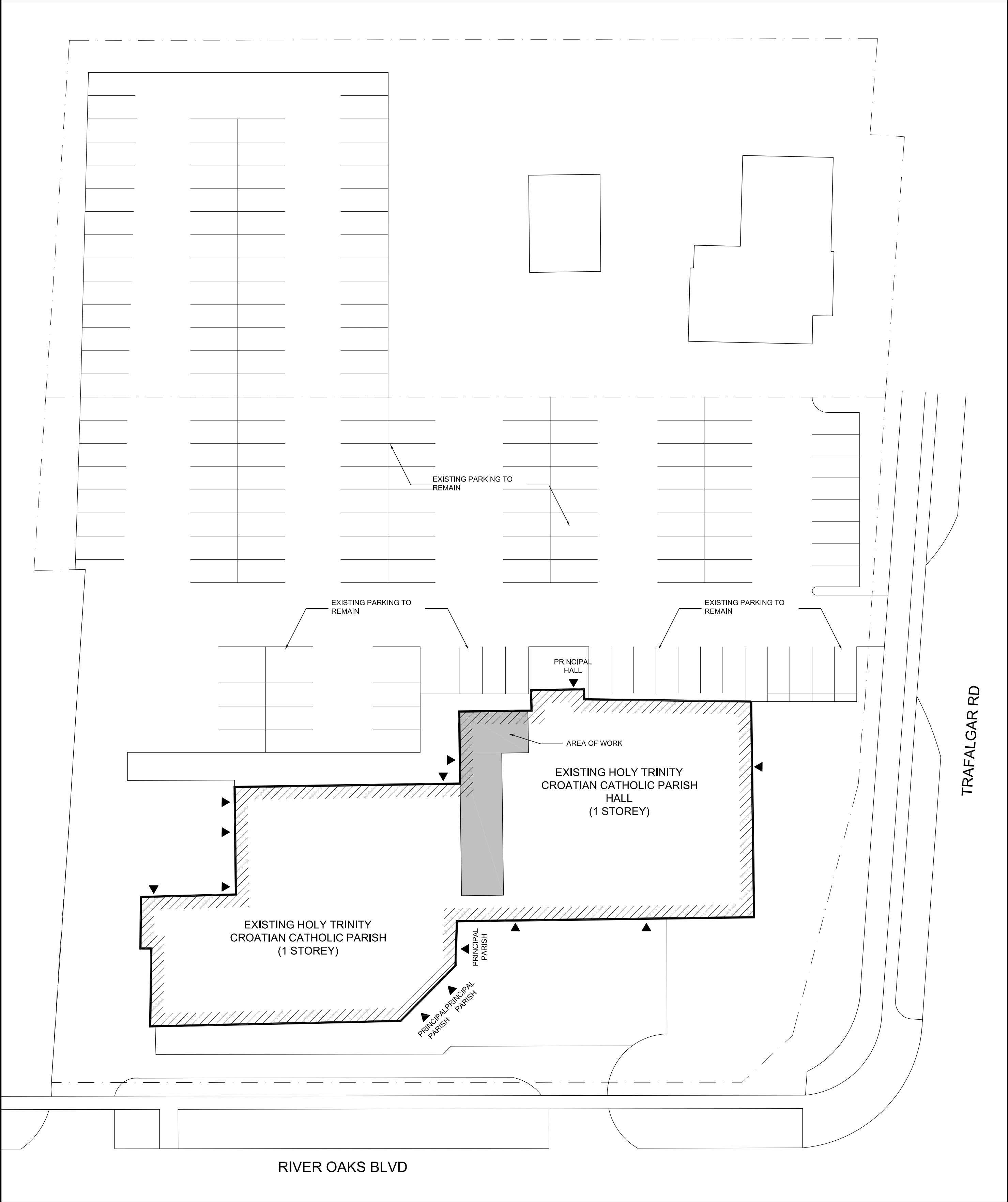


HOLY TRINITY CROATIAN PARISH HALL WASHROOM AND KITCHEN RENOVATION

2110 TRAFALGAR RD, OAKVILLE, ON.



1 SITE PLAN
A0.00 SCALE: 1:300

GRAPHIC LEGEND

▲ ENTRANCE TO BLDG.

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

DFE

DOYTCH & FILO ENGINEERING INC.
Structural Engineers

Phones: (647) 836-4805 ; (905) 719-1482

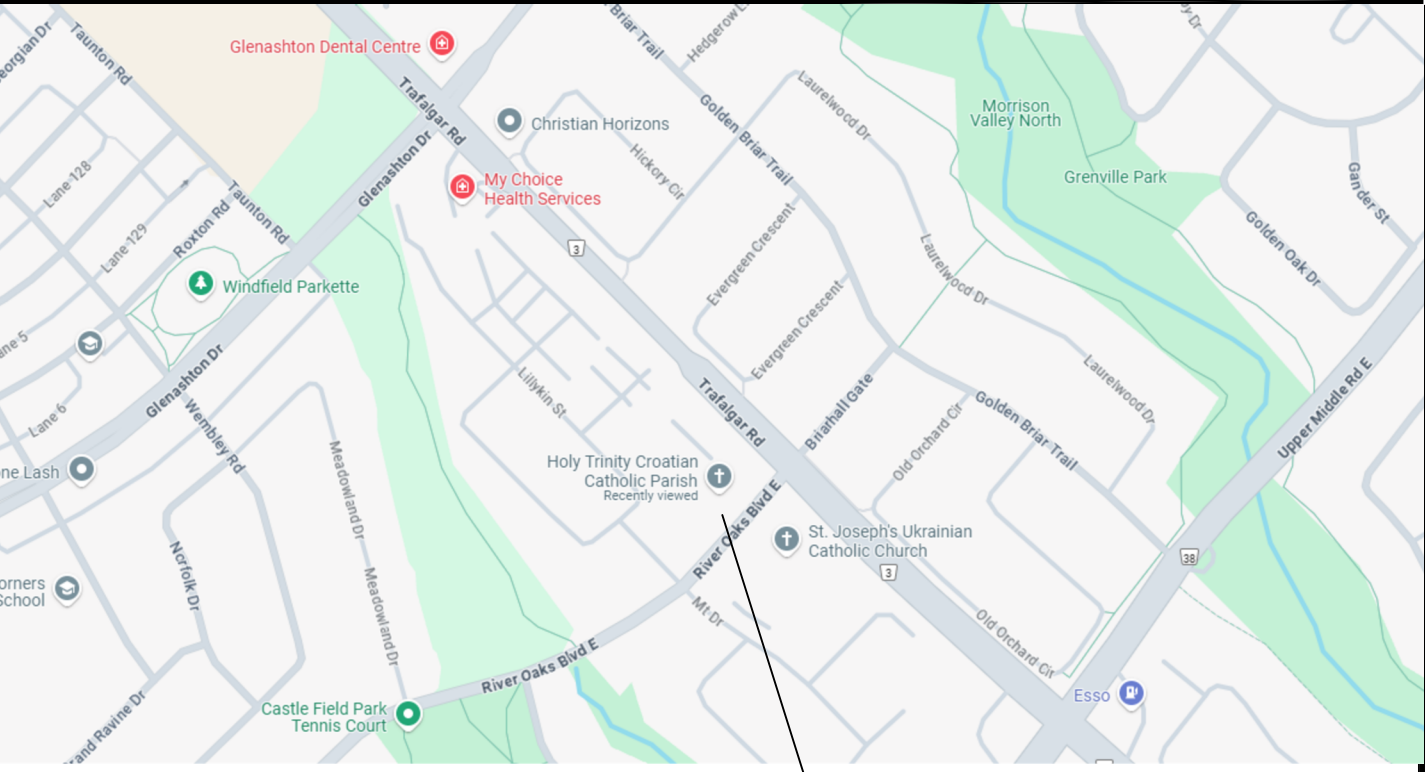
STRUCTURAL ENGINEER

RM

ENGINEERING

499 BROOKSIDE DRIVE, OAKVILLE, ONTARIO, L6K 1R4
TEL: (416) 726-1648 | (905) 617-4808
E-MAIL: contact@rm-eng.ca | WEB: rm-eng.ca

MECHANICAL / ELECTRICAL ENGINEER



KEY MAP

SCALE: NTS

DRAWING LIST:

ARCHITECTURAL

A0.00 COVER SHEET
A0.05 OBC DATA MATRIX AND EXITING PLAN
A2.00 DEMOLITION FLOOR PLANS
A2.05 FLOOR PLANS
A2.10 ROOF PLAN
A2.20 REFLECTED CEILING PLAN
A3.00 WALL SECTIONS AND DETAILS
A4.00 INTERIOR ELEVATIONS
A4.10 INTERIOR ELEVATIONS AND SCHEDULES
A5.00 MILLWORK DETAILS

STRUCTURAL

S0.0 GENERAL NOTES AND SCHEDULES
S0.1 GENERAL NOTES AND SCHEDULES
S1.0 GROUND FLOOR PLANS, SECTION AND DETAILS
S1.1 ROOF FRAMING PLAN, SECTION AND DETAILS

MECHANICAL

M1 MECHANICAL DEMOLITION PLAN
M2 MECHANICAL HVAC PLAN
M3 MECHANICAL PLUMBING PLAN
M4 MECHANICAL SCHEDULES
M5 MECHANICAL SPECIFICATIONS

ELECTRICAL

E1 ELECTRICAL DEMOLITION PLAN
E2 ELECTRICAL LIGHTING, LIFE SAFETY AND POWER PLANS
E3 ELECTRICAL DETAILS
E4 ELECTRICAL SPECIFICATIONS
E5 ELECTRICAL SPECIFICATIONS, LEGENDS AND SCHEDULES

ISSUED FOR TENDER

2025-05-28

PROJECT NUMBER

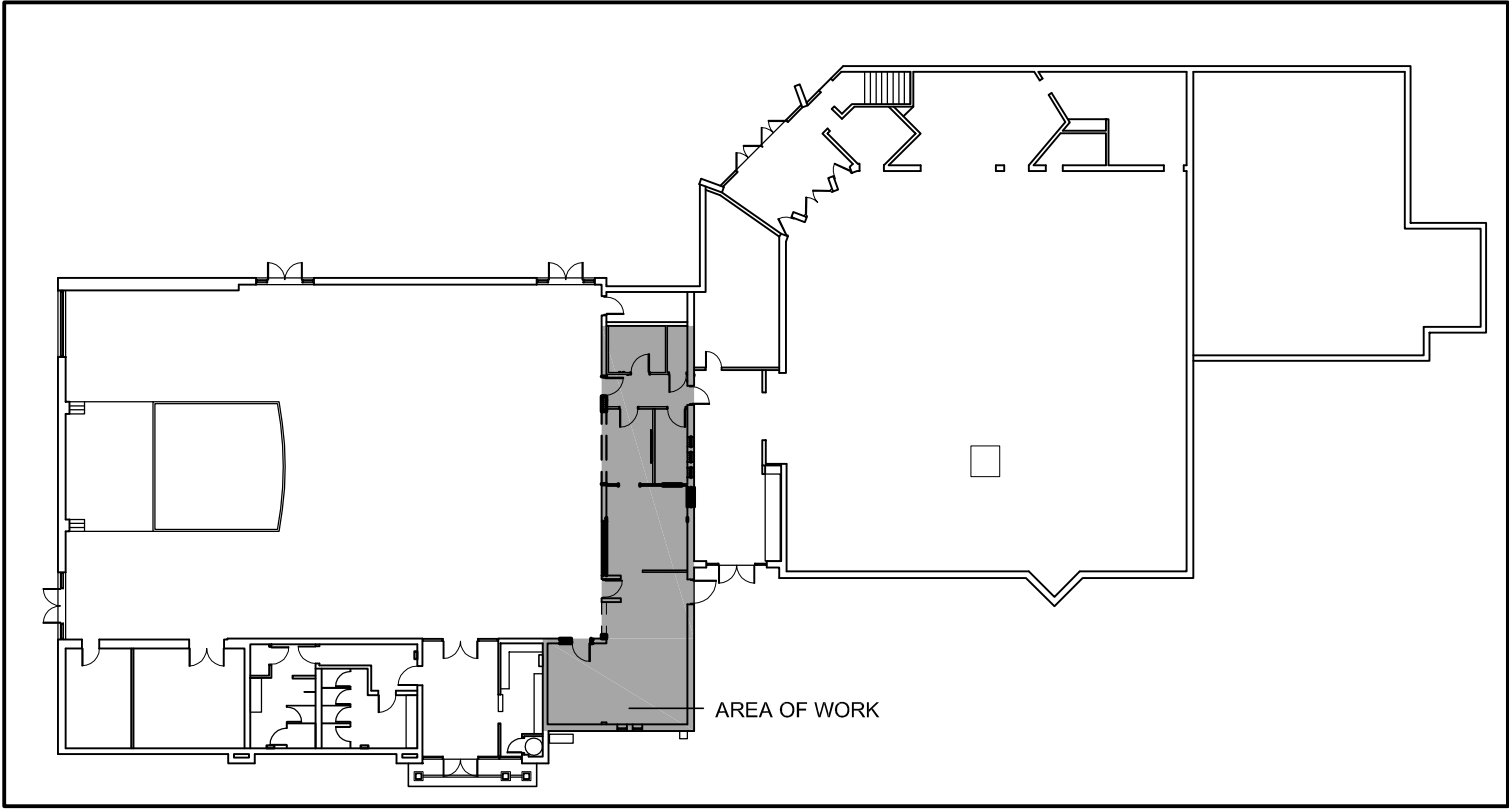
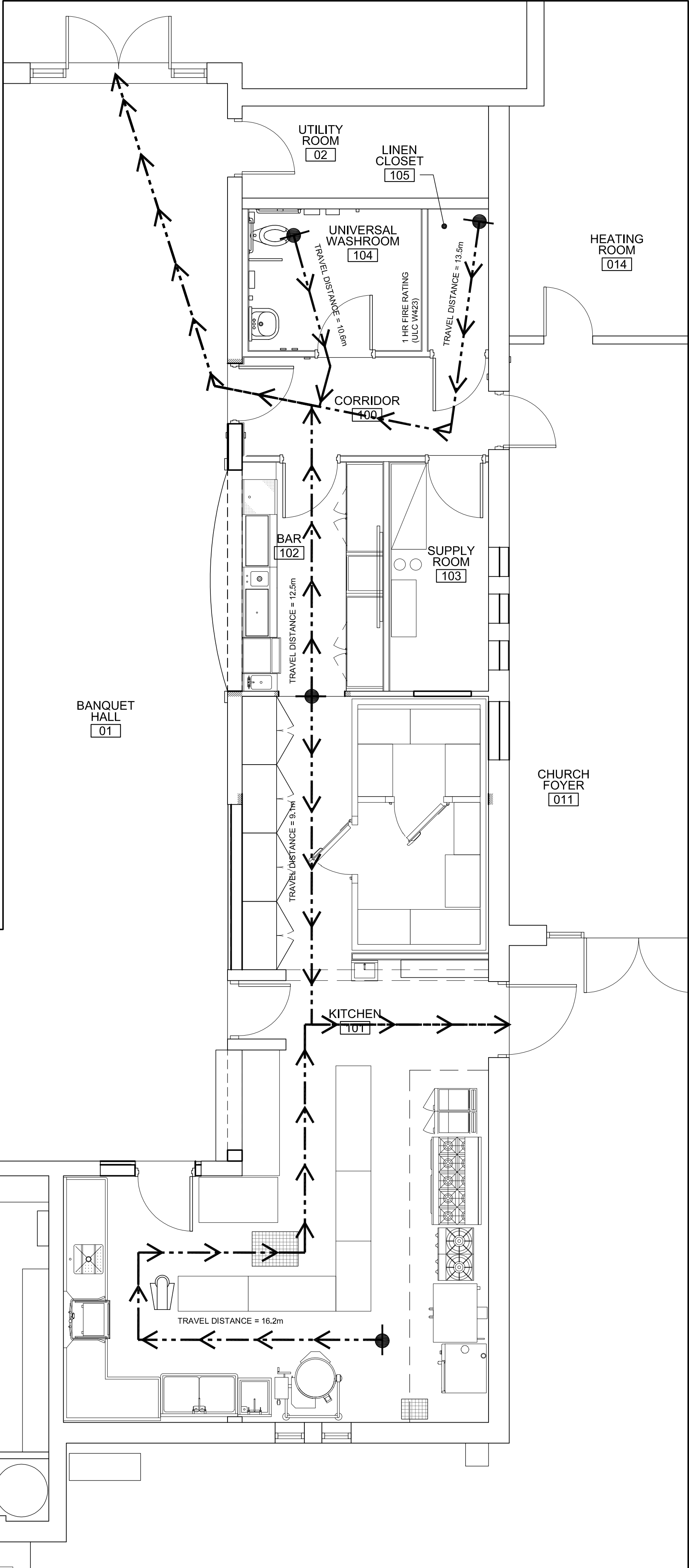
2025-04

SHEET NUMBER

A 0.00

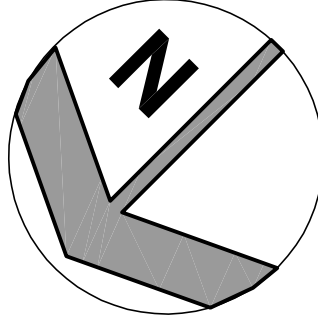
FIRE RESISTANCE RATING SCHEDULE	
DENOTES FIRE SEPARATION (TYPE DENOTED ON PLAN)	---
TRAVEL DISTANCE	
LINE OF EGRESS ROUTE + TRAVEL DISTANCE	---
ARROWS DENOTE DIRECTION OF TRAVEL	> > > >
START POINT AT DOOR	---
MAXIMUM 30m TRAVEL DISTANCE FROM EGRESS DOORWAY OF ROOM OR FLOOR AREA TO NEAREST EXIT	

Ontario Building Code Data Matrix Part 11 -- Renovation of Existing Building			Building Code Reference
11.1	Existing Building classification:	Describe Existing Use: GROUP A-2, BANQUET HALL / CHURCH Construction Index: _____ Hazard Index: _____ <input checked="" type="checkbox"/> Not Applicable (no major change of occupancy)	11.2.1 T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is:	Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/>	11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage System: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Sewage system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain)	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (give number [s]): _____	11.4.2



KEY PLAN
SCALE: NTS

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: HOLY TRINITY CROATIAN PARISH HALL - WASHROOM AND KITCHEN RENOVATION	
LOCATION: 2110 TRAFALGAR RD, OAKVILLE, ONTARIO, L6H 7H2	
Item	Ontario's 2024 Building Code Data Matrix Parts 3
1	Project Description: INTERIOR RENOVATIONS TO CREATE A NEW UNIVERSAL WASHROOM AND TO AN EXISTING COMMERCIAL KITCHEN <input type="checkbox"/> New <input type="checkbox"/> Part 11 <input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Addition <input type="checkbox"/> 11.1 to 11.4 <input type="checkbox"/> Change of Use <input checked="" type="checkbox"/> Alteration
2	Major Occupancy(s) GROUP A-2 - ASSEMBLY
3	Building Area Existing 1,730.5 m² New 0 m² Total 1,730.5 m²
4	Gross Area Existing 1,730.5 m² New 0 m² Area of Renovation 120.3 m²
5	Number of storeys 1 Storey Above grade 1 Below grade 1
7	Number of Streets/ Fire Fighter Access 3 (Existing)
8	Building Classification Group A, Division 2, 3.2.2.25 (Existing)
9	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 (Existing)
10	Standpipe required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Fire Alarm required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Existing)
12	Water Service/Supply is Adequate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
13	High Building <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Permitted Construction <input type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required <input checked="" type="checkbox"/> Both Actual Construction <input type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible <input checked="" type="checkbox"/> Both
15	Mezzanine(s) Area m² N/A
16	Occupant load based on <input checked="" type="checkbox"/> m²/person <input type="checkbox"/> design of building Church Occupancy A-2 Load EXISTING persons Hall Occupancy A-2 Load EXISTING persons (NO PROPOSED CHANGE TO THE OCCUPANT LOAD)
17	Barrier-free Design <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)
18	Hazardous Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19	Required Fire Resistance Rating (FRR) Horizontal Assemblies FRR (Hours) Floor over Basement N/A Minutes Floors N/A Minutes Roof N/A Minutes Mezzanine N/A Hours FRR of Supporting Members Floor over Basement N/A Minutes Floors N/A Minutes Roof N/A Minutes Mezzanine N/A Hours
19	Spatial Separation - Construction of Exterior Walls Wall Area of EBF (m²) L.D. (m) L/H or H/L Permitted Max. % of Openings Proposed % of Openings FRR (Hours) Listed Design or Description Comb. Constr. Comb. Constr. Non-comb. Cladding Non-comb. Constr.
20	Plumbing Fixture Requirements (Occupant load does not require an increase in the number of fixtures) Male / Female Count @ 50 % / 50 %, except as noted otherwise Occupancy Occupancy Occupant Load BC Table Number Male Female Male Female plus 1 UNIVERSAL WASHROOM (NEW)
21	Travel Distance to Exits (Refer to Drawings)



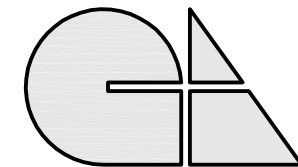
2	ISSUED FOR TENDER	2025-05-28
1	ISSUED FOR PERMIT	2025-05-22
NO	REVISIONS	DATE

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.

HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION
2110 TRAFALGAR RD, OAKVILLE
ON L6H 7H2

OBC DATA MATRIX AND
EXITING PLAN

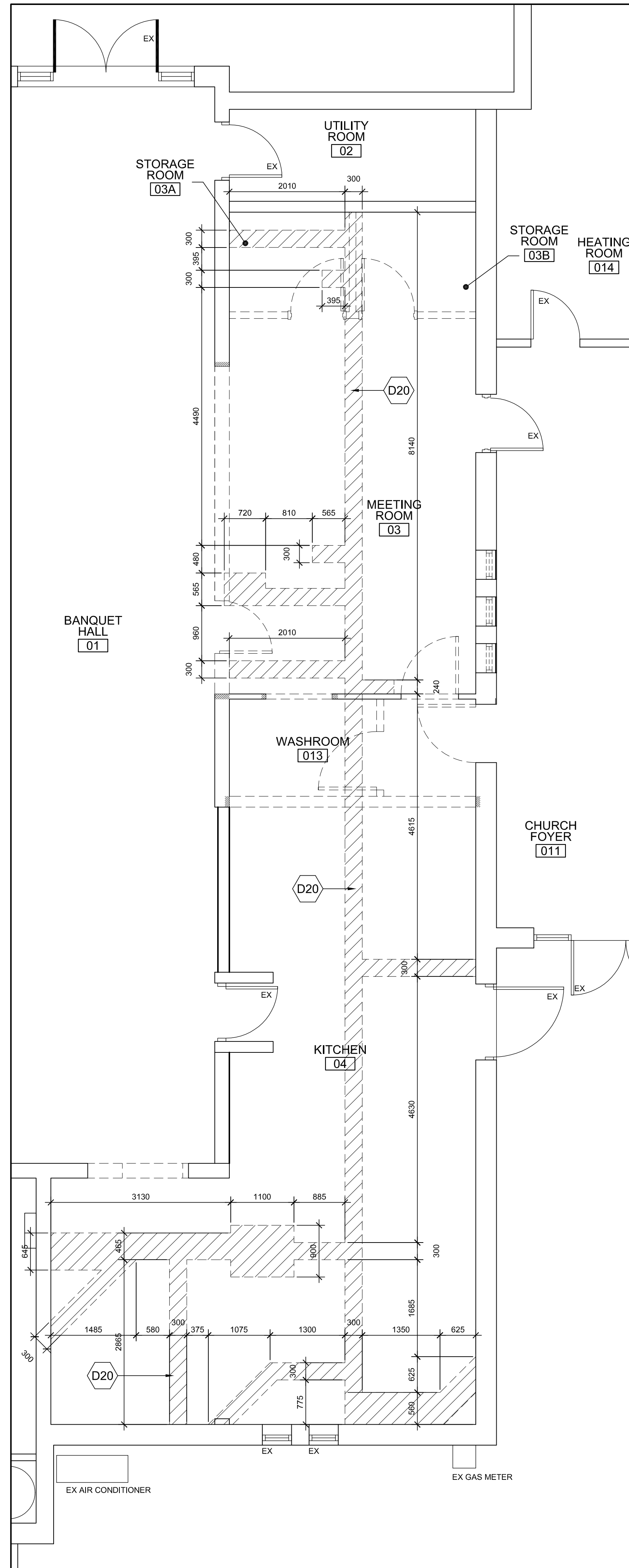
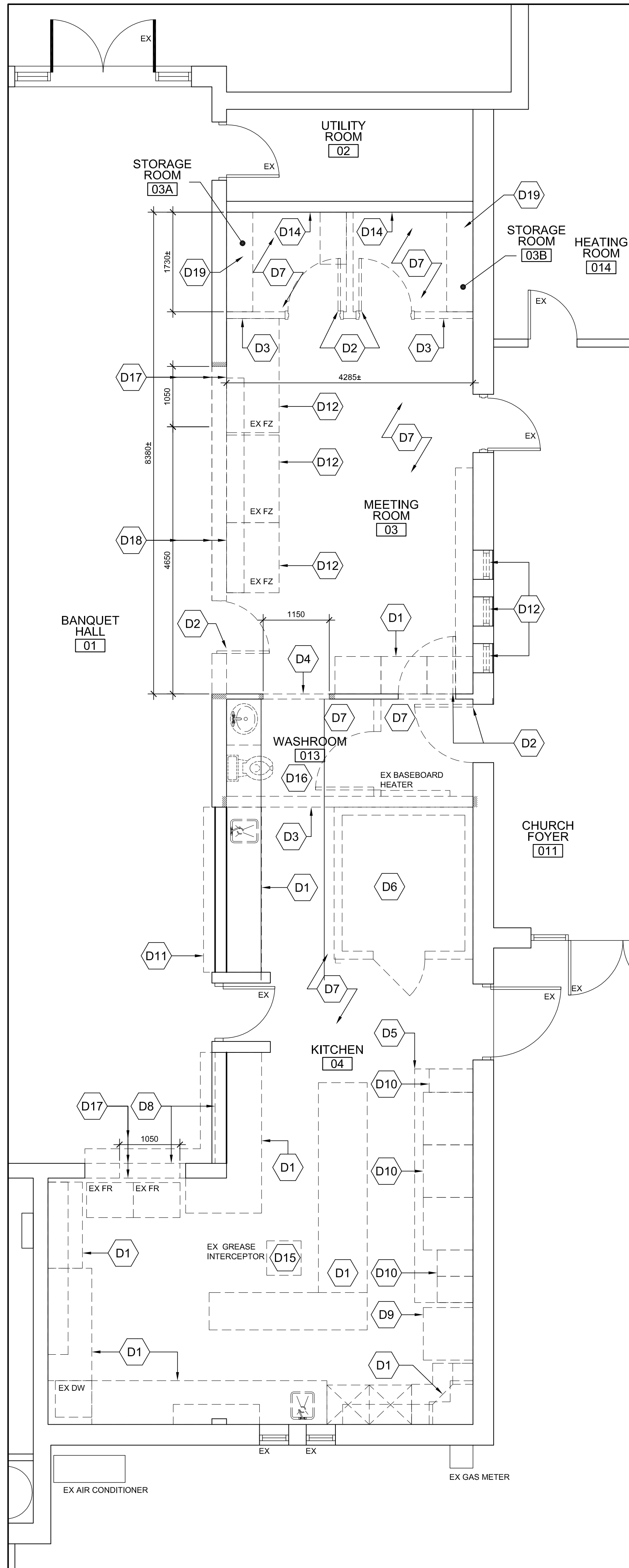
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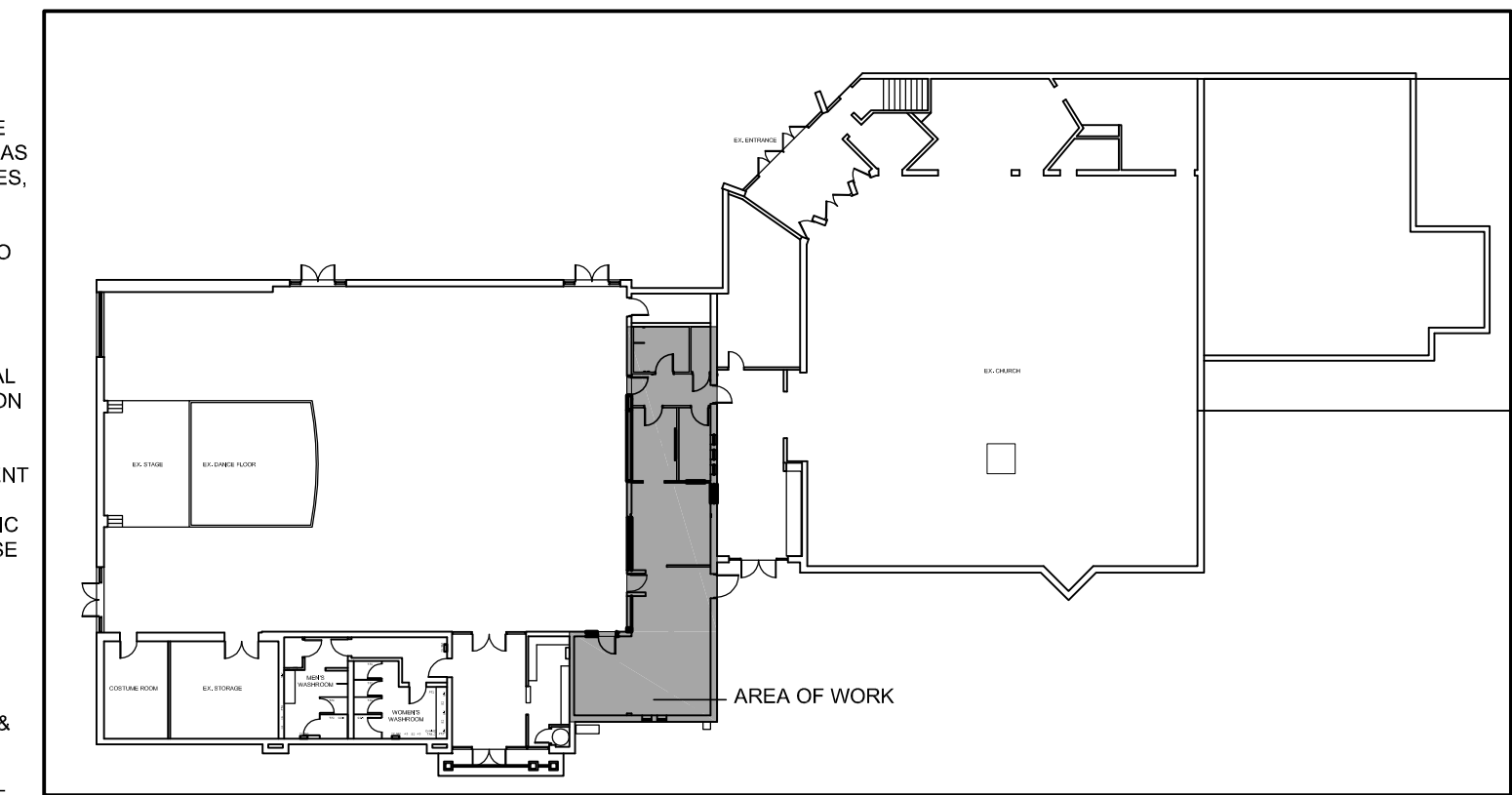
SCALE: AS NOTED	PROJECT: 2025-04
START DATE: MAR 2025	
DRAWN DW	DRAWING: A0.05
CHECKED J.G	
PRINT DATE 05/28/25	

S:\Drawings\2025-04-Oakville_Croatian_Parish_Hall_Renovations\Drawings\A0.05-OBC_data_matrix_and_Exitng_Plan-2025-04.dwg



- ### GENERAL NOTES

1. COORDINATE AND VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.
2. CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN, TAKE CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, STAIRS, ETC. WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION AT NO EXTRA COST TO THE PROJECT.
3. MECHANICAL AND ELECTRICAL ITEMS SHOWN I.E. DUCTWORK, PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC. ARE FOR INFORMATION ONLY. CONTRACTOR TO NOT INCLUDE, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL RELATED NEW AND DEMOLITION WORK REQUIRED.
4. CONNECTIONS OF ALL NON STRUCTURAL ELEMENTS AND EQUIPMENT TO SUPPORTING STRUCTURE TO BE DESIGNED TO COMPLY WITH ARTICLE 4.18.18 OF THE 2024 ONTARIO BUILDING CODE FOR SEISMIC LOADS. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING THESE CONNECTIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER FOR APPROVAL BY ARCHITECT PRIOR TO ANY WORK BEING EXECUTED.
5. IF CONTRACTOR ENCOUNTERS ANY SUSPECTED ASBESTOS CONTAINING MATERIALS (ACM) MATERIALS, THEY ARE TO ADVISE ARCHITECT & CLIENT IMMEDIATELY FOR FURTHER CONFIRMATION & INSTRUCTIONS.
6. TRANSITIONS BETWEEN NEW AND EXISTING FLOOR FINISHES TO BE MADE SMOOTH AND CONTINUOUS, GRIND EXISTING FLOOR SLAB ACROSS DOOR THRESHOLDS TO SUIT THICKNESS OF NEW MATERIALS AND ENSURE NEW MATERIAL IS INSTALLED FLUSH WITH EXISTING.
7. ALL PATCHING AND REPAIRING OF SURFACES ARE NOT NECESSARILY SHOWN, PATCH AND REPAIR ALL EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO THAT ALL SURFACES WHEN COMPLETE RESEMBLE A NEW INSTALLATION.
8. CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR AND REFINISHING OF ALL EXISTING ADJACENT MATERIALS, SURFACES & FINISHES.
9. CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR OF ADJACENT MATERIALS AT ALL ELECTRICAL, LIGHTING, EQUIPMENT, CONDUIT & PIPING. MECHANICAL AND ELECTRICAL ITEMS TO BE REMOVED, RELOCATED, REPLACED, INSTALLED, REFER TO ELECTRICAL DRAWINGS, PREPARE ALL SURFACES FOR NEW FINISHES.
10. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FLOOR FINISHES TO REMAIN, WALLS AND MILL MOUNTED EQUIPMENT FOR THE DURATION OF THE PROJECT.
11. CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE SITE DAILY AND CONDUCTING A FINAL CLEANING AT THE END OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND WIPING DOWN ALL WALLS, ALL NEW FIXTURES AND MILLWORK, ALL NEW DOOR FRAMES AND SILLS, SWEEPING AND MOPPING THE FLOORS. THE CONTRACTOR WILL PROVIDE ALL EQUIPMENT AND MATERIALS TO CLEAN THE SITE PRIOR TO CLIENT OCCUPANCY. THE CONTRACTOR WILL NOT BE PERMITTED TO USE CLIENTS CAR, TAKING TOOLS AND EQUIPMENT; MOPS, BROOMS, BAGS, BINS, ETC.
12. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DOCUMENTS FOR ASSOCIATED DEMOLITION.
13. COORDINATE WITH MECHANICAL & ELECTRICAL DOCUMENTS FOR FULL EXTENT OF ALTERATIONS TO EXISTING PLUMBING, HEATING, VENTILATION, SPRINKLER SYSTEMS; ELECTRICAL, PANELS, FIXTURES, CONDUITS, ETC. WITHIN EXISTING TO REMAIN.
14. WHERE EXISTING SURFACES ARE DISTURBED DUE TO DEMOLITION FINISHES, PARTITIONS, AND EQUIPMENT, CONTRACTOR TO MAKE GOOD FINISHES, SUCH SURFACES SHALL BE MADE GOOD TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
15. MAKE GOOD ALL MATERIALS AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR, REFER TO ALL DOCUMENTS FOR EXTENT OF WORK REQUIRED. MAKING GOOD INCLUDES ALL WORK ASSOCIATED WITH THE REMOVAL OF EXISTING AND INSTALLATION OF NEW SERVICES, ETC. (EXAMPLES: PLUMBING / HEATING MODIFICATIONS IN EXISTING BUILDING, INSTALLATION OF NEW DUCTS IN EXISTING BUILDING, ETC.)
16. WHERE EXISTING WALLS, PARTITIONS / FURRINGS, BUILDING FITMENTS, HOUSEKEEPING PADS, ETC. ARE BEING REMOVED, MAKE GOOD SUBSTRATES TO RECEIVE NEW SPECIFIED MATERIALS AND FINISHES.



- DEMOLITION NOTES

- D1 REMOVE AND DISCARD EXISTING MILLWORK AND STAINLESS STEEL COUNTER TOPS (LOWER UPPER CABINET AND SINKS). REFER TO MECHANICAL FOR DISCONNECTION AND CAPPING OF SERVICES (WATER AND SANITARY) TO SINK.
 - D2 REMOVE AND DISCARD EXISTING HOLLOW METAL DOOR AND FRAME IN ITS ENTIRETY
 - D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY IN THE NOTED AREAS PATCH & MAKE GOOD ALL ADJACENT SURFACES, FINISHES, MATERIALS WHERE DISTURBED
 - D4 CUT NEW 2200mm HIGH OPENING IN EXISTING CONCRETE BLOCK WALL.. OPENING TO EXTEND 50mm BELOW ADJACENT FLOOR LEVEL.. INSTALL NEW STEEL LINTEL ABOVE TO SUPPORT EXISTING BLOCK. REFER TO STRUCTURAL DRAWINGS. PATCH & MAKE GOOD ALL EX GYP AROUND OPENING TO MATCH AND TIE IN WITH EX
 - D5 REMOVE AND DISCARD EX HOOD IN ITS ENTIRETY. REFER TO MECHANICAL
 - D6 REMOVE AND DISCARD EX WALK-IN COOLER IN ITS ENTIRETY
 - D7 REMOVE AND DISCARD EXISTING VOT FLOORING. GRIND EXISTING CONCRETE FLOORS TO REMOVE ADHESIVE. PATCH AND REPAIR EXISTING CONCRETE SLAB TO REMAIN AS REQUIRED AND MAKE READY TO RECEIVE NEW FINISH
 - D8 REMOVE AND DISCARD EXISTING OVERHEAD ROLLING SHUTTER DOOR IN ITS ENTIRETY
 - D9 REMOVE AND DISCARD EXISTING OVENS
 - D10 REMOVE AND DISCARD EXISTING BURNER RANGES AND FRYER
 - D11 REMOVE AND DISCARD EXISTING COUNTERTOP.
 - D12 REMOVE AND DISCARD EXISTING WINDOWS
 - D13 REMOVE EXISTING FREEZERS AND TURN OVER TO THE OWNER.
 - D14 REMOVE AND DISPOSE OF EXISTING WOOD SLAT WALL CLADDING. PATCH AND REPAIR EXISTING LINTEL TO REMAIN AS REQUIRED AND MAKE READY TO RECEIVE NEW WALL FINISH
 - D15 REMOVE AND DISCARD EXISTING GREASE INTERCEPTOR
 - D16 REMOVE EXISTING WASHROOM FIXTURES & ACCESSORIES INCLUDING: PAPER TOWEL DISPENSERS, TOILET PAPER, DISPENSERS, SOAP DISPENSERS, GRAB BAR, MIRROR, BABY CHANGE STATION, AND BASEBOARD HEATER. PATCH AND REPAIR EXISTING WALLS TO REMAIN AND MAKE READY TO RECEIVE NEW FINISHES
 - D17 CUT NEW 2200mm HIGH OPENING IN EXISTING CONCRETE BLOCK WITH METAL STUD AND GYPSUM BOARD WALL.. OPENING TO EXTEND 50mm PAST ADJACENT FLOOR LEVEL.. INSTALL NEW STEEL LINTEL ABOVE TO SUPPORT EXISTING BLOCK. REFER TO STRUCTURAL DRAWINGS. PATCH & MAKE GOOD ALL EX GYP BD AROUND OPENING TO MATCH AND TIE IN WITH EX
 - D18 CUT NEW 2400mm HIGH OPENING IN EXISTING CONCRETE BLOCK WITH METAL STUD AND GYPSUM BOARD WALL.. INSTALL NEW STEEL LINTEL ABOVE TO SUPPORT EXISTING BLOCK. PATCH & MAKE GOOD ALL EX GYP BD AROUND OPENING TO MATCH AND TIE IN WITH EX
 - D19 EXISTING WOOD SHELVES AND METAL PILASTERS TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR EXISTING WALLS TO REMAIN AND MAKE READY TO RECEIVE NEW FINISHES.
 - D20 HATCHED AREA DENOTES EXISTENCE OF EXISTING FLOOR SLAB TO BE REMOVED AND DISPOSE OF FOR UNDER SLAB PILING INSTALLATION (LOW 125mm SLAB THICKNESS). REMOVE AND DISPOSE OF EXISTING GRANULAR FILL BELOW THE SLAB AS REQUIRED. COORDINATE WITH MECHANICAL DRAWINGS.

LEGEND

BD	BOARD
EX	EXISTING ITEM
FR	FREEZER
MIN	MINIMUM
NIC	NOT IN CONTRACT
O/C	ON CENTER
U/S	UNDERSIDE

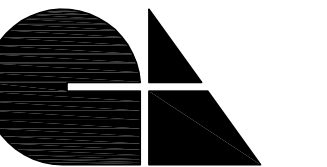
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1	ISSUED FOR PERMIT	2025-05-22
NO	REVISIONS	DATE

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**HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION
2110 TRAFALGAR RD, OAKVILLE
ON L6H 7H2**

DEMOLITION FLOOR PLANS

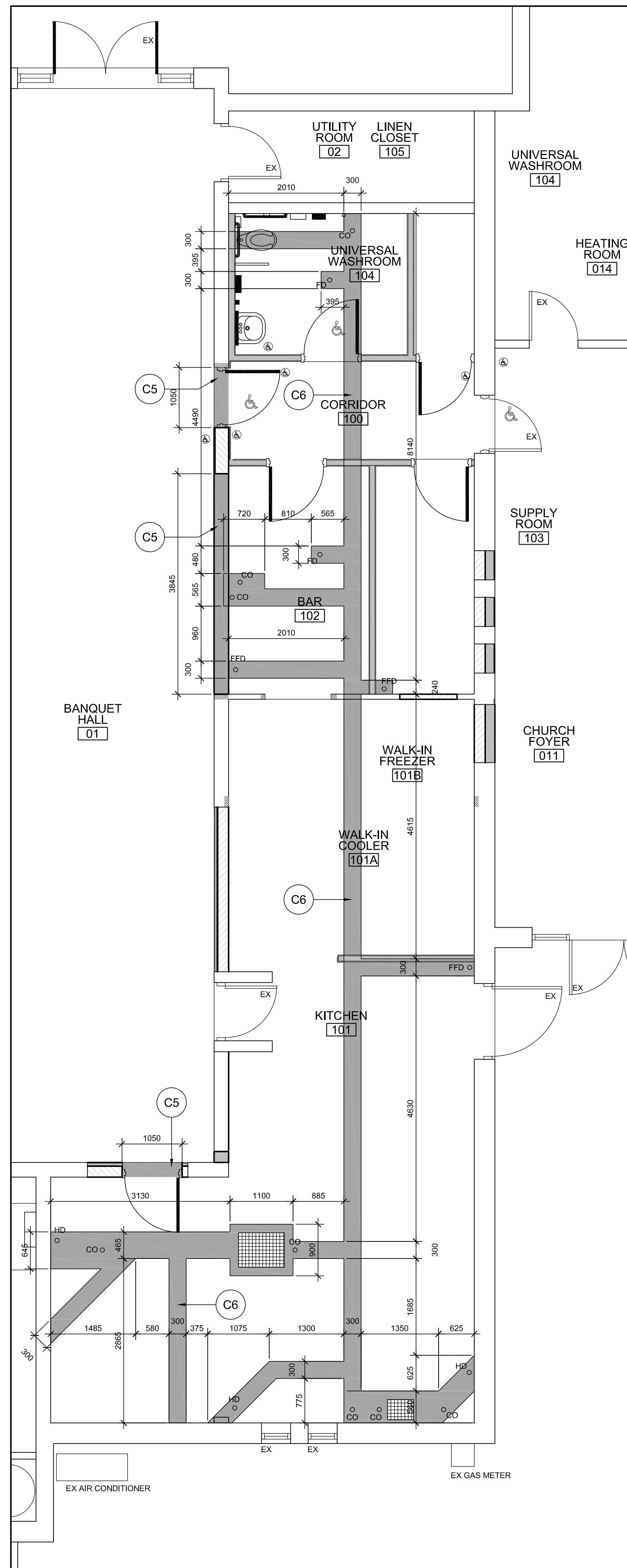
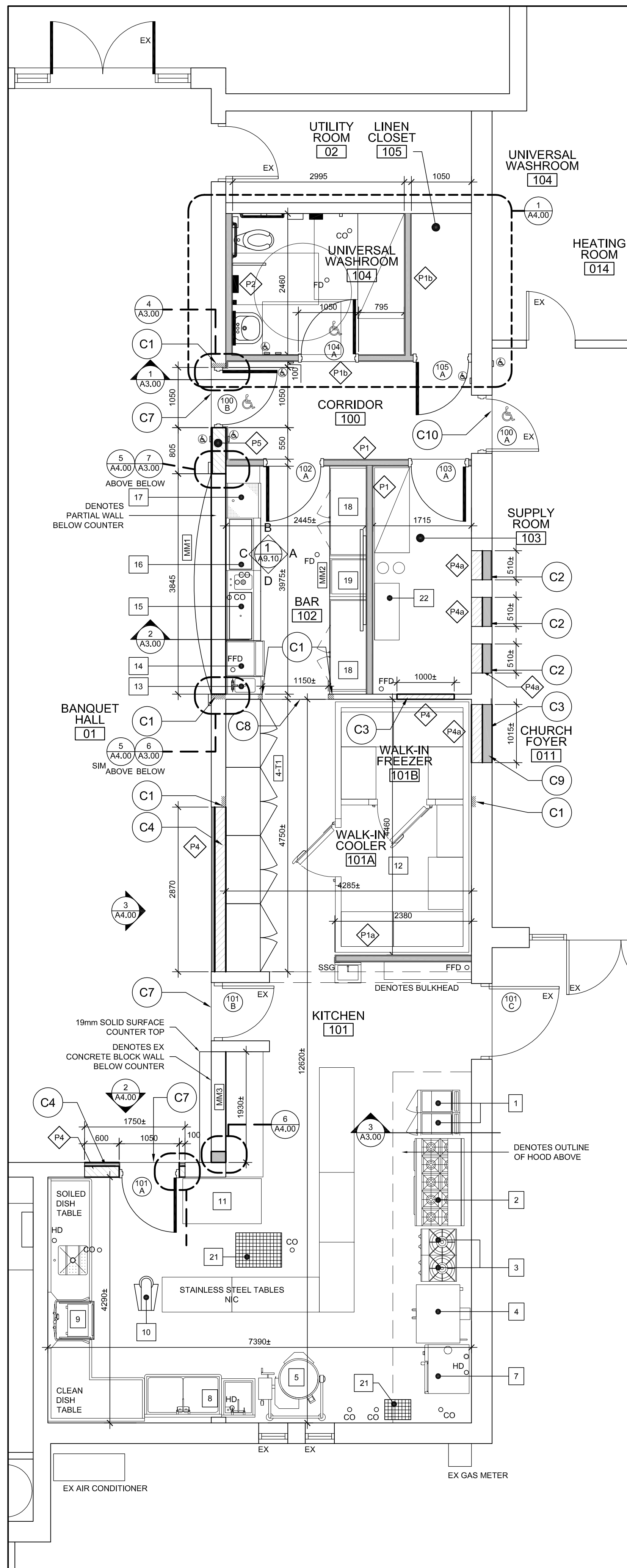
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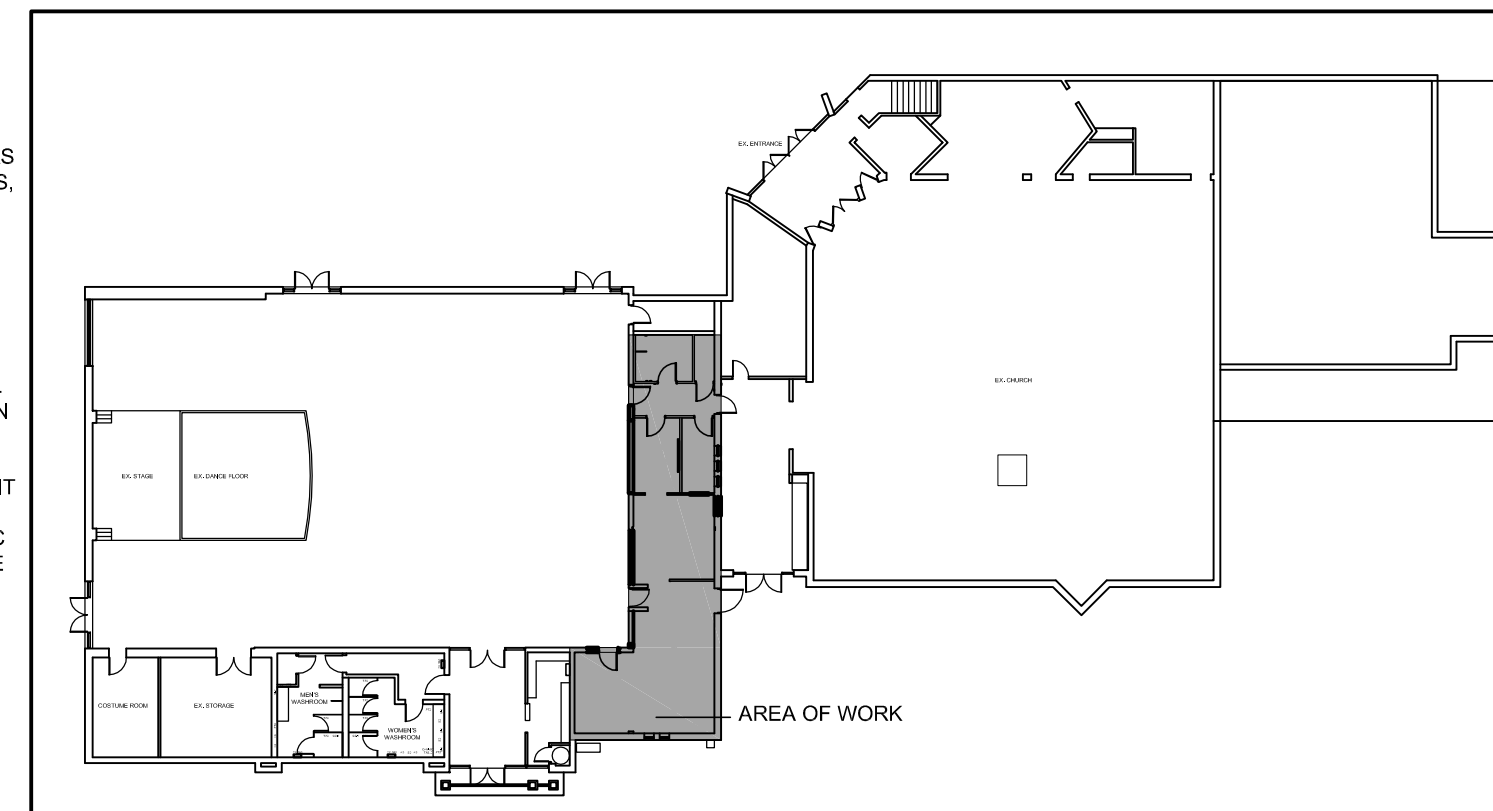
SCALE: AS NOTED	PROJECT: 2025-04
START DATE: MAR 2025	
DRAWN DW	DRAWING: A2.00
CHECKED J.G	
PRINT DATE	05/28/25



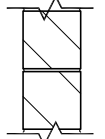


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A2-00-Floor-plan-2025-04\dwg



- ## GENERAL NOTES

1. COORDINATE AND VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.
2. CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. AREAS CAUSE DAMAGE NOT TO ENCRONCH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, ROOFING FINISHES, ETC. WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION AT NO EXTRA COST TO THE PROJECT.
3. MECHANICAL AND ELECTRICAL ITEMS SHOWN I.E. DUCTWORK, PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC. ARE FOR REMOVAL ONLY AND ARE NOT INCLUSIVE. REFER TO MECHANICAL AND ELECTRICAL DRAWING FOR ALL RELATED NEW AND DEMOLITION WORK REQUIRED.
4. CONNECTIONS OF ALL NON STRUCTURAL ELEMENTS AND EQUIPMENT TO SUPPORTING STRUCTURE TO BE DESIGNED TO COMPLY WITH ARTICLE 4.14.18 OF THE 2024 ONTARIO BUILDING CODE FOR SEISMIC RISK. CONTRACTOR TO SUBMIT ALL CONNECTIONS SHOWING THESE CONNECTIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER FOR APPROVAL BY ARCHITECT PRIOR TO ANY WORK BEING EXECUTED.
5. IF CONTRACTOR ENCOUNTERS ANY SUSPECTED ASBESTOS CONTAINING MATERIALS (ACM) MATERIALS, THEY ARE TO ADVISE ARCHITECT & CLIENT IMMEDIATELY FOR FURTHER CONFIRMATION & INSTRUCTIONS.
6. TRANSITIONS BETWEEN NEW AND EXISTING FLOOR FINISHES TO BE MADE SMOOTH AND CONTINUOUS, GRIND EXISTING FLOOR SLAB ACROSS DOOR THRESHOLDS TO SUIT THICKNESS OF NEW MATERIALS AND ENSURE NEW MATERIAL IS INSTALLED FLUSH WITH EXISTING.
7. ALL PATCHING AND REPAIRING OF SURFACES ARE NOT NECESSARILY SHOWING PATCH AND REPAIR ALL EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO THAT ALL SURFACES WHEN COMPLETE RESEMBLE A NEW INSTALLATION.
8. CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR AND REFINISHING OF ALL EXISTING ADJACENT MATERIALS, SURFACES & FINISHES.
9. CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR OF ADJACENT MATERIALS AT ALL ELECTRICAL, LIGHTING, EQUIPMENT, CONDUIT, RACEWAYS, MECHANICAL, ETC. PRIOR TO DEMOLITION. TO BE REMOVED, RELOCATED, REPLACED, INSTALLED, REFER TO ELECTRICAL DRAWINGS, PREPARE ALL SURFACES FOR NEW FINISHES.
10. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FLOOR FINISHES TO REMAIN, WALLS AND WALL MOUNTED EQUIPMENT FOR THE DURATION OF THE PROJECT.
11. CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE SITE DAILY AND CONDUCTING A FINAL CLEANING AT THE END OF THE PROJECT. THE FINAL CLEANING INCLUDES: SWEEPING, MOPPING, VACUUMING, WAXING ON ALL WALLS, ALL NEW FIXTURES AND MILLWORK, ALL NEW DOOR FRAMES AND SILLS, SWEEPING AND MOPPING THE FLOORS. THE CONTRACTOR WILL PROVIDE ALL EQUIPMENT NECESSARY TO CLEAN THE SITE PRIOR TO CLIENT OCCUPANCY. THE CONTRACTOR WILL NOT BE PERMITTED TO USE CLIENTS CARE TAKING TOOLS AND EQUIPMENT; MOPS, BROOMS, BAGS, BINS, ETC.
12. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DOCUMENTS FOR ASSOCIATED DEMOLITION.
13. COORDINATE WITH MECHANICAL & ELECTRICAL DOCUMENTS FOR FULL EXTENT OF ALTERATIONS TO EXISTING PLUMBING, HEATING, VENTILATION, SPRINKLER SYSTEMS, ELECTRICAL, PANELS, FIXTURES, CONDUITS, ETC. WITHIN EXISTING TO REMAIN.
14. WHERE EXISTING SURFACES ARE DISTURBED DUE TO DEMOLITION OR ALTERATIONS, AND NOT REQUIRED TO BE COVERED WITH NEW FINISHES, EXISTING SURFACES ARE TO BE MADE GOOD TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
15. MAKE GOOD ALL MATERIALS AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR. REFER TO ALL DOCUMENTS FOR EXTENT OF WORK REQUIRED. MAKING GOOD INCLUDES ALL WORK ASSOCIATED WITH THE PROJECT. MAKE GOOD INCLUDES THE INSTALLATION OF NEW SERVICES, ETC. (EXAMPLES: PLUMBING / HEATING MODIFICATIONS IN EXISTING BUILDING, INSTALLATION OF NEW DUCTS IN EXISTING BUILDING, ETC.
16. WHERE EXISTING WALLS, PARTITIONS / FURRINGS, BUILDING FINISHES, HOUSEKEEPING PADS, ETC. ARE BEING REMOVED, MAKE GOOD SUBSTRATES TO RECEIVE NEW SPECIFIED MATERIALS AND FINISHES.



