

ANNEX A - SPECIFICATIONS



HPDR B Division

GOCB

100 E White Hills Rd, St. John's, NL, A1A 3T5

Issued for Tender: November 30, 2018

Project # 140132533

DRAWING LIST Note: Review all drawings for any interdisciplinary work.

DWG #	Title
DWG. NO.	TITLE
ARCHITECTURAL	
A100	ARCHITECTURAL SPECIFICATIONS
A101	ARCHITECTURAL SPECIFICATIONS
A102	ARCHITECTURAL PROJECT NOTES AND LEGENDS
A201	FLOOR PLANS, ELEVATIONS AND INFORMATION
A701	DETAILS AND INTERIOR ELEVATION INFORMATION
MECHANICAL	
M001	LEGEND AND MECHANICAL SPECIFICATIONS
M100	LEVEL 1 HVAC AND PLUMBING PLANS, AND MECHANICAL SCHEDULES
ELECTRICAL	
E101	ELECTRICAL LEGEND AND SPECIFICATION
E102	RISER DIAGRAM, PARTIAL PLAN AND SCHEDULES
E103	PARTIAL FLOOR PLANS
E104	SCHEDULE AND SCHEMATICS

CONSULTANTS

Service	Consultant	Address
Prime Consultant/Architectural	Stantec Architecture Ltd.	141 Kelsey Dr., St. John's, NL A1B 0L2
Mechanical Engineering	Stantec Consulting	141 Kelsey Dr., St. John's, NL A1B 0L2
Electrical Engineering	Stantec Consulting	141 Kelsey Dr., St. John's, NL A1B 0L2

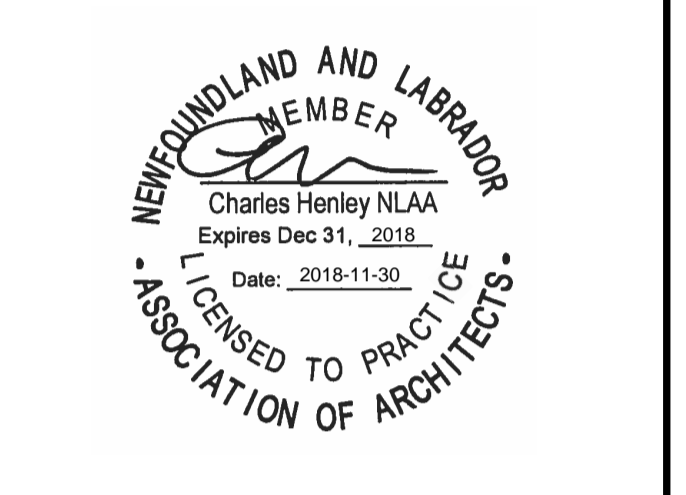


Table with 3 columns: no., description, date. Row 0: ISSUED FOR TENDER, NOV 30/18

project HPDR B Division
100 E White Hills Rd, St. John's, NL, A1A 3T5

drawing ARCHITECTURAL SPECIFICATIONS dessin

Table with 2 columns: field, value. Fields include: designed Designer (conçu), date (07/17/18), drawn Author (dessiné), approved Approver (approuvé), date (07/17/18), Tender (Soumission), PWGSC Project Manager / Administrateur de projets TPSGC (no. du projet), project number (140132533), drawing no. (A100), no. du dessin (A100)

HOLLOW METAL DOORS AND FRAMES
1 RECYCLED CONTENT OF STEEL PRODUCTS: POSTCONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRECONSUMER RECYCLED CONTENT NOT LESS THAN 25 PERCENT.
2 STEEL
.1 COMMERCIAL GRADE STEEL TO ASTM A924-97 (M-97), GALVANIZED TO ASTM A653-97 (M-97), COMMERCIAL STEEL (CS), TYPE B, A40 (ZF120) MINIMUM UNLESS OTHERWISE NOTED.

GLAZING (IN DOOR ASSEMBLY)
.1 GENERAL
.1 THICKNESS: UNLESS OTHERWISE INDICATED, PROVIDE 6 MM.
.2 TINT: UNLESS OTHERWISE INDICATED, PROVIDE CLEAR GLASS.

ACCESS DOORS
.1 SIZES: EXCEPT AS INDICATED OTHERWISE, TO BE MINIMUM SIZES AS FOLLOWS:
.1 FOR BODY ENTRY: 600 X 600 MM.
.2 FOR HAND ENTRY: 300 X 300 MM.

JOINT FIRE STOPPING SYSTEMS
1 WHERE REQUIRED, PROVIDE JOINT FIRE STOPPING SYSTEMS THAT ARE PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLIES IN OR BETWEEN WHICH JOINT FIRE STOPPING SYSTEMS ARE INSTALLED.

PENETRATION FIRESTOPPING
1 PROVIDE PENETRATION FIRESTOPPING THAT IS PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF CONSTRUCTION.

EMBEDDED FLASHING MATERIALS
1 METAL FLASHING: PROVIDE METAL FLASHING COMPLYING WITH SMACNA'S ARCHITECTURAL SHEET METAL MANUAL AND AS FOLLOWS:
.1 STAINLESS STEEL: ASTM A 240/A 240M, TYPE 304, 0.40 MM THICK.

CAVITY-WALL INSULATION
1 POLYISOCYANURATE BOARD INSULATION
.1 FACED: TO CANULC-S104 FOIL FACING, SHIPLAPPED EDGES, RSI 1.05 PER 25 MM.

METAL-FACED COMPOSITE WALL PANELS
1 GENERAL: PROVIDE FACTORY-FORMED AND -ASSEMBLED, METAL-FACED, COMPOSITE WALL PANELS FABRICATED FROM TWO METAL FACINGS BONDED, USING NO GLUES OR ADHESIVES, TO SOLID, EXTRUDED THERMOPLASTIC CORE.

MISCELLANEOUS METAL FRAMING
1 MISCELLANEOUS METAL FRAMING, GENERAL: ASTM C 645, COLD-FORMED METALLIC-COATED STEEL SHEET, ASTM A 653/A 653M, Z180 HOT-DIP GALVANIZED OR COATING WITH EQUIVALENT CORROSION RESISTANCE UNLESS OTHERWISE INDICATED.

SELF-ADHERING SHEET MEMBRANE VAPOUR PERMEABLE AIR BARRIER (PEEL AND STICK AIR/VAPOUR BARRIER)
1 SELF-ADHERING REINFORCED MODIFIED POLYOLEFIN TRI-LAMINATE WATER RESISTIVE, VAPOUR PERMEABLE, AIR BARRIER MEMBRANE TO THE FOLLOWING PROPERTIES:

JOINT SEALANTS
1 COMPATIBILITY: PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.

SPECIFICATIONS:
SITE DEMOLITION:
1.1 ADMINISTRATIVE REQUIREMENTS
1 SITE MEETINGS.
.1 CONVENE PRE-DEMOLITION MEETING ONE WEEK PRIOR TO BEGINNING WORK OF THIS SECTION TO:

1.2 ACTION AND INFORMATIONAL SUBMITTALS
1 SUBMIT IN ACCORDANCE WITH SECTION 01 33 00 - SUBMITTAL PROCEDURES.
2 SHOP DRAWINGS:
.1 SUBMIT DRAWINGS STAMPED AND SIGNED BY PROFESSIONAL ENGINEER REGISTERED OR LICENSED IN PROVINCE OF NEWFOUNDLAND AND LABRADOR, CANADA.

1.3 DELIVERY, STORAGE AND HANDLING
1 STORE AND MANAGE HAZARDOUS MATERIALS IN ACCORDANCE WITH SECTION 01 35 43 - ENVIRONMENTAL PROCEDURES.
2 STORAGE AND PROTECTION.
.1 PROTECT IN ACCORDANCE WITH SECTION 31 23 33.01 - EXCAVATING, TRENCHING AND BACKFILLING.

1.4 PREPARATION
1 INSPECT SITE WITH DEPARTMENTAL REPRESENTATIVE AND VERIFY EXTENT AND LOCATION OF ITEMS DESIGNATED FOR REMOVAL, DISPOSAL, RECYCLING, SALVAGE AND ITEMS TO REMAIN.

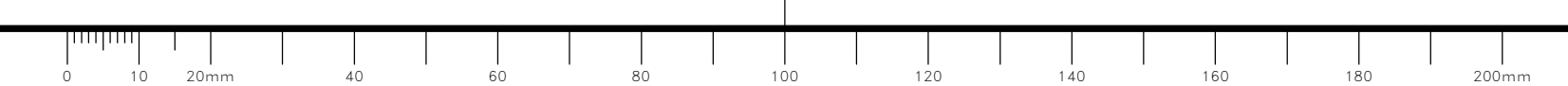
1.5 REMOVAL OPERATIONS
1 REMOVE ITEMS AS INDICATED
2 DO NOT DISTURB ITEMS DESIGNATED TO REMAIN IN PLACE.
3 REMOVAL OF PAVEMENTS AND CONCRETE.
.1 SQUARE UP ADJACENT SURFACES TO REMAIN IN PLACE BY SAW CUTTING OR OTHER METHOD APPROVED BY DEPARTMENTAL REPRESENTATIVE.

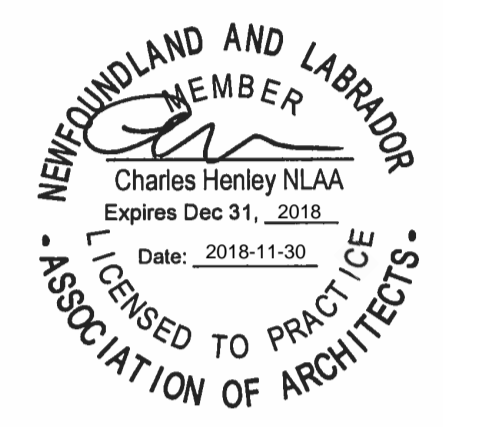
1.6 RESTORATION
1 RESTORE AREAS AND EXISTING WORKS OUTSIDE AREAS OF DEMOLITION TO MATCH CONDITION OF ADJACENT, UNDISTURBED AREAS.
2 USE SOIL TREATMENTS AND PROCEDURES WHICH ARE NOT HARMFUL TO HEALTH, ARE NOT INJURIOUS TO PLANTS, AND DO NOT ENDANGER WILDLIFE.

CONCRETE UNIT MASONRY:
1 STANDARD CONCRETE BLOCK UNITS: TO CAN/CSA-A165, SERIES (CAN/CSA-A165.1)
.1 CLASSIFICATION: H10/A/M
2 SIZE: MODULAR.

CONCRETE REINFORCEMENT
1 BAR REINFORCEMENT: TO CSA-A371 AND CAN/CSA G30.18
.1 FABRICATE REINFORCING IN ACCORDANCE WITH CAN/CSA-A23.1 AND REINFORCING STEEL MANUAL OF STANDARD PRACTICE BY THE REINFORCING STEEL INSTITUTE OF ONTARIO.

1.7 CONCRETE REINFORCEMENT
1 MASONRY JOINT REINFORCEMENT, GENERAL: CSA-A371 AND CSA G30.14
.1 INTERIOR WALLS: MILL- GALVANIZED, CARBON STEEL.
2 EXTERIOR WALLS: HOT-DIP GALVANIZED CARBON OR STAINLESS STEEL.





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revisions		date

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drawing ARCHITECTURAL SPECIFICATIONS dessin

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DOOR HARDWARE

GENERAL: REFER TO DOOR SCHEDULE FOR ADDITIONAL DOOR HARDWARE GROUP INFORMATION.

DOOR HARDWARE

- MORTISE LOCKSETS:
 - NOTED IN HARDWARE SCHEDULE AS FUNCTION ONLY (USE THE FOLLOWING LEVER OR KNOB, WITH RELATED FUNCTION PER SCHEDULE):
 - HEAVY DUTY MORTISE LOCKSETS TO ANSI A156.13, SERIES 1000, SECURITY GRADE 1.
 - FUNCTIONS AS FOLLOWS:
 - ANSI F15
 - ALL LOCKSETS ABOVE TO BE LEVER OR KNOB FUNCTION AS NOTED IN HARDWARE SCHEDULE, AND FINISHED IN SATIN CHROME.
 - ROUND ROSE, SATIN CHROME.
 - ANSI STANDARD STRIKES WITH ANSI BOX.
 - TRIM DESIGN:
 - LEVER DESIGN: SOLID HANDLE, ROUND BAR CONTOURED IN A 'C' SHAPE WITH ANGLE RETURN, SIMILAR IN DESIGN AND STYLE AS THE SARGENT 'J' LEVEL, SCHLAGE '93' OR CORBIN 'LUSTRA'.
 - KNOB DESIGN: TO BE ROUND SHAPE SIMILAR TO SARGENT 'B' STYLE.
 - CYLINDERS AND KEYING: CYLINDERS FROM SAME MANUFACTURER AS LOCKSET, 6 PIN MORTISED UNIT WITH A MINIMUM OF 10 DEPTHS, SUPPLIED WITH CONTRACTOR CONSTRUCTED CYLINDER, BITTED TO 1010 SEQUENCE AND KEED TO A COMMON KEY, REGISTERED WITH MANUFACTURER FOR USE BY RCMP ONLY, DESIGNATED AS SARGENT 'NG' OR SCHLAGE 'D' OR ABLOY.
 - ALL LOCKS IN EXHIBIT AND SENSITIVE AREAS MUST BE KEED AND INSTALLED BY CONTRACTOR.
 - FIRST CUT OF KEY MUST NOT BE GREATER THAN 50% OF BITTING DEPTH AVAILABLE FROM THE KEY PROFILE.
 - BUTTS AND HINGES TO ANSIBHMA A 156.1, 3 BUTTS PER DOOR PANEL UP TO 1000MM IN WIDTH, 4 BUTTS PER DOOR OVER 1001MM IN WIDTH:
 - EXIT DEVICES:
 - ALL EXIT DEVICES TO BE THREE POINT LATCHING SYSTEM.
 - TRIM DESIGN:
 - LEVER DESIGN: SOLID HANDLE, ROUND BAR CONTOURED IN A 'C' SHAPE WITH ANGLE RETURN, SIMILAR IN DESIGN AND STYLE AS CORBIN 'LUSTRA' OR VON DUPRIN '03'.
 - DOOR CLOSERS:
 - LISTED IN HARDWARE SCHEDULE AS D1:
 - DOOR CONTROLS (CLOSERS), TO ANSIBHMA A156.4, GRADE 1, HEAVY DUTY, NON HANDED, TOP JAMB MOUNTED, ALUMINUM BODY WITH ALUMINUM COVER, ADJUSTABLE THROUGH RANGES 1 TO 6, ADJUSTABLE BACKCHECK AND DELAYED ACTION, FINISHED TO ANSI 689.
 - ACCESSORY MOUNTING PLATE, TOP JAMB MOUNTING.
 - ACCEPTABLE PRODUCT: SARGENT 350-O X 351-B, LCN 4040-18G.
 - AUXILIARY TRIM & DEVICES:
 - LISTED IN HARDWARE SCHEDULE AS F1:
 - KICKPLATE TO ANSIBHMA A156.6, 200 X 1.3 MM THICK STAINLESS STEEL BY DOOR WIDTH LESS 50 MM LONG, 15 MM RADIUS CORNERS, SCREW ATTACHED, FINISHED TO ANSI 626.
 - ACCEPTABLE PRODUCT: HAGER 204SR, STANDARD METAL HARDWARE MANUFACTURING K10R.
 - DOOR CONTROLS: STOPS AND OVERHEAD HOLDERS:
 - LISTED IN HARDWARE SCHEDULE AS G1:
 - OVERHEAD STOP RELEASE DEVICES TO ANSIBHMA A156.8, HEAVY DUTY, NON-FRICTION STOP TYPE, SURFACE MOUNTED, EXTRUDED BRONZE TRACK 21 X 17.5 MM, EXTRUDED BRONZE ARM 19 X 4.8 MM, HEAVY DUTY TEMPERED STEEL SPRING, NON-HANDED, SIZED FOR DOOR LEAF WIDTH INDICATED, FINISHED TO ANSI 626.
 - ACCEPTABLE PRODUCT: SARGENT 594S, GLYNN-JOHNSON 104S OR APPROVED EQUAL.
 - WEATHERSTRIP SET:
 - LISTED IN HARDWARE SCHEDULE AS H1:
 - HEAD AND JAMB SEAL:
 - EXTRUDED ALUMINUM FRAME 25 MM WIDTH AND HOLLOW BULB NEOPRENE INSERT, CLEAR ANODIZED FINISH.
 - ACCEPTABLE PRODUCT: K.N. CROWDER W-2, HAGER 891S OR APPROVED EQUAL.
 - DOOR BOTTOM SEAL:
 - EXTRUDED ALUMINUM FRAME 25 MM WIDTH AND VINYL SWEEP, CLEAR ANODIZED FINISH.
 - ACCEPTABLE PRODUCT: K.N. CROWDER W13S, HAGER 750S OR APPROVED EQUAL.

