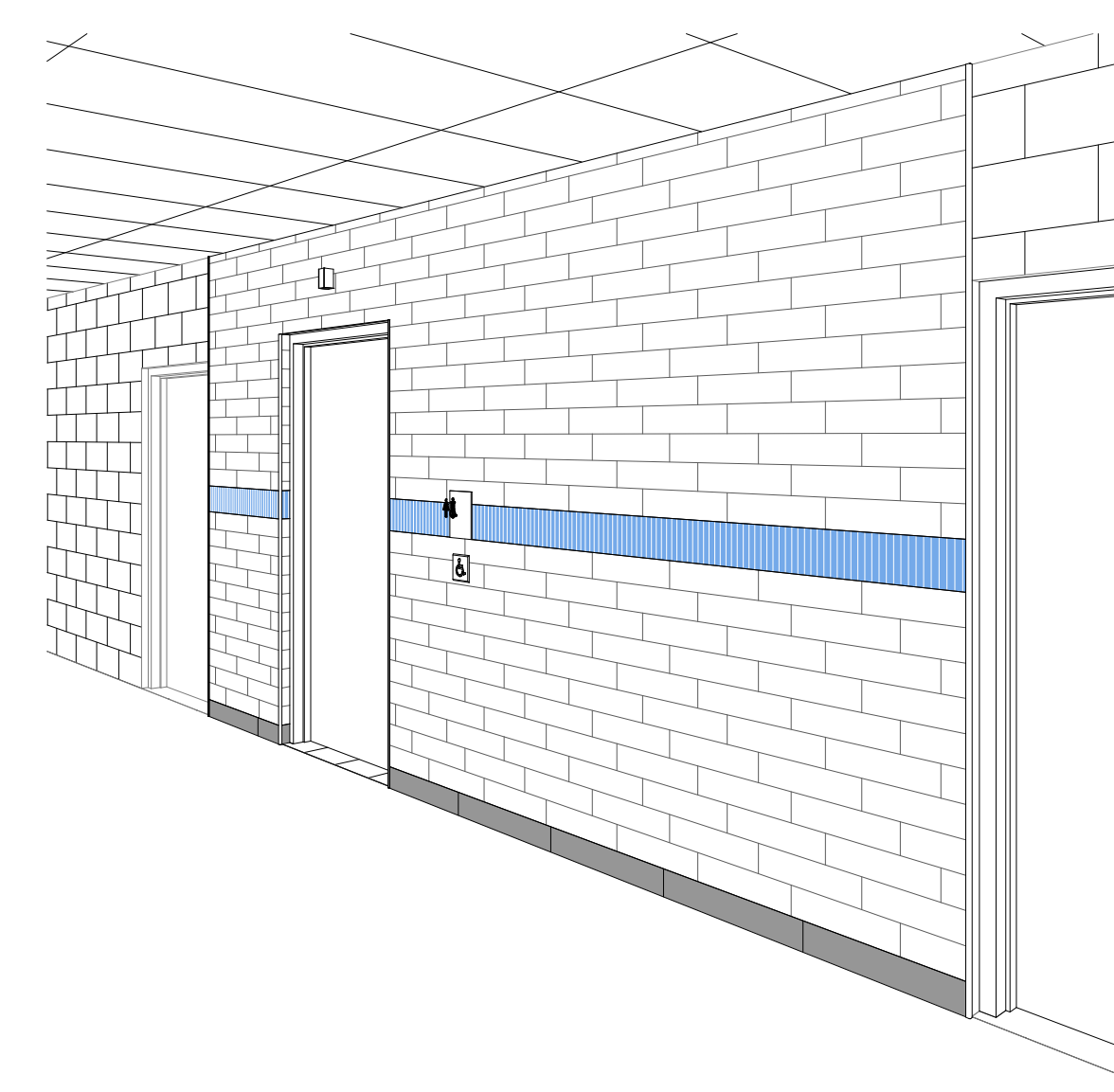
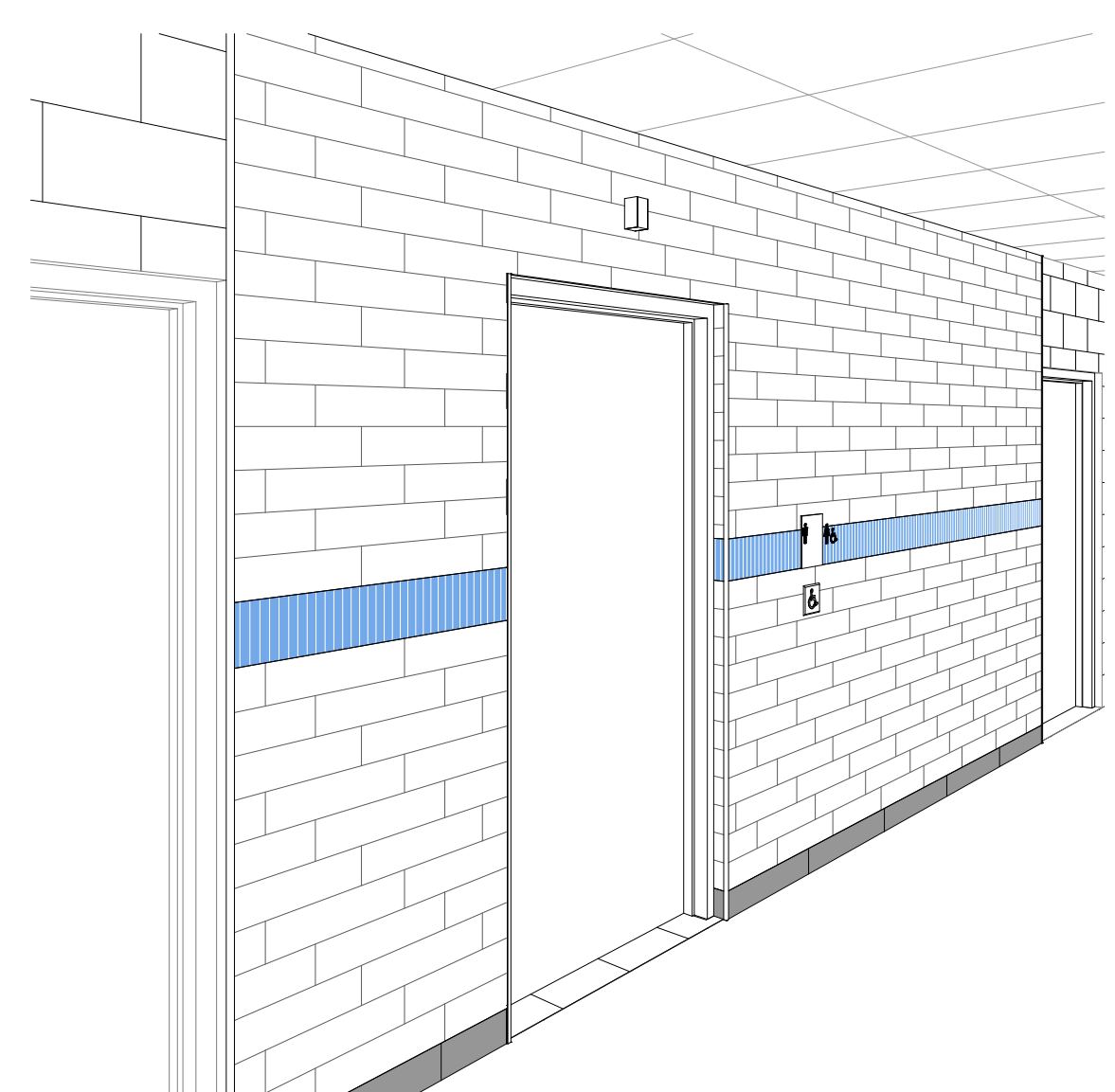




1 Keyplan
1:300

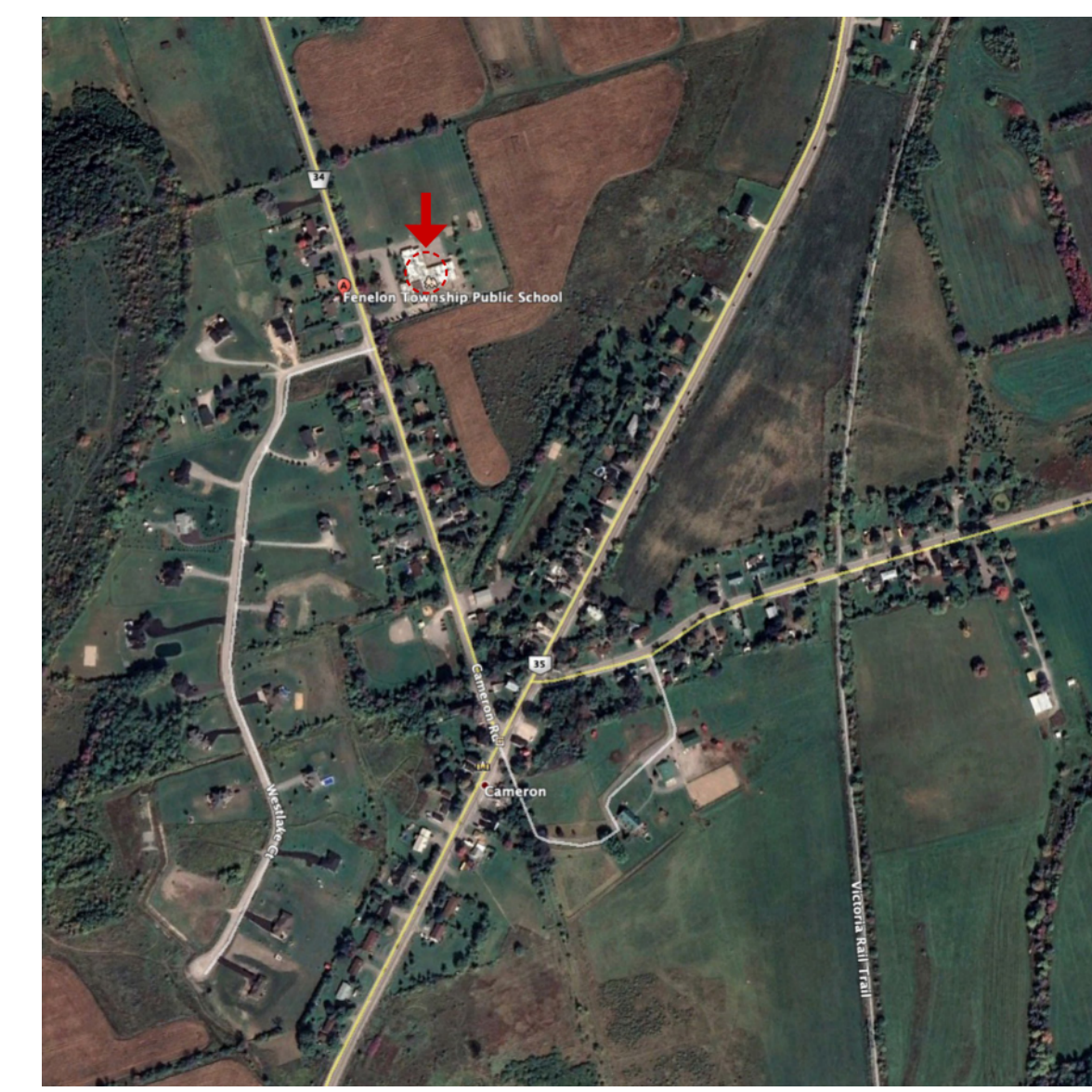


2 CORRIDOR PERSPECTIVE FROM SOUTH



3 CORRIDOR PERSPECTIVE FROM NORTH

LOCATION PLAN



Project Address: 50 Cameron Rd, Cameron, ON K0M 1G0

GENERAL NOTES

GENERAL NOTES COVER SHEET

1. THESE DRAWINGS FORM PART OF THE CONTRACT DOCUMENTS. REFER TO THE CONTRACT FOR THE COMPLETE LIST OF CONTRACT DOCUMENTS AND THEIR RELATED HIERARCHY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO READ AND UNDERSTAND THE CONTRACT DOCUMENTS IN THEIR ENTIRETY AND REQUEST CLARIFICATION FROM THE CONSULTANT WHERE NECESSARY.
2. THESE DRAWINGS, THE APPENDIX A - DETAIL BOOKLET, APPENDIX B - REFERENCE BOOKLET, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SPECIFICATION PROJECT MANUAL ARE TO BE READ IN CONJUNCTION WITH ONE ANOTHER IN THEIR ENTIRETY.
3. DRAWINGS ARE NOT TO BE SCALED. WHERE DIMENSIONS ARE IN QUESTION THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CONSULTANT BEFORE PROCEEDING.
4. KEYNOTES IN THE ARCHITECTURAL DRAWINGS ARE NUMBERED REFERENCES TO THE KEYNOTE LEGEND AND TO THE RELEVANT SPECIFICATION SECTION AND ARE TO BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
5. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL RETAIN ONE SET OF THE COMPLETE SET OF CONTRACT DOCUMENTS ON SITE AT ALL TIMES FOR REFERENCE INCLUDING ALL ADDENDA ISSUED DURING TENDER. ALL CLARIFICATIONS OR MODIFICATIONS ISSUED DURING CONSTRUCTION IN THE FORM OF SUPPLEMENTARY INSTRUCTIONS AND/OR CHANGE ORDERS/DIRECTIVES.
7. DETAIL BOOKLET. THE APPENDIX A AND B DETAIL BOOKLET CONTAINS CRITICAL INFORMATION FOR UNDERSTANDING THE WORK:
 - GUIDES FOR ABBREVIATIONS AND GRAPHIC LANGUAGE OF THE ARCHITECTURAL DRAWINGS
 - CODE REQUIRED MOUNTING HEIGHTS AND CLEARANCES
 - CONSTRUCTION ASSEMBLIES
 - TYPICAL DETAILS ORGANIZED BY DIVISION CATEGORY FOR CONCRETE, MASONRY, METALS, WOOD AND PLASTICS, MILLWORK, THERMAL AND MOISTURE AND FIRESTOPPING, DOORS AND WINDOWS, PARTITION ASSEMBLIES, FINISH DETAILS AND INFORMATION FOR WASHROOM ACCESSORIES.
 - STRUCTURAL DETAILS (REFER TO STRUCTURAL DRAWINGS FOR REFERENCES)

SOME OF THESE DETAILS ARE REFERENCED DIRECTLY FROM THE DRAWING SET OTHERS ARE REFERENCED BY THE TAG NUMBERING SYSTEM INDICATED ON THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE CONTENTS OF THE DETAIL BOOKLET AND PROVIDING THE APPROPRIATE TYPICAL DETAIL.

DIMENSIONING CONVENTIONS

DIMENSIONING CONVENTIONS

- A. ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS ARE CLEAR MEASUREMENTS TO FINISHED FACE UNLESS OTHERWISE NOTED.
- B. THE CONTRACTOR SHALL ENSURE ALL CODE REQUIRED MINIMUM CLEARANCES ARE MAINTAINED IN THE WORK. NOTIFY CONSULTANT WHERE CLEAR OR CRITICAL DIMENSIONS ARE DESIGNATED BUT CANNOT BE ACHIEVED FOR REVIEW AND DIRECTION.
- C. DRAWINGS ARE NOT TO BE SCALED. VERIFY ANY MISSING OR CONFLICTING DIMENSIONS WITH THE ARCHITECT/CONSULTANT PRIOR TO PROCEEDING WITH THE WORK.
- D. MAINTAIN CONSISTANT FINISHED FLOOR DATUM THROUGHOUT THE PROJECT AREA SUCH THAT DIMENSIONS INDICATED AS ABOVE FINISHED FLOOR (AFF) ARE REFERENCED FROM THE SAME DATUM TO MAINTAIN ALIGNMENT OF ELEMENTS HORIZONTALLY.
- E. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING WORK. REPORT ALL DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
- F. REFER TO APPENDIX A- DETAILS FOR TYPICAL MOUNTING HEIGHTS. BUILDING CODE REQUIRED MINIMUM CLEARANCES ARE TO BE MAINTAINED.

ARCHITECTURAL

#	Sheet
A000	Cover Sheet
A010	CODE COMPLIANCE and DEMOLITION
A200	Rm 119A NEW WORK
A900	Rm 119A FINISHES
APPENDIX A	DETAILS

STRUCTURAL

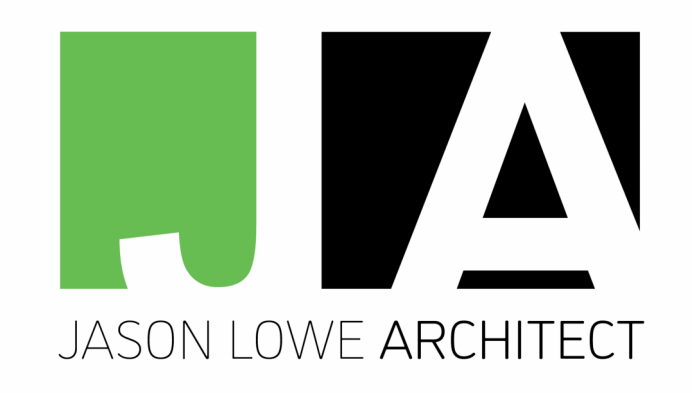
#	Sheet
G1	RFTB25-03 STRUCTURAL UPGRADE AND REPAIRS - GENERAL NOTES
S1	RFTB25-03 STRUCTURAL UPGRADE AND REPAIRS - ROOM 119A AND 122
S2	RFTB25-03 STRUCTURAL UPGRADE AND REPAIRS - CONSTRUCTION DETAILS

MECHANICAL

#	Sheet
M-01	LEGEND, DRAWING LIST, KEY PLAN, DETAILS & SCHEDULES - MECHANICAL
M-11	HVAC, PLUMBING & DRAINAGE LAYOUTS - MECHANICAL

ELECTRICAL

#	Sheet
E-01	LEGEND, KEY PLAN AND DETAILS - ELECTRICAL
E-02	ELECTRICAL LAYOUTS, PANEL SCHEDULE & DETAILS



ARCHITECTURE
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PH 1V7
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T: 705.571.1465
jason@jasonlowearchitect.com



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daniel.whelan@tldsbo.on.ca

RFTB25-03 Fenelon Township Public School Universal Washroom

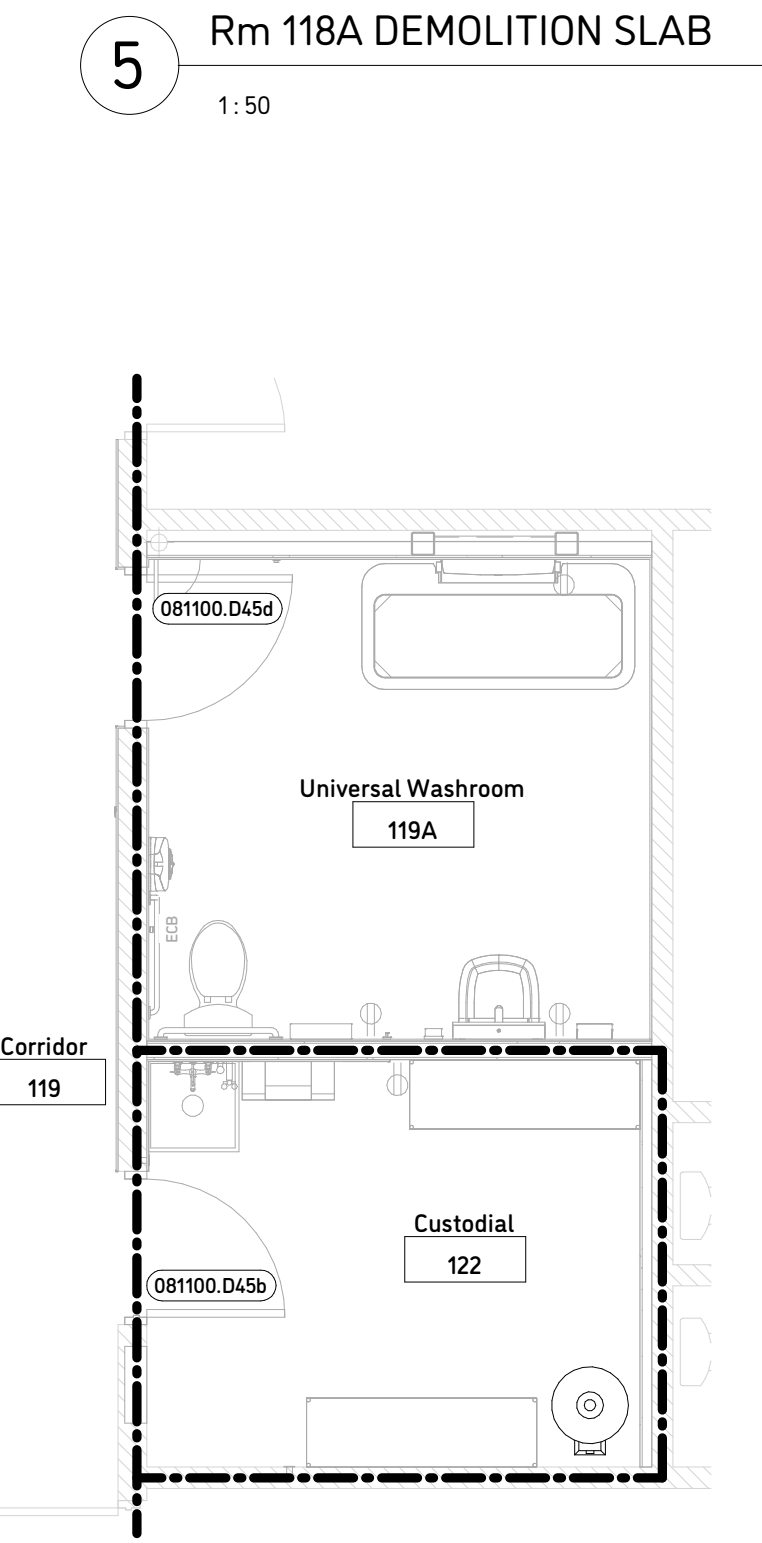
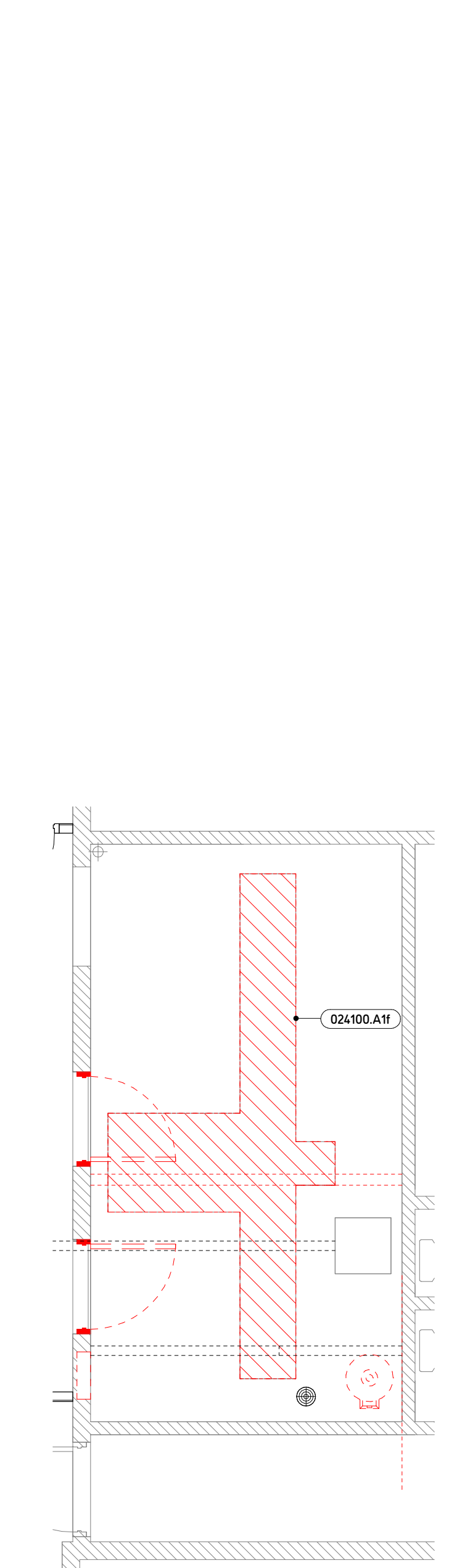
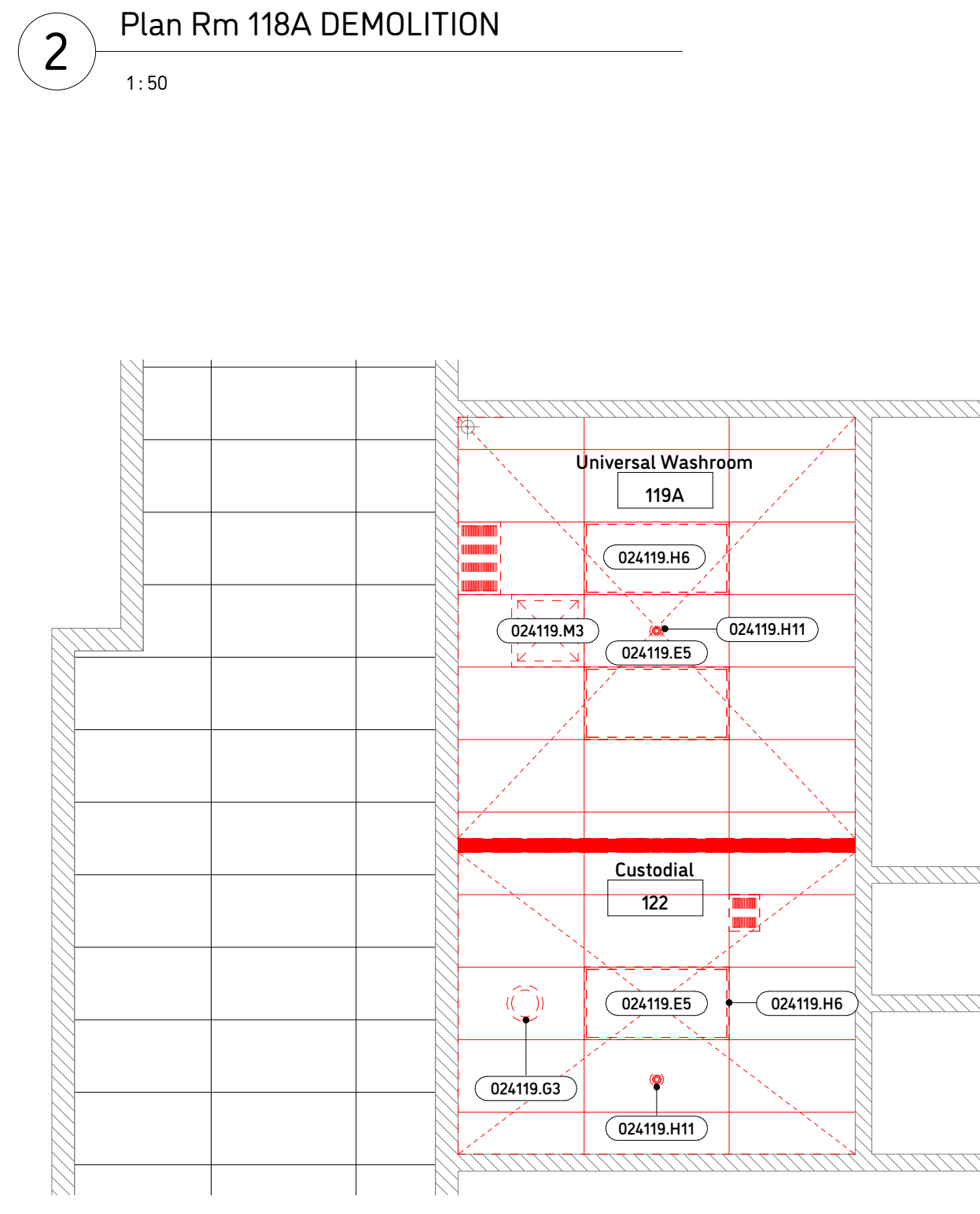
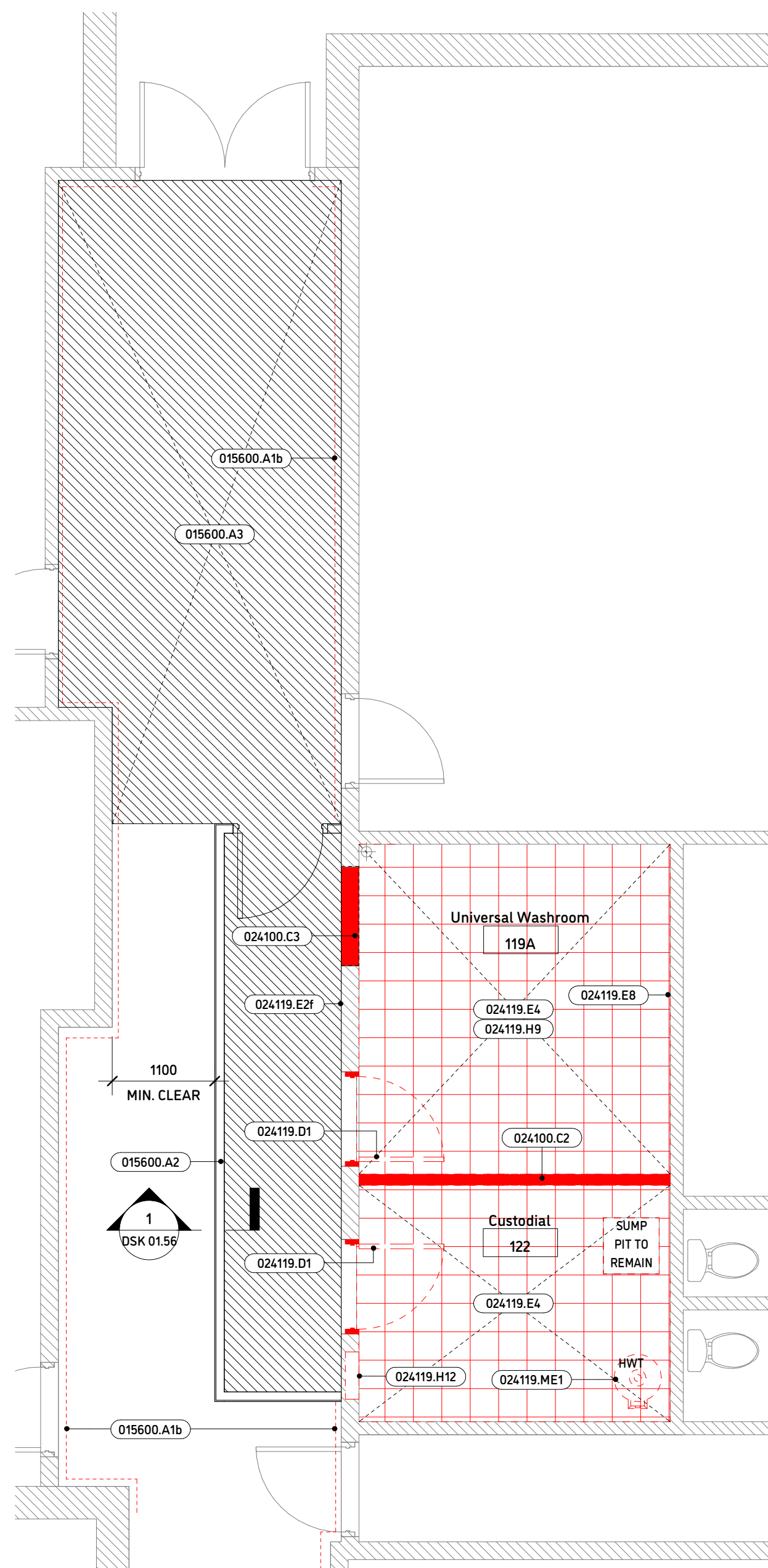
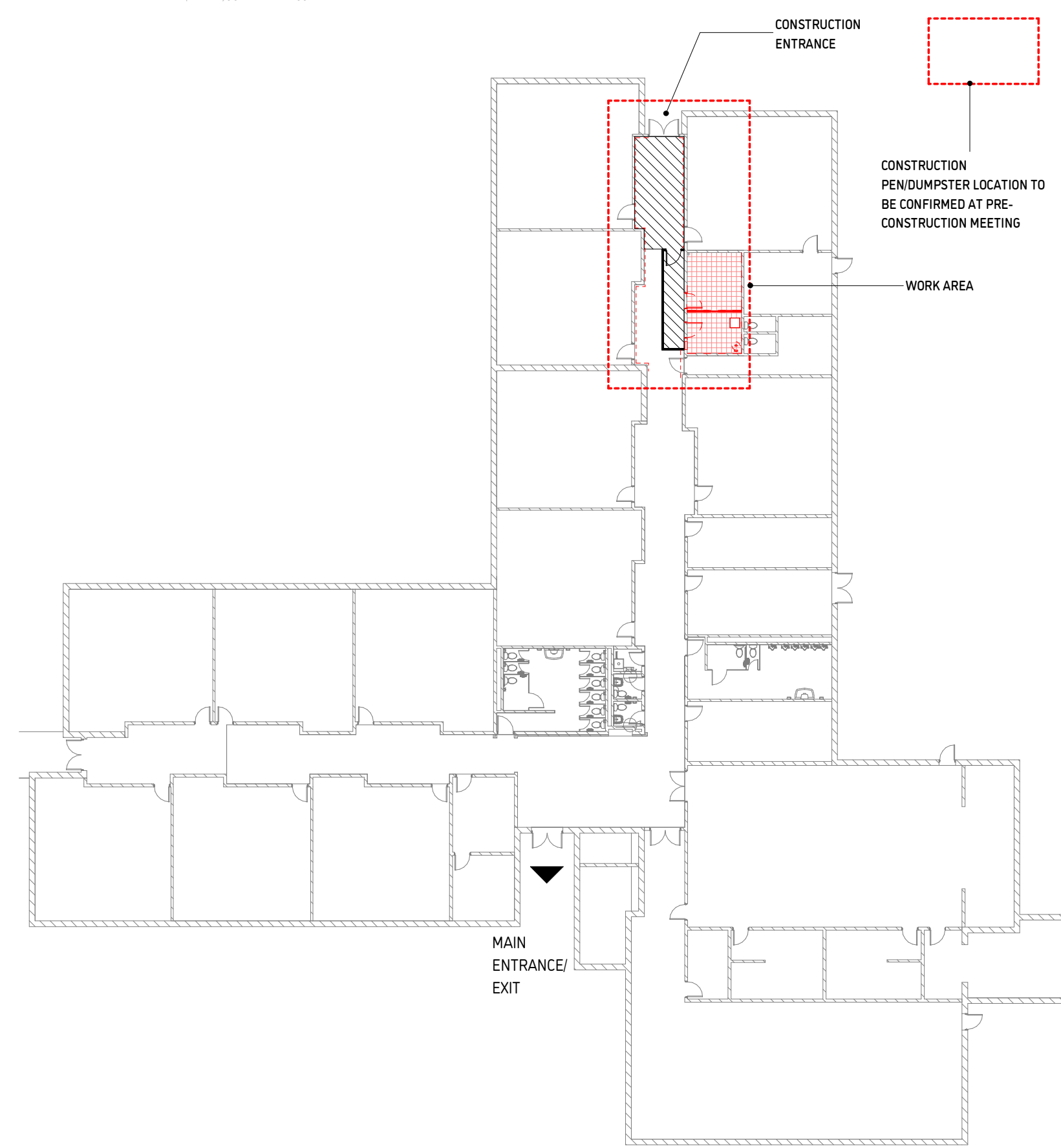
Cameron, Ontario

