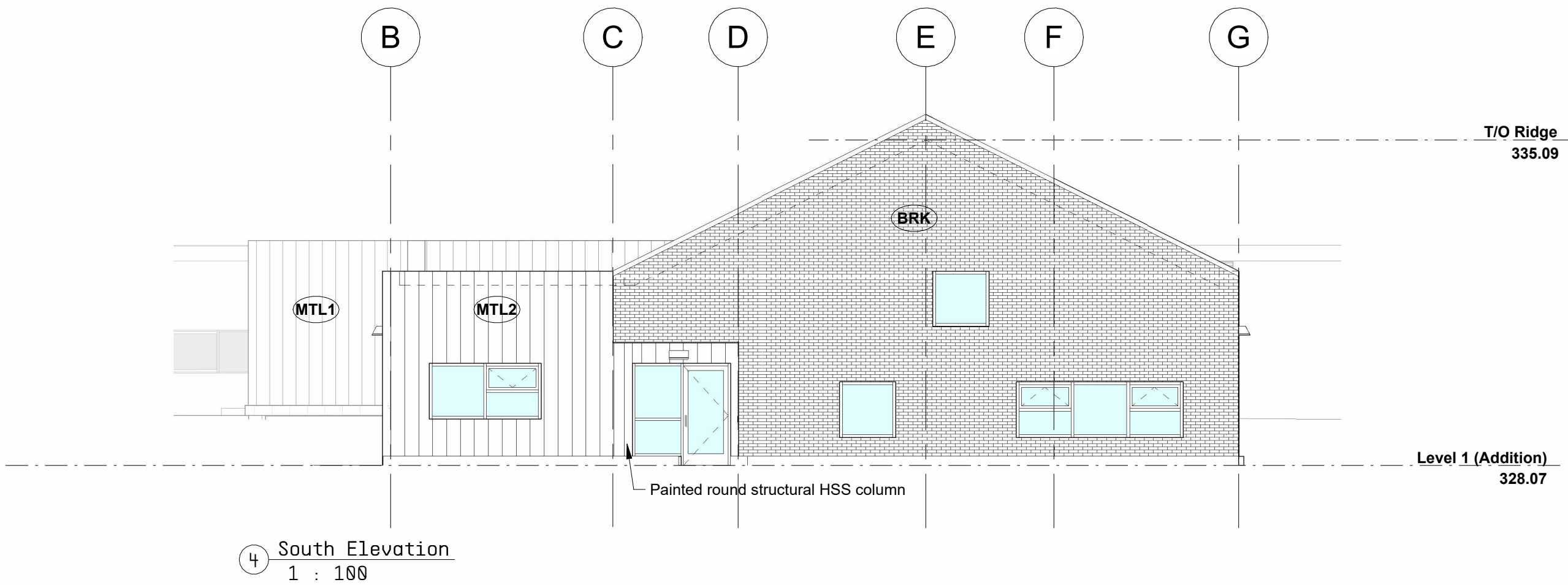
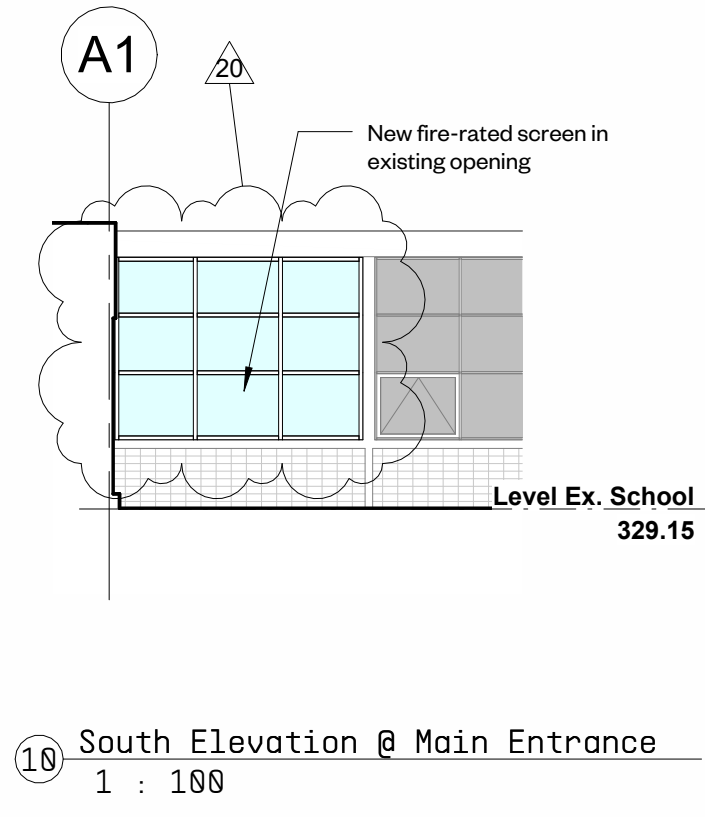
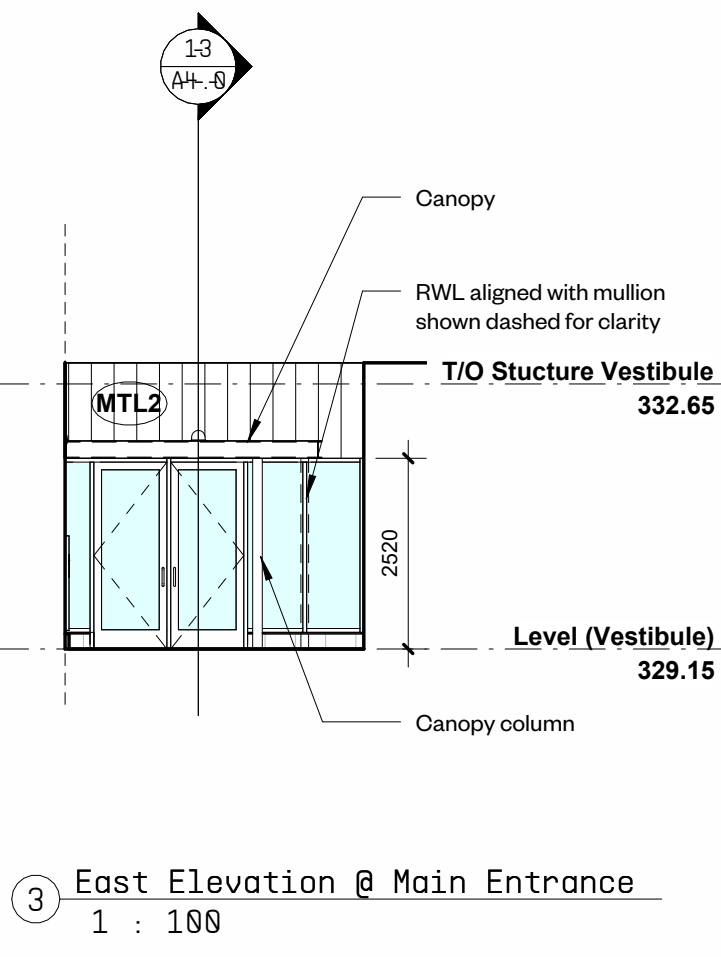