INTERIOR WALL PARTITION TYPES		
NO.	DESCRIPTION	REMARKS
<div>P1</div> <div>P1a</div> <div>P1b</div>	 <ul style="list-style-type: none"> - 92mm METAL STUD AT 400mm O/C - 16mm GYPSUM BOARD (BOTH SIDES) 	<div>P1</div> <p>IN UNIVERSAL WASHROOM (104) USE TILE BACKER BOARD IN LIEU OF GYPSUM BOARD</p> <div>P1a</div> <p>EXTEND PARTITION TO U/S OF STRUCTURE ABOVE</p> <div>P1b</div> <p>EXTEND PARTITION TO 150mm ABOVE ADJACENT CEILING</p> <div>P1b</div> <p>SAME AS P1 WITH WALL CAVITY FILLED WITH SOUND BATT INSULATION</p>
<div>P2</div>	 <ul style="list-style-type: none"> - 92mm METAL STUD AT 400mm O/C - 16mm GYPSUM BOARD BOTH SIDES 	<div>P2</div> <p>EXTEND PARTITION TO UNDERSIDE OF CEILING</p>
<div>P3</div>	 <ul style="list-style-type: none"> - 190mm CONC. BLOCK 	
<div>P4</div> <div>P4a</div>	 <ul style="list-style-type: none"> - 190mm CONC. BLOCK - METAL STUDS AT 400mm O/C - 16mm GYPSUM BOARD 	<div>P4</div> <p>41mm METAL STUDS</p> <div>P4a</div> <p>150mm METAL STUDS</p>
<div>P5</div>	 <ul style="list-style-type: none"> - 13mm GYPSUM BOARD - 240mm CONC. BLOCK - 22mm METAL FURRING CHANNELS (HORIZONTAL) AT 400mm O/C - 16mm GYPSUM BOARD 	<div>P5</div> <ul style="list-style-type: none"> - EXTEND TO 2400mm AFF - PROVIDE FURRING CHANNELS ON HALL SIDE TO MAKE GYPSUM BOARD FLUSH WITH ADJACENT WALL

- ## CONSTRUCTION NOTES

- C1 PATCH AND REPAIR EXISTING WALLS AS REQUIRED. MAKE SURFACE READY TO RECEIVE NEW WALL FINISH
- C2 INFILL EX WINDOW OPENINGS WITH WALL TYPE INDICATED. APPROXIMATE OPENING HEIGHT IS 1800mm
- C3 INFILL EX DOOR OPENING WITH INDICATED WALL TYPE. APPROXIMATE HEIGHT OF OPENING IS 2200mm
- C4 INFILL EX WALL OPENING WITH INDICATED WALL TYPE. APPROXIMATE HEIGHT OF OPENING IS 1200mm
- C5 PROVIDE NEW 50mm CONCRETE FLOOR PATCH AT NEW OPENINGS IN THE WALL
- C6 PROVIDE NEW 25 MPA POURED CONCRETE FLOOR W/ 60d 8x6 W/WH. THICKNESS OF NEW FLOOR TO MATCH EXISTING FLOOR SLAB (APPROX. 125mm). PROVIDE TO HAVE MINIMUM 25mm COVER. 200mm LG 10M DOWELS AT 400mm C/C ON ALTERNATING SIDES. EPOXY EMBED DOWELS 100mm INTO EX FLOOR SLAB
- C7 PROVIDE METAL TRANSITION STRIP BETWEEN EDGE OF NEW FLOOR FINISH AND EXISTING VINYL TILE FINISH
- C8 FEATHER EXISTING CONCRETE FLOOR AS REQUIRED TO PROVIDE A SMOOTH TRANSITION BETWEEN LVIT FLOOR FINISH AND OT FINISH. PROVIDE METAL TRANSITION STRIP BETWEEN FINISHES
- C9 NEW INFILL WALL TO BE PAINTED TO MATCH ADJACENT WALL COLOUR. PROVIDE NEW 19mm THICK DADO BASE (APPROX 150mm TALL) AT INFILL LOCATION
- C10 PROVIDE METAL TRANSITION BETWEEN NEW LVIT FLOOR AND EX CARPET FLOOR

EQUIPMENT LIST	
1	GAS FLOOR FRYER
2	10 BURNER RANGE
3	STOCK POT RANGE - SINGLE
4	CONVECTION OVEN
5	TILTING KETTLE (ELECTRIC)
6	DOUBLE WARMER (TBC)
7	COMBI OVEN (GAS)
8	PREP SINK
9	DOOR TYPE DISHWASHER
10	EXISTING MIXER
11	SLIDING DOOR REFRIGERATOR
12	WALKIN FRIDGE / FREEZER COMBO UNIT
13	UNDERBAR HAND SINK UNIT
14	UNDERBAR ICE MAKER
15	COCKTAIL UNIT W/ DUMP SINK
16	COCKTAIL UNIT
17	UNDERBAR GLASS RACK UNIT
18	BACK BAR REFRIGERATOR
19	WINE FRIDGE
20	NOT USED
21	GREASE INTERCEPTOR
22	BEVERAGE RACK (BAG IN BOX)

NOTE: THE NUMBERS DO NOT CORRELATE TO ACE
DESIGN DRAWING

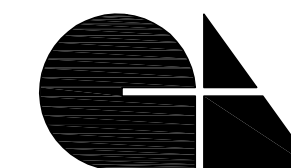
LEGEND		
APPROX	APPROXIMATE	
BD	BOARD	
CO	CLEAN OUT	
EX	EXISTING ITEM	
FD	FLOOR DRAIN	
FFD	FUNNEL FLOOR DRAIN	
HD	HUB DRAIN	
LVT	LUXURY VINYL TIL	
MIN	MINIMUM	
NIC	NOT IN CONTRACT	
QC	ON CENTER	
QT	QUARRY TILE	
SIM	SIMILAR	
SSG	STAINLESS STEEL GUARD	
U/S	UNDERSIDE	
2	ISSUED FOR TENDER	2025-05-28
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NO	REVISIONS	DATE

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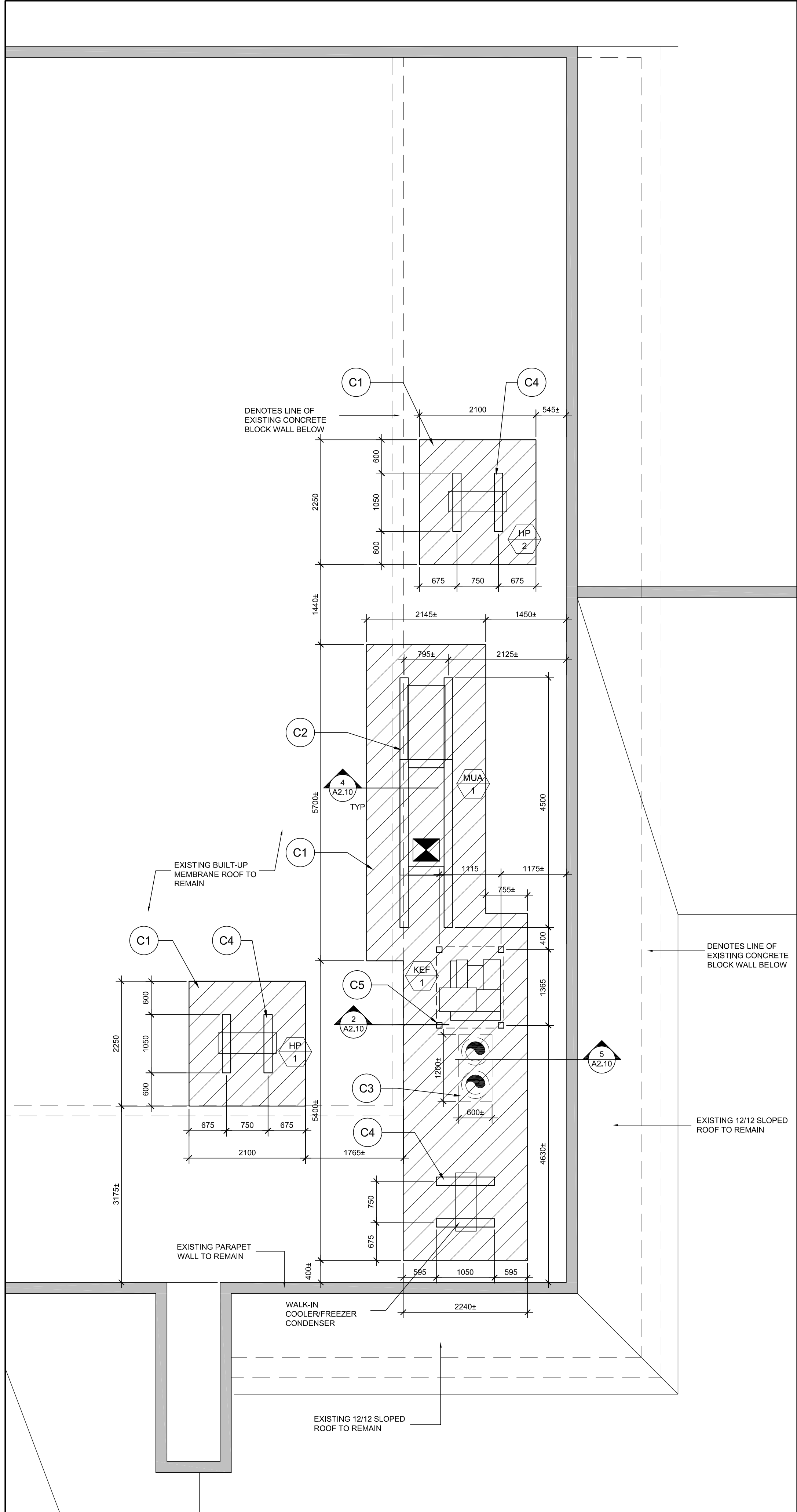
FLOOR PLANS

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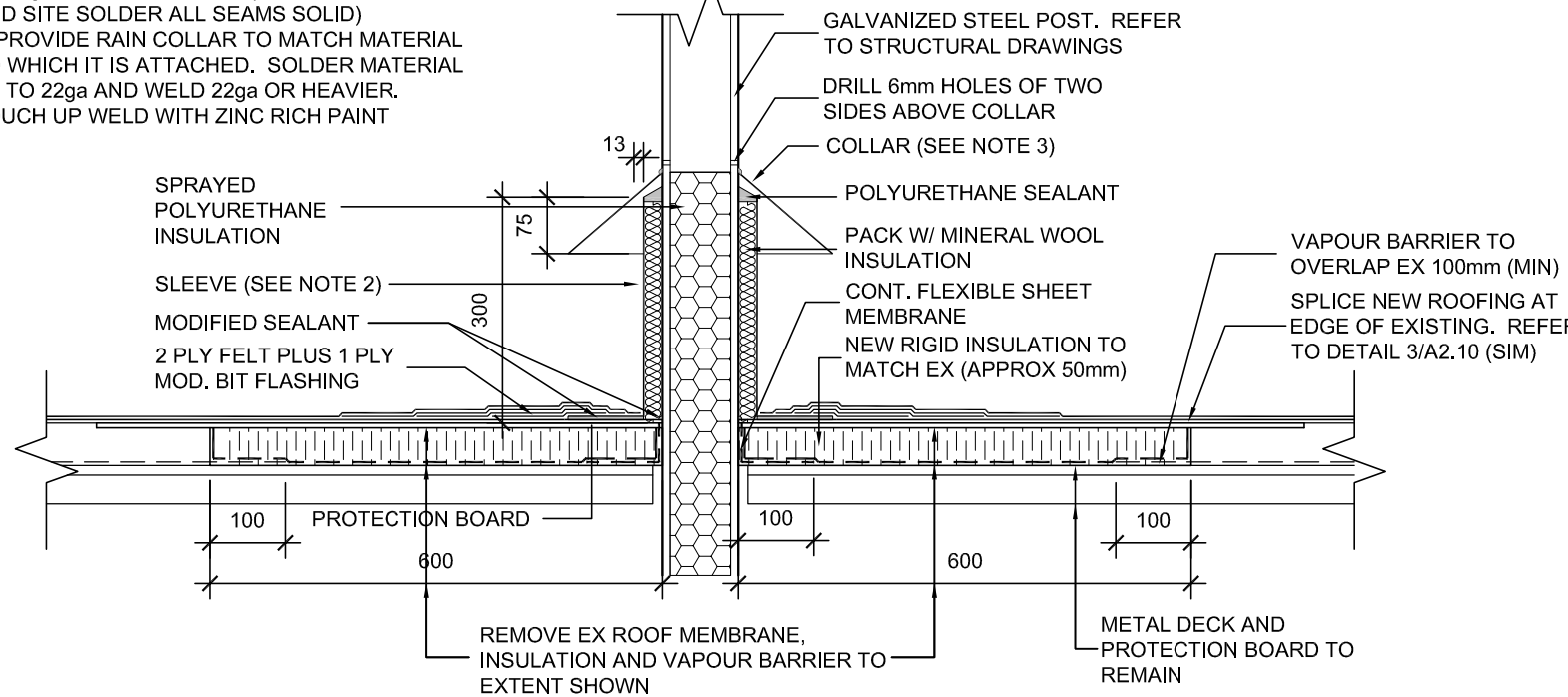
1 PARTIAL ROOF PLAN
SCALE: 1:50

CONSTRUCTION NOTES

- C1 HATCHED AREA DENOTES EXTENT OF REMOVAL OF EXISTING GRAVEL BALLAST, BUR ROOF MEMBRANE, PROTECTION BOARD, INSULATION AND VAPOUR BARRIER. REMOVAL OF BALLAST TO EXTEND PAST EXTENT SHOWN BY 150mm ON ALL SIDES. REMOVE VAPOUR BARRIER TO LEAVE 100mm OVERLAP ON ALL SIDES. PROVIDE NEW VAPOUR BARRIER, INSULATION, PROTECTION BOARD, ROOF MEMBRANE AND BALLAST AS PER DETAILS ON THIS PAGE. FIELD VERIFY FINAL PLACEMENT OF NEW MECHANICAL UNITS PRIOR TO ROOF REMOVAL.
- C2 PROVIDE NEW 150mm WIDE PRESSURE TREATED WOOD SLEEPERS BELOW NEW MAKE UP AIR UNIT. REFER TO DETAIL 4/A2.10. COORDINATE W/ UNIT SHOP DRAWINGS FOR PLACEMENT OF SLEEPERS
- C3 REMOVE AND DISPOSE OF EX ROOF CURB AROUND EX EXHAUST DUCT OPENING. PROVIDE NEW PRESSURE TREATED WOOD CURBS AS PER DETAIL 4/A2.10
- C4 PROVIDE NEW 150mm WIDE PRESSURE TREATED WOOD SLEEPERS BELOW CONDENSING UNITS. REFER TO DETAIL 4/A2.10 (SIM). COORDINATE W/ UNIT SHOP DRAWINGS FOR PLACEMENT OF SLEEPERS
- C5 PROVIDE 4 GALVANIZED STEEL POSTS THROUGH ROOF FOR THE SUPPORT OF THE NEW EXHAUST FAN. COORDINATE W/ STRUCTURAL DRAWINGS FOR SUPPORT FRAME AND POST SIZES. COORDINATE W/ FAN SHOP DRAWINGS FOR SUPPORT FRAME SPACING.

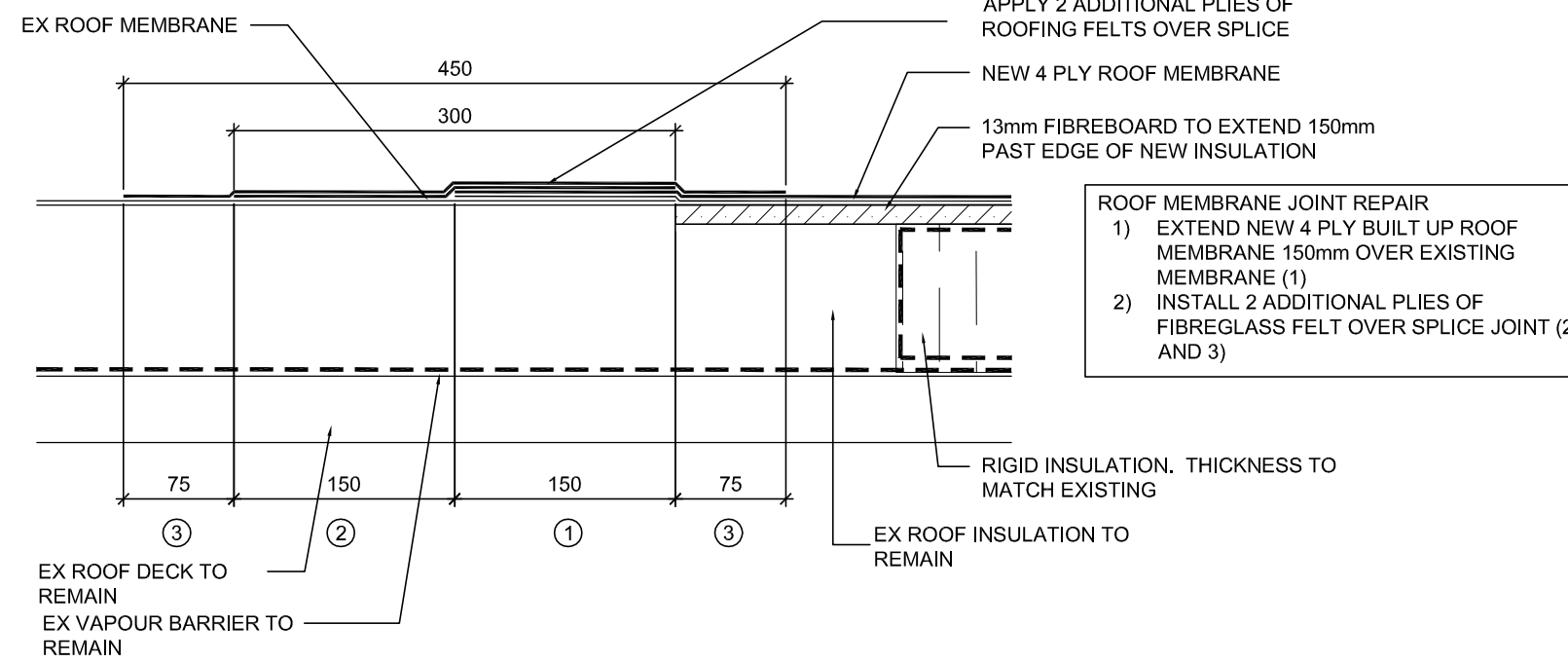
NOTES:

1. PRIME FLANGE AND SET IN MODIFIED SEALANT
2. 454gm COPPER SLEEVE (SHOP FABRICATE AND SITE SOLDER ALL SEAMS SOLID)
3. PROVIDE RAIN COLLAR TO MATCH MATERIAL TO WHICH IT IS ATTACHED. SOLDER MATERIAL UP TO 22ga AND WELD 22ga OR HEAVIER. TOUCH UP WELD WITH ZINC RICH PAINT

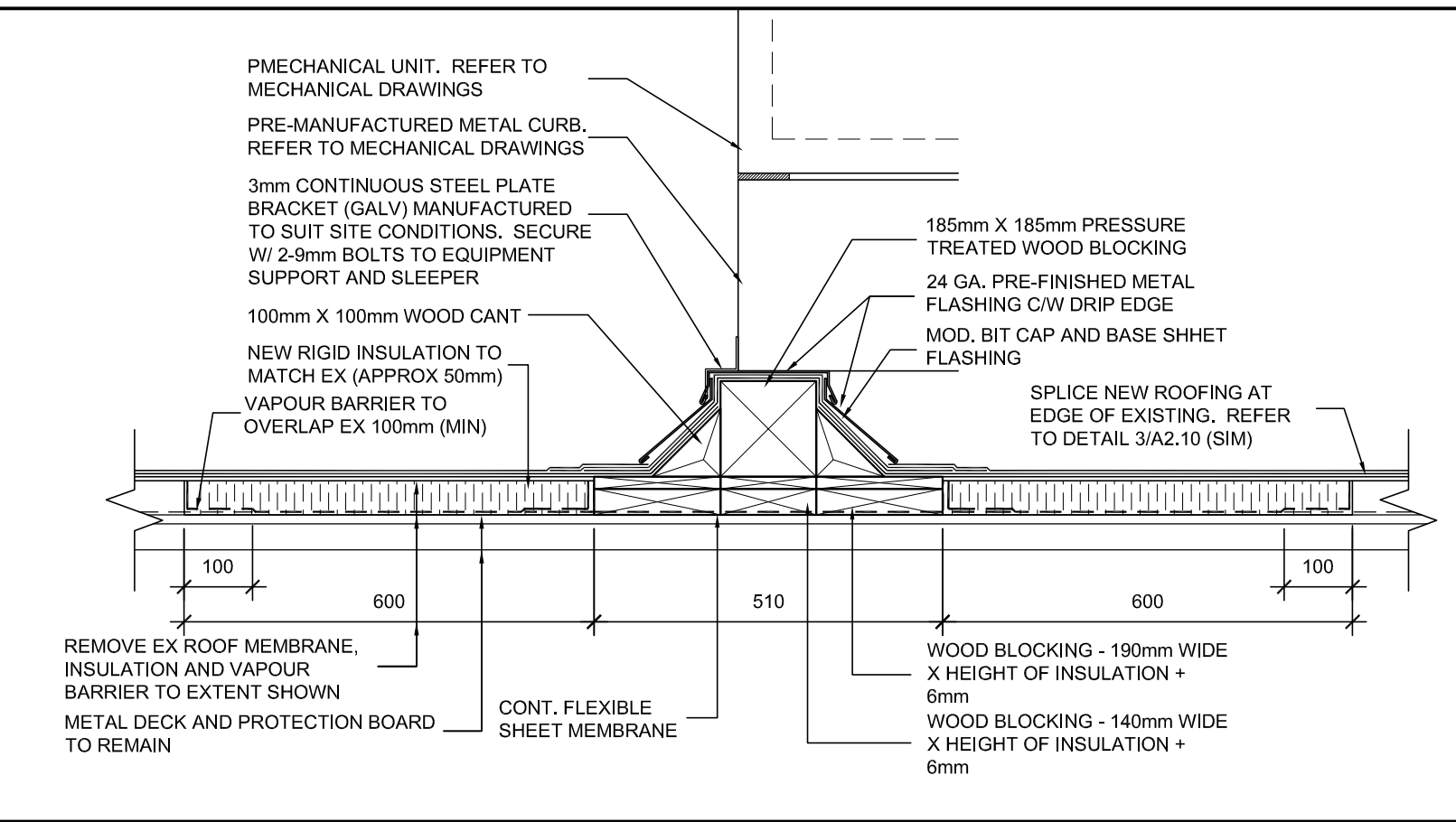


2 DETAIL - ROOF PENETRATION AT EXHAUST FAN
SCALE: 1:10

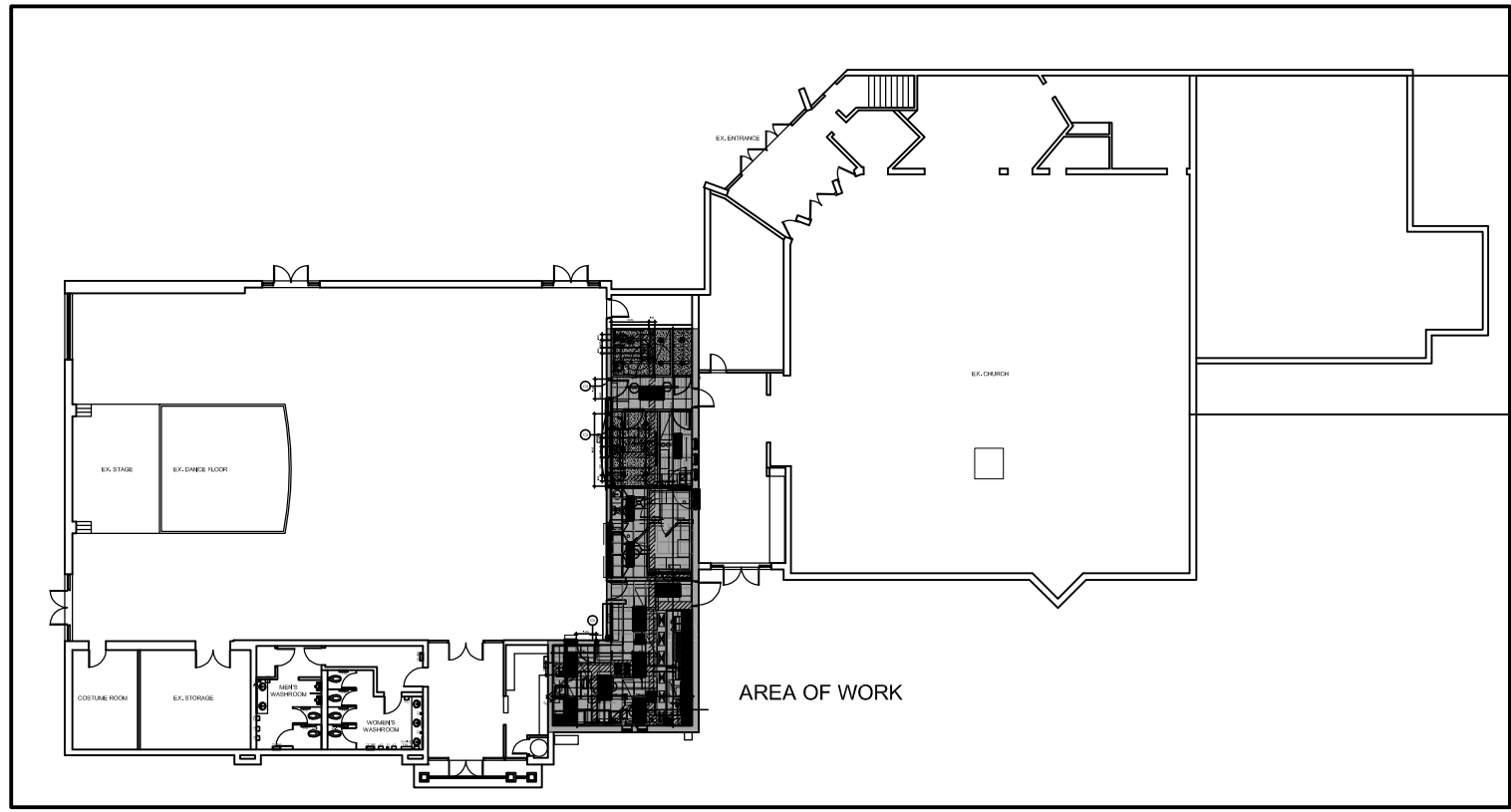
NOTE:
PROVIDE NEW GRAVEL ROOF BALLAST OVER EXTENT OF ROOF REPAIR (NOT SHOWN FOR CLARITY)



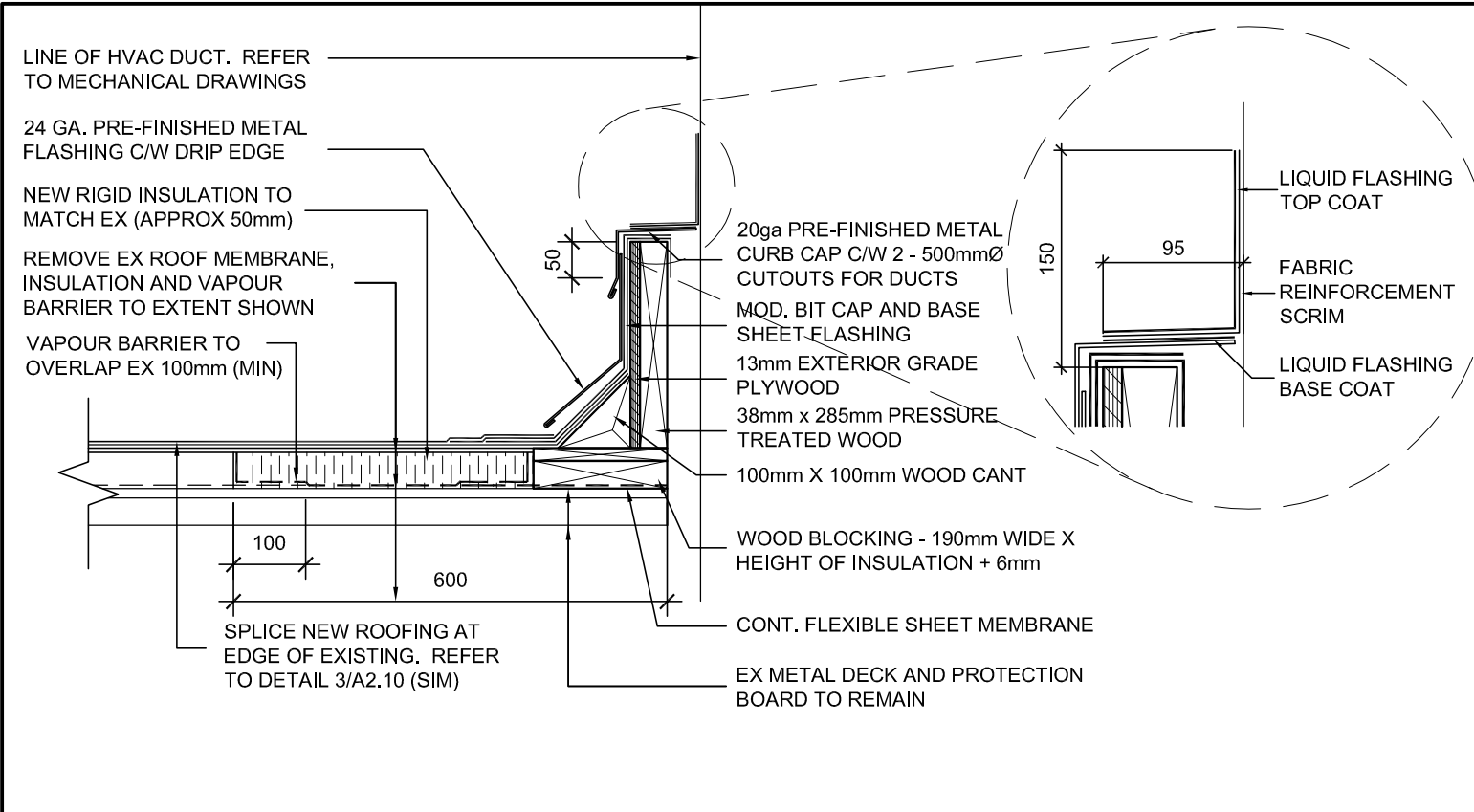
3 DETAIL - TYPICAL ROOF MEMBRANE SPLICE
SCALE: 1:5



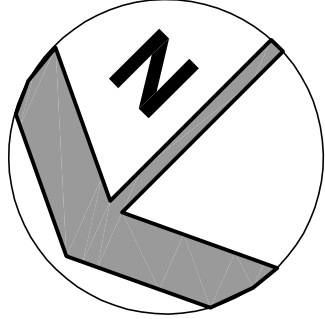
4 DETAIL - EQUIPMENT SLEEPER
SCALE: 1:10



KEY PLAN
SCALE: NTS



5 DETAIL - ROOF CURB AT EXHAUST DUCTS
SCALE: 1:10



LEGEND

APPROX	APPROXIMATELY
EX	EXISTING ITEM
GALV	GALVANIZED
MIN	MINIMUM
SIM	SIMILAR
TYP	TYPICAL
WI	WITH

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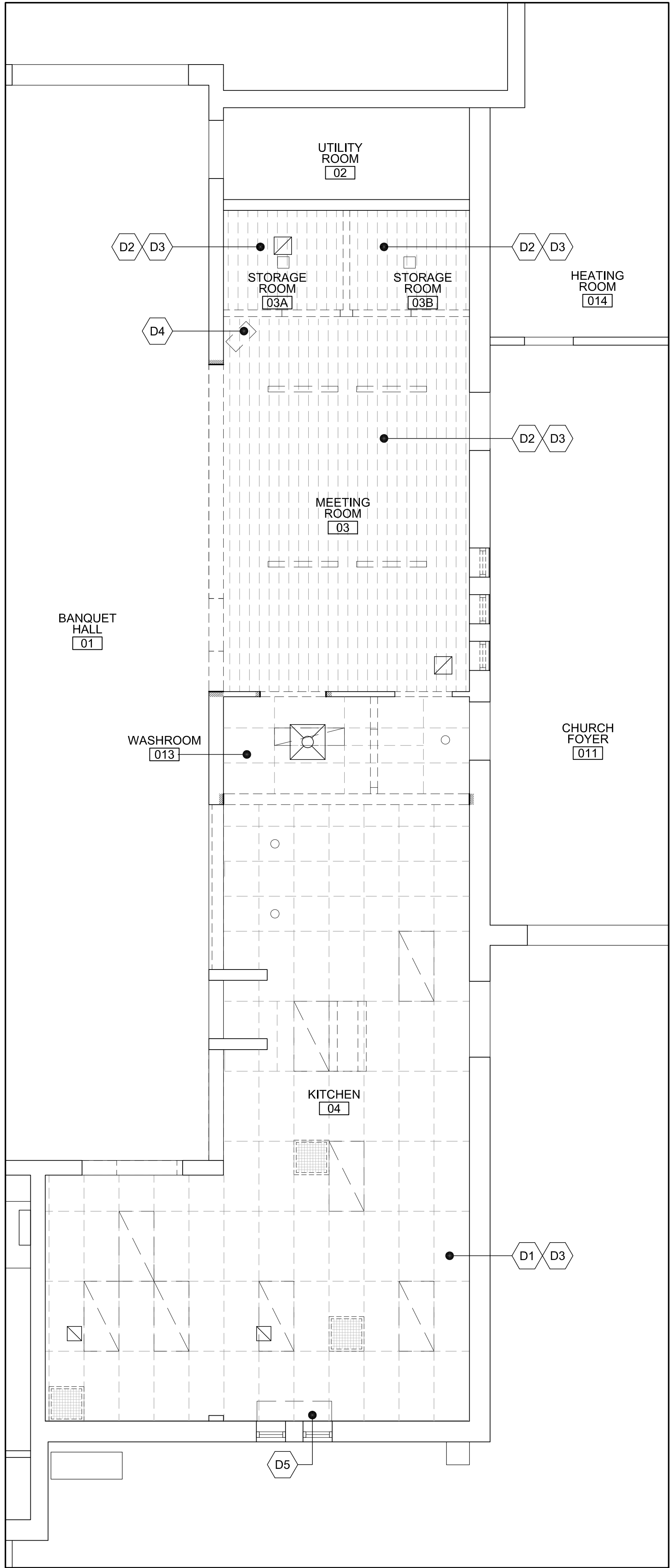
ROOF PLAN

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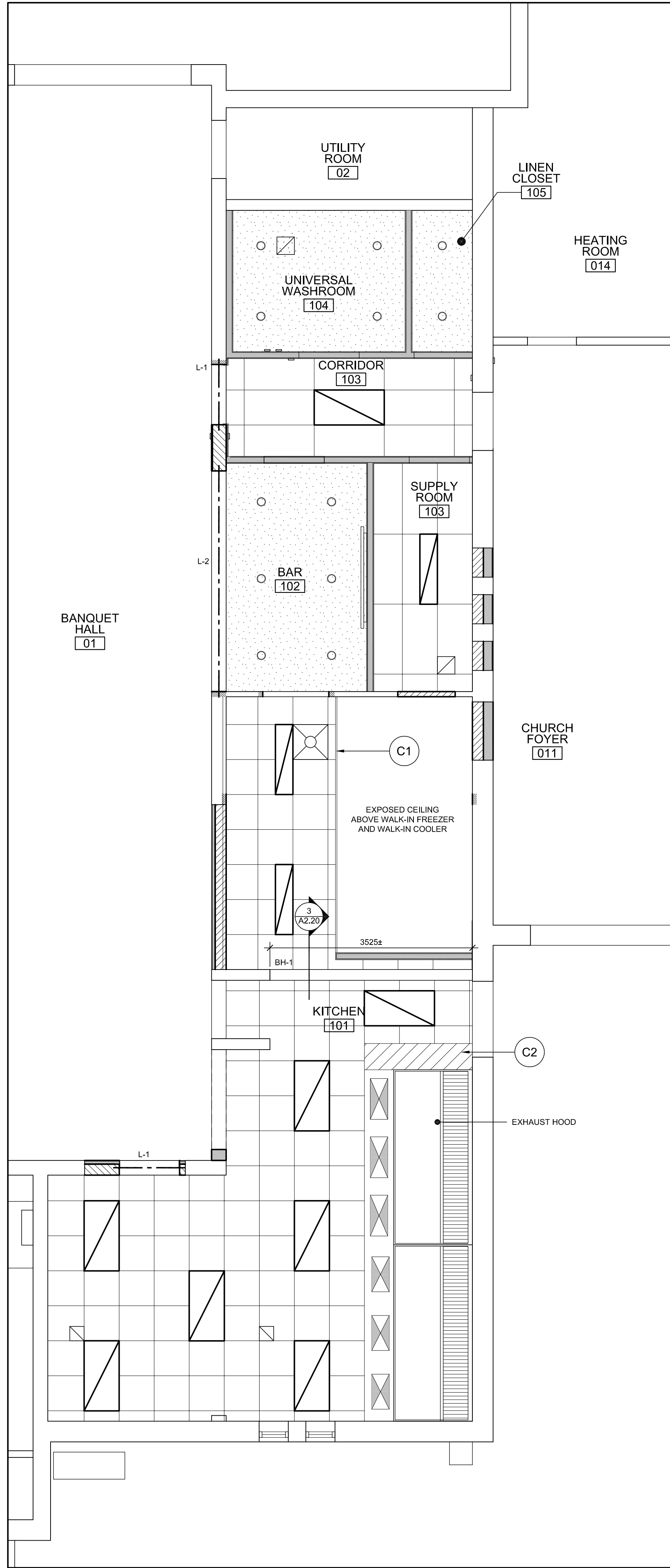


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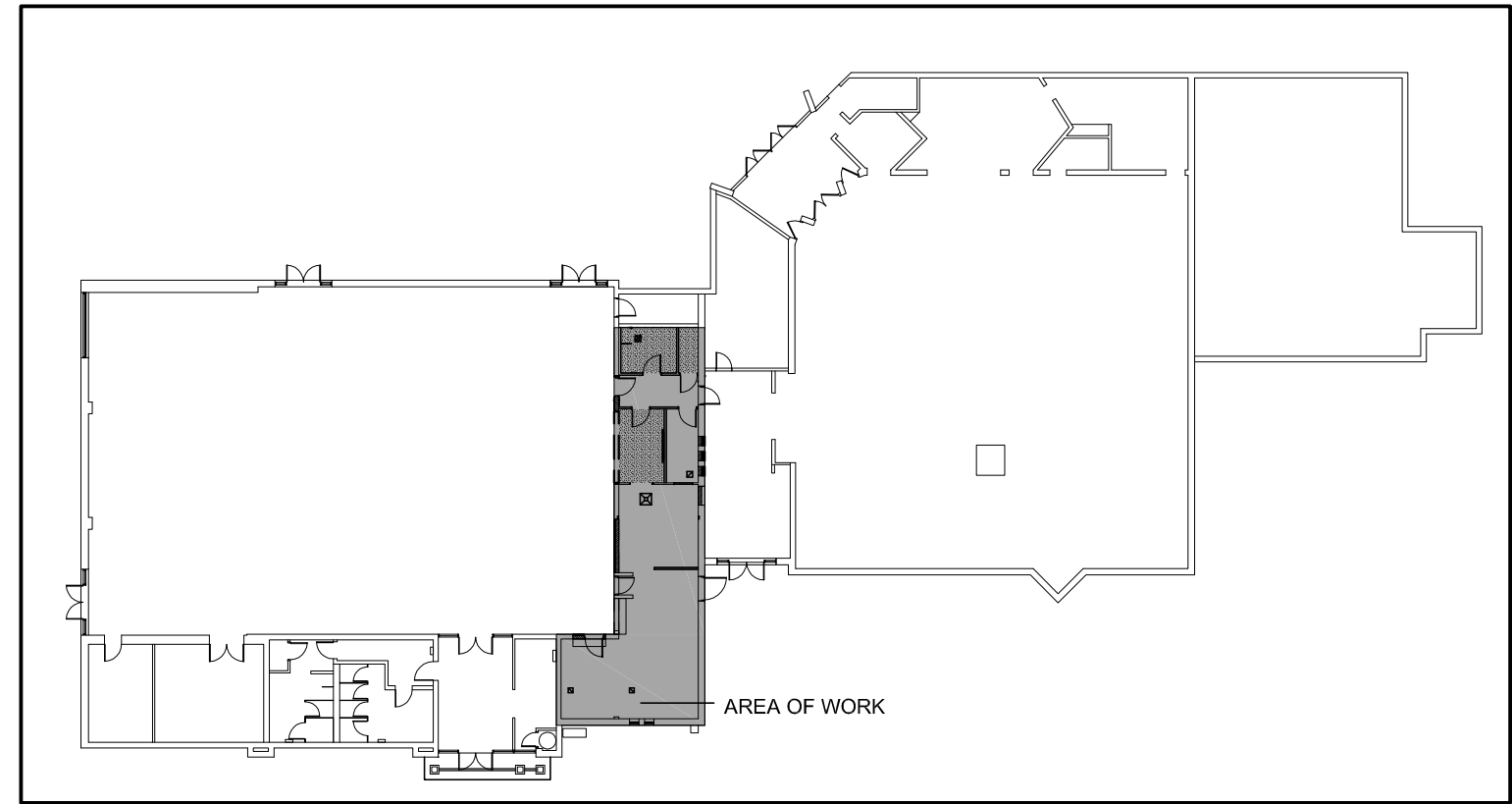
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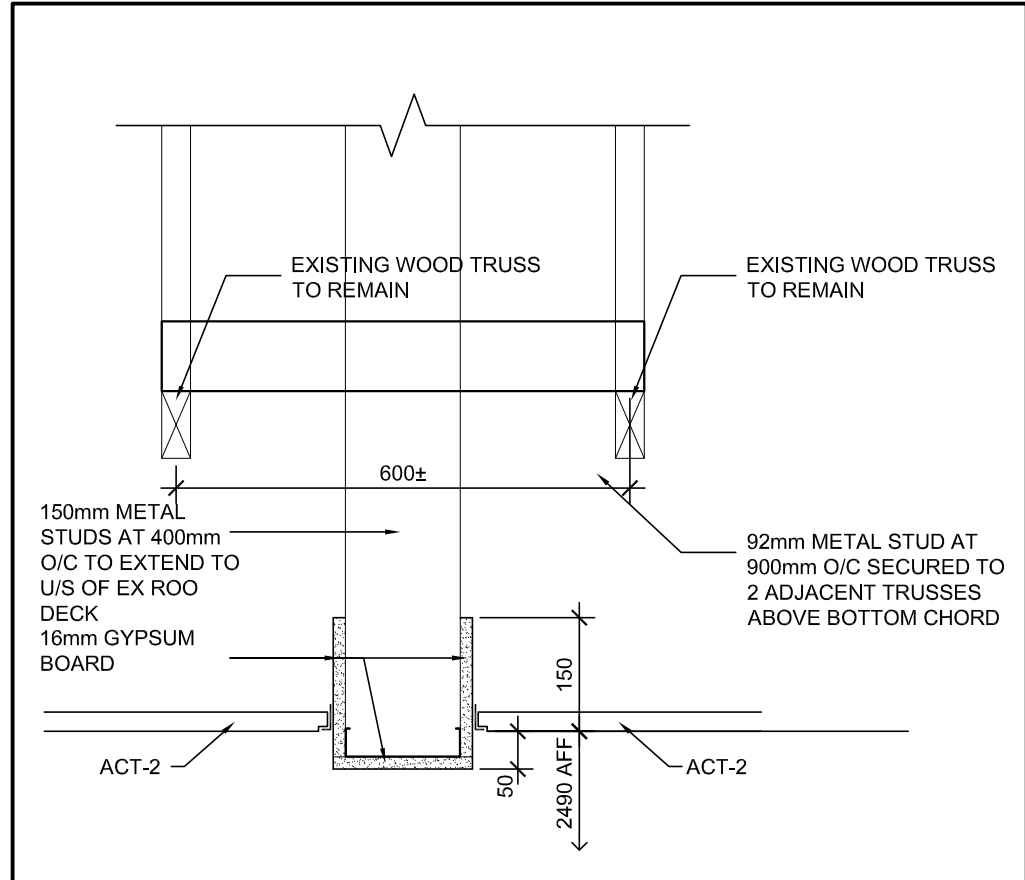
1 DEMOLITION REFLECTED CEILING PLAN
A2.20 SCALE: 1:50



2 REFLECTED CEILING PLAN
A2.20 SCALE: 1:50



KEY PLAN
SCALE: NTS



3 DETAIL - BULKHEAD BH-1
A2.20 SCALE: 1:10

GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS.
- CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. TAKE CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES, ETC. WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION.
- TRANSITIONS BETWEEN NEW AND EXISTING FINISHES TO BE MADE SMOOTH AND CONTINUOUS.
- REFER TO ELECTRICAL DRAWINGS FOR ACTUAL FIXTURE TYPES.
- MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E. LIGHT FIXTURES, DUCTWORK, ETC. **ARE FOR REFERENCE ONLY AND ARE NOT INCLUSIVE**. REFER TO MECHANICAL AND ELECTRICAL FOR ALL RELATED WORK REQUIRED.

DEMOLITION NOTES

- D1 REMOVE AND DISCARD EX ACOUSTIC CEILING TILES, T-BAR GRID & PERIMETER TRACK IN THE NOTED AREA OF WORK
- D2 REMOVE AND DISCARD EX WOOD SLAT CEILING IN THE NOTED AREA OF WORK REFER TO MECHANICAL AND ELECTRICAL
- D3 REMOVE AND DISCARD EX LIGHT FIXTURES IN THE NOTED AREA OF WORK REFER TO ELECTRICAL
- D4 REMOVE AND TURN OVER TO THE OWNER THE EXISTING WALL MOUNTED TV AND BRACKET
- D5 REMOVE AND DISPOSE OF EXISTING WALL MOUNTED AC UNIT. REFER TO AND COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DISCONNECTS.

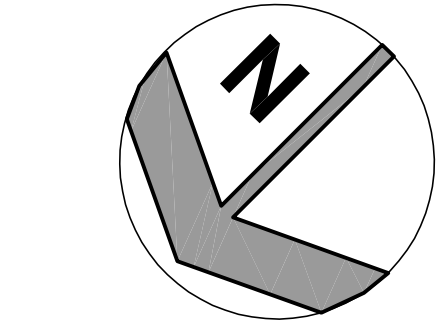
CONSTRUCTION NOTES

- C1 PROVIDE CLOSURE PANELS FROM THE TOP OF THE WALK-IN COOLER/FREEZER TO U/S OF FINISHED CEILING
- C2 PROVIDE 450mm x 600mm 16 ga STAINLESS STEEL CEILING PANELS PANELS

GRAPHIC RCP LEGEND

NOTE: REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES
- MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E. DUCTWORK, PIPING, LIGHT FIXTURES, ETC. **ARE FOR REFERENCE ONLY AND ARE NOT INCLUSIVE**. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL RELATED FIXTURES.