Issued for: TENDER and BUILDING PERMIT

MARCH 24, 2025

ONTARIO BUILDING CODE DATA MATRIX
PART 11

11.00	Building Code Version: O_Reg_163/24 Last Amendments: O_Reg_447/24	OBC Ref.
11.01	Project Type: <input type="checkbox"/> New <input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Change of Use <input type="checkbox"/> Addition and Renovation Description: WASHROOM RENOVATION	[A] 1.3.3.3B.
11.02	Major Occupancy Classification: Assembly (A2) Use: Elementary school	3.1.2.1.(1), 2.1.4.1.(1), and 11.2.1.
11.03	Superimposed Major Occupancies: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Description:	11.2, 3.2.2.5, to 3.2.2.8., and 2.2.1.
11.04	Building Area (m ²): No changes to building area	[A] 1.4.1.2., 11.2., and 11.3.
11.05	Building Height: 1 Storeys above grade 0 Storeys below grade Existing - no change	[A] 1.4.1.2., 3.2.1.1., 2.2.2.2., and 11.3.
11.06	Number of streets/Firefighter access: 1 street(s) Existing - no change	3.2.2.10., 3.2.5., 2.2.4.1., and 11.3.
11.07	Building size: <input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large	11.2.1.1., and T.11.2.1.1.B-N.
11.08	Existing Building Classification: Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable (no change of major occupancy) Construction Index: _____ Hazard Index: _____ Importance Category: <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-Disaster	10.1.1.2., 11.2.1.1, T.11.2.1.1.A, T.11.2.1.1.B to N, 4.1.2.1.(3), 2.3.1., and 5.2.2.1.(2)
11.09	Renovation Type: <input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1., and 11.3.3.2.
11.10	Occupant Load: Floor Level/Area Occ. Type Based On Occ. Load (Persons) Entire School A2 OTG (On the ground capacity/Design occupancy) 338 persons	3.1.17., 2.1.2.2., and 11.4.2.2.
11.11	Plumbing Fixture Requirements: Ratio: Male:Female = 50:50 Floor Level/Area Occupant Load OBC Reference Fixtures Required Fixtures Existing Fixtures Provided Entire School 338 F 169 3.7.4.3 (14) 7 10 11 (+1) M 169 3.7.4.3 (14) 6 9 10 (+1)	3.7.4., 11.3.4., 11.3.5., 11.4.2.4., and 11.4.2.5. Tables 3.8.2.3.A and 3.8.2.3.B
11.12	Barrier-free Design: <input checked="" type="checkbox"/> Yes Explanation: The new Universal Washroom will be barrier free. <input type="checkbox"/> No	11.3.1.2., 11.3.2., 11.3.3.2.
11.13	Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1, 11.4.2.2, 11.4.2.3, 11.4.2.4, 11.4.2.5, 11.4.2.6.
11.14	Compensating Construction: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes 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 systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.3.1, 11.4.3.2, 11.4.3.3, 11.4.3.4, 11.4.3.5, 11.4.3.6, 11.4.3.7.
11.14	Compliance Alternatives Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1
11.15	Notes: RESERVED	11.5.1

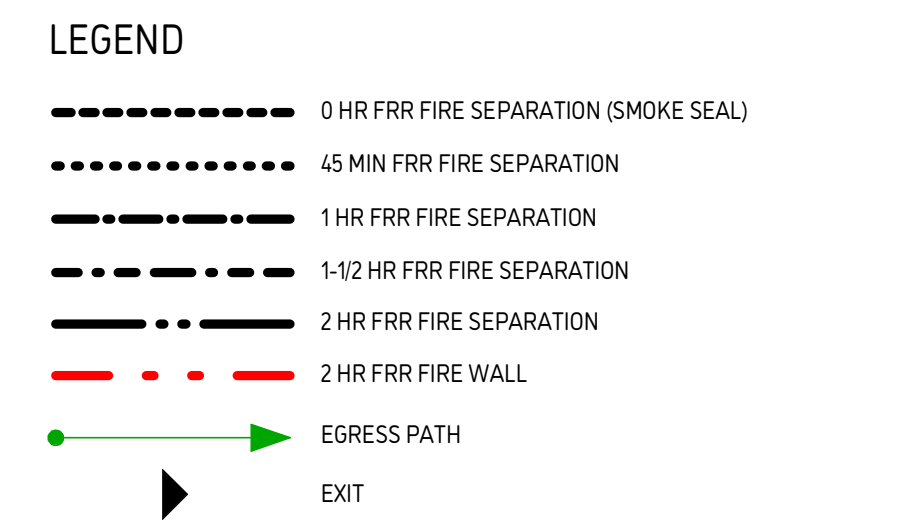


PRE-CONSTRUCTION REQUIREMENTS

- SITE REVIEWS.** REFER TO SPECIFICATION FOR LIST OF REQUIRED ON SITE REVIEWS THAT THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE CONSULTANT.
- DRAINAGE INSPECTIONS.** A PRE-CONSTRUCTION DRAINAGE INSPECTION HAS BEEN PERFORMED BY THE OWNER FOR THIS PROJECT. REFER TO OWNER'S PROVIDED INFORMATION IN THE RFT DOCUMENTATION. NOTE THAT POST-CONSTRUCTION DRAINAGE INSPECTIONS ARE A REQUIREMENT OF THE CONTRACT. REFER TO MECHANICAL FOR REQUIREMENTS.
- AIR FLOW TESTS.** A PRE-CONSTRUCTION AIR FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
- DOORS.** ALL DOOR AND DOOR FRAME DIMENSIONS TO BE CONFIRMED BY THE CONTRACTOR ON SITE PRIOR TO SHOP DRAWING PREPARATION. REPORT TO AND REQUEST CLARIFICATION FROM THE CONSULTANT ANY DISCREPANCIES.

DEMOLITION NOTES

- READ THESE DRAWINGS IN CONJUNCTION WITH NEW WORK AND ADDITIONAL DEMOLITION SCOPE DESCRIBED IN STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION ENGINEERING INCLUDING SHORING AND SCANNING OF EXISTING SLAB ON GRADE AND SUSPENDED SLABS TO PERFORM DEMOLITION WORK. REFER TO STRUCTURAL FOR FURTHER INFORMATION.
- DEMOLITION FLOOR PLAN DRAWINGS GENERALLY INDICATE THE EXISTING STATE OF THE EXISTING BUILDING. DIAGONAL HATCHED WALLS INDICATE APPROXIMATE EXTENT OF EXISTING CONSTRUCTION TO REMAIN UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, EXTENT OF DEMOLITION AND REMOVALS ON SITE PRIOR TO PROCEEDING WITH THE WORK.
- BROKEN, DASHED AND RED LINES AND HATCHES GENERALLY INDICATE REMOVALS. SCOPE TO INCLUDE REMOVALS AS REQUIRED TO ACHIEVE NEW WORK.
- PROVIDE TEMPORARY BRACING AND SHORING TO SUPPORT EXISTING CONSTRUCTION TO ALLOW FOR NEW CONSTRUCTION AS INDICATED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION ENGINEERING REQUIRED TO PERFORM WORK OF CONTRACT. REFER TO STRUCTURAL.
- REFER TO OWNER'S REQUIREMENTS FOR HAZARDOUS MATERIALS PROCEDURES.
- UPON REMOVAL OF WALL AND CEILING FINISHES THE CONTRACTOR IS TO EXAMINE ALL WALLS TO IDENTIFY ANY EXISTING DEFICIENCIES IN DESIGNATED FIRE SEPARATIONS AND BRING THEM TO THE ATTENTION OF THE CONSULTANT. REPAIR AND REINSTATEMENT OF FIRE SEPARATION/FIRE STOPPING INTEGRITY WILL BE ADDRESSED THROUGH CONTINGENCY ALLOWANCE.
- ACCESS DOORS. EXISTING ACCESS DOORS IN WALLS AND CEILING ARE TO BE NOTED AND DIMENSIONED IN PLAN BY CONTRACTOR ON AS-BUILTS AND COORDINATED WITH MECHANICAL AND ELECTRICAL TRADES FOR RE-USE IN NEW WORK IF REQUIRED. IF NOT REQUIRED NOTIFY CONSULTANT. ABANDONED ACCESS DOOR PENETRATIONS IN WALLS TO BE FILLED/REPAIRED AS REQUIRED TO SUPPORT NEW FINISH OVER.
- SLAB CUTTING AND UNDERSLAB DRAINAGE WORK. REFER TO MECHANICAL. SCOPE OF WORK TO INCLUDE DRAINAGE INSPECTION, VIDEO DOCUMENTATION AND REPORT OF EXISTING UNDERSLAB DRAINAGE SYSTEMS IN AREA OF WORK TO BE FORWARDED TO CONSULTANT PROMPTLY FOR REVIEW.
BID PRICE TO INCLUDE:
a) SELECTIVE AND CLEAN CUTTING AND REMOVAL OF SLAB TO ACHIEVE NEW WORK INDICATED IN MECHANICAL DRAWINGS AND SPECIFICATIONS.
b) ASSUME EXCAVATION/TRENCHING TO APPROXIMATELY 600mm BELOW SLAB TO EXPOSE UNDERSLAB DRAINAGE OR INSTALL NEW AS INDICATED IN THE MECHANICAL DRAWINGS.
c) BACKFILL. SUBSURFACE MATERIAL CONDITION IS TO BE REVIEWED BY CONSULTANT PRIOR TO BACKFILL. REFER TO STRUCTURAL FOR BACKFILL REQUIREMENTS.
d) NEW SLAB INFILL - REFER TO STRUCTURAL FOR DETAILS.
- HOARDING. REFER TO APPENDIX A: DETAILS FOR HOARDING DETAILS. CONTRACTOR TO PROVIDE PLYWOOD OR OTHER DUST-PROOF TYPE DOOR INTO EACH HOARDED ZONE. IF KEY IS REQUIRED FOR ACCESS, CONTRACTOR IS TO PROVIDE TLDSB ON-SITE STAFF WITH A KEY FOR ACCESS TO THE WORK SITE(S) AT ALL TIMES.
- WASHROOM ACCESSORIES. IN GENERAL ALL WASHROOM ACCESSORIES TO BE REMOVED UNLESS OTHERWISE NOTED.
- CEILING GRIDS. UNLESS NOTED OR DIMENSIONED OTHERWISE NEW CEILING GRIDS HAVE BEEN LOCATED TO MATCH EXISTING GRID LAYOUTS TO MAINTAIN EXISTING RELATIONSHIPS TO DUCTWORK, SUPPORTS ETC. CONTRACTOR TO LOCATE AN EXISTING GRID T REFERENCE POINT PRIOR TO DEMOLITION FOR LAYOUT OF NEW GRID AS REQUIRED.
- PROTECTION. ALL EXISTING TO REMAIN FLOOR, WALL AND CEILING FINISHES AND ANY FIXTURES TO REMAIN ARE TO BE PROTECTED FOR THE DURATION OF CONSTRUCTION WITH PLYWOOD, RAM BOARD, FOAM CORNER GUARDS OR OTHER APPROPRIATE MEANS PROVIDED AND MAINTAINED BY THE CONTRACTOR.



GENERAL NOTES - CODE COMPLIANCE

- CODE COMPLIANCE - GENERAL NOTES
- ALL WORK TO BE PERFORMED IN COMPLIANCE WITH THE CURRENT ONTARIO BUILDING CODE 2012 AND THE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
 - FOR GENERAL NOTES, SYMBOLS AND ARCHITECTURAL ABBREVIATIONS REFER TO APPENDIX A: DETAILS.
 - FIRE SEPARATION CONTINUITY. INDICATED FIRE SEPARATIONS AND ASSEMBLIES ARE TO BE CONTINUOUS AND UNINTERRUPTED AT FLOOR, WALL AND ROOF JUNCTIONS. CONDITION OF EXISTING FIRE SEPARATIONS TO BE REVIEWED WITH ARCHITECT ONCE EXPOSED AT THE COMPLETION OF DEMOLITION.
 - FIRE SEPARATIONS/FIRE STOPPING. ALL NEW AND EXISTING PENETRATIONS THROUGH WALLS, FLOORS AND/OR CEILINGS DESIGNATED AS FIRE SEPARATIONS, NEW OR EXISTING EXPOSED DURING DEMOLITION, SHALL BE FIRE STOPPED AND SMOKE SEALED USING ULTC TESTED AND APPROVED SYSTEMS. PATCH AND REPAIR ALL FIRE STOPPING AT BUILDING STRUCTURE WHERE MISSING OR DAMAGED TO MAINTAIN REQUIRED FIRE RATING. SEE DRAWING A010. REFER TO SPECIFICATION SECTIONS 01 33 00 AND 07 84 00.
 - MOUNTING HEIGHTS. REFER TO APPENDIX A: DETAIL BOOKLET FOR CODE REQUIRED BARRIER FREE MOUNTING HEIGHTS FOR ALL PLUMBING AND WASHROOM FIXTURES, ACCESSORIES AND DOOR CONTROLS.
 - CLEARANCES. CODE REQUIRED CLEARANCES ARE INDICATED BY DIMENSIONS IN PLAN AND ARE TO FINISHED FACES AND MUST BE MAINTAINED IN THE COMPLETED WORK.
 - SERVICE PENETRATIONS IN FIRE SEPARATIONS. COORDINATE ALL SERVICE PENETRATIONS, FIRE DAMPERS IN FIRE SEPARATIONS WITH MECHANICAL AND ELECTRICAL SCOPE.
 - CLOSURES. REFER TO DOOR SCHEDULE, APPENDIX A AND THE SPECIFICATIONS FOR REQUIRED RATED DOORS, FRAMES AND RELATED HARDWARE.

KEYNOTES

Key Value	Keynote Text
015600.A1b	TEMPORARY PROTECTIVE WALL COVER. Provide Poly sheet protection over existing wall finish during entire duration of construction. Attach so as not to damage existing finish.
015600.A2	HOARDING. Provide dustproof hoarding around local job area for duration of project. Refer to Appendix A: Details for further information. Provide plywood access door c/w hardware to secure jobsite from entry by students. If lock provided ensure that Owner is provided with a key on site for access at all times to the construction area. Ensure minimum 1100mm clear in corridors to maintain means of egress.
015600.A3	TEMPORARY FLOOR PROTECTION. Provide and maintain "Ram Board" protection over existing floor finish during entire duration of construction. Attach so as not to damage existing finish.
024100.A1f	SLAB ON GRADE. Refer to mechanical for new plumbing requirements. Provide all scanning, sawcutting and removal of entire or portions of existing slab on grade, excavation and trenching (assume 600mm deep) of existing below slab material to achieve below slab drainage installations as indicated in the mechanical drawings. Refer to structural for scanning, backfill, compaction, underpinning of adjacent walls and repair/replacement of slab on grade requirements. Refer to mechanical for post construction inspection, video and report requirements.
024100.C2	ASSUMED STEEL STUD/WOOD PARTITION. Remove completely to accommodate new work.
024100.C3	NEW OPENING. Remove portion of wall as required to accommodate new work. Refer to structural for new lintel requirements. Provide engineered shoring as required.
024119.D1	DOOR. Remove existing door, frame and related hardware.
024119.E2f	TILE FINISH. Remove existing tile base to accommodate new tile base. Refer to elevations for extent of new finish to guide removals.
024119.E4	VINYL COMPOSITE TILE (VCT). Remove existing VCT, scrape/remove all adhesive to expose clean substrate ready for new work.
024119.E5	ACOUSTIC TILE CEILING (ACT). Remove existing acoustic tile ceiling tiles and grid system. Retain existing hangers if in reusable condition for new work. Note: In most instances new tile layout has been designed to match original grid location to suit existing duct supply/exhaust locations. Contractor to retain grid location in new work where applicable. Refer to Mechanical and Electrical drawings for ceiling fixture/services removals.
024119.E8	RUBBER BASE. Remove existing rubber base and prepare substrate for new finish.
024119.G3	EXHAUST GRILLES and FANS. Remove as indicated in mechanical drawings.
024119.H6	LIGHT FIXTURES. Remove all existing light fixtures. Refer to Electrical for complete removal scope.
024119.H9	ELECTRICAL CONDUIT. Remove all exposed electrical conduit. Refer to Electrical for complete removal/relocation scope.
024119.H11	FIRE ALARM DEVICES. Refer to electrical for removals. Coordinate disconnection with Owner prior to removal.
024119.H12	ELECTRICAL PANEL. Refer to electrical for removals. Coordinate disconnection with Owner prior to removal.
024119.M3	Refer to Mechanical for Removals
024119.ME1	Refer to Mechanical and Electrical for Removals
081100.D45b	New 45 Min FRR door and frame c/w door closer.
081100.D45d	New 45 Min FRR door and frame c/w power door operator.



20 SOUTH DUFFERIN ST HUNTSVILLE ONTARIO P1H 1V7

RFTB25-03 Fenelon
Township Public
School Universal
Washroom

Cameron, Ontario

Issued for:
**TENDER and
BUILDING PERMIT**

MARCH 24, 2025



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DATE: 3/24/2025 8:37:02 AM
PROJECT NO: RFTB25-03
DRAWN: JL
CHECKED: JL

Revisions
Description Date

CODE COMPLIANCE
and DEMOLITION

Sheet
A010

RFTB25-03 Fenelon Township Public School Universal Washroom

Cameron, Ontario

Issued for:
TENDER and BUILDING PERMIT

MARCH 24, 2025

Seal



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DATE: 3/24/2025 8:37:03 AM

PROJECT NO: RFTB25-03

DRAWN:

CHECKED: Checker

Revisions

Description Date

Title
Rm 118A NEW WORK

Sheet

A200

KEYNOTES

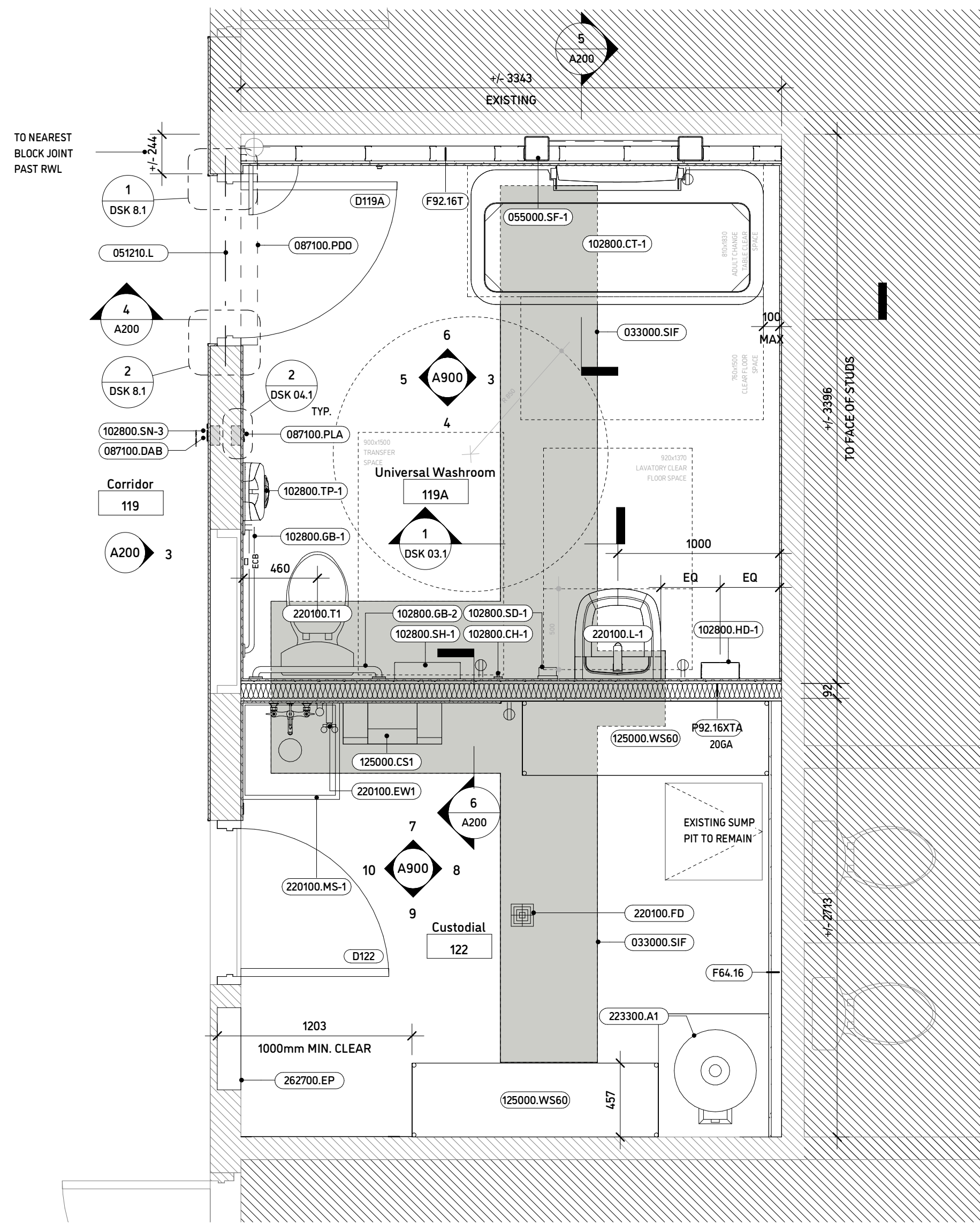
Key Value	Keynote Text
033000.SIF	SLAB INFILL. Refer to structural for details.
051210.L	New Intel - refer to structural
055000.SF-1	Change table support frame. Refer to structural drawings.
078400.PFP	PREFABRICATED FIRE PROTECTION. Prefabricated fire protection enclosure above fixture.
087100.AR	ASSISTANCE REQUIRED DOME LIGHT. Refer also to Electrical.
087100.DAB	DOOR ACTUATOR BUTTON (Refer also to Electrical)
087100.PDO	POWER DOOR OPERATOR with hold open function. (Refer also to Electrical)
087100.PLA	Combined Push to lock and Door Actuator button (Refer also to Electrical)
102800.CH-1	COAT HOOK
102800.CT-1	ADULT CHANGE TABLE
102800.GB-1	GRAB BAR - Stainless Steel, 90 Degree peened grip
102800.GB-2	GRAB BAR - Stainless Steel 24" Straight peened grip
102800.HD-1	HAND DRYER. Contractor to provide hand dryer and coordinate installation with Electrical trade. Refer to electrical for power supply.
102800.SD-1	SOAP DISPENSER supply by Owner install by Contractor
102800.SH-1	SHELF - Stainless Steel
102800.SN-3	SIGN Universal Washroom
102800.TP-1	TOILET PAPER HOLDER supply by Owner install by Contractor
125000.CS1	CHEMICAL MIXING STATION supplied by Owner installed by Contractor. Refer to Mechanical for connections
125000.WS60	WIRE SHELVING 60"x72"
220100.EW1	EYE WASH STATION Refer to Mechanical
220100.FD	FLOOR DRAIN. Refer to mechanical.
220100.L-1	LAVATORY. Refer to mechanical.
220100.MS-1	MOP SINK MS-1. Refer to mechanical.
220100.T1	TOILET T-1. Refer to mechanical.
223300.A1	HOT WATER TANK. Refer to mechanical and electrical.
233000.EX	EXHAUST GRILLE. Refer to mechanical.
233000.SAD	SUPPLY AIR DIFFUSER. Refer to mechanical.
262700.EP	ELECTRICAL PANEL. Refer to electrical.
265000.F1	LIGHT FIXTURE F1 Refer to Electrical
265000.L3a	LIGHT FIXTURE L3a Refer to Electrical
265300.BU	EMERGENCY LIGHT w/ battery unit Refer to Electrical
265300.BUR	EMERGENCY LIGHT remote unit Refer to Electrical
271516.PA	PUBLIC ADDRESS SPEAKER. Refer to electrical.
283000.FAS	FIRE ALARM STROBE. Refer to electrical.
283000.SD	FIRE ALARM SMOKE DETECTOR. Where protecting a rated door locate max. 1500 from opening. Refer to electrical.