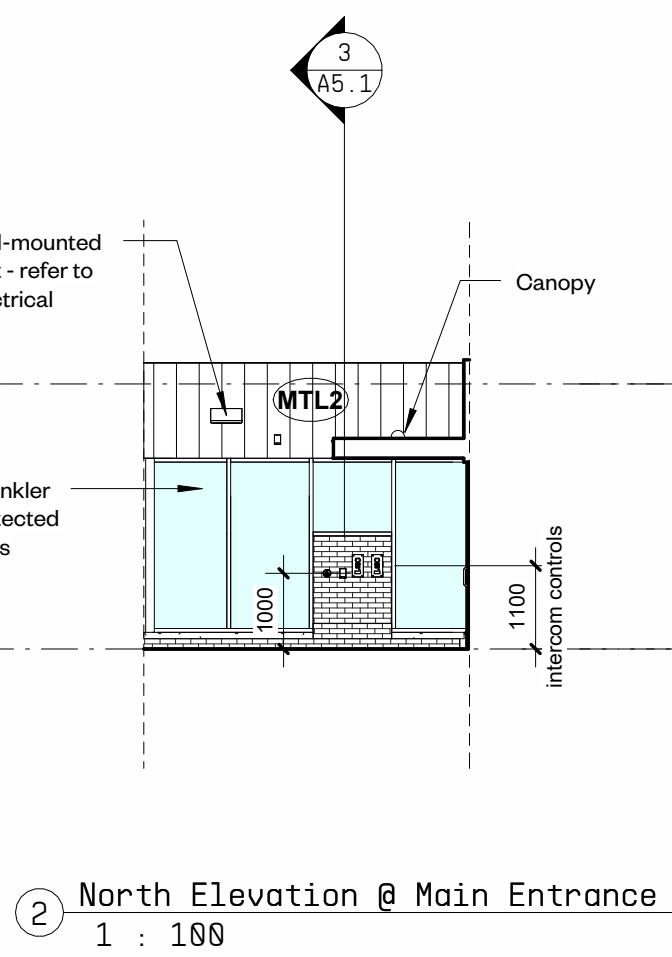
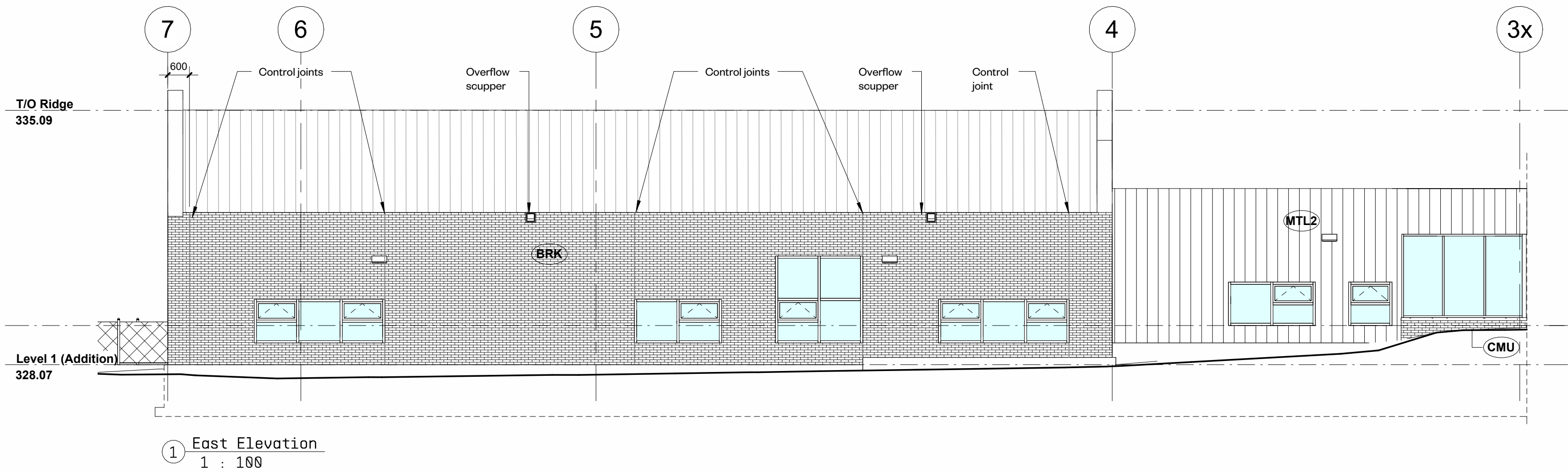
CSV L'Harmonie Daycare Addition