- 600x1200 LIGHT FIXTURE (REFER TO ELECTRICAL)
- 600x1200 LIGHT FIXTURE TO BE REMOVED (REFER TO ELECTRICAL)
- CEILING MOUNTED 1200 LONG LIGHT FIXTURE TO BE REMOVED (REFER TO ELECTRICAL)
- NEW GYPSUM BOARD CEILING
- DENOTES 610 x 1220 SUSPENDED ACOUSTIC CEILING TILE
- DENOTES 610 x 1220 SUSPENDED ACOUSTIC CEILING TILE TO BE REMOVED
- RETURN AIR GRILLE TO BE REMOVED
- RETURN AIR GRILLE
- DIFFUSER
- EXHAUST GRILLE
- NEW LINTEL - REFER TO STRUCTURAL DRAWINGS
- POT LIGHT



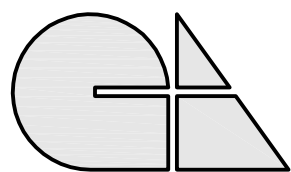
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REFLECTED CEILING
PLAN

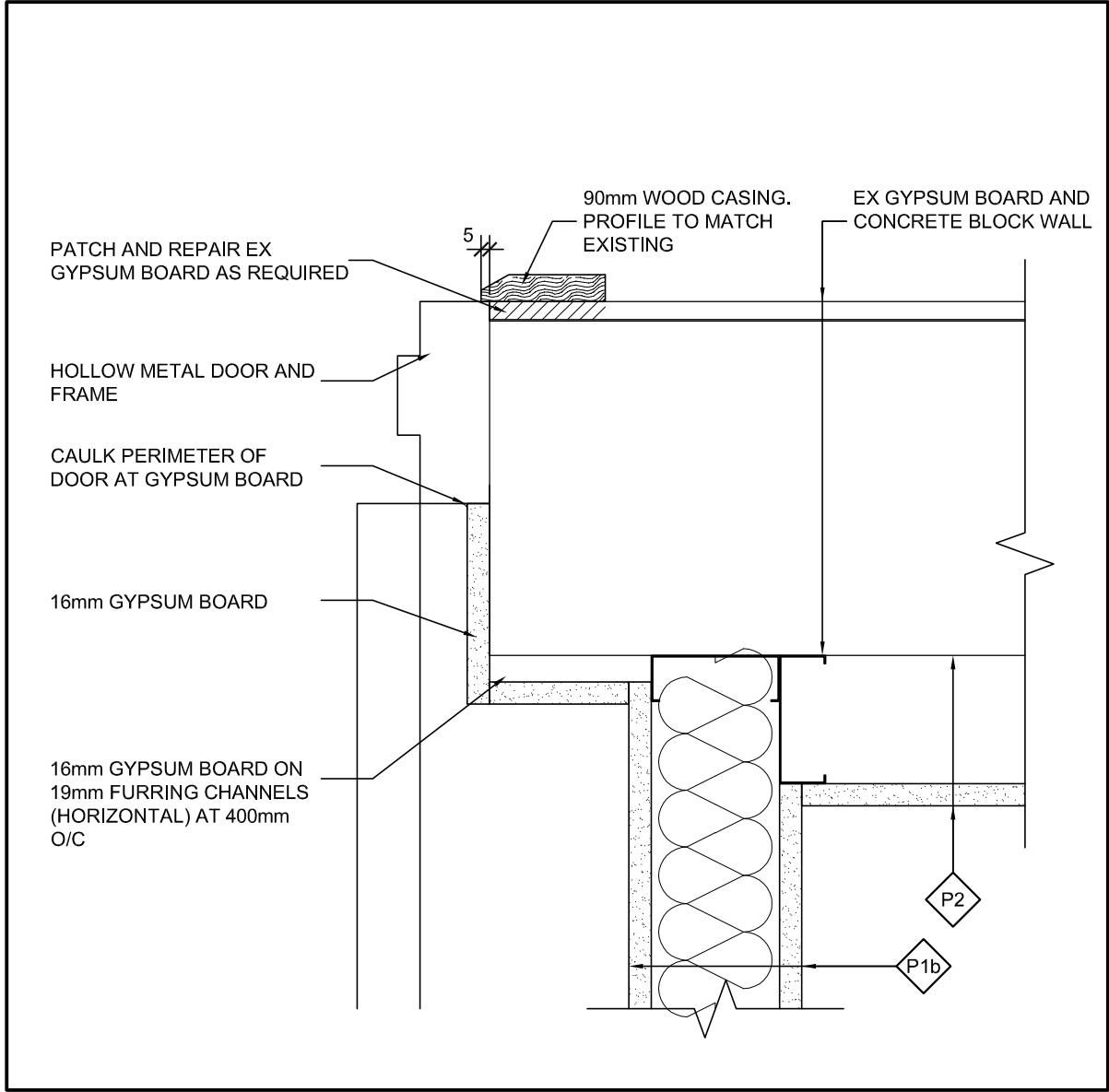
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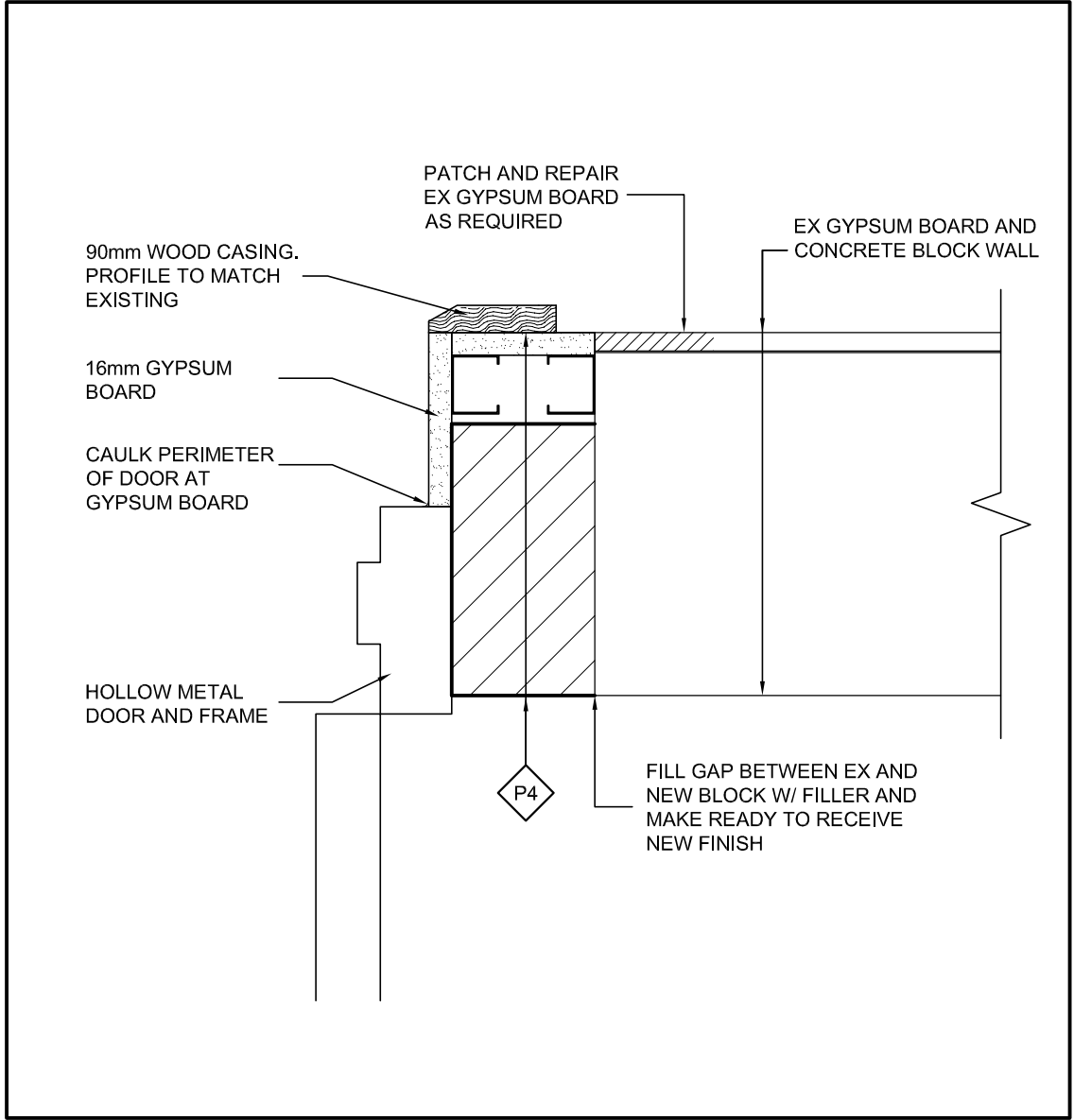
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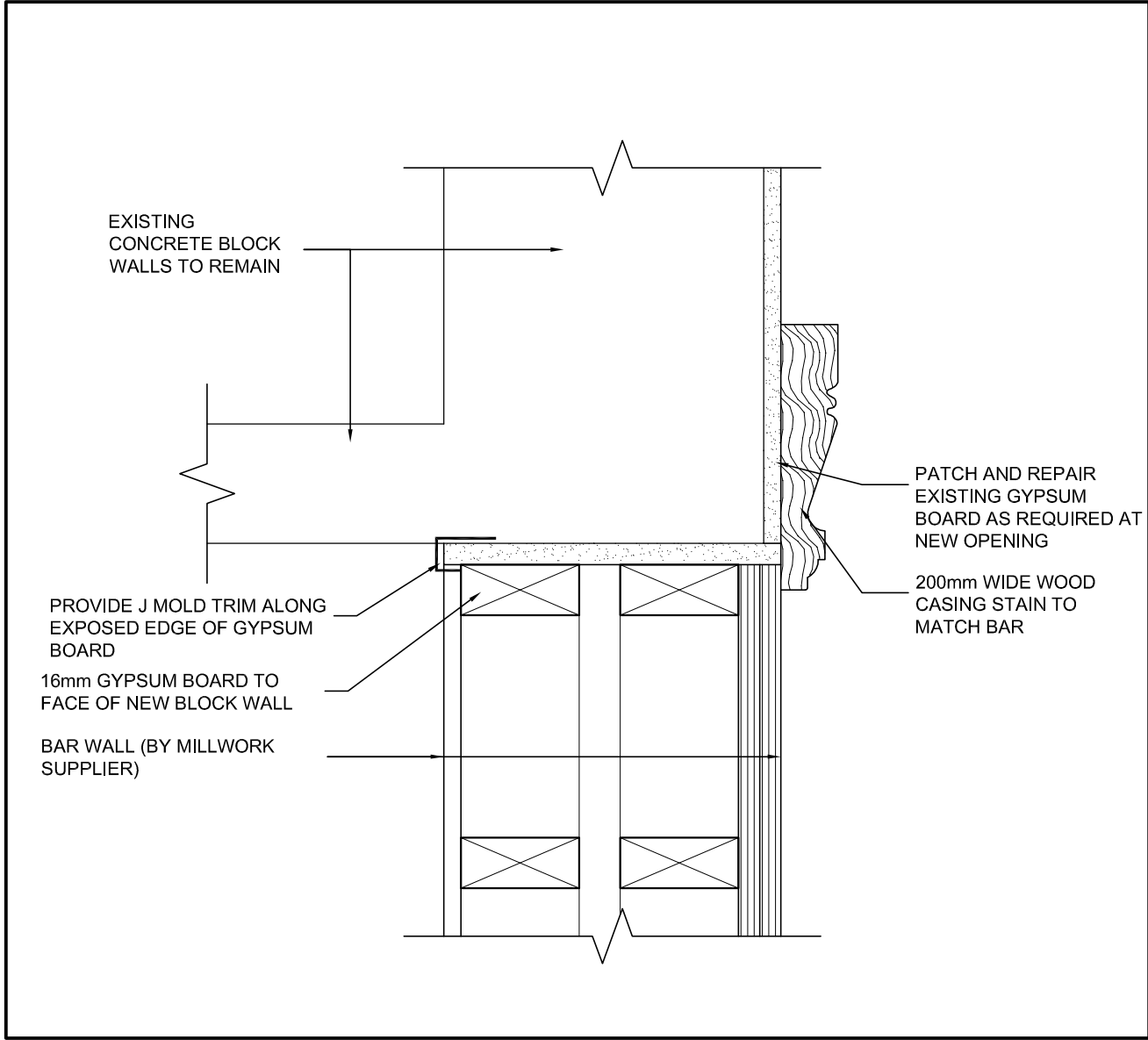
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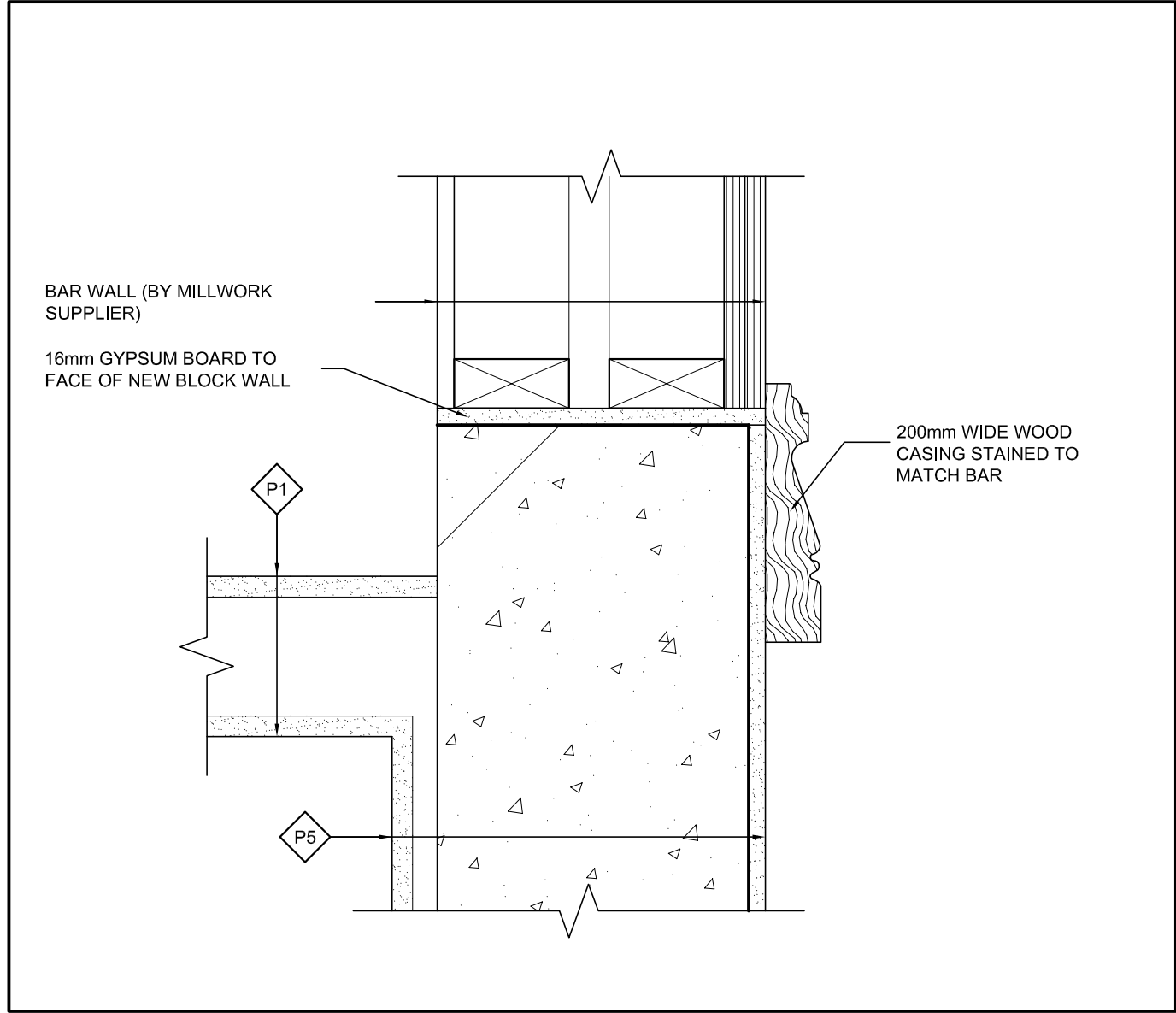
4 DETAIL - DOOR JAMB
A3.00 SCALE: 1:5



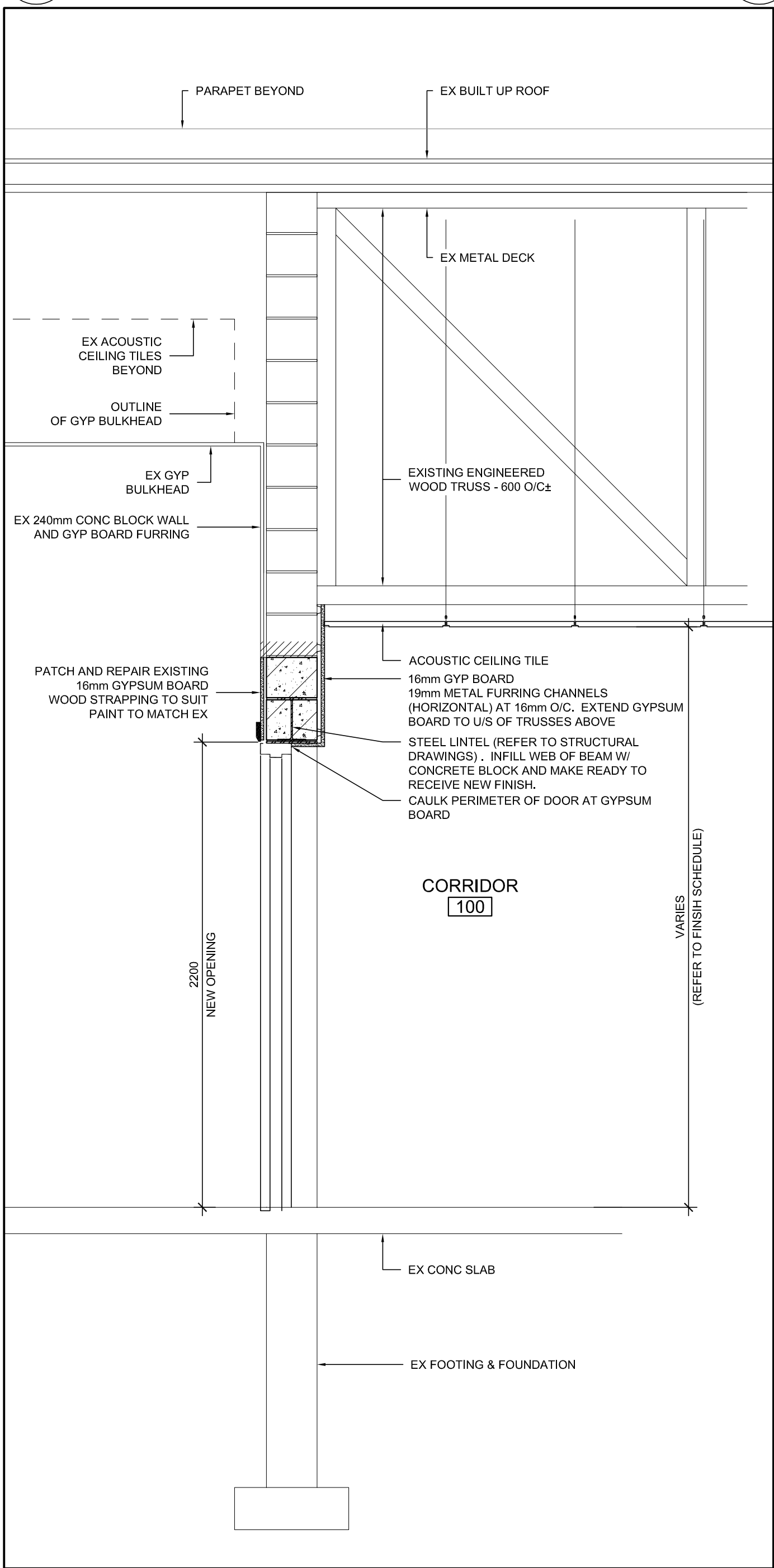
5 DETAIL - DOOR JAMB
A3.00 SCALE: 1:5



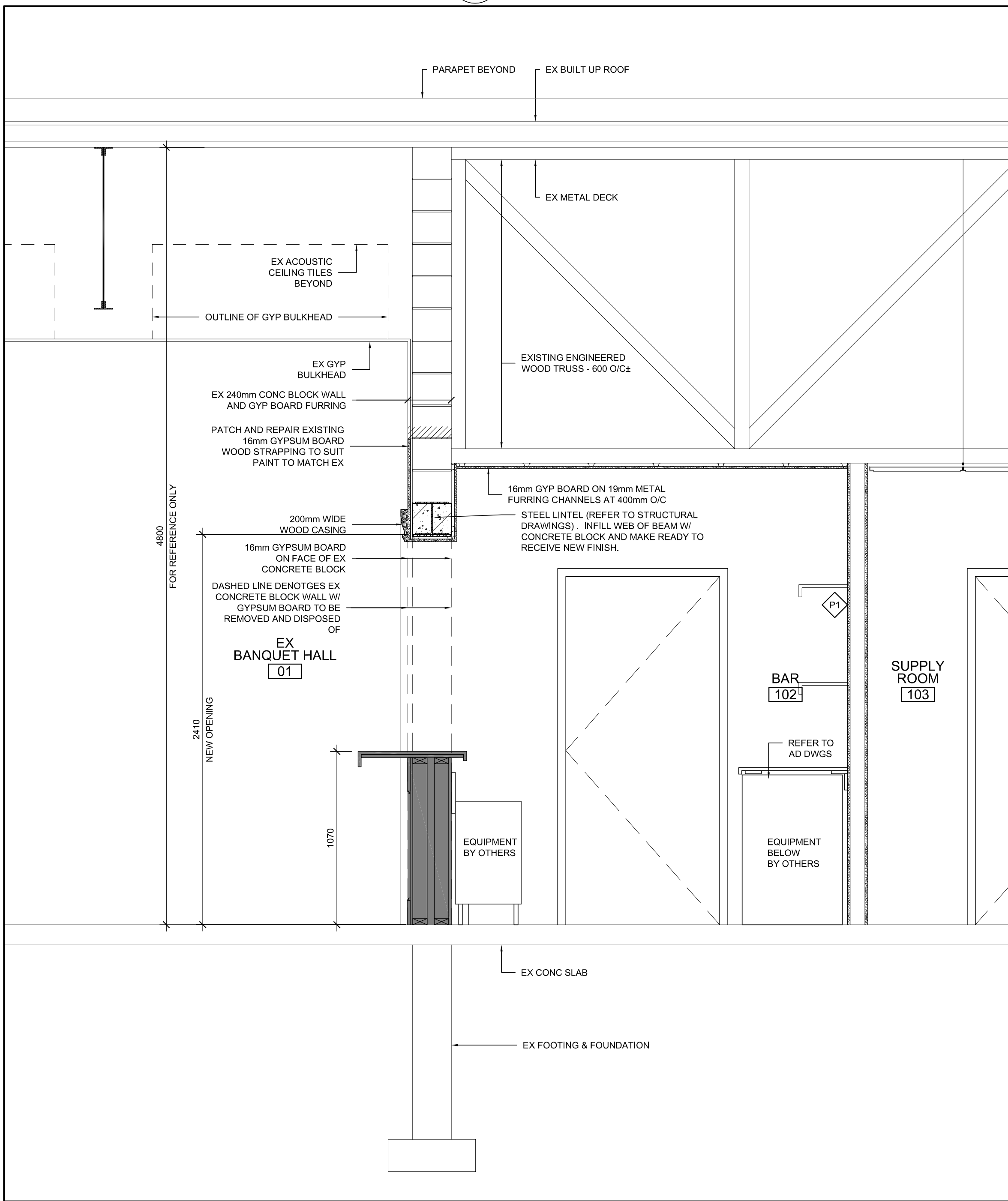
6 DETAIL - WALL AT BAR OPENING
A3.00 SCALE: 1:5



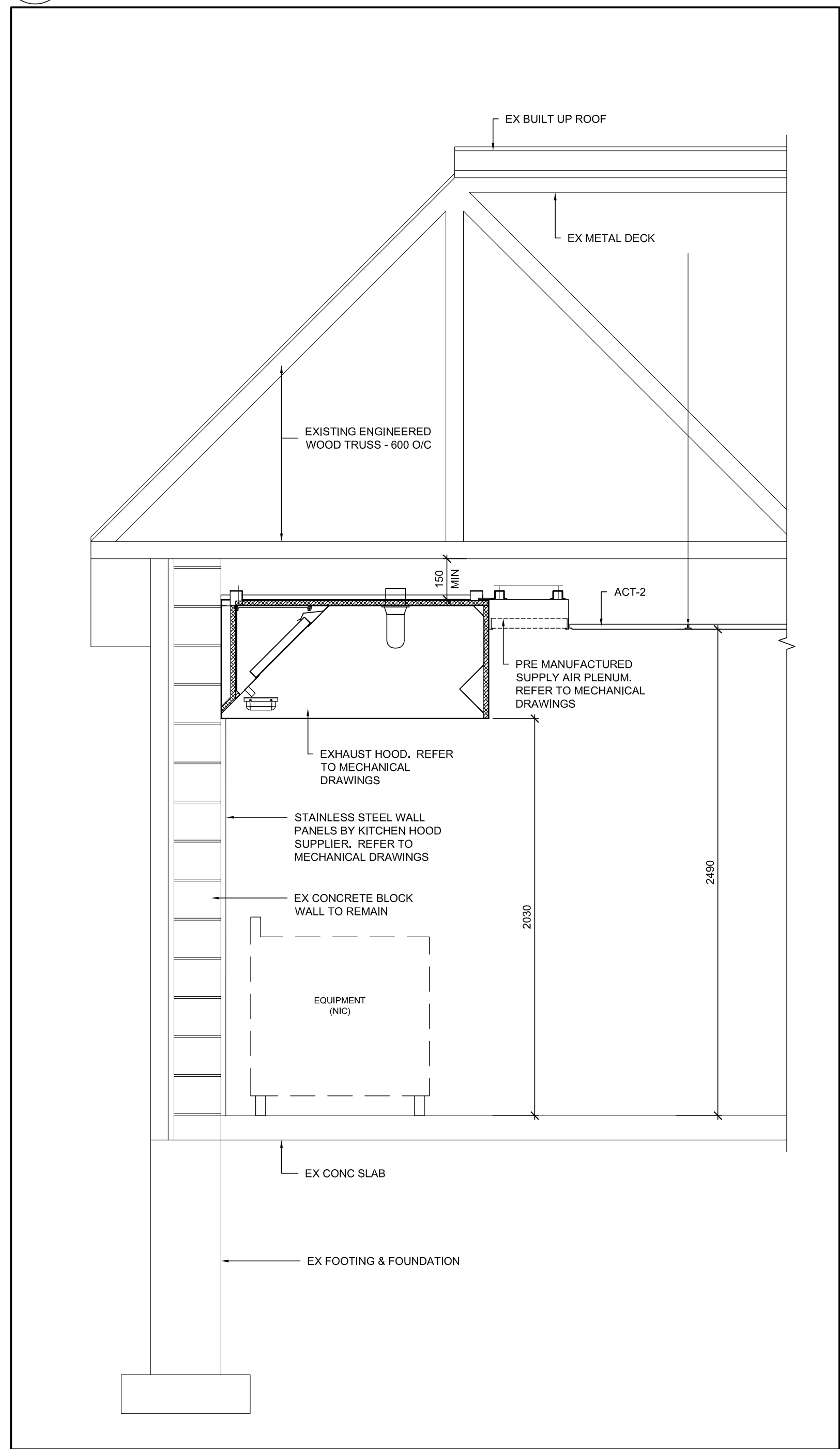
7 DETAIL - WALL AT BAR OPENING
A3.00 SCALE: 1:5



1 WALL SECTION - DOOR OPENINGS
A3.00 SCALE: 1:20



2 WALL SECTION - BAR OPENING
A3.00 SCALE: 1:20



3 WALL SECTION- EXHAUST HOOD
A3.00 SCALE: 1:20

LEGEND
DW DISH WASHER
EX EXISTING ITEM
FR FRIDGE
FZ FREEZER
GYP GYPSUM
MIN MINIMUM
NIC NOT IN CONTRACT
O/C ON CENTER
SIM SIMILAR
T/R TO REMAIN
VCT VINYL COMPOSITE TILE

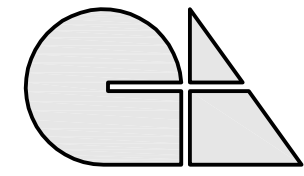
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WALL SECTIONS AND
DETAILS

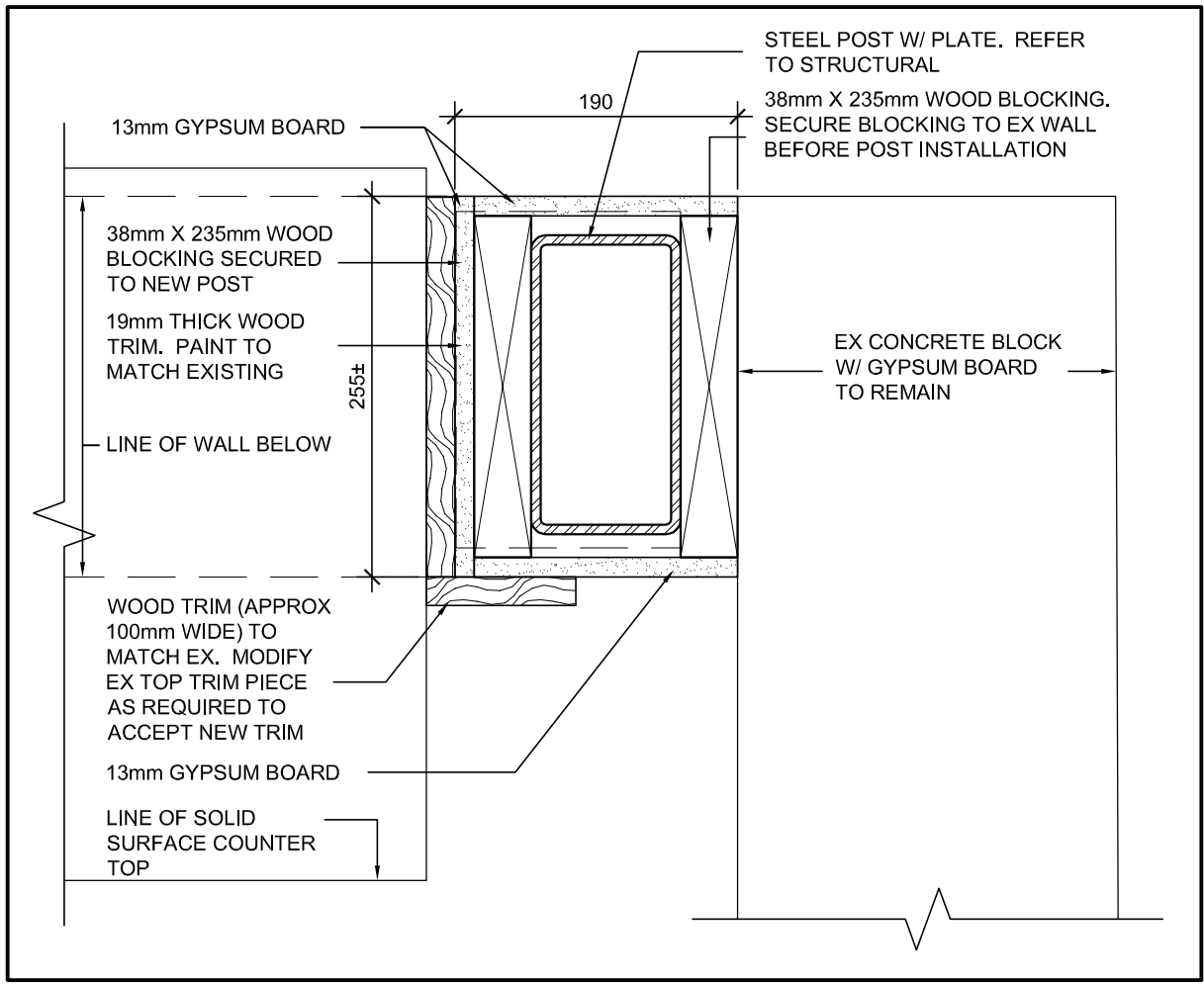
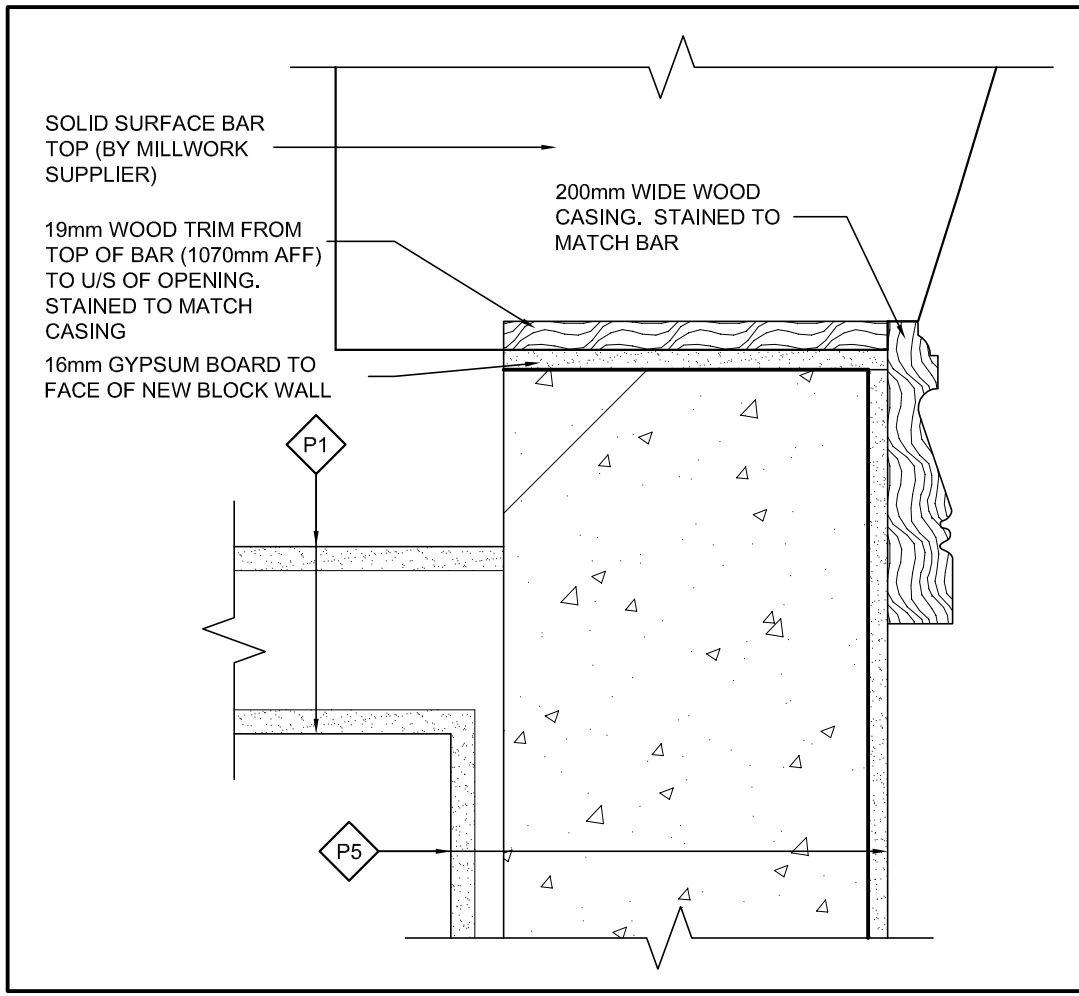
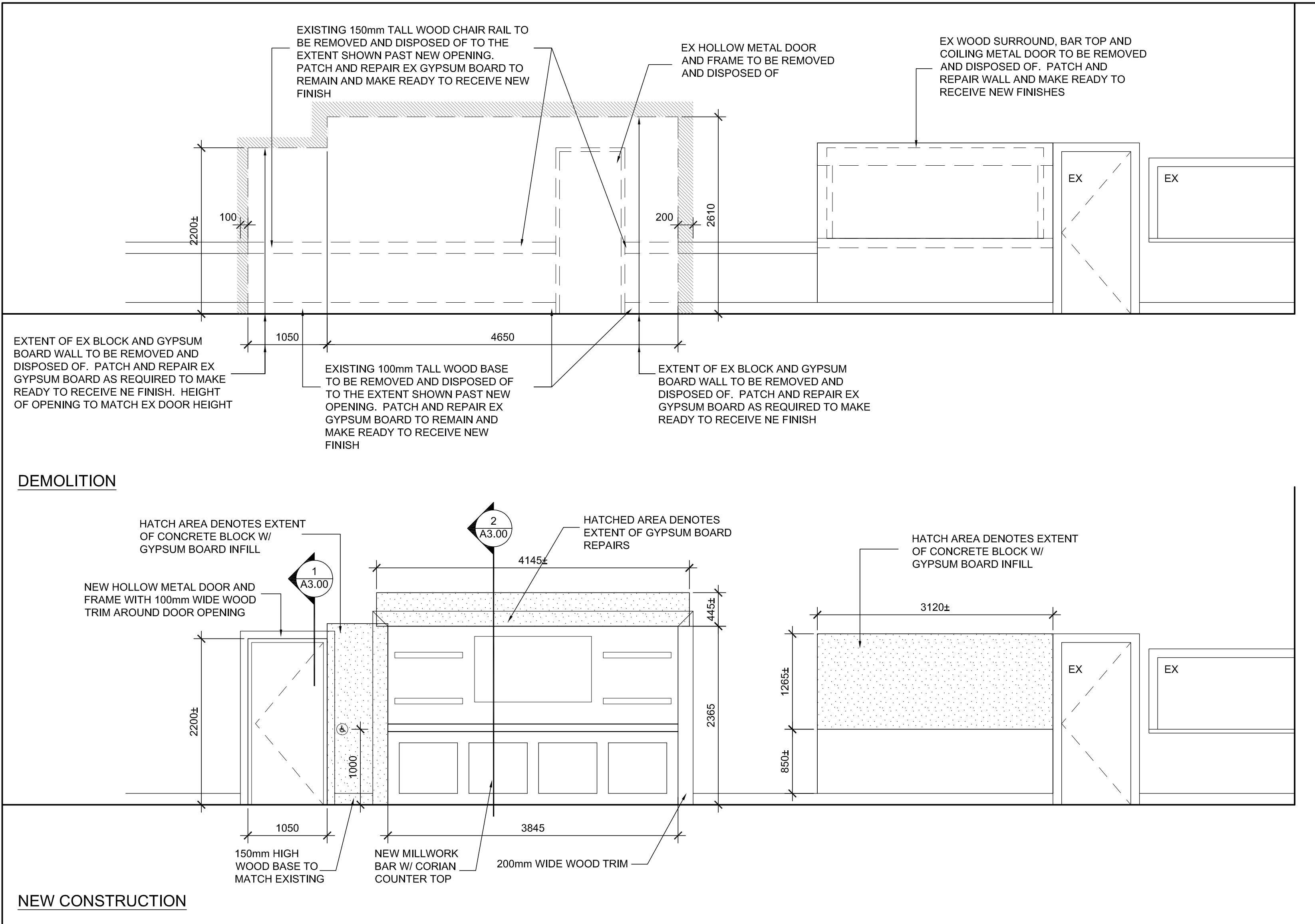
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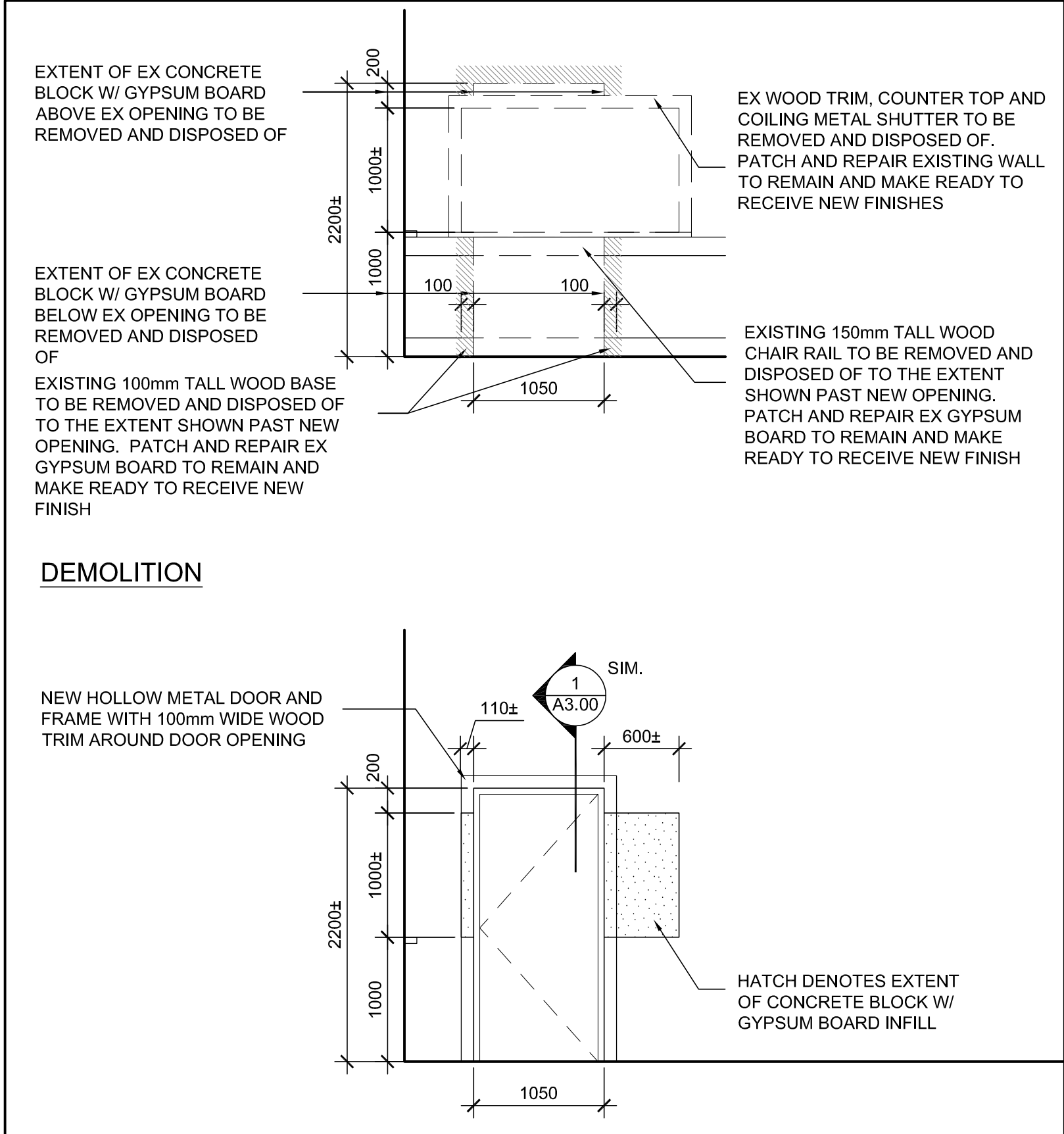
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A3.00-Wall Sections and Details.dwg



5 DETAIL - WALL AT BAR OPENING
SCALE: 1:5

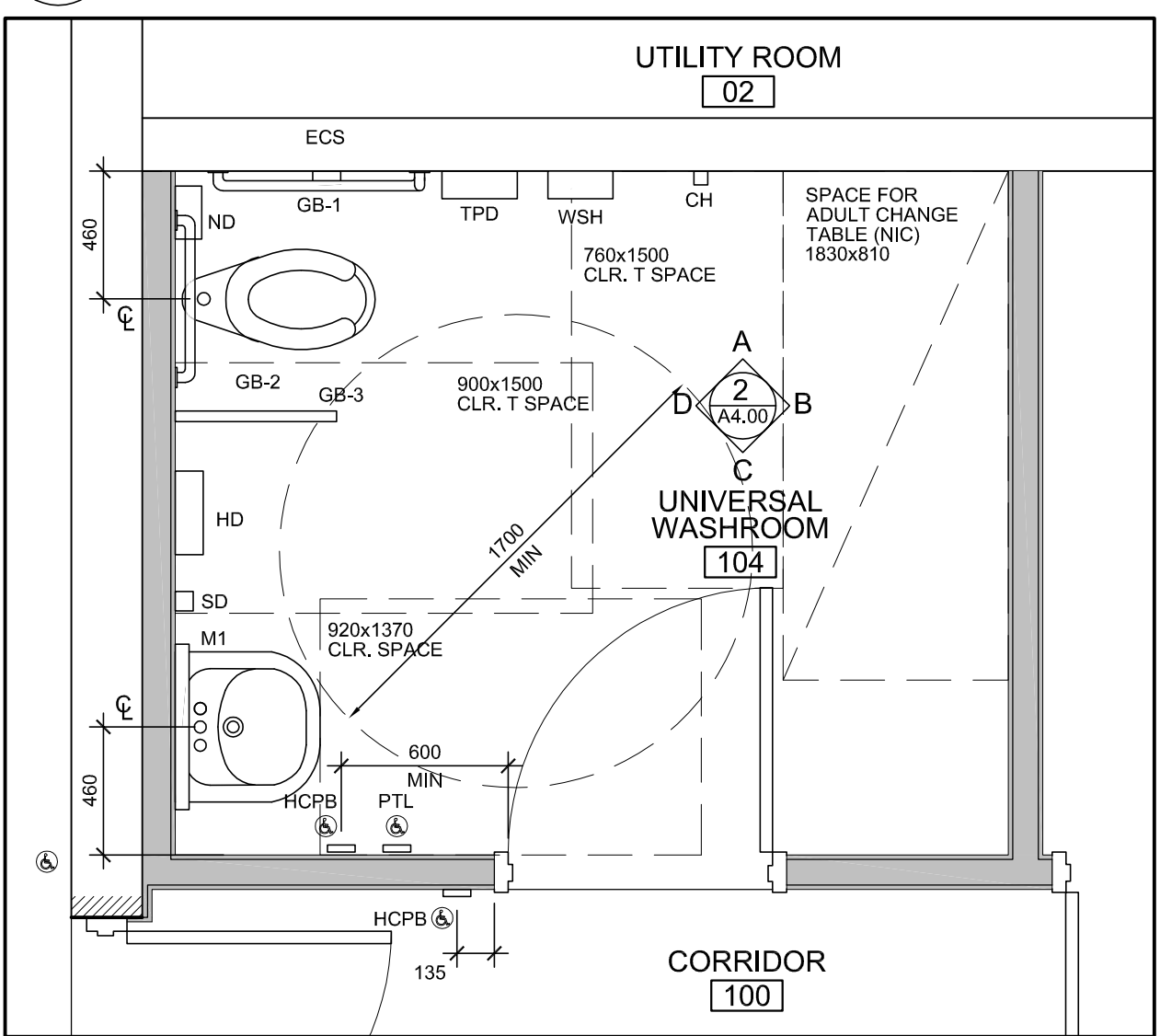
6 DETAIL AT NEW POST
SCALE: 1:5



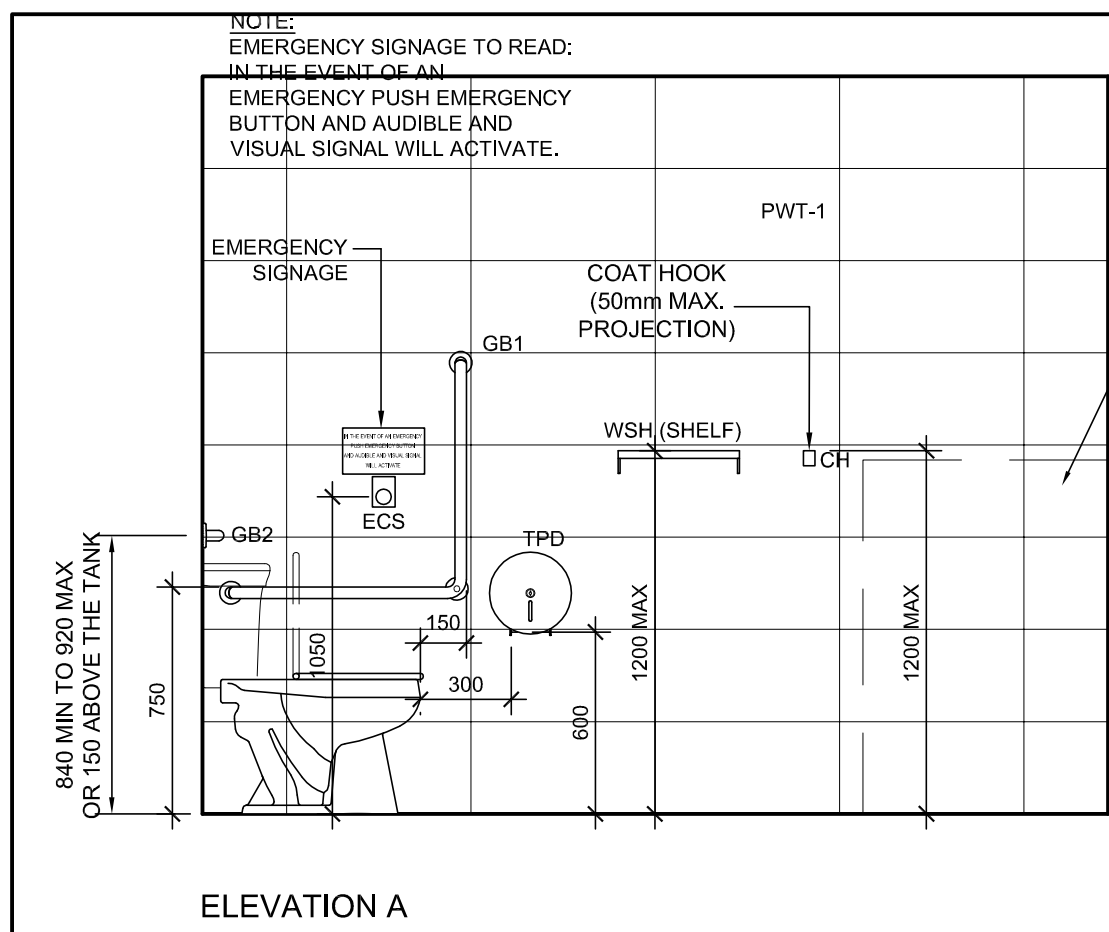
NEW CONSTRUCTION

4 INTERIOR ELEVATION
SCALE: 1:50

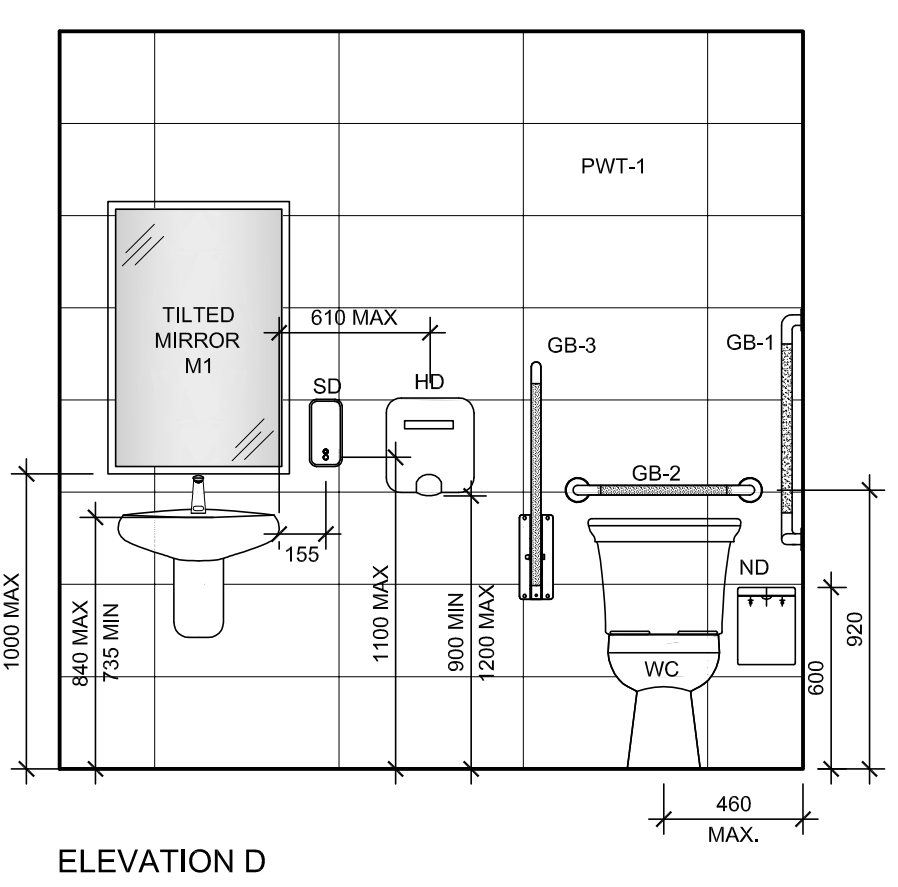
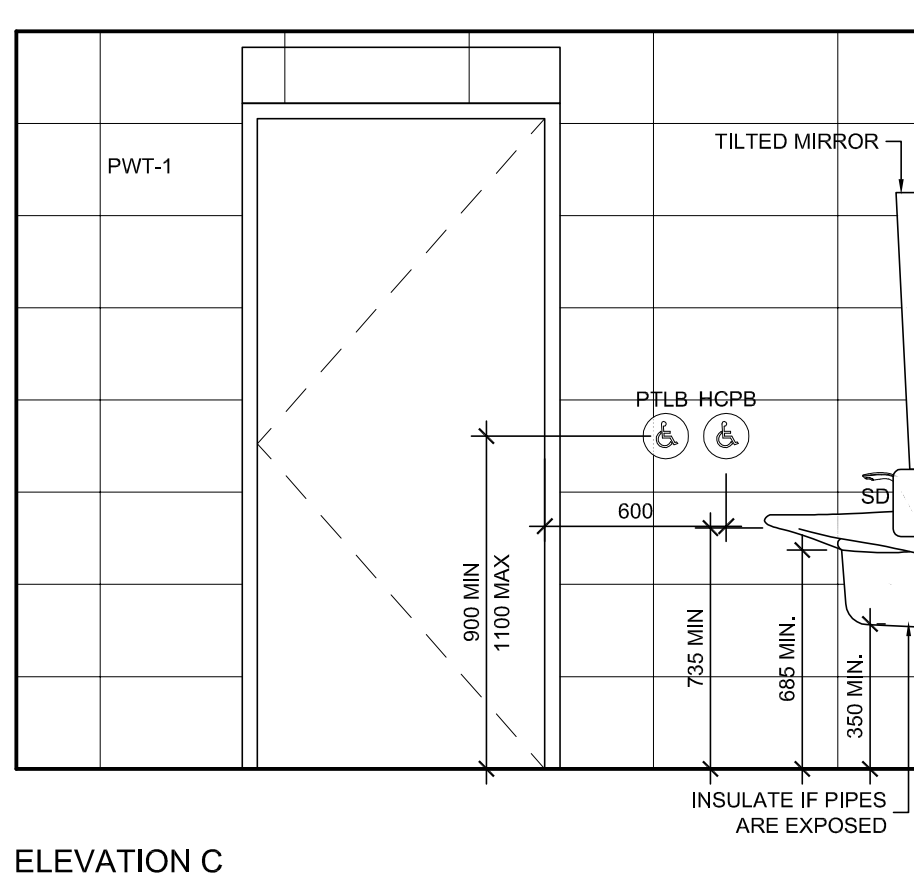
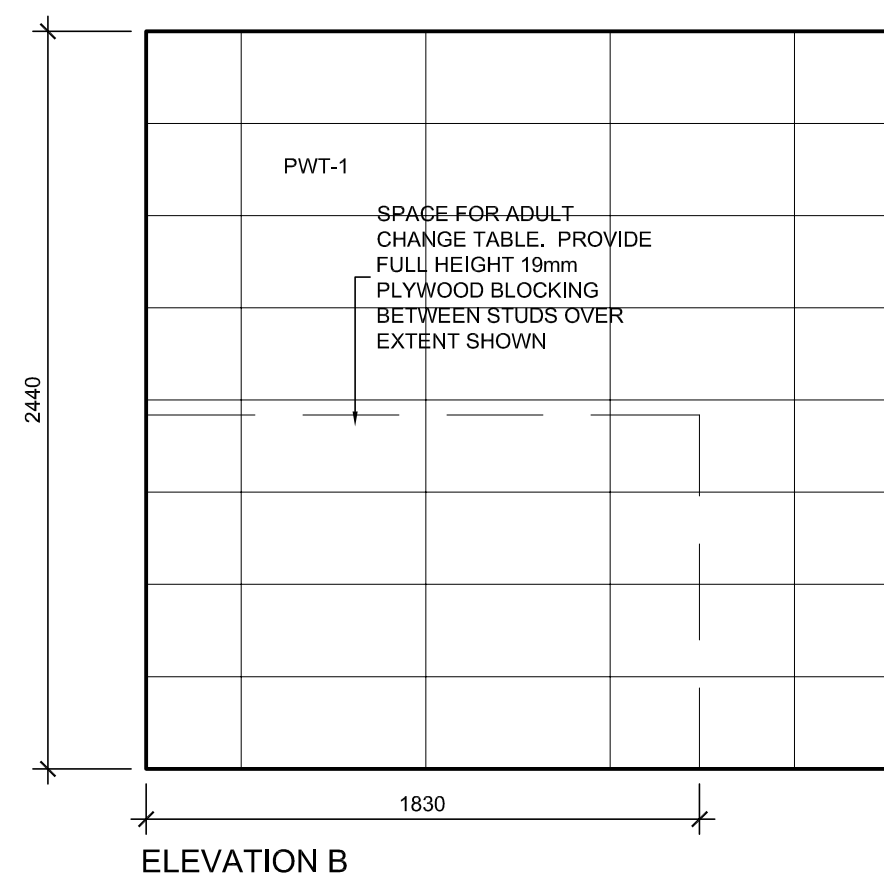
3 INTERIOR ELEVATION
SCALE: 1:50



1 ENLARGED FLOOR PLAN - UNIVERSAL W/R
SCALE: 1:25



2 ENLARGED FLOOR PLAN - UNIVERSAL W/R
SCALE: 1:25



LEGEND		
CH	COAT HOOK	
CLR	CLEAR	
CL	CENTER LINE	
ECS	EMERGENCY CALL SYSTEM	
EX	EXISTING	
GB-X	GRAB BAR	
GYP	GYPSUM	
HCPB	HANDICAP PUSH BUTTON	
HD	HAND DRYER	
MAX	MAXIMUM	
M-X	MIRROR	
MIN	MINIMUM	
ND	NAPKIN DISPOSAL	
NIC	NOT IN CONTRACT	
PT	PORCELAIN TILE	
PTL	PUSH TO LOCK	
SD	SOAP DISPENSER	
SIM	SIMILAR	
T	TRANSFER	
TPD	TOILET PAPER DISPENSER	
TR	TO REMAIN	
WC	WATER CLOSET	
WSH	WALL SHELF	

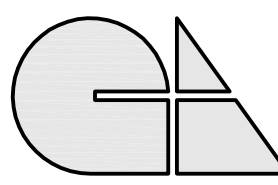
NO	REVISIONS	DATE
2	ISSUED FOR TENDER	2025-05-28
1	ISSUED FOR PERMIT	2025-05-22

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HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION
2110 TRAFALGAR RD, OAKVILLE
ON L6H 7H2

INTERIOR ELEVATIONS

GRGURIC
ARCHITECTS
INCORPORATED



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

SCALE: AS NOTED	PROJECT: 2025-04
START DATE: MAR 2025	
DRAWN DW	DRAWING: A4.00
CHECKED J.G.	
PRINT DATE 05/28/25	

DOOR SCHEDULE

ROOM NAME	DOOR NO.	DOORS								FRAMES				PANIC BAR	DOOR CLOSER	REMARKS
		WIDTH	HEIGHT	THK.	FIRE	TYPE	MAT'L	FINISH	GLASS	TYPE	MAT'L	FINISH	GLASS			
CORRIDOR	100 A	900± (EX)	2150± (EX)	44	-	EX	HM (EX)	PAINT	-	EX	HM (EX)	PAINT	-		●	CL,PDO,HCPB; EXISTING DOOR TO REMAIN - REPAINT
CORRIDOR	100 B	950	2150	44	-	A	HM	PAINT	-	1	HM	PAINT	-		●	CL, PDO,HCPB
KITCHEN	101 A	950	2150± (EX)	44	-	A	HM	PAINT	-	1	HM	PAINT	-		●	CL; HEIGHT OF FRAME TO FIT IN EXISTING OPENING (FIELD VERIFY)
KITCHEN	101 B	900± (EX)	2150± (EX)	44 (EX)	-	EX	HM (EX)	PAINT	-	EX	HM (EX)	PAINT	-			EXISTING DOOR TO REMAIN - REPAINT
KITCHEN	101 C	1220± (EX)	2150± (EX)	44 (EX)	-	EX	HM (EX)	PAINT	-	EX	HM (EX)	PAINT	-			EXISTING DOOR TO REMAIN - REPAINT
BAR	102 A	950	2150	44	-	A	HM	PAINT	-	1	HM	PAINT	-		●	CL; HEIGHT OF FRAME TO FIT IN EXISTING OPENING (FIELD VERIFY) ⚠
SUPPLY ROOM	103 A	950	2150	44	-	A	HM	PAINT	-	1	HM	PAINT	-		●	
UNIVERSAL WASHROOM	104 A	950	2150	44	-	A	HM	PAINT	-	1	HM	PAINT	-		●	CL, PDO, HCPB
LINEN CLOSET	105 A	950	2150	44	-	A	HM	PAINT	-	1	HM	PAINT			●	

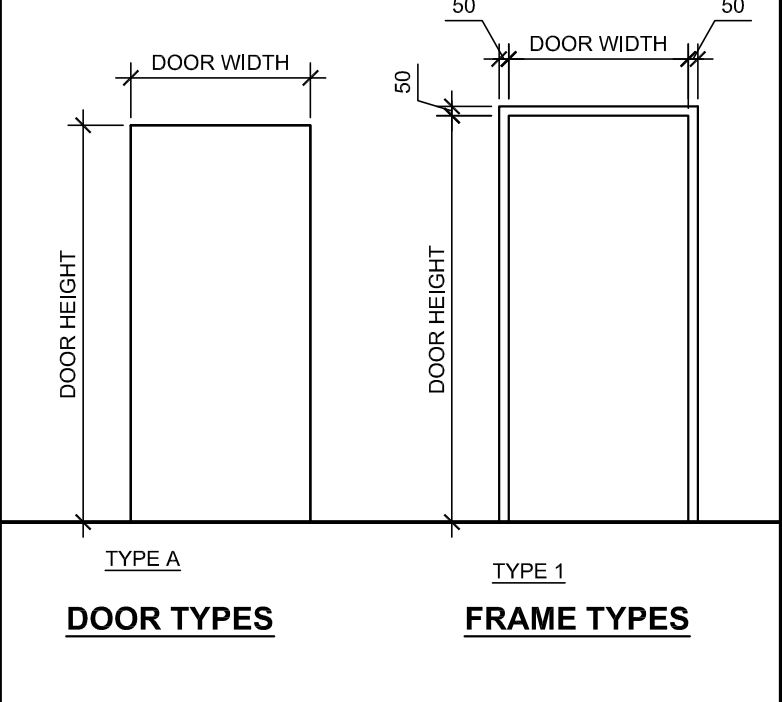
GENERAL NOTES

- GENERAL CONTRACTOR TO FIELD VERIFY ALL DOOR & FRAME / SCREEN QUANTITIES & DIMENSIONS PRIOR TO FABRICATION
- GENERAL CONTRACTOR TO CO-ORDINATE LOCATION & INSTALLATION OF PUSH BUTTON / AUTOMATIC DOOR OPERATIONS AND ALL OTHER RELATED TRADES. TO BE SUPPLIED BY GENERAL CONTRACTOR & INSTALLED BY ELECTRICAL
- REFER TO DOOR SCHEDULE FOR FIRE RESISTANCE RATINGS FOR DOOR, FRAMES & GLAZED FRAMES / SCREENS.
- ALL HM, DOORS & FRAMES TO BE PAINTED.
- REFER TO PLANS / DETAILS & WALL SECTIONS FOR LOCATIONS OF REQUIRED STEEL LINTELS / ANGLES (BY GENERAL CONTRACTOR) AND ANY FORMED ALUMINUM CLOSURE ANGLES OR SUPPORTS FOR DOOR / FRAMES (BY DOOR / FRAME INSTALLERS)
- AT ALL EXTERIOR DOORS PROVIDE CONTINUOUS SEALANT & BACKER ROD AROUND PERIMETER EDGES OF FRAME (TYP. FOR BOTH EXTERIOR & INTERIOR SIDES)
- REFER TO DOOR HARDWARE SCHEDULE FOR ALL HOLD OPEN DEVICES, STRIKES, SECURITY, DOOR OPENERS, CLOSERS, PANIC HARDWARE, OVERHEAD STOPS, PUSH & KICK PLATES, ETC. & ANY OTHER DOOR HARDWARE REQUIREMENTS.