GENERAL NOTES - FLOOR PLAN

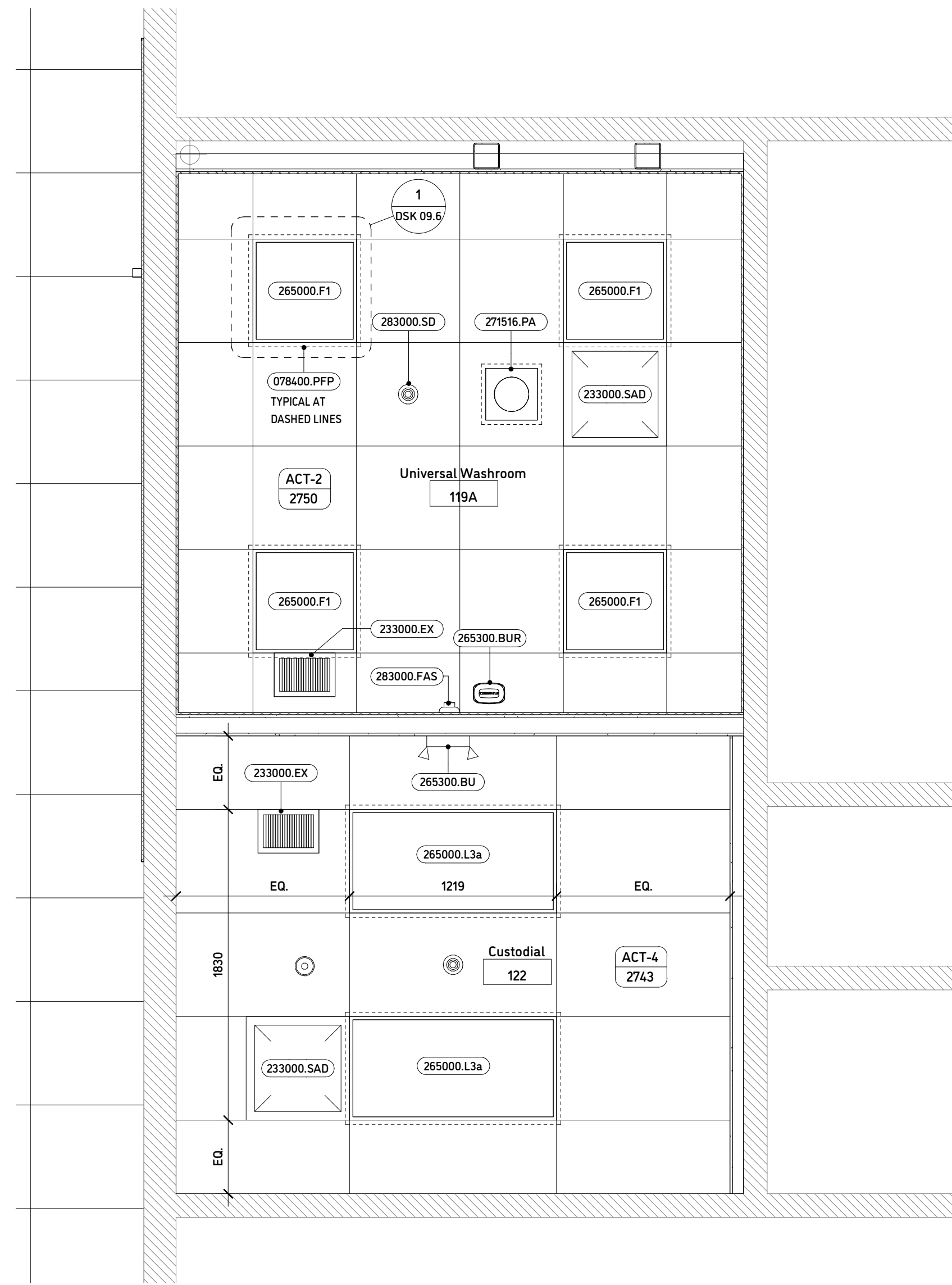
1. ALL WORK SHALL COMPLY WITH THE LATEST VERSION OF THE ONTARIO BUILDING CODE, REFERENCED STANDARDS, AND MANUFACTURER'S INSTRUCTIONS.
2. ALL DRAWINGS SHALL BE FULLY COORDINATED BY CONTRACTOR TO VERIFY ALL DIMENSIONS AND WORK BY ALL TRADES.
3. COORDINATE LOCATIONS OF NEW FLOOR, WALL AND ROOF OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND LATEST REVIEWED SHOP DRAWINGS.
4. THE CONTRACT DOCUMENTS ARE TO BE READ AS A WHOLE. REFER TO CONTRACT FOR HIERARCHY OF INFORMATION. ARCHITECTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. WHERE CONFLICTS ARE ENCOUNTERED BETWEEN DISCIPLINES THE CONTRACTOR IS TO REQUEST CLARIFICATION FROM THE CONSULTANT IN WRITING.
5. DETAILS AND SECTIONS ON THE DRAWINGS ARE INDICATED AT SPECIFIC LOCATIONS. DETAILS NOTED "TYPICAL" OR "TYP" IMPLY SIMILAR CONDITIONS TO BE TREATED SIMILARLY. MODIFICATIONS TO BE MADE BY CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS. WHERE SIGNIFICANT DIFFERENCES ARE ENCOUNTERED DUE TO SITE CONDITION CONTACT CONSULTANT FOR REVIEW AND DIRECTION PRIOR TO PROCEEDING.
6. FIRE SEPARATIONS/FIRE STOPPING. ALL NEW AND EXISTING PENETRATIONS THROUGH WALLS, FLOORS AND/OR CEILINGS DESIGNATED AS FIRE SEPARATIONS, NEW OR EXISTING EXPOSED DURING DEMOLITION, SHALL BE FIRE STOPPED AND SMOKE SEALED USING ULC TESTED AND APPROVED SYSTEMS. PATCH AND REPAIR ALL FIRE PROOFING AT BUILDING STRUCTURE WHERE MISSING OR DAMAGED TO MAINTAIN REQUIRED FIRE RATING. SEE DRAWING A010. REFER TO SPECIFICATION SECTIONS 0133 00 AND 07 84. 00.
7. COORDINATE AND SEQUENCE INSTALLATION OF ALL BLOCKING REQUIRED BY NEW WORK WITH ELEVATIONS AND DETAILS.
8. ACCESS PANELS/DOORS. NOT ALL REQUIRED OR EXISTING ACCESS PANELS, DOORS OR COVERS MAY BE INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE ACCESS DOOR AND PANEL REQUIREMENTS WITH APPROPRIATE TRADES. WHERE CONFLICTS ARISE REQUEST CLARIFICATION FROM CONSULTANT.
9. FLOOR DRAINS. REFER TO MECHANICAL. WHERE EXISTING FLOOR DRAINS ARE POSITIONED HIGH IN NEW WORK ALLOW FOR LOCAL SLAB CHIPPING AND FLOOR LEVELING TO SUIT SLOPE OR FLUSH TO NEW FINISHES INSTALL OF NEW DRAIN BODY.
10. FLOOR FINISHES. FLOOR FINISHES ARE NOT INDICATED ON GENERAL FLOOR PLANS FOR CLARITY. REFER TO FLOOR FINISH PLAN(S) FOR FLOOR FINISH INFORMATION, TILE PATTERNS AND RELATED INFORMATION.
11. CEILING GRIDS. UNLESS NOTED OR DIMENSIONED OTHERWISE NEW CEILING GRIDS HAVE BEEN LOCATED TO MATCH EXISTING GRID LAYOUTS TO MAINTAIN EXISTING RELATIONSHIPS TO DUCTWORK, SUPPORTS ETC. CONTRACTOR TO LOCATE AN EXISTING GRID T REFERENCE POINT PRIOR TO DEMOLITION FOR LAYOUT OF NEW GRID AS REQUIRED.
12. REFER TO APPENDIX A DSK 09 SERIES FOR CONSTRUCTION ASSEMBLIES.

DIMENSIONING CONVENTIONS

- DIMENSIONING CONVENTIONS
- A. ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS ARE CLEAR MEASUREMENTS TO FINISHED FACE UNLESS OTHERWISE NOTED.
 - B. THE CONTRACTOR SHALL ENSURE ALL CODE REQUIRED MINIMUM CLEARANCES ARE MAINTAINED IN THE WORK. NOTIFY CONSULTANT WHERE CLEAR OR CRITICAL DIMENSIONS ARE DESIGNATED BUT CANNOT BE ACHIEVED FOR REVIEW AND DIRECTION.
 - C. DRAWINGS ARE NOT TO BE SCALED. VERIFY ANY MISSING OR CONFLICTING DIMENSIONS WITH THE ARCHITECT/CONSULTANT PRIOR TO PROCEEDING WITH THE WORK.
 - D. MAINTAIN CONSISTANT FINISHED FLOOR DATUM THROUGHOUT THE PROJECT AREA SUCH THAT DIMENSIONS INDICATED AS ABOVE FINISHED FLOOR (AFF) ARE REFERENCED FROM THE SAME DATUM TO MAINTAIN ALIGNMENT OF ELEMENTS HORIZONTALLY.
 - E. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING WORK. REPORT ALL DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
 - F. REFER TO APPENDIX A. DETAILS FOR TYPICAL MOUNTING HEIGHTS. BUILDING CODE REQUIRED MINIMUM CLEARANCES ARE TO BE MAINTAINED.



1 Floor Plan Rm 118A NEW WORK
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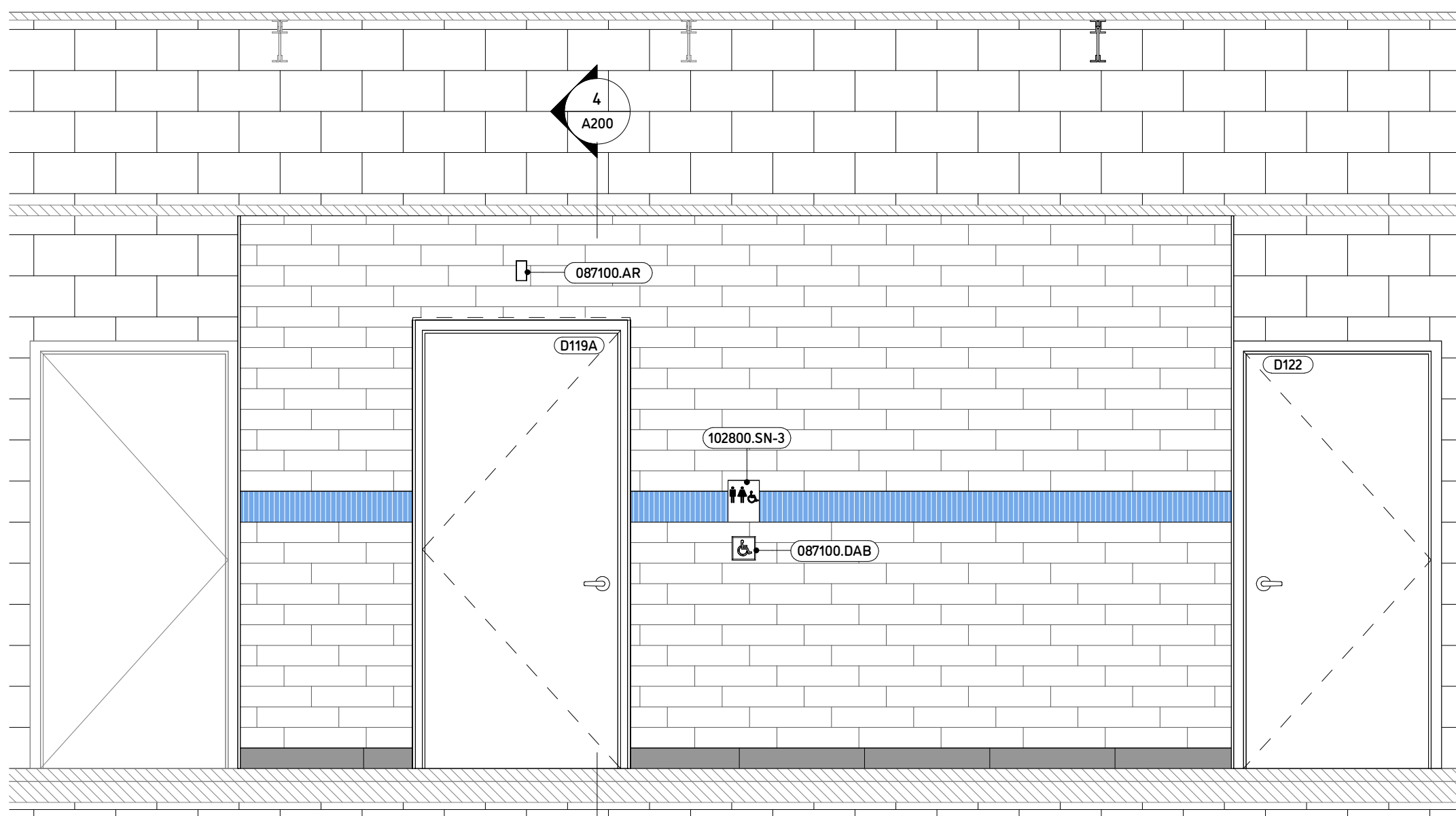
2 RCP Rm 129 NEW WORK
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DOOR SCHEDULE

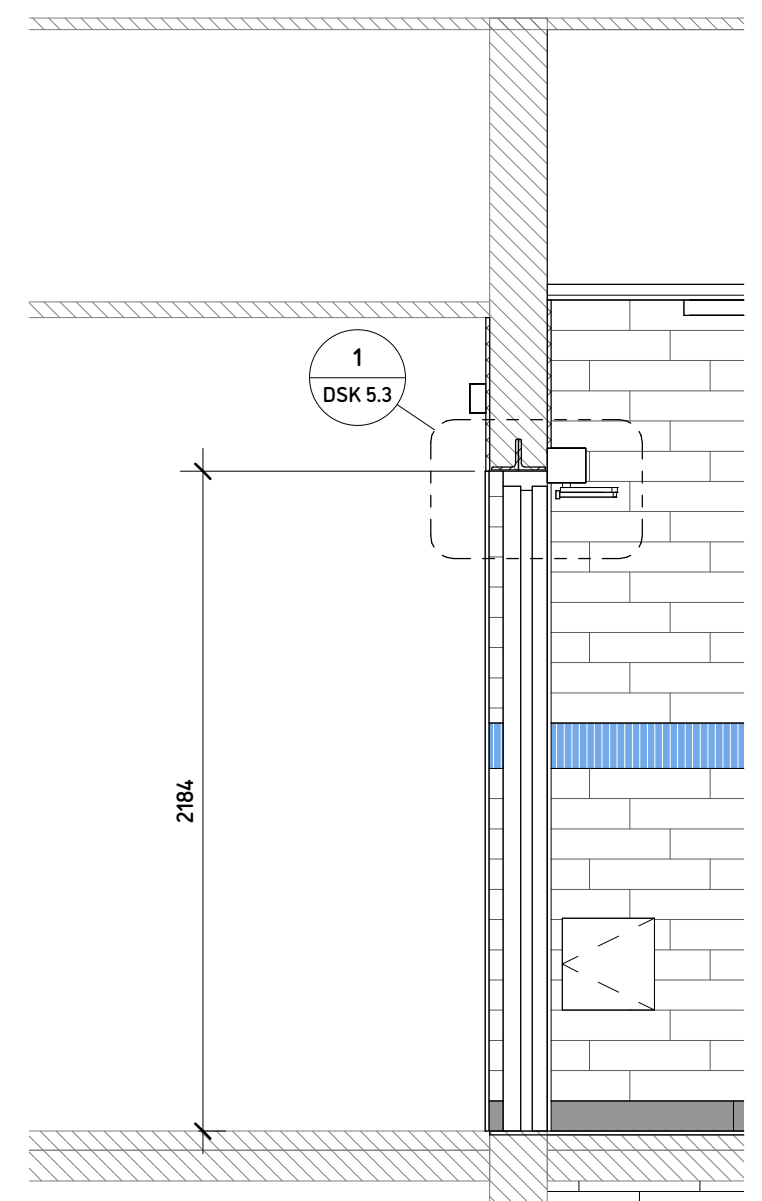
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D119A	Corridor	119 Universal Washroom	119A	965	2134	50	HM	PME	F1	PSF	PME	HG #2	45 MIN	New Construction	B
D122	Corridor	119 Custodial	122	914	2032	50	HM	PME	F1	PSF	PME	HG #4	45 MIN	New Construction	A, B

DOOR SCHEDULE - NOTES

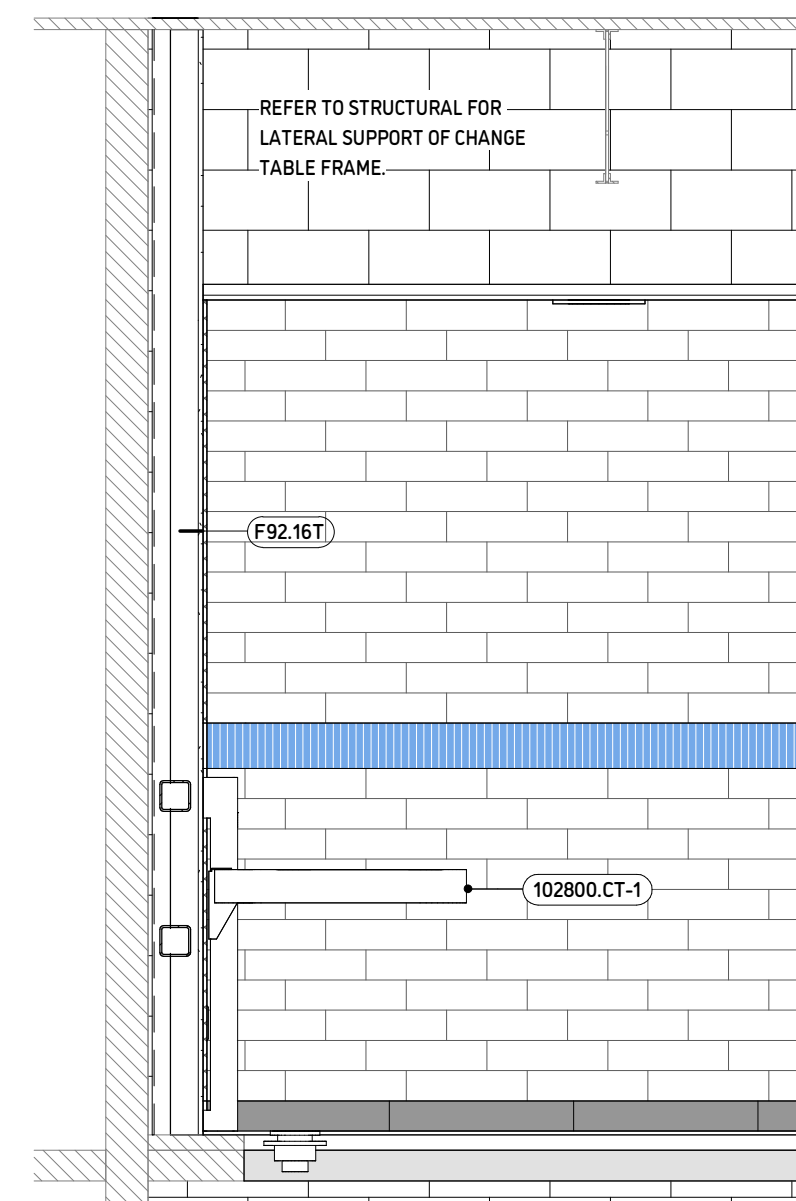
REFER TO DOOR SCHEDULE FOR APPLICABLE NOTE(S)
REFER TO APPENDIX A. DETAILS FOR ADDITIONAL DOOR AND FRAME INFORMATION
A. CONTRACTOR TO CONFIRM EXISTING DOOR AND FRAME DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.
B. DOOR AND FRAMES TO RECEIVE PAINT FINISH TO MATCH EXISTING SCHOOL COLOUR SCHEME.



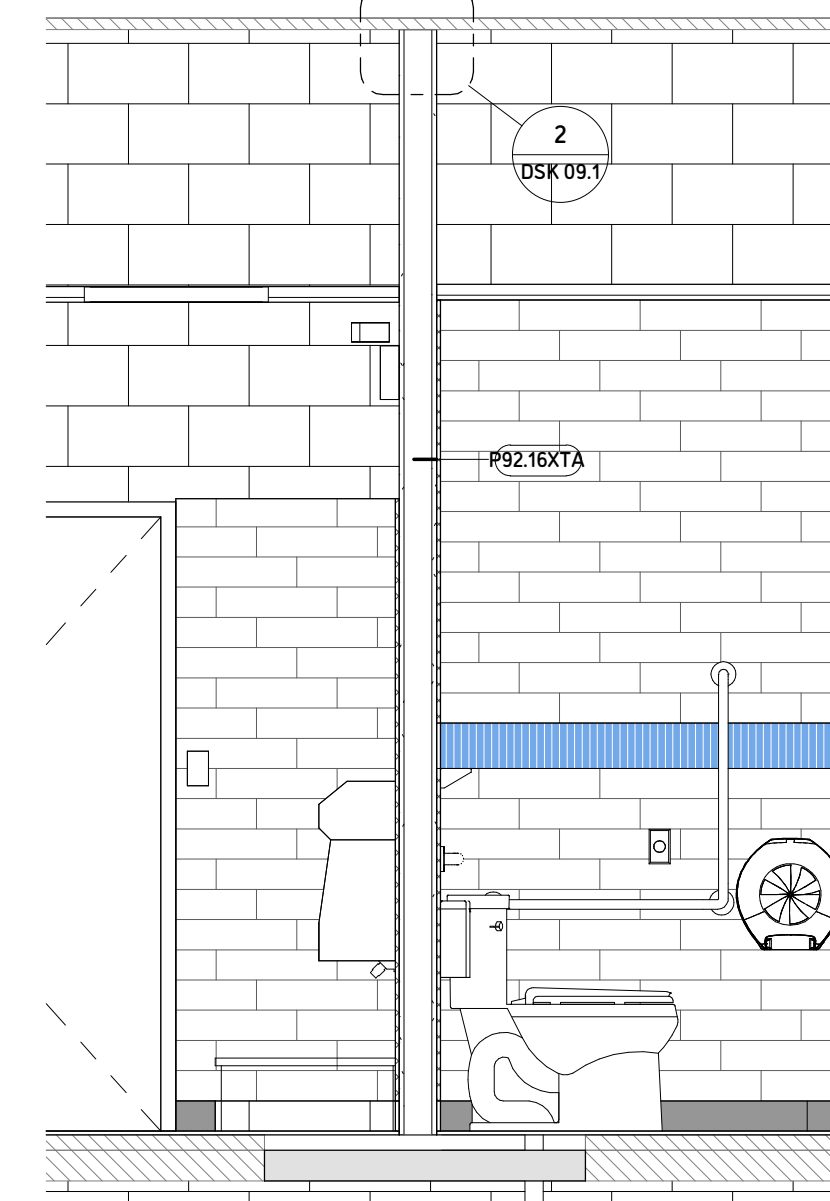
3 Rm 119 Corridor East
1:25



4 SECTION - NEW DOOR OPENING
1:25



5 SECTION - ADULT CHANGE TABLE
1:25



6 SECTION - NEW PARTITION
1:25

**RFTB25-03 Fenelon
Township Public
School Universal
Washroom**

Cameron, Ontario

Issued for:
**TENDER and
BUILDING PERMIT**

MARCH 24, 2025

Seal



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DATE: 3/24/2025 8:37:05 AM
PROJECT NO: RFTB25-03
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CHECKED: Checker
Revisions
Description Date

Tile
Rm 118A FINISHES

Sheet

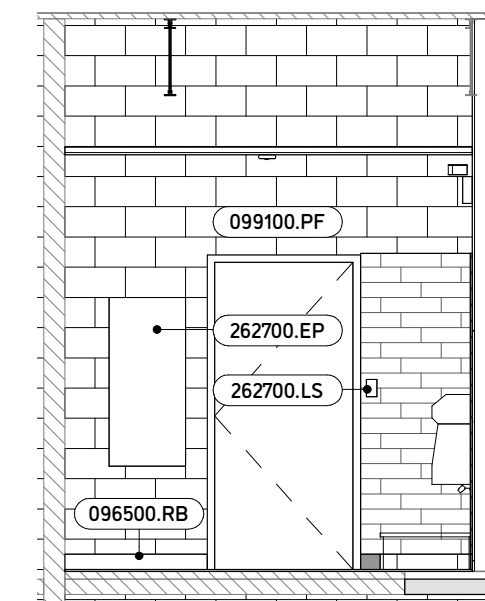
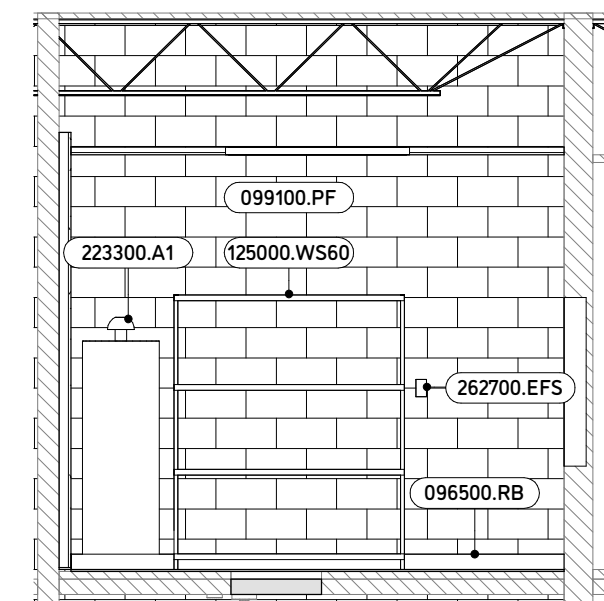
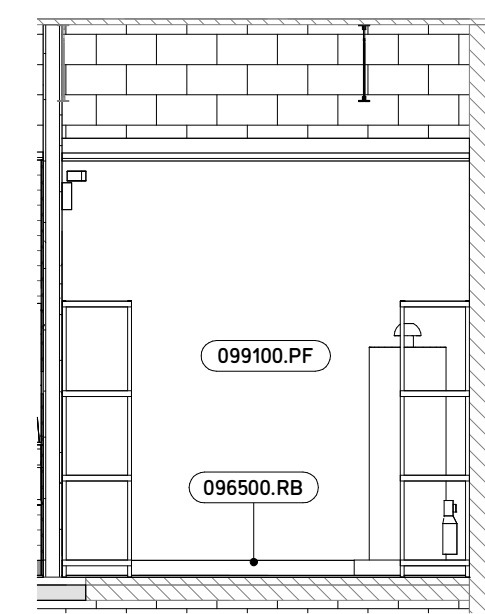
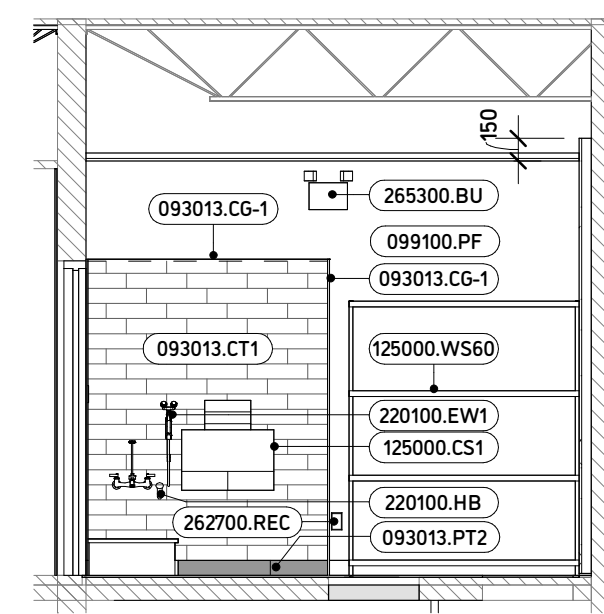
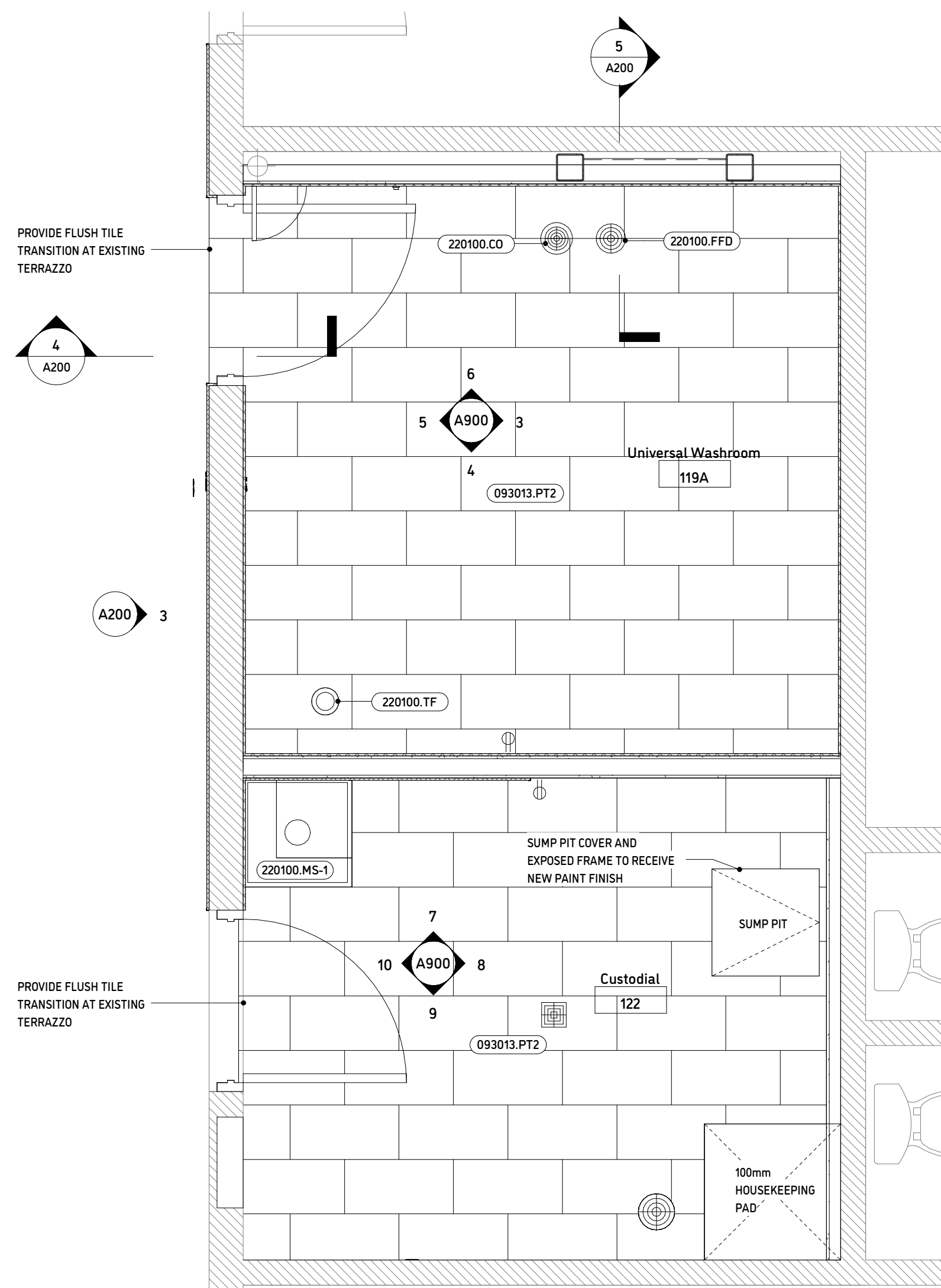
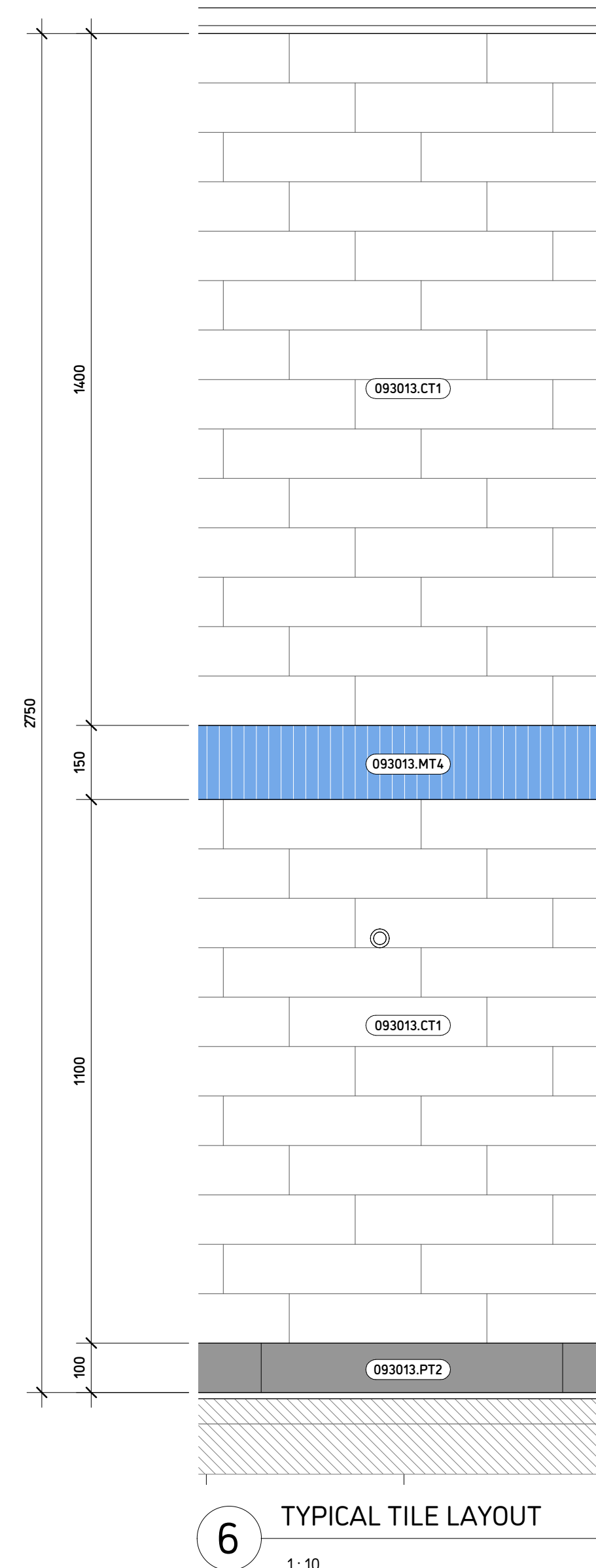
A900