158 Bridgeport Road East
Waterloo

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2207	As indicated
DATE:	STATUS:
06 November 2024	Addendum 01

Demolition Plans/RCP/Elevation & Typical Roof Details





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Rev	Description	Date
6	Issued for Coordination	07 Nov 2022
7	Issued for 60% Review	30 Nov 2022
9	Issued for 80% Cost Estimate and Review	23 Dec 2022
10	Issued for SPA Submission	09 Feb 2023
11	Issued for SPA -R1	23 Jun 2023
15	Issued for 90% Client Review	22 Dec 2023
16	Issued for Permit	26 Jul 2024
17	Permit Response	07 Oct 2024
18	Issued for Tender	10 Oct 2024
20	Addendum 01	06 Nov 2024

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CSV L'Harmonie Daycare
Addition

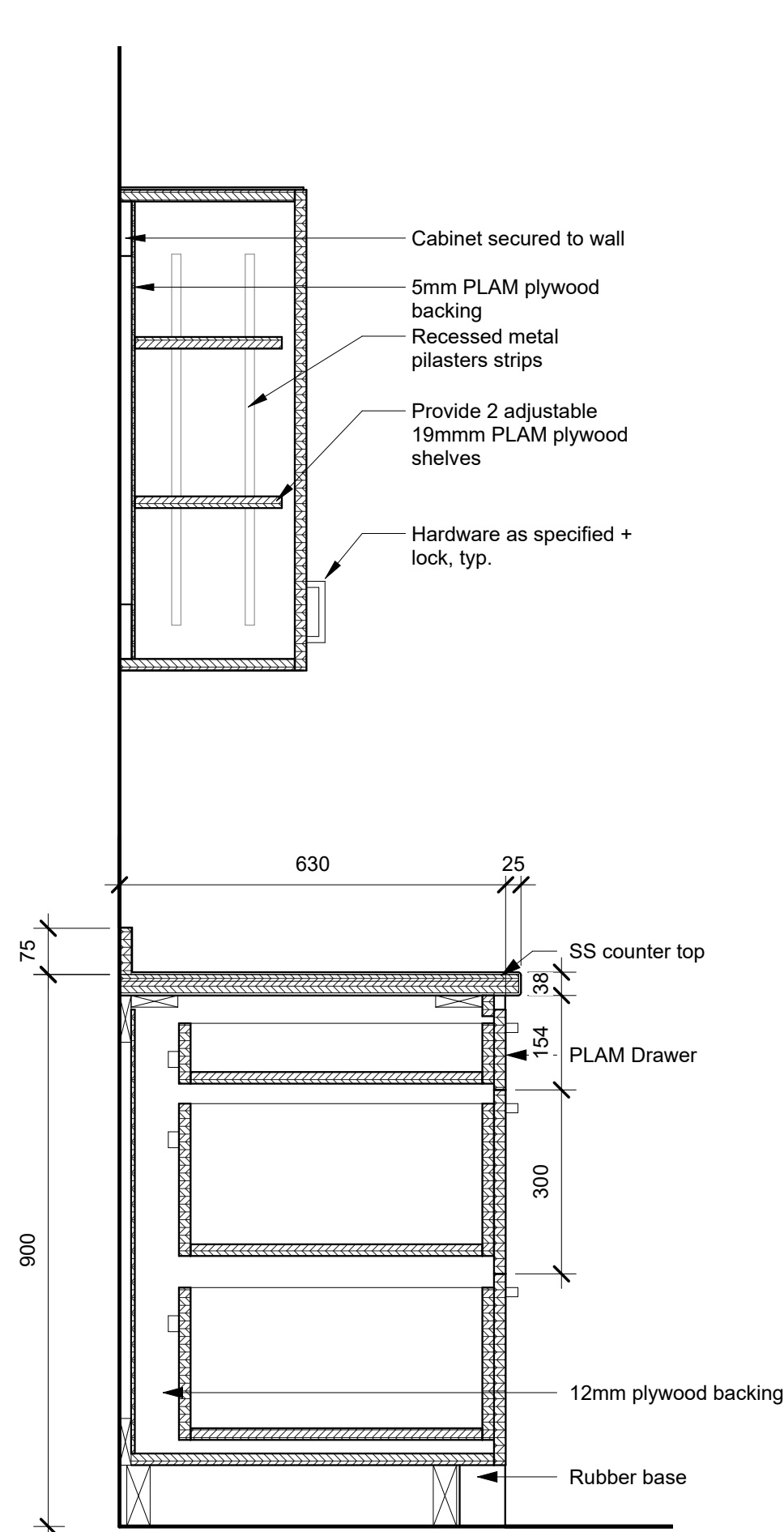
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2207	1:100
DATE:	STATUS:
06 November 2024	Addendum 01