DOOR SCHEDULE LEGEND

ALUM ANOD (CL) ALUMINUM ANODIZED CLEAR
ANOD (CO) ANODIZED COLOURED
CH CONTINUOUS HINGE
CL CLOSER
DC DOOR CONTACT
DG DOUBLE GLAZED
DGS DOUBLE GLAZED SEALED INSULATING UNITS
EX EXISTING
FGL FIRE GLASS
HCPB HANDICAPPED PUSH BUTTON
HM HOLLOW METAL
INS THERMALLY INSULATED DOOR / FRAME
LSG LAMINATED SAFETY GLASS
MAT'L MATERIAL

MC MINERAL CORE
MIN MINUTE
OHS OVER HEAD STOP
PC PARTICLE CORE WOOD DOOR
PH PANIC HARDWARE
PLAM PLASTIC LAMINATE
PDO POWER DOOR OPERATOR
REL RELOCATED ITEM
TG TEMPERED GLASS
TH THICKNESS
TH THRESHOLD
TH SOLID CORE WOOD DOOR
SCWD SEALED UNIT (GLAZING)
SU WOOD
WD WOOD
WS WEATHER STRIPPING



ROOM FINISH SCHEDULE

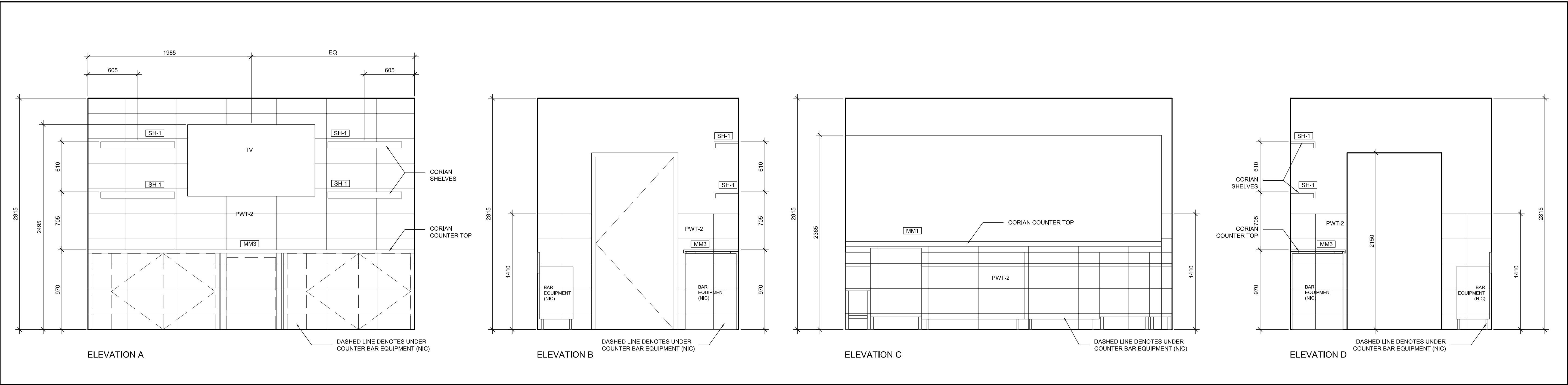
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE	WALL		CEILING			REMARKS
				MAT'L	FINISH	MAT'L	FINISH	HEIGHT	
GROUND FLOOR									
100	CORRIDOR	LVT	RB	EX CONC. BLK GYP. BD	PAINT PAINT	ACT-1	-	2745mm	
101	KITCHEN	QT	QT	EX CONC. BLK GYP. BD	PAINT PAINT	ACT-2	-	2490mm	
101A	WALK-IN COOLER	QT	-						
101B	WALK-IN FREEZER			BY EQUIPMENT MANUFACTURER					
102	BAR	LVT	RB	GYP. BD	PAINT PWT-2	GYP BD	PAINT	2745mm	
103	SUPPLY ROOM	LVT	RB	EX CONC. BLK GYP. BD.	PAINT PAINT	ACT-1	-	2745mm	
104	UNIVERSAL WASHROOM	LVT	-	CONC. BLK BACKER BD	PWT-1 PWT-1	GYP. BD	PAINT	2440mm	
105	LINEN CLOSET	LVT	RB	EX CONC. BLK GYP. BD.	PAINT PAINT	GYP. BD.	PAINT	2440mm	

ROOM FINISH SCHEDULE LEGEND

ACT ACOUSTIC CEILING TILE
BLK BLOCK
CAR CARPET
CAR. T CARPET TILES
CB CONCRETE BLOCK
CONC CONCRETE
CT CERAMIC TILE
CWT CERAMIC WALL TILES
EXP EXPOSED
GYP. BD GYPSUM BOARD
LVT LUXURY VINYL TILE
PT PORCELAIN TILE
QT QUARRY TILE
RB RUBBER BASE
RST RUBBER STAIR TREAD
SC SEALED CONCRETE
SHT. FLR SHEET FLOORING
SPORT FLR SPORTS FLOOR STRUCTURE
TBD TO BE DECIDED
VCT VINYL COMPOSITE TILE
WD WOOD
WRGB WATER RESISTANT GYPSUM BOARD

LEGEND

CH COAT HOOK
CLR CLEAR
CL CENTER LINE
ECS EMERGENCY CALL SYSTEM
EX EXISTING
GB-X GRAB BAR
GYP GYPSUM
HCPB HANDICAP PLUSH BUTTON
HD HAND DRYER
MAX MAXIMUM
M-X MIRROR
MIN MINIMUM
ND NAPKIN DISPOSAL
NIC NOT IN CONTRACT
PT PORCELAIN TILE
PTL PUSH TO LOCK
SD SOAP DISPENSER
SIM SIMILAR
T TRANSFER
TPD TOILET PAPER DISPENSER
TR TO REMAIN
WC WATER CLOSET
WSH WALL SHELF

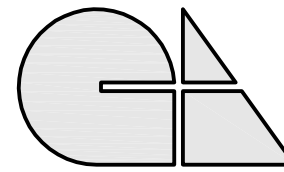


1 ENLARGED FLOOR PLAN - UNIVERSAL W/R
A4.00 SCALE: 1:25

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DRAWN DW	DRAWING: A4.10
CHECKED J.G	
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Technical drawing of a kitchen island showing side and end elevations with dimensions and material specifications.

Side Elevation Dimensions:

- Overall width: 655
- Top bar thickness: 19mm
- Top bar material: 19mm PLYWOOD, PAINT EXPOSED SURFACES BLACK
- Top bar radius: 10mm RADIUS
- Top bar height: 50
- Top bar support height: 95
- Top bar support width: 205
- Top bar support height: 305
- Top bar support material: 19mm THICK SOLID SURFACE BAR TOP
- Top bar support radius: 10mm RADIUS
- Top bar support height: 100
- Top bar support material: UNDER COUNTER LIGHTS (BY ELECTRICAL CONTRACTOR)
- Top bar support material: 19mm MELAMINE PANEL
- Top bar support height: 675

End Elevation Dimensions:

- Overall height: 150
- Top bar support material: 19mm MELAMINE PANEL
- Top bar support material: 19mm WOOD QUARTER ROUND, STAINED TO MATCH PANEL. TYPICAL ALL SIDES
- Top bar support material: 19mm MELAMINE PANEL

Material Specifications:

- 38mm X 89mm WOOD STUDS AT 400mm O/C

19mm THICK SOLID SURFACE COUNTER TOP

19mm PLYWOOD

19mm GABLE BEYOND

CONTINUOUS CAULK ALONG PERIMETER

19mm X100mm CONTINUOUS WOOD BLOCKING

10mm RADIUS

670

40

970

Plan view of the wall assembly. The total width is 3975. The assembly consists of a 50mm thick exterior layer, followed by a 1550mm wide section containing four 19mm GABLE PANELS and two 19mm END PANELS, separated by 70mm gaps. This is followed by a 645mm wide section, and another 1550mm wide section with four 19mm GABLE PANELS and two 19mm END PANELS, separated by 70mm gaps. The assembly ends with a 50mm thick interior layer. The total height is 970. The plan view includes labels for '19mm GABLE PANEL', '19mm END PANEL', 'MILLWORK FILLER PANEL', and 'PLAN'. A circular callout '4' with 'A5.00' is located at the top right, and a circular callout 'A' is located at the bottom center.

PLAN

900

300

70 50

50 70

6
A5.00

7
A5.00

50mm X 50mm X 6mm
STEEL SUPPORT
ANGLE

50mm X 50mm X 6mm
STEEL EDGE BRACE

50mm X 50mm X 6mm
STEEL SUPPORT
ANGLE

ELEVATION A

300

100

19mm THICK SOLID SURFACE SHELF

10mm RADIUS

300

100

50mm X 50mm X 6mm CONTINUOUS STEEL ANGLE, PAINTED BLACK

50mm X 50mm X 6mm STEEL ANGLE PAINTED BLACK

38mm X 185mm CONTINUOUS WOOD BLOCKING BETWEEN STUDS AT SUPPORT LOCATIONS

Technical drawing of a 100mm x 75mm x 6mm STEEL PLATE with the following dimensions and features:

- Overall dimensions: 100mm (width) x 75mm (height).
- Top edge: 10mm RADIUS.
- Left edge: 75mm (total height), 35mm (height of the top section), and 40mm (height of the bottom section).
- Bottom edge: 100mm (total width), 20mm (width of the left section), and 60mm (width of the right section).
- Internal features: Two 13mm diameter holes (13mm ϕ HOLES) and a 100mm x 75mm x 6mm STEEL PLATE (100mm x 75mm x 6mm STEEL PLATE W/ 4 13mm ϕ HOLES, PAINTED BLACK).

Diagram illustrating the plan view of the proposed road layout. The layout shows a road section with a width of 4.75m and a length of 17.40m. A north arrow is present, indicating the orientation of the road. The diagram also shows the 'LINE OF EXISTING WALL BELOW'.

19mm THICK SOLID SURFACE COUNTER TOP

475

200

10mm RADIUS

19mm PLYWOOD, PAINT EXPOSED SURFACES BLACK

EXISTING CONCRETE BLOCK WALL TO REMAIN

1188

823

560

223

PLAN

SCALE 1:20

11
45.00



19mm×50mm WOOD BLOCKING TYPICAL.

635

51

19mm DOOR.

19mm ADJUSTABLE SHELVES.

6mm BACKBOARD.

PULL HANDLES

19mm ADJUSTABLE SHELVES.

2200

100

75

19mm×100mm WOOD BLOCKING TYPICAL.

BASE BY FLOORING CONTRACTOR.

SECTION
SCALE 1:10

LEGEND
O/C ON CENTER

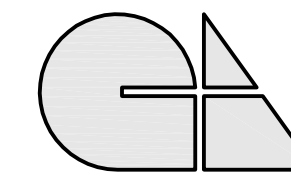
1	ISSUED FOR TENDER	2025-05-28
NO	REVISIONS	DATE

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MILLWORK DETAILS

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S:\Data\2025\2025-04-Oakville_Croatian_Parish_Hall_Renovations\65Drawing\12-Working Draw

GENERAL NOTES

1. THESE DOCUMENTS ARE TO BE USED ONLY BY THE PARTY WITH WHOM DFE HAS ENTERED INTO A CONTRACT.
2. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN.
3. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2024 ONTARIO BUILDING CODE (OBC) LATEST EDITION INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY. CONSTRUCTION PRACTICES SHALL BE ACCORDING TO THE SAME. USE THE LATEST VERSIONS OF STANDARDS AND CODES LISTED BELOW. ELEMENTS OF STRUCTURES AND NON-STRUCTURAL COMPONENTS AND EQUIPMENT AND THEIR CONNECTIONS TO BE DESIGNED PER OBC LATEST EDITION.
4. DO NOT SCALE THESE DRAWINGS. ERRORS MADE BECAUSE OF SCALING THESE DRAWINGS ARE RESPONSIBILITY OF THE PARTY WHO USED THE DRAWINGS.
5. WHERE DISCREPANCIES EXIST, THE MOST STRINGENT SHALL PREVAIL. NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. STRUCTURAL DRAWINGS TO BE USED TOGETHER WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.
7. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF HOLES, SUMP PITS, TRENCHES, CURBS, BOLTS, SLEEVES, OPENINGS, ETC.
8. THE CONTRACTOR SHALL BECOME FAMILIARIZED WITH THE PROJECT ON SITE, INCLUDING EXISTING CONSTRUCTION. ANY ALTERATIONS FROM ASSUMED IN THE DRAWINGS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. THE ENGINEER MUST APPROVE SUBSTITUTIONS FOR SPECIFIED PRODUCTS AND MATERIALS.
10. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS - O REG. 213/91.
11. THE CONTRACTOR SHALL PROVIDE DESIGN AND CONSTRUCTION OF HORIZONTAL AND VERTICAL SHORING AND TEMPORARY BRACING AS PER O REG 213/91. THE CONTRACTOR SHALL PROVIDE BRACING, SHORING, SHEET PILING ETC. TO PROTECT EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK.
12. AN INDEPENDENT INSPECTION AND TESTING COMPANY SHALL PROVIDE TESTS TO PROVE THAT CONSTRUCTION IS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REQUIRED TESTING SHALL BE AS PER THE TESTING AND INSPECTION TABLE BELOW.
13. DOYTCH & FILO ENGINEERING WILL PROVIDE GENERAL REVIEW OF CONSTRUCTION. DOYTCH & FILO ENGINEERING WILL REVIEW SHOP DRAWINGS FOR GENERAL CONFORMITY WITH THE CONTRACT DOCUMENTS PREPARED BY 'DOYTCH & FILO'. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 'DOYTCH & FILO' IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REVIEWED SHOP DRAWINGS DO NOT RELIEVE CONTRACTORS FROM RESPONSIBILITY FOR THEIR MISTAKES.
14. SHOP DRAWINGS MUST BE SEALED BY PROFESSIONAL ENGINEER BEFORE BEING SUBMITTED TO DFE FOR REVIEW, U.N.O.
15. THE OWNER AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS, AND THEY SHALL INVITE THE ENGINEER TO COMPLETE GENERAL REVIEWS.

REQUIRED SUBMITTALS

1. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION WHERE APPLICABLE.
2. REVIEW OF THE SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAIL DESIGN INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS TECHNIQUES OF CONSTRUCTION AND INSTALLATION AND FOR COORDINATION OF THE WORK OF ALL SUB-TRADES.
3. THE APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF THE FITTING OF BUILDING COMPONENTS. ANY DISCREPANCIES IN THE SHOP DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

ITEM	REQ'D SUBMITTAL?	ENGINEER'S STAMP REQ'D?	NOTES
REBAR SHOP DRAWINGS	YES	NO	INCL CONC BLOCK REINF
CONCRETE MIX DESIGNS	YES	NO	
MASONRY GROUT MIX DESIGN	YES	NO	
BLOCK MILL REPORT	YES	NO	
STRUCTURAL STEEL SHOP DRAWINGS	YES	YES	FOR CONNECTIONS ONLY
MISCELLANEOUS STEEL SHOP DRAWINGS	YES	YES	STAMP FOR STAIRS, LADDERS AND GUARDS
STEEL DECK SHOP DRAWINGS	YES	YES	
COLD FORMED STEEL FRAMING SHOP DWGS.	YES	YES	
FALL ARREST ANCHORS	YES	YES	
PRECAST SHOP DRAWINGS	YES	YES	

MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO THE LATEST CSA CAN/CSA-A165 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15MPa BASED ON NET CROSS-SECTIONAL AREA.
2. REINFORCING BARS SHALL CONFORM TO CAN/CSA G30.18 GRADE 400W FOR REINFORCING STEEL WITH MINIMUM YIELD STRENGTH OF FY = 400 MPa.
3. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR LOAD BEARING BLOCK. TYPE N MORTAR SHALL BE USED FOR BRICK VENEER OR DECORATIVE NON-LOAD BEARING BLOCK.
- MORTAR TYPE S: MIN. COMPRESSIVE STRENGTH - 12.0 MPa
- MORTAR TYPE N: MIN. COMPRESSIVE STRENGTH - 7.5 MPa
- GROUT SHALL CONFORM TO CAN/CSA A179
- GROUT MIN. COMPRESSIVE STRENGTH - 20 MPa
4. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF LATEST CSA STANDARDS CAN/CSA-A370, CAN/CSA-A371 AND CSA S304.
5. ALL MASONRY WALLS SHALL BE HORIZONTALLY REINFORCED. MINIMUM REQUIREMENTS WITH (4.76 mm Ø) HEAVY DUTY "LADDER" TYPE JOINT REINFORCEMENT (OR APPROVED EQUAL) AND CONTINUOUS REINFORCEMENT AT EVERY SECOND COURSE (400 mm/16").
- a. ALL JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED.
- b. REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 300mm (12") AT ALL JOINTS.
- c. PREFABRICATED CORNER AND TEE REINFORCEMENT SHALL BE USED AT ALL WALL INTERSECTIONS.
- d. REINFORCEMENT SHALL BE PLACED AS TO PROVIDE 16 mm (5/8") MORTAR COVER ON THE EXTERIOR FACE OF WALL AND 12 mm (1/2") COVER ON THE INTERIOR FACE OF WALL.
6. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS BOND BEAMS (REINFORCED WITH 1-15M) AT UNDERSIDE OF EACH FLOOR, ROOF AND AT TOP OF PARAPETS. ALSO PROVIDE BOND BEAMS AT TOP AND BOTTOM OF OPENINGS AND EXTEND 600mm PAST CORNERS. REINFORCE BOTTOM BOND BEAM WITH 1-15M. REINFORCE TOP BOND BEAM AS FOLLOWS:
- SPANS LESS THAN 1500 mm
- 200 mm DEEP BOND BEAM c/w 1-15M FULL LENGTH
- SPANS 1500 mm TO 3000 mm
- 400 mm DEEP BOND BEAM c/w 2-15M FULL LENGTH
7. IN SEISMIC ZONES, IN ADDITION TO NOTE # 6 PROVIDE CONTINUOUS BOND BEAMS (REINFORCED WITH 1-15M) AT MAXIMUM VERTICAL INTERVALS OF 2400 mm O/C.
8. ALL TIES FOR MASONRY VENEER SHALL BE DESIGNED AND SUPPLIED BY THE MASONRY CONTRACTOR IN ACCORDANCE WITH LATEST CSA STANDARDS S304 AND CAN/CSA-A370.
9. ALL BLOCK MASONRY UNITS SHALL BE CONSTRUCTED WITH FULL HEAD JOINTS, AND FULL BED JOINTS UNDER THE FULL BEARING AREAS OF THE FACE SHELLS, AND UNDER WEBS SURROUNDING THOSE CELLS TO BE FILLED WITH GROUT.
10. WHERE MASONRY THICKNESS CHANGES, GROUT 100% SOLID MIN. 200mm (8") THE LOWER/THICKER PORTION OF THE WALL.
11. GROUT 100% SOLID BLOCKS AT PARAPETS.
12. THE INTERSECTION OF ALL MASONRY WALLS SHALL BE TOOTHED OR CONTINUOUSLY REINFORCED WITH JOINT REINFORCEMENT.
13. ALL MASONRY BENEATH CONCENTRATED LOADS (SUCH AS BEAMS, LINTELS, AND JOISTS) SHALL BE SOLID BLOCKS OR 100% GROUTED BLOCKS FOR A MINIMUM DEPTH OF 400 mm (16") OR 3 TIMES THE LENGTH OF BEARING AND PROJECTING A MINIMUM OF 200 mm (8") OR THE LENGTH OF BEARING BEYOND EACH EDGE OF BEARING, UNLESS OTHERWISE NOTED OR SHOWN.
14. MAINTAIN SUPPORT OF MASONRY LINTELS FOR A MINIMUM OF SEVEN DAYS OR UNTIL SUFFICIENT STRENGTH IS GAINED TO SAFELY SUPPORT LOADS IMPOSED.
15. WHERE STEEL BEARING PLATES ARE SHOWN ON THE DRAWINGS, THEY SHALL BE ANCHORED WITH A MINIMUM OF TWO 15M x 300mm LONG x 75mm HOOKED ANCHOR RODS WELDED TO THE PLATES AND EMBEDDED INTO GROUT FILL AS NOTED ABOVE.
16. SEE PLANS AND SCHEDULES REGARDING LINTEL SIZES FOR MASONRY WALLS AND VENEER. FOR ALL OPENINGS OR RECESSES IN MASONRY NOT SHOWN ON DRAWINGS GREATER THAN 300mm (12") AND UP TO 1200mm (4 FT.), INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT, PROVIDE ONE L8X8X90x4 (L3 1/2 x 3 1/2 x 1/4") ANGLE FOR EACH 100 mm (4") THICKNESS OF WALL.
17. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL ADEQUATE DIAPHRAGM ACTION CAN BE DEVELOPED BY INSTALLED FLOOR AND ROOF STRUCTURAL COMPONENTS.
18. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS. SPACING OF CONTROL JOINTS IN ALL WALLS SHALL BE CONSTRUCTED AS PER PLAN, BUT SHALL NOT EXCEED 6000 mm (20') O.C. ALL REINFORCING TO BE DISCONTINUOUS AT CONTROL JOINTS. CONTROL JOINTS SHALL BE CAULKED WITH FOAM BACKER ROD AND SHALL NOT BE FILLED WITH MORTAR.
19. REINFORCED MASONRY:
- a. CELLS TO BE REINFORCED SHALL BE KEPT CLEAN OF MORTAR.
- b. GROUT FOR REINFORCED CELLS, BOND BEAMS, LINTELS AND CELLS CONTAINING DOWELS, ANCHOR BOLTS AND INSERTS PER NOTE #3.
- c. PROVIDE MINIMUM 2-15M VERTICALS FULL HEIGHT AT ALL WALL ENDS, CORNERS, INTERSECTIONS AND OPENINGS UNLESS OTHERWISE NOTED ON DRAWINGS.
- d. PROVIDE 1-15M VERTICAL FULL HEIGHT EACH SIDE OF MOVEMENT JOINTS.
- e. DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCEMENT IN WALL.
- f. PROVIDE THE FOLLOWING LAPS FOR THE REINFORCEMENT INDICATED.
- 10M BARS = 450 mm (18")
- 15M BARS = 600 mm (24")
- 20M BARS = 900 mm (36")
- EMBEDDED ITEMS ARE NOT TO INTERFERE WITH THE INTEGRITY OF THE MASONRY WALL OR LOCATION OF REINFORCEMENT. PROVIDE FULLY GROUTED LINTEL BEAM FOR CONDUITS AND PIPES RUNNING HORIZONTALLY WITHIN WALL.
20. PROVIDE COLD WEATHER PROTECTION AS REQUIRED BY CAN/CSA-A371.
21. PROVIDE MOVEMENT JOINTS PER ARCHITECTURAL DRAWINGS. MAXIMUM DISTANCE BETWEEN MOVEMENT JOINTS TO BE 6000mm (20' Ø). COORDINATE LOCATION WITH ENGINEER.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND JOIST DESIGN CONNECTIONS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST CSA STANDARD S16.
- a. REFER ALSO TO NOTES UNDER PLANS.
2. STRUCTURAL STEEL SHALL CONFORM TO LATEST CAN/CSA-G40.20, AND CAN/CSA-G40.21
- a. GRADE 300W CLASS C FOR H.S.S.
- b. GRADE 300W FOR W SHAPES, S SHAPES, AND TEES.
- c. GRADE 300W FOR CHANNELS, ANGLES, PLATES, RODS
3. BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ANCHOR RODS SHALL BE FABRICATED FROM STEEL ROD CONFORMING TO CSA STANDARD G40.21 GRADE 300W.
4. SHEAR STUDS TO CONFORM LATEST ASTM A108.
5. WELDING MATERIALS TO CONFORM TO LATEST CSA W48.
6. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF LATEST CSA STANDARD W59.
7. FILLET WELDS SHALL BE 6mm (1/4") MIN. U.N.O. BOLTS SHALL BE A325 19mm (3/4") MIN. U.N.O. BOLTED CONNECTIONS SHALL HAVE MIN. OF TWO BOLTS IN EACH CONNECTED PIECE. BOLTED CONNECTIONS SHALL BE DESIGNED AS BEARING CONNECTIONS U.N.O.
8. STEEL COATINGS - STRUCTURAL STEEL SHALL BE CLEANED AND PREPARED TO CONFORM TO CSA LATEST STANDARD S16:
- a. INTERIOR STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED AS PER LATEST CSA/CAN S16.
- b. EXPOSED STEEL TO BE HOT DIPP GALVANIZED IN ACCORDANCE TO LATEST CAN/CSA-G154. TOUCH UP OF WELDS AND CUTS OF GALVANIZED MEMBERS TO BE DONE WITH A MINIMUM OF 3 COATS OF ZINC RICH PAINT.
- c. INTERIOR STEEL, MEMBERS THAT ARE TO BE PROTECTED BY A CEMENTITIOUS FIRE PROOFING SHALL BE CLEANED AND REMAIN UNCOATED.
9. FABRICATOR SHALL DESIGN CONNECTIONS IN ACCORDANCE WITH THE 2024 OBC FOR THE FORCES SHOWN ON THE DRAWINGS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 50% OF THE BEAM SHEAR CAPACITY IF FACTORED DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS.
10. MOMENT FRAMES CONNECTIONS TO BE CONTINUOUS COLUMN / INTERRUPTED BEAM TYPE U.N.O.
11. WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT VALUES ARE NOT INDICATED, DESIGN CONNECTIONS FOR 100% SECTION CAPACITY OF THE SMALLER MEMBER JOINED.
12. COLUMN CAP PLATES TO BE MIN. 16mm (5/8") THICK U.N.O. COLUMN BASE PLATES TO BE MIN. 20mm (3/4") THICK U.N.O. HSS COLUMNS TO HAVE MIN. 10mm (3/8") THICK CAP PLATE WELDED ALL-AROUND U.N.O.
13. ALL BEAMS CANTILEVERED OR CONTINUOUS OR SUPPORTED OVER A COLUMN OR OTHER SUPPORT, AND BEAMS SUPPORTING POINTS OF CONCENTRATED LOAD, SHALL HAVE A MIN. OF 2-10 mm (3/8") STIFFENERS EACH SIDE OF WEB U.N.O.
14. TOP OF COLUMNS WHICH ARE NOT BRACED BY JOISTS OR BEAMS SHALL BE BRACED DIAGONALLY TO THE ROOF OR FLOOR BY A MINIMUM OF 4-76 x 76 x 6.4 mm (L3 x 3 x 1/4") ANGLES FOR INTERIOR COLUMNS. A MINIMUM 2-476 x 76 x 6.4mm (L3 x 3 x 1/4") ANGLES FOR EXTERIOR COLUMNS. BRACING SHALL BE BETWEEN TOP OF COLUMN AND TOP CHORD OF JOISTS.
15. COLUMNS BUILT INTO MASONRY, ABUTTED BY, OR FACED WITH MASONRY WALLS SHALL HAVE ADJUSTABLE ANCHORS AT 400 mm (16") O.C. SPACED VERTICALLY, WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY, ANCHORS SHALL ALLOW VERTICAL MOVEMENT BETWEEN STEEL MEMBERS AND MASONRY.
16. BEARING PLATES ARE TO BE CENTRED BELOW ALL BEAMS OR LINTELS U.N.O ON THE DRAWINGS. WELD TO BEARING PLATE WITH A MINIMUM 50 mm x 5 mm (2" x 3/16") FILLET ON BOTH SIDES OF BEAM.
17. STEEL BEAMS AND LINTELS SHALL HAVE 200 mm (8") MINIMUM END BEARING ON MASONRY AND 65 mm (2 1/2") MINIMUM BEARING ON STEEL UNLESS INDICATED OTHERWISE.
18. WHERE BACK-TO-BACK ANGLES ARE USED AS LINTELS OR SUPPORTS, STITCH WELD TOGETHER AT A MAXIMUM SPACING OF 300mm (12") O.C.
19. ALL ROOF OPENINGS TO BE REINFORCED BY FRAMES PER TYP. DETAIL UNLESS NOTED OTHERWISE. MAXIMUM SPAN 2000 mm (6'-6"). FOR LARGER OPENING CONSULT STRUCTURAL ENGINEER. COORDINATE WITH MECHANICAL, ELECTRICAL AND SUB-TRADES TO AVOID INTERFERENCE WITH STRUCTURAL MEMBERS.
20. PROVIDE TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB UNTIL PERMANENT BRACING SHOWN ON DRAWINGS INCLUDING FLOORS AND ROOFS IS CONSTRUCTED.

METAL DECK

1. DESIGN METAL DECK IN CONFORMANCE WITH THE REQUIREMENTS OF LATEST CSA S136 FOR THE LOADS INDICATED ON THE DRAWINGS
2. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE 38 mm x 0.91 mm (1.5" x .036") VIC WEST STEEL INC. RD 938 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS
3. UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE 38 mm x 0.76 mm (1.5" x .030") VIC WEST STEEL INC. HB938 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS.
4. METAL DECK SHALL BE LIGHT ZINC COATED STRUCTURAL STEEL SHEET FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST CSSBI 10M, CAN/CSA-S136. THE MINIMUM ZINC COATING DESIGNATION SHALL BE ZP075 (U.N.O.).
5. DECK SHALL OVERLAP A MINIMUM OF 50 mm (2") AT ALL END JOINTS AND HAVE A MINIMUM BEARING LENGTH OF 50 mm (2") ON ALL STRUCTURAL STEEL.
6. DECK HAS BEEN DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED AS FOLLOWS U.N.O.:
- WELD DECK TO SUPPORTING STEEL WITH 20 mm (3/4") DIAMETER PLUG WELD AT TRANSVERSE WELD SPACING =300 mm (12") O.C.
- PERIMETER WELD SPACING =300 mm (12") O.C.
- SIDE LAP BUTT ON PUNCHING =300 mm (12") O.C.
- LONGITUDINAL WELD SPACING =300 mm (12") O.C
7. DECK WELDS SHALL BE TOUCHED UP WITH APPROVED PAINT BY THE DECK ERECTOR.
8. STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL ANGLES, COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.
9. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, ETC.
- A. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150 mm (6").
- B. REINFORCE ALL OPENINGS LARGER THAN 150mm (6"), BUT NOT EXCEEDING 450 mm (18"), AS INDICATED BY THE METAL DECK SUPPLIER.
- C. FOR OPENINGS GREATER THAN 450mm (18") NOT SHOWN ON THE DRAWINGS, CONTACT ENGINEER FOR DIRECTION.
10. HANGER WIRE FOR SUSPENDED CEILINGS SHOULD PIERCE BOTH SIDES OF THE FLUTE AND BE LOOPED AROUND AND TIED.

4" BRICK VENEER LOOSE LINTEL SCHED.			
MAX. CLEAR SPAN	SIZE	REMARKS	
UP TO 1200 (4'-0")	L89x89x7/8	(3 1/2" x 3 1/2" x 5/16")	
1201 TO 1800 (4'-0" TO 6'-0")	L127x89x8 (LLV)	(5" x 3 1/2" x 5/16" (LLV))	
1801 TO 2400 (6'-0" TO 8'-0")	L152x89x8 (LLV)	(6" x 3 1/2" x 5/16" (LLV))	
2401 TO 3000 (8'-0" TO 10'-0")	L152x89x8.5 (LLV)	(6" x 3 1/2" x 3/8" (LLV))	
NOTES			
1. LINTEL BEARING LENGTH TO BE MIN. 150mm (6")			
2. ALL STRUCTURAL STEEL MEMBERS TO BE HOT DIPPED GALVANIZED.			
3. SEE ARCHITECTURAL DRAWINGS FOR SPANS.			

LUMBER

1. ALL WOOD SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA STANDARD CAN/CSA 086-09 ENGINEERING DESIGN IN WOOD.
2. ALL PRE-ENGINEERED TRUSSES TO BE IN ACCORDANCE WITH CAN/CSA 086-09 ENGINEERING DESIGN IN WOOD. DESIGN SHALL CONSIDER DEAD LOADS AND LIVE LOADS INCLUDING WIND-UP LIFT, SNOW PILE-UP AND EQUIPMENT LOADS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL SUBMIT FOR REVIEW FABRICATION DRAWINGS AND CALCULATIONS SHOWING DESIGN LOADS, MEMBER SIZES AND CONNECTION DETAILS STAMPED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
3. PREFABRICATED WOOD JOISTS SHALL BE TRUSS JOISTS - T-JI SERIES AS MANUFACTURED BY WEYERHAEUSER, OR APPROVE EQUIVALENT.
- 3.1 ALL CUTTING OF FLANGES OR HOLES IN WEBS ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS U.N.O.
4. JOISTS HANGERS SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL AND SHALL CONFORM TO THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS' ACCEPTANCE CRITERIA FOR JOIST HANGERS AND SIMILAR DEVICES".
5. SAWN LUMBER PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF CSA O141. ALL SAWN LUMBER IS TO BE SPF GRADE No. 11m-2 OR BETTER, UNLESS NOTED OTHERWISE.
6. STRUCTURAL COMPOSITE LUMBER SHALL BE THE FOLLOWING (OR APPROVED EQUIVALENT) UNLESS NOTED OTHERWISE.
- 6.1 PARALLEL STRAND LUMBER (PSL): PARALAM GRADE 2.0E AS MANUFACTURED BY WEYERHAEUSER
- 6.2 LAMINATED VENEER LUMBER (LVL): SHALL BE 2900F-B - 2.0E
7. NAILS AND SPIKES SHALL CONFORM TO THE CSA STANDARD B111 "WIRE NAILS, SPIKES AND STAPLES".
8. NAILING REQUIREMENTS:
- BUILT-UP HEADERS - MIN. LENGTH OF NAILS - 76mm AT 300mm. SPACING OF ROWS - 64MM
- FLOOR CEILING JOIST TO PLATE - MIN. LENGTH OF NAILS - 82MM, MIN. 2 NAILS. FOLLOW NAILING REQUIREMENTS TABLE.
9. ALL BOLTS AND THREADED RODS CONNECTING WOOD MEMBERS SHALL CONFORM TO ASTM A307.
10. FOR ALL WOOD CONSTRUCTION NOT DETAILED, FOLLOW SECTION 9.23 "WOOD - FRAME CONSTRUCTION" OF THE 2012 OBC.
11. ROWS OF BRIDGING OR BLOCKING MUST NOT BE MORE THAN 6'-10" FROM EACH SUPPORT AND INTERMEDIATE LOCATIONS SO THAT THE DISTANCE BETWEEN ROWS DOES NOT EXCEED 6'-10".
12. PROVIDE DOUBLE FLOOR JOIST UNDER PARALLEL PARTITION WALLS.
13. ALL STUD WALLS SHALL BE ANCHORED TO THE FOUNDATION OR FLOOR SLAB WITH 16 mm (5/8") DIAMETER ANCHOR BOLTS AT 1200 mm (4 FT.) O.C. MAXIMUM U.N.O.
14. DESIGN OF WOOD TRUSS SYSTEM:
- A. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE DETAILS AND DESIGN LOADS SHOWN ON THE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS, AND SHALL CONFORM TO THE REQUIREMENTS OF CSA 086.1 AND THE WOOD DESIGN MANUAL, PUBLISHED BY THE CANADIAN WOOD COUNCIL.
- B. TRUSS PLATES SHALL CONFORM TO THE CSA STANDARD S347 "METHOD OF TEST FOR EVALUATION OF TRUSS PLATES USED IN LUMBER JOINTS".
- C. DETAIL TRUSSES TO BEAR FLAT ON THE BOTTOM CHORD AT ALL BEARING WALLS. DEFLECTION CRITERIA: VARIABLE LOADS = L/240, TOTAL LOAD = L/180
- E. DESIGN OF PERMANENT LATERAL BRACING OF WEB MEMBERS.
- F. TRUSSES SHALL BE DESIGNED TO SUPPORT THEIR SELF WEIGHT PLUS THE SUPERPOSED TOP AND BOTTOM CHORD LOADS AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY TYP (WHICHEVER IS GREATER)
- G. TRUSS CONNECTIONS TO SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE RUSS DESIGN ENGINEER.
- 14.1. SHOP DRAWINGS OF THE ROOF TRUSSES INCLUDING LAYOUT OF THE TRUSSES, BRIDGING, BRACING, AND BEARING DETAILS (INCLUDING HOLD-DOWN CLIPS) SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION. TRUSS SHOP DRAWINGS ARE TO INDICATE THE LOCATION OF ALL GIRDER TRUSSES AND GIRDER TRUSS SUPPORT LOCATIONS AND REACTIONS. ADDITIONAL COLUMNS TO SUPPORT GIRDER TRUSSES MAY BE REQUIRED.
- 14.2. WOOD TRUSSES SHALL BE TEMPORARILY BRACED DURING ERECTION TO KEEP THEM PLUMB, IN ALIGNMENT AND SECURE UNTIL PERMANENT BRACING, DECKING AND/OR SHEATHING CAN BE INSTALLED. TEMPORARY BRACING SHALL BE MINIMUM 38x89 mm (2"x4") LUMBER.
- 14.3. PERMANENT DIAGONAL BRACING SHALL BE PROVIDED ON ALL WEB MEMBERS THAT REQUIRE LATERAL BRACING AS INDICATED ON THE TRUSS SHOP DRAWINGS. PERMANENT DIAGONAL BRACING TO BE SPECIFIED BY THE BUILDING ENGINEER, AND INSTALLED AS PER THE STRUCTURAL DRAWINGS. SPACING OF DIAGONAL BRACING SHALL NOT EXCEED 6 M (20') AS RECOMMENDED BY TYP.
- 14.4. SITE REVIEW OF ROOF TRUSS SYSTEM: THE TRUSS SYSTEM SHALL BE INSPECTED BY THE TRUSS DESIGN ENGINEER RETAINED BY THE TRUSS SUPPLIER, SUBMIT INSPECTION REPORTS TO THE ARCHITECT AND THE ENGINEER AS REQUIRED FOR RECORD PURPOSES.

CONSTRUCTION DETAIL	MIN. LENGTH OF NAILS mm (*)	MIN. NUMBER OR SPACING OF NAILS
FLOOR / CEILING JOIST TO PLATE	82 (3 1/4)	2
BUILT-UP HEADERS / LINTELS		
- ALONG LENGTH	76 (3)	300mm (12") O.C.
- SPACING OF ROWS		64mm (2 1/2") O.C.
STUD TO WALL PLATE		
- END NAIL	82 (3 1/4")	2
- TOE NAIL	64 (2 1/2")	4
DOUBLE STUDS AT OPENINGS, OR STUD WALLS	76 (3)	750mm (30" O.C.)
BOTTOM WALL PLATE TO JOISTS OR BLOCKING	82 (3 1/4)	400mm (16") O.C.
LINTELS TO STUDS - EA. END	82 (3 1/4)	50mm (2") O.C. VERT. EACH PLY
ROOF RAFTER / TRUSS TO PLATE	82 (3 1/4)	3
ROOF RAFTER TO RIDGE BOARD - TOE OR END NAIL	82 (3 1/4)	3
COLLAR TIE TO RAFTER (U.N.O.)	76 (3)	3
WALL SHEATHING TO STUDS		
- ALONG EDGES	51 (2)	150mm (6") O.C.
- INTERMEDIATE SUPPORTS	51 (2)	300mm (12") O.C.

DESIGN DATA TABLE			
BUILDING IMPORTANCE		NORMAL	
-			
SPECIFIED SNOW LOADS			
RAIN LOADING DESIGN DATA (1/50)		24h RAIN	97mm
SNOW LOADING DESIGN DATA (1/50)		Ss	1.1 kPa
		Sr	0.4 kPa
BASIC ROOF SNOW LOAD		S	1.28 kPa
ADDITIONAL SNOW ACCUMULATION IS SHOWN ON THE DRAWINGS.			
SPECIFIED WIND LOADS			
HOURLY WIND PRESSURE DESIGN DATA (1/50)		0.47 kPa	
WIND DESIGN CATEGORY		CATEGORY 2	
TERRAIN TYPE		'OPEN'	
SPECIFIED EARTHQUAKE LOADS			
SEISMIC LOADING DESIGN DATA	Sa (0.2, X ₀)	0.385	
	Sa (0.5, X ₀)	0.319	
	Sa (1.0, X ₀)	0.18	
	Sa (2.0, X ₀)	0.0833	
	Sa (5.0, X ₀)	0.0215	
	Sa (10.0, X ₀)	0.00664	
	PGV (X ₀)	0.207	
	PGA (X ₀)	0.242	
SITE CLASS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER		SITE CLASS	'D'
SEISMIC FORCE MODIFICATION FACTORS FOR SEISMIC FORCE RESISTING SYSTEM	Rd	1.5	
	Ro	1.3	
	SC3		
SEISMIC CATEGORY			

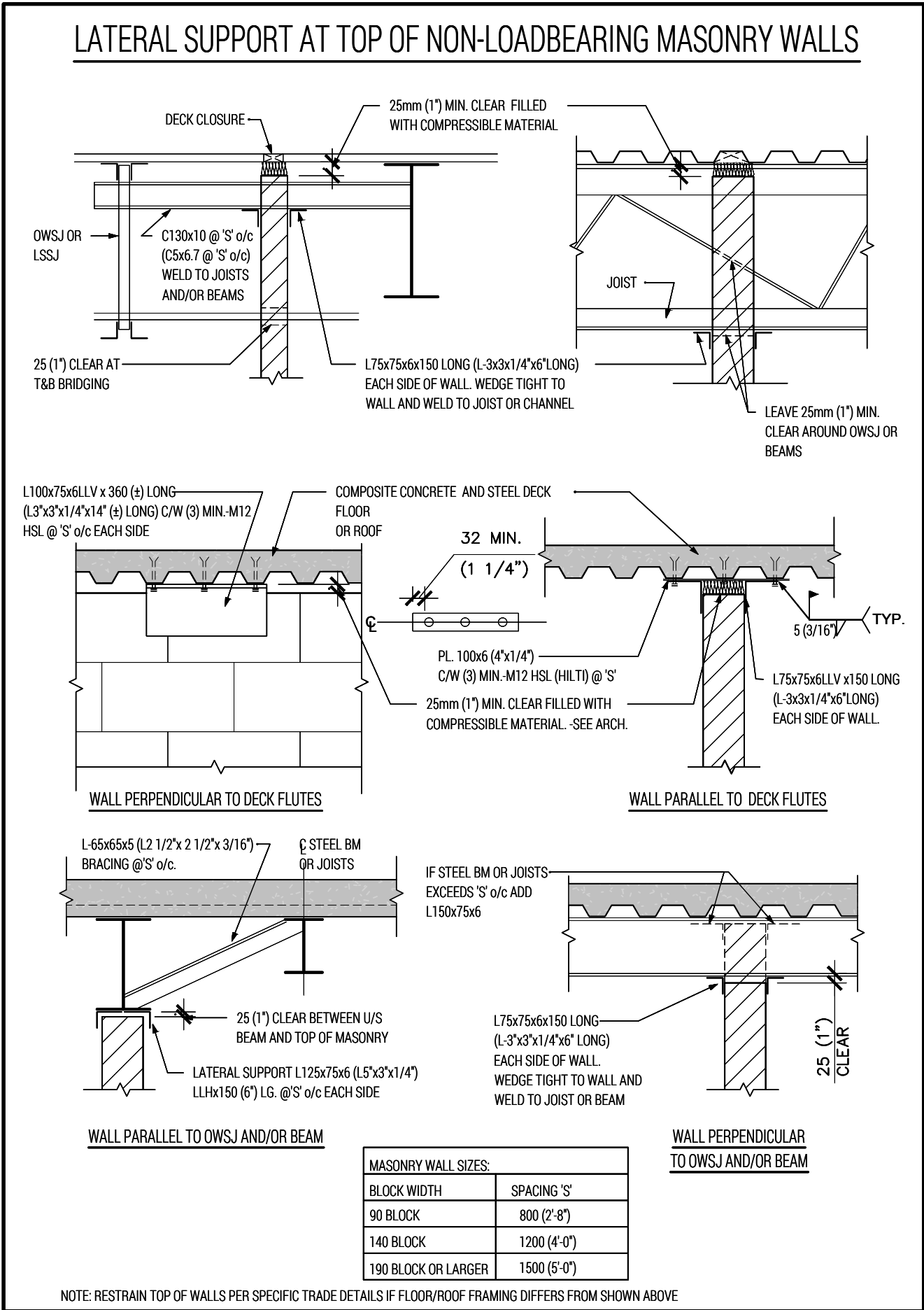
ABBREVIATIONS			
A.B.	ANCHOR BOLT	HD.	HOOKED
ALT.	ALTERNATE	ID.	INSIDE DIAMETER
ALU.	ALUMINUM	IN.	INCH
ANCH'S	ANCHORS	KPa	KILOPASCAL
APPROX.	APPROXIMATELY	L	LONG
ARCH.	ARCHITECTURAL	L.L.H.	LONG LEG HORIZONTAL
B/F	BOTTOM FACE	L.L.V.	LONG LEG VERTICAL
B.P.L.	BASE PLATE	L.P.	LOW POINT
BLK.	BLOCK	L.G.	LONG
BM.	BEAM	MAX.	MAXIMUM
BOT.	BOTTOM	MECH.	MECHANICAL
BRG.	BEARING	MET'L	METAL
BT.PL.	BENT PLATE	MIN.	MINIMUM
C/W	COMPLETE WITH	MISC.	MISCELLANEOUS
C/C	CENTRE TO CENTRE	m	METRE
C.J.	CONTROL JOINT	mm	MILLIMETRE
C.L.	CONCRETE LINTEL	MPa	MEGAPASCAL
CLG.	CEILING	N.I.C.	NOT IN CONTRACT
COL.	COLUMN	N.T.S.	NOT TO SCALE
CONC.	CONCRETE	No.	NUMBER
CONN.	CONNECTION	O.C.	ON CENTRE
CONSTRN	CONSTRUCTION	O.D.	OUTSIDE DIAMETER
CONT.	CONTINUOUS	O.H.	OVERHEAD
DEM.	DEMOLITION	OWSJ	OPEN WEB STEEL JOIST
DET.	DETAIL	PARTN	PARTITION
DIA.	DIAMETER	PL	PLATE
DIM.	DIMENSION	R.C.	REINFORCED CONCRETE
DO.	DITTO	R.D.	ROOF DRAIN
D.O.	DEEP	R.O.	ROUGH OPENING
OP.	DRAWING	REF.	REFERENCE
DWL.	DOWEL	REINF.	REINFORCED
E.	EACH FACE	REQ'D	REQUIRED
E.J.	EXPANSION JOINT	S.C.	SAWCUT
ELEC.	ELECTRICAL	S.D.F.	STEP DOWN FOOTING
EMBED.	EMBEDMENT	SECT.	SECTION
E.S.	EACH SIDE	S.L.H.	SHORT LEG HORIZONTAL
E.W.	EACH WAY	S.L.V.	SHORT LEG VERTICAL
E.A.	EACH	S.O.G.	SLAB ON GRADE
EL.	ELEVATION	STL.	STEEL
EQ.	EQUAL	STIFF.	STIFFENER
EXTG.	EXISTING	STRUCT.	STRUCTURAL
F.F.	FACE TO FACE	TO	TOP OF
FIN.	FINISHED	T.L.TP	LOWER LAYER
FLR.	FLOOR	T.U.L.	TOP UPPER LAYER
FNDN.	FOUNDATION	TYP	TYPICAL
FTG.	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
Ga.	GAUGE	U/S	UNDERSIDE
GALV.	GALVANIZED	VERT.	VERTICAL
GRD.	GRADE	V.E.F.	VERTICAL EACH FACE
H.D.	HEAVY DUTY	V.I.F.	VERTICAL INSIDE FACE
H.D.G.	HOT DIPPED GALVANIZED	V.O.F.	VERTICAL OUTSIDE FACE
H.E.F.	HORIZONTAL EACH FACE	W.P.	WORKING POINT
H.O.F.	HORIZONTAL OUTSIDE FACE	W.W.M.	WELEDED WIRE MESH
HORIZ.	HORIZONTAL	@	SPACED AT
H.P.	HIGH POINT		
HSS	HOLLOW STRUCTURAL STEEL		

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THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT D.FE ENGINEERING INC. CANNOT GIVE ANY COMPONENT OF THE

NON-LOAD BEARING BLOCK LINTEL SCHED.											
WIDTH	<1220 (4'-0")		<1830 (6'-0")		<2440 (8'-0")		<3080 (10'-0")		<3650 (12'-0")		SECTION DETAIL
100 (4')	VER 1	VER 2	VER 1	VER 2	VER 1	VER 2					
	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.					
150 (6')	VER 1	VER 2	VER 1	VER 2	VER 1	VER 2					
	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.					
200 (8')	VER 1	VER 2	VER 1	VER 2	VER 1	VER 2					
	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.					
250 (10')	VER 1	VER 2	VER 1	VER 2	VER 1	VER 2					
	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.	(1) L 12x8x6 (2) L 5x3.17x16 L.L.V.					
300 (12')	VER 1	VER 2	VER 1	VER 2	VER 1	VER 2					
	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.	(1) L 8x8x6 (2) L 3.17x3.17x14 (3) L 4x4x6.5 (4) L 1.5x3.5x16 L.L.V.					
NOTES:											
1. STRUCTURAL STEEL SHALL BE G40.21.											
2. BEARING LENGTH = 6" AT EACH END.											
3. CONNECT ANGLES @ 24" o/c BY WELDING or BOLTING FOR ANGLES WITH A TOTAL LENGTH OF 6'-0" OR MORE.											