FINISHES - GENERAL NOTES

- TILE PRE-INSTALLATION MEETING. A PRE-INSTALLATION MEETING IS TO BE COORDINATED BY THE CONTRACTOR AND THEIR TILE TRADE(S), THE ARCHITECT AND THE OWNER PRIOR TO COMMENCING TILE INSTALLATION. REFER TO SPECIFICATION SECTION 01 31 19 FOR FURTHER INFORMATION.
- KEYNOTE NUMBERS RELATE TO THE SPECIFICATION SECTIONS - REFER TO APPROPRIATE SPECIFICATION SECTION FOR FURTHER INFORMATION.
- FIXTURES AND ACCESSORIES HAVE BEEN REMOVED FROM VIEW IN FINISH PLANS FOR CLARITY. REFER TO A200 SERIES FLOOR PLANS FOR FURTHER INFORMATION.
- COORDINATE PLUMBING FIXTURE FINISHED HEIGHTS WITH FINISHED FLOOR ELEVATIONS FOR FLUSH INSTALL.
- PAINTING.
 - ALL EXISTING PAINTED SURFACES WITHIN AREA OF NEW WORK TO RECEIVE NEW PAINT INCLUDING WALLS, GYPSUM CEILINGS, DOORS AND FRAMES AND ANY ACCESSORY ITEMS SUCH AS METAL SUPPORT BRACKETS AND FRAMES FOR BENCHES AND HOOKS IF APPLICABLE, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS.
 - ALL NEW GYPSUM BOARD SURFACES TO RECEIVE PAINT FINISH.
 - COLOR. PAINT COLORS ARE TO MATCH EXISTING SCHOOL COLOUR SCHEME(S).
 - DO NOT PAINT FIRE RATED DOOR OR CEILING GRILLES (TYP.).
 - REFER TO DRAWINGS AND SPECIFICATIONS FOR FINISH REQUIREMENTS FOR EXISTING MILLWORK ELEMENTS.
- REFER TO APPENDIX A: DETAILS FOR TYPICAL APPLICABLE FINISH DETAILS:
 - DSK 01.4 MOUNTING HEIGHTS
 - DSK 08.1 DOOR FRAME DETAILS - MASONRY WALLS
 - DSK 08.2 DOOR FRAME DETAILS - STEEL STUD WALLS
 - DSK 09.10 DOOR "POCKET" DETAIL
 - DSK 09.11 TILE ACCESSORIES (CORNER GUARDS AND TRANSITIONS)
 - DSK 09.12 TILE BASE DETAILS
- FOR TILE PATTERNS - REFER TO DETAIL THIS PAGE UNLESS NOTED OTHERWISE BY KEYNOTES ON ELEVATIONS.

KEYNOTES

Key Value	Keynote Text
083310.MAD	MECHANICAL ACCESS DOOR. Refer to Mechanical specification. Locate as required for most convenient access to new or existing equipment.
087100.DS	DOOR STOP - wall mounted. Provide blocking behind gypsum board in steel stud partitions.
087100.ECB	EMERGENCY CALL MUSHROOM BUTTON. Refer also to electrical.
087100.ECS	Sign Emergency Call
087100.PDD	POWER DOOR OPERATOR with hold open function. (Refer also to Electrical)
087100.PLA	Combined Push to lock and Door Actuator button (Refer also to Electrical)
093013.CG-1	TILE CORNER TRIM CG-1 Schluter Rondo
093013.CT1	CERAMIC WALL TILE 100x400 Arctic White Bright
093013.MT4	GLASS MOSAIC TILE 25x150 Twilight Blue/Dusk Glass Tile. Installed in vertical "soldier" pattern.
093013.PT2	PORCELAIN TILE 305x610 Anthracite. Pattern as indicated.
096500.RB	RUBBER BASE
099100.PF	PAINT FINISH. Colour to match existing colour scheme.
102800.CH-1	COAT HOOK
102800.CT-1	ADULT CHANGE TABLE
102800.GB-1	GRAB BAR - Stainless Steel, 90 Degree peened grip
102800.GB-2	GRAB BAR - Stainless Steel 24" Straight peened grip
102800.HD-1	HAND DRYER. Contractor to provide hand dryer and coordinate installation with Electrical trade. Refer to electrical for power supply.
102800.MI-1	TILT MIRROR - 24" x 36" barrier free
102800.SD-1	SOAP DISPENSER supply by Owner install by Contractor
102800.SH-1	SHELF - Stainless Steel
102800.SND-1	SANITARY NAPKIN DISPOSAL
102800.TP-1	TOILET PAPER HOLDER supply by Owner install by Contractor
125000.CS1	CHEMICAL MIXING STATION supplied by Owner installed by Contractor. Refer to Mechanical for connections
125000.WS60	WIRE SHELVING 60"x72"
220100.CO	CLEAN OUT. Refer to mechanical.
220100.EW1	EYE WASH STATION Refer to Mechanical
220100.FFD	FUNNEL FLOOR DRAIN for change table. Refer to mechanical.
220100.HB	HOSE BIBB. Refer to mechanical.
220100.L-1	LAVATORY. Refer to mechanical.
220100.MS-1	MOP SINK MS-1. Refer to mechanical.
220100.T1	TOILET T-1. Refer to mechanical.
220100.TF	TOILET FLANGE in tile
223300.A1	HOT WATER TANK. Refer to mechanical and electrical.
262700.EFS	EXHAUST FAN SWITCH. Refer to mechanical and electrical.
262700.EP	ELECTRICAL PANEL. Refer to electrical.
262700.GFI	GFI RECEPTACLE. Refer to electrical.
262700.LS	LIGHTING CONTROLS. Refer to electrical.
262700.REC	RECEPTACLE. Refer to electrical.
265000.OS	OCCUPANCY SENSOR Refer to Electrical
265300.BU	EMERGENCY LIGHT w/ battery unit Refer to Electrical
283000.FAS	FIRE ALARM STROBE. Refer to electrical.

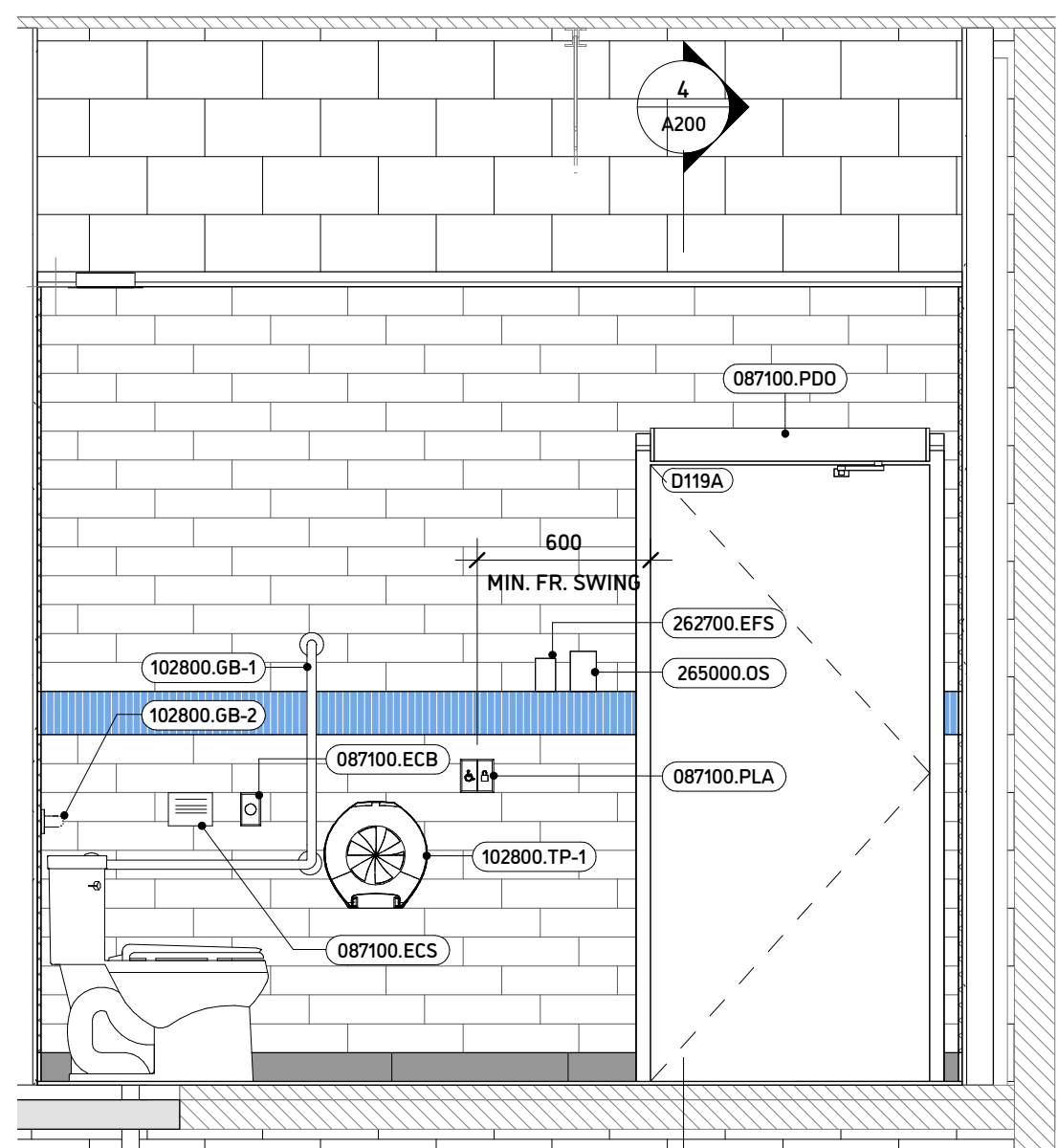
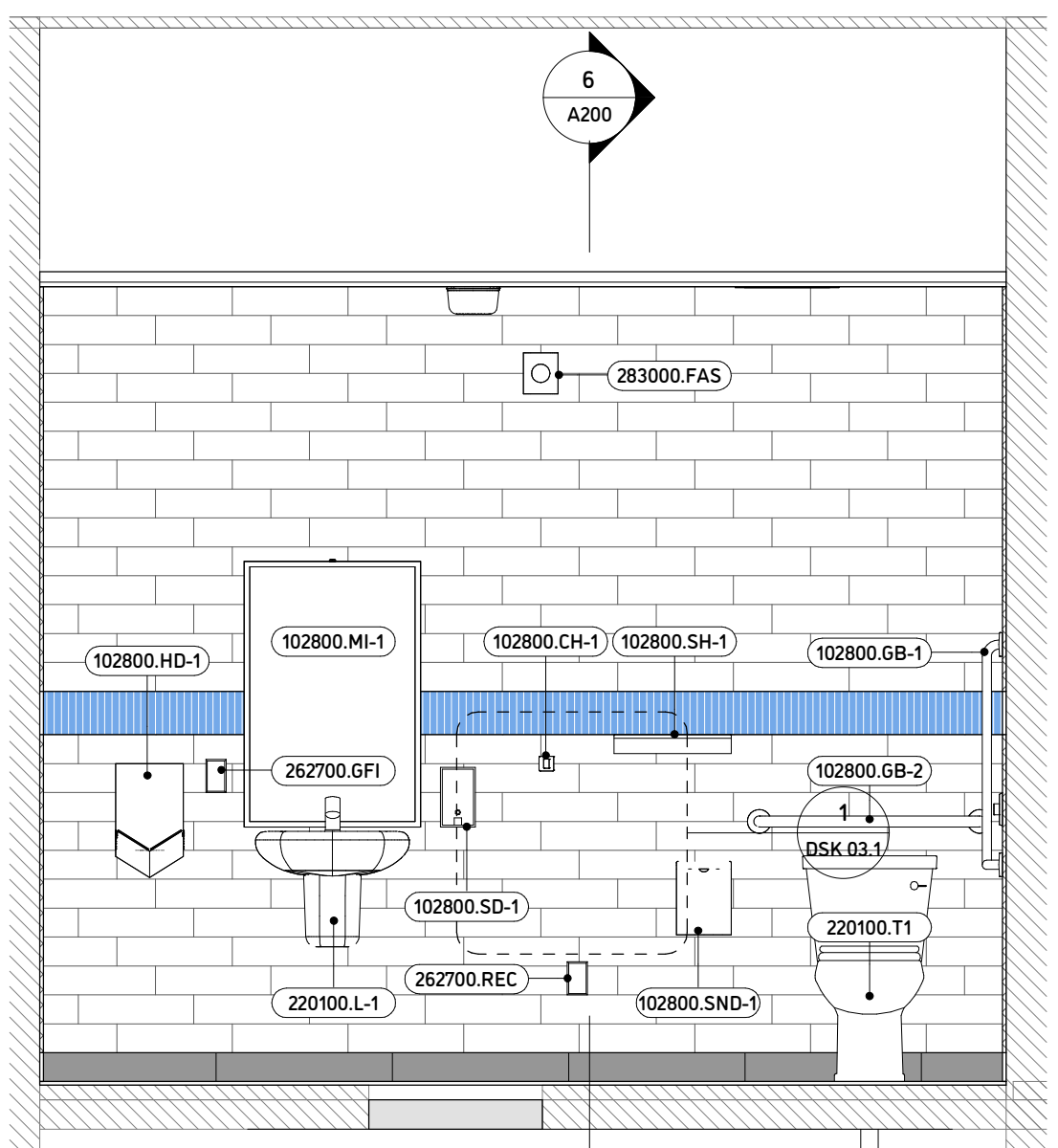
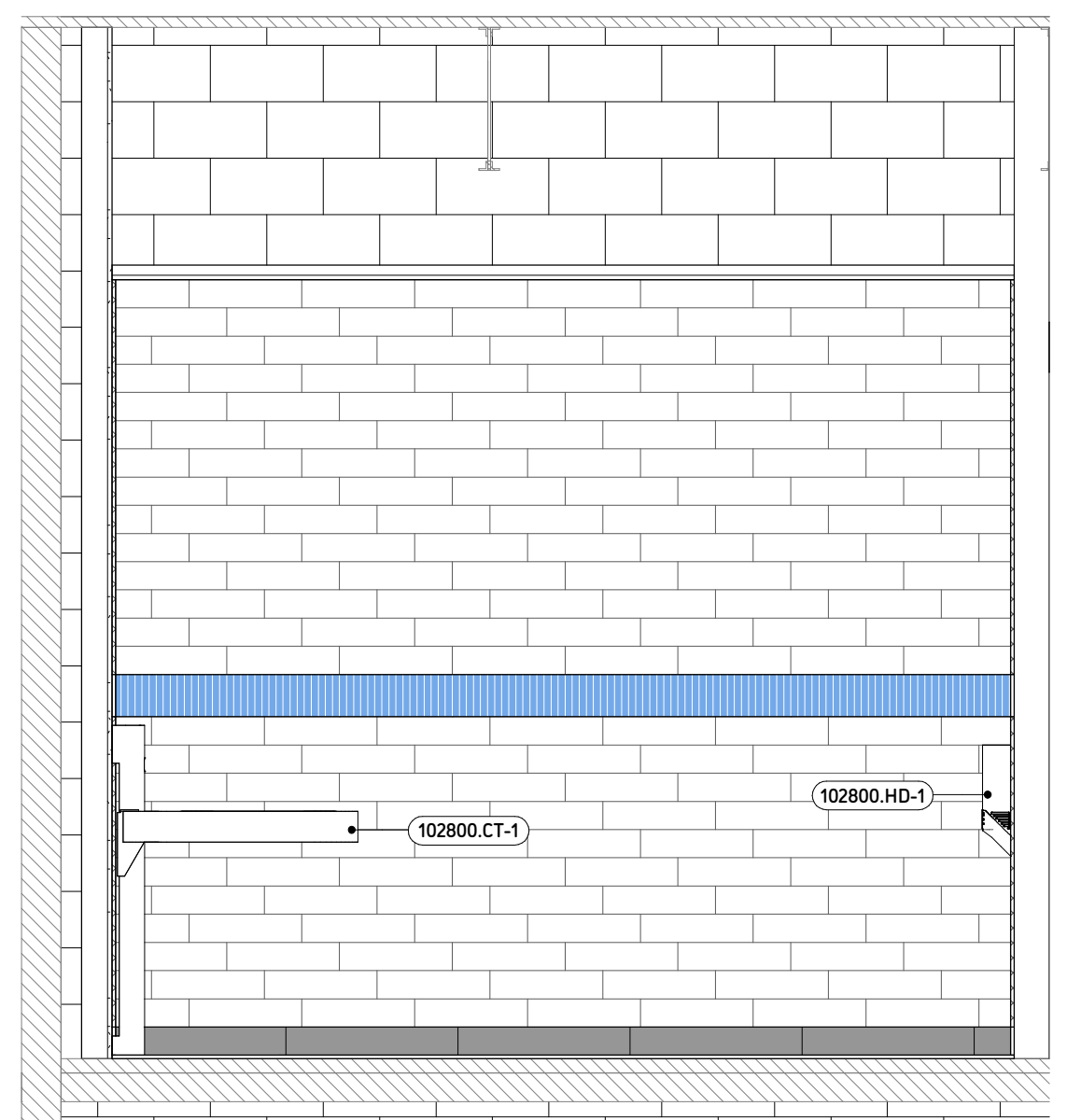
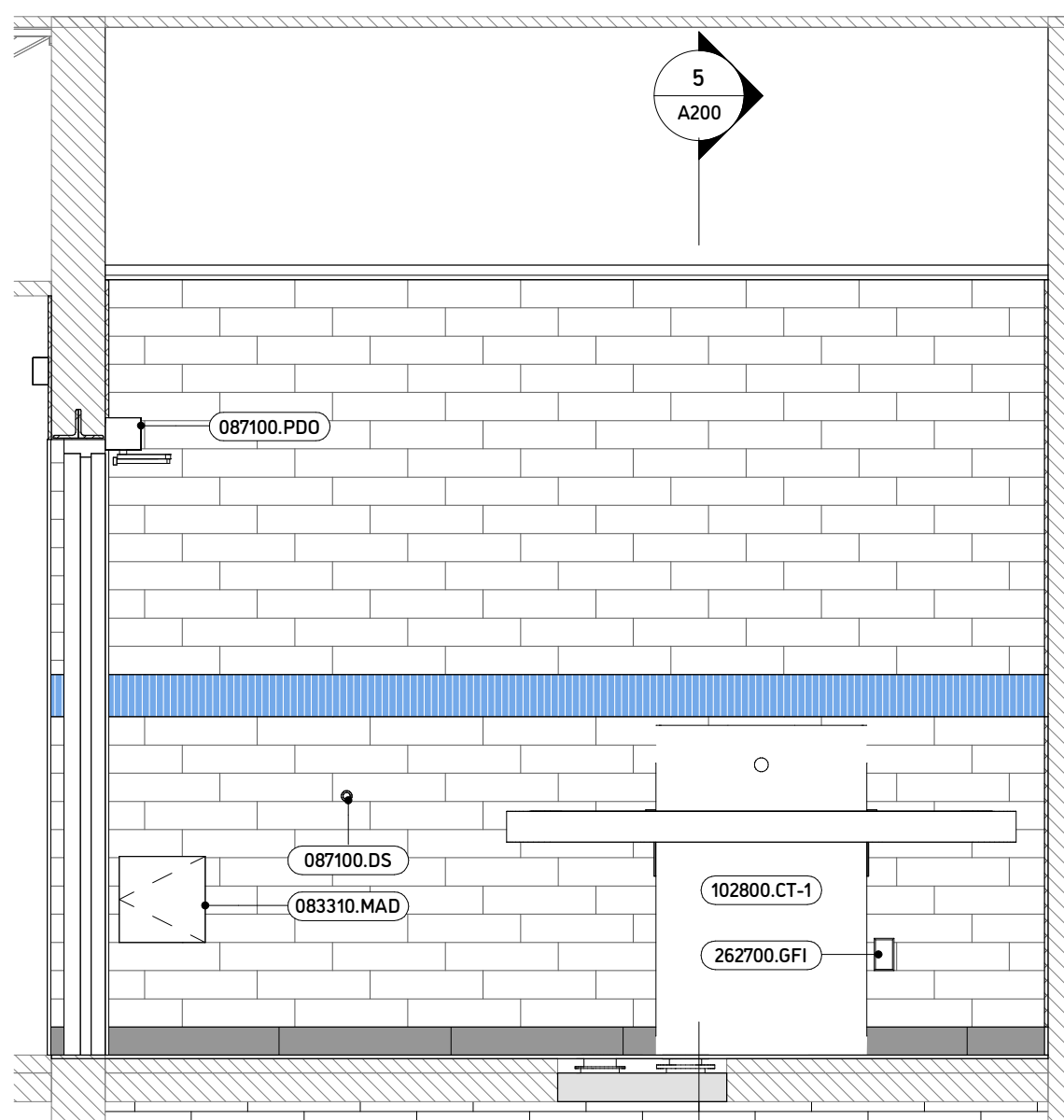


A900 Room Finish Schedule

Room name	Room #	Floor Finish	Wall Finish	Base Finish	Ceiling Finish	Comments
Universal Washroom	119A	PT-2	CT-1/MT-3	PT-2	ACT-2	Provide fire rated enclosures to all electrical devices and lighting.
Custodial	122	PT-2	CT-1	PT-2	ACT-2	Provide fire rated enclosures to all electrical devices and lighting.

ROOM FINISH SCHEDULE - NOTES

- REFER TO SPECIFICATIONS FOR SPECIFIC PRODUCTS IDENTIFIED BY THE TAG AND KEYNOTES ON DRAWINGS AND SCHEDULES.
 - PT-X PORCELAIN TILE.
 - CT-X CERAMIC TILE.
 - MT-X MOSAIC TILE.
 - PF. PAINT FINISH.
 - PME. PAINT MATCH EXISTING.
 - RB. RUBBER BASE.
 - VCT. VINYL COMPOSITE TILE
 - ACT. ACOUSTIC CEILING TILE
 - EXIST. EXISTING FINISH TO REMAIN.
 - EXT EXISTING TERRAZZO TO REMAIN
 - CS CONCRETE SEALER
- REFER TO A900 SERIES FINISH DRAWINGS FOR FULL EXTENT OF FINISHES.
 - A. DOOR AND FRAME TO RECEIVE PAINT FINISH TO MATCH EXISTING.
 - B. GYPSUM CEILING TO RECEIVE PAINT FINISH.
 - C. TRANSOM PANEL. GYPSUM TRANSOM PANEL ABOVE DOOR TO RECEIVE PAINT FINISH.



GENERAL NOTES:

- 1. READ STRUCTURAL DRAWINGS IN CONNECTION WITH OTHER CONTRACT DOCUMENTS
- 2. THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON THE STRUCTURE DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION. ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCING WORK
- 3. DO NOT SCALE DRAWINGS
- 4. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
- 5. STRUCTURAL DESIGN IS BASED ON THE LATEST EDITION OF THE NATIONAL BUILDING CODE AND, SPECIFICALLY, DIV. B- PART 4 OF THE 2012 ONTARIO BUILDING CODE
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR THE TESTING OF CONCRETE, COMPACTION, INSPECTION OF STRUCTURAL REINFORCING AND STRUCTURAL STEEL FOR ALIGNMENT, BOLTS AND WELDED CONNECTIONS, AND FOR THE PROMPT SUBMISSION OF ALL REPORTS TO THE PROJECT ENGINEER AND ARCHITECT.
- 7. ANY TEMPORARY SHORING REQUIRED TO CONSTRUCT THE WORKS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT THE START OF THE PROJECT AND ARRANGE FOR ALL INSPECTIONS IN ACCORDANCE WITH CLAUSE 10.2 OF THE BUILDING CODE ACT AND DIV. C, PART 1 OF THE ONTARIO BUILDING CODE. PROVIDE MINIMUM 48 HOURS NOTICE WHEN AN INSPECTION IS REQUIRED. TULLOCH ENGINEER HUNTSVILLE MY BE CONTACTED BY PHONE AT (705)789-8751.
- 9. WHERE DEMOLITION OR RENOVATION OF EXISTING BUILDING IS INVOLVED, IT IS THE RESPONSIBILITY OF THE OWNER TO COMPLETE A DESIGNATED SUBSTANCE SURVEY. A COPY OF THE SURVEY SHALL BE FORWARDED TO THE ENGINEER AND TO THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA SPECIFICATIONS 516.1 (LATEST EDITION) AND CSA SPECIFICATIONS 640.1 TYPE350W (LATEST EDITION) FOR BEAMS AND 350W FOR HSS (CLASS C).
- 2. THE WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE CSA W59 AND THE WELDING COMPANY AND WELDERS SHALL BE QUALIFIED UNDER THE REQUIREMENTS OF CSA W57 (LATEST EDITION) FOR THE APPROPRIATE POSITION.
- 3. PREPARE AND SUBMIT FOR APPROVAL, FULLY DETAILED AND DIMENSIONED DRAWINGS AND ERECTION DIAGRAMS, FOUR COPIES SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL, FABRICATION, AND ERECTION, DRAWINGS SHALL BE SEALED BY THE FABRICATORS ENGINEER. ADDITIONAL COPIES OF THE DRAWINGS SHALL BE PROVIDED AS REQUIRED.
- 4. BOLTED CONNECTIONS SHALL BE MADE USING FRICTION TYPE CONNECTIONS AND HIGH TENSILE STRENGTH BOLTS (A325 MINIMUM).
- 5. PROVIDE AND REMOVE TEMPORARY BRACING NECESSARY TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION.
- 6. ALL CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTORS AND ARE TO BE DESIGNED AND STAMPED BY THE FABRICATOR'S ENGINEER AS PER CSA 516.1
- 7. STEEL SHALL BE THOROUGHLY CLEANED AND BE GIVEN ONE SHOP COAT OF ANTI-CORROSIVE PRIMER, AREAS EFFECTED BY WEATHERING, DAMAGE DUE TO HANDLING ETC., SHALL HAVE THE RUST REMOVED AND BE "TOUCHED UP" IN THE FIELD.
- 8. ALL OF THE BASE PLATES FOR COLUMNS AND BEARING PLATES FOR THE BEAMS SHALL BE GROUTED WITH MINIMUM OF 38MM (1 1/2") OF 35 MPA (5100 PSI) NON-SHRINK GROUT.
- 9. NO SPLICES IN BEAMS AND COLUMNS WILL BE ALLOWED WITHOUT WRITTEN APPROVAL BY THE ENGINEER, BUT WELDS IN SPLICES AND MOMENT CONNECTIONS MUST BE ULTRASONICALLY TESTED OR X-RAYED AND PASSED BY AN INDEPENDENT TESTING COMPANY.
- 10. CO-ORDINATE WITH MECHANICAL ENGINEER, ELECTRICAL ENGINEER, AND ALL SUB-TRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL. DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT ENGINEER APPROVAL.
- 11. NO HOLES SHALL BE CUT IN THE BEAMS OR COLUMNS.