RESINOUS (EPOXY) SEAMLESS FLOORING

- AVAILABLE PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK ARE LIMITED TO THE FOLLOWING AND ARE TO BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS:
 - EPXF1: EPOXY COATING
 - SIKAGARD DUROPLAST 100 N AS MARKETED BY SIKADUOCHEM
 - PROVIDE COVERED BASE - 150MM (6") HIGH COVERED BASE TO PROVIDE INTEGRAL SEAL AT THE JOINT BETWEEN FLOOR AND WALL.
 - COLOUR: TO BE CHOSEN BY DEPARTMENTAL REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE.
 - SYSTEM COMPONENTS: MANUFACTURER'S STANDARD COMPONENTS THAT ARE COMPATIBLE WITH EACH OTHER AND AS FOLLOWS:
 - PRIMER: MANUFACTURER'S RECOMMENDED PRIMER FOR USE ON CONCRETE SUBSTRATE.
 - TOPCOAT: CHEMICAL-RESISTANT SEALING OR FINISH COAT(S). STONHARD STONKOTE G54 OR APPROVED ALTERNATE.
 - TWO COMPONENT, GENERAL SERVICE EPOXY COATING FORMULATED TO INCREASE ABRASION AND CHEMICAL RESISTANCE.
 - FINISH: GLOSS
 - TO BE CHOSEN BY DEPARTMENTAL REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE
 - NUMBER OF COATS: AS PER MANUFACTURER'S RECOMMENDATIONS
- EPOXY WALL COATING
 - AVAILABLE PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK ARE LIMITED TO THE FOLLOWING AND ARE TO BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS:
 - EPXW1: EPOXY COATING
 - SIKAGARD DUROPLAST 150 AS MARKETED BY SIKA.
 - COLOUR: RAL7046 TELEGRAY 2.
 - ACCESSORY MATERIALS
 - USE PRIMERS AS RECOMMENDED BY MANUFACTURERS FOR SUBSTRATE.
 - PATCHING AND FILL MATERIAL: RESINOUS PRODUCT OF OR APPROVED BY RESINOUS WALL COATING MANUFACTURER AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED.
 - JOINT SEALANT: TYPE RECOMMENDED OR PRODUCED BY RESINOUS WALL COATING MANUFACTURER FOR TYPE OF SERVICE AND JOINT CONDITION INDICATED.
- INTERIOR PAINTING
 - MATERIALS
 - PAINT MATERIALS LISTED IN THE MPI APPROVED PRODUCTS LIST (APL) ARE ACCEPTABLE FOR USE ON THIS PROJECT.
 - PAINT MATERIALS FOR PAINT SYSTEMS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER.
 - LOW ODOR PRODUCTS: WHENEVER POSSIBLE, SELECT PRODUCTS EXHIBITING LOW ODOR CHARACTERISTICS. IF TWO PRODUCTS ARE OTHERWISE EQUIVALENT, SELECT THE PRODUCT WITH THE LOWEST ODOR. ONLY QUALIFIED PRODUCTS WITH E2 OR E3 "ENVIRONMENTALLY FRIENDLY" RATINGS ARE ACCEPTABLE FOR USE ON THIS PROJECT.
 - PAINTS, COATINGS, ADHESIVES, SOLVENTS, CLEANERS, LUBRICANTS, AND OTHER FLUIDS, SHALL:
 - BE WATER-BASED, WATER SOLUBLE, WATER CLEAN-UP.
 - BE NON-FLAMMABLE.
 - BE MANUFACTURED WITHOUT COMPOUNDS WHICH CONTRIBUTE TO OZONE DEPLETION IN THE UPPER ATMOSPHERE.
 - BE MANUFACTURED WITHOUT COMPOUNDS WHICH CONTRIBUTE TO SMOG IN THE LOWER ATMOSPHERE.
 - DO NOT CONTAIN METHYLENE CHLORIDE, CHLORINATED HYDROCARBONS, TOXIC METAL PIGMENTS.
 - WATER-BORNE SURFACE COATINGS MUST BE MANUFACTURED AND TRANSPORTED IN A MANNER THAT STEPS OF PROCESS, INCLUDING DISPOSAL OF WASTE PRODUCTS ARISING THEREFROM, WILL MEET REQUIREMENTS OF APPLICABLE GOVERNMENTAL ACTS, BY-LAWS AND REGULATIONS INCLUDING, FOR FACILITIES LOCATED IN CANADA, FISHERIES ACT AND CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA).
 - WATER-BORNE SURFACE COATINGS MUST NOT BE FORMULATED OR MANUFACTURED WITH AROMATIC SOLVENTS, FORMALDEHYDE, HALOGENATED SOLVENTS, MERCURY, LEAD, CADMIUM, HEXAVALENT CHROMIUM OR THEIR COMPOUNDS.
 - WATER-BORNE SURFACE COATINGS MUST HAVE A FLASH POINT OF 61.0°C OR GREATER.
 - BOTH WATER-BORNE SURFACE COATINGS AND RECYCLED WATER-BORNE SURFACE COATINGS MUST BE MADE BY A PROCESS THAT DOES NOT RELEASE:
 - MATTER IN UNDILUTED PRODUCTION PLANT EFFLUENT GENERATING A "BIOCHEMICAL OXYGEN DEMAND" (BOD) IN EXCESS OF 15 MG/L TO A NATURAL WATERCOURSE OR A SEWAGE TREATMENT FACILITY LACKING SECONDARY TREATMENT.
 - TOTAL SUSPENDED SOLIDS (TSS) IN UNDILUTED PRODUCTION PLANT EFFLUENT IN EXCESS OF 15 MG/L TO A NATURAL WATERCOURSE OR A SEWAGE TREATMENT FACILITY LACKING SECONDARY TREATMENT.
 - WATER-BORNE PAINTS AND STAINS, AND WATER BORNE VARNISHES MUST MEET A MINIMUM "ENVIRONMENTALLY FRIENDLY" E2 RATING.
 - COLOURS
 - OWNER'S REPRESENTATIVE WILL PROVIDE COLOUR SCHEDULE AFTER CONTRACT AWARD.
 - SELECTION OF COLOURS WILL BE FROM MANUFACTURERS FULL RANGE OF COLOURS.
 - WHERE SPECIFIC PRODUCTS ARE AVAILABLE IN A RESTRICTED RANGE OF COLOURS, SELECTION WILL BE BASED ON THE LIMITED RANGE.
 - SECOND COAT IN A THREE COAT SYSTEM TO BE TINTED SLIGHTLY LIGHTER COLOUR THAN TOP COAT TO SHOW VISIBLE DIFFERENCE BETWEEN COATS.
 - FOR DEEP AND ULTRA-DEEP COLOURS, 4 COATS MAY BE REQUIRED.

PLASTIC LAMINATE

- COLOURS, PATTERNS, AND FINISHES: PROVIDE MATERIALS AND PRODUCTS THAT RESULT IN COLOURS AND TEXTURES OF EXPOSED LAMINATE SURFACES COMPLYING WITH THE FOLLOWING REQUIREMENTS:
 - PLAM1:
 - COLOUR AND TYPE: MID TONED, STRAIGHT GRAINED WOOD FINISH TO BE CHOSEN BY DEPARTMENTAL REPRESENTATIVE FROM MANUFACTURER'S WOOD GRAIN LINE OF PRODUCTS, COMPLETE WITH SOFTGRAIN FINISH AND MANUFACTURER'S SCRATCH AND SUFF RESISTANT TECHNOLOGY.
 - PLAM2:
 - CHEMICAL RESISTANT PLASTIC LAMINATE.
 - COLOUR: DARK GREY COLOUR TO BE CHOSEN BY DEPARTMENTAL REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE.
 - TYPE AND THICKNESS: COMPACT SUBSTRATE GRADE R3; THICKNESS 25MM-FINISH CT.
 - MEL1:
 - COLOUR: LIGHT GREY COLOUR WITH SUEDE FINISH TO BE CHOSEN BY DEPARTMENTAL REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE.
 - TYPE AND THICKNESS: 19 MM THERMALLY FUSED, LIGHT GREY TO MATCH FLAKEBOARD SF208 FOLKSTONE C/W 3MM GREY PVC EDGING TO MATCH MELAMINE COLOUR.
- HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD 3, GRADES AS INDICATED OR IF NOT INDICATED, AS REQUIRED BY WOODWORK QUALITY STANDARD.
- LAMINATE CLADDING FOR EXPOSED SURFACES:
 - HORIZONTAL SURFACES: GRADE HGS OR BETTER.
 - POSTFORMED SURFACES: GRADE HGP.
 - VERTICAL SURFACES: GRADE VGS OR BETTER.
 - EDGES: PVC EDGE BANDING, 2 MM THICK MINIMUM, MATCHING LAMINATE IN COLOUR, PATTERN, AND FINISH.
 - PATTERN DIRECTION: VERTICALLY FOR DRAWER FRONTS, DOORS, AND FIXED PANELS, UNLESS NOTED OTHERWISE.

ARCHITECTURAL WOODWORKING

- WOOD PRODUCTS: PROVIDE MATERIALS THAT COMPLY WITH REQUIREMENTS OF REFERENCED QUALITY STANDARD FOR EACH TYPE OF WOODWORK AND QUALITY GRADE SPECIFIED UNLESS OTHERWISE INDICATED.
 - DO NOT USE PLAIN-SAWN SOFTWOOD LUMBER WITH EXPOSED, FLAT SURFACES MORE THAN 75 MM WIDE.
 - WOOD MOISTURE CONTENT: 8 TO 13 PERCENT.
 - MACHINE STRESS-RATED LUMBER IS ACCEPTABLE FOR ALL PURPOSES.
 - THE MANUFACTURING PROCESS MUST ADHERE TO LIFECYCLE ASSESSMENT (LCA) STANDARDS AS PER ISO 14040/14041 LCA STANDARD, CSA Z760 94 LIFE CYCLE ASSESSMENT.
 - HARDWOOD LUMBER: MAPLE OR BIRCH SPECIES, IN ACCORDANCE WITH FOLLOWING STANDARDS:
 - NATIONAL HARDWOOD LUMBER ASSOCIATION (NHLA).
 - AWMAC CUSTOM GRADE, MOISTURE CONTENT AS SPECIFIED.
 - DOUGLAS FIR PLYWOOD (DFP): TO CSA O121, STANDARD CONSTRUCTION.
 - HARDWOOD PLYWOOD (VENEER-FACED PANEL PRODUCTS):
 - TO CSA O115, BIRCH OR MAPLE SPECIES TO AVMAC STAIN GRADE, NATURAL SELECT WHITE.
 - BALTIC BIRCH PLYWOOD: INTERIOR GRADE BB/IR TO GOST 3916.1-96 STANDARDS.
 - HARDBOARD
 - TO CANCGSB-11.3.
 - MANUFACTURED SUCH THAT FORMALDEHYDE EMISSIONS DO NOT EXCEED 0.15 PPM (180 MICROG/M3) WHEN TESTED IN ACCORDANCE WITH ASTM E1333.
 - IF MANUFACTURED USING A WET PROCESS:
 - BE MADE BY A PROCESS THAT DOES NOT RELEASE MATTER IN THE UNDILUTED PRODUCT PLANT EFFLUENT GENERATING A BODS IN EXCESS OF 50 MG/L TO A NATURAL WATERCOURSE OR A SEWAGE TREATMENT FACILITY LACKING SECONDARY TREATMENT;
 - BE MADE BY A PROCESS THAT DOES NOT RELEASE TSS IN EXCESS OF 60 MG/L TO A NATURAL WATERCOURSE OR A SEWAGE TREATMENT FACILITY LACKING SECONDARY TREATMENT;
 - CONTAIN AT LEAST 50 % RECYCLED MATERIALS.

POST-AND-BEAM METAL STORAGE SHELVING

- GENERAL: FACTORY-FORMED, FIELD-ASSEMBLED, FREESTANDING, POST-AND-BEAM METAL STORAGE SHELVING SYSTEM.
 - LOAD-CARRYING CAPACITY PER SHELF: NOT LESS THAN 90.7 KG, UNLESS OTHERWISE INDICATED.
 - POSTS: FABRICATED FROM COLD-ROLLED STEEL, IN MANUFACTURER'S STANDARD SHAPE; WITH PERFORATIONS AT 38 MM O.C. TO RECEIVE BEAM-TO-POST CONNECTORS.
 - STEEL THICKNESS, NOMINAL, AS REQUIRED FOR LOAD-CARRYING CAPACITY PER SHELF AND NUMBER OF SHELVES:
 - ADD-ON SHELF POSTS: FABRICATED FROM HOT-ROLLED STEEL, T-SHAPE; PERFORATED TO MATCH MAIN POSTS AND OF SAME THICKNESS.
 - POST BASE: COLD-ROLLED STEEL FLOOR PLATE, DRILLED FOR FLOOR ANCHORS.
 - BEAMS: FABRICATED FROM COLD-ROLLED STEEL, IN MANUFACTURER'S STANDARD SHAPE; WITH PROJECTING MANUFACTURER'S STANDARD BEAM-TO-POST CONNECTORS AT EACH END DESIGNED TO ENGAGE POSTS. PROVIDE BEAM AT EACH SIDE OF EACH SHELF, WITH CENTER SUPPORTS AS REQUIRED FOR LOAD-CARRYING CAPACITY OF SHELF.
 - STEEL THICKNESS, NOMINAL: AS REQUIRED FOR LOAD-CARRYING CAPACITY PER SHELF.
 - PROVIDE TOP AND BOTTOM SHELF BEAMS WITH DOUBLE BEAM-TO-POST CONNECTORS AND INTERMEDIATE SHELF BEAMS WITH SINGLE BEAM-TO-POST CONNECTORS.
 - PROVIDE BEAMS FOR FIVE SHELVES PER SHELVING UNIT IN ADDITION TO TOP AND BOTTOM SHELF BEAMS, UNLESS OTHERWISE NOTED.
 - SHELVES: CONTRACTOR'S CHOICE OF THE FOLLOWING, UNLESS OTHERWISE NOTED.
 - FLAT METAL SHELVES: FABRICATED FROM STEEL SHEET AS FOLLOWS:
 - STEEL SHEET THICKNESS, NOMINAL: AS REQUIRED FOR LOAD-CARRYING CAPACITY PER SHELF.
 - FABRICATE FRONTS AND BACKS OF SHELVES WITH BOX-FORMED EDGES, WITH CORNERS LAPPED AND WELDED.
 - RIBBED-METAL-DECKING SHELVES: FABRICATED FROM 0.91-MM-NOMINAL THICKNESS STEEL SHEET.
 - WIRE SHELVES: WELDED STEEL WIRE, WITH MANUFACTURER'S STANDARD OPENINGS.
 - SHELF QUANTITY: FIVE SHELVES PER SHELVING UNIT IN ADDITION TO TOP AND BOTTOM SHELF, UNLESS OTHERWISE INDICATED.
 - SIZE: REFER TO DRAWINGS FOR SIZES AND LOCATIONS.
 - ACCESSORIES:
 - TIE PLATES: COLD-ROLLED STEEL, FINISHED TO MATCH POSTS; DESIGNED FOR JOINING POSTS OF ADJACENT SHELVING UNITS.
 - SUPPORTS: BACK-TO-WALL AND BACK-TO-BACK TYPE THAT BOLT TO POSTS; AS REQUIRED FOR SHELVING UNIT STABILITY.
 - FINISH: BAKED ENAMEL OR POWDER COAT.