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THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT D.F. ENGINEERING INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY D.F. ENGINEERING INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR TENDER	2	2025-05-27
ISSUED FOR BUILDING PERMIT	1	2025-05-22

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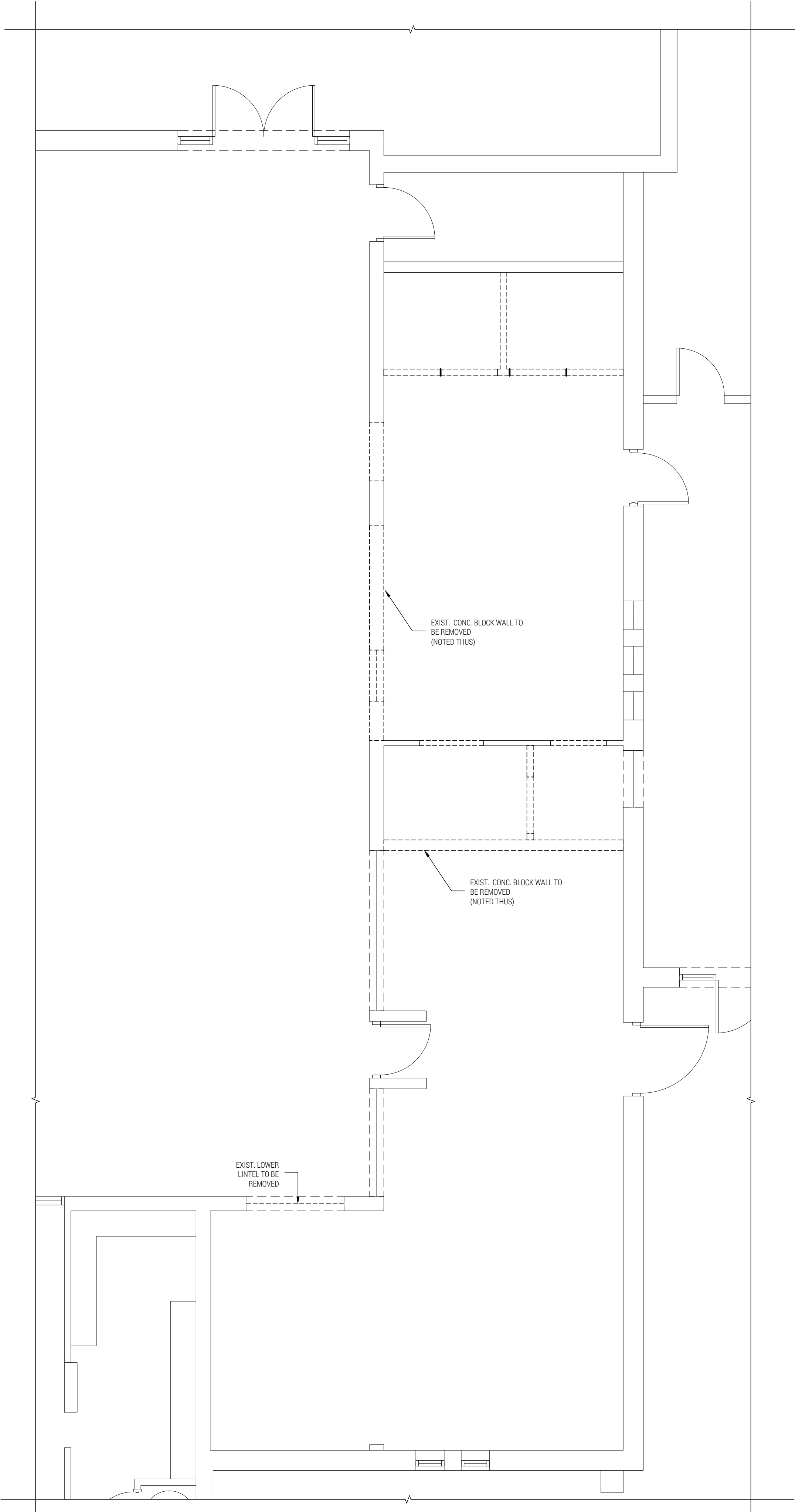
DOYTCH & FILO ENGINEERING INC.
Structural Engineers

LICENSED PROFESSIONAL ENGINEER

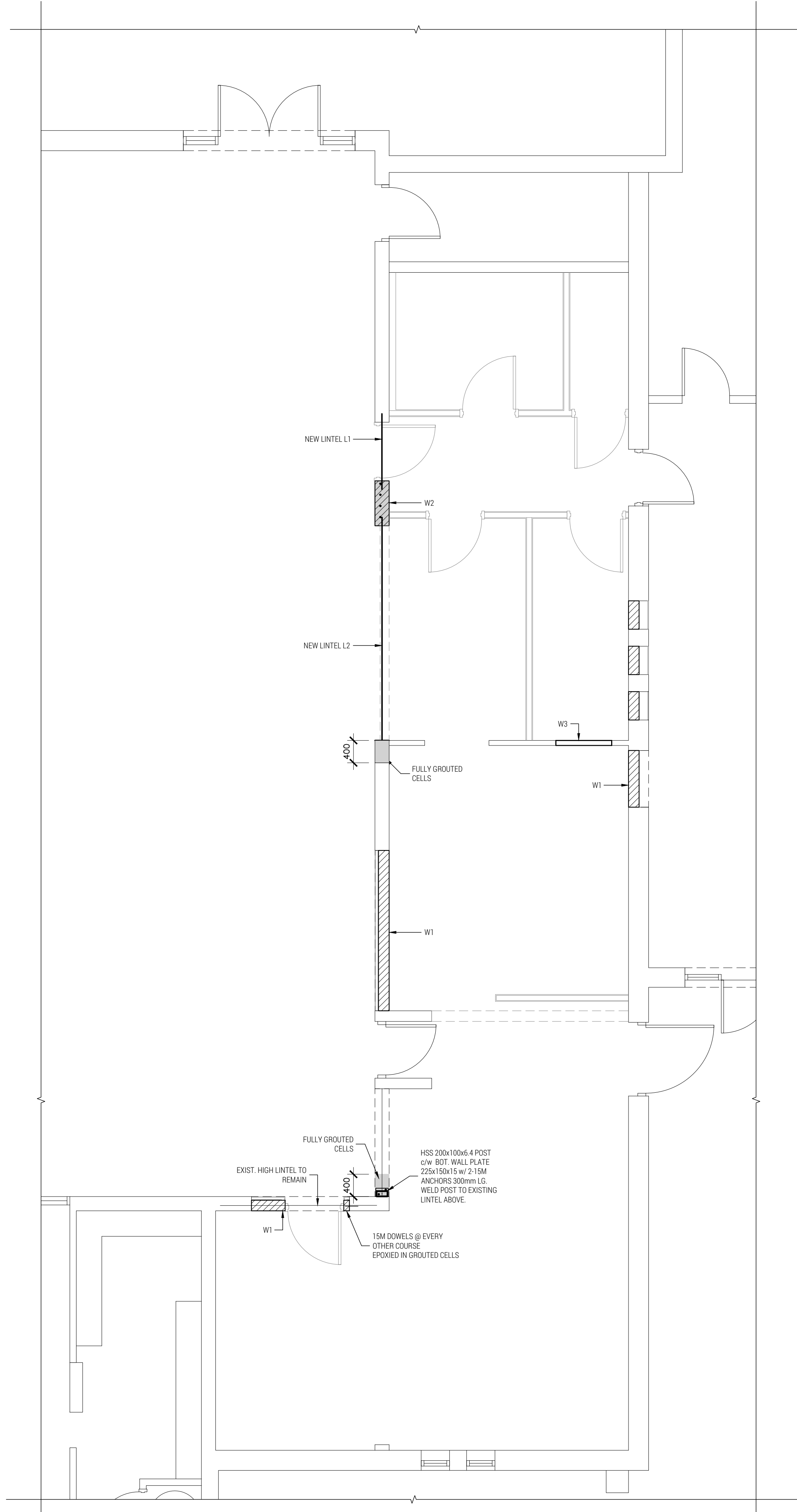
T. N. DOYTCHEV
100113262
2025-05-27
PROVINCE OF ONTARIO

Phones: (647) 838-4805 ; (905) 719-1482

PROJECT HOLY TRINITY CROATIAN PARISH HALL RENOVATION			
2110 TRAFALGAR RD., OAKVILLE, ON, L6H 7H2			
DRAWING			
GENERAL NOTES AND SCHEDULES			
Design By:	TD/AF	Date:	2025-05-13
		Project No.:	25042501
Drawn By:	AF	Drawing No.:	
Scale:	AS NOTED		S0.1



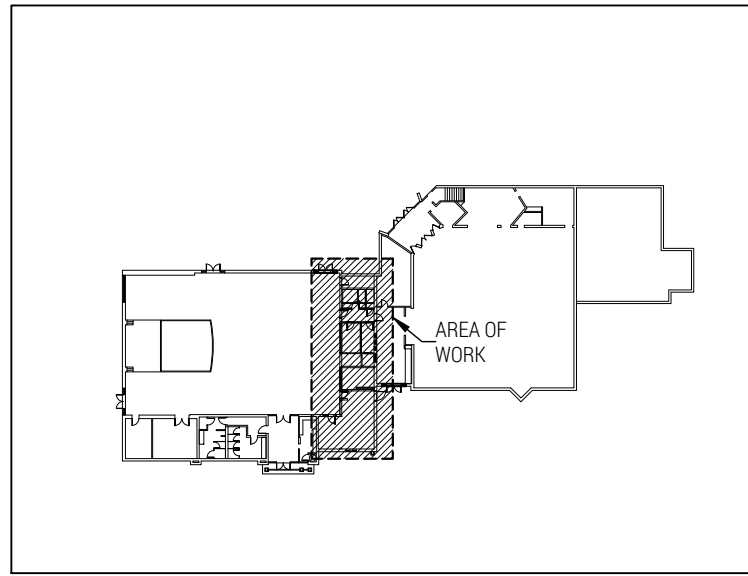
PLAN
DEMOLITION PARTIAL GROUND FLOOR PLAN 1:50



PLAN
PARTIAL GROUND FLOOR PLAN FOUNDATION PLAN 1:50

NEW LINTEL L1:
W200x27 * 8mm PLATE AT BOT. FLANGE, WIDTH TO SUIT.
MIN. 150mm BEARING LENGTH AT EACH END.

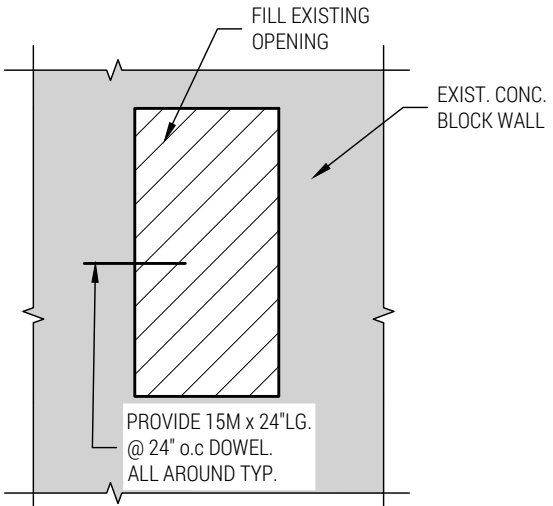
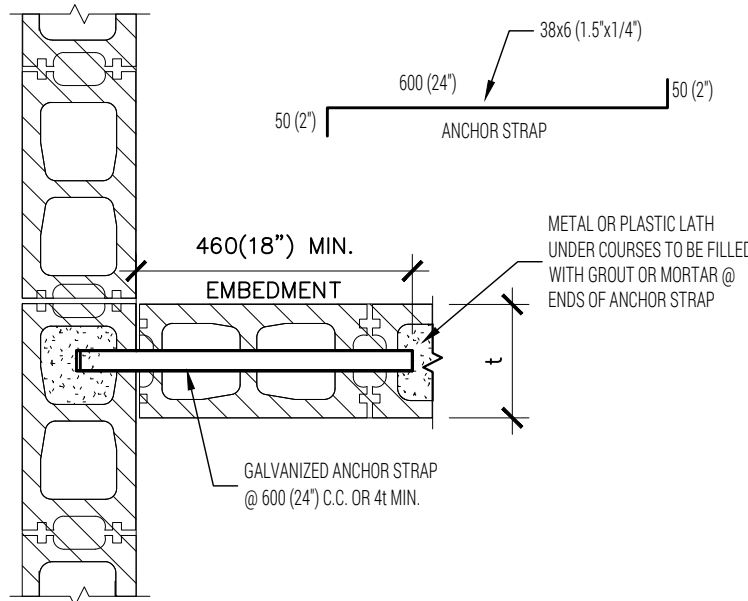
NEW LINTEL L2:
W200x46 * 10mm PLATE AT BOT. FLANGE, WIDTH TO SUIT.
MIN. 150mm BEARING LENGTH AT EACH END.



GROUND FLOOR KEY PLAN
1:1000

CONCRETE BLOCK WALL SCHEDULE	
MARK	DESCRIPTION
W1	- 190 CONC. BLOCK
	- BLOCK COMP. STRENGTH = 15 MPa
	- 15M @ 400 VERT.
	- HEAVY DUTY BLOCK-LOK TRUSS / LADDER AT EVERY SECOND COURSE
W2	- 240 CONC. BLOCK FULLY GROUTED
	- BLOCK COMP. STRENGTH = 15 MPa
	- 15M @ 200 VERT.
	- HEAVY DUTY BLOCK-LOK TRUSS / LADDER AT EVERY SECOND COURSE
W3 (NON-LOAD BEARING)	- 190 AND 90 CONC. BLOCK
	- BLOCK COMP. STRENGTH = 15 MPa
	- 10M @ 1000 VERT.
	- HEAVY DUTY BLOCK-LOK TRUSS / LADDER AT EVERY SECOND COURSE

- NOTES:
- FULLY GROUT ALL REINFORCED CORES.
 - ALL WALLS NOTED FULLY GROUTED ARE TO BE 100% FILLED WITH GROUT.
 - COORDINATE ALL WALL OPENINGS WITH ARCH DWGS. AND MECHANICAL CONTRACTOR.
 - PROVIDE ADDITIONAL BARY MATCHING WALL REINF. SIZE, FULL HEIGHT @ ALL WALL ENDS, INTERSECTIONS AND OPENINGS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - PROVIDE STANDARD TENSION SPLICES FOR ALL HORIZONTAL AND VERTICAL WALL REINFORCEMENT.
 - ALL BARS CONNECTING BETWEEN FLOORS TO BE TIED TOGETHER (REFER TO SECTION DETAILS).
 - SOLID FILLED VOIDS TO BE MADE WITH 20MPa FLOWABLE GROUT (MORTAR FILL NOT PERMITTED)
 - PROVIDE DOWELS FROM THE FOOTING TO WALLS ABOVE TO MATCH VERTICAL WALL REINFORCEMENT.
 - THE INTERSECTION (CORNER JOINTS) OF ALL MASONRY WALLS SHALL BE TOOTHED.
 - THE INTERSECTION ("T" JOINTS) OF ALL MASONRY WALLS SHALL BE TOOTHED OR CONTINUOUSLY REINFORCED WITH JOINT REINFORCEMENT.



TYPICAL DETAIL
ELEVATION VIEW
INFILL CONCRETE BLOCK

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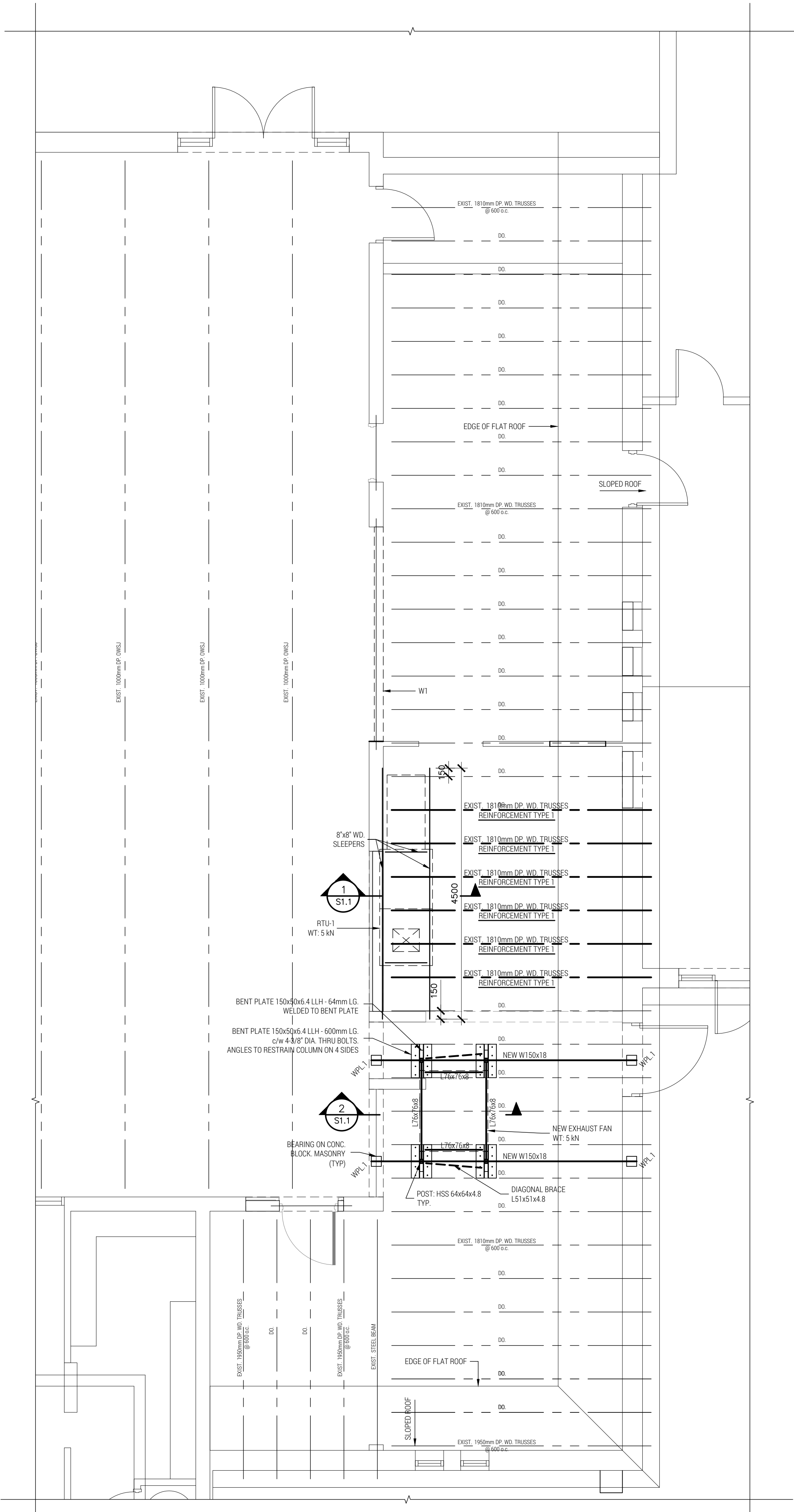
ISSUED FOR TENDER	2	2025-05-27
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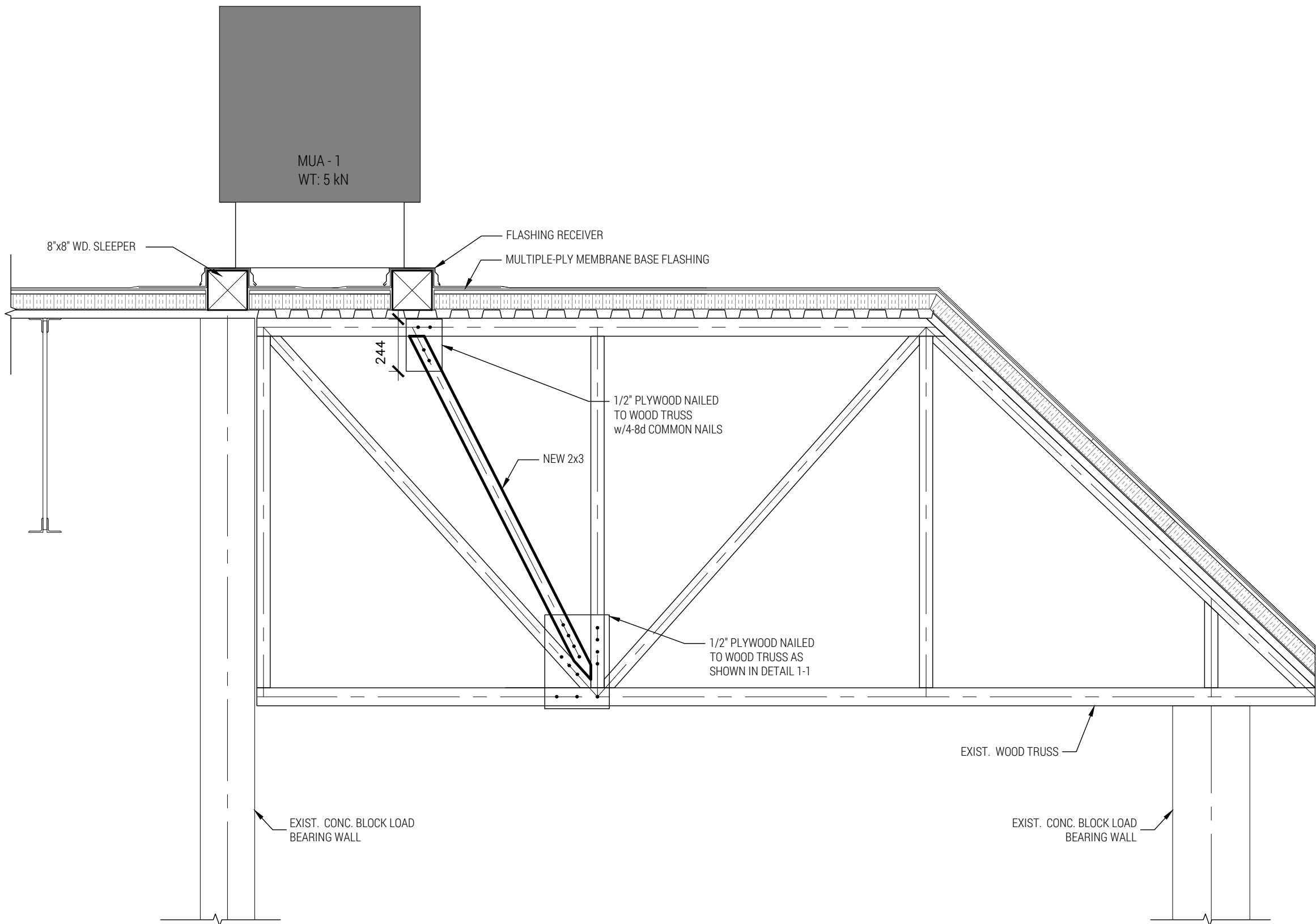
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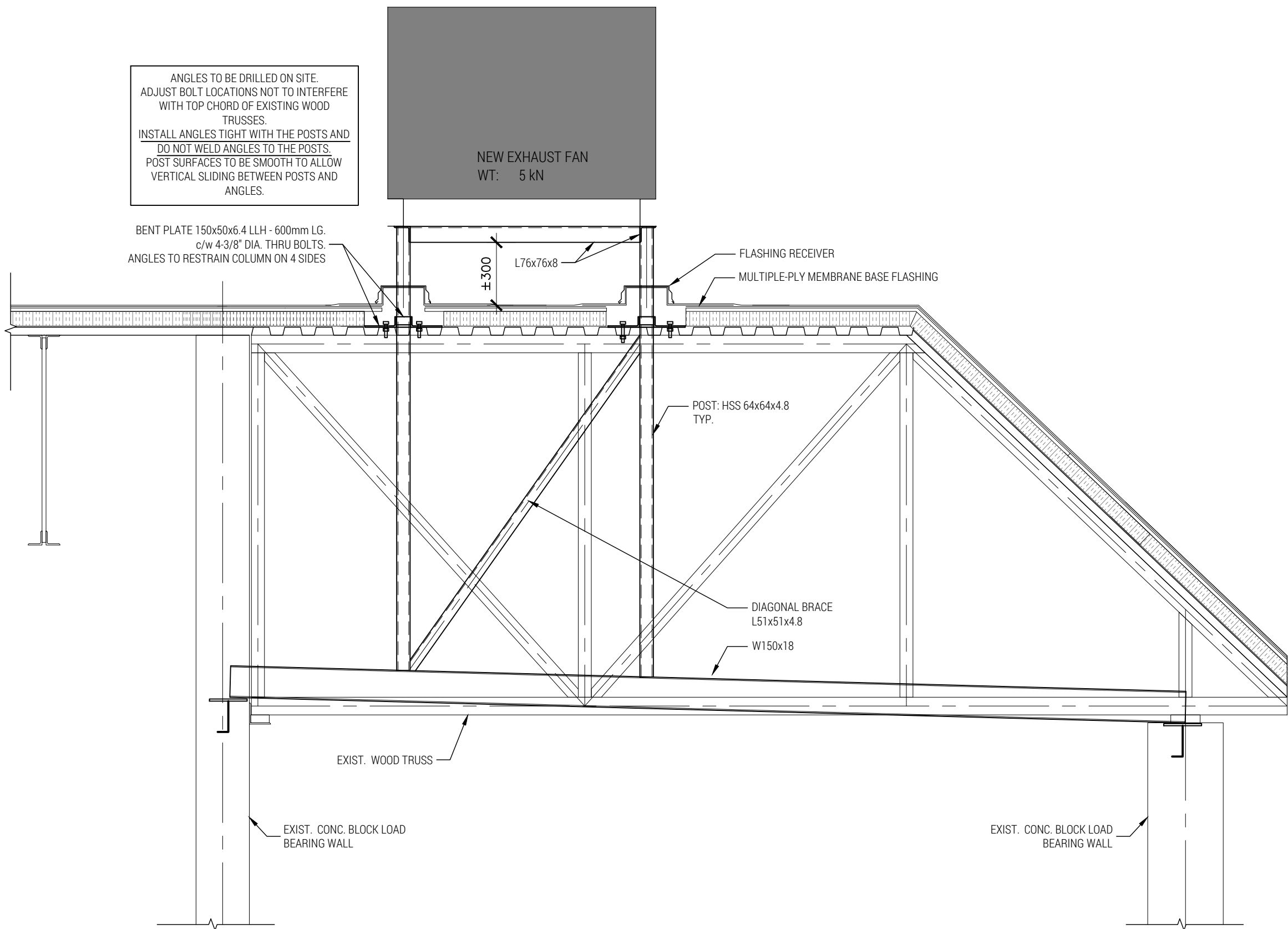
PROJECT HOLY TRINITY CROATIAN PARISH HALL RENOVATION	
2110 TRAFALGAR RD., OAKVILLE, ON, L6H 7H2	
DRAWING GROUND FLOOR PLANS, SECTION AND DETAILS	
Design By: TD/AF	Date: 2025-05-13
Drawn By: AF	Project No.: 25042501
Scale: AS NOTED	Drawing No.: S1.0



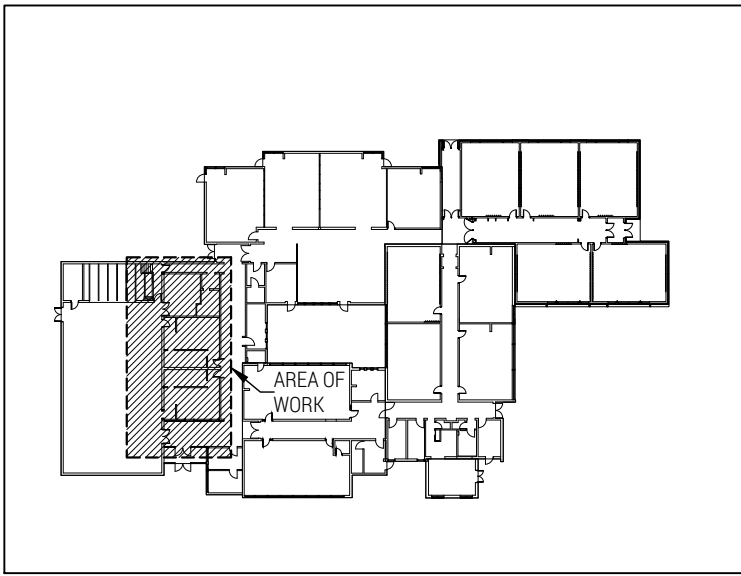
PLAN
PARTIAL ROOF FRAMING PLAN 1:50



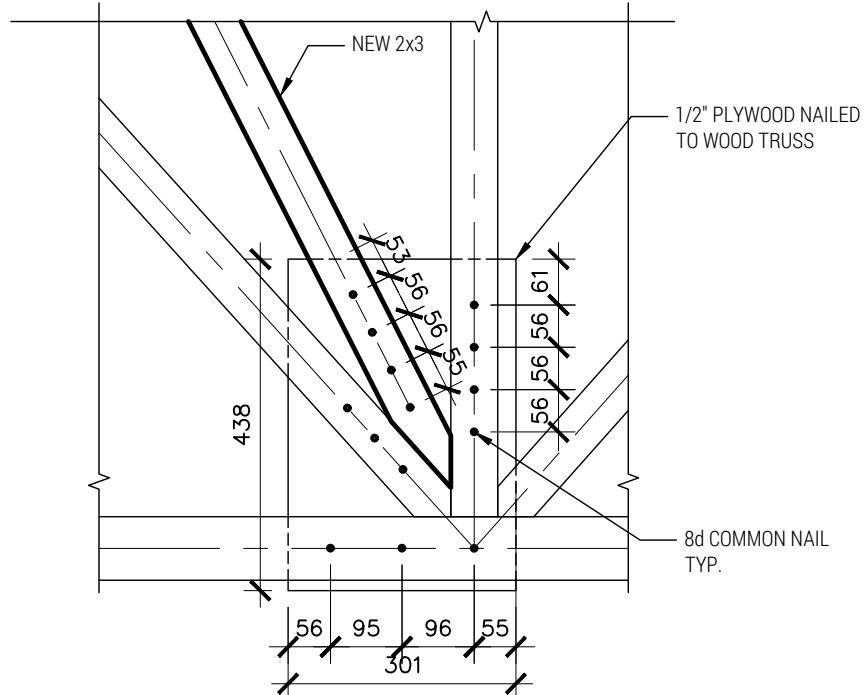
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S1.1
ELEVATION
EX WOOD TRUSS
REINFORCING TYPE 1 1:20



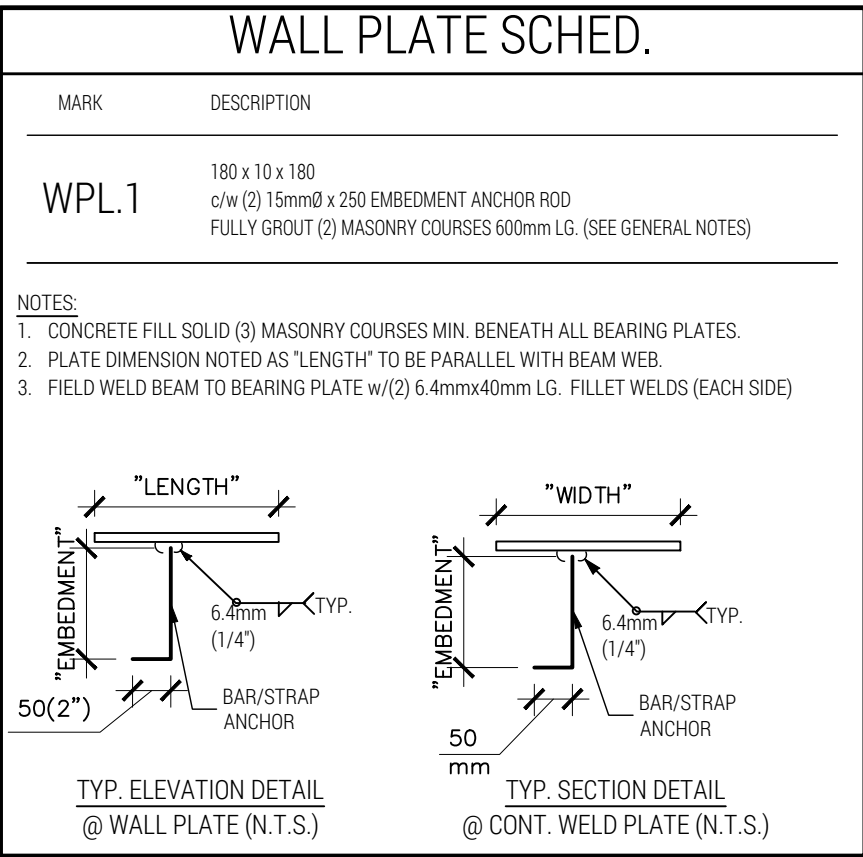
1
S1.1
ELEVATION
EX WOOD TRUSS
REINFORCING TYPE 1 1:20



GROUND FLOOR KEY PLAN
1:1000



DETAIL 1-1
1:10



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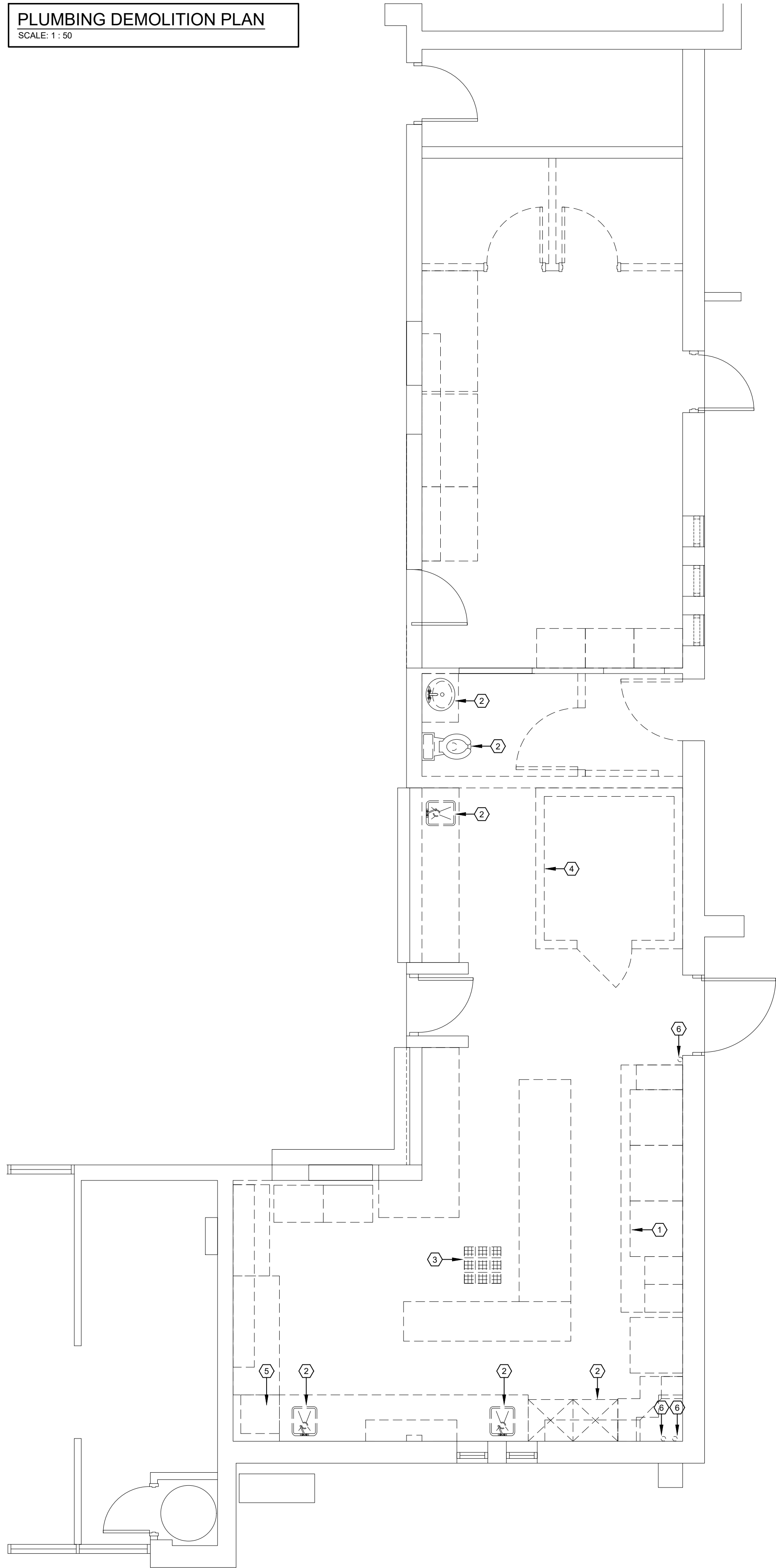
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Structural Engineers

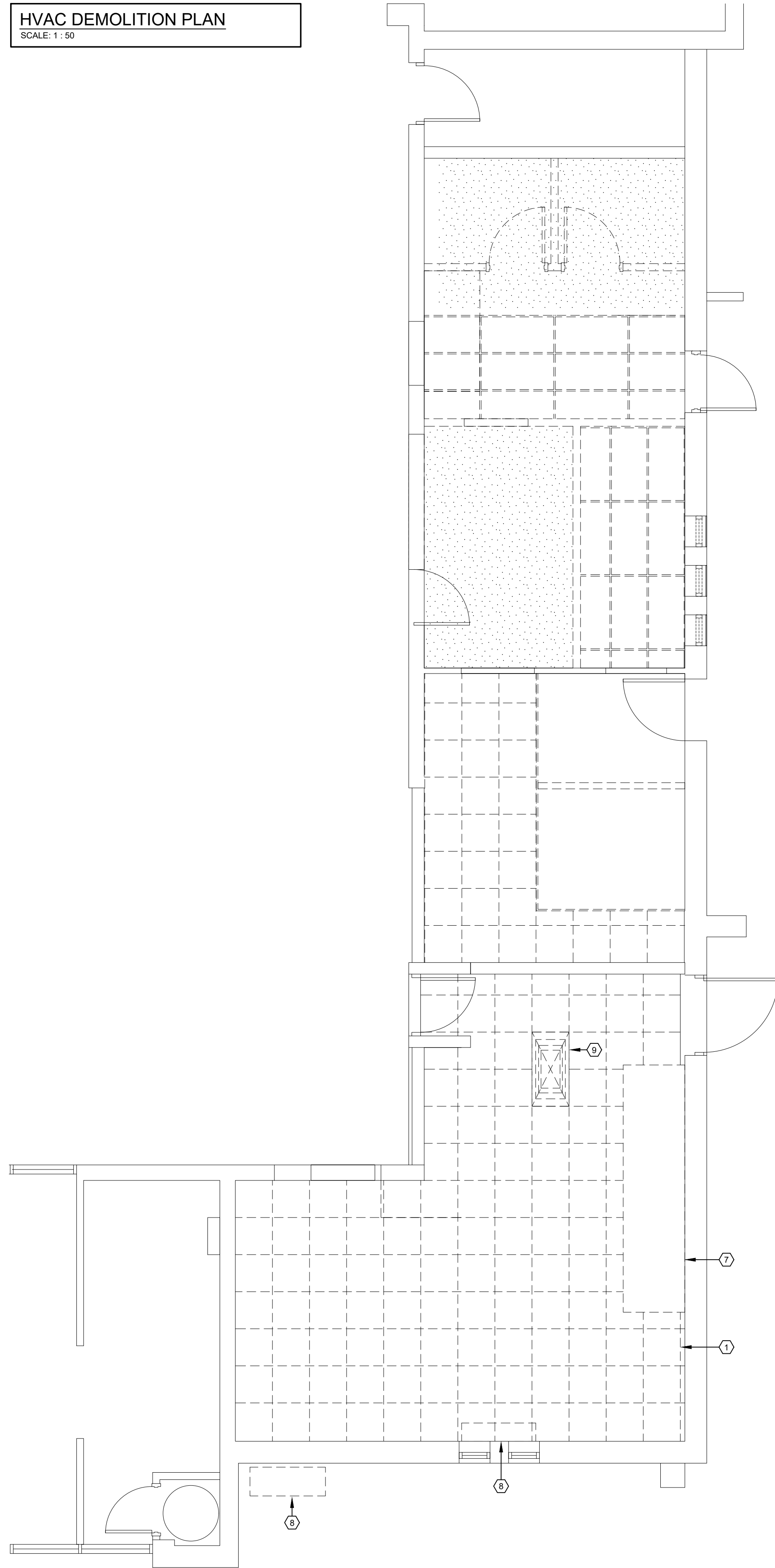
Phones: (647) 838-4805 ; (905) 719-1482

PROJECT	HOLY TRINITY CROATIAN PARISH HALL RENOVATION
2110 TRAFALGAR RD., OAKVILLE, ON, L6H 7H2	
DRAWING	ROOF FRAMING PLAN, SECTION AND DETAILS
Design By:	TD/AF
Date:	2025-05-13
Project No.:	25042501
Drawn By:	AF
Drawing No.:	S1.1
Scale:	AS NOTED

PLUMBING DEMOLITION PLAN
SCALE: 1 : 50



HVAC DEMOLITION PLAN
SCALE: 1 : 50



KEY NOTES:

- 1 LINE TYPE NOTES EXISTING TO BE DEMOLISHED, TYPICAL.
- 2 EXISTING PLUMBING FIXTURE IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. CUT BACK ALL EXISTING PLUMBING SERVICES FROM FIXTURE AND CAP OFF AT MAIN SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 3 EXISTING RECESSED IN FLOOR GREASE INTERCEPTOR IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. CUT BACK ALL EXISTING PLUMBING SERVICES FROM FIXTURE AND CAP OFF AT MAIN SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 4 EXISTING WALK IN COOLER C/W COMPRESSOR, REFRIGERANT PIPING, ETC. IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 5 EXISTING COMMERCIAL CHEMICAL RINSE HIGH TEMP DISHWASHER C/W BOOSTER HEATER AND ALL ASSOCIATED COMPONENTS IS TO BE REUSED / REINSTALLED INTO NEW KITCHEN LAYOUT. DISCONNECT AND REMOVE EXISTING PLUMBING SERVICES FROM FIXTURE AND CAP OFF AT MAIN SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION. REFER TO NEW PLUMBING PLAN FOR MORE INFO.
- 6 EXISTING GAS SERVICE LINES TO BE REMOVED AND REWORKED TO SUIT NEW KITCHEN LAYOUT. REFER TO NEW KITCHEN PLANS FOR MORE INFORMATION.
- 7 EXISTING KITCHEN EXHAUST HOOD, C/W ALL ASSOCIATED DUCTWORK, CONTROLS, ROOF TOP MOUNTED EXHAUST FAN, MAKE UP AIR INTAKE AIR DUCT, FIRE SUPPRESSION SYSTEM, ETC. IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 8 EXISTING DUCTLESS AIR CONDITIONING UNIT / SYSTEM C/W ALL ASSOCIATED CONTROLS, REFRIGERANT PIPING, ETC. IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 9 EXISTING DUCTLESS AIR CLEANING UNIT SYSTEM C/W ALL ASSOCIATED CONTROLS, ETC. IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.

SEAL

1	ISSUED FOR TENDER	05.28.2025
0	ISSUED FOR PERMITS	05.21.2025
-	ISSUED FOR REVIEW	05.21.2025

NO	REVISIONS	DATE
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PROJECT:

HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION
2110 TRAFALGAR RD, OAKVILLE
ON L6H 7S2

DRAWING TITLE:

MECHANICAL
DEMOLITION PLANS

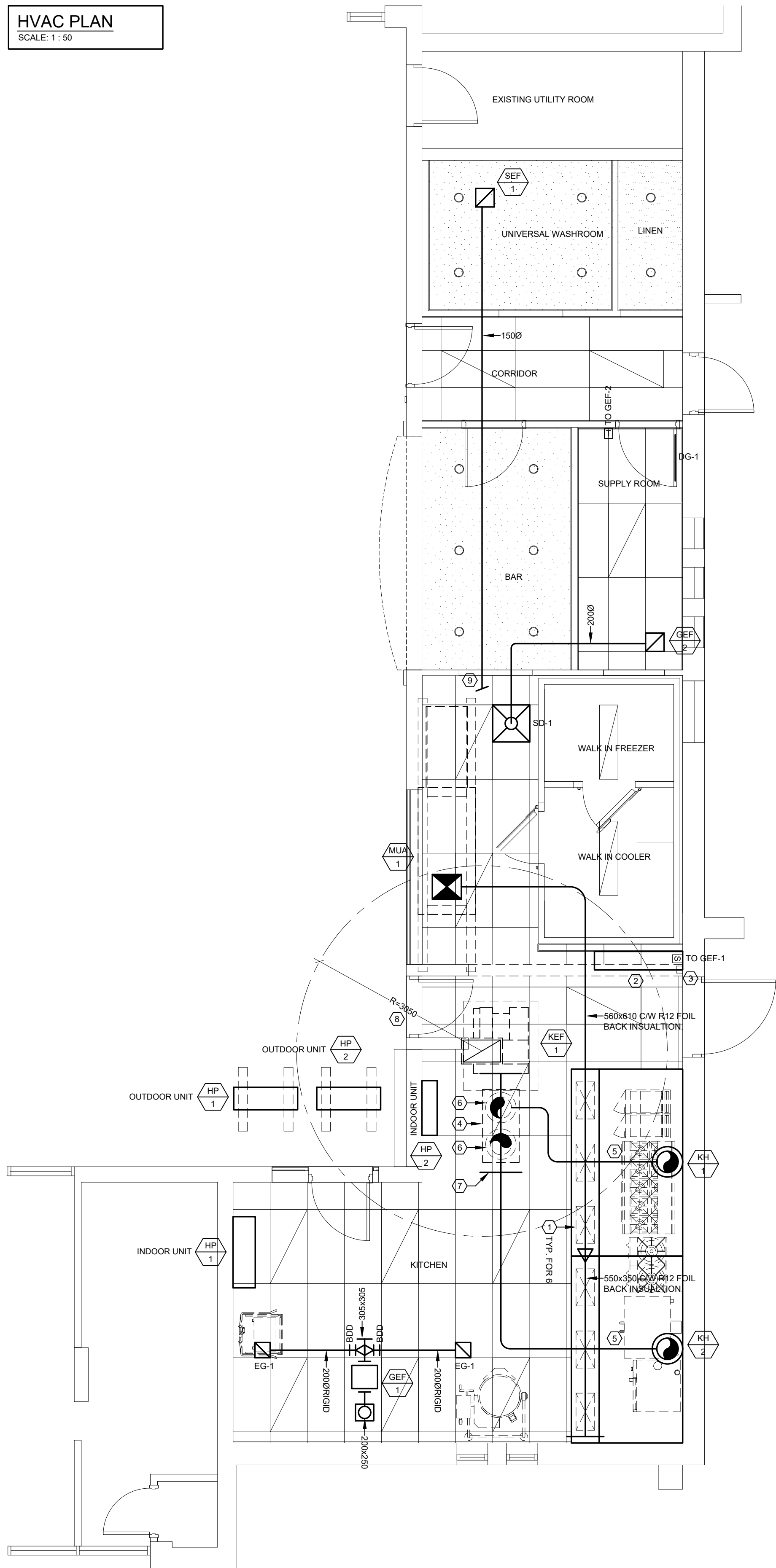
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SCALE: AS NOTED	PROJECT: 25011
DATE: MAY.2025	
DRAWN MR	DRAWING M1 / 5
CHECKED JM	

HVAC PLAN
SCALE: 1 : 50



KEY NOTES:

- DUCT RISER FROM MAKE UP AIR SUPPLY COLLARS TO BE DUCTED TO MAIN MAKE UP AIR DUCTWORK, TYPICAL FOR 6.
- HOOD UTILITY SYSTEM BOX C/W FIRE SUPPRESSION, CONTROLS.
- PROPOSED LOCATION OF HOOD START / STOP CONTROL AND EMERGENCY FIRE SUPPRESSION SYSTEM PULL STATION.
- REUSE / REWORK EXISTING ROOF OPENING TO SUIT 2 NEW KITCHEN HOOD EXHAUST DUCTS RISERS FROM HOODS THROUGH THE ROOF. REFER TO ARCHITECTURAL DETAILS FOR NEW ROOF CURB DETAILS, FLASHING, ETC. BY THE ROOFING CONTRACTOR.
- CAPTIVE AIRE MODEL: DW-3Z RATED DOUBLE WALL GREASE EXHAUST DUCTWORK C/W ALL ELBOWS, TURNS, CLEAN OUTS, CONNECTORS, JOISTS, SEALANT, ETC. CONNECTED TO HOOD COLLAR. PERFORM ALL INSTALLATIONS IN ACCORDANCE WITH THE MANUFACTURES SHOP DRAWINGS. ONCE DEMOLITION HAS BEEN COMPLETED PERFORM SITE MEASURE TO DETERMINE EXACT DUCT LENGTHS, ELBOWS, ETC. REQUIRED. PROVIDE SHOP DRAWINGS FOR APPROVAL.
 - 3550 INNER DUCT DIAMETER / 5100 OUTER DUCT DIAMETER
 - 1950 CFM @ 1825 FPM.
- GREASE EXHAUST DUCT UP THOUGH ROOF / ROOF CURB CONNECTED TO MAIN HORIZONTAL DUCT ON ROOF. (SEE NOTE 7).
- CAPTIVE AIRE MODEL: DW-3Z RATED DOUBLE WALL GREASE EXHAUST DUCTWORK: HORIZONTAL MOUNTED ON ROOF C/W CLEAN OUT & CONNECTED TO SIDE INLET OF ROOF TOP MOUNTED GREASE EXHAUST FAN. PROVIDE PAVERS AND GALVANIZED STEEL SUPPORT STANDS TO SUPPORT DUCT. PERFORM ALL INSTALLATIONS IN ACCORDANCE WITH THE MANUFACTURES SHOP DRAWINGS.
 - 5100 INNER DUCT DIAMETER / 6600 OUTER DUCT DIAMETER
 - 3800 CFM @ 1788 FPM.
- MINIMUM 3050mm (10'-0") CLEARANCE FROM EXHAUST FAN DISCHARGE TO MAKE UP AIR INTAKE HOOD.
- DISCHARGE NEW SANITARY EXHAUST FAN DUCT TO EXISTING EXTERIOR TERMINATION POINT SERVING PREVIOUS WASHROOM BEING DEMOLISHED. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.

HVAC LEGEND	
DESCRIPTION	SYMBOL
RECT. / ROUND SUPPLY AIR DUCT UP / DOWN	
RECT. & ROUND RETURN OR EXHAUST AIR DUCT UP / DOWN	
THERMOSTAT C/W GUARD	
DUCT TRANSITION	
FIRE DAMPER	FD
FLEXIBLE DUCT CONNECTION	FC
AIR BALANCING DAMPER	
BACK DRAFT DAMPER	BDD
OPPOSED BLADE DAMPER	OPD
FIRE DAMPER	FD
DUCTED AIR TRANSFER	A/T
UNDER CUT	U/C
SPLITTER DAMPER	SD

NOTE:

A OWNER CERTIFIED & APPROVED ROOFING CONTRACTOR SHALL SUPPLY & INSTALL AC LINE SHACK SYSTEMS FOR ALL MECHANICAL EQUIPMENT REFRIGERANT TUBING, ELECTRICAL / CONNECTIONS, CONTROL WIRING SYSTEMS, ETC. MECHANICAL CONTRACTOR IS TO COORDINATE ALL LOCATIONS ON SITE WITH THE ROOFING CONTRACTOR. REFER TO ARCHITECTURAL DETAILS & SPECIFICATIONS FOR MORE INFORMATION.