FOUNDATIONS

- 1. FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 150 kPa (3000 psf). BEARING CAPACITY SHALL BE CONFIRMED BY CBO OR ENGINEER
- 2. NO FOOTINGS SHALL BE POURED UNTIL THE ENGINEER HAS APPROVED THE FOUNDATION CONDITIONS.
- 3. THE LINE SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 AND A RUN OF 10.
- 4. ERECT, MAINTAIN, AND IF REQUIRED, REMOVE A SUPPORTING SHORING SYSTEM ALONG THE SIDES OF THE EXCAVATION.

CONCRETE

- 1. CONCRETE IS SPECIFIED USING ALTERNATIVE NUMBER OF CSA A23.1 TABLE 2 AS FOLLOWS:

	EXTERIOR FOUNDATIONS	INTERIOR FLOOR SLAB
EXPOSED CLASS (TABLE 1)	C-1	N
AIR CONTENT CATEGORY (TABLE 4)	1	N/A
MAX. W/C RATIO (TABLE 2)	0.40	.055
CURING TYPE (TABLE 2)	2	1
MAX. COMPRESSIVE STRENGTH @ 28 DAYS	35MPa	30MPa
- 2. AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF CONCRETE THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW:
 - . A VALID "CERTIFICATE OF READY MIXED CONCRETE PRODUCTION FACILITIES" OR A VALID "CERTIFICATE OF MOBILE MIX CONCRETE PRODUCTION FACILITIES" AS ISSUED BY THE "READY MIXED CONCRETE ASSOCIATION OF ONTARIO" TO THE PLANT BEING USED.
 - . A COMPLETED "CONCRETE MIXED FINAL SUBMISSION FORM"
 - . A QUALITY PLAN THAT DESIGNATES A SPECIFIED SLUMP OR SOME OTHER MEASURE OF WORKMANSHIP
 - . TEST RESULTS TO SHOW COMPLIANCE WITH CSA A23.1
 - . AIR VOID SYSTEM OF HARDENED CONCRETE.
 - . STATISTICAL STRENGTH TEST ANALYSIS TO CONFIRM THE STRENGTH LEVEL FOR EACH CLASS OF CONCRETE INCLUDING THE EXPECTED 7/28 DAY STRENGTH RATIO
- 3. FABRICATION AND PLACEMENT OF REINFORCING STEEL TO BE IN ACCORDANCE WITH CSA A23.1 AND THE REINFORCING STEEL INSTITUTE OF CANADA'S "REINFORCING STEEL MANUAL OF STANDARD PRACTICE".
- 4. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO CSA G30.18 M92, Fy=400 MPa (GRADE 400)
- 5. CONCRETE SHALL NOT BE POURED UNTIL REBAR HAS BEEN INSPECTED BY THE ENGINEER.
- 6. WHERE REBARS JOIN AT CORNERS PROVIDE CORNER BARS FOR LAPS, UNLESS NOTED OTHERWISE.
- 7. CONCRETE COVER FOR REINFORCING STEEL AS PER TABLE 17 OF CSA A23.1
 - . ALL CONCRETE CAST AGAINST EARTH 76MM
 - . ALL CONCRETE CAST IN FORMS BUT EXPOSED TO EARTH OR WEATHER 50MM
 - . BARS 20M AND SMALLER IN WALLS AND SLABS 32MM
 - . CONCRETE NOT EXPOSED TO EARTH AND WEATHER 25MM OR 1.5 NOMINAL BAR DIAMETER
- 8. ALL REINFORCING BARS SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BY PRECAST CONCRETE, ADDITION BARS, TIES, TIES OR APPROVED CHAIRS AGAINST DISPLACEMENT.
- 9. CONTINUOUS AND TEMPERATURE REINFORCING BARS SPLICES TO BE LAPPED 40 BAR DIAMETERS OR A MINIMUM OF 600 AT SPLICES AND CORNERS, UNLESS OTHERWISE SHOWN ON SECTION OR TYPICAL DETAILS. LAP CONTINUOUS TOP BARS AT CENTRE BETWEEN SUPPORTS AND CONTINUOUS ENDS WITH STANDARD HOOKS.
- 10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL CONCRETE IS PLACED AND CURED IN CONFORMANCE WITH THE REQUIREMENT OF CSA A23.1-14. THE CONTRACTOR IS RESPONSIBLE FOR ALL HEATING AND HOARDING REQUIRED.
- 11. ALL EXTERIOR EDGES TO BE CHAMFERED 19MM UNLESS NOTED OTHERWISE.

CEMENTITIOUS GROUT:

- 1. CEMENTITIOUS GROUT UNDER BASE PLATES TO BE SIKAGROUT 212.

CONCRETE ANCHORS:

- 1. ALL CONCRETE ANCHORS TO BE HILTI HAS ROD HOT DIPPED GALVANIZED (DIAMETER AS NOTED ON DRAWINGS).
- 2. ALL CONCRETE ANCHORS TO BE COMPLETE WITH HOT DIPPED GALVANIZED FLAT WASHERS, NUTS, LOCK NUTS, ETC. AS SPECIFIED ON THE DRAWINGS
- 3. ALL EPOXY ADHESIVE SHALL BE HILTI HIT-HY 200/HIT ICE.
- 4. INSTALL AS PER MANUFACTURE'S SPECIFICATIONS.

MASONRY:

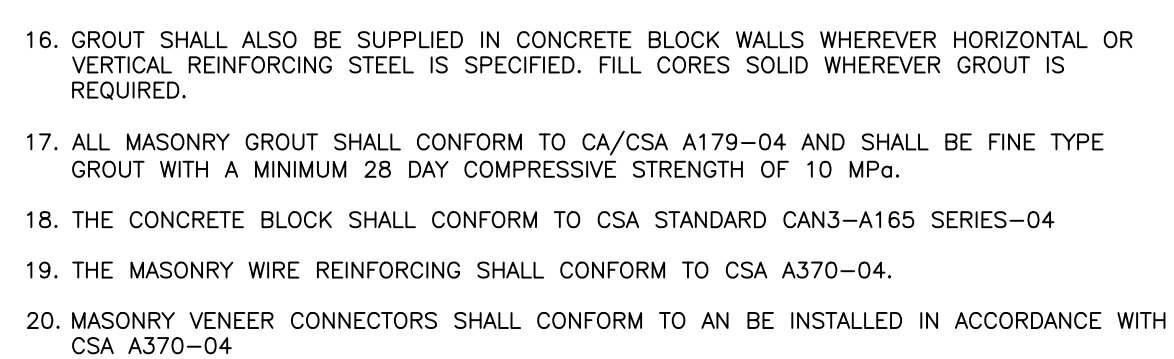
- 1. ALL MASONRY WORK SHALL CONFORM TO NATIONAL BUILDING CODE LATEST EDITION AND CSA STANDARDS S 304.1 - "DESIGN OF MASONRY STRUCTURES", LATEST EDITION.
- 2. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO CAN/CSA A165 SERIES-04 EXCEPT WHERE OTHERWISE SPECIFIED. PROVIDE MASONRY BLOCK WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 MPa
- 3. LINTELS OVER ALL OPENINGS IN NON LOAD BEARING MASONRY WALLS, UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS, PROVIDE LINTELS AS PER THE FOLLOWING SCHEDULE:

LINTEL SCHEDULE FOR NON-LOADBEARING MASONRY WALLS

THICKNESS OF WALL	MAXIMUM CLEAR SPAN OF OPENING				TYPE
	L1 4'-0" OR LESS	L2 4'-0" OR 6'-0"	L3 6'-0" OR 8'-0"	L4 8'-0" OR 10'-0"	
150mm	2 - L89x89x8 ILV	2 - L89x84x8 ILV	L125x125x8	L150x150x8	OR

- 4. ALL STEEL LINTELS TO HAVE MINIMUM OF 150MM (6") BEARING ON EACH SIDE OF OPENING.
- 5. PROVIDE MINIMUM OF 2 COURSES OF 100% FILLED SOLID BLOCK 16" LONG MINIMUM FILLED WITH 20 MPa CONCRETE, CENTERED UNDER EACH BEAM AND JOIST BEARING PLATE.
- 6. MINIMUM BEAM BEARING PLATE UNLESS NOTED FOR JOIST OR BEAM SUPPLIED BY STEEL FABRICATOR
 - SP1 - 150MM CONC BLOCK - 250 x 12 x 125
 - SP2 - 200MM CONC BLOCK - 250 x 12 x 178
 - EACH WITH 1-12MM ANCHORS
- 7. FILL BLOCKS SOLID BELOW BEARING PLATES TWO COURSES, AND ALL LINTEL BLOCKS WITH TYPE M MORTAR 17.5 MPa
- 8. LOAD BEARING AND NON-LOAD BEARING WALLS TYPE S MORTAR 12.5 MPa
- 9. PROVIDE HORIZONTAL REINFORCING AT EVERY 2nd BLOCK COURSE USING HEAVY DUTY BLOCK-LOC LADDER REINFORCING.
- 10. OVER ALL OPENING AND RECESSES IN MASONRY WALLS, INCLUDING THOSE FOR MECHANICAL AND ELECTRICAL SERVICES OR EQUIPMENT, PROVIDE AND INSTALL MASONRY OR STEEL LINTELS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LINTEL SCHEDULE
- 11. OBTAIN THE ENGINEER'S PERMISSION FOR ALL OPENINGS, SLEEVES, AND SLOTS THROUGH STRUCTURAL COMPONENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 12. WHERE DOWELS, ANCHOR BOLTS, ETC., ARE SHOWN PROJECTING INTO MASONRY, GROUT THESE TIGHT INTO MASONRY VOIDS WITH CONCRETE OR CEMENT MORTAR.
- 13. PROVIDE A MINIMUM OF 400MM (16") DEPTH OF 100% SOLID MASONRY UNITS FOR BEARING OF STEEL, CONCRETE, OR MASONRY LINTELS AND FOR MINIMUM OF 200MM (8") PAST BEARING PLATE EACH SIDE.
- 14. ALL MASONRY MUST BE SET WITH FULLY FILLED JOINTS USING MORTAR AS DEFINED IN THE NATIONAL BUILDING CODE AND/OR CSA A179M. MORTAR TO BE TYPE "S" UNLESS NOTED OTHERWISE.
- 15. PROVIDE A MINIMUM OF 38MM (1 1/2") PORTLAND CEMENT GROUT UNDER ALL WALL PLATES AND BASE PLATES.
- 16. GROUT SHALL ALSO BE SUPPLIED IN CONCRETE BLOCK WALLS WHEREVER HORIZONTAL OR VERTICAL REINFORCING STEEL IS SPECIFIED. FILL CORES SOLID WHEREVER GROUT IS REQUIRED.
- 17. ALL MASONRY GROUT SHALL CONFORM TO CA/CSA A179-04 AND SHALL BE FINE TYPE GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 10 MPa.
- 18. THE CONCRETE BLOCK SHALL CONFORM TO CSA STANDARD CAN3-A165 SERIES-04
- 19. THE MASONRY WIRE REINFORCING SHALL CONFORM TO CSA A370-04.
- 20. MASONRY VENEER CONNECTORS SHALL CONFORM TO AN BE INSTALLED IN ACCORDANCE WITH CSA A370-04
- 21. NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5 DEGREES CELSIUS UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND PROTECTING THE WORK WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- 22. ALL MASONRY CONSTRUCTION SHALL CONFORM TO CSA STANDARDS A371-04.
- 23. PROVIDE CONTINUOUS TRUSS TYPE JOINT REINFORCING AT 400MM (16") O.C. AND USE "CORNER-LOC" AT ALL WALL INTERSECTIONS. REINFORCING TO BE HOT DIP GALVANIZED AT ASTM A 153 CLASS B2. LONGITUDINAL WIRES TO BE 4.76MM (3/8") DIAMETER, AND DIAGONAL WIRES TO BE 3.66MM DIAMETER (9 GA).
- 24. ALL METAL ANCHORS TO BE SECURE WALLS EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED.
- 25. ANCHOR ALL MASONRY TO COLUMNS WITH STEEL STRAP PLATE 40 X 5 X 525MM, 50MM HOOKS AT 600MM O.C. (PLATE 1 1/2" X 3/8" X 21", 2" HOOKS AT 24") UNLESS NOTED.
- 26. PROVIDED LINTELS PER LINTEL SCHEDULE.
- 27. VERTICAL REINFORCING SHALL BE CONTINUOUS. LAB BARS 450MM (18")
- 28. REINFORCE ALL OPENINGS THROUGH MASONRY WALLS WITH TWO (2) 15M VERTICAL BARS EACH SIDE OF THE OPENING AND EXTENDING 600MM (16") PAST OPENING.
- 29. PROVIDE ONE COURSE BOND BEAM COMPLETE WITH TWO (2) 15M CONTINUOUS FOR ALL BEARING WALLS UNDER ROOF STRUCTURES AND ALL FLOOR STRUCTURES.

REINFORCED MASONRY PIER:



MATERIAL TESTING AND INSPECTION:

- THE CONTRACTOR SHALL INCLUDE COSTS TO ENSURE THAT THE FOLLOWING QUALITY CONTROL ACTIVITIES ARE UNDERTAKEN DURING THE COURSE OF WORK:
 - 1. COMPACTION TESTING AS SPECIFIED ON THE DRAWINGS
 - 2. TULLOCH TO PERFORM REBAR INSPECTION PRIOR TO CONCRETE PLACEMENT ON BEHALF OF OWNER AT NO COST TO CONTRACTOR
 - 3. CONCRETE TESTING AN COMPACTION IN ACCORDANCE WITH CSA A23.1 AND A23.2 TO BE INCLUDED IN CONTRACTOR BID PRICE BY A THIRD PARTY INDEPENDENT FIRM

FINAL CLEAN UP:

- 1. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, THE BUILDING ERECTION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL WASTE CONSTRUCTION MATERIALS, DEBRIS, ETC. FROM THE SITE.
- 2. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP, WIPE AND POWER WASH ALL SURFACES ON THE INTERIOR AND EXTERIOR OF THE BUILDING.

WOOD:

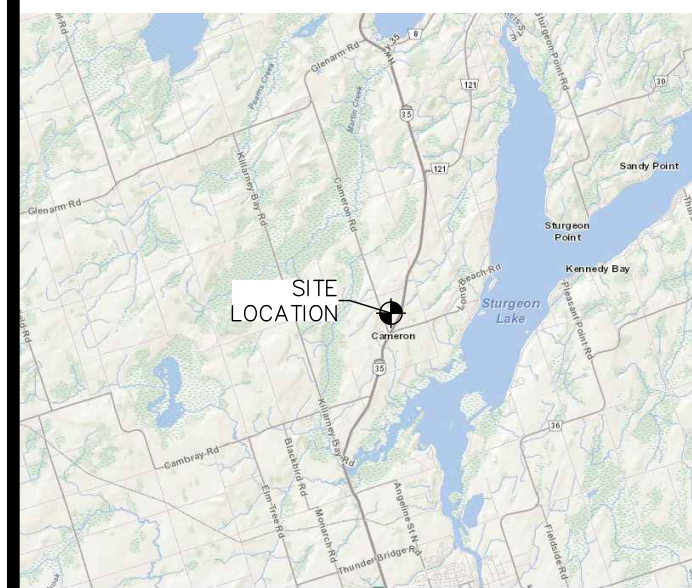
- 1. THE STRUCTURAL TIMBER AND LUMBER SHALL BE NO. 1 OR 2 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
- 2. THE DESIGN OF THE BEAMS, COLUMNS AND LINTELS IS BASED ON THE LIMIT STATES DESIGN SPECIFIED UNDER CSA STANDARD 086. ANY SUBSTITUTIONS OF SPECIES, GRADE OR GROUP MUST BE APPROVED BY THE ENGINEER PRIOR TO THE COMMENCING OF WORK.
- 3. THE LUMBER WAS DESIGNED FOR A MOISTURE CONTENT GREATER THAN 15% AT THE TIME OF MANUFACTURE AND LESS THAN 15% IN SERVICE.
- 4. DURING CONSTRUCTION, ENSURE ALL MEMBERS ARE IN GOOD BEARING CONTACT.
- 5. CONNECTION HARDWARE IS TO RECEIVE ONE COAT OF ZINC CHROMATE PRIMER OR EQUAL. ENSURE THAT ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD ARE COMPATIBLE WITH THE PRESSURE TREATED CHEMICALS.
- 6. ALL PLYWOOD JOINTS ARE TO BE STAGGERED. NAIL ALL FLOOR, ROOF AND WALL SHEATHING AT 150MM (6") O.C. AT EDGES AND 300MM (1') CENTRES ELSEWHERE UNLESS NOTED OTHERWISE.
- 7. ALL PLYWOOD SHALL CONFORM TO CSA STANDARD 0121 OR 0151.
- 8. THE BEARING SHOWN ON THE DRAWINGS IS THE MAXIMUM WIDTH TO BE PROVIDED AND THE TRUSS MANUFACTURER MUST DESIGN THE TRUSSES TO SUIT THE BEARING WIDTH.
- 9. PROVIDE STANDARD JOIST HANGERS AS REQUIRED BY SIMPSON, RSC OR APPROVED EQUIVALENT.
- 10. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- 11. MAXIMUM BRIDGING SPACING FOR SWAN LUMBER JOISTS SHALL BE 2300MM (7'-6") O.C.
- 12. SPIKE EACH LAMINATION OF BUILD-UP BEAMS @ 300MM (1') O.C. AS FOLLOWS:
 - . 1 ROW OF 90MM (3 1/2") LONG NAILS FOR 140MM (5 1/2") DEPTH.
 - . 2 ROWS OF 90MM (3 1/2") LONG NAILS FOR GREATER DEPTH.
- 13. SPIKE AND GLUE BUILD-UP POSTS @22-MM (3/4") O.C. AS PER CODE AS FOLLOWS:
 - . 1 ROW FOR 38x89 (2"x4")
 - . 2 ROWS FOR LARGER SIZES
- 14. CONTINUITY OF POST MUST BE MAINTAINED THROUGH FLOORS BY SOLID BLOCKING OR POST EXTENSIONS.

SUBMITTALS:

- 1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUBMITTAL OF ALL REQUIRED SHOP OR FABRICATION DRAWINGS IN A TIMELY MANNER.
- 2. ALL STRUCTURAL SUBMITTALS SUBMITTED FOR REVIEW MUST FIRST BE REVIEW BY AND STAMPED BY THE GENERAL CONTRACTOR.
- 3. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW:

DRAWING	P. ENG. SEAL
A. REINFORCING STEEL	NO
B. CONCRETE MIX DESIGN	NO
C. STRUCTURAL STEEL	NO
D. SHORING OF EXISTING STRUCTURE	YES
- 4. WHERE NOTED IN THE ABOVE TABLE, STRUCTURAL SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- 5. ALL STRUCTURAL SUBMITTALS WILL BE REVIEWED BY THE ARCHITECT AND THE ENGINEER SOLELY FOR THE CONFORMANCE WITH THE DESIGN INTENT AND THE CONSTRUCTION DOCUMENTS.
- 6. ALL SUBMITTALS SHALL CONSIST OF ONE ELECTRONIC PDF COPY OR FOUR PRINTS. ONE COPY WILL BE RETAINED BY THE ENGINEER.

KEY PLAN



44.44352, -78.77678

ENGINEER'S SEAL:



DATE (DAY/MON/YR)	REV.	REVISION	BY	APP'D
2025/03/21	0	ISSUED FOR TENDER	HD	FP

CLIENT:



CONSULTANT:



PROJECT TITLE:

FENELON TOWNSHIP PUBLIC SCHOOL CAMERON, ONTARIO

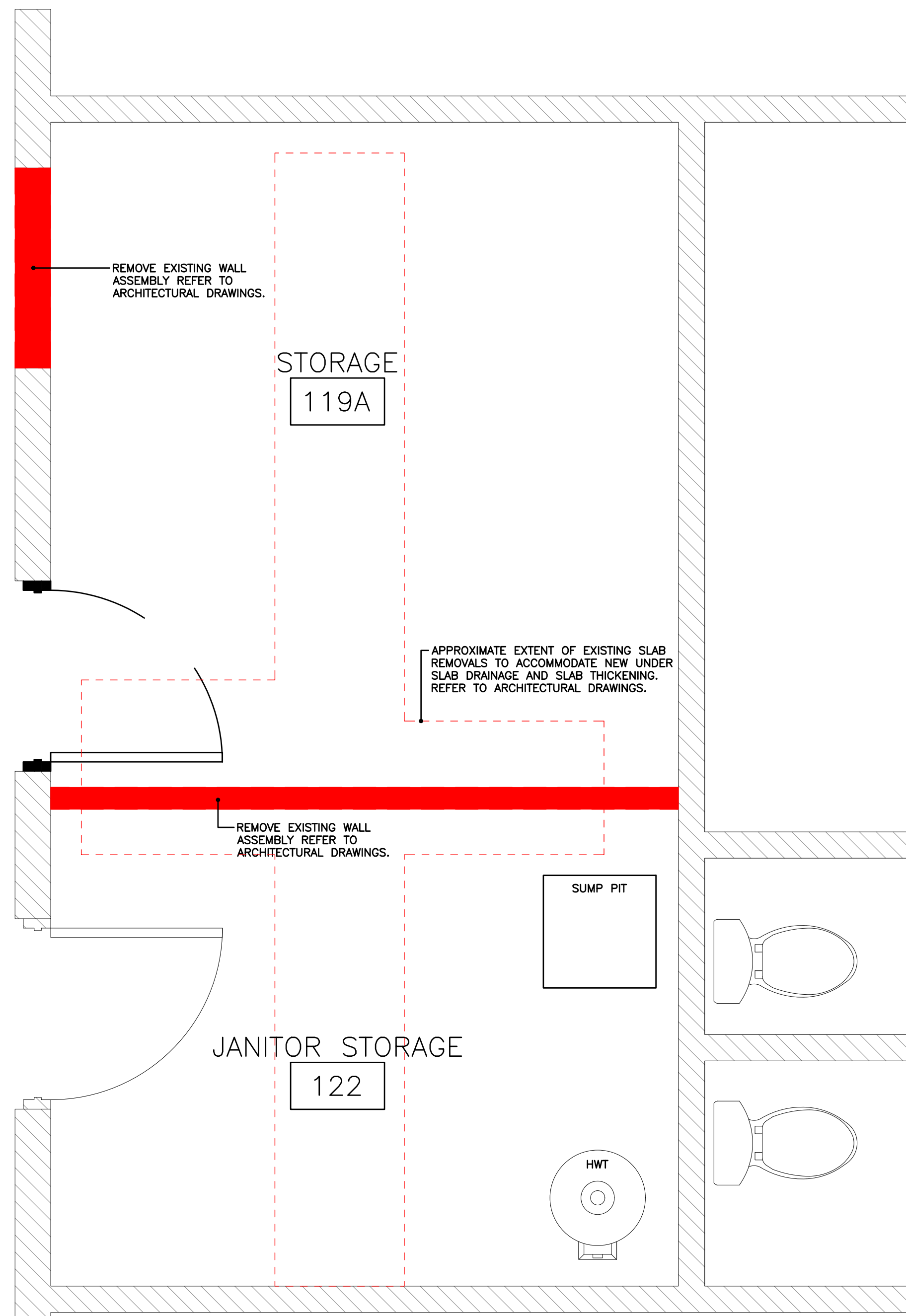
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RFT B25-03 STRUCTURAL UPGRADE AND REPAIRS - GENERAL NOTES

HD	FP	FP	FP
DRAWN	DESIGNED	CHECKED	APPROVED

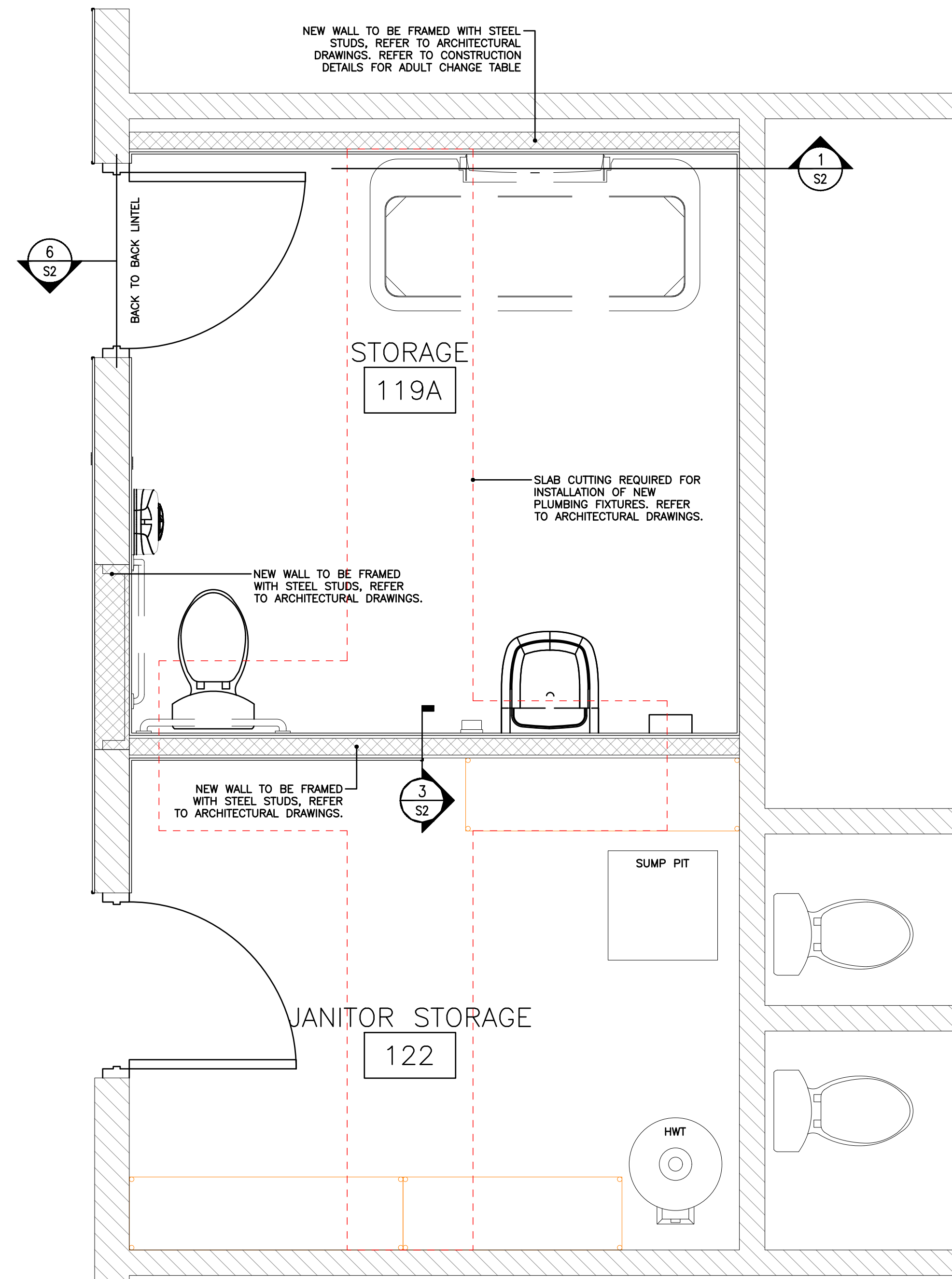
AS NOTED	2025/03/21
SCALE	DATE

25-0708	0	G1
PROJECT No.	REVISION	DRAWING



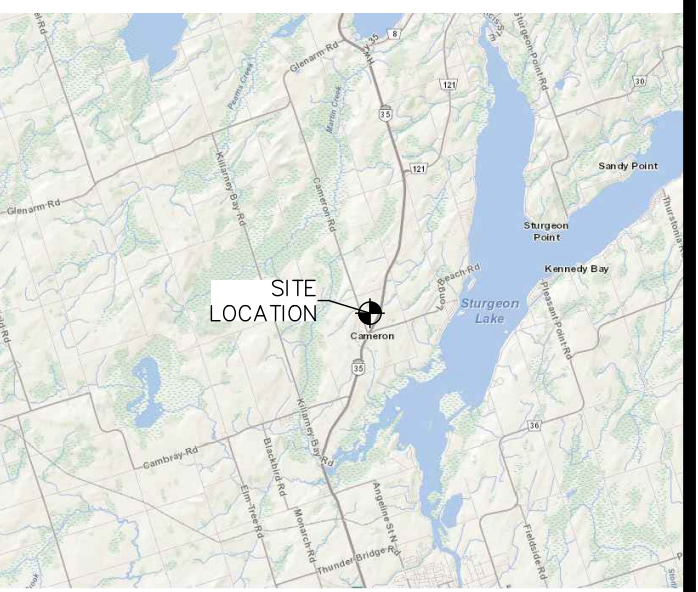
THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS OF THE TEMPORARY SHORING FOR THE REMOVAL OF LOAD BEARING WALLS. DRAWINGS ARE TO BE REVIEWED AND SEALED BY A PROFESSIONAL ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