CONVEX MIRROR

- COMPONENTS
 - DETENTION QUALITY POLYCARBONATE CONVEX MIRROR WITH WELDED STEEL FRAME AND RIGID FOAM BACKING, DESIGNED FOR CONTINUOUS DAILY USE.
 - COMPLETE WITH MOUNTING HARDWARE, MOUNTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- FABRICATION:
 - MIRROR: 3MM POLYCARBONATE WITH A PURE SILVER REFLECTIVE COATING ON INSIDE SURFACE, FULLY ENCLOSED FOAM INSET IN CAVITY TO REDUCE FLEXING AND ENHANCE STRENGTH.
 - FRAME: 3MM X 25MM STEEL WITH RECESSED HOLES FOR FASTENING AND SLOTTED FLANGE FOR MIRROR.
 - SIZE: 457MM X 457MM

WALL MOUNTED SHELF:

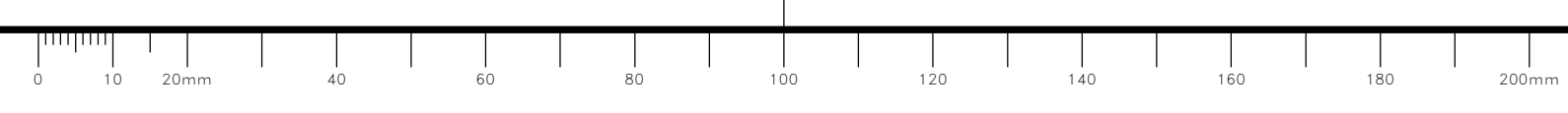
- DESCRIPTION: HEAVY DUTY WALL MOUNTED SHELF
- MATERIAL: 18 GAUGE, STAINLESS STEEL
- FINISH: SATIN NICKLE PLATED FINISH
- SIZE: LENGTH 610MM, DEPTH 305MM, HEIGHT 305MM, WITH 38MM TURNED UP BACK EDGE.
- CONTRACTOR TO COORDINATE EXACT SIZE WITH NALOXONE KIT PROVIDED BY OWNER REPRESENTATIVE.

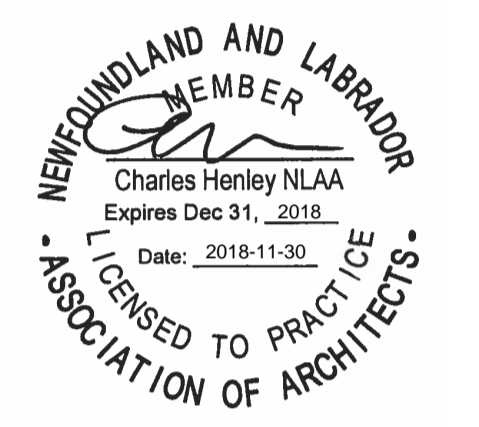
ROBE HOOK

- DESCRIPTION: HEAVY DUTY HOOK WITH EXPOSED MOUNTING, MINIMUM PROJECTION OF HOOK 85MM.
- MATERIAL AND FINISH: SATIN NICKLE PLATED FINISH.

ARCHITECTURAL SPECIFICATIONS

1
A101





ROOM FINISH SCHEDULE					
NUMBER	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
Level 1					
T01	EXISTING/EPXF2	EPXF2	EPXW1	EXISTING/PT1	PATCH AND REPAIR FLOOR AS NECESSARY TO ACHIEVE SMOOTH CLEAN FINISH.

NOTE: EPOXY BASE TO EXTEND 150MM UP WALL.

GENERAL INTERIOR FINISHES NOTES

- WHERE A PRODUCT IS REQUIRED TO MATCH ANOTHER PRODUCT, THE DECISION ON THE ACCEPTABILITY OF THE MATCH SHALL SOLELY RESIDE WITH THE DEPARTMENTAL REPRESENTATIVE.
- DRAWINGS MAY NOT SHOW ALL INTERIOR SURFACES REQUIRED TO BE PAINTED. SCOPE OF WORK INCLUDES PAINTING ALL EXPOSED-TO-VIEW AND SEMI-EXPOSED-TO-VIEW UNFINISHED SURFACES, INCLUDING GALVANIZED METALS AND M&E CONSTRUCTION.
- HAVE DEPARTMENTAL REPRESENTATIVE SELECT PAINT GLOSS LEVELS ON A SURFACE-BY-SURFACE BASIS DURING CONSTRUCTION.
- INTERIOR FINISHES AS DESCRIBED ARE TO BE CHOSEN FROM MANUFACTURER'S EXTENDED COLOUR RANGE.
- REFER TO SPECIFICATION SHEET FOR ADDITIONAL FINISH DESCRIPTION INFORMATION.

INTERIOR MATERIALS LEGEND

PT 1 INTERIOR PAINT
WHITE PAINT COLOUR (CEILING)

PT 2 INTERIOR PAINT
FIELD PAINT COLOUR 1 (TO MATCH EXISTING)

PT 3 INTERIOR PAINT
FIELD PAINT COLOUR (DOOR/FRAME TO MATCH ADJACENT EXISTING)

EPXF1 EPOXY FLOOR COATING
SIKAGARD DUROPLAST 100 N AS MARKETED BY SIKA

EPXW1 EPOXY WALL AND CEILING COATING
SIKAGARD DUROPLAST 150 AS MARKETED BY SIKA

PLAM 1 PLASTIC LAMINATE
COLOUR: MID TONED, STRAIGHT GRAINED WOOD FINISH

PLAM 2 PLASTIC LAMINATE
COLOUR: DARK GREY, WITH MATTE FINISH

MEL 1 MELAMINE
COLOUR: LIGHT GREY COLOUR WITH SUEDE FINISH, 19MM THERMALLY FUSED, C/W GREY PVC EDGE

MG01

COMPONENTS, MATERIALS, AND FINISHES - GENERAL
USE THE FOLLOWING MATERIALS AND FINISHES FOR THOSE COMPONENTS LISTED BELOW IF THEY ARE REQUIRED FOR THE CONSTRUCTION OF THIS PIECE OF MILLWORK. USE OTHER MATERIALS AND FINISHES AS PER SPECIFICATIONS.

DOOR AND DRAWER FRONT STYLE
STYLE FLUSH FRONT.

DOORS AND DRAWER FRONT MATERIALS AND FINISH
TO MATCH PLAM2, C/W 3MM PVC EDGING TO MATCH DOOR AND DRAWER HANDLES
12 X 35X 128 MM, METAL DRAWER BAR PULL; FINISH MATTE BLACK OR APPROVED ALTERNATE. INSTALL AS PER MANUFACTURERS INSTRUCTIONS.

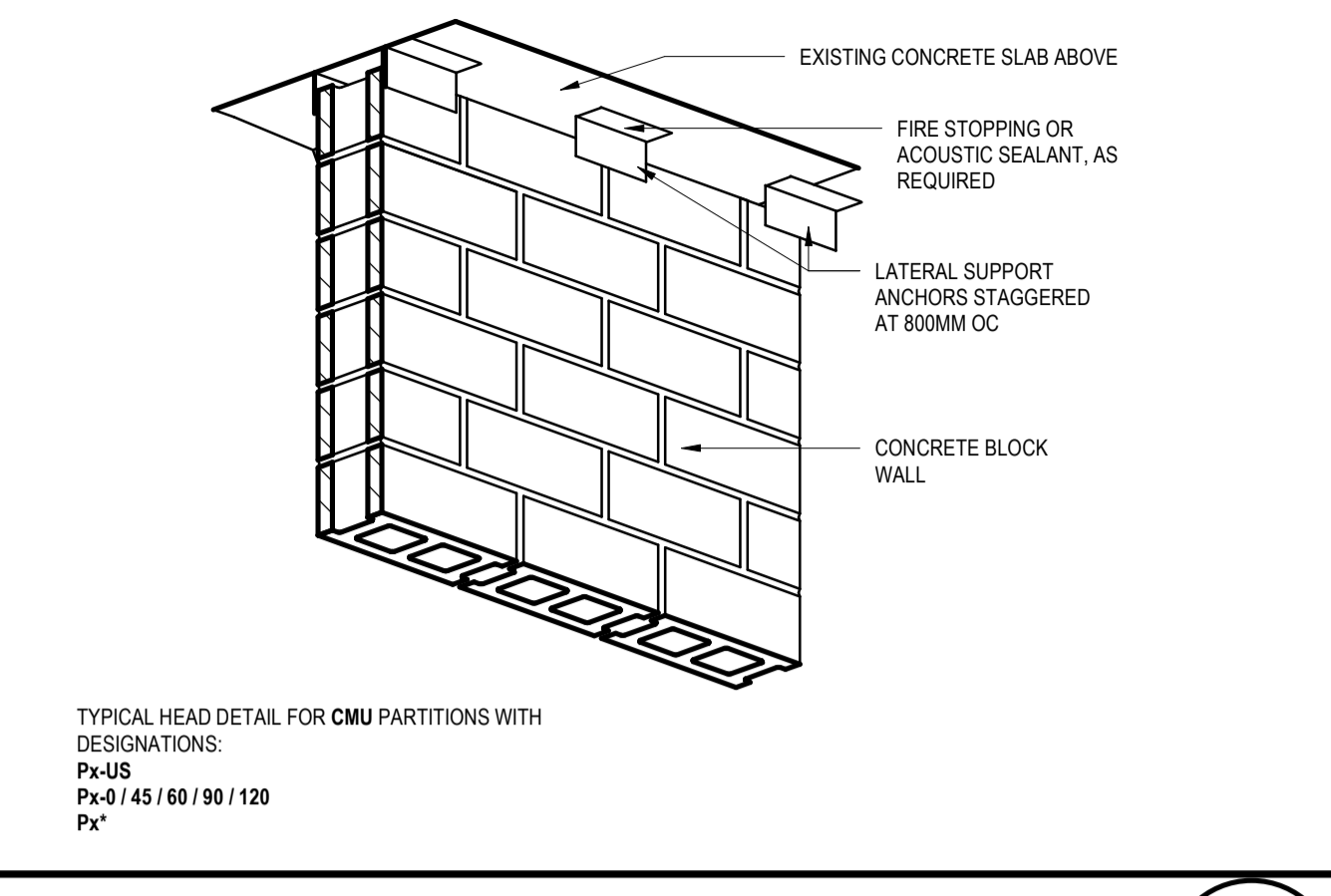
SHEET GOODS EXPOSED-TO-VIEW OR SEMI-EXPOSED-TO-VIEW AND THEIR FINISH AND EDGE TREATMENT
EXPOSED TO VIEW: PLASTIC LAMINATE ADHERED TO ONE SHEETS OF 19MM MDF FINISHED WITH PLAM2, C/W 3MM PVC EDGING TO MATCH, OR APPROVED ALTERNATE.

UN- EXPOSED TO VIEW: INTERIOR SHELVING: 19 MM THERMALLY FUSED GREY TO MATCH MEL1 C/W 3MM PVC EDGING TO MATCH.

COUNTERTOPS, WINDOW SILLS, HORIZONTAL WORKING SURFACES, AND OTHER SIMILAR ITEMS, INCLUDING THEIR FINISH, SUBSTRATE IF APPLICABLE, AND EDGE TREATMENT
CHEMICAL RESISTANT PLASTIC LAMINATE TO MATCH PLAM3, C/W COMPACT SUBSTRATE GRADE R3- THICKNESS 25MM, FINISH EDGE AS PER MANUFACTURERS RECOMMENDATIONS, OR APPROVED ALTERNATE.

MISCELLANEOUS
ALL OPERABLE DOORS AND DRAWERS TO INCLUDE KEYED LOCKSETS.

MILLWORK GROUP 1 **5** A102



BUILDING ASSEMBLIES DETAILS **2** A102

EQUIPMENT SCHEDULE

E:###	TYPE	DESCRIPTION	CONTRACTOR SUPPLY & INSTALL	OWNER SUPPLY & INSTALL	OWNER SUPPLY & CONTRACTOR INSTALL
001	CLOTHES BIN			X	
002	SHelf	WALL MOUNTED SHelf, COORDINATE SIZE WITH NALOXONE KIT, MOUNT @ 1220MM AFF.	X		
003	NALOXONE KIT	NALOXONE KIT		X	
004	ROBE HOOKS	WALL MOUNTED HEAVY DUTY ROBE HOOKS	X		
005	SHELVING	610W X 460D X 1828H FLOOR MOUNTED SHELVING	X		
006	ION SCANNER	ION SCANNER		X	
008	FUME HOOD	'AIR/CLEAN SYSTEMS' FUME CONTROL HOOD COMPLETE WITH SUPPORT CART UNIT		X	
009	CONVEX MIRROR	460MM DIA. CONVEX CIRCULAR MIRROR C/W MOUNTING BRACKET.	X		

EQUIPMENT SCHEDULE **4** A101

BUILDING ASSEMBLY TAG LEGEND AND NOTES

BUILDING ASSEMBLY TAGS TAKE PRECEDENCE OVER ANY HATCHING OR LINE STYLES SHOWN.

Px DENOTES PARTITION ASSEMBLY

Px-US DENOTES PARTITION EXTENDS TIGHT TO UNDERSIDE OF STRUCTURAL DECK ABOVE WITH ALLOWANCES FOR DECK DEFLECTION AND FOR BRIDGING DROPPED BEAMS AND SIMILAR ITEMS U.N.O.

Px-UC DENOTES PARTITION EXTENDS TIGHT TO UNDERSIDE OF CEILING.

Px-AC DENOTES PARTITION EXTENDS TO 100MM MINIMUM ABOVE FINISHED CEILING.

Px-SP DENOTES PARTITION CONSTRUCTED WITH SPECIAL CHARACTERISTICS, AS NOTED.

USE MOULD AND ABUSE RESISTANT GYPSUM BOARD ON THE INSIDE SUBSTRATE OF ALL EXTERIOR WALLS, AND INSIDE WASHROOMS, JANITORS CLOSETS, MAINTENANCE ROOMS, MECHANICAL ROOMS, BUT SPECIFICALLY EXCLUDING ELECTRICAL AND DATA CLOSETS, AND IN ALL LOCATIONS.

ENSURE ALL EXPOSED OUTSIDE CORNERS IN CMU PARTITIONS AND WALLS ARE CONSTRUCTED USING BULL-NOSE BLOCK.

Wx DENOTES WALL ASSEMBLY

Xx-0 / 45 / 60 / 90 / 120 DENOTES ASSEMBLY CONSTRUCTED AS A FIRE SEPARATION, WITH FIRE RATING SHOWN IN MINUTES. ZERO RATING DESIGNATES NON-RATED FIRE SEPARATION, CONSTRUCTED SMOKE TIGHT AND FIRE STOPPED.

PARTITION EXTENDS TIGHT TO UNDERSIDE OF STRUCTURAL DECK ABOVE WITH ALLOWANCES FOR DECK DEFLECTION AND FOR BRIDGING DROPPED BEAMS AND SIMILAR ITEMS U.N.O.

PROVIDE TYPE 'X' GYPSUM BOARD AT ALL ASSEMBLIES CONSTRUCTED AS A FIRE SEPARATION THAT USE GYPSUM BOARD SHEATHING.

FIRE STOP ALL PENETRATIONS THROUGH ASSEMBLY, GAPS THAT MAY EXIST AT TOP OF PARTITIONS AND WALLS TO ACCOMMODATE DEFLECTION OR FLUTES IN STEEL DECK, AND ALL JOINTS AND SEAMS INCLUDING THOSE WITH OTHER ELEMENTS, USING LISTED FIRESTOPPING MATERIALS. PROVIDE LISTED FIRESTOPPING DETAILS PRIOR TO ERECTING ASSEMBLY.

COMPLY WITH OTHER REQUIREMENTS, AS NOTED, INCLUDING REQUIREMENTS STATED IN ANY TEST LISTING REFERENCED.

ADDITIONAL REQUIREMENTS FOR PARTITION AND WALL ASSEMBLIES ONLY: EXTEND TO UNDERSIDE OF DECK ABOVE. ENSURE FIRESTOPPING SYSTEM CAN ACCOMMODATE DOWNWARD DEFLECTION EQUAL TO GAP SHOWN. COORDINATE WORK OF OTHER TRADES TO ENSURE NO RECESSED DEVICES ARE LOCATED BACK-TO-BACK WITHIN PARTITION OR SAME STUD CAVITY.

ADDITIONAL REQUIREMENTS FOR CEILING AND ROOF ASSEMBLIES ONLY: CONSTRUCT ENCLOSURES OVER TOP OF RECESSED LIGHT FIXTURES IN ACCORDANCE WITH REQUIREMENTS OF ANY TEST LISTING REFERENCED.

PROVIDE FIRE DAMPERS AT DUCTWORK PENETRATIONS AND ENSURE THEY CAN BE ACCESSED FOR RESET.

Xx*-xx ASTERISK PRESENT DENOTES ASSEMBLY CONSTRUCTED WITH ACOUSTICAL PROPERTIES.