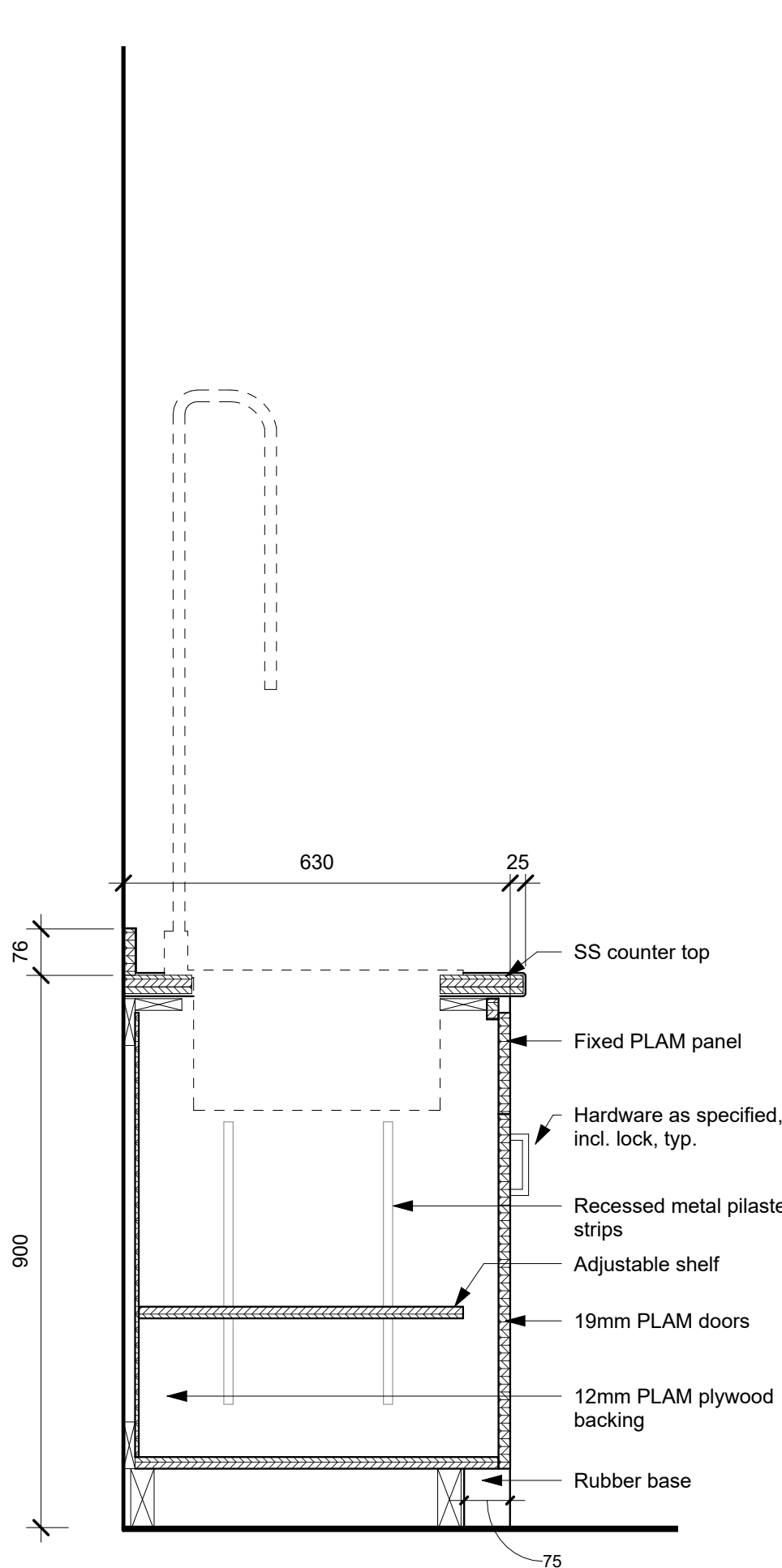
Exterior Elevations

drawing number

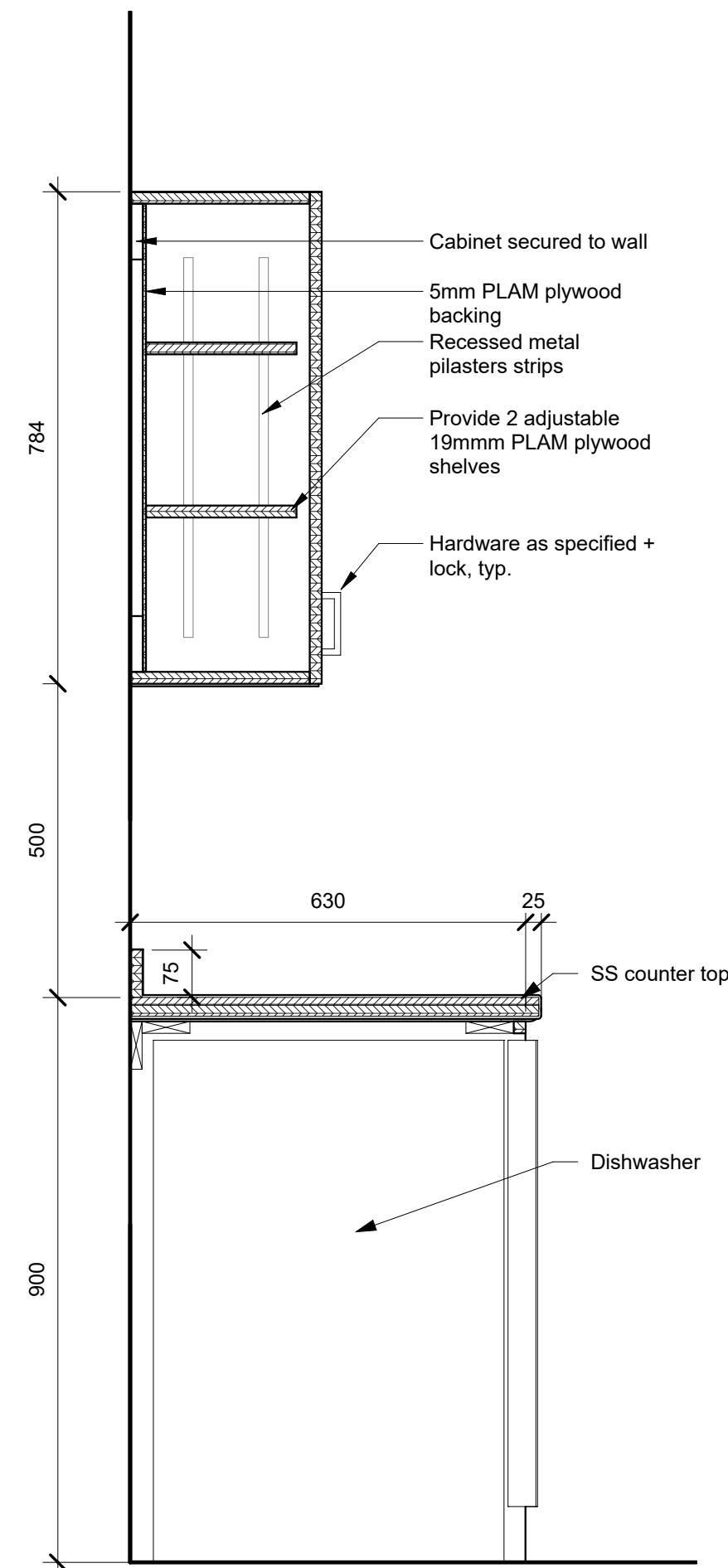