1 ROOM 119A AND 122 - EXISTING CONDITIONS / REMOVALS
S1 SCALE 1:20



2 ROOM 119A AND 122 - PROPOSED PLAN
S1 SCALE 1:20

KEY PLAN



44.44352, -78.77678

ENGINEER'S SEAL:



2025/03/21	0	ISSUED FOR TENDER	HD	FP
DATE (DAY/MON/YR)	REV.	REVISION	BY	APP'D

CLIENT:

CONSULTANT:

PROJECT TITLE:
FENELON TOWNSHIP
PUBLIC SCHOOL
CAMERON, ONTARIO

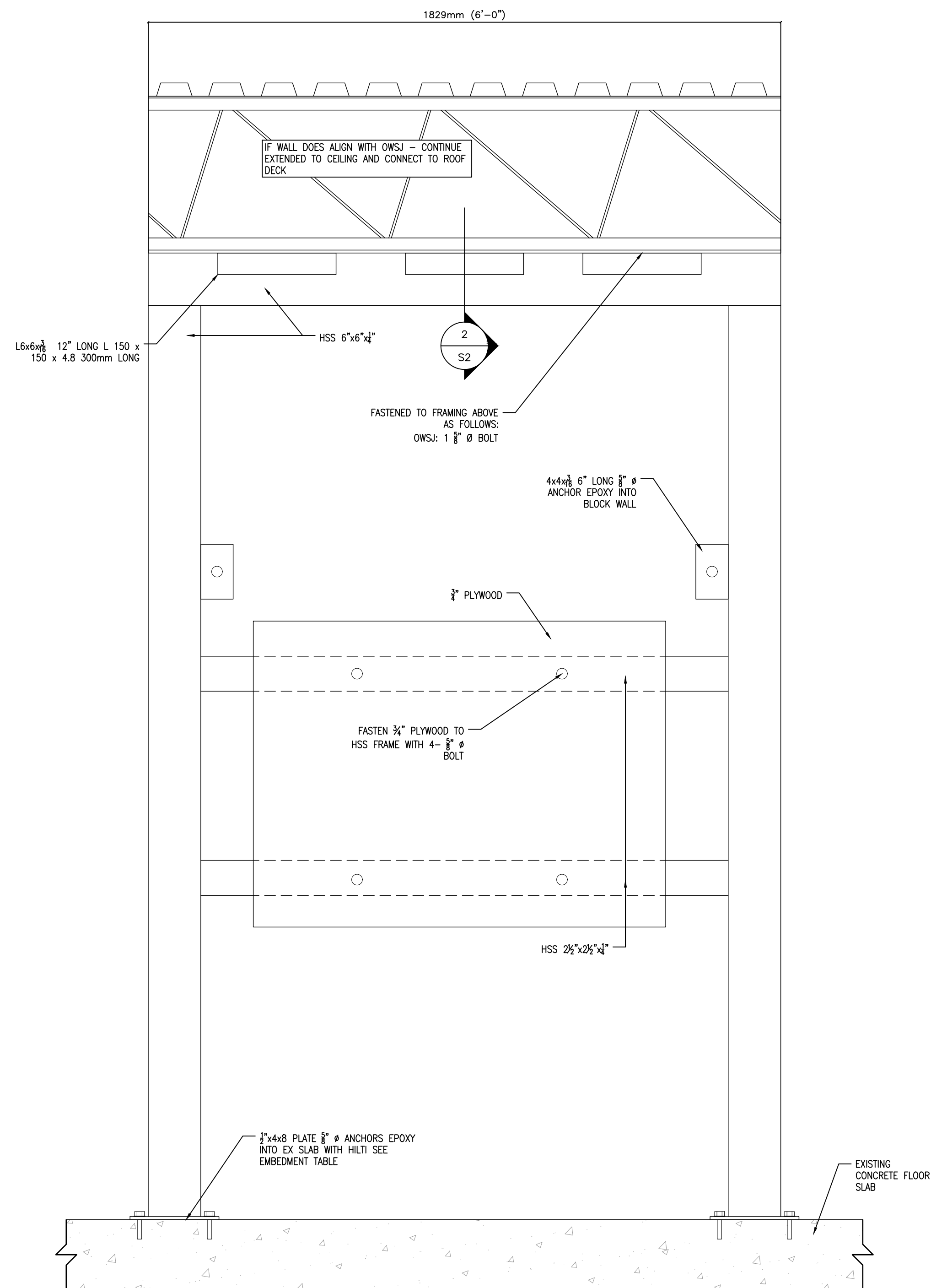
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UPGRADE AND REPAIRS -
ROOM 119A AND 122

HD	FP	FP	FP
DRAWN	DESIGNED	CHECKED	APPROVED

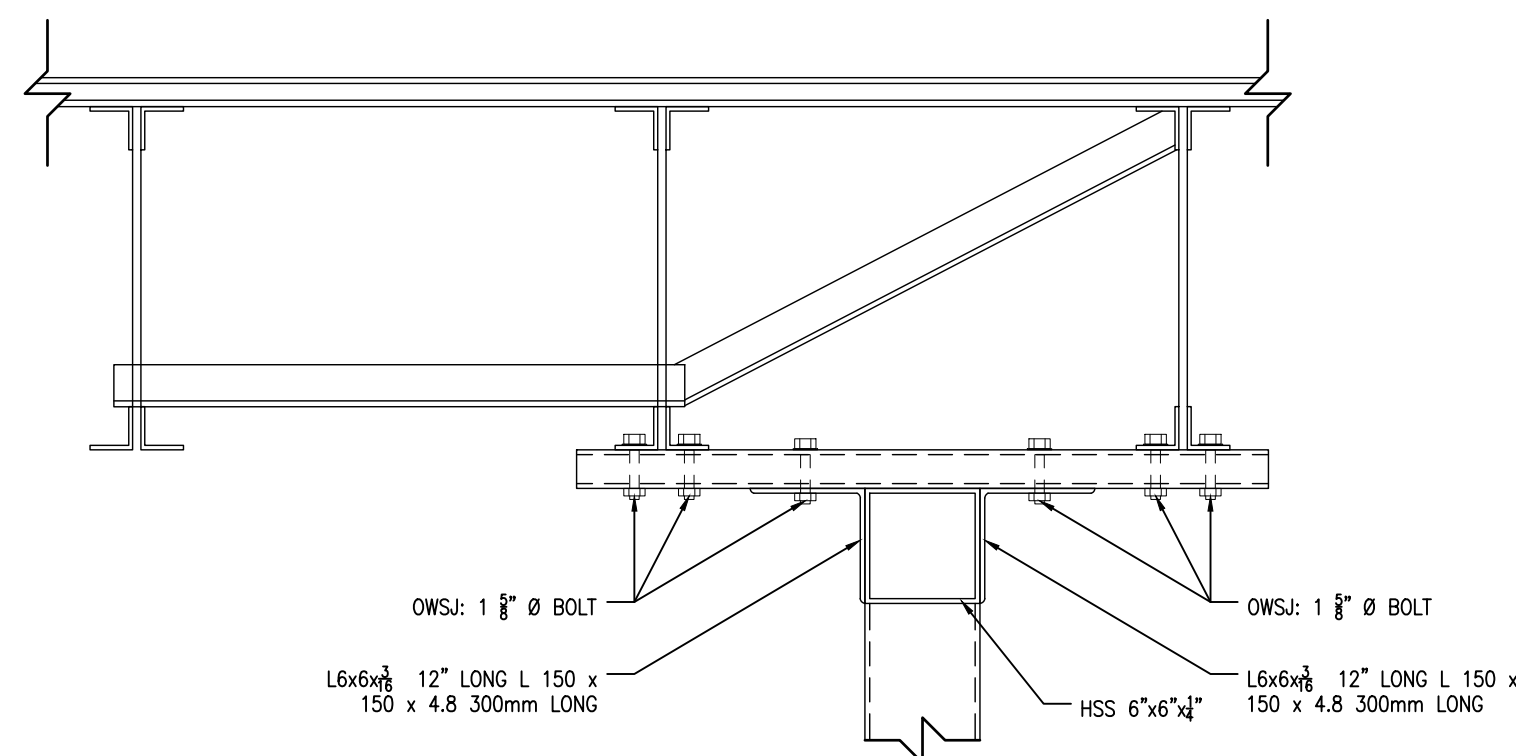
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SCALE	DATE

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PROJECT No.	REVISION	DRAWING

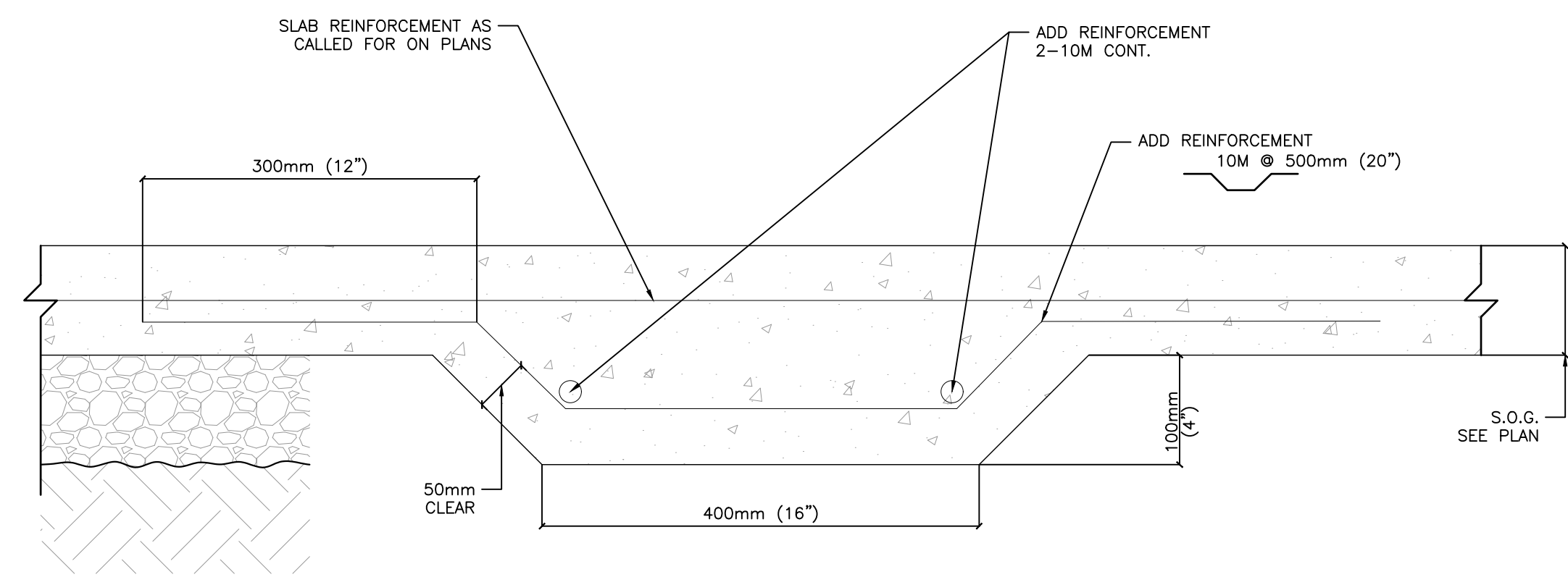
P:\2025\250708 Jason Lowe Architect - Fenelon Twp. PS Universal Washroom\Structure\04.02 Current\250708 - Fenelon Township Public School - 2025.02.21.dwg



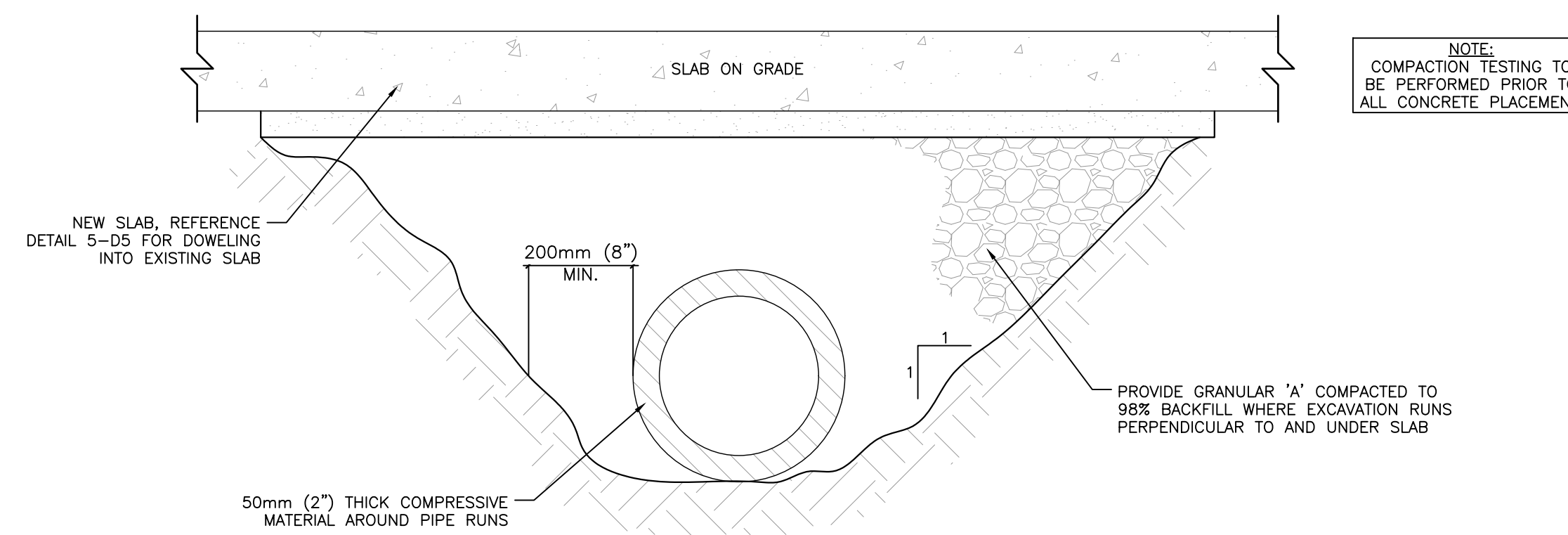
1 PARALLEL TO FRAMING ABOVE
SCALE 1:10



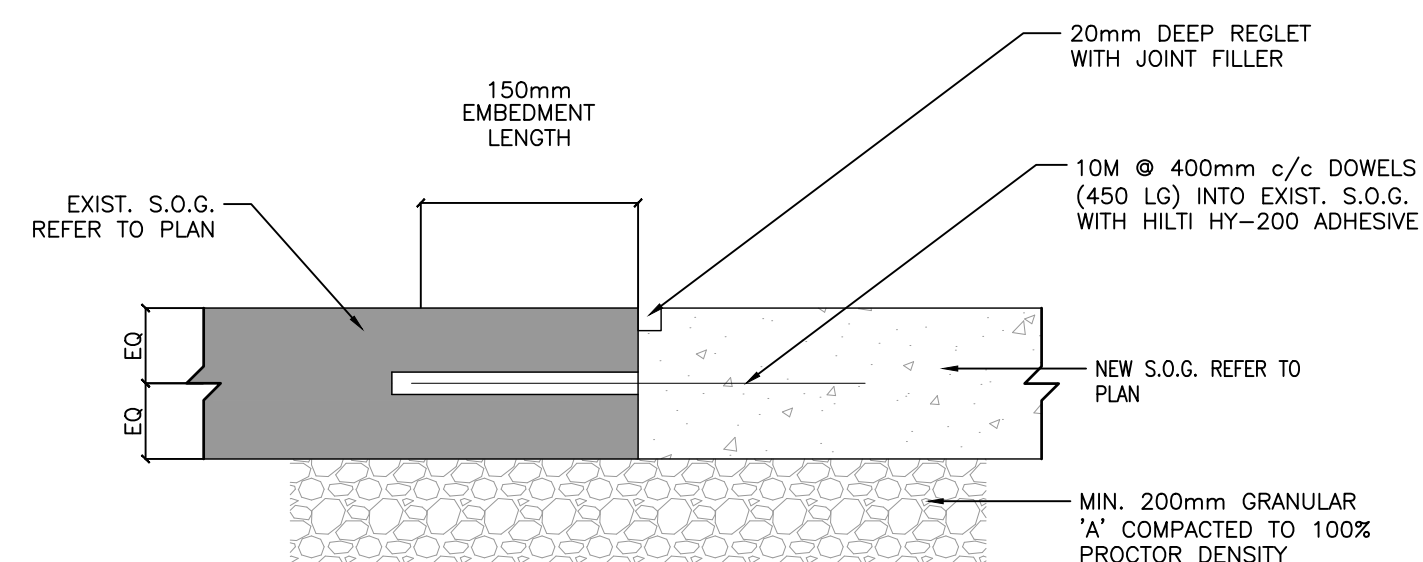
2 LATERAL BRACING BETWEEN JOISTS
SCALE 1:10



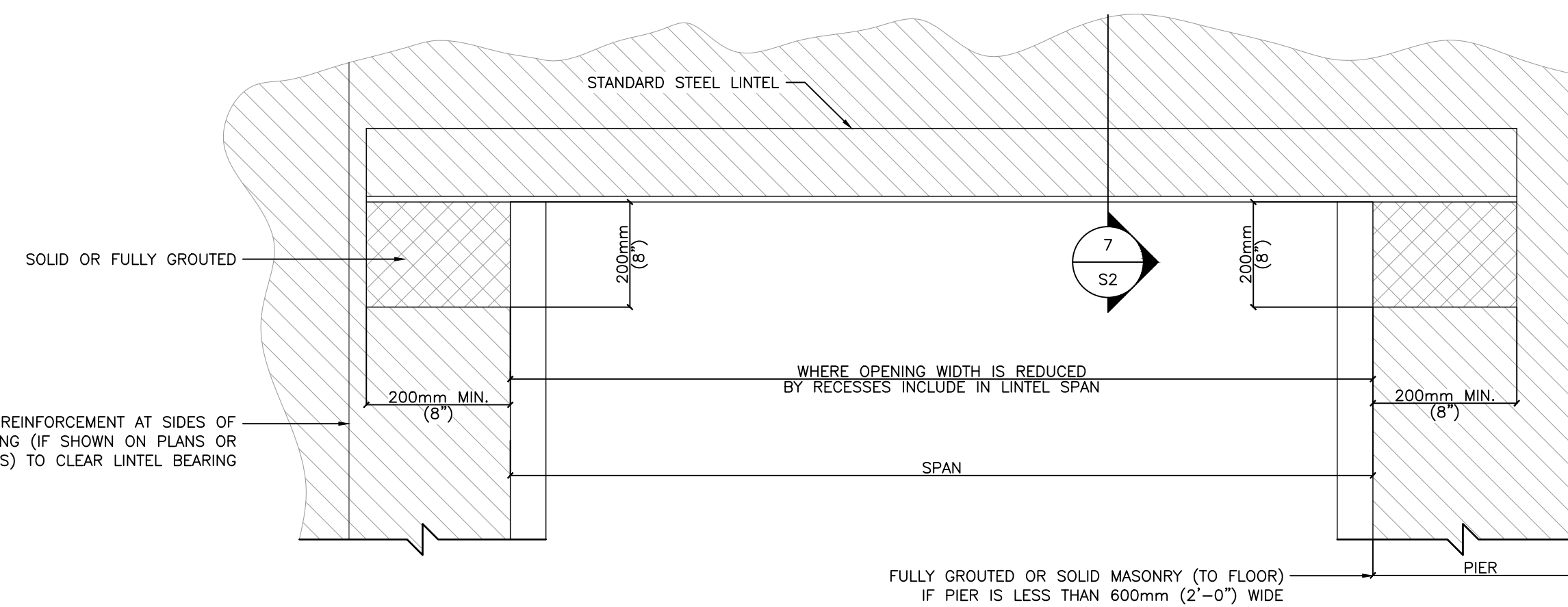
3 SLAB ON GRADE THICKENING
SCALE 1:10



4 BACKFILL AROUND PIPE UNDER SLAB ON GRADE
SCALE 1:10

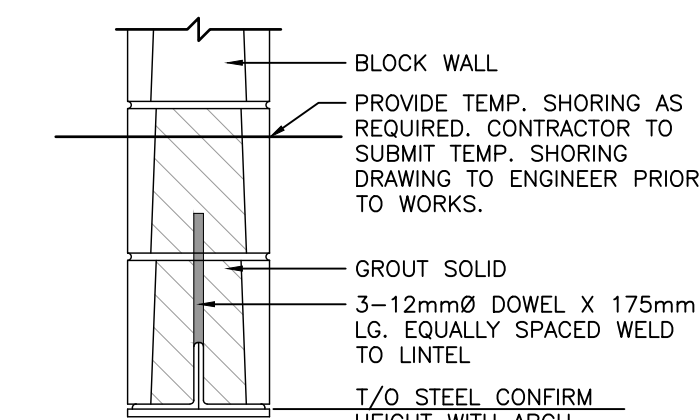


5 DOWEL TO EXISTING SLAB ON GRADE
SCALE 1:5



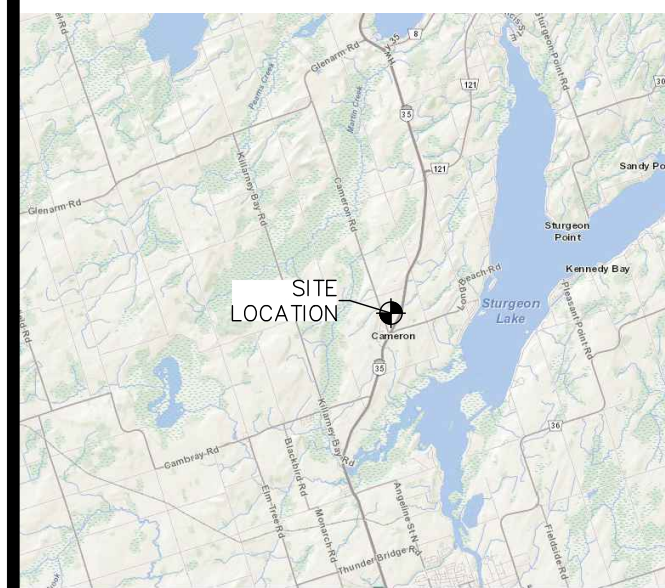
6 TYP. STEEL LINTEL IN MASONRY WALLS
SCALE 1:10

TABLE A: TYPICAL STEEL LINTELS - LOAD-BEARING MASONRY WALL		
WALL THICKNESS	ANGLE SPAN	DETAIL
90 (4") VENEER	L152x89x13	
140 (6")	2 - L127x76x13	
190 (8")	2 - L152x89x13	
240 (10")	2 - L178x102x13	
290 (12")	2 - L203x152x19	



7 STEEL ANGLE LINTEL DETAIL
SCALE 1:10

KEY PLAN



44.44352, -78.77678

ENGINEER'S SEAL:



DATE	REV.	REVISION	BY	APP'D
2025/03/21	0	ISSUED FOR TENDER	HD	FP

CLIENT:



CONSULTANT:



PROJECT TITLE:

FENELON TOWNSHIP
PUBLIC SCHOOL
CAMERON, ONTARIO

DRAWING TITLE:

RFT B25-03 STRUCTURAL
UPGRADE AND REPAIRS -
CONSTRUCTION DETAILS

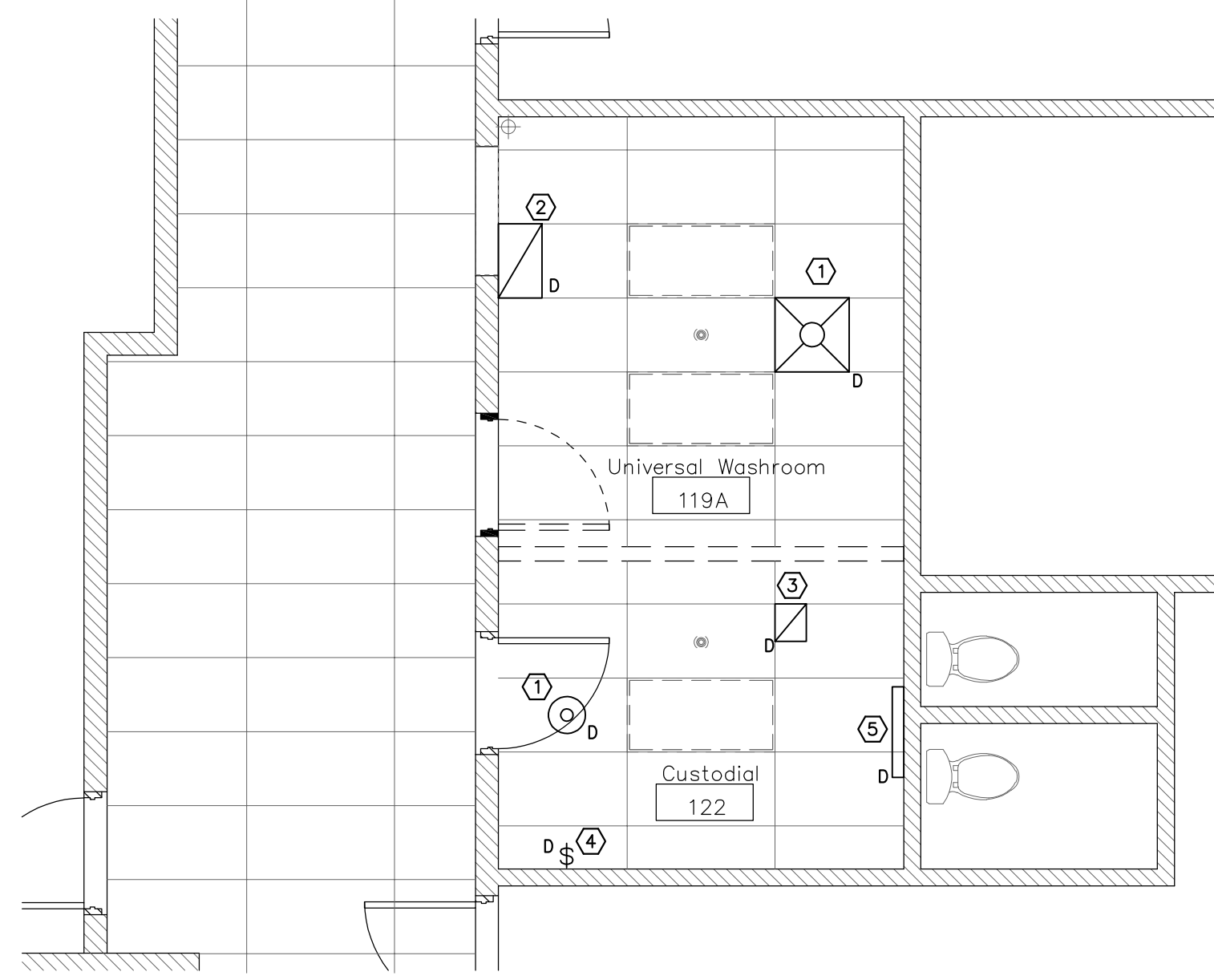
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AS NOTED 2025/03/21

SCALE DATE

25-0708 0 S2

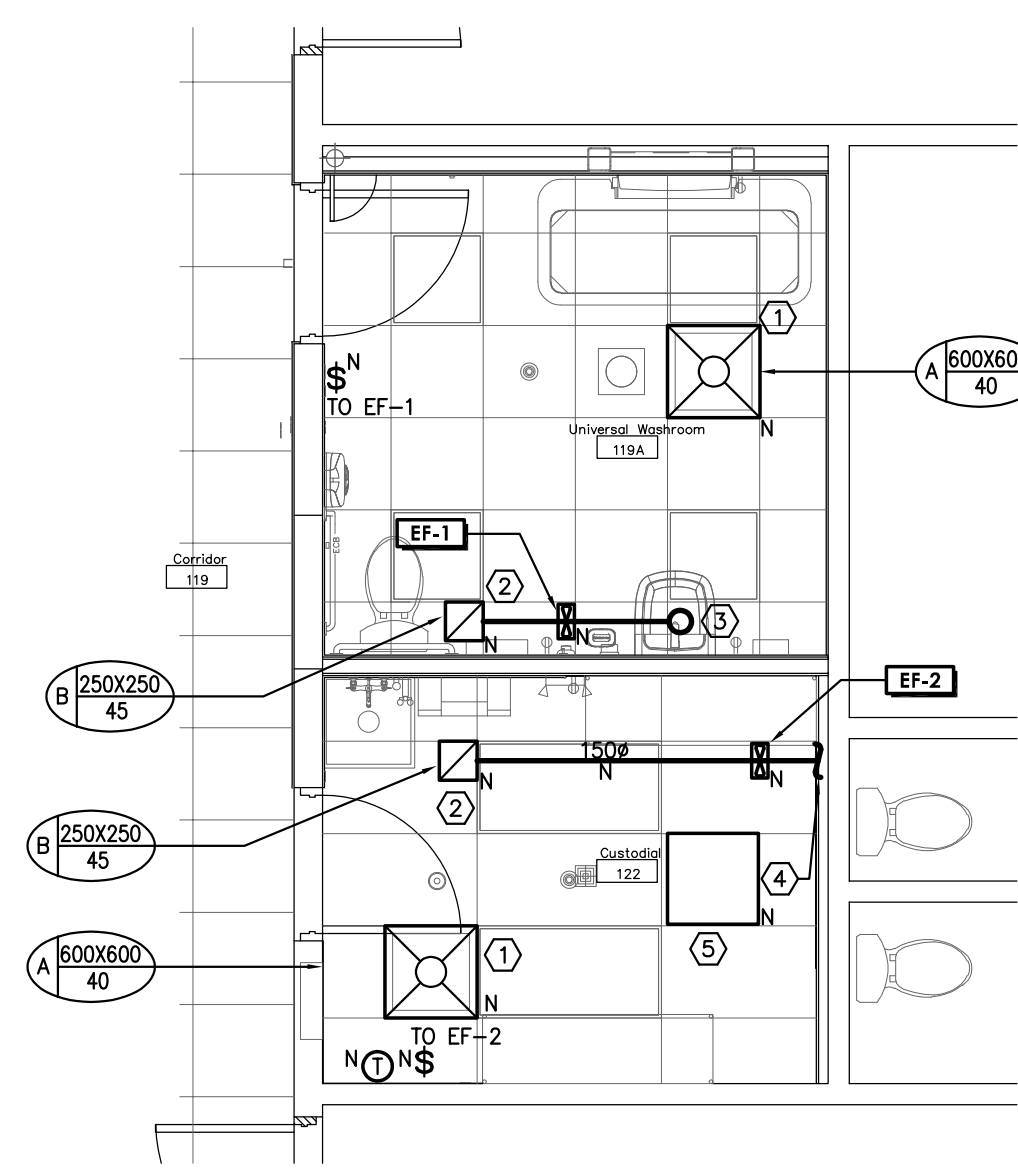
PROJECT No. REVISION DRAWING



- GENERAL NOTES:**
1. ALL MECHANICAL SERVICE/EQUIPMENT SHOWN ON THIS DRAWING SHALL BE EXISTING UNLESS OTHERWISE NOTED.
 2. ALL EXISTING MECHANICAL SERVICE/EQUIPMENT TO REMAIN UNLESS INDICATED OTHERWISE.
 3. ALL EXISTING AIR FLOW RATE AND DUCT SIZE INDICATED ON THIS DRAWING BASED ON BASE BLDG. EXISTING MECHANICAL SYSTEM DRAWING FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY EXACT LAYOUTS AND SIZES ON SITE.
 4. CONTRACTOR TO EXAMINE AND VERIFY EXISTING MECHANICAL SYSTEM CONDITIONS AND LOCATIONS ON SITE.