DENOTES PARTITION EXTENDS TIGHT TO UNDERSIDE OF STRUCTURAL DECK ABOVE WITH ALLOWANCES FOR DECK DEFLECTION AND FOR BRIDGING DROPPED BEAMS AND SIMILAR ITEMS U.N.O.

SEAL AIR-TIGHT ALL PENETRATIONS THROUGH ASSEMBLY, GAPS THAT MAY EXIST AT TOP OF PARTITIONS AND WALLS TO ACCOMMODATE DEFLECTION OR FLUTES IN STEEL DECK, AND ALL JOINTS AND SEAMS INCLUDING THOSE WITH OTHER ELEMENTS, THAT HAVE NOT OTHERWISE BEEN SEALED WITH FIRE STOP MATERIALS, USING ACOUSTICAL SEALANT.

COORDINATE WORK OF OTHER TRADES TO ENSURE NO RECESSED DEVICES ARE LOCATED BACK-TO-BACK WITHIN PARTITION OR IN SAME STUD CAVITY.

COMPLY WITH OTHER REQUIREMENTS, AS NOTED, INCLUDING REQUIREMENTS STATED IN ANY TEST LISTING REFERENCED.

DRAWING SYMBOL LEGEND

ASSEMBLY TAGS TAKE PRECEDENCE OVER ANY HATCHING OR LINE STYLES SHOWN.

DENOTES CAST-IN-PLACE CONCRETE CONSTRUCTION

DENOTES MASONRY CONSTRUCTION

DENOTES ALL OTHER ASSEMBLIES / CONSTRUCTION

GENERAL NOTES

- USE ACOUSTICAL CMU ONLY IN LOCATIONS WHERE ACOUSTICAL BLOCK IS SPECIFICALLY INDICATED.
- REPORT TO THE DEPARTMENTAL REPRESENTATIVE ANY DISCREPANCY BETWEEN THE RATINGS SHOWN IN THE ASSEMBLY DESCRIPTIONS AND THOSE SHOWN IN THE FIRE SEPARATION SCHEMATIC.
- IN THE EVENT OF A DISCREPANCY BETWEEN SHADING, HATCHING AND ASSEMBLY TAGS, ASSEMBLY TAGS TAKE PRECEDENCE.
- USE J-TRIM WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIAL.
- PROVIDE BULLNOSE CMU AT ALL OUTSIDE CORNERS OF WALLS.
- FOR MASONRY PARTITIONS: SUBMIT SHOP DRAWINGS SHOWING PROPOSED LOCATIONS FOR ALL EXPANSION JOINTS. LOCATE EXPANSION JOINTS IN ACCORDANCE WITH GOOD MASONRY PRACTISE, INCLUDING BUT NOT LIMITED TO EVERY 6 METRES VERTICALLY, ADJACENT TO CORNERS, AND ADJACENT TO MASONRY OPENINGS

ROOM FINISH SCHEDULE AND INFORMATION **7** A101

DOOR SCHEDULE

No.	DOOR CLEAR DIMENSION		DOOR			FRAME			HARDWARE GROUP	COMMENTS
	Width (A)	Height (B)	ELEVATION	FINISH	TYPE	ELEVATION	FINISH	TYPE		
Level 1										
101A	914	2134	D1	PT3	HM	F1	PT3	PSF	HG01	400x400 WINDOW IN DOOR

GENERAL DOOR / FRAME NOTES

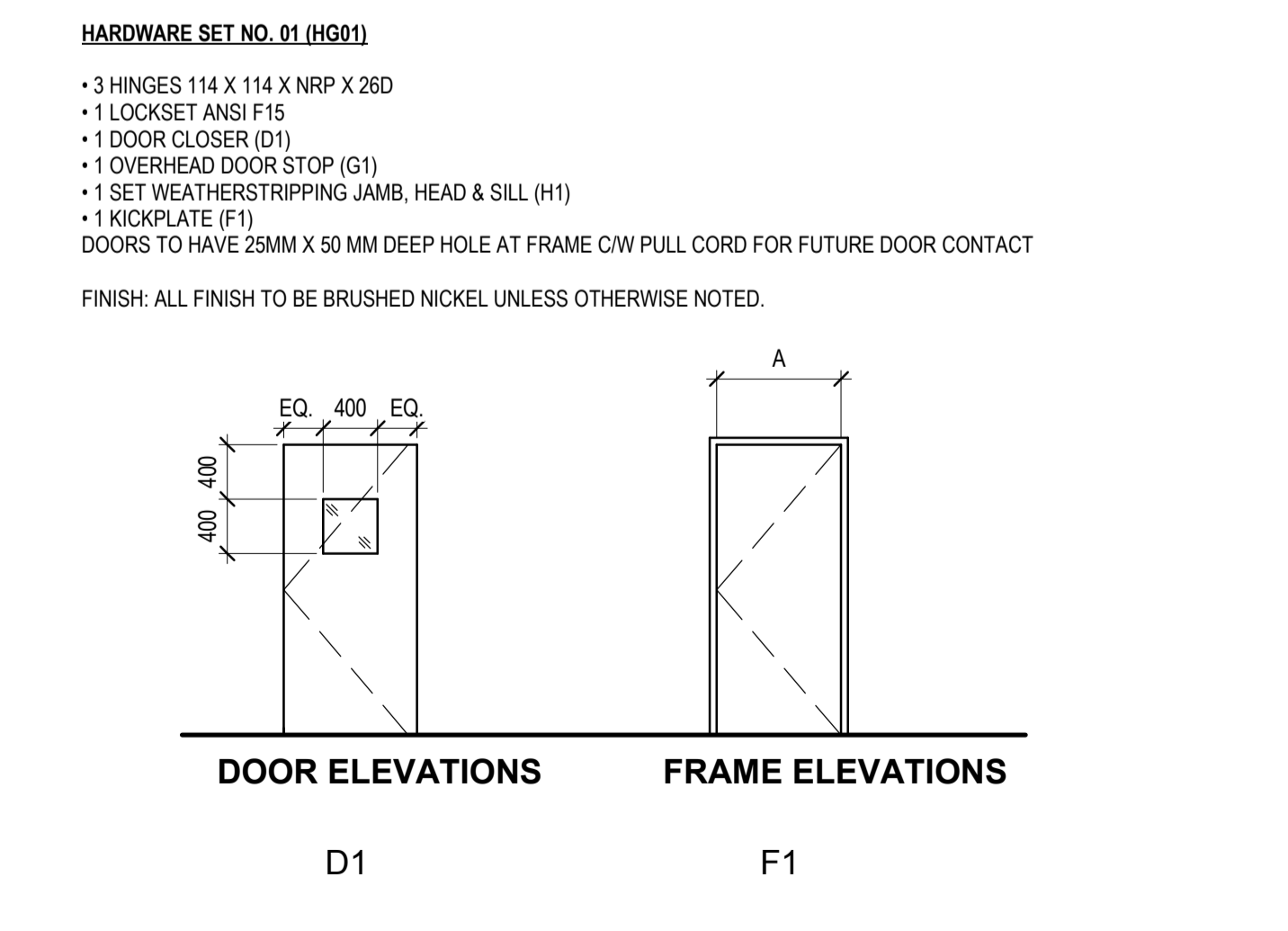
- FOR GLAZED DOORS AND FRAMES, PROVIDE CLEAR INSULATED SAFETY GLASS UNITS LOCATED BETWEEN HEATED AND UNHEATED SPACES. CLEAR WIRE GLASS WHEN LOCATED IN FIRE RATED ASSEMBLIES, AND CLEAR SAFETY GLASS IN ALL OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
- PROVIDE FIRE RATED TYPE LOUVERS WHEN LOUVERS ARE LOCATED IN FIRE RATED DOOR ASSEMBLIES.
- SEE DOOR SCHEDULE FOR DOOR AND FRAME PAINT / STAIN / LAMINATE COLOUR, UNLESS OTHERWISE NOTED.

FRAME DETAILS

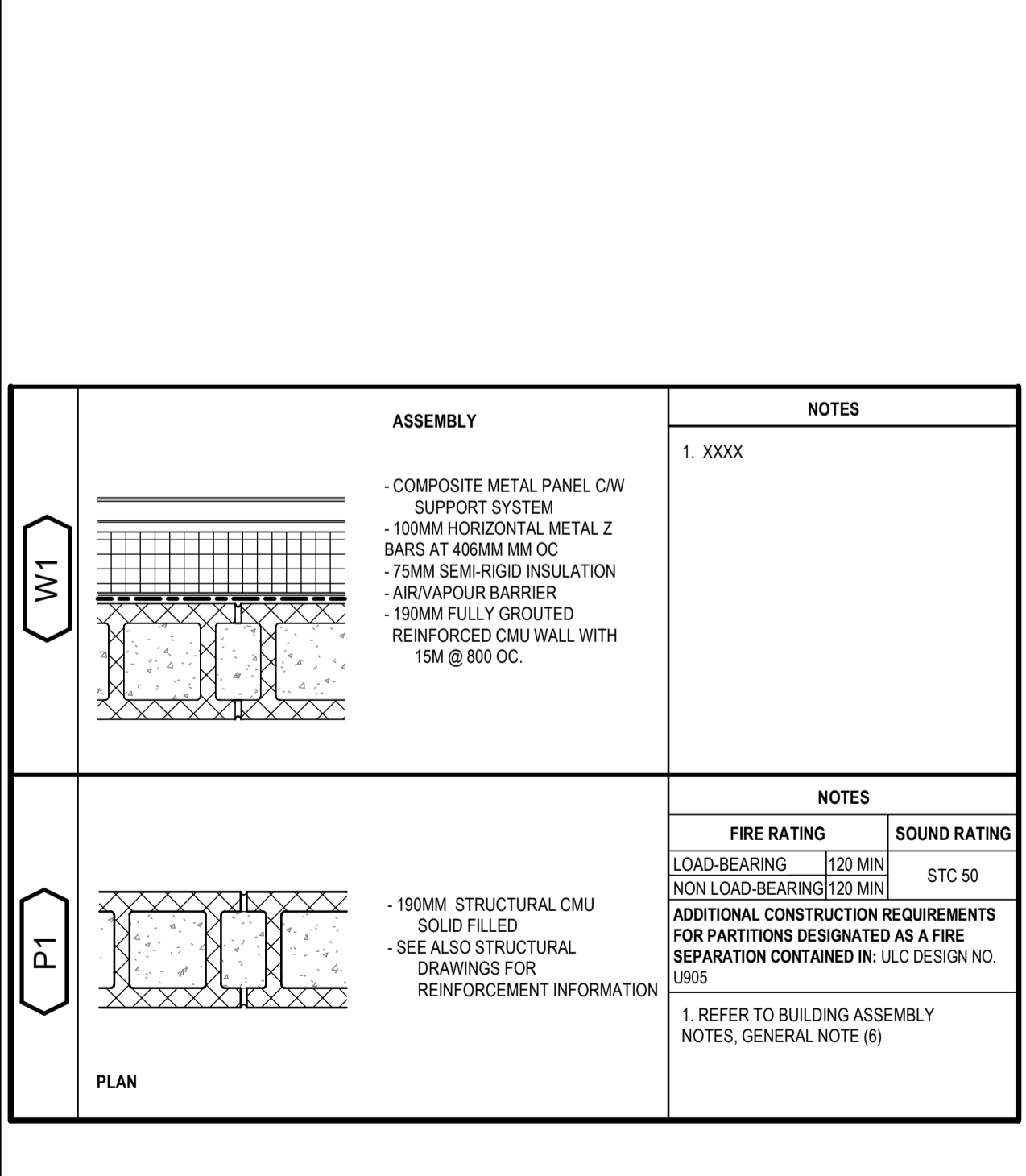
- PROVIDE BUTT JAMBS FOR STANDARD STEEL FRAMES LOCATED IN CMU PARTITIONS GREATER THAN 140MM IN WIDTH, AND IN CONCRETE WALLS; AND ALUMINUM FRAMES LOCATED IN WOOD / STEEL STUD PARTITIONS AND IN CMU AND CONCRETE WALLS, UNLESS OTHERWISE NOTED.
- REFER TO DRAWINGS AND KEYNOTES FOR OTHER FRAME CONFIGURATIONS.

DOOR AND FRAME OPENING NUMBERS

DOOR / FRAME NUMBER
105A



DOOR/FRAME SCHEDULE AND INFORMATION **6** A101



BUILDING ASSEMBLIES **3** A102

BUILDING ASSEMBLIES NOTES **1** A102

revisions	description	date
0	ISSUED FOR TENDER	NOV 30/18

project HPDR B Division

100 E White Hills Rd, St. John's, NL, A1A 3T5

ARCHITECTURAL PROJECT NOTES AND LEGENDS

designed C.H.H.	conçu
date 06/01/18	
drawn C.R.	dessiné
date 06/01/18	
approved C.H.H.	approuvé
date 06/01/18	
Tender	Soumission
PWGSC Project Manager / Administrateur de projets TPSGC	
project number	no. du projet
140132533	
drawing no.	no. du dessin
A102	

DEMOLITION AND REINSTATEMENT NOTES

- EXAMINE ALL CONTRACT DOCUMENTS AND VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION WORK AND CUTTING, TRENCHING, AND PATCHING REQUIRED FOR THE EXECUTION OF THE WORK IN THIS CONTRACT.
- PERFORM DEMOLITION WORK SHOWN AND/OR REQUIRED TO COMPLETE THE WORK. DO NOT ASSUME DEMOLITION DRAWINGS SHOW THE FULL EXTENT OF DEMOLITION WORK REQUIRED.
- PROVIDE CUTTING, TRENCHING, AND PATCHING REQUIRED TO EXECUTE THE WORK OF THIS CONTRACT, INCLUDING CUTTING, TRENCHING, AND PATCHING REQUIRED BY MECHANICAL, ELECTRICAL, AND OTHER TRADES. REINSTATE AND/OR MAKE GOOD ALL EXISTING SURFACES AFFECTED BY THE WORK OF CUTTING, TRENCHING AND PATCHING AND PREPARE THEM TO RECEIVE NEW FINISHES, IF SPECIFIED, OTHERWISE REFINISH TO MATCH EXISTING.
- WHEREVER EXCESSIVE DEMOLITION OCCURS OR IF DAMAGE OCCURS TO ADJACENT SURFACES NOT INTENDED FOR DEMOLITION OR REMOVAL, REINSTATE ALL AFFECTED SURFACES AND PREPARE THEM TO RECEIVE NEW FINISHES, IF SPECIFIED, OTHERWISE REFINISH TO MATCH EXISTING. FINISH ENTIRE SURFACES WHERE EXCESSIVE DAMAGE HAS OCCURRED, IN THE CASE OF WALLS REFINISH TO THE NEAREST CORNERS.
- FILL HOLES AND REPAIR THOSE SURFACES LEFT IN AN UNFINISHED STATE AFTER THE REMOVAL OF OBSOLETE MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING RECESSED OUTLET BOXES, PANELS, DUCTS, PIPES, AND CONDUIT. PREPARE SURFACE TO RECEIVE NEW FINISHES, IF SPECIFIED, OTHERWISE REFINISH TO MATCH EXISTING.
- PREPARE SURFACES AS NECESSARY TO RECEIVE NEW FINISHES SPECIFIED, INCLUDING BUT NOT LIMITED TO REMOVAL OF EXISTING FINISHES AND ADHESIVES, AND GRINDING, PATCHING, AND LEVELING SURFACES.
- ALL WORK INTENDED TO MATCH EXISTING SHALL BE PERFORMED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

SHEET NOTES

THESE NOTES APPLY ONLY TO THE WORK ILLUSTRATED ON THIS SHEET

KEYNOTES

- THESE NOTES APPLY ONLY TO PARTICULAR WORK IDENTIFIED BY KEYNOTE MARKERS.
- EXISTING WASHROOM TO REMAIN
 - EXISTING PLUMBING FLURR OUT SPACE TO REMAIN
 - REMOVE EXISTING SHELVING CASEWORK
 - EXISTING LIGHT SWITCH ON WALL ADJACENT TO INTERIOR DOOR FRAME TO REMAIN
 - EXISTING RAIN WATER LEADER TO REMAIN
 - EXISTING GLASS BLOCK WINDOW TO REMAIN
 - REMOVE EXISTING EXTERIOR DOOR/FRAME ASSEMBLY, INCLUDING THRESHOLD AND ACCESSORIES
 - REMOVE EXISTING CONCRETE PAD. SAW CUT TO ALIGN WITH EXTERIOR FACADE. INFILL GRADE VOID WITH NEW TOPSOIL. GRADING TO MATCH ADJACENT EXISTING. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
 - REMOVE WITH CARE, EXISTING OVERHEAD PROJECTOR. TURN OVER TO CLIENT FOR FUTURE USE.
 - REMOVE EXISTING SHELVING
 - EXISTING SHRUBS TO REMAIN
 - INFILL OPENING IN EXTERIOR WALL WITH ASSEMBLY W1.
 - ALIGN FACE OF NEW PARTITION WITH EXISTING
 - EMERGENCY SHOWER / EYE WASH STATION, SEE MECHANICAL
 - HOT WATER HEATER, SEE MECHANICAL
 - PROVIDE NEW WALL MOUNTED CASEWORK 915MM WIDE.
 - PROVIDE STAINLESS SINK WITH INTEGRATED DRAIN BOARD.
 - NEW HOT AND COLD WATER HOSE BIB. SEE ALSO MECHANICAL
 - NEW FLOOR DRAIN LOCATED BELOW EQUIPMENT, CONNECTED TO EXISTING FLOOR DRAIN SYSTEM IN CORRIDOR. SEE ALSO MECHANICAL.