SEAL

1	ISSUED FOR TENDER	05.28.2025
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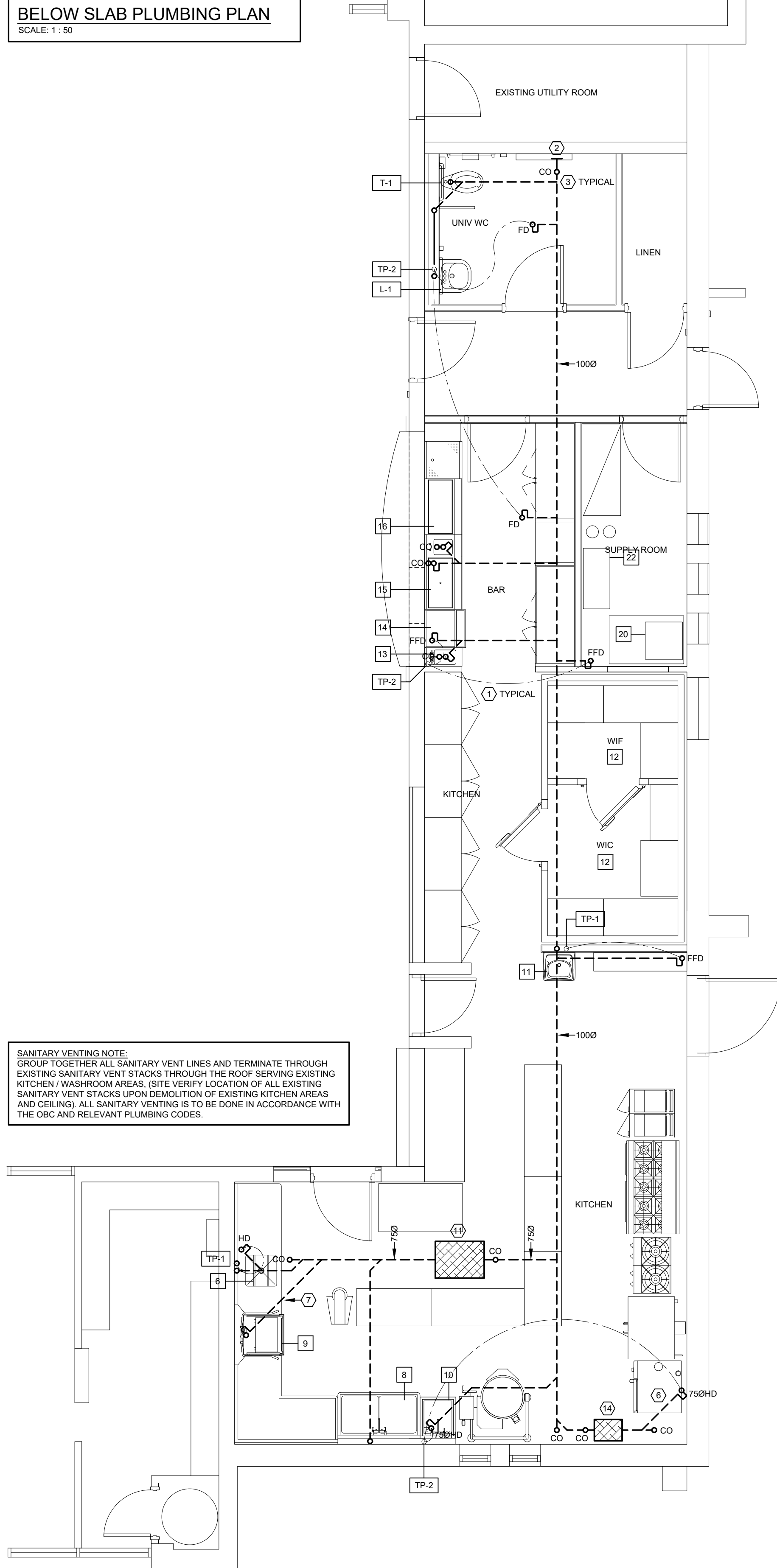
DRAWING TITLE:
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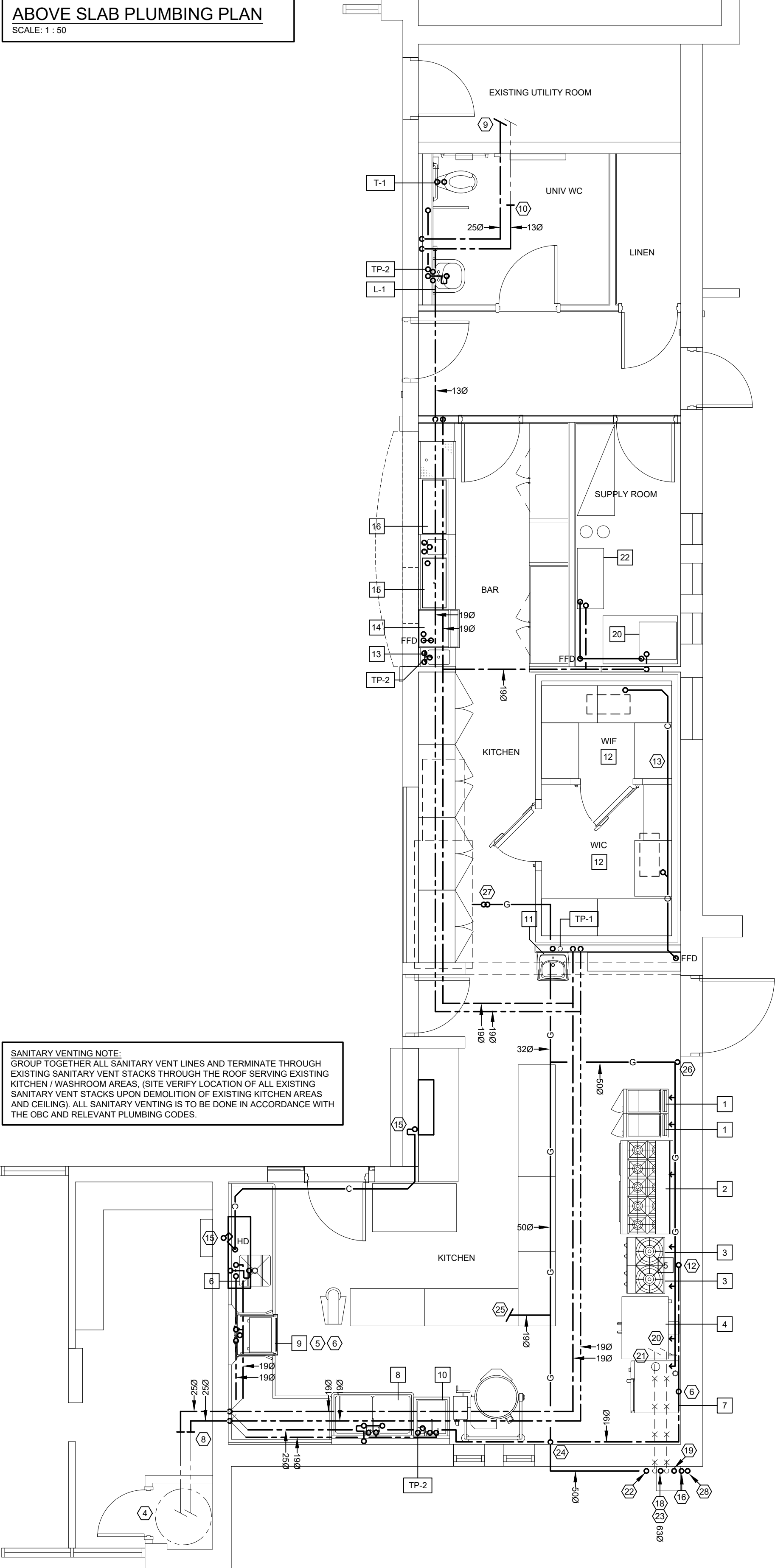
SCALE: AS NOTED	PROJECT: 25011
DATE: MAY.2025	
DRAWN MR	DRAWING
CHECKED JM	M2 / 5

BELOW SLAB PLUMBING PLAN
SCALE: 1 : 50



SANITARY VENTING NOTE:
GROUP TOGETHER ALL SANITARY VENT LINES AND TERMINATE THROUGH EXISTING SANITARY VENT STACKS THROUGH THE ROOF SERVING EXISTING KITCHEN / WASHROOM AREAS, (SITE VERIFY LOCATION OF ALL EXISTING SANITARY VENT STACKS UPON DEMOLITION OF EXISTING KITCHEN AREAS AND CEILING). ALL SANITARY VENTING IS TO BE DONE IN ACCORDANCE WITH THE OBC AND RELEVANT PLUMBING CODES.











ABOVE SLAB PLUMBING PLAN
SCALE: 1 : 50



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KEY NOTES:

- TRAP SEAL, PRIMER LINE BELOW SLAB, TYPICAL.
- IMPORTANT NOTE:
X-RAY / SCAN FLOOR SLAB TO LOCATE EXISTING BASE BUILDING MAIN SANITARY SERVICE LINE LOCATION, SIZE, INVERT & FLOW DIRECTION. GROUP ALL NEW SANITARY LINES TOGETHER AND CONNECT TO EXISTING MAIN BASE BUILDING SANITARY LINE.
- ONCE LOCATION, INVERT, CONNECTION POINT AND FLOW DIRECTION OF EXISTING SANITARY LINE HAS BEEN DETERMINED ON SITE PROVIDE 45° TURNS ON ALL SANITARY SERVICE BRANCH LINES IN FLOW DIRECTION OF NEW MAIN LINE.
- EXISTING HOT WATER TANK IS TO REMAIN AS IS. INSPECT AND REPORT ANY DISCREPANCIES. RHEEM RUUD MODEL PV75C-1.
- RELOCATED POSITION OF EXISTING DISHWASHER, DISHWASHER BOOSTER HEATER, SANITATION CONTROL, THERMAL EXPANSION TANK, DETERGENT LINES AND ALL OTHER ASSOCIATED COMPONENTS. REFER TO DEMOLITION PLAN FOR MORE INFO.
- SUPPLY AND INSTALL A COLD WATER DRAIN TEMPERING VALVE ON DRAIN LINE SERVING DISHWASHER EQUAL TO THERMO OMEGA TECH.
- #9-DISHWASHER 3/4" COLD TEMPERING VALVE.
#7-COMBI OVEN 1/2" DRAIN TEMPERING VALVE.
- #9-DISHWASHER & #7-COMBI OVEN DRAIN LINE PIPING TO BE CAST IRON OR COPPER DRAIN PIPE MATERIAL.
- CONNECT TO EXISTING HOT AND COLD WATER LINES IN CEILING SPACE AND DISTRIBUTE NEW PIPING AS SHOWN.
- CONNECT TO MAIN DOMESTIC WATER SERVICE PIPE IN EXISTING UTILITY ROOM AND DISTRIBUTE NEW LINE TO SERVICE UNIVERSAL WASHROOM. SITE VERIFY BEST CONNECTION POINT.
- CONNECT NEW HOT WATER LINE TO EXISTING LINE SERVING MOP SINK IN EXISTING UTILITY ROOM. SITE VERIFY BEST CONNECTION POINT.
- GREASE INTERCEPTOR CALCULATION:
PEAK RINSE SINK: $24" \times 12" = 850 \text{ cu"} \times 2$
2 COMPARTMENT SINK: $(24" \times 24" \times 14") \times (2) = 16128 \text{ cu"} \times (20268 \times 231 \text{ gpm}) \times (0.75) = 2 \text{ MIN DRAIN FLOW RATE} = 33.97 \text{ GPM}$
DISHWASHER: 15 GPM PEAK RATE DRAIN FLOW RATE
TOTAL = 48.97 GPM
SUPPLY & INSTALL RECESSED FLUSH IN FLOOR GREASE INTERCEPTOR EQUAL TO: MIFAB MG-7, 50.0 GPM FLOW RATE, 1" DRAIN, 100 LB GREASE CAPACITY.
- COLD WATER LINE TO SERVE POT FILLER.
- COOPER CONDENSATE DRAIN LINES FROM WALK IN COOLER / FREEZER EVAPORATORS TO BE HEAT TRAPPED AND INSULATED. TERMINATE INDUCT ABOVE F.D.
- COMBI OVEN DISCHARGE PEAK RATE DRAIN FLOW = 3.0 GPM
SUPPLY & INSTALL RECESSED FLUSH IN FLOOR GREASE INTERCEPTOR EQUAL TO: MIFAB MG-7, 7.0 GPM FLOW RATE, 1" DRAIN, 14 LB GREASE CAPACITY.
- CONDENSATE DRAIN LINE FROM DUCTLESS HEAT PUMP UNIT TERMINATED INDUCT ABOVE DRAIN.
- EXISTING RECTORY GAS METER # 2 IS TO REMAIN AS IS.
- EXISTING RECTORY GAS LINE DOWN & BURIED BELOW GRADE TO RECTORY IS TO REMAIN AS IS.
- EXISTING RECTORY GAS METER # 1 - PRIOR TO ANY BID OR WORK GAS FITTER SHALL VERIFY LOCAL NATURAL GAS COMPANY / PROVIDER AND VERIFY EXISTING GAS SERVICE & METER SIZE / CAPACITY. IF REQUIRED UPGRADE GAS SERVICE & METER TO SUIT NEW GAS LOAD, (2570.1 MBH - SEE CODED NOTES 19 - 28 FOR MORE INFO.).
- EXISTING GAS LINE FED FROM METER # 1 DOWN & BURIED BELOW GRADE TO CHURCH REMOTE MOUNTED HVAC UNIT IS TO REMAIN AS IS, (APPROX. 210.0 MBH GAS LOAD).
- EXISTING GAS LINE FED FROM METER # 1 THROUGH BLOCK WALL, IS TO BE DISCONNECTED AND REMOVED DUE TO NEW HOOD INSTALLATION, (380 SERVING EXISTING KITCHEN APPLANCES).
- EXISTING GAS LINE FED FROM METER # 1 THROUGH BLOCK WALL, IS TO BE DISCONNECTED AND REMOVED DUE TO NEW HOOD INSTALLATION, (230 SERVING EXISTING HOT WATER TANK).
- EXISTING GAS LINE FED FROM METER # 1 UP INTO ATTIC SPACE IS TO REMAIN AS IS AND RE-CONNECTED TO NEW METER # 1 SERVICE LINE, (SERVING CHURCH REMOTE MOUNTED HVAC UNIT, APPROX. 400.0 MBH GAS LOAD).
- NEW GAS LINE / HEADER FROM METER # 1.
- NEW GAS LINE THROUGH WALL AND UP INTO KITCHEN ATTIC SPACE. DISTRIBUTE NEW PIPING AS SHOWN.
- RECONNECT EXISTING GAS LINE SERVING HOT WATER TANK IN ATTIC SPACE TO NEW GAS SERVICE LINE, (SITE VERIFY EXACT LOCATION AFTER DEMOLITION).
- GAS LINE DOWN TO EMERGENCY GAS SHUT-OFF VALVE AND GAS SOLENOID VALVE CONNECTED TO CAPTIVE AIR UTILITY CABINET TO SHUT DOWN SERVICE VALVE UPON EMERGENCY ACTIVATION. CONTINUE PIPING / MANIFOLD TO SERVICE COOKING EQUIPMENT.
- GAS LINE UP THROUGH ROOF TO SERVICE NEW MAKE UP AIR UNIT.
- EXISTING GAS LINE FED FROM METER # 1 UP INTO ATTIC SPACE IS TO REMAIN AS IS AND RE-CONNECTED TO NEW METER # 1 SERVICE LINE, (SERVING CHURCH REMOTE MOUNTED HVAC UNITS, APPROX. 630.0 MBH GAS LOAD).

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	SAN. LINE ABOVE SLAB/GRADE
	SAN. LINE BELOW SLAB/GRADE
	CLEAN OUT
	FLOOR DRAIN
	COMBINATION FLOOR FUNNEL DRAIN
	HUB DRAIN
	COLD WATER LINE
	HOT WATER LINE
	GAS LINE
	NON FREEZE HOSE BIBB C/W SHUT OFF VALVE & LOCK BOX

NOTE:
A OWNER CERTIFIED & APPROVED ROOFING CONTRACTOR SHALL SUPPLY & INSTALL ANY PITCH POCKETS FOR MECHANICAL EQUIPMENT GAS PIPING, ETC.

SEAL

1	ISSUED FOR TENDER	05.28.2025
0	ISSUED FOR PERMITS	05.21.2025
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NO	REVISIONS	DATE

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THE CONTRACTOR AND SUB-TRADES ARE RESPONSIBLE TO CONTACT THE ENGINEER IN ADVANCE IN ORDER TO SCHEDULE REQUIRED SITE VISITS AND PROVIDE INSPECTION REPORTS AS REQUIRED IN ACCORDANCE WITH THE GENERAL COMMITMENT & REVIEW PROCESS BY ARCHITECTS AND ENGINEERS.

ENGINEERING CONSULTANTS:



RM
ENGINEERING

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PROJECT:

HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION

2110 TRAFALGAR RD, OAKVILLE
ON L6H 7S2

DRAWING TITLE

MECHANICAL PLUMBING PLAN

GRGURIC
ARCHITECTS
INCORPORATED



28 KING STREET EAST, UNIT B
STONE CREEK, ONTARIO, L8G 1J8
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SCALE:
AS NOTED

DATE:
MAY.2025

DRAWN
MR

CHECKED
JM

PROJECT

25011

DRAWING

M3 / 5

GENERAL MECHANICAL CONSTRUCTION NOTES.	
1.	PERFORM ALL INSTALLATIONS IN ACCORDANCE WITH ALL RELEVANT CODES AND STANDARDS.
2.	ALL PENETRATIONS TO BASE BUILDING STRUCTURE INCLUDING FLOOR WORK, EXTERIOR WALL WORK, ROOF WORK, FLASHING, ETC. IS TO BE PERFORMED BY A CERTIFIED, INSURED OWNER APPROVED CONTRACTOR.
3.	PROVIDE SUPPORT FOR ALL NEW EQUIPMENT IN ACCORDANCE WITH STRUCTURAL ENGINEER / ENGINEERING DETAILS.
4.	UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM ALL COOKING EQUIPMENT UNDER EXHAUST HOOD IS TO SHUT DOWN. PROVIDE AUTOMATIC SHUT OF SOLENOID VALVE FOR GAS EQUIPMENT. REFER TO AND COORDINATE ALL THESE ITEMS WITH THE ELECTRICAL CONTRACTOR AND CAPTIVE AIRE SHOP DRAWINGS.
5.	FIRE ALARM CONTRACTOR TO CONNECT THE TENANTS MAIN KITCHEN HOOD CONTROL PANEL TO MAIN BUILDING FIRE ALARM PANEL.
6.	SITE VERIFY BEST INSTALLATION, ELEVATION / ARRANGEMENT OF ALL DUCTWORK TO BEST SUIT SITE CONDITIONS. PROVIDE AS-BUILT MARK UP.
7.	WHERE CLEARANCES TO ANY COMBUSTIBLES CANNOT BE MAINTAINED, ALL WELDED DUCT IS TO BE WRAPPED IN 2 LAYERS OF EQUAL TO 3M TYPE FIRE BLANKET FOR GREASE EXHAUST DUCT FIRE PROTECTION SYSTEM. PERFORM ALL INSTALLATIONS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
8.	PROVIDE ACCESSIBLE GREASE CLEAN OUTS ON ALL WELDED DUCTWORK AT ALL ELBOWS AND RISERS IN ACCORDANCE WITH NFPA REQUIREMENTS.
9.	ADDITIONAL DUCT TRANSITIONS, ELBOWS, ETC. MAY BE REQUIRED ONCE A SITE MEASURE HAS BEEN PERFORMED AND A S.O.M. HAS BEEN OBTAINED.
10.	CARRY COST IN BID TO HIRE A FIRE SUPPRESSION SYSTEM INSTALLER TO ARRANGE FOR ENGINEER FIRE SUPPRESSION SYSTEM SHOP DRAWINGS, (SEALED BY AN ENGINEER QUALIFIED TO PRACTICE IN THE PROVINCE OF ONTARIO). APPLY FOR AND PAY FEES FOR THE SUPPRESSION SYSTEM PERMIT APPLICATIONS & INSPECTIONS.
11.	PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING OR INSTALLING ANY NEW EQUIPMENT.
12.	ALL EQUIPMENT MUST BE LISTED AND APPROVED FOR USE IN CANADA.
13.	ALL EXISTING BASE BUILDING DUCTS, EQUIPMENT, PIPES, ETC. NOT SHOWN ON PLAN, BUT PASSING THROUGH CEILING SPACE IS TO REMAIN AS IS.

GENERAL REQUIREMENTS FOR COMMERCIAL COOKING EQUIPMENT	
SECTION REF.	ITEM REQUIREMENTS
2	- EXHAUST SYSTEM REQUIRED
311	- HOOD 20 GAUGE STEEL
	- HOOD 16 GAUGE STEEL
321	- ALL JOINTS HAVE LIQUID TIGHT CONTINUOUS EXTERNAL WELDS
32	- GUTTER PROVIDED UNDER FILTER
33	- HOODS OR ENCLLOSURES ARE "ULC" LISTED
412	- DUCT 16 GAUGE STAINLESS STEEL
	- DUCT 16 GAUGE STEEL
4122 (a)	- DUCT HAVE LIQUID TIGHT CONTINUOUS EXTERNAL WELD
(b)	- DUCT LEADS DIRECTLY TO OUTSIDE WITHOUT TRAPS
(c)	- DUCT SUPPORT - INSIDE BUILDING
(d)(1)	- VERTICAL DUCT INSIDE HAVE 2 HR. SHAFT < 4 STOREYS
(2)	- VERTICAL DUCT INSIDE HAVE 2 HR. SHAFT > OR = 4 STOREYS
(4)	- VERTICAL SHAFT ACCESS DOOR MEET N.F.P.A. #80 (1978)
(d)	- EXHAUST SYSTEM SERVICES ONLY ONE FLOOR
(e)	- EXHAUST SYSTEM SERVES COMMERCIAL COOKING ONLY
(f)	- CLEANOUT AND ACCESS DOORS FOR EACH CHANGE OF DIRECTION
(g)	- DUCT DO NOT PASS THROUGH FIRE SEPARATIONS
4123 (a)	- DUCT SUPPORT - OUTSIDE BUILDING
(b)	- RESIDUE TRAP AT BASE OF RISER-EXTERIOR ONLY
4131	- DUCT TERMINATES 40" ABOVE FINISHED ROOF
	- DUCT TERMINATES 10 FT. FROM PROPERTY LINES
4132	- AIR INTAKES, ADJACENT BUILDINGS AND ADJAINING GRADE LEVELS
4133	- RESIDUE TRAP UNDER HORIZONTAL DISCHARGE
512	- PILOT RUNNING LIGHT IS PROVIDED
52	- AIR VELOCITY IS 500 (MIN.)
53 (a)	- AN ADEQUATE SUPPLY OF MAKE-UP AIR SHALL BE PROVIDED (CONSIDERATION SHOULD BE GIVEN TO TEMPERING THE AIR)
(b)	- WHEN MAKE-UP AIR IS INTRODUCED INTO THE HOOD THE MAKE-UP AIR DUCT SHALL BE EITHER 1) SAME GAUGE AS HOOD WITH ALL JOINTS CONTINUOUSLY WELDED OR 2) AN APPROVED TYPE FIRE DAMPER IS INSTALLED AT THE INLET. THE MAKE-UP AIR DUCT CONNECTION NEED NOT TO BE WELDED AND CAN BE CONSTRUCTED OF NORMAL GAUGE.
611	- FILTERS ARE "ULC" LABELLED FOR USE
81	- DAMPERS SHALL NOT BE INSTALLED IN DUCTS ON EXHAUST DUCTS SYSTEMS UNLESS SPECIFICALLY LISTED FOR SUCH USE OR REQUIRED AS PART OF A LISTED OR APPROVED DEVICE OR SYSTEM.
1033	- AUTOMATIC SHUT-OFF OF FUEL SOURCES
APPENDIX "B"	
PROTECTION AND CLEARANCE FROM COMBUSTIBLE MATERIALS	
3	28 GAUGE SHEET METAL SPACED OUT 9"
6	22 GAUGE SHEET ON 1" ON NON-COMBUSTIBLE SPACERS 3"
APPENDIX "C"	
18" CLEARANCE CAN BE REDUCED TO 0" IF THE COMBUSTIBLE MATERIAL IS PROTECTED BY THE FOLLOWING:	
1. STAINLESS STEEL OR ANY EQUIVALENT MATERIAL.	

KITCHEN EXHAUST HOOD	
-	THE KITCHEN EXHAUST HOOD SHALL BE STAINLESS STEEL, FABRICATED AND INSTALLED TO MEET ALL ULC, NFPA AND LOCAL CODE REQUIREMENTS.
-	THE KITCHEN EXHAUST HOOD SHALL BE COORDINATED WITH THE FINAL EQUIPMENT AND SPACE LAYOUT.
-	THE KITCHEN EXHAUST HOOD SHALL BE FURNISHED WITH CUT-OUTS AND FLANGES FOR THE CONNECTION OF THE EXHAUST AND SUPPLY DUCTS AS REQUIRED BY CODE.
-	THE KITCHEN EXHAUST HOOD SHALL BE FURNISHED WITH ALL BALANCING DAMPERS AND FIRE DAMPERS REQUIRED BY CODE.
-	THE KITCHEN EXHAUST HOOD SHALL BE FURNISHED WITH HANGING FLANGES HANGERS
-	KITCHEN HOOD TO BE INSTALLED BY G.C. CONSTRUCTION AND INSTALLATION TO MEET ALL LOCAL CODE REQUIREMENTS. CONTRACTOR TO INCLUDE SHOP DRAWINGS, CUT SHEETS & SPECIFICATIONS FOR HOOD INCLUDING FIRE PROTECTION SYSTEM FIRE PROTECTION SYSTEM TO BE PROVIDED BY HOOD MANUFACTURER.
NOTES	
-	40" DIMENSION IS TO THE SUCTION SIDE OF THE EXHAUST FAN
-	40" CLEARANCE TO FAN OUTLET IF FAN IS THE SAME GAUGE AS THE DUCT
-	FAN BEARINGS AND MOTOR SHALL NOT BE LOCATED IN THE AIR STREAM
-	*CLEARANCE CAN BE REDUCED AS PER APPENDIX "B"
-	*18" CLEARANCE FROM THE DRYWALL OR ANY OTHER COMBUSTIBLE MATERIAL PROVIDE EXTINGUISHER SYSTEM FOR PROTECTION OF DUCT, GREASE
-	REMOVAL DEVICES, HOOD & COOKING EQUIPMENT IN ACCORDANCE WITH N.F.P.A.98

MAKE UP AIR UNIT SCHEDULE										
UNIT REF	MANUFAC.	MODEL	HEATING		SUPPLY FAN			VOLTAGE	WEIGHT	DESCRIPTION
			IN (BTU/H)	OUT (BTU/H)	L.S / CFM	EXT SP	HP			
MUA-1	CAPTIVE AIRE	A2-D 500-20D	367095	337727	1748 / 3704	0.5"	3.0	208V/3PH	315 KG 695 LBS	ROOF TOP MOUNTED GAS MAKE UP AIR UNIT C/W W.P. DISC , SWITCH, ROOF CURB, CONVENIENCE OUTLET, FILTER SECTION, INTAKE DAMPER, CONTROLS, MODULATING GAS VALVE. MAKE UP AIR UNIT TO BE INTERLOCKED OPERATE WITH HOOD FAN THROUGH CAPTIVE AIRE CONTROL PANEL. ALL INSTALLATIONS ARE TO BE PERFORMED AS PER MANUFACTURERS SHOP DRAWINGS. MAKE UP AIR UNIT TO BE MOUNTED ON ROOF CURBS / SLEEPERS, REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.

HOOD EXHAUST FAN SCHEDULE								
UNIT	MANUFACTURER	MODEL	L.S / CFM	S.P.	VOLTAGE	H.P.	WEIGHT	NOTES:
KEF-1	CAPTIVE AIRE	USB24DD-RM	3900	2.0"	208/3PH	3.0	418 KG 921 LBS	TO BE C/W WP DISC, SWITCH & OPERATED THROUGH CAPTIVE AIRE UTILITY CABINET / CONTROL PANEL AND INTERLOCKED WITH MAKE UP AIR UNIT. ALL INSTALLATIONS ARE TO BE PERFORMED AS PER MANUFACTURERS SHOP DRAWINGS. EXHAUST FAN IS TO BE MOUNTED ON ROOF CURBS / SLEEPERS, REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.

HOOD SCHEDULE					
UNIT REF	MAKE / MODEL	LENGTH	EXHAUST	VOLTAGE	NOTES
KH-1	CAPTIVE AIRE - 542i ND-2-PSP-F	10'-0"	1950 CFM	120/1PH	- COMMERCIAL KITCHEN GREASE EXHAUST HOOD - 1" LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL TOP, SIDES, FRONT AND BACK STANDOFFS - ULC LISTED FILTER, CANOPY LIGHTS, ETC. - REMOTE WALL MOUNTED UTILITY BOX C/W CONTROLS, SUPPRESSION SYSTEM CYLINDERS, ETC. - PERFORM INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS AND NFPA CODES AND REGULATIONS
KH-2	CAPTIVE AIRE - 542i ND-2-PSP-F	10'-0"	1950 CFM	120/1PH	- WALL BACKING PANELS BEHIND BOTH HOODS AND ALL COOKING EQUIPMENT IS TO BE IS TO BE SUPPLIED BY CAPTIVE AIRE AND INSTALL BY MECHANICAL CONTRACTOR.

GENERAL EXHAUST FAN SCHEDULE PROVIDE A SEPARATE PRICE IN TENDER FOR THIS SCOPE OF WORK, (SUPPLY & INSTALL.)						
UNIT	MAKE	MODEL	L.S / CFM	S.P.	VOLTAGE	NOTES
GEF-1	GREENHECK	CSP-A710	264 / 560	0.375"	115V/1PH, 4.4 AMPS	1,2,3,4,5,6
GEF-2	GREENHECK	FV1115VK2	71 / 150	0.125"	115V/1PH	7,8
NOTES:						
1. MOUNT FAN IN PLENUM SPACE SPACE SUPPORTED FROM STRUCTURE ABOVE C/W FLEXIBLE CONNECTIONS, HANGING RODS, UNI-STRUT AND VIBRATION ISOLATORS.						
2. INTERNAL MOUNTED ADJUSTABLE SPEED CONTROL DIAL.						
3. TO BE OPERATED BY ON/OFF SWITCH BY THE ELECTRICAL CONTRACTOR, (LABEL SWITCH						
4. DISHWASHER AND STEAM KETTLE GENERAL EXHAUST FAN)						
5. FILTER SECTION / FILTER AT FAN INLET, (LEAVE 10 SPACES WITH OWNER).						
6. RJ-10x10 ROOF CAP FOR MODEL CSP-A710 FAN						
7. MOUNT FAN IN T-BAR CEILING FROM STRUCTURE ABOVE C/W FLEXIBLE.						
8. TO BE OPERATED BY REVERSE ACTING THERMOSTAT BY THE MECHANICAL CONTRACTOR.						

WASHROOM SANITARY EXHAUST FAN SCHEDULE				
UNIT	MAKE	MODEL	L.S / CFM	VOLTAGE
SEF-1	PANASONIC	FV-1115VK2	52 / 110	120V/1PH
NOTES:				
1. SUPPORT FAN FROM STRUCTURE ABOVE.				
2. TO BE OPERATED BY OCCUPANCY SENSOR SWITCH BY THE ELECTRICAL CONTRACTOR.				
3. EXHAUST DUCT TO BE INSULATED MIN. 15" AWAY FROM EXHAUST ROOF PENETRATION.				

AIR DEVICE SCHEDULE											
SYMBOL (1) (2)	MANUFACTURER/ CATALOG NUMBER	NOM. SIZE		MOUNTING		MATERIAL		FINISH (3)	DPR (4)	BORDER (5)	COMMENTS
		SIZE	NECK	CLG.	OTHR.	STL.	ALUM.				
EG-1	E.H. PRICE - 81	305x305		●		●		A		C	EGGGRATE EXHAUST GRILLE C/W DUCTED SHEET METAL PLENUM INLET BOX ON TOP OF GRILLE IN PLENUM SPACE SUITABLE FOR SIDE INLET ROUND DUCT CONNECTION.
DG-1	E.H. PRICE - STG	610x200			●	●		B		B	AIR TRANSFER GRILLE MOUNTED IN DOOR AT LOW LEVEL
SD-1	E.H. PRICE - SPD	610x610		●		●		A		C	FLAT PANEL LAY-IN CEILING DIFFUSER
1. SYMBOL KEY - FIRST LETTER: S-SUPPLY R-RETURN E-EXH T-TRANSFER SECOND LETTER: D-DIFFUSER R-REGISTER G-GRILLE											
2. PROVIDE OPTIONAL DIRECTIONAL BLOW FEATURE FOR OTHER THAN 4-WAY.											
3. FINISH: A - WHITE BAKEN ON ENAMEL FINISH B - TO MATCH DOOR COLOR											
4. VOLUME DAMPER- FACTORY FURNISHED OPPOSED BLADE OR BUTTERFLY TYPE DAMPER ADJUSTABLE BEHIND FROM FACE OF DIFFUSER / GRILLE.											
5. BORDER STYLE- "A" SURFACE MOUNTED "B" PROVIDE WITH FRAME FOR DOOR / DRYWALL MOUNTING PURPOSES. "C" LAY-IN FRAME FOR T-BAR CEILING.											

HEAT PUMP UNIT SCHEDULE					
UNIT REF.	MANUFACTURER MODEL NO.	HEATING CAPACITY	COOLING CAPACITY	VOLTAGE MCA	NOTES:
HP-1	MITSUBISHI INDOOR UNIT: PKA-A38KA8-TH OUTDOOR UNIT: PUZ-HA39NKA	@ 47°F - 38,000 BTUH @ 17°F - 38,000 BTUH @ 5°F - 38,000 BTUH @ -13°F - 30,400 BTUH	33,600 BTUH	208V/1PH 26.0	DUCTLESS HEAT PUMP SYSTEM TO BE: - COLD CLIMATE HYPER HEAT 102 INVERTER TECHNOLOGY - MITSUBISHI THERMOSTATIC CONTROLLER - SERVICE DISCONNECT SWITCHES - FULLY INSULATED REFRIGERANT LINE SETS - FILTERS FOR INDOOR UNITS - PERFORM ALL INSTALLATIONS IN ACCORDANCE WITH THE MANUFACTURERS SHOP DRAWINGS
HP-2	MITSUBISHI INDOOR UNIT: MSZ-FS19NA-U1 OUTDOOR UNIT: MUZ-FS19NAH-U1	@ 47°F - 16,000 BTUH @ 17°F - 16,000 BTUH @ 5°F - 15,360 BTUH @ -13°F - 14,400 BTUH	14,000 BTUH	208V/1PH 18.0	- OUTDOOR UNITS TO BE MOUNTED ON 460mm HIGH STRUCTURAL SLEEPERS, REFER TO STRUCTURAL ENGINEERING DETAILS FOR MORE INFORMATION. - ALL CONTROL & LOW VOLTAGE WIRING FOR SYSTEM IS TO BE BY MECHANICAL CONTRACTOR - START UP AND COMMISSIONING IS TO BE DONE BY MITSUBISHI ELECTRIC CERTIFIED TECHNICIAN. THIS CONTRACTOR SHALL CARRY COST AND CONTACT MITSUBISHI TEM TO COORDINATE THIS WORK).

KITCHEN EQUIPMENT SCHEDULE								
ITEM #	ITEM NAME	COLD WATER	HOT WATER	INDIRECT WASTE	DIRECT WASTE	VENT SIZE	GAS MBH	NOTES
1	FRYER						120.0	C/W ISOLATION VALVE AT APPLIANCE
2	10 BURNER RANGE						396.0	C/W ISOLATION VALVE AT APPLIANCE
3	STOCK POT						110.0	C/W ISOLATION VALVE AT APPLIANCE
4	CONVECTION OVEN						100.0	C/W ISOLATION VALVE AT APPLIANCE
5	POT FILLER	130						
6	PRE RINSE SINK	130	130		380	380		
7	COMBI OVEN	190			500	500	152.0	C/W BACK FLOW PREVENTER C/W ISOLATION VALVE AT APPLIANCE
8	2 COMP. POT SINK	130	130		380	380		
9	EXISTING RELOCATED DISHWASHER	190	190		380	380		SEE PLAN NOTES
10	VEGETABLE PREP. SINK	130	130	●				
11	WALL MOUNTED S.S. HAND SINK & FAUCET	130	130		380	380		
12	WALK IN COOLER / FREEZER			●				SEE PLAN NOTES
13	HAND SINK	130	130		380	380		
14	ICE MAKER	130		●				C/W BACK FLOW PREVENTER
15	COCKTAIL UNIT WITH DUMP SINK	130	130		2 x 380	2 x 380		
16	COCKTAIL UNIT				380	380		
20	ICE MAKER	130		●				C/W BACK FLOW PREVENTER
22	BAG IN BOX POP FILL STATION	130		●				C/W BACK FLOW PREVENTER INSTALL CONDUIT FOR POP UNIT LINES TO BAR. CONFIRM TYPE, SIZE AND ROUTING WITH EQUIPMENT VENDOR SHOP DRAWINGS PRIOR TO SUPPLY & INSTALLATION.

PLUMBING FIXTURE SCHEDULE					
REF	SPECIFICATION	CW	HW	SAN	VENT
T-1	<ul style="list-style-type: none">- AMERICAN STANDARD MADERA 3461.001 BARRIER FREE ELONGATED BOWL FLUSHMETER TOILET- FLOOR MOUNTED VITREOUS CHINA BOTTOM OUTLET TOP SPUD CONFIGURATION- TOP SPUD SELECTRONIC 606B.161 / PK00.HAC SENSOR OPERATED FLUSH VALVE.- TOP SPUD RISER IS TO BE EXTENDED RISER SUCH THAT SENSOR ASSEMBLY AND SENSOR EYE CLEAR THE REAR GRAB BAR MOUNTING HEIGHT @ 36" AFF.- HARD WIRED AC POWERED- CENTOCO 820STSSFE-001 ELONGATED OPEN FRONT SEAT RIM AND SEAT COVER	250		1000	500
L-1	<ul style="list-style-type: none">- AMERICAN STANDARD 0954004EC MURRO BARRIER FREE UNIVERSAL WALL HUNG LAVATORY- WALL HUNG WHITE VITREOUS CHINA SINK WITH 4" OC FAUCET HOLES- WALL CARRIER HANGER SUPPORT KIT- 005802UEC SHROUD KNEE CONTACT GUARD KIT- CHROME OPEN GRID DRAIN- AMERICAN STANDARD INNSBROOK SELECTRONIC ELECTRONIC PROXIMITY LAVATORY FAUCET- 6059.202 HARD WIRED AC POWERED- 605XTM/1070 THERMOSTATIC MIXING VALVE	130	130	380	380
TP-1	- PRESSURE DROP ACTIVATED TRAP SEAL PRIMER DEVICE				
TP-2	- PRESSURE DROP ACTIVATED TRAP SEAL PRIMER DEVICE C/W 2 WAY DISTRIBUTION OUTLET				
NOTES: 1. PERFORM ALL FIXTURE INSTALLATIONS IN ACCORDANCE WITH THE MANUFACTURERS SHOP DRAWINGS 2. REFER TO ARCH. & MANUFACTURER SHOP DRAWINGS FOR A BARRIER FREE MOUNTING INSTALLATION DETAILS. 3. ALL FIXTURES ARE TO BE C/W SHUT OFF VALVES, BOLTS / BOLT CAPS, FLEXIBLE BRAIDED RISER, GASKETS, P-TRAPS, ESCUTCHEONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.					

SEAL

1	ISSUED FOR TENDER	05.28.2025
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THE CONTRACTOR AND SUB-TRADES ARE RESPONSIBLE TO CONTACT THE ENGINEER IN ADVANCE IN ORDER TO SCHEDULE REQUIRED SITE VISITS AND PROVIDE INSPECTION REPORTS AS REQUIRED IN ACCORDANCE WITH THE GENERAL COMMITMENT & REVIEW PROCESS BY ARCHITECTS AND ENGINEERS.

ENGINEERING CONSULTANTS:



PROJECT:

HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION
2110 TRAFALGAR RD, OAKVILLE
ON L6H 7S2

DRAWING TITLE:

MECHANICAL
SCHEDULES

GRGURIC
ARCHITECTS
INCORPORATED

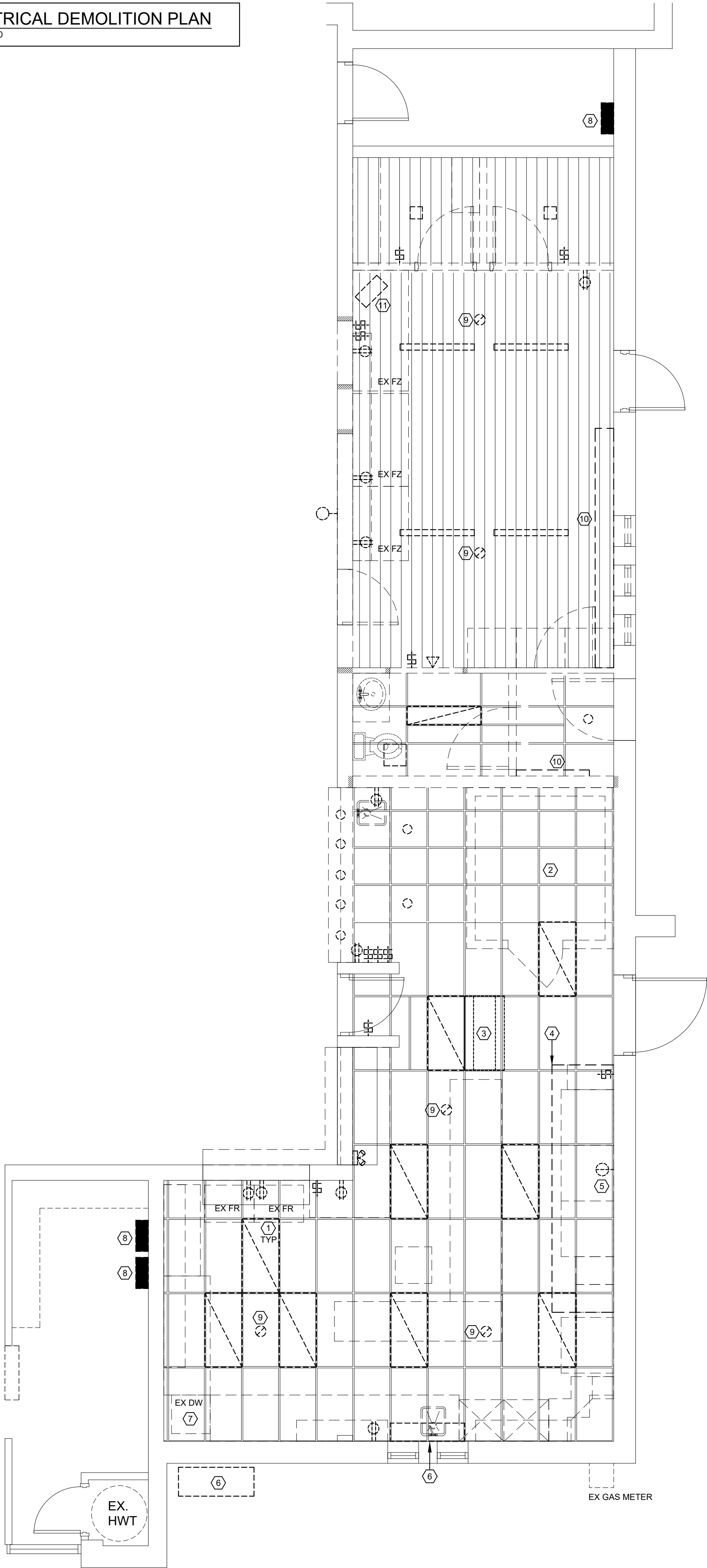


SCALE: AS NOTED	PROJECT:
DATE: MAY.2025	25011
DRAWN MR	DRAWING
CHECKED JM	M4 / 5

[illegible]

ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 50'



DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING ALL ELECTRICAL EQUIPMENT FROM AREAS BEING ALTERED OR DEMOLISHED. WIRING, CONDUIT AND EQUIPMENT REQUIRED TO MAINTAIN SERVICE IN OTHER PARTS OF THE BUILDING SHALL BE TEMPORARILY SUPPORTED, REROUTED, SERVICED OR RELOCATED AS REQUIRED. OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY, CUT BACK AS FAR AS POSSIBLE, AND SHALL BE REMOVED. ALL EXISTING WIRING NOT REMOVED SHALL BE DISCONNECTED, BLANKED-OFF AND MADE SAFE.
2. CONTRACTOR SHALL ENSURE THAT AREAS NOT INCLUDED IN THIS CONTRACT ARE ADEQUATELY PROTECTED FROM DUST, DEBRIS, OR ANY OTHER DAMAGE RESULTING FROM WORK PERFORMED, AND THAT ANY CLEANING OR REPAIR REQUIRED IS PERFORMED WITHOUT COST TO OWNER.
3. CONTRACTOR SHALL ENSURE THAT ALL REFUSE IS REMOVED ON A DAILY BASIS AND THAT JOB SITE IS MAINTAINED IN AN ORDERLY AND SAFE CONDITION.
4. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY ITEMS WHICH ARE DAMAGED DUE TO THIS WORK AT NO EXTRA COST TO THE BUILDING OWNER.
5. REMAINING REMOVED EQUIPMENT AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE WORK.
6. GENERAL CONTRACTOR SHALL REMOVE ALL NECESSARY CEILING TILES TO ALLOW DEMOLITION OF MECHANICAL AND ELECTRICAL SERVICES.
7. MECHANICAL & ELECTRICAL CONTRACTORS SHALL ASSIST THE GENERAL CONTRACTOR IN THE DEMOLITION WORK, BY CUTTING BACK MECHANICAL & ELECTRICAL SERVICES AS NEEDED FOR DEMOLITION WORK.
8. REMOVE EXISTING OUTLETS NOT TO BE REUSED, PULL WIRES BACK TO RESPECTIVE PANEL AND MAKE SAFE.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING GOOD ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF DEMOLITION.

ELECTRICAL DEMOLITION LEGEND

	TOGGLE SWITCH TO BE DISCONNECTED AND REMOVED BACK TO SOURCE
	DUPLEX RECEPACLE TO BE DISCONNECTED AND REMOVED BACK TO SOURCE
	COMMUNICATION OUTLET TO BE DISCONNECTED AND REMOVED BACK TO SOURCE
	LIGHTING FIXTURES TO BE DISCONNECTED AND REMOVED
	EMERGENCY REMOTE HEADS TO BE DISCONNECTED AND REMOVED
	FIRE ALARM DEVICE TO BE DISCONNECTED AND REMOVED

DRAWING CODED NOTES:

- 1 EXISTING LIGHT FIXTURES TO BE DISCONNECTED AND REMOVED. EXISTING CIRCUITRY TO REMAIN AND BE COILED UP IN THE CEILING SPACE AND LEFT FOR FUTURE CONNECTION TO NEW LIGHT FIXTURES. REFER TO DRAWING E2 FOR MORE INFORMATION.
- 2 EXISTING WALK IN COOLER TO BE REMOVE. EXISTING POWER FEEDERS, TRANSFORMERS, CONTROLS ETC. TO BE DISCONNECTED AND REMOVED. EXISTING POWER FEEDERS SERVING WALK IN COOLERS TO BE CUT BACK TO THE BREAKER SOURCE.
- 3 EXISTING POWER TO DUCTLESS AIR CLEANING UNIT SYSTEM TO BE DISCONNECTED AND REMOVED BACK TO SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 4 EXISTING KITCHEN EXHAUST HOOD, C/W ROOF TOP MOUNTED EXHAUST FAN, MAKE UP AIR INTAKE AIR DUCT, FIRE SUPPRESSION SYSTEM, ETC. IS TO BE DISCONNECTED, REMOVED AND DISPOSED OF. EXISTING POWER FEEDERS SERVING EACH EQUIPMENT TO BE CUT BACK TO THE SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 5 ALL EXISTING POWER RECEPTACLES AND CONNECTIONS SERVING EXISTING KITCHEN APPLIANCES TO BE DISCONNECTED AND CUT BACK TO SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 6 EXISTING POWER TO DUCTLESS AIR CONDITIONING UNIT / SYSTEM IS TO BE DISCONNECTED, REMOVED AND CUT BACK TO SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 7 EXISTING COMMERCIAL CHEMICAL RINSE HIGH TEMP DISHWASHER C/W BOOSTER HEATER AND ALL ASSOCIATED COMPONENTS IS TO BE REUSED / REINSTALLED INTO NEW KITCHEN LAYOUT. DISCONNECT AND REMOVE EXISTING POWER FEEDERS AND LEAVE FOR FUTURE CONNECTION TO DISHWASHER. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION. REFER TO NEW POWER PLAN FOR MORE INFO.
- 8 EXISTING ELECTRICAL PANELS TO REMAIN AS IS. CONTRACTOR TO PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR EACH PANEL AFTER DEMOLITION WORK.
- 9 EXISTING FIRE ALARM DEVICES TO BE DISCONNECTED AND REMOVED. EXISTING CIRCUITRY TO REMAIN AND BE COILED UP IN THE CEILING SPACE AND LEFT FOR FUTURE CONNECTION TO NEW FIRE ALARM DEVICES. REFER TO DRAWING E2 FOR MORE INFORMATION.
- 10 EXISTING BASEBOARD HEATER TO BE DISCONNECTED AND REMOVED. CUT BACK POWER FEEDER TO SOURCE. MAKE GOOD / SAFE ALL AREAS AFFECTED BY THIS CONSTRUCTION.
- 11 EXISTING TELEVISION TO BE DISCONNECTED AND REMOVED.

SEAL

1	ISSUED FOR TENDER	05.28.2025
0	ISSUED FOR PERMITS	05.21.2025
--	ISSUED FOR REVIEW	05.21.2025

NO	REVISIONS	DATE
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THE CONTRACTOR AND SUB-TRADES ARE RESPONSIBLE TO CONTACT THE ENGINEER IN ADVANCE IN ORDER TO SCHEDULE REQUIRED SITE VISITS AND PROVIDE INSPECTION REPORTS AS REQUIRED IN ACCORDANCE WITH THE GENERAL COMMITMENT & REVIEW PROCESS BY ARCHITECTS AND ENGINEERS.

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PROJECT:

HOLY TRINITY CROATIAN
PARISH HALL
WASHROOM AND KITCHEN
RENOVATION
2110 TRAFALGAR RD, OAKVILLE
ON L6H 7S2

DRAWING TITLE:

ELECTRICAL
DEMOLITION PLANS

GRGURIC
ARCHITECTS
INCORPORATED

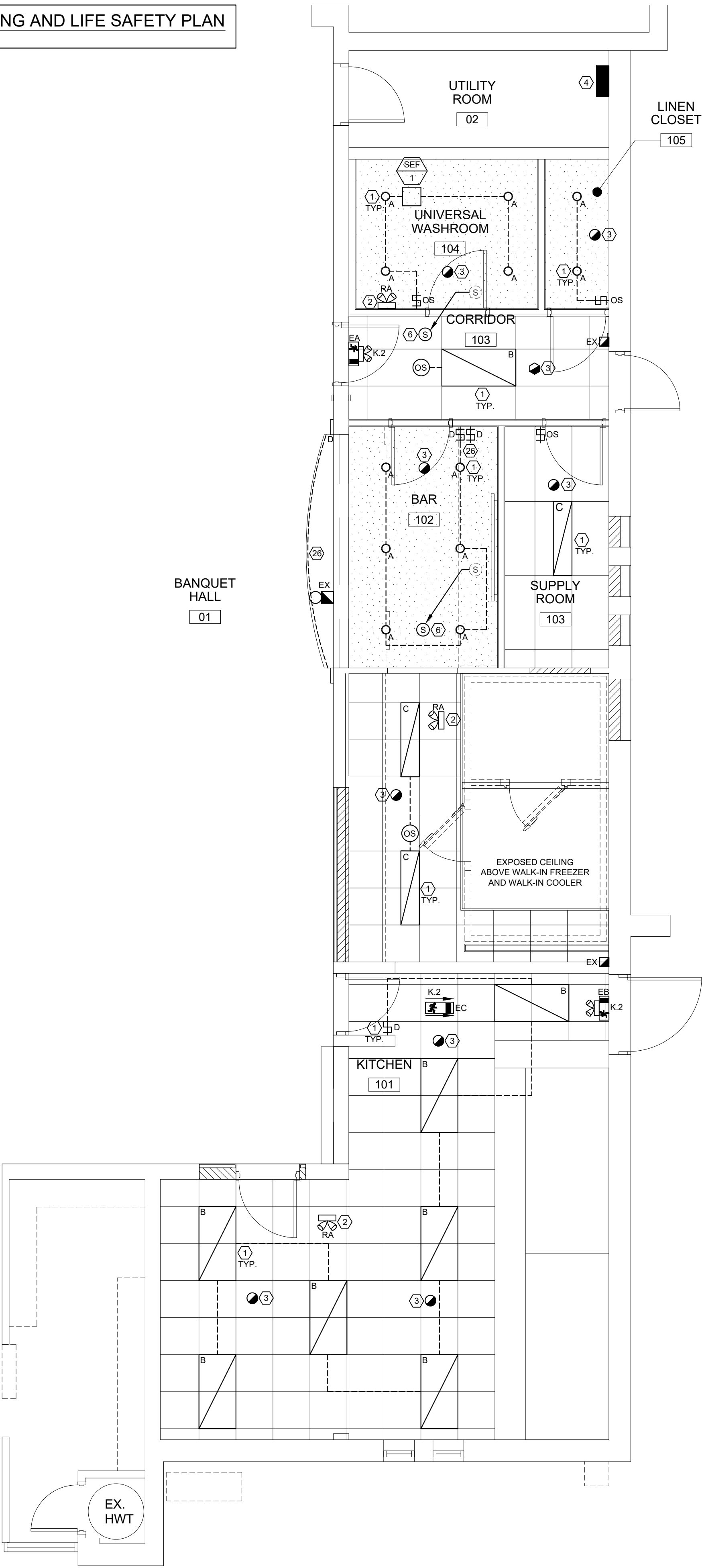


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Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 25011
DATE: MAY 2025	
DRAWN JM	DRAWING
CHECKED JM	E1 / 5

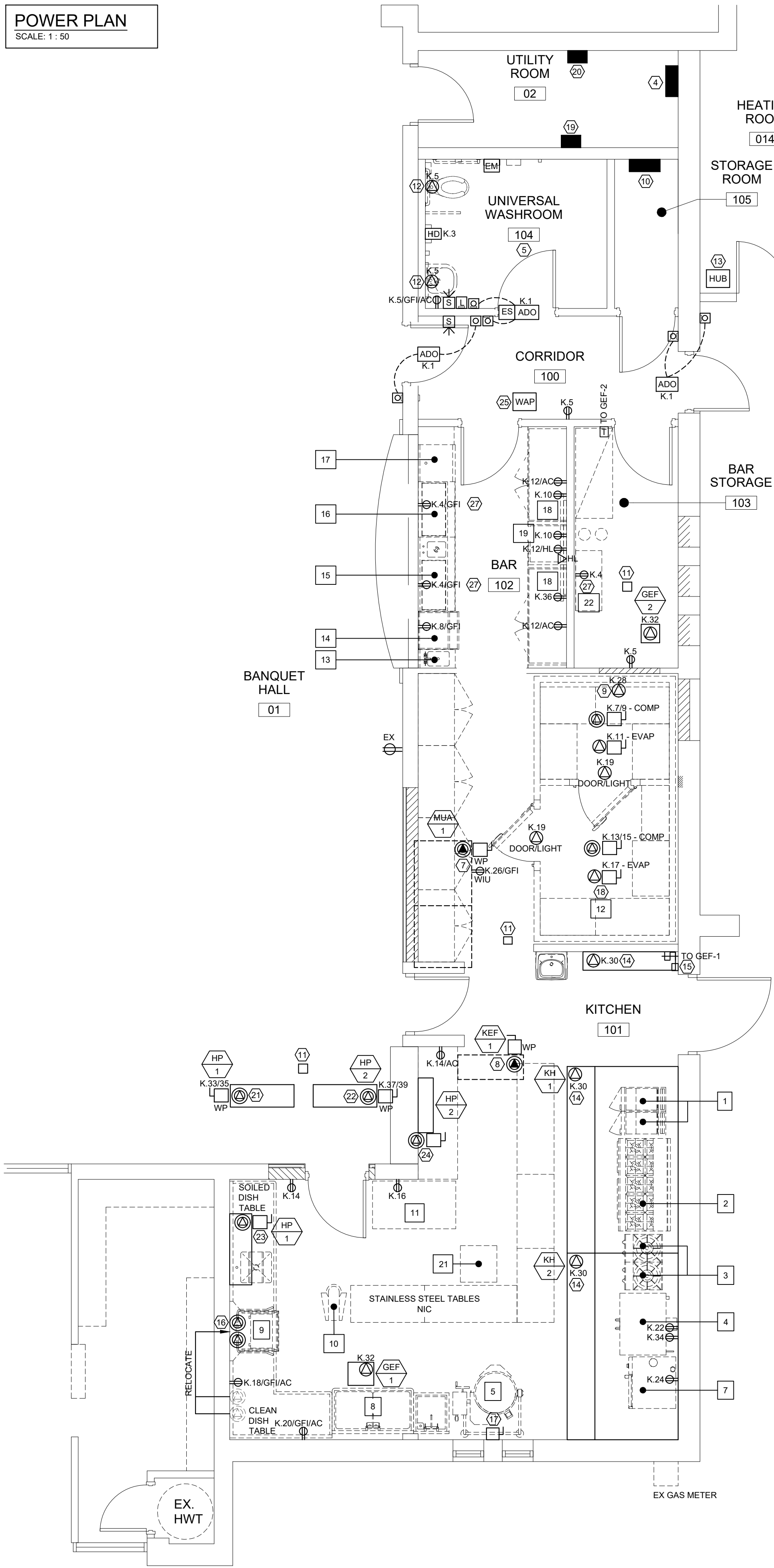
LIGHTING AND LIFE SAFETY PLAN

SCALE: 1 : 50



POWER PLAN

SCALE: 1 : 50



ELECTRICAL GENERAL NOTES

- CONTRACTOR TO EXAMINE SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- COORDINATE ALL EQUIPMENT/SERVICE SHUT DOWN WITH OWNER.
- PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
- COMPLETELY REMOVE ALL DEBRIS AND RUBBISH FROM SPACE DAILY.
- ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE ANY WORK IS BEGUN.
- CONTRACTOR TO MAINTAIN FIRE SEPARATION.
- ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
- PROVIDE CAULKING AND FIRESTOPPING FOR ALL ELECTRICAL SERVICES PASSING THROUGH FIRE SEPARATIONS.
- PROVIDE SEPARATE NEUTRAL WIRE FOR EACH DEDICATED CIRCUIT.
- TO PREVENT SOUND TRANSFER, STAGGER OUTLETS AN EITHER SIDE OF A PARTITION, DO NOT LOCATE BACK TO BACK.
- ALL NEW EQUIPMENT TO BE LABELED. PROVIDE PANEL DIRECTORIES FOR NEW PANELS. UPDATE PANEL DIRECTORIES FOR EXISTING PANELS.
- ALL BRANCH WIRING SHALL BE CONCEALED IN WALLS AND ABOVE HUNG CEILING.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK. CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY WIRES, CONDUIT AND JUNCTION BOXES REQUIRED TO KEEP CONTINUITY.
- VERIFY EXACT POWER REQUIREMENTS OF MECHANICAL EQUIPMENT BEFORE ROUGHING. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURERS ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
- IDENTIFY AND LABEL ALL NEW POWER RECEPTACLES.
- CONTRACTOR MUST PRACTICE PROPER LOCK AND TAG PROCEDURES.
- BEAM CLAMPS ARE NOT PERMITTED TO HANG OR SUPPORT ELECTRICAL SERVICES.
- ALL POWER REQUIREMENTS FOR KITCHEN EQUIPMENT TO BE VERIFIED AND CONFIRMED WITH OWNER. AUTOMATIC SHUT-OFF IS REQUIRED FOR ALL ELECTRICAL EQUIPMENT UNDER THE HOOD. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH KITCHEN SUPPLIER AND MECHANICAL CONTRACTOR TO ENSURE ALL REQUIREMENT ARE MET. ALL INTERLOCKING OF ELECTRIC EQUIPMENT UNDER HOOD TO BE INTERLOCKED WITH SUPPRESSION SYSTEM BY THE ELECTRICAL CONTRACTOR.
- FIRE SUPPRESSION SYSTEM IS TO BE INTERLOCKED WITH BASE BUILDING FIRE ALARM SYSTEM. COORDINATE WITH SYSTEM SUPPLIER.
- BEFORE INSTALLING ANY RECEPTACLES OR OUTLET BOXES FOR KITCHEN EQUIPMENT THIS ELECTRICAL CONTRACTOR IS TO VERIFY TYPE OF CONNECTIONS AND EXACT LOCATIONS OF OUTLETS WITH OWNER.