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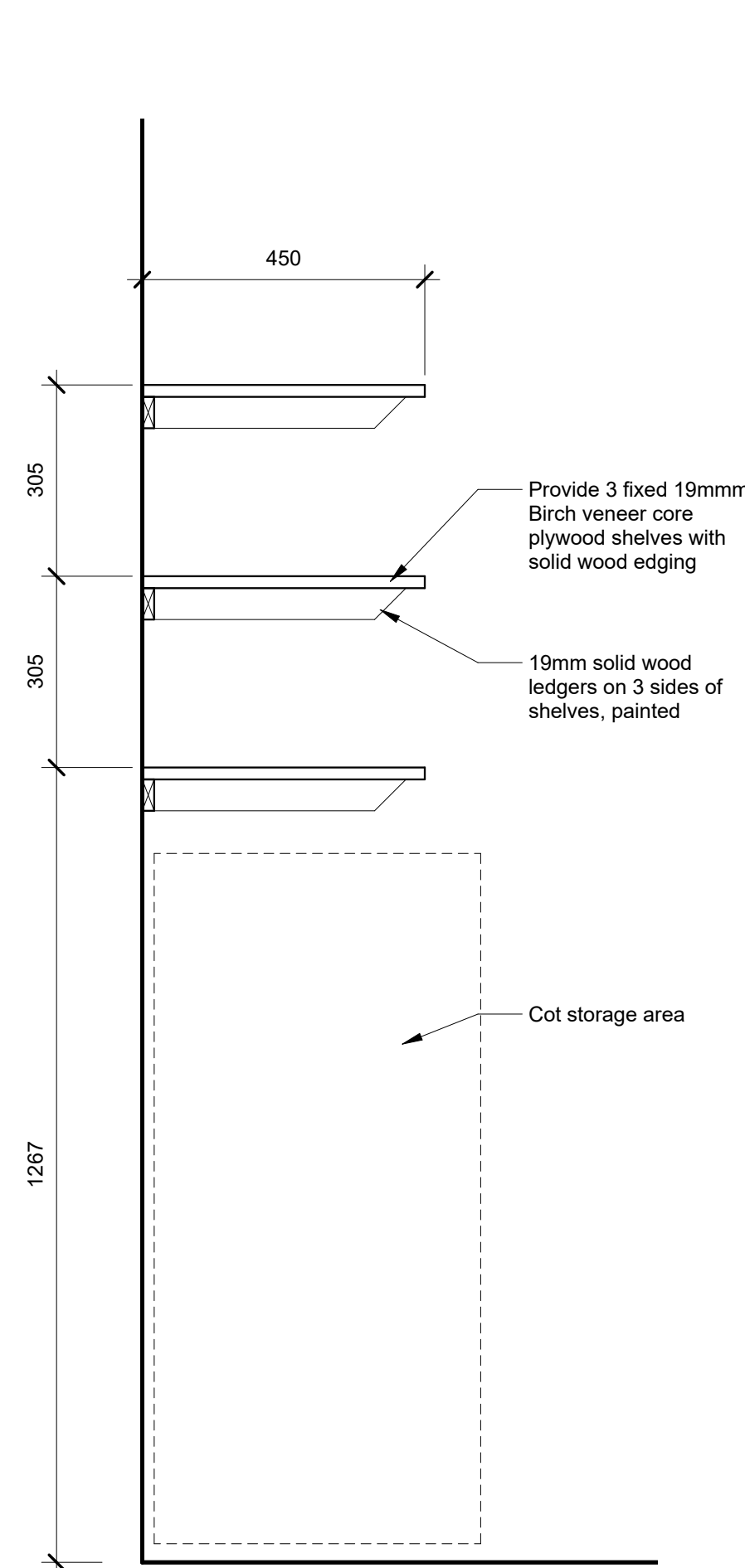
① MW2 - Section Through Drawers
1 : 10