FLOOR PLAN LEGEND

PARTITION LEGEND

- NEW MASONRY PARTITION AS SCHEDULED
- PARTITION ASSEMBLY TO BE REMOVED
- EXISTING INTERIOR PARTITION/ EXTERIOR WALL ASSEMBLY TO REMAIN

DOOR/FRAME TAGS

- NEW DOOR/FRAME ASSEMBLY. SEE ARCHITECTURAL PROJECT NOTES AND LEGENDS SHEET FOR DESCRIPTION.
- EXISTING DOOR/FRAME ASSEMBLY TO REMAIN
- EXISTING DOOR/FRAME ASSEMBLY TO BE REMOVED

PARTITION TAGS

- Px DENOTES PARTITION ASSEMBLY. SEE ARCHITECTURAL PROJECT NOTES AND LEGENDS SHEET FOR LIST OF ASSEMBLIES.

EQUIPMENT TAGS

- E: EQUIPMENT NUMBER. SEE ARCHITECTURAL PROJECT NOTES AND SCHEDULES SHEET FOR EQUIPMENT LIST

MILLWORK TAGS

- XXXX MG# DENOTES MILLWORK DETAIL. DENOTES MILLWORK GROUPING

SEE MILLWORK GROUPINGS ON ARCHITECTURAL PROJECT NOTES AND SCHEDULES SHEET FOR APPLICABLE MATERIAL DESCRIPTIONS.

NOTE: IN THE EVENT OF A DISCREPANCY IN LOCATIONS BETWEEN THE MILLWORK TAGS AND GENERIC LOCATIONS, THE MILLWORK TAGS SHALL PREVAIL.

FIRE SEPARATION SCHEMATIC NOTES

FIRE RESISTANCE RATINGS FOR WALL ASSEMBLIES

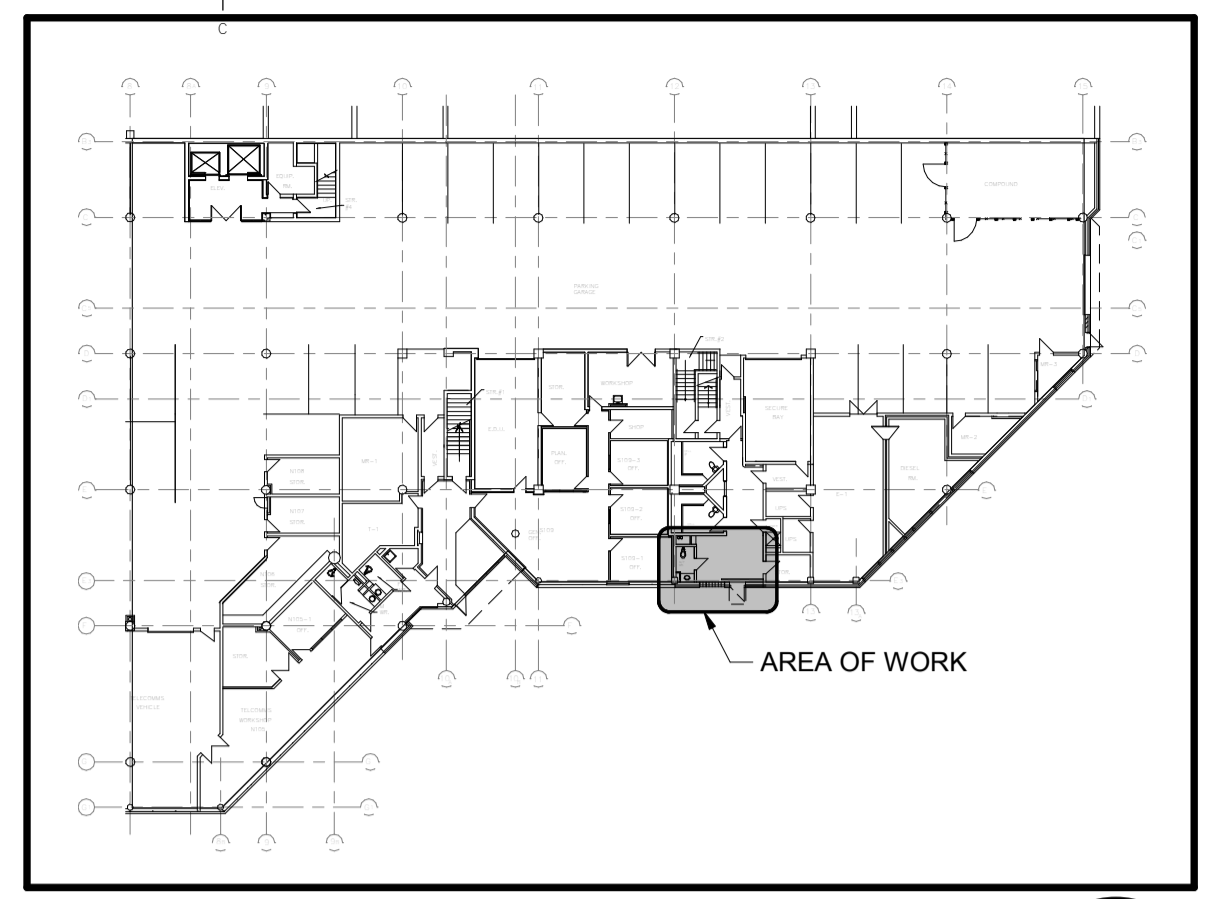
USE LEGEND BELOW AND DRAWINGS TO IDENTIFY LOCATIONS OF FIRE SEPARATIONS.

----- 60 min

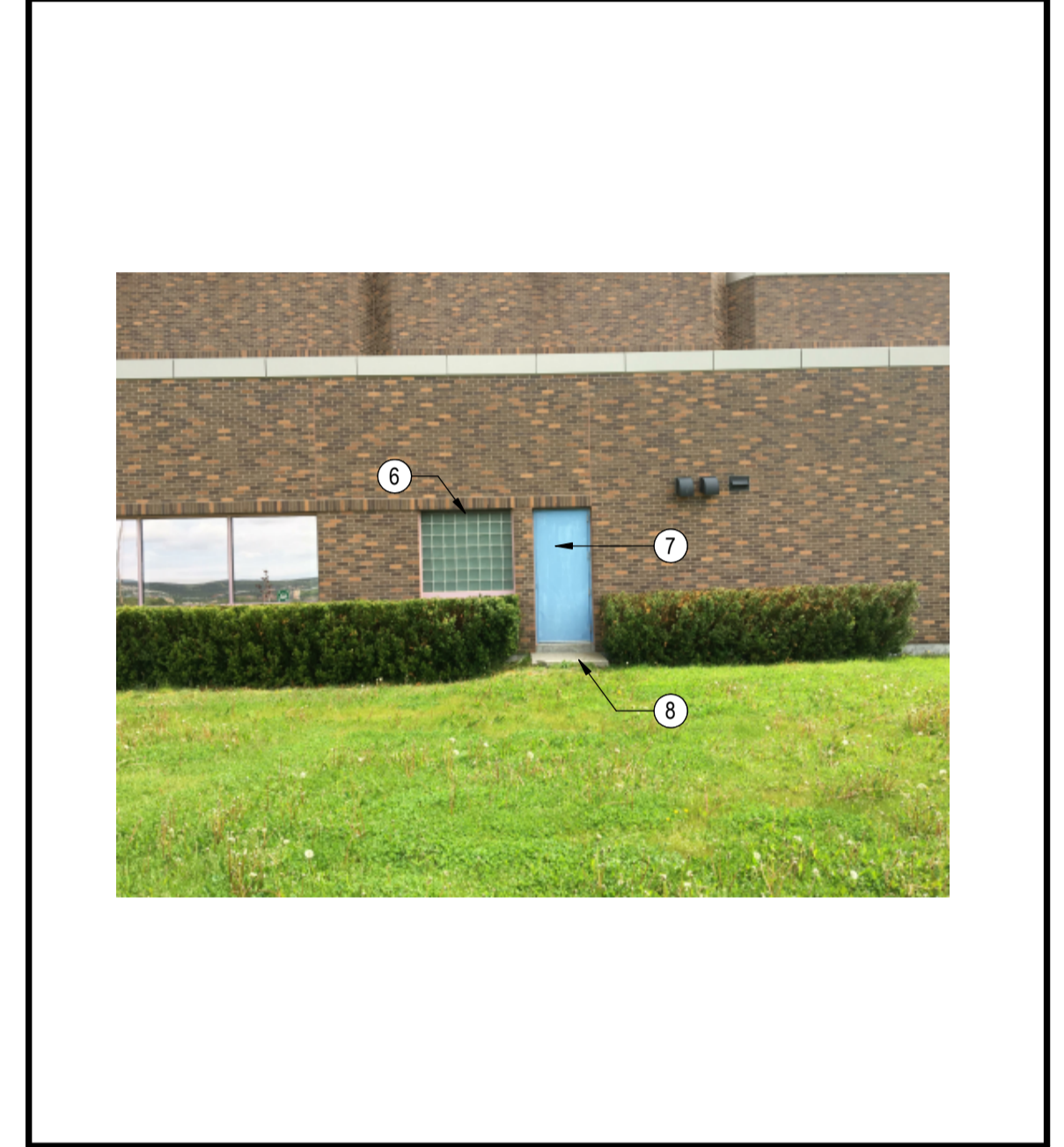
NOTE: RATINGS SHOWN ARE THE MINIMUM REQUIRED

FIRE SEPARATION SCHEMATIC NOTES

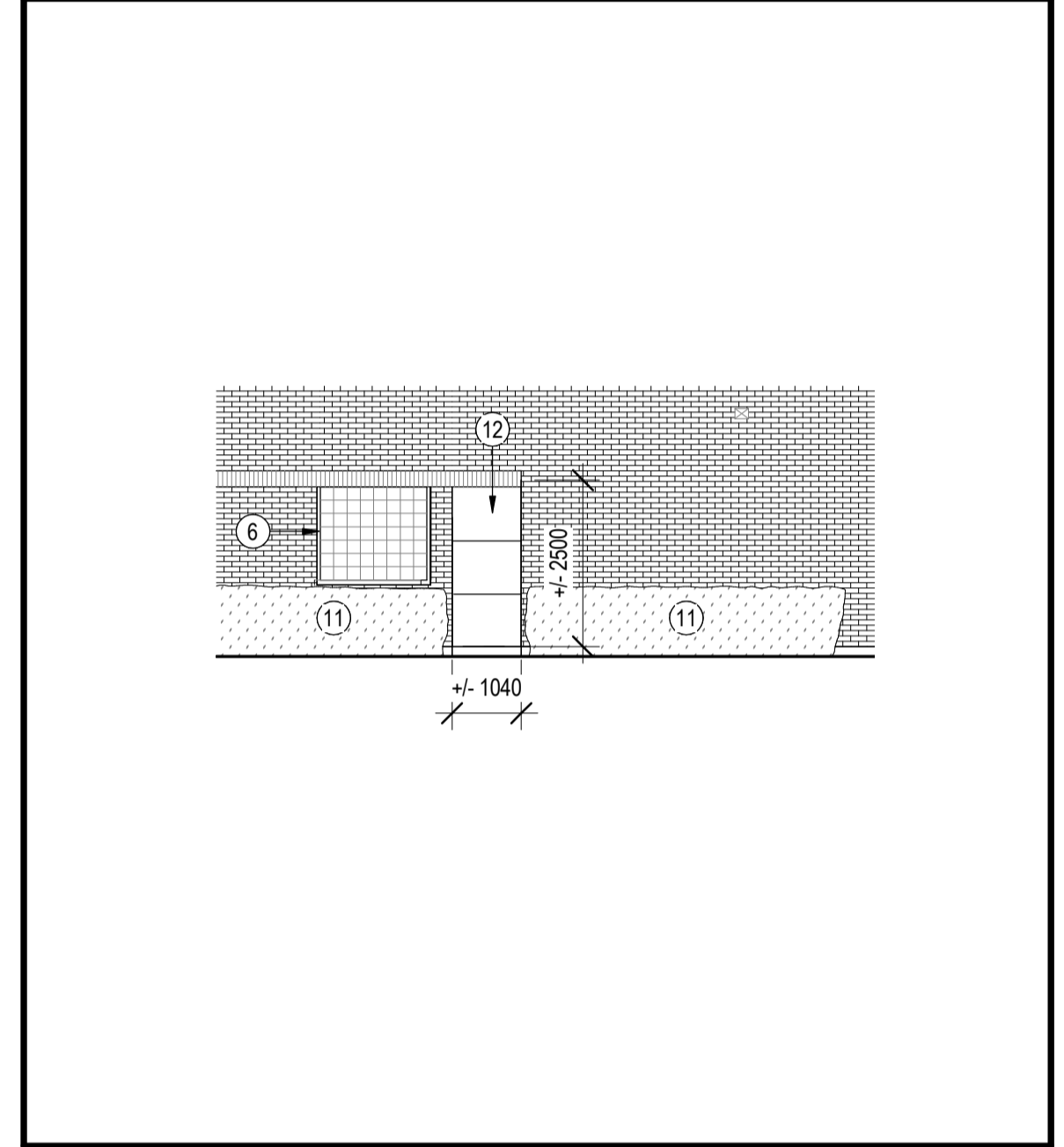
- REPORT TO DEPARTMENTAL REPRESENTATIVE ANY DISCREPANCY BETWEEN THE RATINGS SHOWN IN THE FIRE SEPARATION DESCRIPTIONS.
- FIRE STOP PENETRATIONS AND JOINTS IN ANY ASSEMBLY IDENTIFIED ANYWHERE IN DRAWINGS OR SCHEDULES AS BEING A FIRE SEPARATION.