DRAWING CODED NOTES:

- CONNECT NEW LIGHT FIXTURES AND LIGHTING CONTROL IN LOCATIONS AS INDICATED ON LAYOUT. CONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUITS PREVIOUSLY USED FOR LIGHTING IN THIS AREA. EXTEND FEEDERS TO NEW LOCATIONS AS REQUIRED. TYPICAL FOR ALL LIGHT FIXTURES IN THE AREA.
- NEW EMERGENCY REMOTE HEADS C/W INTEGRATED BATTERY UNIT TO BE FED FROM UNSWITCHED PORTION OF THE NEAREST LIGHTING CIRCUIT AS INDICATED ON LAYOUT.
- PROVIDE NEW HEAT DETECTORS AND SMOKE DETECTORS AS INDICATED ON LAYOUT. EXTEND EXISTING CIRCUITRY PREVIOUSLY USED FOR FIRE ALARM DEVICES IN THIS AREA TO NEW DEVICE LOCATIONS. COORDINATE ALL WORK WITH G.C.
- EXISTING GE FIRESHIELD PLUS MAIN FIRE ALARM CONTROL PANEL. PROVIDE NEW CIRCUITRY FOR ALL NEW DEVICES AS INDICATED ON LAYOUT. PROVIDE NEW DEDICATED ZONE FOR HOOD CONTROL PANEL/FIRE SUPPRESSION SYSTEM. PROVIDE ALL NECESSARY RELAYS AND EQUIPMENT FOR A COMPLETE INSTALLATION. COORDINATE ALL REQUIREMENTS WITH GE PRIOR TO TENDERING.
- REFER TO UNIVERSAL WASHROOM DETAIL ON DRAWING E0.3 FOR MORE INFORMATION.
- EXISTING AUDIO SPEAKERS TO BE RELOCATED AS INDICATED ON LAYOUT. EXTEND EXISTING FEEDERS TO NEW LOCATIONS AS REQUIRED. VERIFY REQUIREMENTS ON SITE.
- PROVIDE POWER FOR NEW MAKE UP AIR UNIT MUA-1 (20A - 208V/3PH) TO BE FED FROM NEW PANEL K (CCTS. K-27/29/31). REFER TO PANEL SCHEDULE ON DRAWING E3 FOR MORE INFORMATION. PROVIDE 3#12 +GND IN 3/4" CONDUIT FROM PANEL K TO HOOD CONTROL PANEL. THEN TO EQUIPMENT LOCATION ON ROOF RESPECTIVELY. COORDINATE ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR. CONFIRM ROUTING OF FEEDERS ON SITE PRIOR TO TENDERING. NEW NEMA 5-20R GFI RECEPTACLE IN 'WIU' COVER IN MUA TO BE PROVIDED BY MUA MANUFACTURER AND FIELD WIRED BY THE ELECTRICAL CONTRACTOR. CONFIRM WITH UNIT SHOP DRAWINGS ON THE EXACT LOCATION OF CONVENIENCE RECEPTACLE. COORDINATE UNIT LOCATION AND ROTATION WITH MECHANICAL CONTRACTOR ON SITE.
- PROVIDE DEDICATED POWER FOR NEW EXHAUST FAN KEF-1 (30A - 208V/3PH) TO BE FED FROM NEW PANEL K (CCTS. K-21/23/25). REFER TO PANEL SCHEDULE ON DRAWING E1.04 FOR MORE INFORMATION. PROVIDE 3#10 +GND IN 3/4" CONDUIT FROM PANEL K TO HOOD CONTROL PANEL. THEN TO EQUIPMENT LOCATION ON ROOF RESPECTIVELY. COORDINATE ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR. CONFIRM ROUTING OF FEEDERS ON SITE PRIOR TO TENDERING. COORDINATE UNIT LOCATION WITH MECHANICAL CONTRACTOR ON SITE.
- PROVIDE POWER TO HEAT TRACING CABLE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH-IN.
- LOCATION OF NEW 200A - 120/208V/3PH/4W PANELBOARD 'K'. REFER TO SINGLE LINE DIAGRAM ON DRAWING E3 FOR MORE INFORMATION.
- A/C LINE SHAK ON ROOF FOR FLEXIBLE POWER CONDUIT RUNS. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR.
- PROVIDE POWER TO TOILET AND FAUCETAS INDICATED ON LAYOUT. CONTRACTOR TO PROVIDE POWER FROM PANEL K (CCT. K.5). VERIFY ON SITE EXACT REQUIREMENTS ON SITE. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR. PROVIDE ALL REQUIRED EQUIPMENT FOR A COMPLETE INSTALLATION. PROVIDE NEW GFI BREAKER.
- EXISTING IT RACK HUB TO REMAIN AS IS. ALL NEW DATA LINES TO BE TERMINATED IN EXISTING PATCH PANELS.
- PROVIDE POWER TO KITCHEN HOODS KH-1 & KH-2 AND REMOTE MOUNTED HOOD UTILITY SYSTEM BOX C/W FIRE SUPPRESSION & CONTROLS. ALL INTERLOCKING OF EXHAUST FAN AND MAKE UP AIR UNIT TO BE PERFORMED BY MECHANICAL CONTRACTOR. PROVIDE DRY CONTACT FROM FIRE ALARM PANEL TO SHUT DOWN HOOD EXHAUST FAN (KEF-1). MAKE-UP AIR UNIT (MUA-1) AND CCT/SWK-22, 24 & 34 UPON FIRE ALARM ACTIVATION. CONNECT TO DEDICATED FIRE ALARM ZONE IN FIRE ALARM PANEL TO MONITOR SUPPRESSION SYSTEM. REFER TO CAPTIVE AIR SHOP DRAWINGS FOR ELECTRICAL AND FIRE ALARM REQUIREMENTS AND RESPONSIBILITIES. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- PROPOSED LOCATION OF HOOD START / STOP CONTROL AND EMERGENCY FIRE SUPPRESSION SYSTEM ITS STATION. PROVIDE NECESSARY CONDUITS FROM CEILING SPACE TO CONTROL AND PULL STATION LOCATIONS FOR LOW VOLTAGE WIRING BY OTHERS. REFER TO CAPTIVE AIR SHOP DRAWINGS FOR EXACT REQUIREMENTS AND RESPONSIBILITIES. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- EXISTING 2 x POWER FEEDERS SERVING DISHWASHER TO BE DISCONNECTED, RELOCATED AND REWORKED TO NEW LOCATIONS AS INDICATED ON LAYOUT. VERIFY ON SITE EXACT REQUIREMENTS.
- PROVIDE NEW POWER TO STEAM KETTLE (9.8KW - 208V/3PH) FED FROM EXISTING DISCONNECT SWITCH IN THE UTILITY ROOM C/W NEW 40A FUSES. REFER TO NOTE #20 BELOW. CONFIRM ALL POWER REQUIREMENTS WITH KITCHEN SUPPLIER PRIOR TO ANY WORK. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
- PROVIDE ALL NECESSARY POWER CONNECTIONS FOR WALK IN COOLER AND WALK IN FREEZER AS REQUIRED BY THE MANUFACTURER. CONFIRM ALL POWER REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.
- EXISTING 200A/3P DISCONNECT PREVIOUSLY USED FOR 'ELECTRIC DUCT HEATER' TO BE REPLACED WITH NEW 200A/3P DISCONNECT SWITCH TO SERVE NEW PANEL K. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
- EXISTING 60A/3P DISCONNECT PREVIOUSLY USED FOR 'STOVE' TO BE REUSED FOR NEW STEAM KETTLE. EXISTING POWER FEEDER FROM DISCONNECT SWITCH TO BE DISCONNECTED AND REMOVED. PROVIDE NEW 40A FUSES FOR STEAM KETTLE.
- PROVIDE POWER TO NEW ROOF TOP MOUNTED HEAT PUMP OUTDOOR UNIT HP-1 (50A - 208V/1PH). COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE POWER TO NEW ROOF TOP MOUNTED HEAT PUMP OUTDOOR UNIT HP-2 (20A - 208V/1PH). COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE POWER TO NEW HEAT PUMP INDOOR UNIT HP-1 FED FROM RESPECTIVE OUTDOOR UNIT. COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE POWER TO NEW HEAT PUMP INDOOR UNITS HP-2 FED FROM RESPECTIVE OUTDOOR UNIT. COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE ONE DATA CABLE FOR EACH WIRELESS ACCESS POINT. (WAP PROVIDED BY OWNER). PROVIDE 3M SLACK COILED UP IN CEILING SPACE. COORDINATE EXACT LOCATION WITH CLIENTS IT REP.
- PROVIDE NEW UNDERCOUNTER LIGHTING UNDER BAR TOP TO BE OPERATED VIA NEW DIMMER SWITCH. PROVIDE REMOTE DRIVER ABOVE NEW CEILING IN BAR 102. PROVIDE LOW VOLTAGE WIRING FROM THE DRIVER TO THE ROPE LIGHTING LOCATION. ALL EXPOSED WIRING TO BE IN WIREMOLD. COORDINATE ALL REQUIREMENTS WITH GC PRIOR TO ANY WORK.
- PROVIDE POWER TO NEW SODA POP DISPENSER. CONFIRM EXACT POWER REQUIREMENTS WITH KITCHEN APPLIANCE SUPPLIER PRIOR TO ANY WORK.

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NEW PANEL K

RATING: 200A-120V/208V/3PH/4W

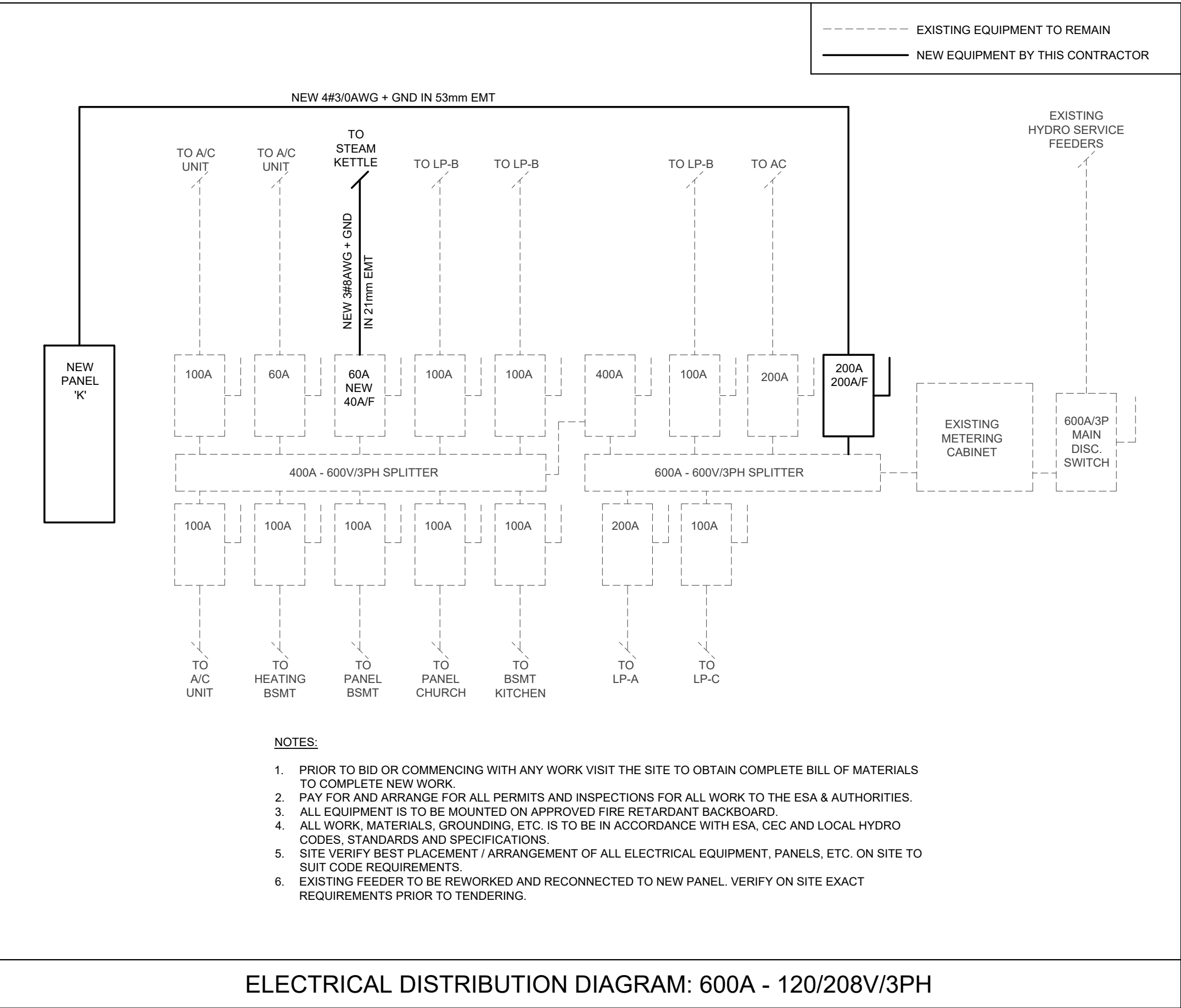
CIRCUIT DESIGNATION	BKR	LOAD			NO.		NO.	LOAD			BKR	CIRCUIT DESIGNATION
		A	B	C				A	B	C		
UNIVERSAL W/C, ADO'S	1/15	600			1		2	100			1/15	EXIT SIGNS
HAND DRYER	1/15		1000		3		4		500		1/20	SODA POP DISPENSER
WC GFI REC.	1/15			300	5		6			500	1/15	#18 FRIDGES / #19 WINE
WALK-IN FREEZER COMPRESSOR	2/15	---	---		7		8	1350			1/15	#14 U/C ICE MAKER
W-I-F EVAPORATOR	1/15			---	9		10		900		1/15	#18 FRIDGES / #19 WINE
WALK-IN COOLER COMPRESSOR	2/15	---		---	11		12			300	1/15	BAR REC.
W-I-C EVAPORATOR	1/15		---		13		14	500			1/20	KITCHEN REC.
W-I-C,F DOOR/LIGHT	1/15	---		---	15		16		500		1/15	#11 SLIDING DOOR FRIDGE
KEF-1	3/30		1896		17		18			500	1/20	KITCHEN REC.
				1896	21		20	500			1/20	KITCHEN REC.
					23		22		900		1/15	#4 CONVECTION OVEN *
MUA-1	3/20		1140		24		24			800	1/15	#7 COMBI OVEN *
					25		26	100			1/20	ROOFTOP CONV. REC.
				1140	27		28		150		1/15	HEAT TRACING
HP-1	2/50			2700	29		30			500	1/15	KH-1 & KH-2
					31		32	500			1/15	GEF-1 & GEF-2
					33		34		900		1/15	#4 CONVECTION OVEN *
HP-2	2/20		1900		35		36					
					37		38	---			1/15	SPARE
SPARE	1/15			---	39		40		---		1/15	SPARE
SPARE	1/15	---		---	41		42			---	1/15	SPARE
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SPACE	--			---	57		58		---		--	SPACE
SPACE	--			---	59		60			---	--	SPACE

* DENOTES SHUNT TRIP BREAKER
-- DENOTES GFCI BREAKER
CONTRACTOR TO PERFORM LOAD TEST AND ENSURE PANEL'S ARE PROPERLY BALANCED. ELECTRICAL CONTRACTOR SHALL BALANCE PANEL SCHEDULE'S AND ELECTRICAL EQUIPMENT TO 10% (+) BETWEEN PHASES: A/B, B/C, A/C REGARDLESS OF CIRCUITING INDICATED.

EQUIPMENT LIST

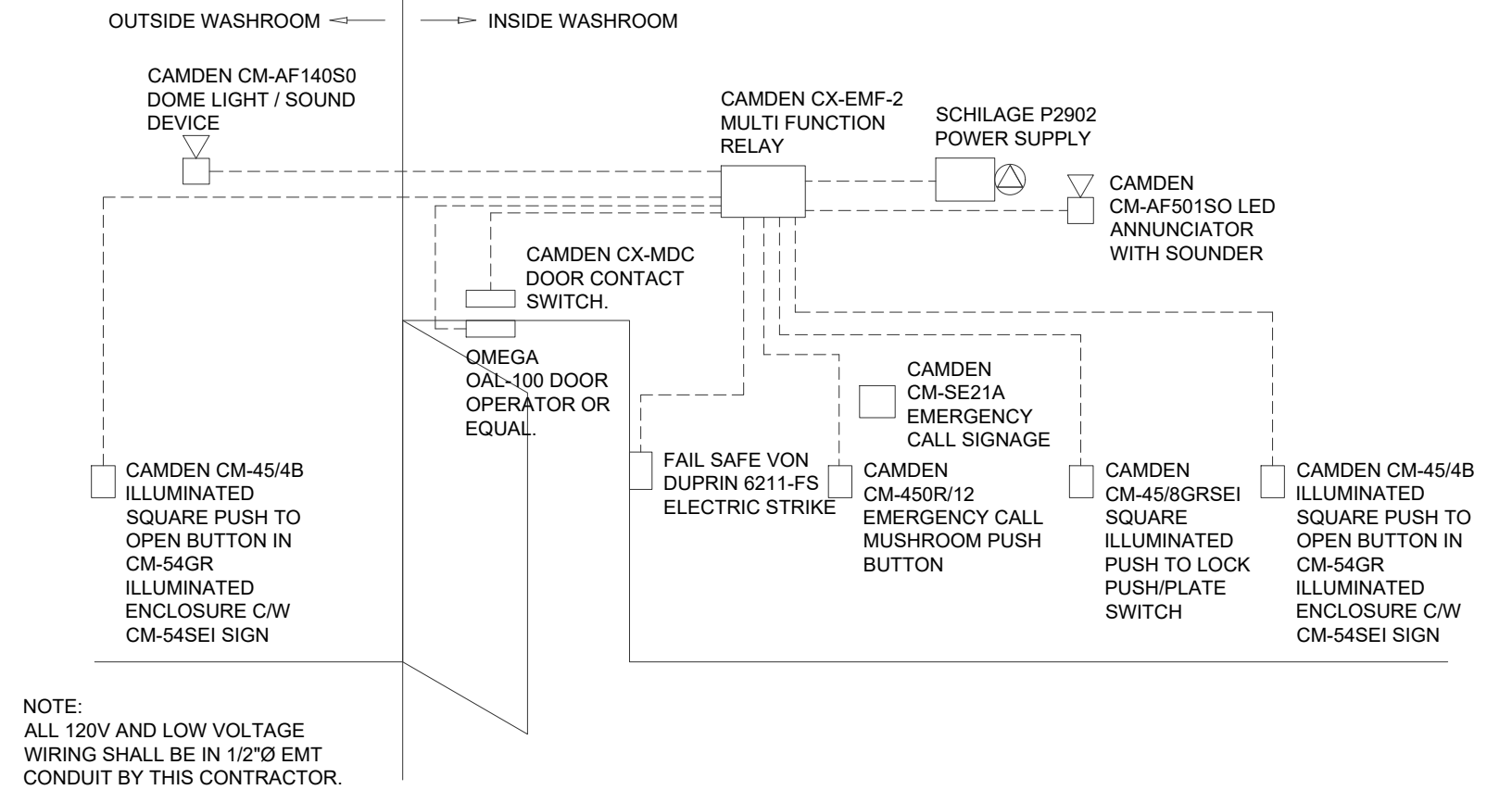
1	GAS FLOOR FRYER
2	10 BURNER RANGE
3	STOCK POT RANGE - SINGLE
4	CONVECTION OVEN
5	TILTING KETTLE (ELECTRIC)
6	DOUBLE WARMER (TBC)
7	COMBI OVEN (GAS)
8	PREP SINK
9	DOOR TYPE DISHWASHER
10	EXISTING MIXER
11	SLIDING DOOR REFRIGERATOR
12	WALKIN FRIDGE / FREEZER COMBO UNIT
13	UNDERBAR HAND SINK UNIT
14	UNDERBAR ICE MAKER
15	COCKTAIL UNIT W/ DUMP SINK
16	COCKTAIL UNIT
17	UNDERBAR GLASS RACK UNIT
18	BACK BAR REFRIGERATOR
19	WINE FRIDGE
20	ICE MAKER
21	GREASE INTERCEPTOR
22	BEVERAGE RACK (BAG IN BOX)

NOTE: THE NUMBERS DO NOT CORRELATE TO ACE DESIGN DRAWING



UNIVERSAL WASHROOM DOOR OPERATOR / EMERGENCY CALL SYSTEM DETAIL (TO BE EQUAL TO:)

- PRIOR TO ANY WORK, ROUGH IN OR ORDERING ANY MATERIALS COORDINATE ALL DOOR HARDWARE WITH THE G.C., ARCHITECT & OWNER.
THE WASHROOM DOOR IS NORMALLY CLOSED AND UNLOCKED. THE EXTERIOR PUSH TO OPEN ILLUMINATED PUSH PLATE SWITCH OUTER RING IS GREEN INDICATING THE WASHROOM IS VACANT. PRESSING THE PUSH TO OPEN SWITCH WILL OPEN THE DOOR. ONCE THE DOOR IS CLOSED PRESSING THE PUSH TO LOCK ILLUMINATED PLUS PLATE SWITCH WILL LOCK THE DOOR. THIS DISABLES THE EXTERIOR PUSH BUTTON. OUTSIDE LEVER IS ALWAYS IN THE LOCKED POSITION. THE PUSH TO LOCK OUTER RING WILL GLOW RED INDICATING THE DOOR IS LOCKED. ALSO, THE EXTERIOR ILLUMINATED PUSH PLATE RING GLOW RED INDICATING THE DOOR IS OCCUPIED. TO EXIT PUSHING THE LEVER DOWN OR PRESSING INTERIOR PUSH PLATE SWITCH WILL OPEN THE DOOR AUTOMATICALLY AND RESET THE SYSTEM. THE ILLUMINATED PUSH PLATE SWITCHES WILL GLOW GREEN INDICATING THE WASHROOM IS VACANT. IF THE DOOR IS OPENED MANUALLY TO EXIT THE WASHROOM THE OVERHEAD MAGNETIC CONTACT SWITCH WILL RESET THE SYSTEM.
- OPERATION OF AUTOMATIC DOOR CONTROL SYSTEM:
WHILE THE WASHROOM IS OCCUPIED, PRESSING THE PRESS FOR EMERGENCY ASSISTANCE WASHROOM PUSH BUTTON WILL DE-ENERGITE THE ELECTRICAL STRIKE AND UNLOCK THE DOOR. IN ADDITION, THIS ENERGIZES THE LED ANNUNCIATOR WITH ASSISTANCE REQUESTED MESSAGE TEXT AND SOUNDER WITH THE WASHROOM. AS WELL AS THE DOME LIGHT WITH ASSISTANCE REQUIRED MESSAGE TEXT AND PIEZO SOUNDER OUTSIDE THE WASHROOM. BOTH ANNUNCIATORS WILL BE ENERGIZED UNTIL THE LATCH OF PRESS FOR EMERGENCY ASSISTANCE WASHROOM PUSH BUTTON IS PULLED OUT. PROVIDE A SIGN INDICATING IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE ABOVE THE WASHROOM ACTIVATION SWITCH.
- OPERATION OF EMERGENCY CALL SYSTEM:
WHILE THE WASHROOM IS OCCUPIED, PRESSING THE PRESS FOR EMERGENCY ASSISTANCE WASHROOM PUSH BUTTON WILL DE-ENERGITE THE ELECTRICAL STRIKE AND UNLOCK THE DOOR. IN ADDITION, THIS ENERGIZES THE LED ANNUNCIATOR WITH ASSISTANCE REQUESTED MESSAGE TEXT AND SOUNDER WITH THE WASHROOM. AS WELL AS THE DOME LIGHT WITH ASSISTANCE REQUIRED MESSAGE TEXT AND PIEZO SOUNDER OUTSIDE THE WASHROOM. BOTH ANNUNCIATORS WILL BE ENERGIZED UNTIL THE LATCH OF PRESS FOR EMERGENCY ASSISTANCE WASHROOM PUSH BUTTON IS PULLED OUT. PROVIDE A SIGN INDICATING IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE ABOVE THE WASHROOM ACTIVATION SWITCH.
- WHEN THE EMERGENCY PUSH BUTTON IS ACTIVATED IT WILL ACTIVATE THE AUDIO VISUAL DEVICES AND CUT POWER TO THE ELECTRIC DOOR STRIKE SO THE DOOR IS UNLOCKED UPON ACTIVATION.



SEAL

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PROJECT:

HOLY TRINITY CROATIAN
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WASHROOM AND KITCHEN
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2110 TRAFALGAR RD, OAKVILLE
ON L6H 7S2

DRAWING TITLE:

ELECTRICAL
DETAILS

GRGURIC
ARCHITECTS
INCORPORATED



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Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 25011
DATE: MAY 2025	

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ELECTRICAL SPECIFICATIONS

1. CODES AND STANDARDS

- 1.1. DESIGN AND PERFORMANCE OF COMPONENTS AND METHODS SPECIFIED HEREIN SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS OF THE ENTITIES LISTED BELOW.
- 1.1.1. OBC ONTARIO BUILDING CODE
- 1.1.2. OESC ONTARIO ELECTRICAL SAFETY CODE
- 1.1.3. CSA CANADIAN STANDARDS ASSOCIATION
- 1.1.4. ULC UNDERWRITERS' LABORATORIES OF CANADA
- 1.1.5. NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- 1.1.6. OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND ALL AGENCIES HAVING JURISDICTION.
- 1.2. COMPLY WITH ELECTRICAL AND BUILDING CODE BULLETINS IN FORCE AT TIME OF BID SUBMISSION.
- 1.3. ALL ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH BASE BUILDING STANDARDS AND OWNER REQUIREMENTS.

2. SCOPE OF WORK

1. THE SCOPE OF WORK SHALL CONSIST OF THE FOLLOWING:
- 2.1.1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR COMPLETE INSTALLATION OF ALL WORK INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN.
- 2.1.2. SUPPLYING, INSTALLING AND CONNECTING ALL PANELBOARDS, FEEDERS, POWER OUTLETS, LIGHT FIXTURES, SWITCHES, CONTROLS, CONDUITS, AND WIRING.
- 2.1.3. SUPPLYING AND INSTALLING NEW COMMUNICATION OUTLETS AND RACEWAY.
- 2.1.4. SUPPLYING AND INSTALLING NEW CIRCUIT BREAKERS.
- 2.1.5. OTHER WORK SHOWN ON DRAWING AND INDICATED IN SPECIFICATIONS.
- 2.1.6. ELECTRICAL CONNECTIONS TO EQUIPMENT, MOTORS, ETC FURNISHED BY THE OWNER AND/OR OTHER TRADES.
- 2.1.7. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK. CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY WIRES, CONDUIT AND JUNCTION BOXES REQUIRED TO MAINTAIN CONTINUITY.
- 2.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS AND SHALL PAY ALL ASSOCIATED COSTS AND FEES. BUILDING PERMITS TO BE SUBMITTED AND PAID FOR BY OWNER.
- 2.3. SUBMIT TO THE LOCAL ELECTRICAL INSPECTION DEPARTMENT, THE NECESSARY NUMBER OF DOCUMENTS FOR EXAMINATION, SPECIAL INSPECTION AND APPROVAL, PRIOR TO THE COMMENCEMENT OF THE WORK, AND PAY ALL COSTS AND ASSOCIATED FEES.
- 2.4. PROVIDE CERTIFICATE(S) OF ACCEPTANCE FOR THE AUTHORITIES INSPECTION DEPARTMENT, UPON COMPLETION OF WORK.
- 2.5. VERIFY EXISTING CONDITIONS IN FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
- 2.6. PROVIDE AND MAINTAIN INSURANCE TO PROTECT THE OWNERS AND TRADES FROM ALL POSSIBLE CLAIMS. SUBMIT WITH BID FOR AN AMOUNT ACCEPTABLE TO THE OWNER AND GENERAL CONTRACTOR.
- 2.7. PROVIDE TEMPORARY LIGHT AND POWER SYSTEM (AS PART OF THE CONTRACT) ADEQUATE FOR THE REQUIREMENTS OF ALL TRADES DURING CONSTRUCTION. THE TEMPORARY SYSTEM SHALL BE DISCONNECTED AND REMOVED WHEN PERMANENT SERVICE IS IN OPERATION.

3. NOTICE TO BIDDERS

- 3.1. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOUR PROVISIONS.
- 3.2. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR ON THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- 3.3. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOUR OR MATERIALS SPECIFICALLY INDICATED OR REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.
- 3.4. THE CONTRACTOR SHALL COORDINATE THE WORK SUCH THAT CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR.
- 3.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO THE OWNER.
- 3.6. ALL WORK IN OCCUPIED AREAS SHALL BE COORDINATED WITH THE OWNER.
- 3.7. THE CONTRACTOR SHALL PRICE THE WORK BASED ON ANY NECESSARY MODIFICATIONS OF THE EXISTING SYSTEMS. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY OVERTIME WORK.
- 3.8. THE CONTRACTOR WILL BE HELD TO HAVE VISITED THE SITE AND EXAMINED THE DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND OF GENERAL CONSTRUCTION TRADES TO SATISFY ALL THE CONDITIONS INVOLVED. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS GIVEN ON THE DRAWINGS AND THOROUGHLY BE ACQUAINTED WITH ALL EXISTING CONDITIONS AFFECTING THE PROPER INSTALLATION OF THE WORK. A SCHEDULED SITE VISIT DATE SHALL BE SCHEDULED DURING THE TENDER PERIOD. REFER TO ARCHITECTURAL INSTRUCTIONS.

4. SUBMITTALS AND COORDINATION

- 4.1. CONTRACTOR TO PROVIDE SHOP DRAWING SCHEDULE TO ARCHITECT AND ENGINEER AT AWARD OF CONTRACT.
- 4.2. SUBMIT THE FOLLOWING INFORMATION AS APPLICABLE AND AS REQUIRED FOR ALL WORK SPECIFIED UNDER THIS DIVISION:
- 4.2.1. MANUFACTURERS PRODUCT DATA SHEETS AND SAMPLES WHERE REQUIRED.
- 4.2.2. SUBMIT PDF COPIES OF SHOP DRAWINGS OF ALL SPECIFIED EQUIPMENT INCLUDING DIMENSIONED EQUIPMENT LAYOUTS FOR REVIEW AND RECORDS PRIOR TO COMMENCEMENT OF WORK. EACH SHOP DRAWING SHALL BE CHECKED AND STAMPED BY THE ELECTRICAL AND GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW.
- 4.2.3. POINT-TO-POINT WIRING DIAGRAMS AND SEQUENCES OF OPERATION.
- 4.2.4. REPRODUCIBLE DRAWINGS, PDF, OR AUTOCAD FILES.
- 4.2.5. OPERATION AND MAINTENANCE MANUALS.
- 4.2.6. CERTIFIED FACTORY AND FIELD TEST REPORTS.
- 4.2.7. MANUFACTURERS' CERTIFICATIONS, WARRANTIES AND SPARE PARTS.
- 4.3. SUBSTITUTIONS TO SPECIFIED ITEMS MUST COMPLY WITH ALL SPECIFICATION REQUIREMENTS AND WILL ONLY BE PERMITTED WHERE SUBMITTED AND APPROVED IN WRITING.
- 4.4. PROJECT CLOSEOUT
- 4.4.1. AFTER COMPLETION OF PROJECT AND PRIOR TO REQUESTING FINAL PAYMENT, THE CONTRACTOR SHALL GIVEN WRITTEN NOTICE THAT THE FOLLOWING ITEMS HAVE BEEN COMPLETED:
- 4.4.1.1. REQUIRED AGENCY APPROVALS.
- 4.4.2. COPY OF FINAL HYDRO INSPECTION CERTIFICATE. FIRE ALARM VERIFICATION CERTIFICATE (AS PER STANDARD ULC 537) MUST BE PROVIDED WHEN THE FIRE ALARM SYSTEM WAS MODIFIED UNDER THE CONTRACT.
- 4.4.3. FINAL CLEANING AND ADJUSTMENT OF LIGHTING FIXTURES AND EQUIPMENT.
- 4.4.4. RESOLUTION OF OUTSTANDING SUBMITTALS AND PUNCH LIST ITEMS.
- 4.4.5. AS-BUILT DRAWINGS.
- 4.4.6. TURNOVER OF SPARE LAMPS, KEYS, AND ANY REQUIRED SPARE PARTS OR TOOLS.
- 4.4.7. SYSTEM STARTUP, TESTING AND ADJUSTMENT.
- 4.4.8. MANUFACTURERS' CERTIFICATIONS, WARRANTIES AND O&M MANUALS.
- 4.4.9. DEMONSTRATIONS AND OWNER INSTRUCTION.

5. AS-BUILT DRAWINGS AND MAINTENANCE MANUALS

- 5.1. THE CONTRACTOR SHALL KEEP RECORD OF ALL CHANGES, FIELD CONDITIONS, AND SHALL PREPARE AND PROVIDE AS-BUILT DRAWINGS INDICATING ANY DEVIATION FROM THE ORIGINAL ELECTRICAL DESIGN. THE REVISED DRAWING SHALL BE STAMPED "AS-BUILT" WITH THE DATE AND CONTRACTOR'S SIGNATURE. ONE (1) SET OF PDF PRINTS SHALL BE SENT TO THE ENGINEER BEFORE THE FINAL PAYMENT IS MADE. AFTER THE REVIEW AND APPROVAL OF AS-BUILT CONTRACTOR SHALL DELIVER A USB STICK DISK TO THE OWNER.
- 5.2. PROVIDE THE ARCHITECT THREE (3) BOUND AND INDEXED COPIES OF OPERATIONS AND MAINTENANCE DATA MANUALS FOR THE INSTALLATION. THE MANUAL SHALL PROVIDE COMPREHENSIVE DETAILED INFORMATION ON THE APPROVED INSTALLATION, OPERATION AND USE, MAINTENANCE AND PARTS LIST. INCLUDE THE FOLLOWING INFORMATION:
- 5.2.1. NAMES AND ADDRESS OF LOCAL SUPPLIERS FOR THE ITEMS INCLUDED TECHNICAL DATA, PRODUCT DATA, SUPPLEMENTED BY BULLETINS, COMPONENT ILLUSTRATIONS, EXPLODED VIEW, TECHNICAL DESCRIPTIONS OF ITEMS AND PARTS LISTS. ADVERTISING OR SALES LITERATURE IS NOT ACCEPTABLE.
- 5.2.2. THE CONSULTANT REVIEWED SHOP DRAWINGS
- 5.2.3. CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITY'S INSPECTION DEPARTMENT.
- 5.2.4. VERIFICATION REPORTS AND CERTIFICATE(S) FOR ANY NEW FIRE ALARM COMPONENTS OR TIE-INS AND ANY BASE BUILDING TIE-INS FOR MISCELLANEOUS SYSTEMS (I.E. SECURITY, LIGHTING, CONTROL, DIGITAL METERING).
- 5.2.5. LOAD BALANCE REPORT WRITTEN GUARANTEE
- 5.3. REVIEW INFORMATION PROVIDED IN THE MAINTENANCE INSTRUCTIONS AND MANUALS WITH THE OWNER'S OPERATING PERSONNEL AND LANDLORD'S OPERATING PERSONNEL WHERE BASE BUILDING SYSTEMS ARE REVISED TO ENSURE A COMPLETE UNDERSTANDING OF THE ELECTRICAL EQUIPMENT AND SYSTEMS AND THEIR OPERATION.

6. QUALITY ASSURANCE

- 6.1. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE CODES AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AND THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- 6.2. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE APPLICABLE REFERENCE STANDARDS AS PER SPECIFICATION SECTION 1.
- 6.3. THE CONTRACTOR SHALL HAVE COMPLETED AT LEAST TWO PROJECTS OF SIZE AND COMPLEXITY SIMILAR TO THOSE REQUIRED UNDER THIS CONTRACT. ALL WORKMEN SHALL BE SKILLED IN THEIR RESPECTIVE TRADE.
- 6.4. ALL WORK SHALL BE WARRANTED IN WRITING TO BE FREE FROM DEFECTS IN MATERIALS AND/OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. WARRANTY SHALL INCLUDE ALL COSTS OF PARTS, LABOR, TRAVEL AND LIVING EXPENSES REQUIRED TO REPAIR OR REPLACE DEFECTIVE ITEMS.

6.5. INSPECTION:

- 6.5.1. ALL STAGES OF THE INSTALLATION WILL BE INSPECTED BY THE OWNER AND/OR OWNERS REPRESENTATIVE FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. ANY PORTION OF THE CONSTRUCTION NOT MEETING THOSE REQUIREMENTS TO THE SATISFACTION OF THE ENGINEER SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 6.5.2. PROVIDE PROPER EQUIPMENT AND REASONABLE ASSISTANCE AS THE OWNER AND/OR OWNERS REPRESENTATIVE MAY REQUIRE TO FACILITATE ACCESS AND INSPECTION AT THE CONSTRUCTION SITE.
7. REMOVALS
- 7.1. NOTES AND GRAPHIC REPRESENTATIONS ON THE DRAWINGS SHALL NOT LIMIT THE EXTENT OF REMOVALS REQUIRED. THE CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE THE EXISTING CONDITIONS AND SHALL PERFORM ALL WORK REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. THE EXTENT OF ALL REMOVAL WORK SHALL BE COORDINATED WITH THE ARCHITECT.
- 7.2. WHERE PORTIONS OF AN EXISTING BRANCH CIRCUIT ARE REMOVED, WIRING TO REMAIN DEVICES ON THE CIRCUIT SHALL BE RECONNECTED OR MODIFIED IN AN APPROVED MANNER AS REQUIRED TO MAINTAIN CONTINUITY OF THE AFFECTED BRANCH CIRCUIT AND OPERATION OF THE REMAINING DEVICES.
- 7.3. ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATION SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
- 7.4. THE REMOVAL OF ALL TELEPHONE AND DATA DEVICES AND ASSOCIATED CABLE SHALL BE COORDINATED WITH THE APPROPRIATE PERSONNEL.
- 7.5. IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN, INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL, DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

8. VALUATION OF CHANGES

- 8.1. PROVIDE A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC. WHEN SUBMITTING QUOTATIONS FOR CHANGE NOTICES ON THIS PROJECT.
- 8.2. THE HOURLY LABOUR RATE SHALL BE INCLUSIVE OF ALL CHARGES FOR SUPERVISION, VARIABLE LABOUR FACTORS, HAND TOOLS, PAYROLL BURDENS, HEIGHT FACTORS, WARRANTIES, STORAGE, RENTALS, ADDITIONAL BONDING, PARKING, CLEAN-UP, AS-BUILT DRAWINGS, HOISTING, FREIGHT AND DELIVERY, BUT EXCLUSIVE OF OVERHEAD AND PROFIT.

9. BASIC MATERIAL AND METHODS

- 9.1. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION. ASSIST IN THE PREPARATION OF SHUTDOWN DRAWINGS AS REQUIRED BY THE GENERAL CONDITIONS.
- 9.2. ALL SHUTDOWNS OF BUILDING POWER, FIRE ALARM AND SIGNAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER. WORK TO ACCOMMODATE OFF-HOUR SHUTDOWNS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 9.3. CUT AND PATCH NON-STRUCTURAL SURFACES AS REQUIRED. REPAIRS SHALL MATCH ORIGINAL FINISH; PENETRATIONS OF FIRE RATED PARTITIONS SHALL BE SEALED WITH APPROVED MATERIAL TO PROVIDE THE SAME RATING AS THE PARTITION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.
- 9.4. PROVIDE EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS.
- 9.5. EQUIPMENT, DEVICES AND ENCLOSURES SHALL BE RATED NEMA 1 FOR INTERIOR LOCATIONS, NEMA 3R FOR DAMP LOCATIONS AND NEMA 4 FOR WET LOCATIONS.

10. DELIVERY, STORAGE AND HANDLING

- 10.1. ALL EQUIPMENT SHALL BE DELIVERED IN MANUFACTURER'S ORIGINAL PROTECTIVE PACKAGING AND STORED IN A CLEAN, DRY PLACE PROTECTED FROM WEATHER, FUMES, WATER, DUST AND PHYSICAL DAMAGE. TOUCH UP DAMAGED FINISHES TO MATCH THE ORIGINAL FINISH.

11. RACEWAYS

- 11.1. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL CONFORM TO CSA C22.2 NO 45. FITTINGS SHALL BE THREADED.
- 11.2. ELECTRICAL METALLIC TUBING (EMT) SHALL CONFORM TO CSA C22.2 NO 83. FITTINGS SHALL BE STEEL GLAND AND RING COMPRESSION TYPE.
- 11.3. FLEXIBLE METALLIC CONDUIT SHALL CONFORM TO CSA C22.2 NO 56. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL CONFORM TO CSA C22.2 NO 56. FITTINGS SHALL BE STEEL.
- 11.4. PVC TELECOMMUNICATION AND TV CABLE DUCTS SHALL BE MANUFACTURED TO CSA B196.3.
- 11.5. ALL CONDUIT FITTINGS AND CONNECTORS SHALL BE STEEL WITH INSULATED THROATS TO CAN/CSA C22.2 NO 18. DIE-FORMED ZINC FITTINGS ARE NOT ACCEPTABLE. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT TERMINATIONS. BUSHINGS LARGER THAN 1" (27mm) SHALL BE GROUNDING TYPE. PVC BUSHINGS MAY BE UTILIZED ONLY FOR 3/4" (21mm) BRANCH CIRCUIT CONDUITS TERMINATING AT PANELBOARDS.
- 11.6. MINIMUM RACEWAY SIZE SHALL BE 3/4" (21mm). RACEWAYS SHALL BE RUN PARALLEL TO BUILDING STRUCTURAL LINES. RACEWAYS SHALL NOT BE RUN HORIZONTALLY BELOW 6'-0" AFF IN PARTITIONS. ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH A 200LB TEST NYLON DRAG LINE.
- 11.7. ALL WIRING BETWEEN JUNCTION BOXES AND FOR CIRCUIT HOMERUNS BETWEEN FIRST OUTLET SERVED BY THE BRANCH CIRCUIT AND THE PANELBOARD SHALL BE RUN IN EMT OR RGS AS REQUIRED.
- 11.8. RACEWAY UTILIZATION SHALL BE AS FOLLOWS:
- 11.8.1. RIGID GALVANIZED STEEL (RGS) - IN CONCRETE SLABS, EXPOSED IN ALL MECHANICAL EQUIPMENT ROOMS; FIRE ALARM SYSTEMS.
- 11.8.2. ELECTRICAL METALLIC TUBING (EMT) - INTERIOR CONCEALED AND EXPOSED LOCATIONS; EXPOSED IN MECHANICAL ROOMS ABOVE 8'-0" AFF; INTERIOR COMMUNICATIONS WIRING.
- 11.8.3. FLEXIBLE METALLIC CONDUIT - FINAL CONNECTIONS TO TRANSFORMERS (MAXIMUM LENGTH 3'-0") AND FINAL CONNECTIONS ONLY FROM JUNCTION BOXES ABOVE CEILINGS TO RECEPTACLES AND LIGHT FIXTURES (MAXIMUM LENGTH 10'-0" (3.048M), NOT TO BE USED FOR HOMERUNS OR FEEDERS TO MECHANICAL EQUIPMENT. INSTALL CONDUIT TO CSA C22.1.
- 11.8.4. LIQUID TIGHT FLEXIBLE CONDUIT - FINAL CONNECTIONS TO MOTORS AND MECHANICAL EQUIPMENT.
- 11.9. INSTALL CONDUIT TO CSA C22.1.
- 11.10. ALL CONDUIT AND TUBING SHALL BE CUT SQUARE AND REAMED AT THE ENDS.
- 11.11. CONDUIT AND TUBING RUNS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SERVICE STARTING TO ALL OUTLETS AND EQUIPMENT. CONDUIT SHALL ENTER AND BE SECURELY CONNECTED TO A CABINET, JUNCTION BOX, PULLBOX OR OUTLET BOX BY MEANS OF LOCKNUTS ON THE OUTSIDE AND INSIDE AND AN INSULATED BUSHING ON THE INSIDE. IN TUBING OR FLEXIBLE METAL CONDUIT THE ONE COMPRESSION LOCKNUT SHALL BE MADE WRENCH-TIGHT. ALL LOCKNUTS SHALL BE THE BONDING TYPE WITH SHARP EDGES FOR DIGGING INTO THE METAL WALL OF AN ENCLOSURE AND SHALL BE INSTALLED IN A MANNER THAT WILL ASSURE A LOCKING AND ELECTRICALLY CONTINUOUS INSTALLATION. LOCKNUTS AND BUSHINGS ARE NOT REQUIRED WHERE CONDUITS ARE SCREWED INTO TAPPED CONNECTIONS. FOR ECCENTRIC AND CONCENTRIC KNOCKOUTS, PROVIDE GROUND RINGS.
- 11.12. ALL VERTICAL RUNS OF CONDUIT OR TUBING TERMINATING IN THE BOTTOMS OF WALL BOXES OR CABINETS, OR SIMILAR LOCATIONS, SHALL BE PROTECTED FROM THE ENTRANCE OF FOREIGN MATERIAL PRIOR TO THE INSTALLATION OF CONDUCTORS.
- 11.13. UNLESS OTHERWISE SPECIFIED, ALL CONDUIT AND TUBING SHALL BE INSTALLED CONCEALED. IN GENERAL, ALL CONDUIT AND TUBING SHALL BE RUN IN HUNG CEILINGS AND FURRED SPACES WHERE THEY EXIST. WHERE CONDUIT IS RUN EXPOSED IT SHALL BE SECURELY SUPPORTED WITH ZINC COATED MALLEABLE IRON PIPE STRAPS OR OTHER APPROVED MEANS. ALL CONDUITS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS.
- 11.14. EVERY CONDUIT SYSTEM SHALL BE INSTALLED COMPLETE BEFORE ANY CONDUCTORS ARE DRAWN IN. WIRE PULLING LUBRICANTS, WHEN UTILIZED, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES, INC., APPLICABLE TO THE SPECIFIC CONDUCTOR OR CABLE INSULATION AND RACEWAY MATERIAL.
- 11.15. SIZE ALL CONDUITS FOR A MAX. 40% FILL. TO INCLUDE DEDICATED INSULATED GROUND WIRE.
- 11.16. RUN CONDUITS IN WEBBED PORTION OF STRUCTURAL STEEL.
- 11.17. WHERE REQUIRED BY THE ENGINEER, EXTRA DEEP OR EXTRA SHALLOW OUTLET BOXES SHALL BE USED TO FACILITATE THE INSTALLATION OF THE CONDUIT SYSTEM.

12. BOXES

- 12.1. OUTLET, PULL AND JUNCTION BOXES SHALL BE FABRICATED FROM WELDED STEEL AND CONFORM TO CSA-C22.2 NO. 18 AND NEMA 051. BOXES FOR INTERIOR LOCATIONS SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL. BOXES FOR MECHANICAL ROOMS SHALL BE CAST STEEL WITH GASKETED COVERS.
- 12.2. BOXES SHALL CONTAIN SUITABLE KNOCKOUTS. BARRIERS SHALL BE FURNISHED AS REQUIRED BY CODE AND TO SEPARATE SWITCHES FOR 347 VOLT CIRCUITS ON DIFFERENT PHASES.
- 12.3. BOXES SHALL BE SIZED AS REQUIRED BY CODE FOR THE NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. THE MINIMUM BOX SHALL BE 4" SQUARE BY 1-1/2" DEEP. COVERS GREATER THAN 50LB SHALL BE DIVIDED INTO MULTIPLE SECTIONS.
- 12.4. ALL RECEPTACLES SWITCHES AND DEVICES IN FIRE RATED WALLS TO BE COMPLETE WITH FIRE RATED BOXES. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED BOXES.

13. FASTENERS

- 13.1. PROVIDE INSERTS, EXPANSION SHIELD LUGS, ANCHORS, BOLTS WITH NUTS AND WASHERS, SHIMS OR ANY OTHER TYPE OF FASTENING DEVICES REQUIRED TO FASTEN PANELS OR OTHER EQUIPMENT TO FLOORS, WALLS, OR CEILINGS, UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE CONTRACT DRAWINGS. ALL FASTENERS SHALL BE HOT-DIPPED GALVANIZED, OF SIZES AND TYPES RECOMMENDED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER.

14. WIRES, CABLES, SPLICES AND TERMINATIONS

- 14.1. POWER AND CONTROL WIRING SHALL BE COPPER, MINIMUM 98% CONDUCTIVITY, WITH TYPE RW90 INSULATION RATED 900 VOLTS. MINIMUM WIRE SIZE SHALL BE #12 AWG. CONDUCTORS SHALL BE SOLID FOR WIRE SIZED #10 AWG AND SMALLER AND STRANDED FOR WIRE SIZES #8 AWG AND LARGER.
- 14.2. ALL HOME RUNS TO BE IN EMT CONDUIT.
- 14.3. AC CABLE SHALL BE 90°C RATED CODE TYPE AC90. JACKET SHALL BE ALUMINIUM INTERLOCKING ARMOUR. AC CABLE #12 MAY BE USED IN CEILING SPACE FROM CEILING DISTRIBUTION BOX DOWN TO RECEPTACLES IN PARTITIONS. AC RUNS IN CEILING SPACE NOT TO EXCEED 3048MM (10'-0") IN LENGTH.