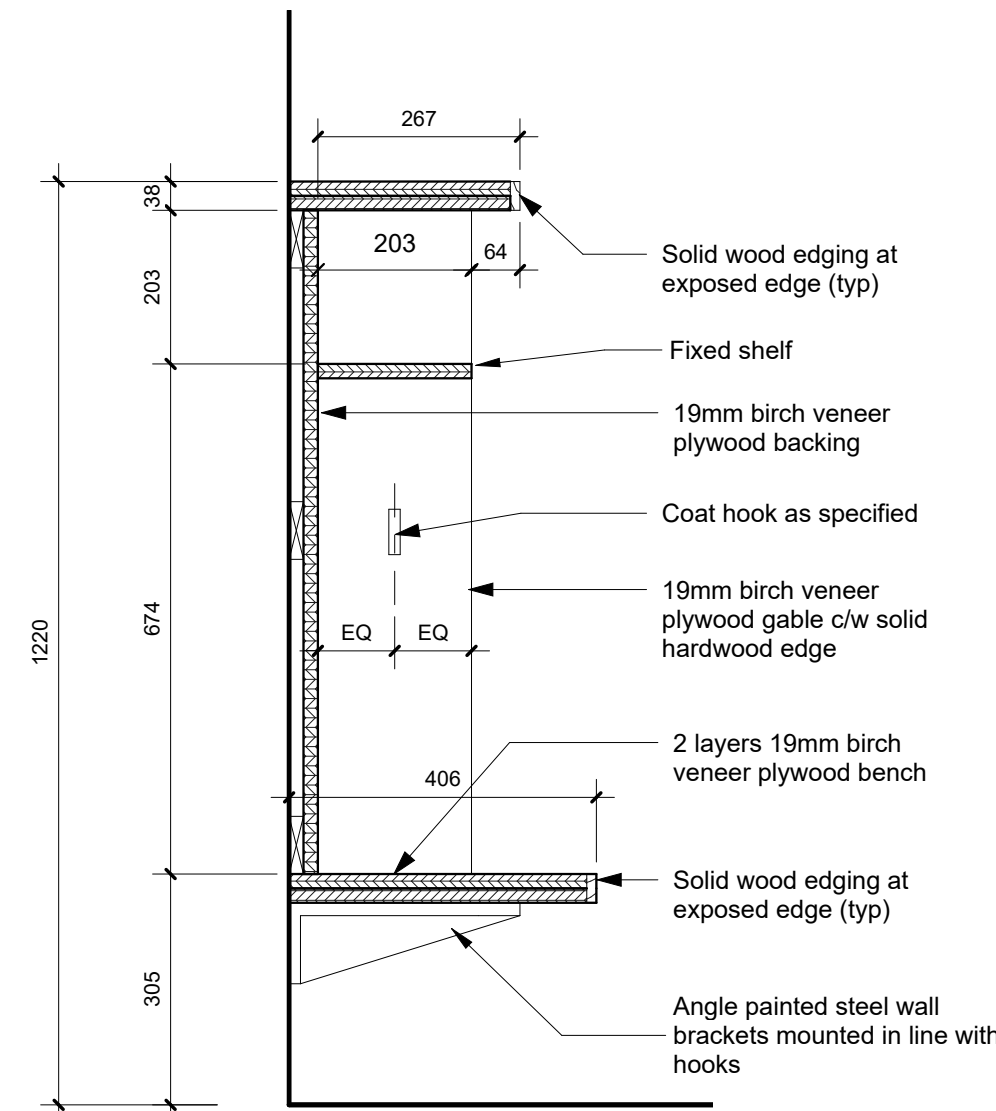
② MW2 - Section Through Dishwash Sink
1 : 10