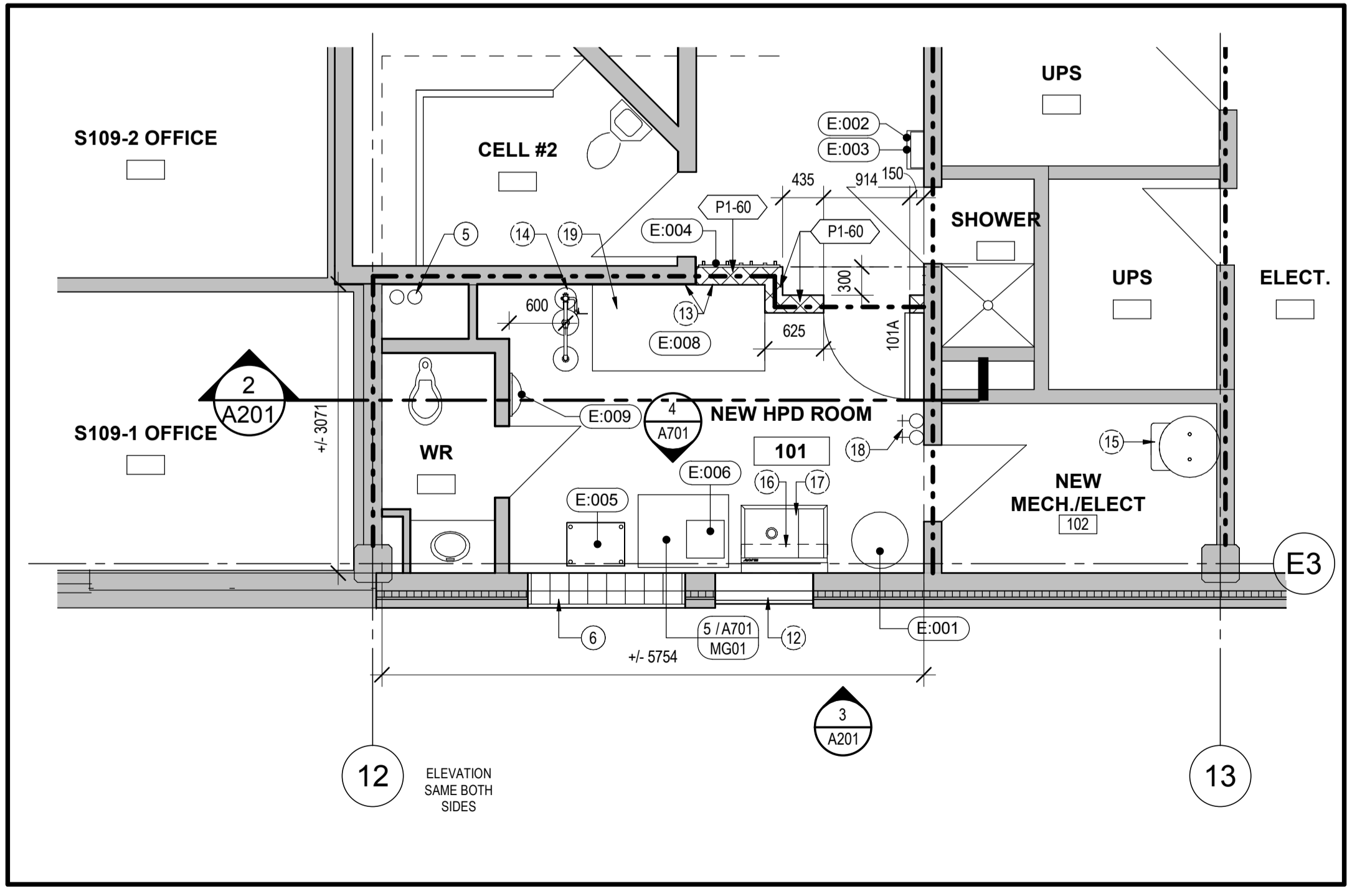
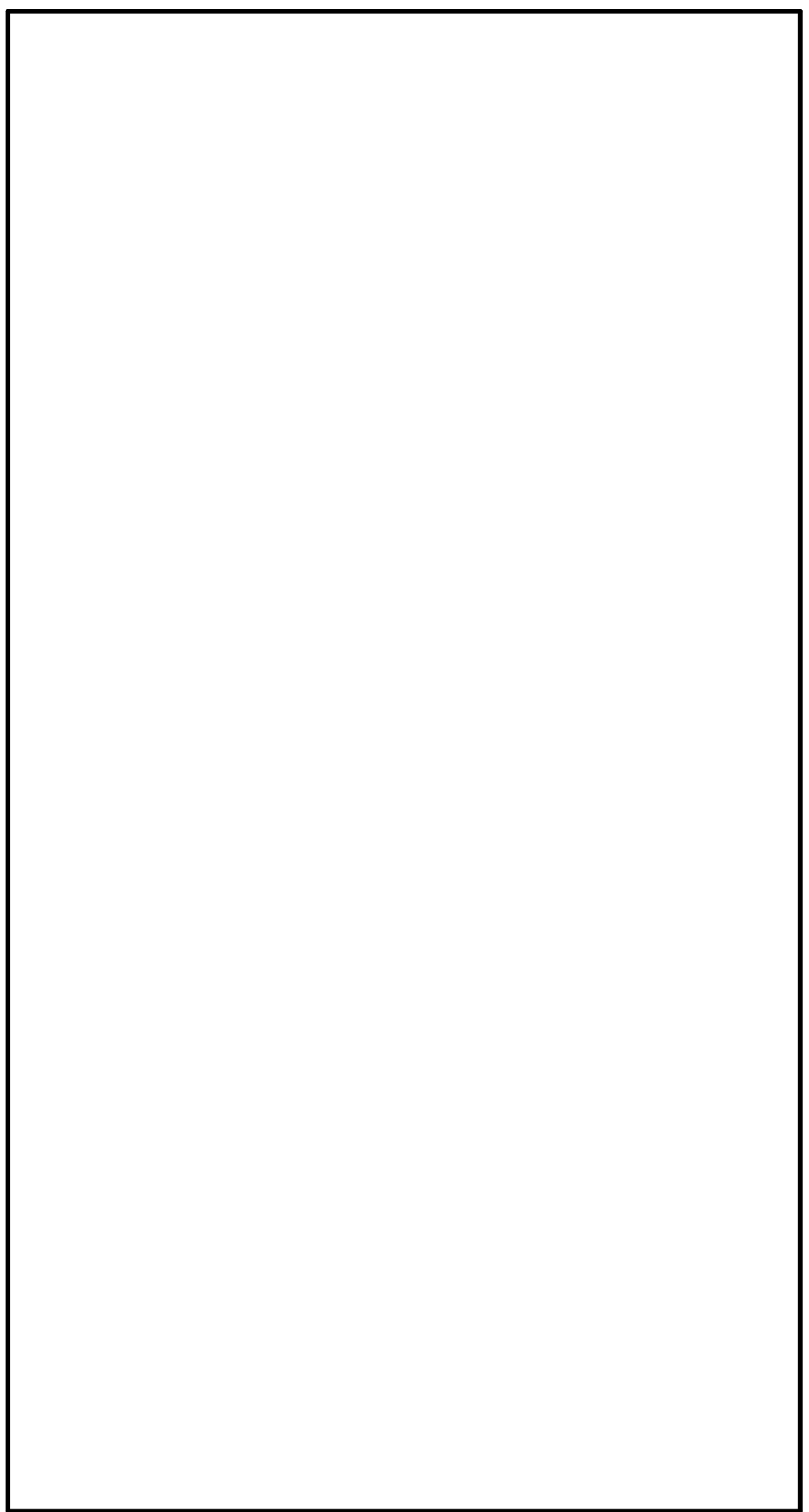
LEVEL 1 - KEYPLAN
SCALE: 1:500
5 A201



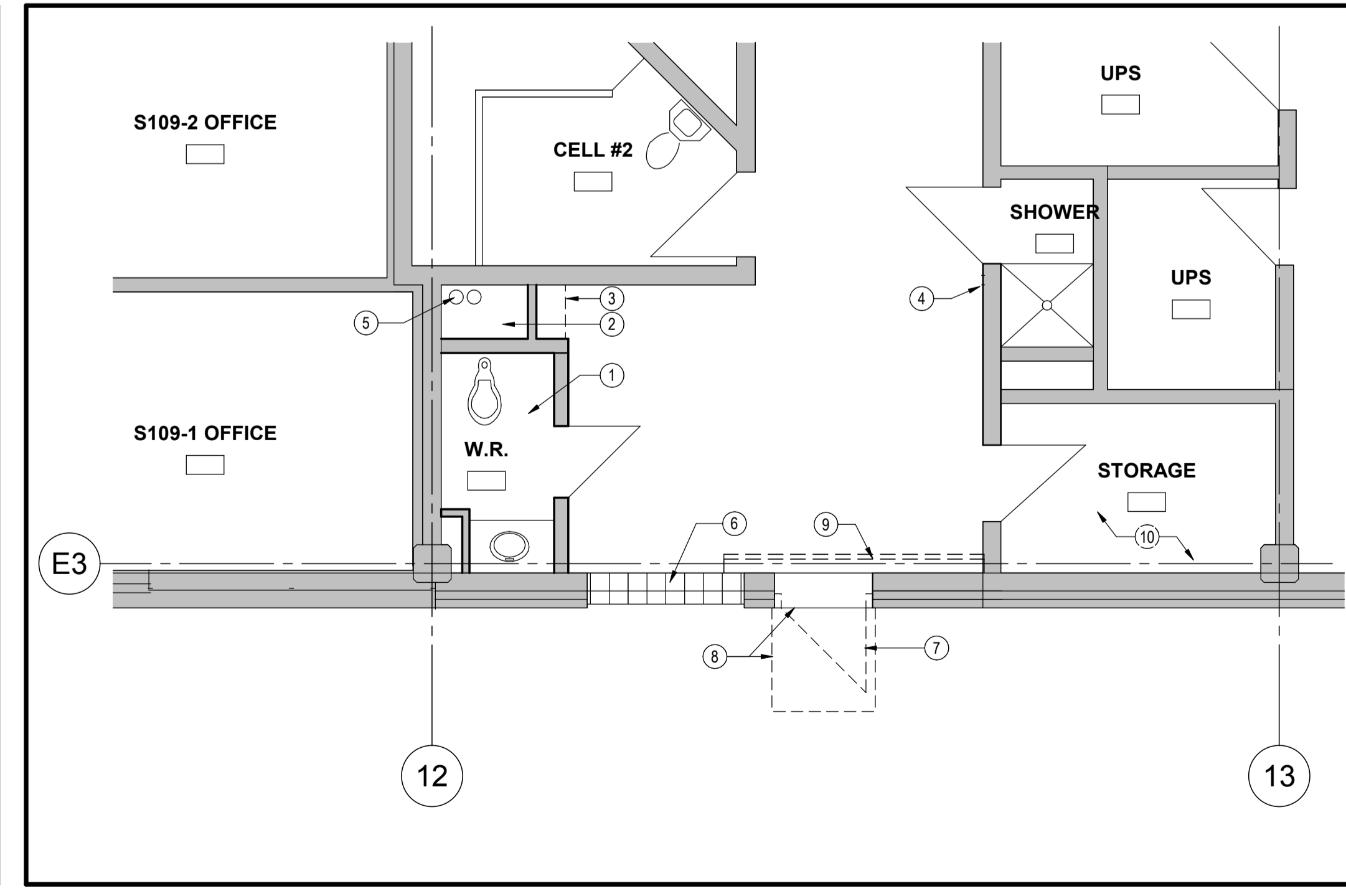
PARTIAL EXTERIOR ELEV. EXISTING
4 A201



PARTIAL EXTERIOR ELEV. - NEW
SCALE: 1:100
3 A201



LEVEL 1 - GENERAL FLOOR PLAN
SCALE: 1:50
2 A201

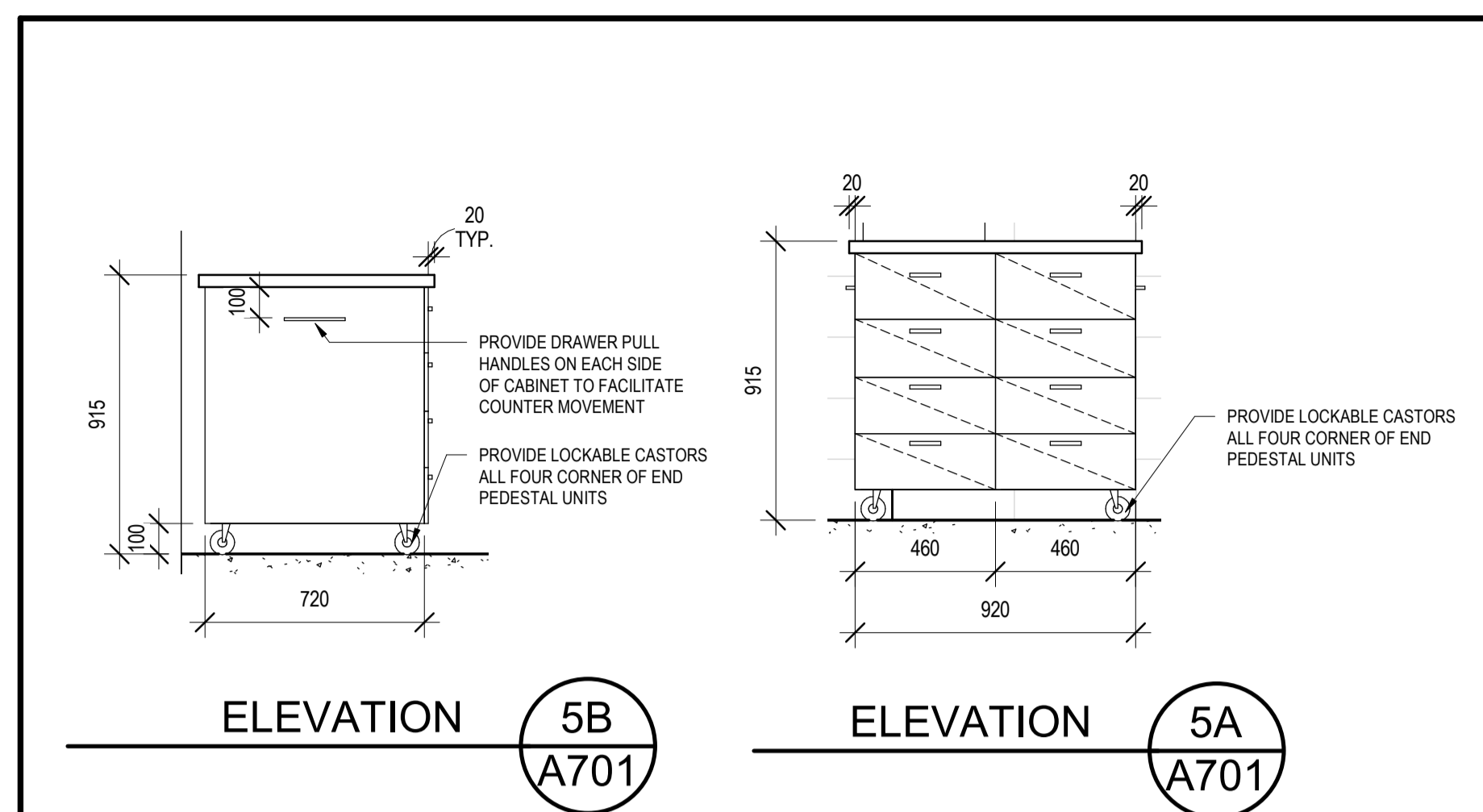


LEVEL 1 - EXISTING/DEMOLITION PLAN
SCALE: 1:50
1 A201

0	ISSUED FOR TENDER	NOV 30/18
revisions		date

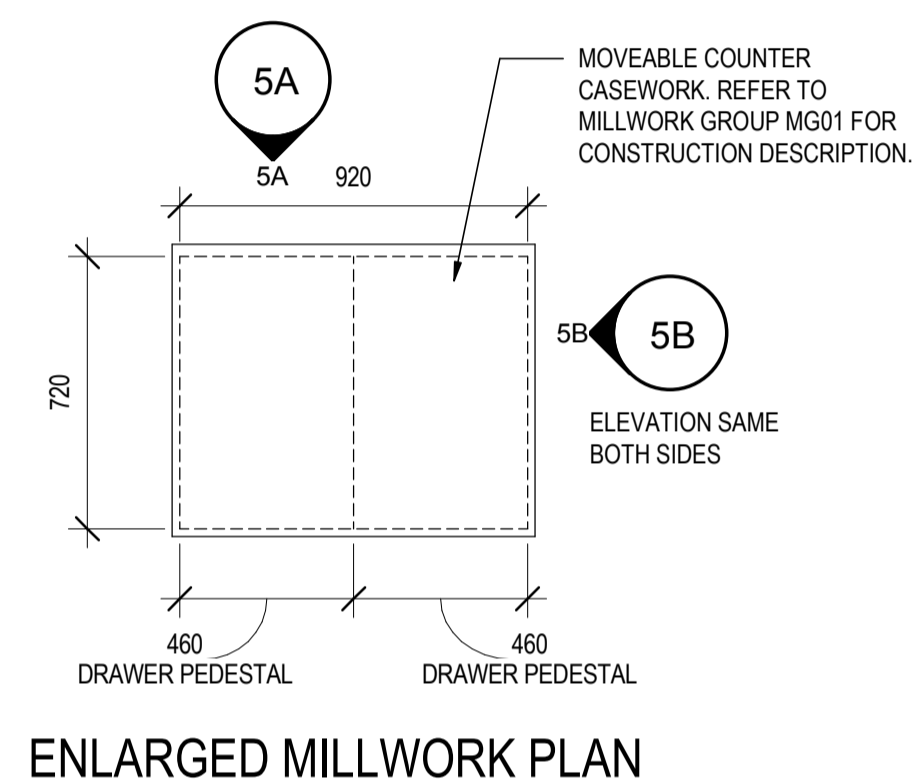
project HPDR B Division
100 E White Hills Rd, St. John's, NL, A1A 3T5

drawing	dessin
FLOOR PLANS, ELEVATIONS AND INFORMATION	
designed C.H.H.	conçu
date 07/17/18	
drawn C.R.	dessiné
date 07/17/18	
approved C.H.H.	approuvé
date 07/17/18	
Tender	Soumission
PWGSC Project Manager / Administrateur de projets TPSGC	
project number	no. du projet
140132533	
drawing no.	no. du dessin
A201	