14.4. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208/120V	PHASE	600/347V
RED	A	ORANGE
BLACK	B	BROWN
BLUE	C	YELLOW
WHITE	NEUTRAL	GRAY OR WHITE WITH TRACER
GREEN	GROUND	GREEN

- 14.5. CONDUCTORS #4AWG AND SMALLER SHALL HAVE COLOR CODED INSULATION. CONDUCTORS #4AWG AND LARGER SHALL BE IDENTIFIED WITH COLOR INSULATION OR PHASING TAPE.
- 14.6. CONDUCTOR SIZES SHALL BE INCREASED WHERE REQUIRED BY CODE AND/OR THE ENGINEER TO COMPENSATE FOR 2% VOLTAGE DROP AND HIGH AMBIENT TEMPERATURE.
- 14.7. COMMUNICATIONS CABLEING RUN EXPOSED IN AIR HANDLING PLENUMS SHALL BE TYPE CMP PLENUM RATED.
- 14.8. SPLICES FOR WIRE SIZES #10 AWG AND SMALLER SHALL BE MADE WITH SPRING CONNECTORS AND TAPE. SPLICES FOR WIRE SIZES #8 AWG AND LARGER SHALL BE HYDRAULIC COMPRESSION TYPE WITH PRE-MOULDED COVER AND TAPE.

15. WIRING DEVICES

- 15.1. WIRING DEVICES SHALL BE SPECIFICATION-GRADE DECORA STYLE WITH NEMA CONFIGURATIONS AS INDICATED ON THE DRAWINGS. COLOR OF DEVICES SHALL BE WHITE. WIRING DEVICES SHALL BE MANUFACTURED BY EATON, HUBBELL, LEVITON, LEGRAND OR APPROVED EQUAL.
- 15.2. FACEPLATES SHALL BE NON-MAGNETIC WHITE FACEPLATES UNLESS SPECIFIED BY THE ARCHITECT. FACEPLATES SHALL BE FURNISHED FOR ALL COMMUNICATIONS OUTLETS AND SHALL BE CONFIGURED TO SUIT THE SYSTEM SUPPLIER'S REQUIREMENTS.
- 15.3. RECEPTACLES TO BE MOUNTED IN KITCHEN 10'1 SHALL BE WHITE WITH STAINLESS STEEL COVER/PLATE.
- 15.4. DEVICES MOUNTED ADJACENT TO EACH OTHER SHALL BE FURNISHED WITH A COMMON FACEPLATE AND BE GANGED IN ONE BOX.
- 15.5. ALL DEVICES SHALL BE MOUNTED AT LOCATIONS AND HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
- 15.6. ALTER LOCATION OF OUTLET'S/SWITCHES AT NO COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3M (10'-0") AND INFORMATION IS GIVEN BEFORE ROUGH-IN.
- 15.7. WHERE NEW, EXISTING OR NEW AND EXISTING SWITCHES ARE MOUNTED AT SAME LOCATION, MOUNT SWITCHES BEHIND COMMON FACEPLATE.
- 15.8. WHILE-IN-USE COVER FOR EXTERIOR RECEPTACLES TO BE HUBBELL CAT# ML500G.

16. BRANCH CIRCUIT PANELBOARDS

- 16.1. BRANCH CIRCUIT PANELBOARDS SHALL BE 600/347V AND/OR 208/120V, 3Ø, 4-WIRE CONFIGURATION WITH COPPER BUS BARS, NEUTRAL BUS AND SEPARATE GROUND BUS BONDED TO PANEL ENCLOSURE. PROVIDE 200% NEUTRAL AND ISOLATED GROUND BUS WHERE INDICATED ON DRAWINGS. CABLE LUGS SHALL BE MECHANICAL TYPE. PANELBOARDS SHALL BE MANUFACTURED BY SCHNEIDER ELECTRIC/SQUARE D, GENERAL ELECTRIC, SIEMENS, OR EATON.
- 16.2. CIRCUIT BREAKERS SHALL BE MOULDED CASE, BOLT-IN-PLACE WITH THERMAL-MAGNETIC TRIP ELEMENT. MINIMUM INTERRUPTING RATINGS SHALL BE 22,000 AIC FOR 208/120V AND 65,000 AIC FOR 600/347V UNLESS NOTED OTHERWISE ON DRAWINGS. CIRCUIT BREAKERS FOR UNSWITCHED LIGHTING CIRCUITS SHALL BE RATED FOR SWITCHING DUTY. MAIN CIRCUIT BREAKERS SHALL BE MOUNTED SEPARATELY FROM BRANCH BREAKERS AT TOP OR BOTTOM. MOULDED CASE CIRCUIT BREAKERS TO BE AS PER CSA C22.2 NO.5.
- 16.3. PANELBOARD ENCLOSURES SHALL BE GALVANIZED CODE GAUGE STEEL WITHOUT PRE-PUNCHED KNOCKOUTS. TRIMS SHALL BE SURFACE TYPE IN UNFINISHED SPACES AND FLUSH TYPE IN FINISHED SPACES, WITH ANSI 61 GRAY ENAMEL FINISH. DOORS SHALL BE DOOR-IN-DOOR TYPE CONSTRUCTION AND SHALL BE LOCKABLE AND ALL LOCKS SHALL BE KEYS ALIKE. FURNISH TWO KEYS FOR EACH PANEL.
- 16.4. PANELS SHALL HAVE A MINIMUM OF 4" GUTTER SPACE ON BOTH SIDES.
- 16.5. FURNISH AND INSTALL TYPEWRITTEN DIRECTORIES FOR EACH PANELBOARD, NEW AND EXISTING, INDICATING DEVICES SERVED.
- 16.6. PANELS NOT MOUNTED ON STRUCTURAL WALLS SHALL BE SUPPORTED FROM THE FLOOR INDEPENDENTLY OF WALL.
- 16.7. CONSTRUCTION BUT NOT LATERALLY SECURED TO WALL. FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH (3) 1" EMPTY CONDUITS TERMINATED ABOVE THE FINISHED CEILING.
- 16.8. PANELS MOUNTED ON MASONRY WALLS SHALL BE SHIMMED WITH WASHERS TO PROVIDE A 1/2" SPACE BETWEEN PANELBOARD AND WALL.

17. SAFETY SWITCHES

- 17.1. SAFETY DISCONNECT SWITCHES SHALL BE 250V OR 600V AS REQUIRED, HEAVY DUTY, HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK DESIGN IN NEMA 1 ENCLOSURE. ENCLOSURES EXPOSED TO WET OR RAIN CONDITIONS SHALL BE IN NEMA 3R ENCLOSURE.
- 17.2. PROVIDE INTERLOCKS TO PREVENT OPENING THE COVER WITH THE SWITCH IN THE "ON" POSITION OR CLOSING OF THE SWITCH WITH THE DOOR OPEN, EXCEPT THAT THE INTERLOCK SHALL BE TOOL RELEASABLE BY A QUALIFIED PERSON FOR INSPECTION OF THE CONTACTS OF MECHANISM.
- 17.3. PROVIDE FOR PADLOCKING HANDLE IN THE OFF POSITION.
- 17.4. PROVIDE NEUTRAL ASSEMBLY WHERE SCHEDULED.
- 17.5. SWITCHES SHALL BE CAPABLE OF WITHSTANDING THE AVAILABLE FAULT OR LET THROUGH CURRENT BEFORE THE FUSE OPERATES WITHOUT DAMAGE OR CHANGE IN RATING. THE SHORT CIRCUIT INTERRUPTING RATING OF THE FUSE SWITCH COMBINATION SHALL BE 100,000 RMS SYMMETRICAL AMPERES AND 12 TIMES THE CONTINUOUS CURRENT RATING WHEN UNFUSED AT RATED VOLTAGE.
- 17.6. FUSE CLIPS SHALL BE OF THE REJECTION TYPE. SHALL ACCOMMODATE DUAL ELEMENT, CURRENT LIMITING FUSES ONLY AND SHALL BE SIZED TO ACCEPT FUSES OF THE PROPER AMPERE RATING.
- 17.7. PROVIDE GROUND LUG IN EACH SWITCH.

18. FUSES

- 18.1. FUSES SHALL BE CSA LISTED, TIME DELAY, CURRENT LIMITING AND HAVE AN INTERRUPTING CAPACITY OF AT LEAST 200,000 AMPERES RMS SYMMETRICAL.
- 18.2. THE TIME-CURRENT CHARACTERISTICS AND RATINGS SHALL BE SUCH THAT POSITIVE SELECTIVE COORDINATION IS ASSURED.
- 18.3. FUSE VOLTAGE RATINGS SHALL BE 600V OR 250V AS REQUIRED.
- 18.4. CLASS RK1 (TIME DELAY) FUSES, REJECTION TYPE.
- 18.4.1. BUSSMANN TYPE LPN-RK (250V) OR TYPE LPS-RK (600V)
- 18.4.2. MERSEN A2D (250V) OR A6D (600V)
- 18.4.3. LITTELFUSE TYPE LLN-RK (250V) OR LLS-RK (600V)
- 18.5. CLASS L (TIME DELAY)
- 18.5.1. BUSSMANN TYPE KRP-C
- 18.5.2. LITTELFUSE TYPE KLP-C
- 18.5.3. MERSEN ABQ
- 18.6. CLASS CC (TIME DELAY) FUSES, REJECTION TYPE
- 18.6.1. BUSSMANN TYPE LP-CC
- 18.6.2. MERSEN ATR
- 18.6.3. LITTELFUSE TYPE KLD

19. LIGHTING FIXTURES AND EQUIPMENT

- 19.1. LIGHTING FIXTURES SHALL BE SPECIFICATION GRADE AND FURNISHED COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE. FIXTURES SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ESTABLISH THE PERFORMANCE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED THE PERFORMANCE OF THE SPECIFIED FIXTURE AND TO BE CSA APPROVED.
- 19.2. SUBMIT SCALED LAYOUT DRAWINGS FOR CONTINUOUS FIXTURES. SUBMIT SAMPLES WHEN REQUIRED BY THE LIGHTING FIXTURE SCHEDULE OR WHEN REQUESTED FOR SUBSTITUTIONS.
- 19.3. CONTRACTOR SHALL ENSURE COMPATIBILITY BETWEEN FIXTURE TRIMS AND CEILING SYSTEMS. FIXTURES RECESSED IN ACCESSIBLE CEILINGS SHALL BE FURNISHED WITH SEISMIC RESTRAINTS. FIXTURES RECESSED IN NON-ACCESSIBLE CEILINGS SHALL BE DESIGNED FOR BALLAST OR TRANSFORMER ACCESS THROUGH THE FIXTURE OPENING.
- 19.4. ALL EXIT SIGNS SHALL HAVE LED ILLUMINATION AND INTEGRAL BATTERY BACK-UP.
- 19.5. ALL NEW EXIT AND EMERGENCY LIGHTING TO MEET OR EXCEED CSA 22.2 NO 141-15.

20. LIGHTING CONTROLS

- 20.1. SENSORS AND SWITCH CONTROL SYSTEMS SHALL BE MANUFACTURED BY SENSORWORX. COOPER CONTROLS, SENSOR SWITCH OR APPROVED EQUAL. SYSTEM SHALL CONSIST OF THE FOLLOWING:
- 20.1.1. CEILING MOUNTED OCCUPANCY SENSOR - SENSORWORX MODEL #SWX-222-1.
- 20.1.2. 24VDC UNIVERSAL VOLTAGE POWER PACK - SENSORWORX MODEL #SWX-900-AX. MAXIMUM FIVE (5) SENSORS PER POWER PACK.
- 20.1.3. DIMMER SWITCH SENSORWORX MODEL #SWX-803-WH.
- 20.1.4. WALL MOUNTED OCCUPANCY SENSOR SWITCH - SENSORWORX MODEL #SWX-121-WH.
- 20.1.5. WALL MOUNTED OCCUPANCY SENSOR DIMMER SWITCH - SENSORWORX MODEL #SWX-121-D-WH.
- 20.1.6. ALL ASSOCIATED WIRING AS PER MANUFACTURERS SPECIFICATIONS.
- 20.2. SENSORS SHALL UTILIZE A COMBINATION OF PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY TO ACTIVATE AND/OR MAINTAIN LIGHTING. SENSORS SHALL INCLUDE ADJUSTMENTS FOR COVERAGE PATTERN AND SENSITIVITY, TIME DELAY TO OFF (30 MIN.) WITH LED DISPLAYS.
- 20.3. BEFORE THE TURN OVER OF THE PROJECT, THE CONTRACTOR SHALL COORDINATE THE SENSITIVITY, CALIBRATION AND ADJUSTMENTS OF ALL SENSORS IN THE FIELD IN CORRELATION WITH LIGHTING REQUIREMENTS, USAGE, AND THE OWNER.
- 20.4. ALL REQUIRED POWER PACKS ARE TO BE PROVIDED WITH TRANSFORMERS AND RELAYS AS REQUIRED.
- 20.5. PROVIDE 10' OF LOW VOLTAGE CABLE SLACK BETWEEN SENSOR AND SWITCHPACK.
- 20.6. WHERE MULTIPLE ZONE EXIST IN A PARTICULAR ROOM, PROVIDE SEPARATE SWITCHPACK FOR EACH LIGHTING ZONE IN THAT ROOM.

21. GROUNDING

- 21.1. THE DISTRIBUTION SYSTEM SHALL BE COMPLETELY AND PROPERLY GROUNDED USING APPROVED FITTINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE. SEPARATE INSULATED AND GROUNDING CONDUCTORS SHALL BE RUN WITH ALL THE FEEDERS WHERE INDICATED, RECEPTACLE BRANCH CIRCUITS AND FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES AND EQUIPMENT.
- 21.2. METAL RACEWAYS, METAL ENCLOSURES OF ELECTRICAL DEVICES AND OTHER EQUIPMENT SHALL BE COMPLETELY GROUNDED IN AN APPROVED MANNER. PROPER HARDWARE REQUIRED FOR A COMPLETE GROUNDING SYSTEM SHALL BE INSTALLED BY THE CONTRACTOR.

22. SPLICES AND TERMINATIONS

- 22.1. NO SPLICES OR JOINTS WILL BE PERMITTED IN EITHER FEEDER OR BRANCHES EXCEPT AT OUTLETS OR ACCESSIBLE TERMINAL, SPlice OR JUNCTION BOXES.
- 22.2. ALL MATERIALS REQUIRED FOR MAKING SPLICES AND/OR TERMINATIONS SHALL BE SUPPLIED IN COMPLETE KITS NOT OLDER THAN 6 MONTHS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL MATERIALS FURNISHED WILL NOT ADVERSELY AFFECT THE PHYSICAL OR ELECTRICAL PROPERTIES OF OTHER MATERIALS FURNISHED OR OF THE WIRE OR CABLE ITSELF.
- 22.3. WHERE THE CONTRACTOR MAKES CONNECTIONS TO EXISTING WIRES, THEY SHALL OPEN AND DISCONNECT THE EXISTING SPLICES FROM SUCH WIRES AND INSTALL NEW SPLICES TO INCLUDE THE EXISTING WIRES AS REQUIRED.
- 22.4. ALL SPLICES FOR WIRE SIZES #10 AWG AND SMALLER SHALL BE MADE WITH INSULATED SPRING CONNECTOR APPLIED TO TWISTED CONDUCTORS. TWO HALF LAPPED LAYERS OF VINYL TAPE EXTENDING A DISTANCE OF NOT LESS THAN ONE INCH FROM THE CONNECTOR SHALL BE APPLIED. SPLICES OTHER THAN THE AFOREMENTIONED WILL BE PERMITTED AT THE DISCRETION OF THE ENGINEER.
- 22.5. ALL SPLICES FOR WIRE SIZES #8 AWG AND LARGER SHALL BE MADE WITH HYDRAULIC COMPRESSION TYPE CONNECTORS WITH PRE-MOLDED COVER OVER WHICH TWO HALF LAPPED LAYERS OF VINYL TAPE EXTENDING A DISTANCE OF NOT LESS THAN ONE (1) INCH FROM THE CONNECTOR SHALL BE APPLIED.

23. IDENTIFICATION OF WORK

- 23.1. ALL PANELBOARDS, EQUIPMENT AND CABINETS SPECIFIED HEREIN SHALL BE CLEARLY IDENTIFIED WITH THE EQUIPMENT DESIGNATION, VOLTAGE AND AMPERE RATING, FUSE RATING, EQUIPMENT SERVED AND ORIGIN OF THE INCOMING FEED. IDENTIFICATION SHALL BE WHITE ON BLACK LAMACOD NAMEPLATE WITH 1/2" MINIMUM LETTERING MECHANICALLY ATTACHED TO EQUIPMENT.
- 23.2. FACEPLATES OF SWITCHES FOR EQUIPMENT SUCH AS REMOTE FANS AND MOTORIZED SCREENS SHALL BE IDENTIFIED WITH THE NAME OF THE DEVICE CONTROLLED. IDENTIFICATION SHALL BE BY INDELIBLE MARKER IN CONCEALED LOCATIONS AND ADHESIVE LABELS IN EXPOSED LOCATIONS. EMERGENCY DEVICES SHALL BE IDENTIFIED IN RED.
- 23.3. EMPTY CONDUITS SHALL BE IDENTIFIED WITH TAGS AT BOTH ENDS INDICATING THE LOCATION OF TERMINATION AT THE OPPOSITE END.
- 23.4. BALLAST COMPARTMENTS FOR FIXTURES OPERATING AT GREATER THAN 120 VOLTS SHALL BE IDENTIFIED WITH A BRIGHT ORANGE ADHESIVE WARNING LABEL INDICATING VOLTAGE.
- 23.5. ALL WIRES SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBER AT ALL TERMINATION AND SPlice POINTS BY THE USE OF BRADY 8-500 VINYL CLOTH TAPE OR EQUIVALENT METHOD.
- 23.6. ALL JUNCTION BOXES SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OF ALL CIRCUITS OR THE NAME OF COMMUNICATIONS SYSTEM CABLEING CONTAINED WITHIN. JUNCTION BOXES IN EXPOSED LOCATIONS SHALL BE CLEARLY MARKED WITH IDENTIFYING LABELS. JUNCTION BOXES IN CONCEALED LOCATIONS SHALL BE MARKED WITH A BOLD, INDELIBLE MARKING PEN. LETTERING SHALL BE NEATLY AND LEGIBLY PRINTED, JUNCTION BOXES ON EMERGENCY SERVICE SHALL BE PAINTED RED AND LABELED AS EMERGENCY.
- 23.7. CONDUIT RUNS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS CABLEING SHALL BE IDENTIFIED AT EVERY 50 FEET OF LENGTH, AND AT EACH OUTLET AND PULL BOX WITH CIRCUIT NUMBER OR SYSTEM NAME.

24. INSTALLATION OF LIGHTING FIXTURES

- 24.1. LOCATIONS OF LIGHTING FIXTURES INDICATED ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS, MODELS, AND TRIM TYPES OF ALL LIGHTING FIXTURES PRIOR TO INSTALLATION.
- 24.2. RECESSED FIXTURES SHALL BE FURNISHED COMPLETE WITH MOUNTING DEVICES AND ACCESSORIES.
- 24.3. FIXTURES SHALL BE ATTACHED TO CEILING SUPPORTING MEMBERS AND SHALL NOT DEPEND UPON LATHING OR PLASTER FOR ALIGNMENT OR SUPPORT. FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED BY SADDLE HANGERS OR TIE-BARS ATTACHED TO RUNNERS OR BETWEEN CROSSBARS OF CEILING SYSTEMS. MOUNTING SPLINES OR OTHER POSITIVE MEANS OF MAINTAINING ALIGNMENT AND RIGIDITY SHALL BE PROVIDED. SUPPORTING MEMBERS SHALL BE SURFACE PASSIVATED AND SHALL BE PRIMERED OR PAINT DIPPED TO RESIST CORROSION. FASTENING DEVICES SHALL BE OF A POSITIVE, LOCKING TYPE, AND SHALL NOT REQUIRE THE USE OF SPECIAL TOOLS TO REMOVE. THE WIRES SHALL NOT BE USED IN PLACE OF FASTENING DEVICES.
- 24.4. SPLICES SHALL NOT BE PERMITTED IN ANY RUN OF LIGHTING FIXTURE HOOKUP WIRE.
- 24.5. SEPARATELY MOUNTED OUTLET BOXES AND FLEXIBLE CONDUIT DIGITAL CONNECTIONS (MAXIMUM LENGTH OF 6'-0") SHALL BE PROVIDED FOR LIGHTING FIXTURES RECESSED IN HUNG CEILINGS WITH ACCESSIBLE TILES. ONE (1) OUTLET BOX MAY SERVE UP TO A MAXIMUM OF FOUR (4) RECESSED LIGHTING FIXTURES.

25. CUTTING AND PATCHING

- 25.1. ALL CUTTING AND PATCHING REQUIRED FOR EQUIPMENT INCLUDED IN THESE SPECIFICATIONS SHALL BE DONE BY THIS CONTRACTOR. PATCHING TO BE PROVIDED BY A QUALIFIED TRADE AND COORDINATED WITH GENERAL CONTRACTOR.
- 25.2. THE CONTRACTOR SHALL NOT DO ANY CUTTING THAT MAY IMPAIR THE STRENGTH OF BUILDING CONSTRUCTION, NO HOLES ARE TO BE DRILLED INTO ANY STRUCTURAL MEMBERS, CLAMPS OR OTHER APPROVED HOLDING DEVICES ARE TO BE USED.
- 25.3. ALL THE CUTTING OF EXISTING FLOORS, CEILINGS AND WALLS SHALL BE PERFORMED IN A MANNER SO AS TO MINIMIZE DAMAGE TO ADJACENT MATERIALS. PATCHING OF ALL SURFACES SHALL BE PERFORMED IN A MANNER APPROVED BY THE ARCHITECT TO INSURE COMPLETE MATCHING WITH ADJACENT FINISHES AFTER FINAL TREATMENT OF SURFACES.

26. CORE DRILLING

30.1. AFTER COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION:

30.1.1. THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, SHALL CLEAN ALL PANELS, SWITCHES, CABINETS, DEVICES PLATES, FIXTURES AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT AND SHALL ENSURE THAT ALL PANELBOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK, AND THAT ALL IDENTIFICATION AND MARKING OF EQUIPMENT, CABLES, ALL JUNCTION BOXES AND OTHER ITEMS IS COMPLETED.

30.1.2. THE CONTRACTOR SHALL REPAIR OR REPLACE, AS DIRECTED BY THE ENGINEER, ANY ITEM DAMAGED DUE TO INSTALLATION OR RELOCATION OF EQUIPMENT OR DEVICES AT NOT ADDITIONAL COST TO THE OWNER.

30.2. IN ADDITION TO OTHER TESTS WHICH MAY BE REQUIRED BY OTHER DIVISIONS, PERFORM FIELD TESTS IN THE PRESENCE OF THE ENGINEER, TO DEMONSTRATE THE PROPER FUNCTIONING OF THE ELECTRICAL INSTALLATION. THE ENGINEER SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE OF ALL TESTS. REQUIRED FIELD TESTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

30.2.1. OPERATION OF ALL ELECTRICAL EQUIPMENT FOR A PERIOD FOR A PERIOD OF 24 HOURS WITHOUT INTERRUPTION.

30.2.2. 1,000 VOLT MEGOHMMETER TEST FOR ALL WIRES AND CABLES FURNISHED. THE CONTRACTOR SHALL FURNISH A TEST REPORT TO THE ENGINEER INDICATING TEST METHOD USED AND RESULTS. IF GROUND RESISTANCE ON ANY CIRCUIT IS LESS THAN THAT REQUIRED BY CSA, SUCH CIRCUITS ARE TO BE CONSIDERED DEFECTIVE AND MUST BE REPLACED.

30.2.3. MEASURE PHASE CURRENT TO PANELBOARDS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTION AS REQUIRED TO OBTAIN THE BEST BALANCE OF CURRENT BETWEEN PHASES AND SUBMIT A REPORT FOR INSERTION INTO MANUALS.

30.3. ALL DEFECTIVE FIXTURES CABLES OR OTHER EQUIPMENT ENCOUNTERED DURING THE COURSE OF TESTING SHALL BE PROMPTLY REPLACED AND RETESTED TO THE SATISFACTION OF THE ENGINEER.

31. PLYWOOD

31.1. PLYWOOD BACKBOARDS SHALL BE 19MM (3/4") THICK, ULC OR CSA FIRE RETARDANT FIR. REFER TO DRAWINGS FOR SIZE. PRIME AND PAINT BACKBOARDS WITH FIRE RETARDANT PAINT EQUAL TO CGSB SPEC. #1-GP-151M, OF A COLOUR AS SELECTED BY THE ARCHITECT OR CONSULTANT. FIRE RETARDANT LABELS SHALL NOT BE PAINTED OVER.

32. COORDINATION OF MECHANICAL DRAWINGS

32.1. UNLESS INDICATED OTHERWISE ON THE ELECTRICAL DRAWINGS, ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF THE FOLLOWING:

32.1.1. STARTERS AND DISCONNECT SWITCHES (INSTALLATION ONLY)

32.1.2. LINE AND LOAD SIDE WIRING FOR STARTERS

32.1.3. LINE AND LOAD SIDE WIRING TO VARIABLE SPEED DRIVES.

32.1.4. ALL POWER WIRING (120V & ABOVE) TO ALL MECHANICAL EQUIPMENT.

32.1.5. ALL MOTORIZED DAMPER POWER CONNECTIONS (120V & ABOVE).

32.1.6. ADDITIONAL FIRE ALARM DEVICES.

32.1.7. WIRING TO ELECTRIC SPACE HEATERS.

32.2. MECHANICAL DIVISIONS WILL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF THE FOLLOWING:

32.2.1. STARTERS AND DISCONNECT SWITCHES TO MECHANICAL UNITS.

32.2.2. ALL VARIABLE SPEED DRIVES AND CONTROL WIRING TO STARTERS.

32.2.3. PIPE TRACING AND RELATED CONTROLS.

32.2.4. ELECTRIC HOT WATER HEATERS.

32.2.5. ALL INTERPOSING RELAYS, RELAYS, CONTACTORS AND 120V CONTROL DEVICES.

32.2.6. ALL 120V AND LOW VOLTAGE CONTROL WIRING AND CONDUITS.

32.2.7. SHOULD THE MECHANICAL CONTRACTOR CHANGE ANY OF THE MOTOR OR EQUIPMENT SIZES FROM THOSE IDENTIFIED ON THE MECHANICAL SCHEDULES AND DRAWINGS AT ANY STAGE OF THE PROJECT TO AIDE THEIR INSTALLATION, THE MECHANICAL CONTRACTOR WILL INCUR ALL EXTRA ELECTRICAL COSTS TO REVISE THE ELECTRICAL FEEDERS, BREAKERS, STARTERS AND EQUIPMENT TO SUPPLY POWER TO THE REVISED PIECE OF EQUIPMENT.

32.3. DETERMINE EXACT LOCATION OF STARTERS, MOTORS AND LINE VOLTAGE CONTROLS BASED ON THE MECHANICAL DRAWINGS TO COORDINATE WITH THE LOCATIONS OF ALL EQUIPMENT TO ENSURE THE REQUIRED CLEARANCES ARE MAINTAINED. IF NO WALL LOCATION IS SUITABLE FOR THE MOTOR STARTERS, THEN MOUNT THE STARTERS ON A PLYWOOD BACKBOARD NEAR THE RESPECTIVE EQUIPMENT TO MEET THE APPLICABLE CODE REQUIREMENTS FOR MOTOR ISOLATION SWITCHES. IF A MOTOR OR PIECE OF EQUIPMENT IS LISTED ON ONE OF THE STARTER SCHEDULES BUT IS NOT SHOWN ON THE FLOOR PLANS, THE CONTRACTOR IS TO REFERENCE THE MECHANICAL DRAWINGS FOR THE LOCATION OF THE RESPECTIVE PIECE OF EQUIPMENT. NO ADDITIONAL COSTS WILL BE ENTERTAINED.

33. DATA/VOICE SPECIFICATION

33.1. HORIZONTAL CABLEING

33.1.1. PROVIDE AND INSTALL ALL HORIZONTAL DATA CABLEING AS INDICATED. HORIZONTAL DATA CABLES SHALL BE 4-PAIR 100 OHM UTP, 22 TO 24 AWG, CMR/COMP, FTE6/4 FIRE RATED, CERTIFIED TO ANSI/TIA/EIA-568-B.2. CATEGORY 6 SPECIFICATIONS, AND BLUE IN COLOUR. THE FULL END TO END 100 METER CHANNEL THAT INCLUDES A WORST CASE OF FOUR TERMINATIONS (INCLUDING CONSOLIDATION POINT AND CROSS CONNECT) MUST MEET ALL OF THE CRITERIA (AS A MINIMUM) AS DEFINED IN SECTION 1.10. THE CHANNEL PERFORMANCE SPECIFICATIONS ALL OF THE PARAMETERS IN SECTION 1.10 MUST BE TESTED (AND PUBLISHED) UP TO AND INCLUDING 1 GHZ AND WARRANTABLE UP TO AND INCLUDING 1 GHZ FOR A MINIMUM PERIOD OF 30 YEARS.

33.1.2. PROVIDE AND INSTALL ALL HORIZONTAL VOICE CABLEING AS INDICATED. HORIZONTAL VOICE CABLES SHALL BE 4-PAIR UNSHIELDED TWISTED PAIR, CSA FT6/CM PLENUM FIRE RATED, CERTIFIED TO ANSI/TIA/EIA-568-B.2. CATEGORY 6 SPECIFICATIONS, AND WHITE IN COLOUR. ALL FUTURE REFERENCE TO 'VOICE CABLE' SHALL REFER TO THE REQUIREMENTS AS STATED IN THIS SECTION. THE CABLE MUST BE CSA CERTIFIED AND STAMPED ACCORDINGLY. ALL CATEGORY 6 UTP VOICE CABLE SHALL HAVE A WHITE OUTER JACKET. OTHER COLORS MAY BE ACCEPTABLE IF APPROVED IN WRITING BY THE CONSULTANT.

33.1.3. WHEN INSTALLED IN CONDUIT, FT4 TYPE CABLES CAN BE USED.

33.1.4. ALL CABLES PULLED AND TERMINATED FOR SERVERS ARE TO BE TREATED EXACTLY THE SAME AS OTHER HORIZONTAL VOICE AND DATA CABLES.

33.1.5. THE INSTALLATION SHALL COMPLY WITH GOITS STANDARDS.

33.1.6. HORIZONTAL CABLEING SHALL BE SUPPLIED AS END-TO-END SOLUTION BY BELDEN/NORDX OR HUBBELL.

33.2. MODULAR JACKS AND ADAPTORS

33.2.1. PROVIDE AND INSTALL ALL MODULAR JACKS AS INDICATED.

33.2.2. MODULAR JACK CURRENT RATINGS: 1.5 AMPERES MAXIMUM

MODULAR JACK DURABILITY: 750 MATING CYCLES

MODULAR JACK CONTACT PRESSURE: 100 GRAMS, MINIMUM PER CONTACT

DIELECTRIC VOLTAGE STRENGTH: 1000V RMS AT 60HZ.

33.2.3. THE UTP MODULES MUST BE MATCHED APPROPRIATELY WITH THE VOICE AND DATA CABLES TO ENSURE THAT END TO END VENDOR WARRANTIES WILL BE APPLICABLE. ALL UTP DATA AND VOICE CABLES SHALL BE TERMINATED WITH THE JACK COLORS AS DESCRIBED BELOW.

DATA MODULE COLOR - BLUE

VOICE MODULE COLOR - WHITE

THE COLOR OF THE UTP MODULES MAY BE CHANGED AT THE DISCRETION OF THE CONSULTANT.

33.3. TERMINATION VOICE MODULES, RACKS AND PATCH PANELS

33.3.1. PROVIDE VOICE TERMINATION BLOCKS WHERE SHOWN ON DRAWINGS. VOICE TERMINATION PANELS TO BE MOUNTED ON DEDICATED RACK.

33.3.2. ALL UTP VOICE AND DATA MODULES SHALL BE 8-PIN RJ45'S CONFORMING TO THE ENHANCED CATEGORY 6 STANDARD. THE JACKS MUST ACCEPT EITHER RJ 45 OR RJ11 MALE PLUGS WITHOUT CAUSING ANY DAMAGE OR DEGRADATION TO THE CONNECTORS.

33.4. RISER CABLEING - VOICE

33.4.1. THE 100 PAIR COPPER RISER VOICE CABLE SHALL CONSIST OF 24 AWG THERMOPLASTIC INSULATED CONDUCTORS. THE BINDER GROUPS ARE TO BE IDENTIFIED BY DISTINCTLY COLOURED BINDERS AND ASSEMBLED TO FORM A SINGLE COMPACT CORE COVERED BY A DUAL POLYETHYLENE/POLYVINYL CHLORIDE INSULATION AND AN ALPLAST SHEATH. THE CONDUCTORS

SHALL BE SOLID ANNEALED COPPER AND THE INSULATED CONDUCTORS SHALL BE TWISTED TO FORM PAIRS. THE CABLE SHALL BE CSA CERTIFIED CBC FT4 IN ACCORDANCE WITH CSA STANDARD C22.2 NO. 214M. THE CABLE SHALL MEET OR EXCEED MINIMUM CSA SPECIFICATIONS FOR 100 OHM UTP MULTIPAIR BACKBONE CABLES AS DEFINED IN CSA DOCUMENT CSA-T529M SECTION 10.3.

33.5. CROSS-CONNECTION CABLES AND WIRE

33.5.1. THE UTP DATA PATCH CORD FOR CONNECTING A DATA PATCH PANEL JACK TO ITS CORRESPONDING EQUIPMENT JACK SHALL BE OF UNSHIELDED TWISTED PAIR WITH EIGHT 24 AWG THERMOPLASTIC PLATED, STRANDED COPPER CONDUCTORS FORMED INTO FOUR INDIVIDUALLY TWISTED PAIRS WITH TIGHT TWISTING FOR HIGH SPEED OPERATIONS. THE UTP LINE CORD FOR CONNECTING THE STATION OUTLET JACK TO THE STATION EQUIPMENT (TYPICALLY A PERSONAL COMPUTER) IS TO BE OF EQUIVALENT CONSTRUCTION.

33.5.2. THE UTP PATCH/LINE CORD SHALL BE WIRED EIA-A TO EIA-A WITH A ONE-TO-ONE CORRESPONDENCE STRAIGHT-THROUGH AND TERMINATED ON BOTH ENDS ON 8-POSITION MODULAR LONG PLUGS WITH MINIMUM OF 50 MICRO-INCH GOLD PLATING. THE UTP PATCH CORDS SHALL BE C/W LABELS AT BOTH ENDS.

33.5.3. DATA PATCH CORDS AND DATA LINE CORDS SHALL BE SUPPLIED AND OF THE SAME MANUFACTURER AS THE HORIZONTAL CABLES AND SHALL MEET OR EXCEED THE PERFORMANCE CHARACTERISTICS OF THE HORIZONTAL DATA CABLE.

33.6. TESTING

33.6.1. PROVIDE TEST REPORTS FOR BOTH DATA AND VOICE CABLEING. UTP CAT 6 TESTING SHALL INCLUDE:

33.6.2. -ATTENUATION

33.6.3. -NEAR END CROSSTALK (NEXT)

33.6.4. -INSERTION LOSS

33.6.5. -ATTENUATION TO CROSSTALK, TO PSNEXT

33.6.6. -POWER SUM (PS-NEXT)

33.6.7. -RETURN LOSS (RL)

33.6.8. -EQUAL LEVEL FAR END CROSSTALK (ELFEXT)

33.6.9. -POWER SUM ELFEXT (PS-ELFEXT)

33.6.10. -FAR END CROSSTALK (FEXT)

33.6.11. -ATTENUATION TO CROSSTALK RATIO (ACR)

33.6.12. -POWER SUM ATTENUATION TO CROSSTALK RATIO (PSACR).

33.7. IDENTIFICATION LABELS

33.7.1. EACH HORIZONTAL CABLE AND PATCH CORD SHALL BE AFFIXED WITH MECHANICALLY PRINTED LABELLING TABS OR TYPED LETTER SELF-ADHESIVE MYLAR AT BOTH ENDS. (THE LETTERING SHALL NOT BE EXPOSED.)

33.7.2. LABELING SCHEME:

33.7.3. -DATA CABLES: D-X-1 TO 100

33.7.4. -VOICE CABLES: V-X-1 TO 100

33.7.5. WHERE LETTERS AND NUMBERS DENOTE:

33.7.6. D- DATA CABLE, V-VOICE CABLE

33.7.7. X - DENOTES FLOOR NUMBER

33.7.8. NEXT NUMBER DENOTES CABLE NUMBER

33.8. GROUNDING

33.8.1. GROUND WIRE SHALL BE STRANDED #6AWG COPPER WIRE, GREEN INSULATED JACKET.

33.8.2. ALL RACKS AND CABINETS MUST BE GROUNDED. PROVIDE AND INSTALL ONE GROUND WIRE FROM EACH RACK OR CABINET TO THE NEAREST APPROVED ELECTRICAL GROUND.

33.9. RISER CABLEING - FIBRE OPTICS

33.9.1. MULTI-MODE FIBRE OPTIC CABLE SHALL CONSIST OF 24 STRANDS MULTI-MODE FIBRE OPTIC BETWEEN MAIN BELL ROOM AND SECOND FLOOR LAN ROOM AND 6 STRANDS MULTI-MODE FIBRE OPTIC BETWEEN 2ND FLOOR AND 3RD, 4TH, 5TH AND 6TH FLOOR WHICH SHALL BE TIGHT-BUFFERED, DUAL-WINDOW, GRADED-INDEX OPTICAL FIBRE.

33.9.2. THE MULTI-MODE FIBRE CABLE SHALL MEET REQUIREMENTS FOR FDDI AND IBM CHANNEL EXTENDER WITH MINIMUM PERFORMANCE PARAMETERS AS DETAILED IN THE FOLLOWING TABLE:

33.9.3. PARAMETER

33.9.4. MAXIMUM INDIVIDUAL ATTENUATION (DB/KM) 850NM 1300NM

33.9.5. TYPICAL ATTENUATION (@23°C) 2.9 0.9

33.9.6. MINIMUM BANDWIDTH - 3db OPTICAL (mhz-KM) 200 500

33.9.7. ALL FIBRE CABLE SHALL BE ENCLOSED IN FIBRE DUCT OR CONDUIT TO THE POINT OF TERMINATION FOR MAXIMUM MECHANICAL AND ENVIRONMENTAL PROTECTION. ALL SUCH FIBRE PATHWAYS SHALL BE SIZED LARGE ENOUGH SO THAT ALL INTERNAL CABLEING IS ROUTED FREELY INSIDE WITH NO CONTINUOUS CONTACT WITH THE ENVELOPING PATHWAY. (ALL FIBRE PATHWAYS SHALL MEET ALL RELEVANT BUILDING CODES.)

33.9.8. LEAVE A MINIMUM OF 7 FEET OF SLACK FIBRE CABLEING AT THE TERMINATION CABINET ENDS.

33.9.9. MULTI-MODE FIBRE CABLE SHALL BE ORANGE IN COLOUR. FIBRE CABLES SHALL BE AS MANUFACTURED BY HUBBELL, NORDX/CDT OR BY OCC.

33.10. FIBRE OPTIC EQUIPMENT

33.10.1. FIBRE OPTIC RISER PANEL TO BE RACK MOUNTABLE FIBRE OPTIC DISTRIBUTION CENTRE/PANEL.

33.10.2. FIBRE CABINET TO ACCOMMODATE UP TO 24 CONNECTORS ON THE SECOND FLOOR AND MINIMUM OF FOUR SEPARATE TIGHT BUFFERED CABLES.

33.10.3. SPOOLS FOR STORING PATCH CORD SLACK AND MECHANISM TO CONTROL BEND RADII WITHIN CABINET, HINGED FRONT OR SHELF PROVIDING EASY ACCESSIBILITY TO CONNECTORS AND SPLICES.

33.10.4. FIBRE OPTIC PANEL WITH ST CONNECTOR PANEL MODULES FULLY LOADED WITH ST SIMPLEX FIBRE OPTIC ADAPTERS.

33.10.5. ALL CONNECTORS SHALL COMPLY TO ANSI. ALL ST CONNECTORS SHALL MEET THE FOLLOWING SPECIFICATIONS:

33.10.6. -ATTENUATION: <= 0.75DB PER MATED ST OR SC CONNECTOR PAIR @23°C ± 5°C

33.10.7. -RETURN LOSS: <= 20DB @ 23°C ± 5°C

33.10.8. -TOTAL OPTICAL ATTENUATION: <= 1.5DB THROUGH THE CROSS-CONNECT FROM ANY TERMINATED OPTICAL FIBRE TO ANY OTHER TERMINATED OPTICAL FIBRE.

33.10.9. -DURABILITY: <= 500 MATING CYCLES PER ANSI/EIA/TIA-455-21 @23°C ± 5°C

33.10.10. -CONNECTOR OPTICAL AXIAL PULL STRENGTH: 2.2N @ 0°, 2.2N @ 90° WITH A MAXIMUM 0.5DB INCREASE IN ATTENUATION.

33.10.11. -MAXIMUM INSERTION LOSS: 0.6DB

33.10.12. -FERRULE MATERIAL: CERAMIC

33.11. INSTALLATION NOTES:

33.11.1. ALL UTP CATEGORY CAT 6 CABLEING MUST BE INSTALLED IN ACCORDANCE WITH ANSI/TIA/EIA-568-B.2. CATEGORY 6 INSTALLATION REQUIREMENTS.

33.11.2. ALL CABLES SHALL BE NEATLY BUNDLED AND TIE-WRAPPED. VOICE AND DATA CABLES SHALL BE SEPARATED INTO TWO (2) DISTINCT BUNDLES AND ROUTED THROUGH THE SAME CONDUIT. SECURE BUNDLES TO AVAILABLE VERTICAL AND HORIZONTAL SUPPORTS AND NEATLY FASTEN TO PATCH PANELS.

33.11.3. ROUTE ALL CABLES TO MAINTAIN MINIMUM SEPARATIONS FROM SOURCES OF LIGHTING, POWER CABLES, HVAC AND OTHER ELECTRICAL EQUIPMENT. PROVIDE ADDITIONAL MATERIALS IN ORDER TO MEET THE MINIMUM SEPARATION REQUIREMENTS.

33.11.4. ALL DATA AND VOICE CABLES ARE TO BE PULLED IN CONTINUOUS RUNS. NO CABLE SPLICES ARE ALLOWED.

33.11.5. ALL CABLEING MUST BE ROUTED TO MINIMIZE CROSS-OVERS AND CONGESTION.

33.11.6. EXERCISE CAUTION WHEN PULLING CABLES TO ENSURE THAT THE MANUFACTURER'S MAXIMUM PULL-FORCE AND MINIMUM BEND RADII SPECIFICATIONS ARE ADHERED TO.

33.11.7. ALL CABLEING SHALL BE NEATLY DRESSED AND COMBED ALONG THE BACK OF BACKBOARD AND AT ALL TERMINATION LOCATIONS.

33.11.8. PROVIDE CABLE SUPPORTS, HARNESSSES AND SLEEVES AS REQUIRED. ALL FREE RUNNING CABLES SHALL BE SECURELY FASTENED TO APPROPRIATE CABLE SUPPORTS AND HARNESSSES WITH A MAXIMAL INTERSUPPORT CABLE SAG OF 150MM. ALL CABLES SHALL BE COMPLETELY SUPPORTED BY THE HARNESSSES SO THAT NO WEIGHT IS TRANSFERRED TO ANY OTHER EXISTING FIXTURE OR CEILING SPACE STRUCTURE. CABLE SUPPORTS SHALL BE CADDY CABLECAT OR EQUIVALENT.

33.11.9. WHEN TERMINATING THE CABLE AT MODULAR JACKS AND TERMINATION PANELS, THE LENGTH OF UNJACKETED CONDUCTORS SHALL NOT EXCEED 17(25)MM. THE AMOUNT OF UNTWISTING OF CABLE CONDUCTORS MUST NOT BE GREATER THAN 1/2" (13 MM) AFTER TERMINATION.

33.11.10. EACH CABLE AND TERMINATION JACK SHALL BE LABELLED WITH A MECHANICALLY PRINTED IDENTIFICATION LABEL. CABLE LABELS TO BE SELF-LAMINATING VINYL CONSTRUCTION WITH WHITE MARK-ON COLOUR AND CLEAR OVERLAPS. CABLE LABEL SHALL BE A MINIMUM OF 21(50MM) WIDE AND OF SUFFICIENT LENGTH TO PERMIT CLEAR OVERLAP TO BE WRAPPED COMPLETELY AROUND THE CABLE AT LEAST ONE AND A HALF TIMES.

33.11.11. INSTALLERS SHALL BE CERTIFIED BY THE MANUFACTURER TO QUALIFY THE INSTALLATION FOR A 25-YEAR WARRANTY. INSTALLER SHALL PROVIDE CERTIFICATE WITHIN 14 DAYS OF THE CONTRACT AWARD AND SHALL INCLUDE END-TO-END CHANNEL TEST REPORTS WITH PROJECT COMMISSIONING DOCUMENTATION.

34. FIRE ALARM SYSTEM

34.1. ALL WORK, MATERIALS, INSTALLATION LOCATIONS, HEIGHTS, CLEARANCES, ETC. SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES, STANDARDS AND REGULATIONS.

34.2. ALL INSTALLATIONS AND EQUIPMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL BUILDING CODE, ONTARIO BUILDING CODE, CANULC S-524, CANULC-S525, CANULC-S526, CANULC-S527, CANULC-S528, CANULC-S529, CANULC-S530, AND SUBJECT TO THE LOCAL AUTHORITIES HAVING JURISDICTION.

34.3. ALL TESTING AND VERIFICATION SHALL BE IN CONFORMANCE WITH CANULC S-537. PROVIDE FINAL ACCEPTANCE, VERIFICATION TEST /REPORTS & CERTIFICATION OF ENTIRE SYSTEM.

34.4. SUPPLY AND INSTALL ALL NECESSARY EQUIPMENT & MATERIALS TO ACCOMMODATE DEVICES WIRING, ETC. ALL EQUIPMENT MUST BE OPERATIONAL, TESTED AND VERIFIED TO THE SATISFACTION OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

34.5. PROVIDE ALL NECESSARY CONDUITS, WIRING, JUNCTION BOXES, ETC. REQUIRED FOR A COMPLETE SYSTEM INSTALLATION. COORDINATE CONDUIT ROUTING ON SITE WITH ALL TRADES.

34.6. MOUNT AND CALIBRATE ALL DEVICES IN ACCORDANCE THE WITH O.B.C., CANULC STANDARDS AND LOCAL AUTHORITIES HAVING JURISDICTION.

34.7. COORDINATE ALL DEVICE FINAL LOCATIONS WITH ALL OTHER TRADES AND G.C. ON SITE PRIOR TO ROUGH-IN. ENSURE TO INSTALL DEVICES TO AVOID ANY BULKHEADS, PARTITIONS, ETC.

34.8. ALL WORK SHALL BE PERFORMED BY A APPROVED CERTIFIED CONTRACTOR.

ELECTRICAL LEGEND		ABBREVIATIONS	
LIGHTING CONTROL		AC	ABOVE COUNTER
	DECORA TYPE LIGHT SWITCH	AFF	ABOVE FINISHED FLOOR
	CEILING MOUNTED OCCUPANCY SENSOR	BAS	BUILDING AUTOMATION SYSTEM
SWITCH SUBSCRIPTS: 3 - THREE WAY 4 - FOUR WAY D - DIMMER SWITCH OS - OCCUPANCY TYPE SENSOR SWITCH C/W MANUAL OVERRIDE T - 20/40/60 MIN. TIMER SWITCH NL - NIGHT LIGHT KP - KEY PAD		BFG	BELOW FINISHED GRADE
	DECORA DUPLEX RECEPTACLE 5-15R (OR AS NOTED), 120VAC, 15A/1P.	C	CEILING MOUNTED
	DECORA QUAD RECEPTACLE 5-15R (OR AS NOTED), 120VAC, 15A/1P	C/B	CIRCUIT BREAKER
	DECORA DUPLEX SPLIT RECEPTACLE 5-15R (OR AS NOTED), 120VAC, 15A/1P.	⚡	CENTERLINE
	FLOOR MOUNTED COMPACT DUPLEX RECEPTACLE, 5-15R OR AS NOTED	E/EX/EXIST	EXISTING EQUIPMENT TO REMAIN
	SINGLE SPECIALTY RECEPTACLE AS NOTED ON DWG	EC	EMPTY CONDUIT
	120 VOLT DIRECT CONNECTION , 1PH.	EM	EMERGENCY
	208 VOLT DIRECT CONNECTION, 1 PH.	EMT	ELECTRICAL METALLIC TUBING
	208 VOLT DIRECT CONNECTION , 3 PH.	FA	FIRE ALARM
	347/600 VOLT DIRECT CONNECTION 3 PH	G/GRD/GMD	GROUND
	JUNCTION BOX	GFI	GROUND FAULT INTERRUPTER
	DISCONNECT SWITCH.	HL	MOUNTED AT HIGH LEVEL
	FLUSH MOUNTED, SURFACE MOUNTED PANELBOARDS	HP	HORSE POWER
	DYSON AIRBLADE V 1000 WATTS, 120/1PH VOLT. CONFIRM SPEC/FINISH WITH ARCHITECT/OWNER PRIOR TO ORDERING.	LVR	LOW VOLTAGE RELAY
	HDMI OUTLET.	MH	MOUNTING HEIGHT
	1A.8 TYPICAL CIRCUIT NUMBER INDICATE PANEL '1A' AND CIRCUIT NUMBER 8.	MTD	MOUNTED
COMMUNICATION		N/NEW	NEW EQUIPMENT BY THIS CONTRACTOR
	COMPUTER NETWORK DATA LINE SINGLE JACK 12" AFF OR AS NOTED. PROVIDE (1) RJ45 JACKS AND (1) CAT 6 UTP CABLE CABLE TO CENTRAL HUB LOCATION.	NIC	NOT IN CONTRACT
	HDMI OUTLET.	NTS	NOT TO SCALE
	DOOR LOCK PUSH BUTTON	OC	ON CENTER
	BARRIER FREE DOOR OPENER PUSH BUTTON, TYP. FOR 2.	P	POLES
FIRE ALARM SYSTEM		PH	PHASE
	MANUAL PULL STATION	STD	STANDARD
	HEAT DETECTOR	SPDT	SINGLE POLE DOUBLE THROW
	SMOKE DETECTOR	SPST	SINGLE POLE SINGLE THROW
	FIRE ALARM BELL	SWBD	SWITCHBOARD
	FIRE ALARM HORN/STROBE COMBO	REL	EXISTING EQUIPMENT TO BE RELOCATED
	FIRE ALARM STROBE	REM	EXISTING EQUIPMENT TO BE REMOVED
	FIRE ALARM ANNUNCIATOR	REP	EXISTING EQUIPMENT TO BE REPLACED
COMMUNICATION TAG: 2D ↑ DATA # OF DATA OUTLETS		TYP	TYPICAL

LIGHTING LEGEND					
TAG	MANUFACTURER	CATALOG #	LUMENS	WATTS	COMMENTS
A	LIGHTOLIER	M4RDL109CSWDCD210U-3500K	762	8.3	
B	DAY-BRITE CFI	2SBP3050L8DS-4-UNV-DIM	4549	40	NSF RATED FOR USE IN FOOD PREP AREAS.
C	DAY-BRITE CFI	14SBP235L8DS-4-UNV-DIM	2282	18	
D	TBD	TBD	---	---	
EA	STANPRO	PRMER-1WWH	---	---	
EB	STANPRO	PRMS12-2L	---	---	
EC	STANPRO	RMSE-IB1 (SELF POWERED)	---	---	
RA	STANPRO	SLH-5L	---	---	
NOTES: 1. ALL LIGHT FIXTURES ARE MUST BE LED TYPE. 2. ALL LIGHT FIXTURES MUST BE CSA /ETC/ LISTED AND APPROVED FOR USE IN CANADA. 3. CONFIRM MOUNTING REQUIREMENTS WITH LIGHTING SUPPLIER 4. ALL EXIT & EMERGENCY LIGHTING SHALL CONFORM TO 'CSA C22.2 No.141-02' 5. SIZE ALL WIRES TO SUIT VOLTAGE DROP ACCORDINGLY TO WIRE LENGTH. 6. PROVIDE DIRECTIONAL ARROW ON EXIT SIZES WHERE REQUIRED.					

GENERAL EXHAUST FAN SCHEDULE PROVIDE A SEPARATE PRICE IN TENDER FOR THIS SCOPE OF WORK. (SUPPLY & INSTALL)				
UNIT	MAKE	MODEL	VOLTAGE	NOTES
GEF-1	GREENHECK	CSP-A710	115V/1PH, 4.4 AMPS	1
GEF-2	GREENHECK	FV1115VK2	115V/1PH	2
NOTES: 1. TO BE OPERATED BY ON/OFF SWITCH BY THE ELECTRICAL CONTRACTOR. (LABEL SWITCH DISHWASHER AND STEAM KETTLE GENERAL EXHAUST FAN). 2. TO BE OPERATED BY REVERSE ACTING THERMOSTAT BY THE MECHANICAL CONTRACTOR.				

HEAT PUMP UNIT SCHEDULE			
UNIT REF.	MANUFACTURER MODEL NO.	VOLTAGE MCA	NOTES:
HP-1	mitsubishi INDOOR UNIT: PKA-A36KA8-TH OUTDOOR UNIT: PUZ-HA36NKA	208V/1PH 26.0	DUCTLESS HEAT PUMP SYSTEM TO BE: - COLD CLIMATE HYPER HEAT H2I INVERTER TECHNOLOGY - MITSUBISHI THERMOSTATIC CONTROLLER - SERVICE DISCONNECT SWITCH'S - PERFORM ALL INSTALLATIONS IN ACCORDANCE WITH THE MANUFACTURERS SHOP DRAWINGS. - ALL CONTROL & LOW VOLTAGE WIRING FOR SYSTEM IS TO BE BY MECHANICAL CONTRACTOR - START UP AND COMMISSIONING IS TO BE DONE BY MITSUBISHI