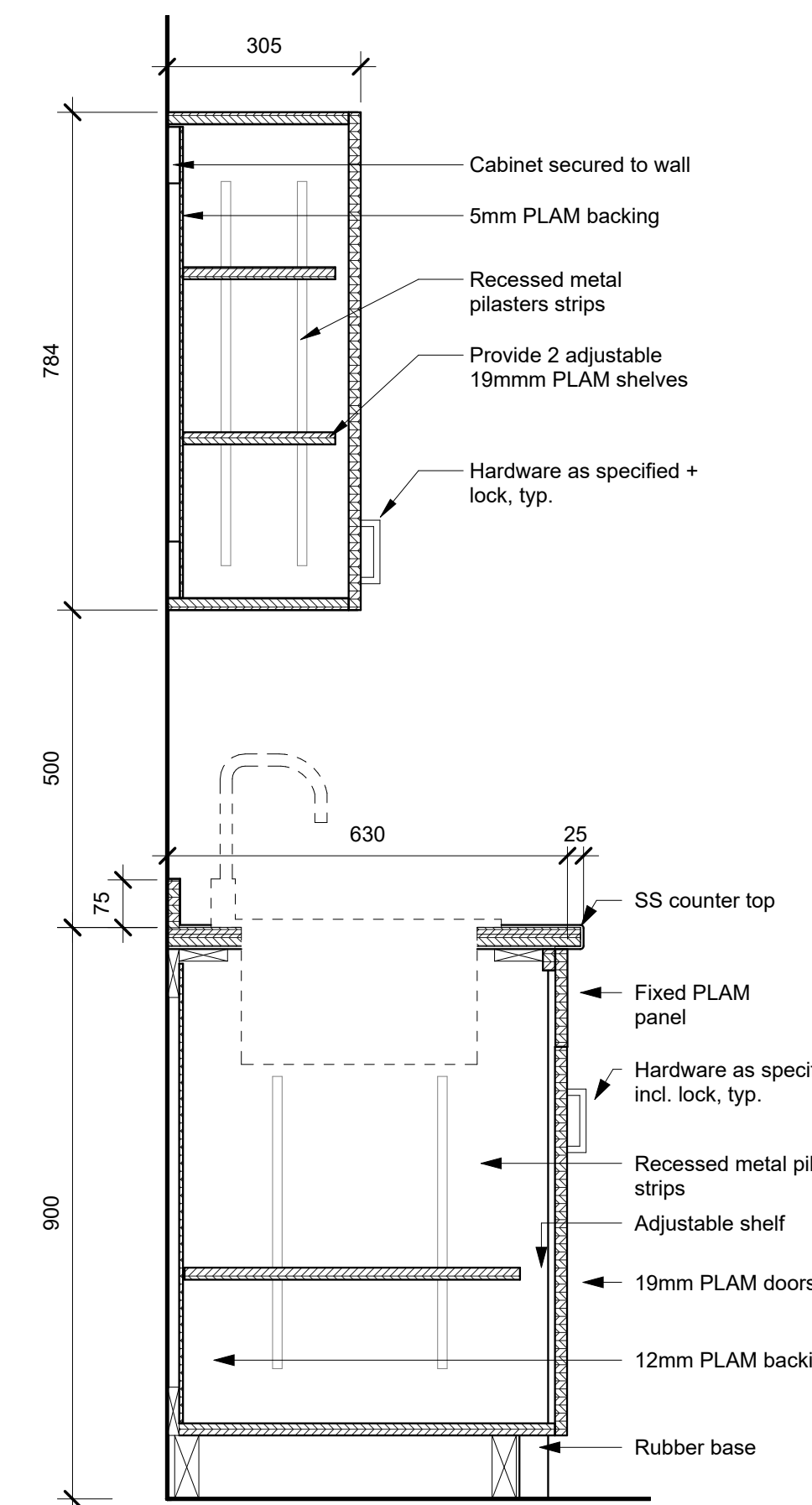
③ MW2 - Section Through Dishwasher
1 : 10