ELEVATION 5B
A701

ELEVATION 5A
A701



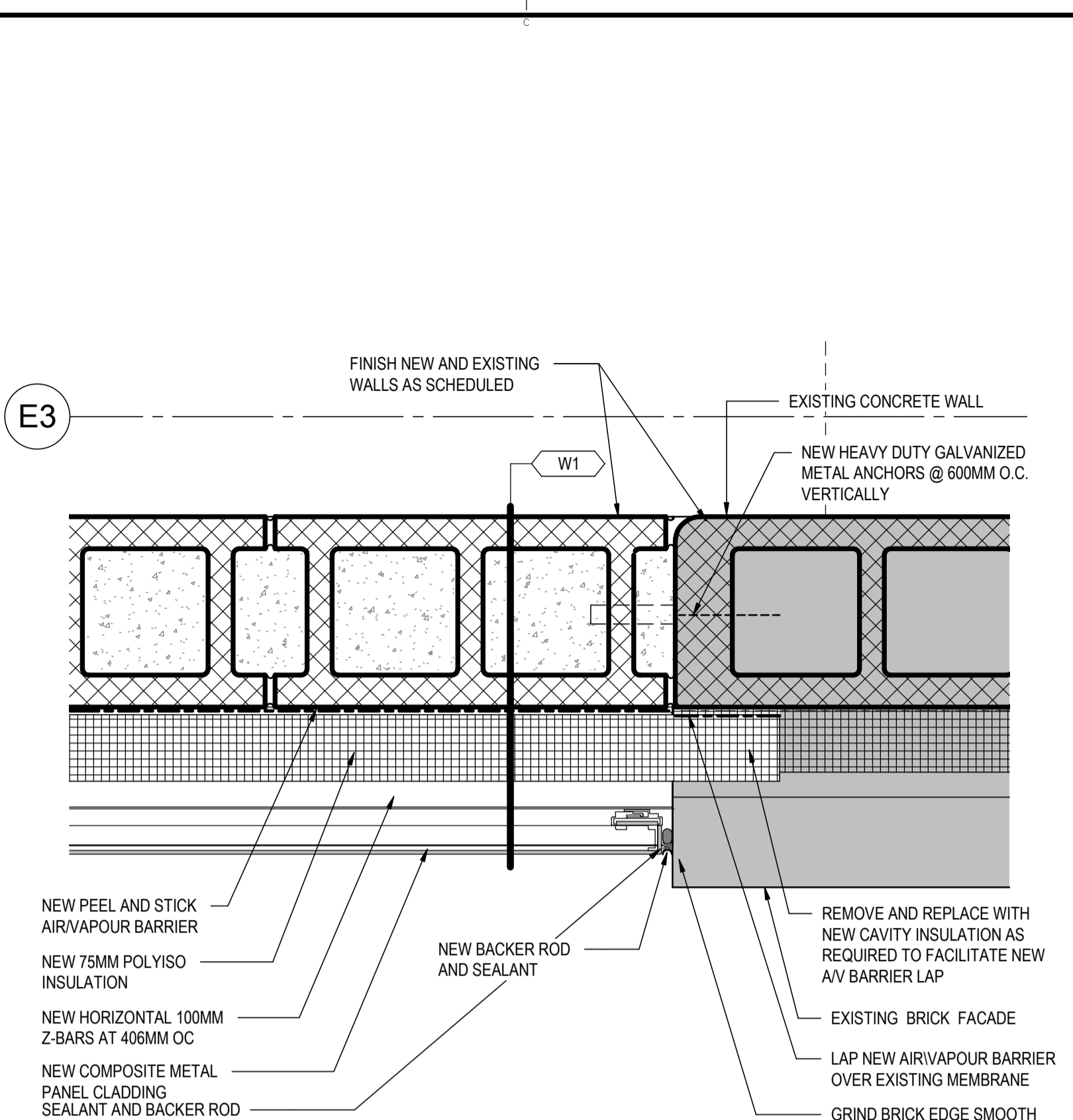
ENLARGED MILLWORK PLAN

MILLWORK - MOVEABLE COUNTER (MG01)

SCALE: 1:20



5
A701

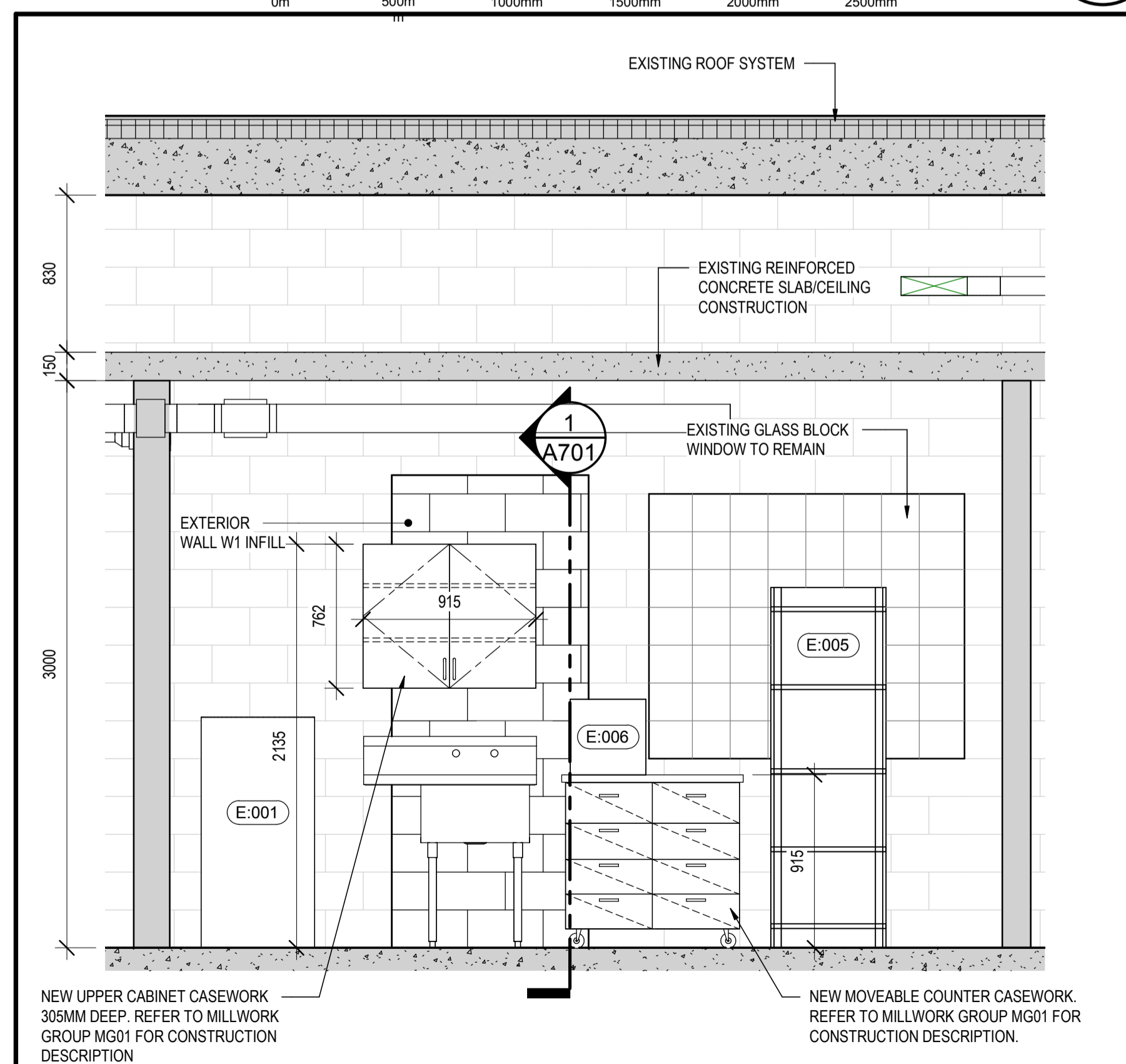


DOOR OPENING INFILL PLAN DETAIL

SCALE: 1:5

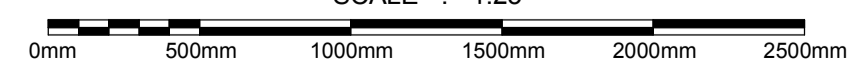


3
A701

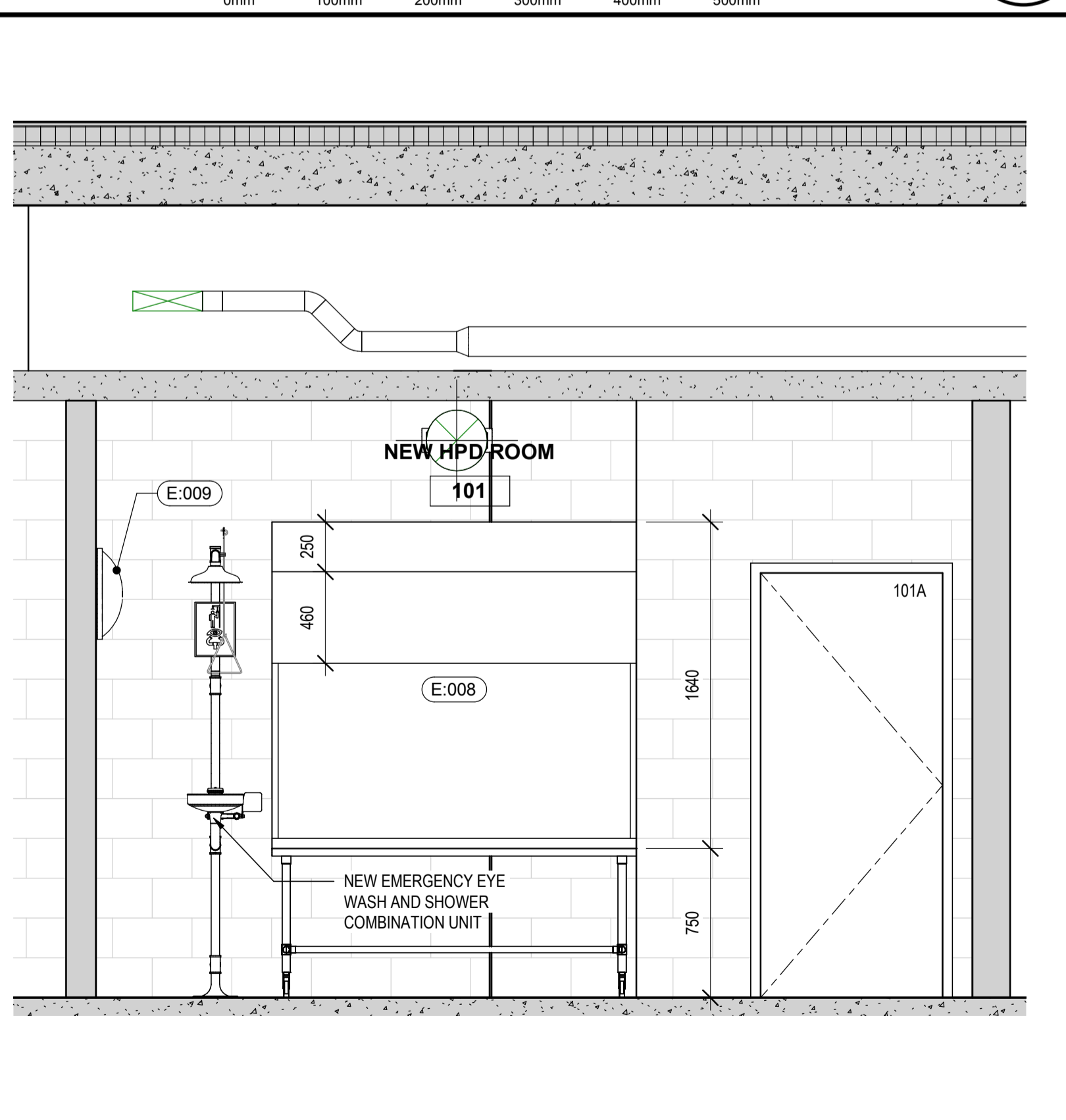


ROOM 101 INTERIOR ELEVATION

SCALE: 1:25

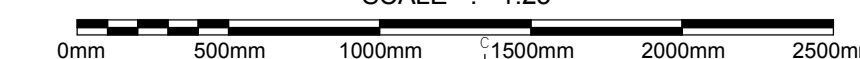


4
A701

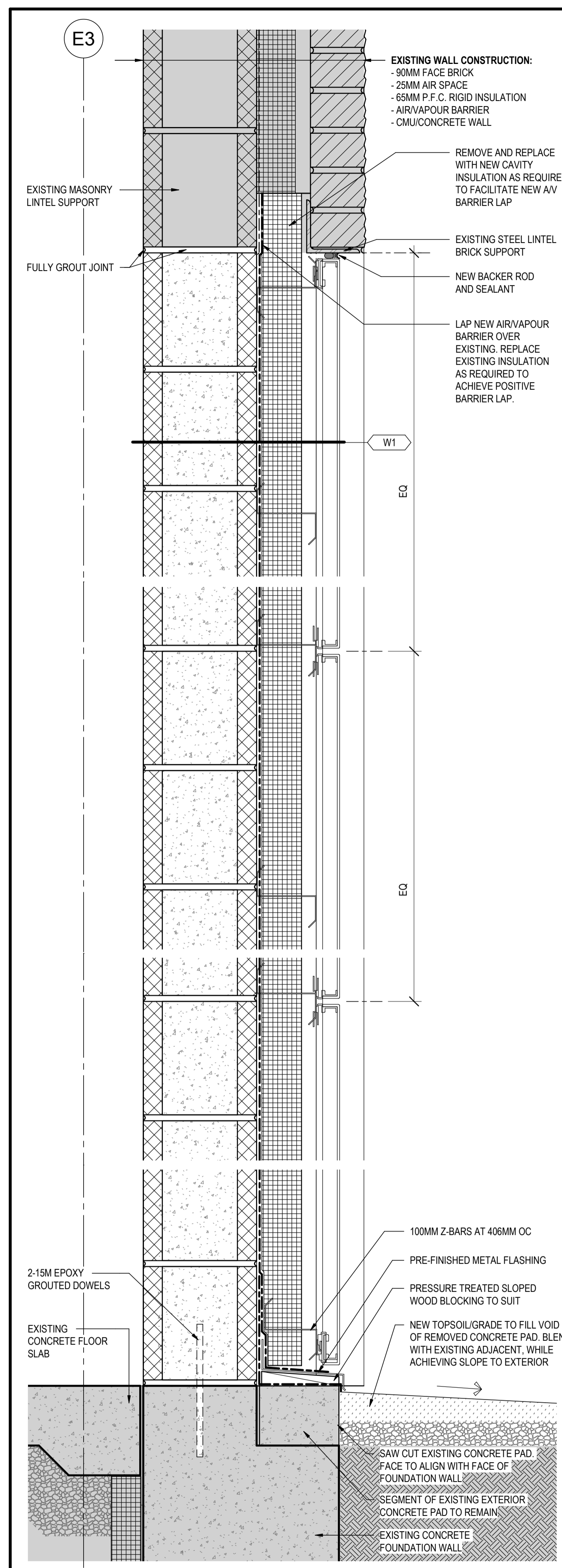


ROOM 101 SECTION/ELEVATION

SCALE: 1:25

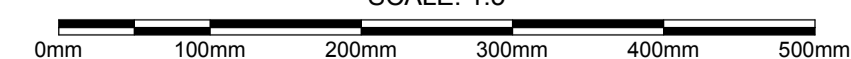


2
A701



DETAILED WALL SECTION

SCALE: 1:5



1
A701

0	ISSUED FOR TENDER	NOV 30/18
revisions		date

project HPDR B Division

100 E White Hills Rd, St. John's, NL, A1A 3T5

drawing dessein
DETAILS AND INTERIOR ELEVATION INFORMATION

designed Designer	conçu
date 07/19/18	
drawn Author	dessiné
date 07/19/18	
approved Approver	approuvé
date 07/19/18	
Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPJSGC
project number	no. du projet