- DRAWING NOTES:**
- 1 EXISTING DIFFUSER TO BE REMOVED.
 - 2 EXISTING GRILLE TO BE REMOVED.
 - 3 EXISTING EXHAUST FAN TO BE REMOVED.
 - 4 EXISTING CONTROL TO THE EXISTING EXHAUST FAN TO BE REMOVED.
 - 5 EXISTING BASEBOARD HEATER TO BE REMOVED.

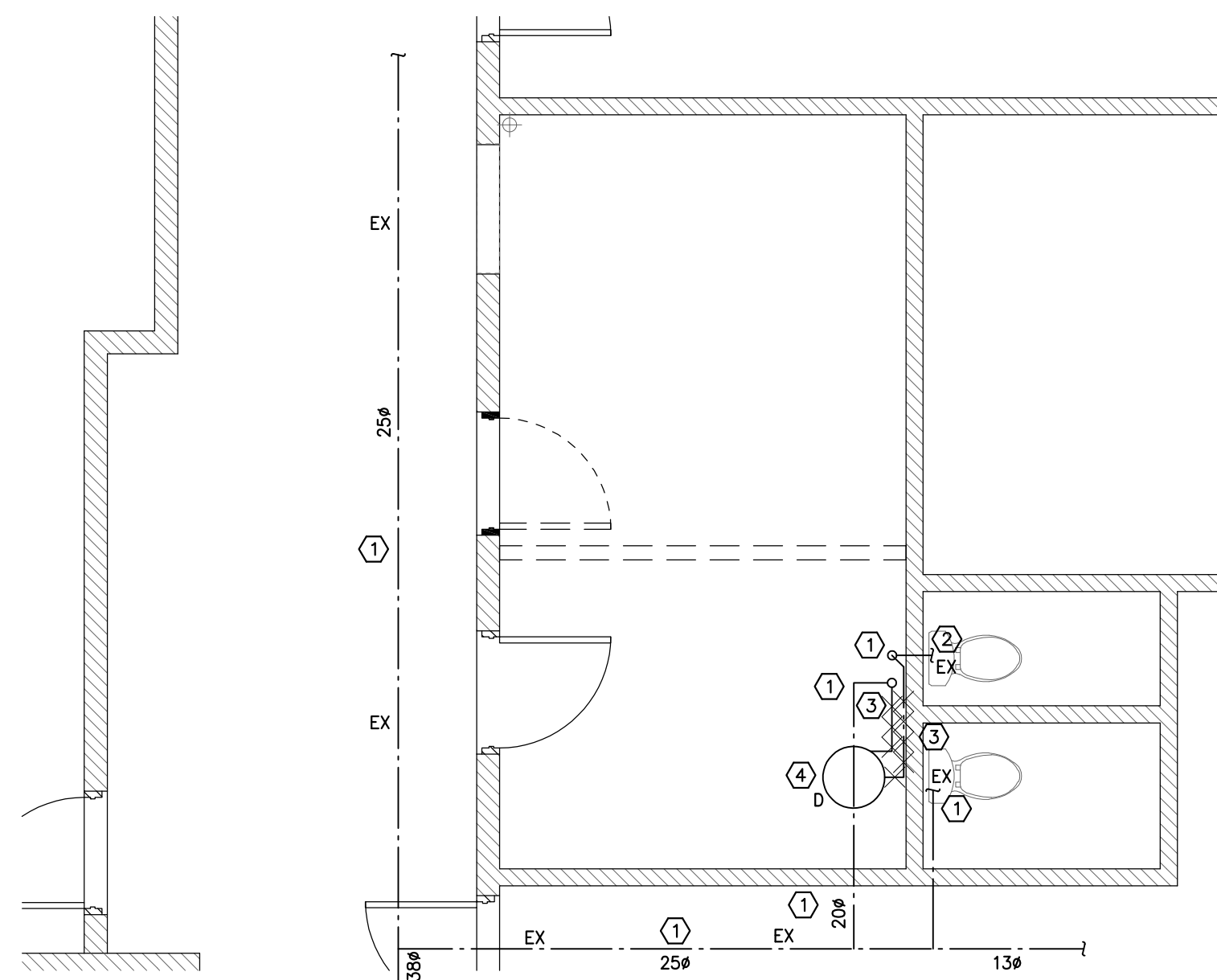
1 EXISTING HVAC LAYOUT – MECHANICAL
M-11 SCALE: 1:50



- GENERAL NOTES:**
1. ALL MECHANICAL SERVICE/EQUIPMENT SHOWN ON THIS DRAWING SHALL BE NEW UNLESS OTHERWISE NOTED.
 2. TEMPERATURE SENSORS SHALL BE NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 3. DIFFUSER DUCT RUN-OUTS SHALL BE THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
 4. RE-BALANCE AIR FLOW AS SHOWN ON DRAWING.
 5. COORDINATE ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF GRILLES AND DIFFUSERS.
 6. CONTRACTOR TO VERIFY EXISTING FIRE DAMPER LOCATIONS WITHIN SCOPE AREA. PROVIDE FIRE DAMPERS ON EXISTING DUCTS WHERE DUCTS PENETRATE FIRE SEPARATIONS WHEN REQUIRED.

- DRAWING NOTES:**
- 1 PROVIDE NEW FIRE RATED DIFFUSER. MODIFY EXISTING DUCT TO SUIT NEW DIFFUSER.
 - 2 PROVIDE NEW FIRE RATED GRILLE.
 - 3 150Ø EXHAUST AIR DUCT UP THROUGH ROOF C/W GOOSENECK.
 - 4 CONNECT NEW 150Ø EXHAUST DUCT TO EXISTING. MODIFY EXISTING EXHAUST DUCT TO SUIT NEW FAN.
 - 5 PROVIDE ELEC. CEILING HEATING PANEL. 375W, BY ELEC. DIV.

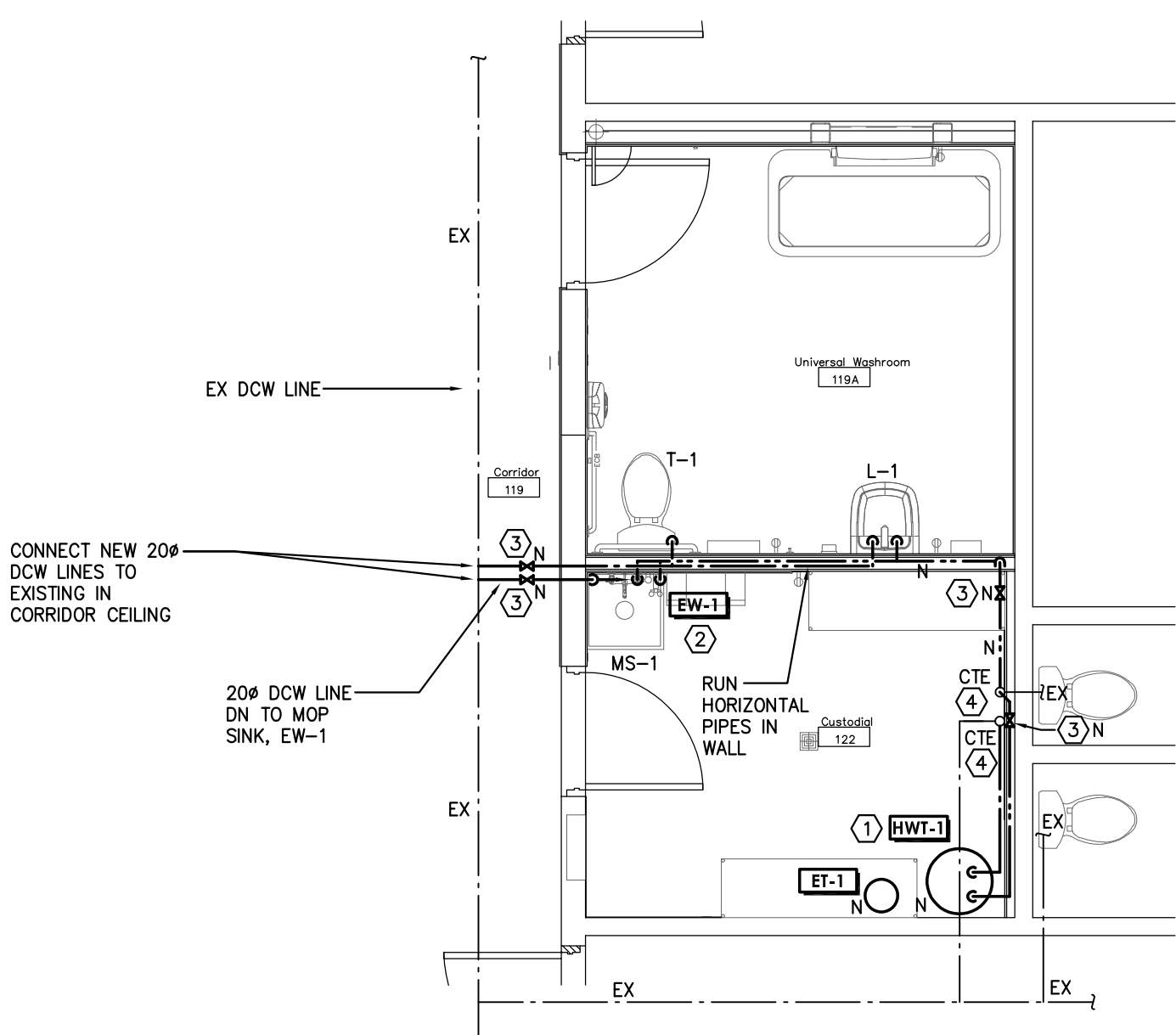
2 PROPOSED HVAC LAYOUT – MECHANICAL
M-11 SCALE: 1:50



- GENERAL NOTES:**
1. ALL MECHANICAL SERVICE/EQUIPMENT SHOWN ON THIS DRAWING SHALL BE EXISTING UNLESS OTHERWISE NOTED.
 2. ALL EXISTING MECHANICAL SERVICE/EQUIPMENT TO REMAIN UNLESS INDICATED OTHERWISE.
 3. LAYOUT AND SIZE OF EXISTING PIPING SHOWN ON DRAWING ARE BASED ON BASE BUILDING DRAWING FOR REFERENCE ONLY. CONTRACTOR SHALL EXAMINE AND VERIFY EXISTING MECHANICAL SYSTEM CONDITIONS AND LOCATIONS, INVERTS ON SITE.
 4. RELOCATE ALL EXISTING ACCESS PANELS WHERE AFFECTED BY THE WORK.
 5. ALL REMOVED FLUSH VALVES AND WASHFOUNTAINS SHALL BE RETURNED TO OWNER.
 6. CONTRACTOR SHALL VERIFY ON SITE EXACT LOCATION AND INVERT TO ENSURE THAT SAN. LINE MEETS SLOPE AND INVERT PRIOR TO CONSTRUCTION. SCAN SLAB TO VERIFY EXISTING SAN. PIPE UNDERGROUND CUT, PATCH AND REPAIR FLOOR SLAB TO MATCH EXISTING CONDITION.

- DRAWING NOTES:**
- 1 EXISTING DCW LINE TO REMAIN.
 - 2 EXISTING DHW LINE TO REMAIN.
 - 3 EXISTING DCW & DHW LINES TO BE REMOVED.
 - 4 EXISTING HWT TO BE REMOVED.

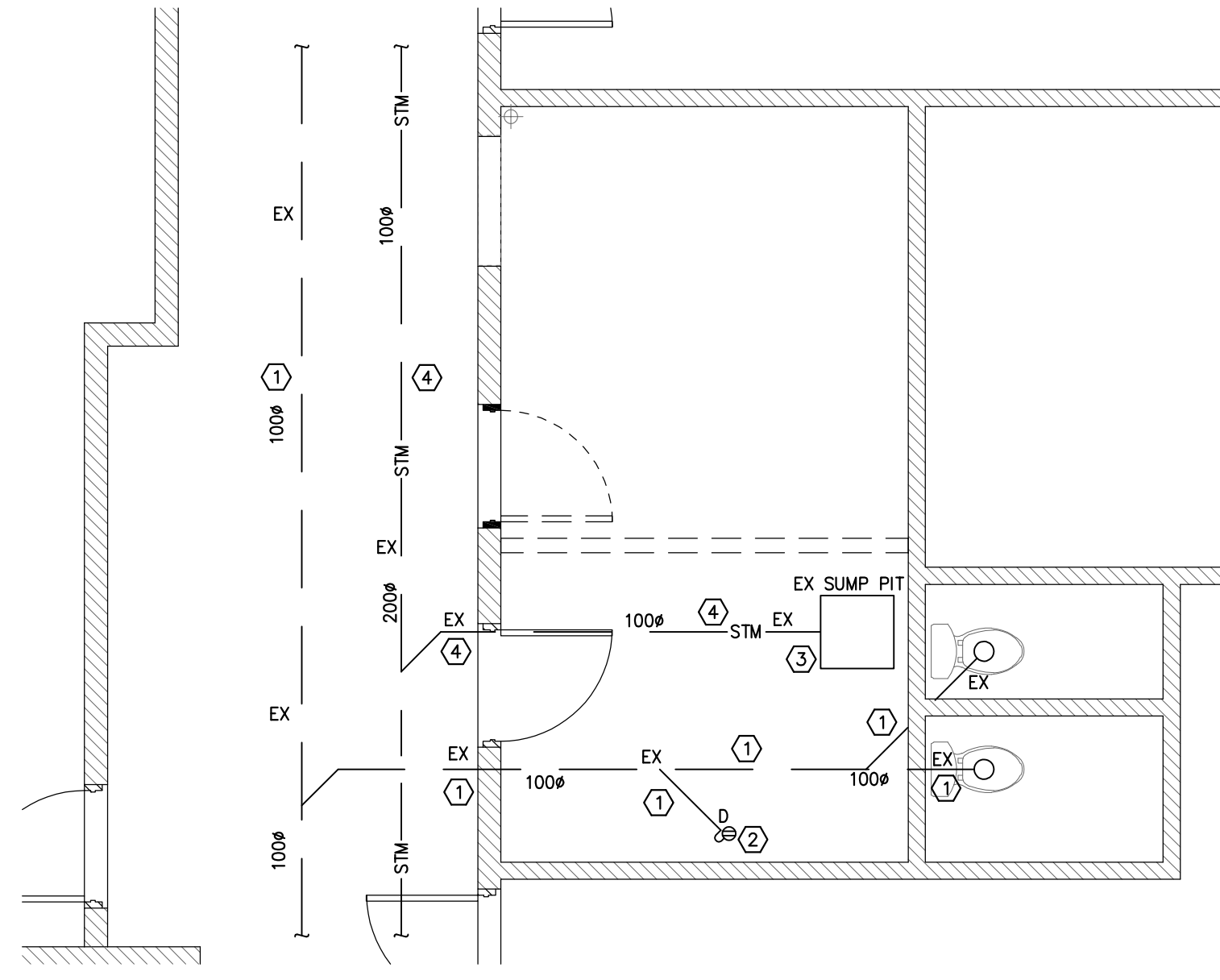
3 EXISTING PLUMBING LAYOUT – MECHANICAL
M-11 SCALE: 1:50



- GENERAL NOTES:**
1. ALL MECHANICAL SERVICE/EQUIPMENT SHOWN ON THIS DRAWING SHALL BE NEW UNLESS OTHERWISE NOTED.
 2. ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES SHALL BE MINIMUM 20Ø UNLESS INDICATED OTHERWISE.
 3. PROVIDE ISOLATING BALL VALVES ON MAIN AND/OR BRANCH LINES AND FOR ALL EQUIPMENT SERVED WITH HOT AND COLD WATER LINES. ALL VALVES SHALL BE SUITABLE FOR THE OPERATING PRESSURE OF THE SYSTEM IN WHICH THEY ARE INSTALLED.
 4. PROVIDE INSULATION FOR ALL COLD & HOT WATER PIPING C/W PVC JACKET.
 5. PROVIDE COMPLETE SANITARY VENT CONNECTION TO EXISTING VENT PIPES COMPLY WITH OBC REQUIREMENT.
 6. ALL SANITARY DRAINAGE BELOW GRADE SHALL BE MINIMUM 75Ø UNLESS INDICATED OTHERWISE.
 7. ALL NEW FLOOR DRAINS SHALL BE COMPLETE WITH TRAPS AND TRAP PRIMERS. CONTRACTOR TO VERIFY EXISTING TRAP PRIMER WHEN FLOOR DRAIN IS REPLACED. PROVIDE NEW TRAP PRIMER WHEN REQUIRED.

- DRAWING NOTES:**
- 1 PROVIDE NEW HOT WATER TANK. MODIFY EXISTING DCW & DHW LINES TO SUIT NEW TANK.
 - 2 NEW EYEWASH EW-1, CHEMICAL DISPENSER ARE PROVIDED BY TLD.SB.
 - 3 PROVIDE BALL VALVE ON DCW & DHW LINES.
 - 4 PROVIDE NEW DCW & DHW LINES TO BE CONNECTED TO EXISTING IN CEILING, MODIFY EXISTING LINES TO SUIT NEW.

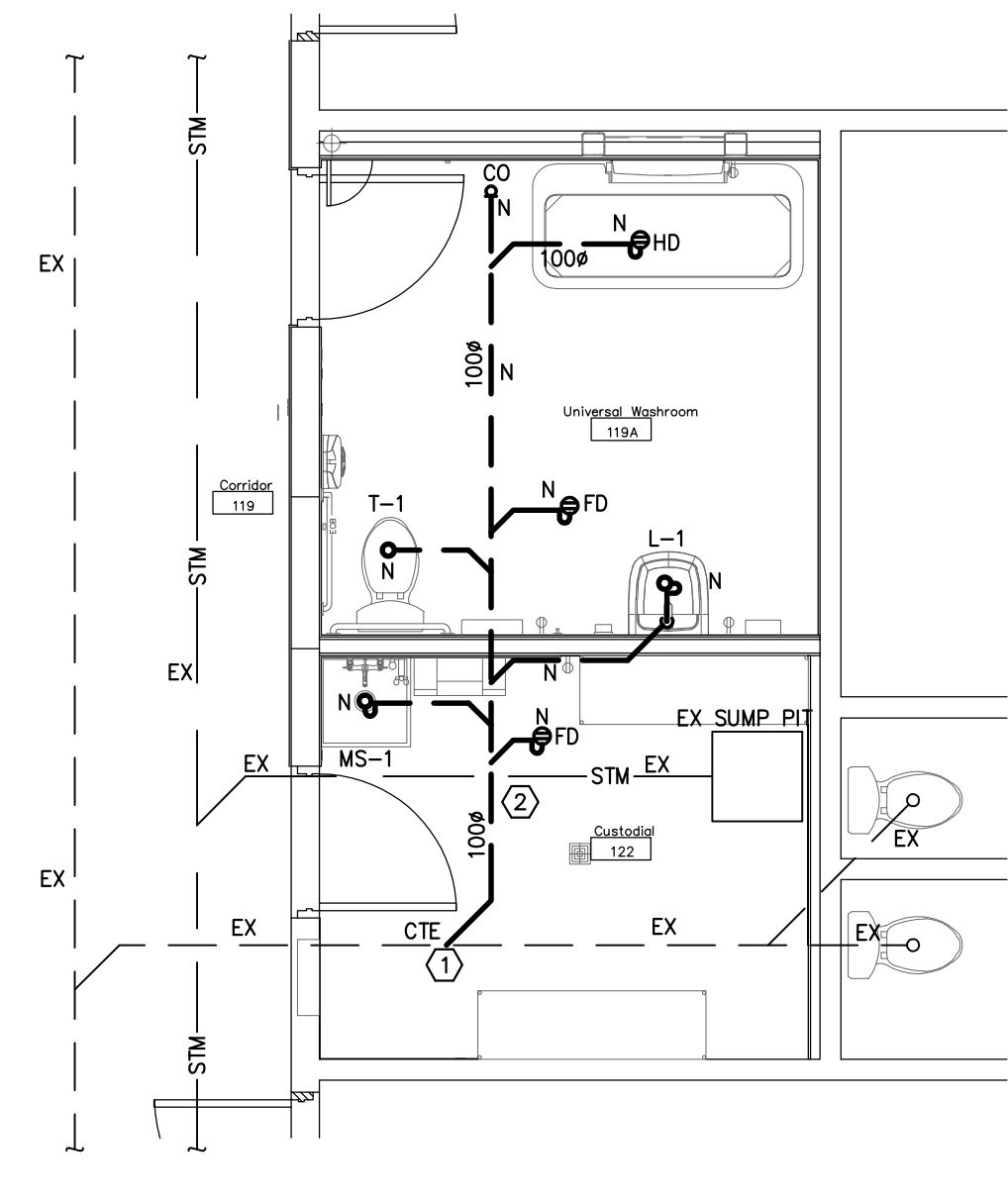
4 PROPOSED PLUMBING LAYOUT – MECHANICAL
M-11 SCALE: 1:50



- GENERAL NOTES:**
1. ALL MECHANICAL SERVICE/EQUIPMENT SHOWN ON THIS DRAWING SHALL BE EXISTING UNLESS OTHERWISE NOTED.
 2. ALL EXISTING MECHANICAL SERVICE/EQUIPMENT TO REMAIN UNLESS INDICATED OTHERWISE.
 3. LAYOUT AND SIZE OF EXISTING PIPING SHOWN ON DRAWING ARE BASED ON BASE BUILDING DRAWING FOR REFERENCE ONLY. CONTRACTOR SHALL EXAMINE AND VERIFY EXISTING MECHANICAL SYSTEM CONDITIONS AND LOCATIONS, INVERTS ON SITE.
 4. RELOCATE ALL EXISTING ACCESS PANELS WHERE AFFECTED BY THE WORK.
 5. ALL REMOVED FLUSH VALVES AND WASHFOUNTAINS SHALL BE RETURNED TO OWNER.
 6. CONTRACTOR SHALL VERIFY ON SITE EXACT LOCATION AND INVERT TO ENSURE THAT SAN. LINE MEETS SLOPE AND INVERT PRIOR TO CONSTRUCTION. SCAN SLAB TO VERIFY EXISTING SAN. PIPE UNDERGROUND CUT, PATCH AND REPAIR FLOOR SLAB TO MATCH EXISTING CONDITION.

- DRAWING NOTES:**
- 1 EXISTING SAN. LINE TO REMAIN.
 - 2 EXISTING HUB DRAIN TO BE REMOVED.
 - 3 EXISTING SUMP PIT OF STORM TO REMAIN.
 - 4 EXISTING STORM LINE TO REMAIN.

5 EXISTING DRAINAGE LAYOUT – MECHANICAL
M-11 SCALE: 1:50



- GENERAL NOTES:**
1. ALL MECHANICAL SERVICE/EQUIPMENT SHOWN ON THIS DRAWING SHALL BE NEW UNLESS OTHERWISE NOTED.
 2. ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES SHALL BE MINIMUM 20Ø UNLESS INDICATED OTHERWISE.
 3. PROVIDE ISOLATING BALL VALVES ON MAIN AND/OR BRANCH LINES AND FOR ALL EQUIPMENT SERVED WITH HOT AND COLD WATER LINES. ALL VALVES SHALL BE SUITABLE FOR THE OPERATING PRESSURE OF THE SYSTEM IN WHICH THEY ARE INSTALLED.
 4. PROVIDE INSULATION FOR ALL COLD & HOT WATER PIPING C/W PVC JACKET.
 5. PROVIDE COMPLETE SANITARY VENT CONNECTION TO EXISTING VENT PIPES COMPLY WITH OBC REQUIREMENT.
 6. ALL SANITARY DRAINAGE BELOW GRADE SHALL BE MINIMUM 75Ø UNLESS INDICATED OTHERWISE.
 7. ALL NEW FLOOR DRAINS SHALL BE COMPLETE WITH TRAPS AND TRAP PRIMERS. CONTRACTOR TO VERIFY EXISTING TRAP PRIMER WHEN FLOOR DRAIN IS REPLACED. PROVIDE NEW TRAP PRIMER WHEN REQUIRED.

- DRAWING NOTES:**
- 1 CONNECT NEW 100Ø SAN TO EXISTING TRANSITION OF CAST IRON TO ASBESTOS CEMENT PIPE. CONTRACTOR TO VERIFY EXACT LOCATION AND INVERT.
 - 2 VERIFY EXISTING STORM PIPE LOCATION AND INVERT, RUN NEW SANITARY LINE TO AVOID EXISTING STORM LINE.