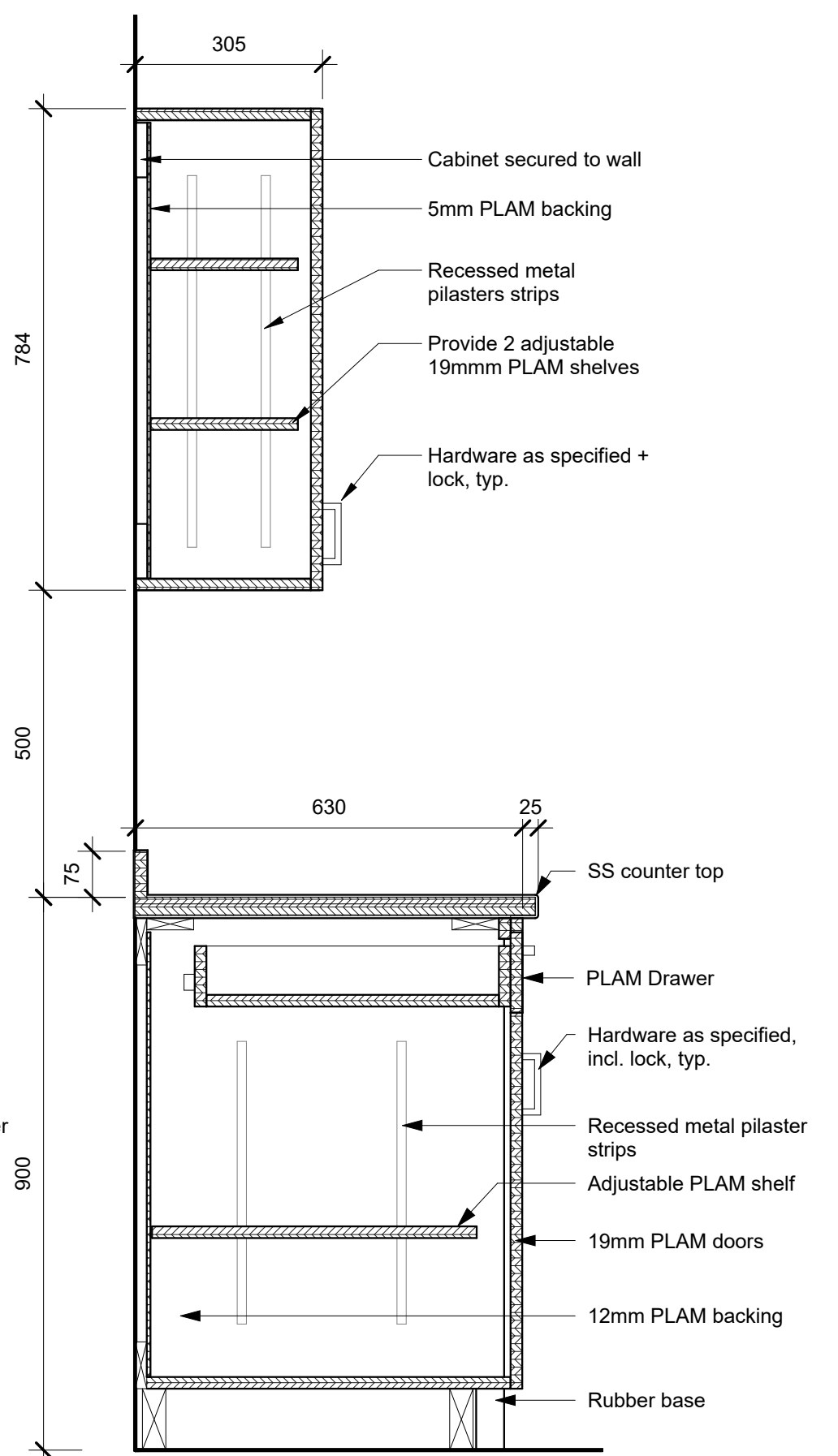
④ Section Through Closet Shelves
1 : 10



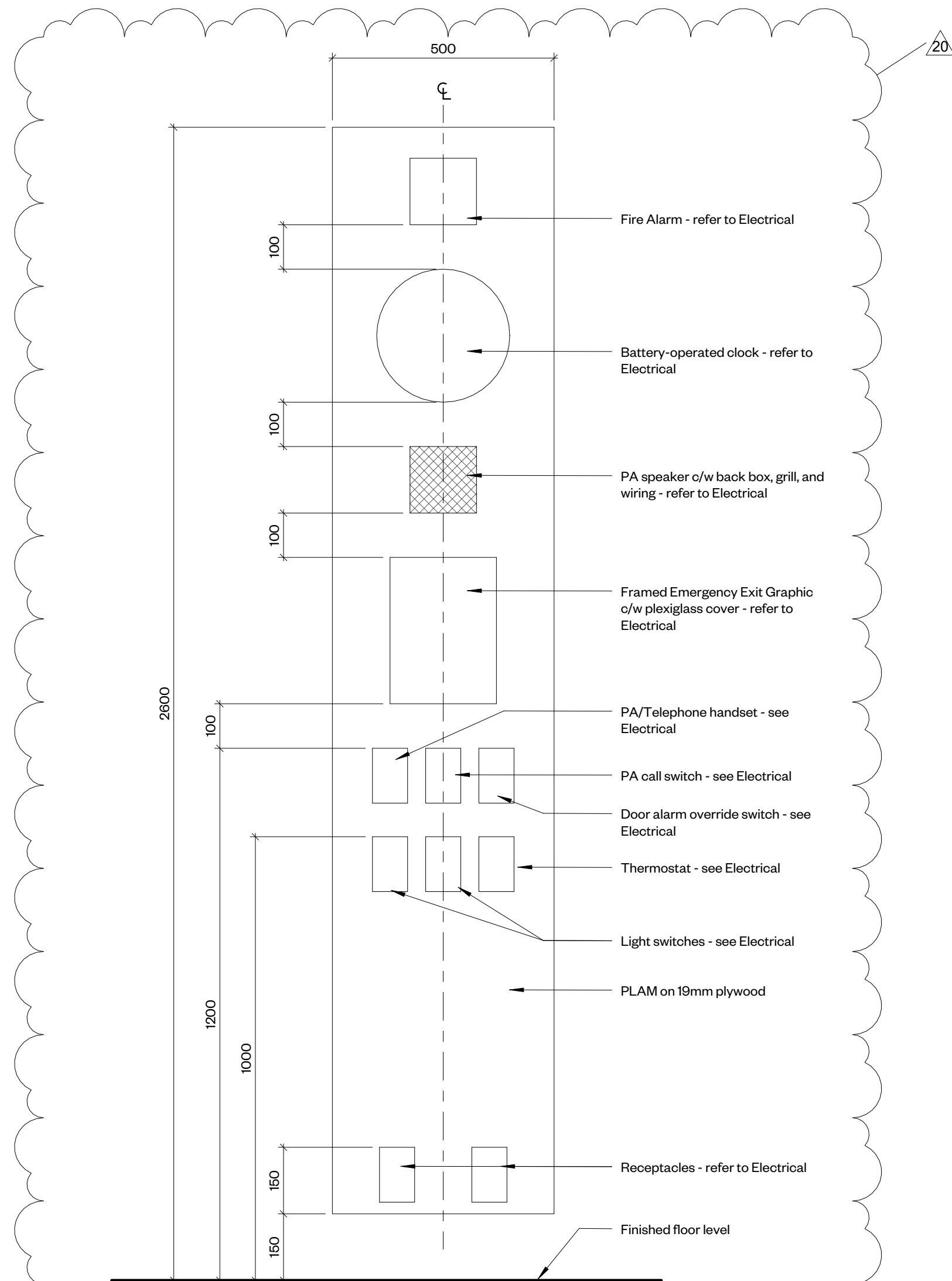
⑤ Typ. Section through Cubby
1 : 10



⑥ MW1 Section 1 - Through Food Prep Sink
1 : 10



⑦ MW1 Section 2
1 : 10



⑧ Classroom Control Panel
1 : 10

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Rev	Description	Date
16	Issued for Permit	26 Jul 2024
18	Issued for Tender	10 Oct 2024
20	Addendum 01	06 Nov 2024

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Millwork



A6.1