6 PROPOSED DRAINAGE LAYOUT – MECHANICAL
M-11 SCALE: 1:50



JASON LOWE ARCHITECT

20 SOUTH DUFFERIN ST HUNTSVILLE ONTARIO P1H 1V7

Fenelon Township
Public School
Washroom
Renewal
RFT B25-03

50 Cameron Rd,
Cameron, ON,
K0M 1G0

TENDER and
BUILDING PERMIT

FEBRUARY 2025

Seal



HL ENGINEERING LTD
7725 BIRCHMOUNT RD, UNIT 46, MARKHAM,
ON L3R 9X3 905-713-0003 www.hlengineering.ca

DATE: FEB. 2025
PROJECT NO: 25004B
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Revisions

1. ISSUED FOR REVIEW 2025-03-03
2. ISSUED FOR TENDER 2025-03-21

Title

HVAC,
PLUMBING &
DRAINAGE
LAYOUTS -
MECHANICAL

Sheet

M-11

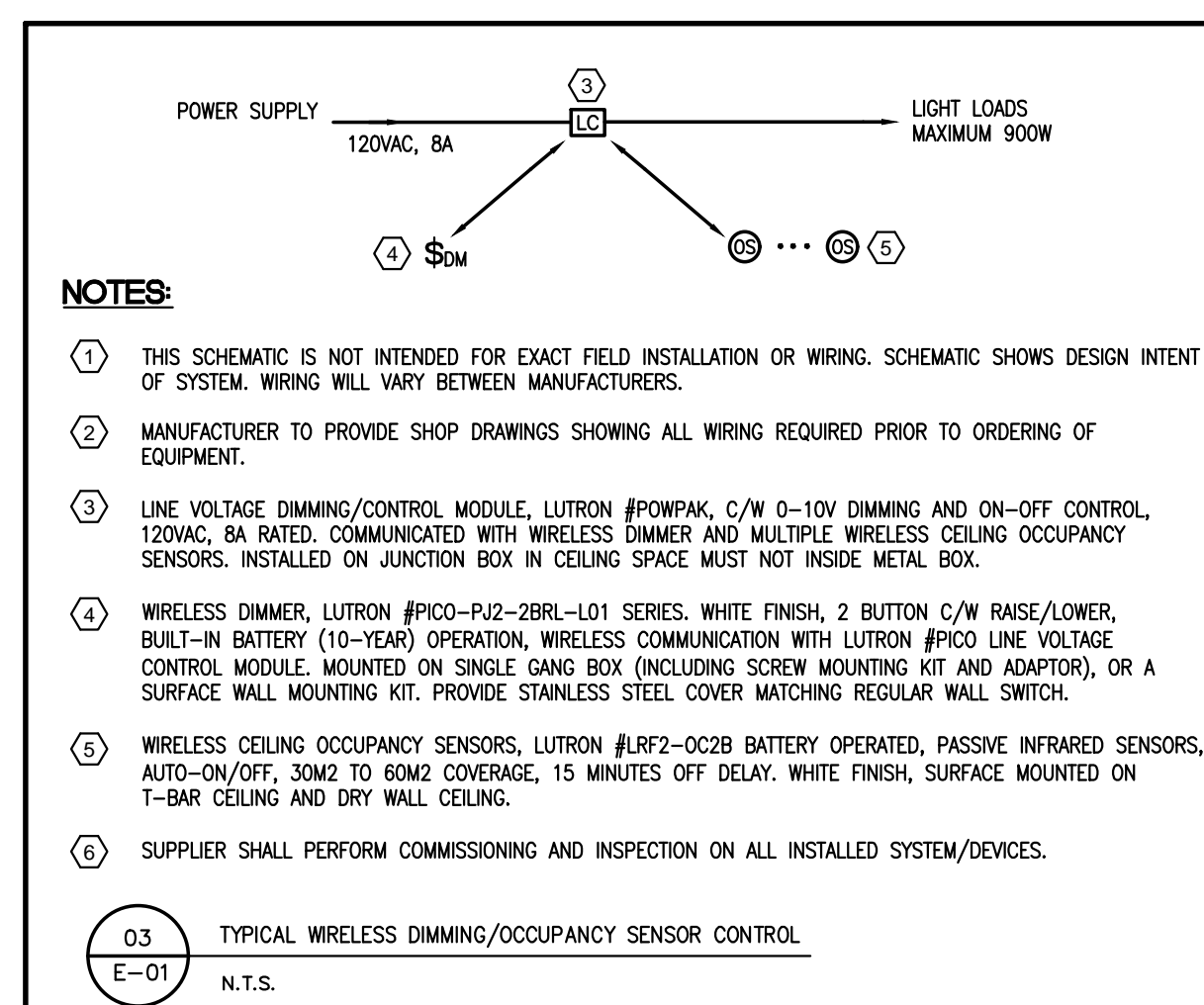
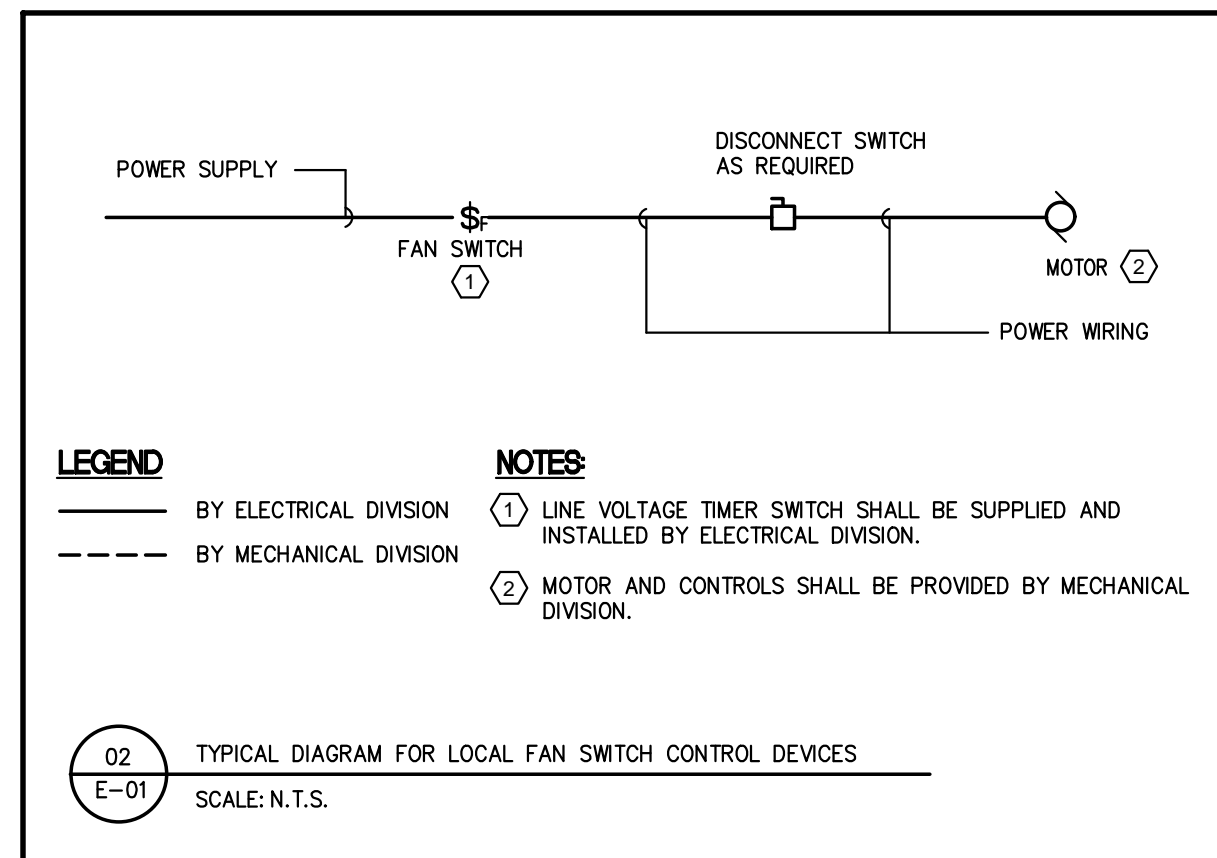
LIGHTING SYSTEM	
SYMBOL	DESCRIPTION
	FLUORESCENT OR LED LUMINAIRES, RECESSED IN CEILING, LETTER DENOTES FIXTURE TYPE PER SCHEDULE
	FLUORESCENT OR LED LUMINAIRES, SURFACE MOUNTED ON CEILING, LETTER DENOTES FIXTURE TYPE PER SCHEDULE
	FLUORESCENT OR LED LUMINAIRES, WALL MOUNTED, LETTER DENOTES FIXTURE TYPE PER SCHEDULE
	FLUORESCENT OR LED STRIP LUMINAIRES, LETTER DENOTES FIXTURE TYPE PER SCHEDULE
	120V SINGLE POLE TOGGLE SWITCHES, RESPECTIVELY WITH ONE, TWO, OR THREE GANG COVER PLATE, AMPERAGE RATING TO MATCH CIRCUIT BREAKER
	EXHAUST FAN SWITCH (SUPPLIED AND INSTALLED BY DIV. 16)
	CEILING MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL
	WALL MOUNTED OCCUPANCY SENSOR SWITCH FOR LIGHT
	EMERGENCY LIGHTING REMOTE HEADS, CEILING OR WALL MOUNTED, WITH DOUBLE OR SINGLE HEADS RESPECTIVELY
	EMERGENCY LIGHTING BATTERY UNIT
	EMERGENCY LIGHTING BATTERY UNIT C/W INTEGRAL HEADS
	EXIT SIGNS, SINGLE FACE OR DOUBLE FACES RESPECTIVELY, WITH DIRECTIONAL ARROWS AS SHOWN, CEILING MOUNTED
	EXIT SIGN, SINGLE FACE WITH DIRECTIONAL ARROWS AS SHOWN, WALL MOUNTED

POWER SYSTEM	
	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE, U-GROUND, CSA 5-15R TYPE (15A, 120V) UNLESS OTHERWISE NOTED
	15A, 125V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE (CSA 5-15R)
	RECEPTACLES AS ABOVE RESPECTIVELY, BUT MOUNTED AT 8" ABOVE COUNTER TOP, OR 42" AFF, OR AS NOTED
	20A, 125V DUPLEX RECEPTACLE (CSA 5-20R)
	20A, 125V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE, MOUNTED 150mm ABOVE COUNTER (CSA 5-20R)
	DIRECT CONNECTION TO EQUIPMENT AS NOTED.
	DIRECT CONNECTION C/W DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	UNFUSED DISCONNECT SWITCH
	STARTER (SUPPLIED BY DIV. 15 & WIRED BY DIV. 16)
	SURFACE MOUNTED PANEL
	HAND DRYER, SUPPLIED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR, 1,000W, 120V 1ϕ, MOUNTING HEIGHT: 1,100mm AFF.
	CLOCK

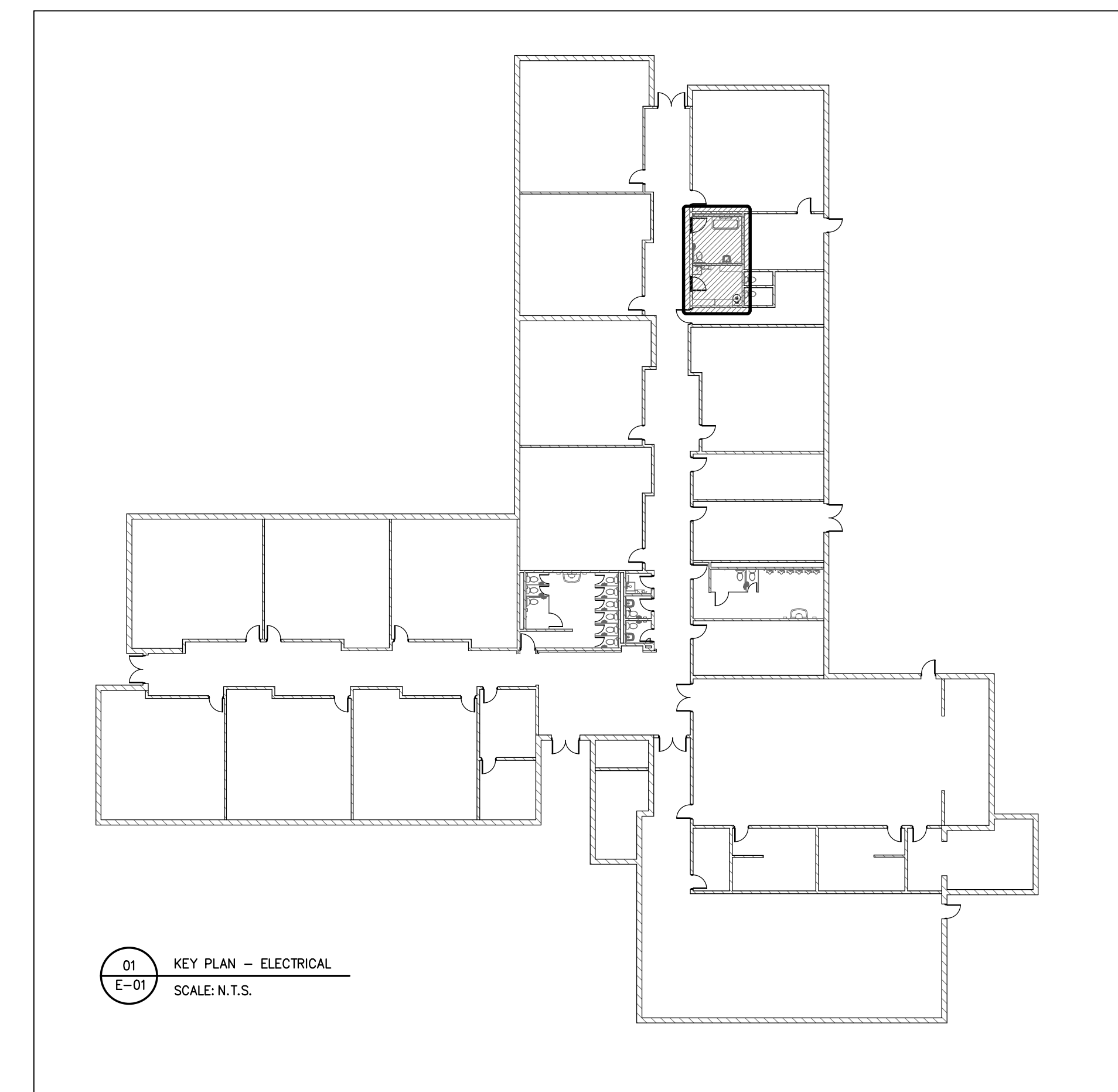
FIRE ALARM SYSTEM	
SYMBOL	DESCRIPTION
	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNTED
	FIRE ALARM HEAT DETECTOR, COMBINATION OF FIXED TEMPERATURE 57°C (135°F) AND RATE-OF-RISE 8°C/MIN TYPE, CEILING OR WALL MOUNTED
	FIRE ALARM HORN C/W STROBE LIGHT
	FIRE ALARM STROBE
	DOOR HOLDER

COMMUNICATION SYSTEM	
SYMBOL	DESCRIPTION
	WIRELESS ACCESS POINT, LOCATE SINGLE GANG BOX IN CEILING SPACE, UNLESS OTHERWISE NOTED.
	CEILING OR WALL RECESSED MOUNTED SINGLE GANG BOX FOR P.A. SPEAKER. "S" DENOTES SURFACE BOX FOR PENDENT SPEAKER.
	DATA OUTLET, WALL MOUNTED AT A STANDARD HEIGHT UNLESS NOTED OTHERWISE
	TELEPHONE OUTLET, WALL MOUNTED AT A STANDARD HEIGHT UNLESS NOTED OTHERWISE
	COMBINATION OF VOICE/DATA OUTLET, WALL MOUNTED AT A STANDARD HEIGHT UNLESS NOTED OTHERWISE
	AS ABOVE BUT MOUNTED AT A HEIGHT OF XXXXmm (XX") AFF OR AS NOTED ON DRAWING

ABBREVIATIONS	
ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
GFI	GROUND FAULT INTERRUPTER
TR	DENOTES TAMPER-RESISTANT TYPE RECEPTACLE
NIC	NOT IN CONTRACT
WP	WEATHER PROOF
WG	(DEVICE C/W) WIRE GUARD
F/A	FIRE ALARM
HD	HAND DRYER
W	WALL MOUNTED
x 2	DENOTES PROVIDE TWO OF THE SAME DEVICE
LP1-1	AS APPLIED TO CIRCUITING, DENOTES "PANEL 'LP-1', CIRCUIT # 1"
LP	LIGHTING PANEL
PP	POWER PANEL
EX	DENOTES EXISTING DEVICE(S) TO REMAIN
R	DENOTES EXISTING DEVICE(S) TO BE RELOCATED
D	DENOTES EXISTING DEVICE(S) TO BE REMOVED
RN	DENOTES EXISTING DEVICE(S) TO BE REMOVED AND REPLACED WITH NEW
RR	DENOTES EXISTING DEVICE(S) TO BE REMOVED AND RE-INSTALLED IN SAME LOCATION
RE	DENOTES EXISTING DEVICE(S) IN RELOCATED POSITION
N	DENOTES PROVIDE NEW DEVICE(S)
(N-1)	(NOTE: PROVIDE NEW DEVICE(S) IF NONE OF THE ABOVE ABBREVIATIONS ARE SHOWN WITH SYMBOL ON DWGS)
(2)	DENOTES DRAWING REFERENCE NOTES # 2
(1 E02)	DENOTES REFER TO DETAIL #1 ON DRAWING #E-02.



LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	LAMP	BALLAST	REMARKS
L20	2' x 2' T-BAR CEILING RECESSED LED PANEL, EXTRUDED ALUMINUM HOUSING, C/W ACRYLIC LENS, WHITE FINISH, C/W ONE HOUR FIRE RATED ENCLOSURE. APPLICATION: CLASSROOM, CORRIDOR	24W LED LAMP, 4000K 3000 LM	120V ELECTRONIC LED 0-10V DIMMING DRIVER	RAB DESIGN #CPL22-LED30 SERIES OR APPROVED EQUAL
L30	2' x 4' T-BAR CEILING RECESSED LED PANEL, EXTRUDED ALUMINUM HOUSING, C/W ACRYLIC LENS, WHITE FINISH, C/W ONE HOUR FIRE RATED ENCLOSURE. APPLICATION: CLASSROOM, CORRIDOR	45W LED LAMP, 4000K 5600 LM	120V ELECTRONIC LED 0-10V DIMMING DRIVER	RAB DESIGN #CPL24-LED45 SERIES OR APPROVED EQUAL
E2	EMERGENCY REMOTE LIGHT, C/W ONE(1) OR TWO(2) 6W LED HEADS, CEILING OR WALL SURFACE MOUNTED, 12VDC, WHITE FINISH.	2 X 6W LED		EMERGI-LITE #EF40 SERIES OR APPROVED EQUAL.
E3	EMERGENCY LIGHTING BATTERY UNIT, 1/2HR BATTERY, WALL MOUNTED, C/W ONE(1) OR TWO(2) 6W LED HEADS, 12VDC/120VAC, WHITE FINISH.	2 X 6W LED		EMERGI-LITE #ESL SERIES OR APPROVED EQUAL.



LIGHTING CONTROL RELAY/MODULE

1. CONTRACTOR SHALL MARK ON AS-BUILT DRAWINGS OF ALL LIGHTING CONTROL RELAYS/MODULES LOCATION, IN T-BAR OR DRY WALL CEILING SPACES, UNDER OPENING CEILINGS, AND/OR ON WALLS.

DRAWING LIST	
DWG. NO.	DRAWING TITLE
E-01	LEGEND, KEY PLAN AND DETAILS - ELECTRICAL
E-02	ELECTRICAL LAYOUTS, PANEL SCHEDULE & DETAILS



20 SOUTH DUFFERIN ST HUNTSVILLE ONTARIO P1H 1V7

Fenelon Township
 Public School
 Washroom
 Renewal
 RFT B25-03

50 Cameron Rd,
 Cameron, ON,
 K0M 1G0

**TENDER and
 BUILDING PERMIT**

FEBRUARY 2025

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**LEGEND, KEY
 PLAN AND
 DETAILS -
 ELECTRICAL**

Title

Sheet

E-01

**Fenelon Township
Public School
Washroom
Renewal
RFT B25-03**

50 Cameron Rd,
Cameron, ON,
K0M 1G0

**TENDER and
BUILDING PERMIT**

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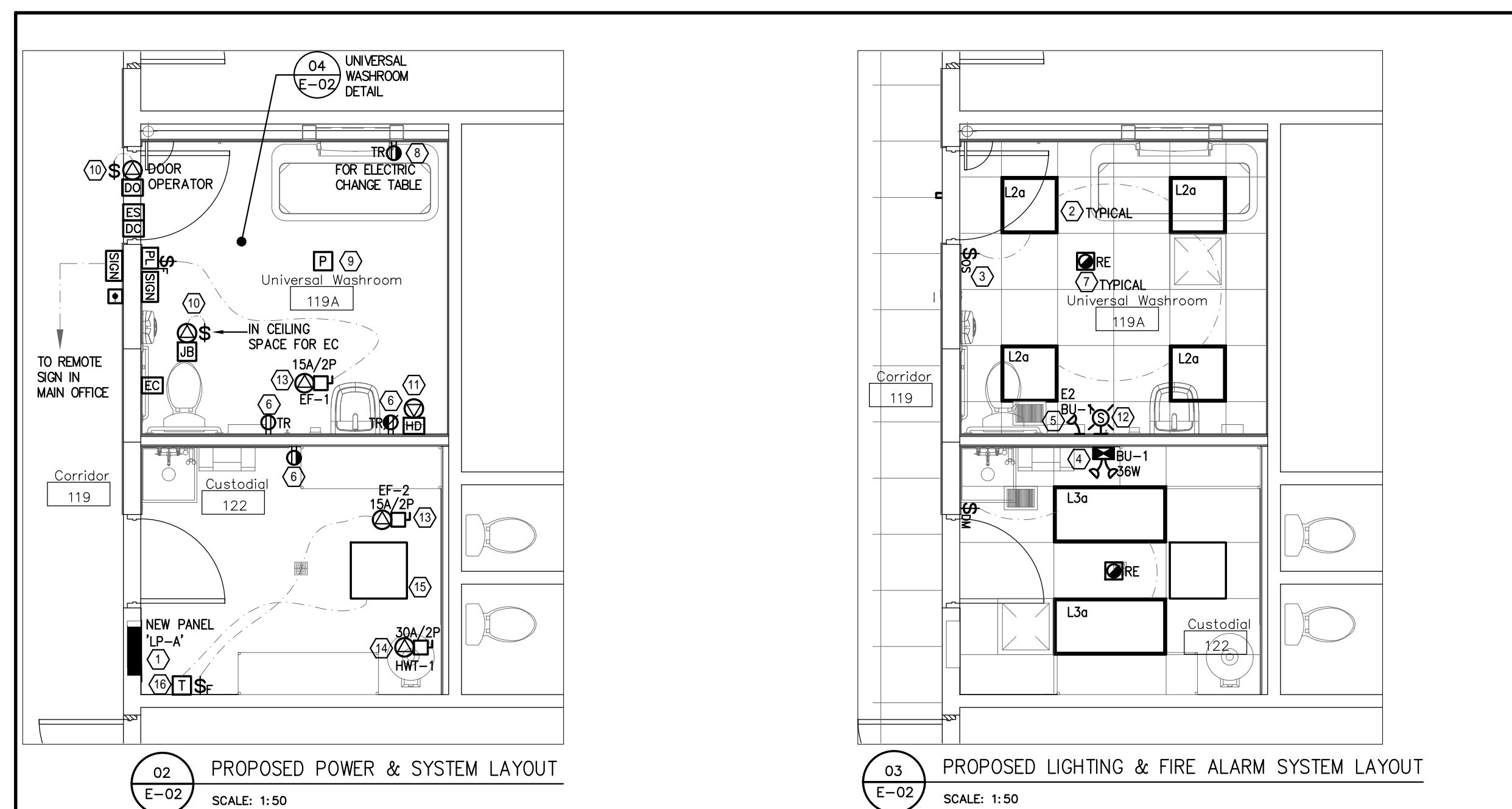
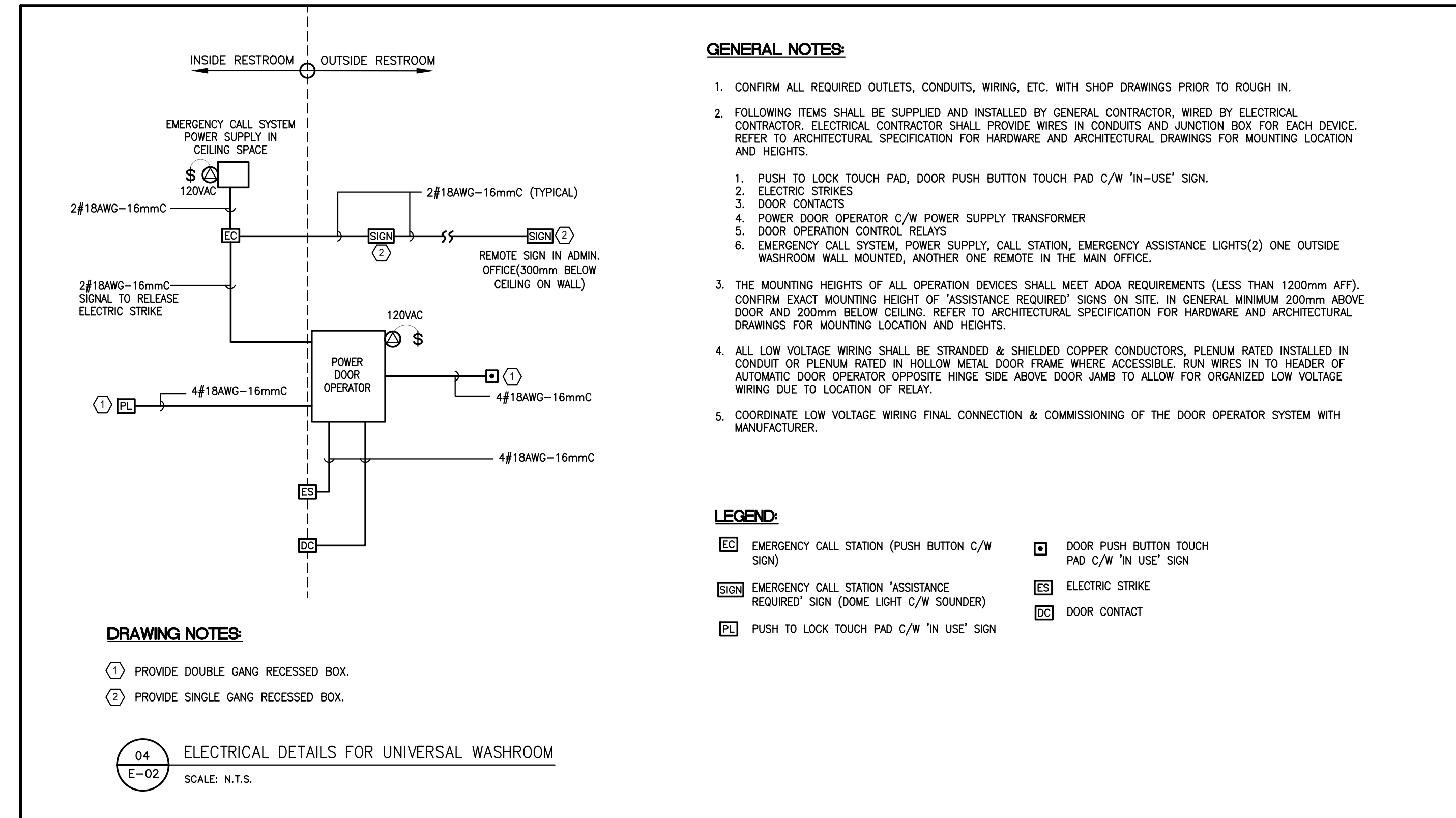
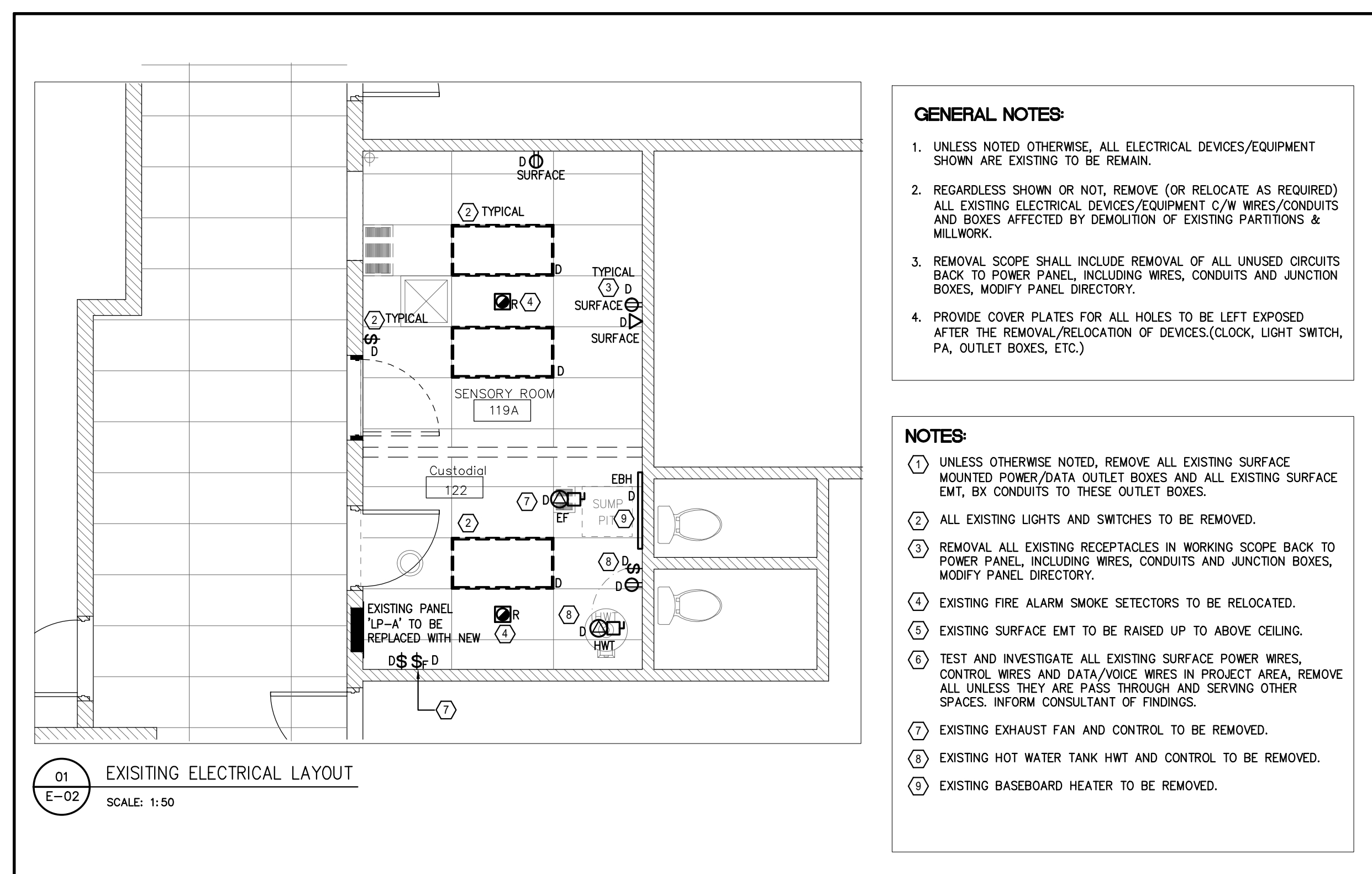
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**ELECTRICAL
LAYOUTS,
PANEL
SCHEDULE &
DETAILS**

Sheet

E-02



PANEL 'LP-A' (NEW)

VOLTS: 120/240V, 1PH, 3W
MAINS: 225A

LOAD DESCRIPTION	BRKR	WATTAGE	CIR	BUS	CIR	WATTAGE	BRKR	LOAD DESCRIPTION
① LIGHTS FOR ROOM #120	15A		1	2	15A			① LIGHTS FOR ROOM #118
① LIGHTS FOR ROOM #120	15A		3	4	15A			① LIGHTS FOR ROOM #118
① OUTLETS FOR ROOM #120	15A		5	6	15A			① OUTLETS FOR ROOM #118
① LIGHTS FOR ROOM #127	15A		7	8	15A			① LIGHTS FOR HALL
① LIGHTS FOR JAN, RM #123,125,139,140	15A		9	10	15A			① LIGHTS FOR ROOM #136,137,138
① OUTLETS FOR RM #127,140	15A		11	12	15A			① OUTLETS FOR ROOM #136 / SUMP PUMP
① LIGHTS FOR ROOM #127	15A		13	14	15A			① OUTLETS FOR ROOM #141 / EX FAN
① EXHAUST FANS - RM#119A,122	15A	160	15	16	20A			① EXISTING LOAD
① BASE BOARD HEATER	20A		17	18	20A			① EXISTING LOAD
			19	20	2P			
① DRYER KIND ROOM	15A		21	22	15A			① REC. FOR COPER+FREEZER
			23	24	2P			
① HAND DRYER - RM#119A	15A		25	26	15A			① CHANGE TABLE RECEPTACLE - RM#119A
RECEPTACLES - RM#119A,122	15A		27	28	15A			① EMERGENCY CALL, POWER DOOR- RM#119A
HWT-1 - RM#122	20A	375W	29	30	15A			① ELEC HEATING PANEL- RM#122
2#10+GRD-16mmC	2P		31	32				
			33	34				
			35	36				
			37	38				
			39	40				
			TOTAL					

CONNECTED LOAD: - (*) GROUND-FAULT INTERRUPTER CIRCUIT BREAKER
(**) C/W LOCK-OFF DEVICES
(***) ARC-FAULT INTERRUPTER CIRCUIT BREAKER

NOTES:

- RECONNECT ALL EXISTING LOAD TO NEW BREAKERS.