140132533

drawing no. A701 no. du dessin

A701



GENERAL SPECIFICATIONS

- THE COMPLETE MECHANICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL BUILDING CODE, NFPA 13, CANADIAN PLUMBING CODE, ASHRAE AND SMACNA STANDARDS AND LOCAL BY-LAWS CURRENTLY IN FORCE IN THE PROVINCE AND MUNICIPALITY.
- ALL WORK SHALL BE PERFORMED BY PERSONS HAVING QUALIFICATIONS AS REQUIRED BY ANY AUTHORITY HAVING JURISDICTION AND WHO ARE COMPETENT IN THEIR TRADE.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY LOCAL INSPECTION AUTHORITY, THE OWNER OR HIS REPRESENTATIVE. MAKE CHANGES AND ALTERATIONS REQUIRED BY INSPECTION AUTHORITY WITHOUT CHARGE TO OWNER.
- PAYMENT FOR PERMITS AND DEPOSITS FOR THE WORK SHALL BE INCLUDED IN THE TENDER PRICE.
- BEFORE SUBMITTING A PROPOSAL FOR THE WORK COVERED BY THE SPECIFICATIONS, EACH BIDDER SHALL VISIT AND INSPECT THE SITE IN ORDER THAT HE MAY BE THOROUGHLY FAMILIAR WITH THE SITE AND LOCAL CONDITIONS, WITH THE CHARACTER AND DETAILS OF THE BUILDING CONSTRUCTION AND WITH ALL MATTERS WHICH CAN, IN ANY WAY, AFFECT THE WORK COVERED BY THE SPECIFICATIONS. NO CLAIM WILL BE ENTERAINED OR ALLOWED FOR ANY LABOUR, MATERIALS OR OTHER EXTRAS THAT MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE CONTRACT, WHICH COULD HAVE BEEN DETERMINED BY SITE EXAMINATION.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL MATERIALS EXCEPT AS OTHERWISE SPECIFIED. ALL MATERIALS SHALL BE NEW AND BEAR CSA AND ULC APPROVAL AS APPLICABLE.
- GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL NEW MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION OF THE WORK AND FINAL ACCEPTANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH WORK WITH OTHER TRADES.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CEILING DIFFUSERS, SPRINKLER HEADS, ETC. WITH ELECTRICAL DRAWINGS.
- TEST AND COMMISSION ALL MECHANICAL SYSTEMS, IN THE PRESENCE OF THE OWNERS REPRESENTATIVE, BEFORE FINAL ACCEPTANCE.
- SUBMIT THREE (3) COPIES OF SHOP DRAWINGS FOR AL NEW EQUIPMENT, FIXTURES AND CONTROLS.
- PROVIDE FIRE-RATED ULC LISTED ACCESS DOORS WHERE MECHANICAL ARE INSTALLED BEHIND NEW FIRE-RATED ASSEMBLIES.

SPECIFICATION - SECTION 15800 - AIR DISTRIBUTION

- DUCTWORK: NEW GALVANIZED STEEL OF LOCK FORMING QUALITY TO ASTM A924/A924M-924 ZINC COATING WITH GAUGES AND FABRICATION DETAILS TO SMACNA HIGH VELOCITY STANDARDS. FITTING: TO SMACNA AND ASHRAE. DUCT SEALER: OIL RESISTANT, POLYMER TYPE FLAME RESISTANT HIGH VELOCITY DUCT SEALING COMPOUND. HANGERS AND SUPPORTS: TO SMACNA AND ASHRAE. SEAMS, JOINTS AND CONNECTIONS TO BE MADE AIRTIGHT WITH SEALING COMPOUND AND TAPE. INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND STANDARDS. DUCTWORK TO BE INSTALLED AIRTIGHT.
- SUPPLY AND INSTALL DIFFUSERS AND GRILLES AS INDICATED ON DRAWINGS. DIFFUSERS IN RATED ASSEMBLIES SHALL BE ULC LISTED OR EQUIPPED WITH ULC FIRE STOP FLAPS AS INDICATED. SEE SCHEDULE FOR GRILLE AND DIFFUSER TYPES.
- ALL SUPPLY AIR DUCTS TO BE INSULATED WITH 40mm FIBERGLASS DUCT INSULATION FOR ROUND OR RECTANGULAR DUCT AS APPLICABLE C/W VAPOR BARRIER. OWENS CORNING, SOFIR.
- FLEXIBLE DUCT: NEW FLEXIBLE DUCT SHALL BE INSULATED DOUBLE AIR SEAL FULLY LINED FLEXIBLE DUCTWORK THERMOFLEX M-KC OR EQUAL. FLEX DUCT DIAMETER TO MATCH THAT OF CONNECTED DIFFUSER.
- HRV: SEE FAN SCHEDULE
- AIR SYSTEMS BALANCING
 - SUBMIT THREE COPIES OF THE FINAL AIR BALANCING REPORT IN BOUND MANUALS COMPLETE WITH INDEX PAGE AND INDEX TABS, AND COVER IDENTIFICATION AT FRONT AND SIDE.
 - INCLUDE TYPES, SERIAL NUMBERS AND DATES OF CALIBRATION OF ALL INSTRUMENTS USED.
 - FOLLOW AABC STANDARDS.
 - AIR BALANCE COMPANT TO BE NEBB OR AABC CERTIFIED.

SPECIFICATION - SECTION 15300 - FIRE PROTECTION

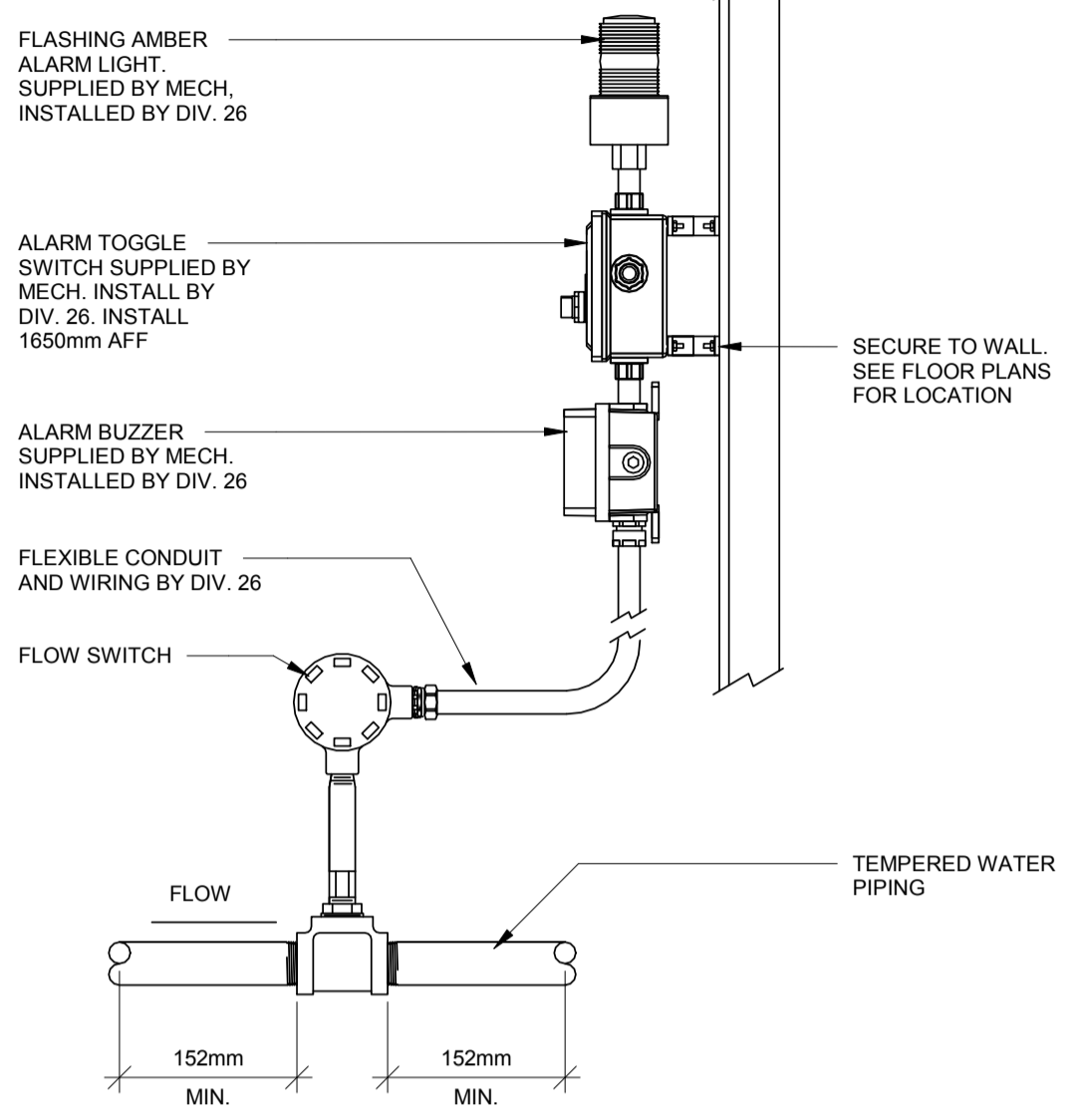
- FIRE EXTINGUISHERS: PROVIDE 4.5 KG 2A-10B-C MULTI-PURPOSE DRY CHEMICAL FIRE EXTINGUISHER WHERE INDICATED. MOUNT EXTINGUISHER AT THE FOLLOWING HEIGHTS:
 - GENERAL APPLICATION: MOUNT 1500mm AFF TO TOP OF EXTINGUISHER.

SPECIFICATION - PLUMBING

- FIXTURES AND TRIM:
 - PLUMBING FIXTURES SHALL BE THE PRODUCT OF ONE MANUFACTURER ALL FIXTURES TO BE WHITE.
 - ACCEPTABLE PRODUCTS: CRANE, AMERICAN STANDARD, KOHLER OR KINDRED.
 - TRIM SHALL BE OF ONE MANUFACTURER.
 - ACCEPTABLE PRODUCTS: CRANE, CHICAGO FAUCET, DELTA OR EMCO AND EQUAL IN QUALITY TO THE SPECIFIED PRODUCT.
- MATERIALS:
 - WETROOM CHINA TO CAN/CSA B45 SERIES.
 - STAINLESS STEEL FIXTURES TO CSA B45.
 - PLUMBING FITTINGS TO CAN/CSA B125.
- PIPE AND FITTINGS:
 - DRAINAGE WASTE AND VENT PIPING
 - PIPE: COPPER OR CAST IRON TO CSA, WHERE EXPOSED, P.V.C UNDERSLAB
 - FITTINGS: SAME AS PIPE.
 - JOINTS: SOLDER OR M.J.
 - DRAINAGE AND VENT PIPING (65mm AND SMALLER):
 - PIPE: DWV COPPER CONFORMING TO ASTM/B306-92
 - FITTINGS: COPPER-CAST BRASS CONFORMING TO CAN/CSA-B125.93
 - JOINTS: COPPER 90-90 SOLDERED, SCREWED AT FIXTURES. PVC DWV SAME AS PIPE.
 - JOINTS: COPPER 90-90 SOLDERED, SCREWED AT FIXTURES. PVC DWV SOLVENT WELD. ALL URINAL PIPING SHALL BE CAST IRON
 - WATER PIPING ABOVE SLAB:
 - PIPE: TYPE 1' COPPER CONFORMING TO ASTM/B42-93, B88-93a.
 - FITTINGS: WROUGHT COPPER OR CAST BRASS.
 - JOINTS: 95-5 SOLDER. UNIONS AT FIXTURES.
- INSULATION:
 - INSULATE DOMESTIC HOT WATER LINES WITH FORMED FIBROUS GLASS TO 82°C. STANDARD OF ACCEPTANCE: FIBERGLAS 850.
 - INSULATE DOMESTIC COLD WATER LINES WITH FORMED FIBROUS GLASS WITH VAPOUR BARRIER (10° - 16°C). STANDARD OF ACCEPTANCE: FIBERGLAS 850.
 - PIPE INSULATION:
 - ONE INCH (25mm) THICK INSULATION ON ALL PIPING UP TO 50mm:
 - DOMESTIC HOT WATER PIPE.
 - DOMESTIC RE-CIRCULATION PIPE.
 - DOMESTIC COLD WATER PIPE.
 - ONE AND A HALF INCH (40mm) THICK INSULATION ON ALL PIPING 65mm AND UP:
 - DOMESTIC HOT WATER PIPE.
 - DOMESTIC RE-CIRCULATION PIPE.
 - DOMESTIC COLD WATER PIPE.
 - ALL ABOVE GROUND STORM DRAINAGE PIPE TO BE INSULATED WITH ONE INCH (25mm) THICK INSULATION.
 - INSULATION WILL NOT BE APPLIED UNTIL ALL THE REQUIRED TESTS HAVE BEEN COMPLETED.

NOTE:

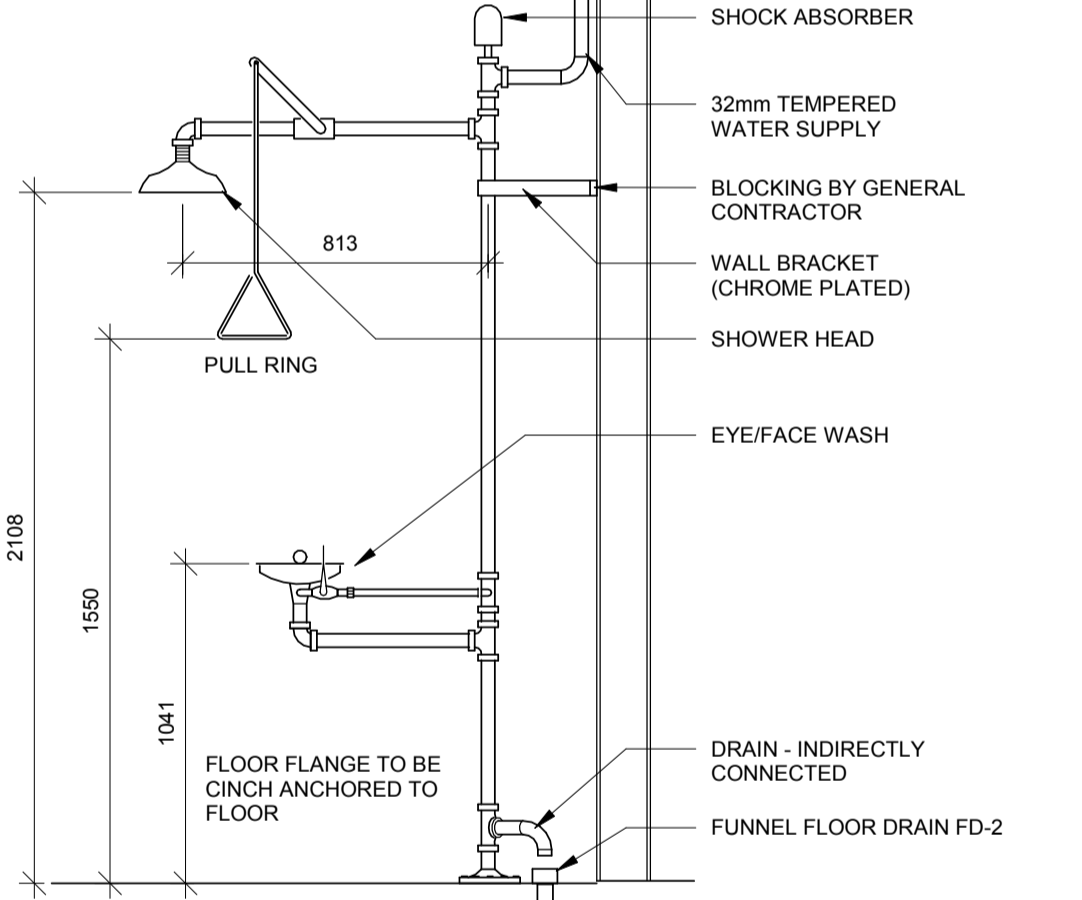
- ALARM ASSEMBLY TO BE INSTALLED IN A VISIBLE LOCATION.
- FLOW SWITCH TO BE INSTALLED AS INDICATED AND AS PER MANUFACTURER'S INSTRUCTIONS.
- ALARM ASSEMBLY TO BE HAWS 9001 SERIES OR APPROVED ALTERNATE. SEE ALSO SCHEDULE.



1 M001 EMERGENCY FIXTURE AUDIBLE/VISUAL ALARM SCALE NTS

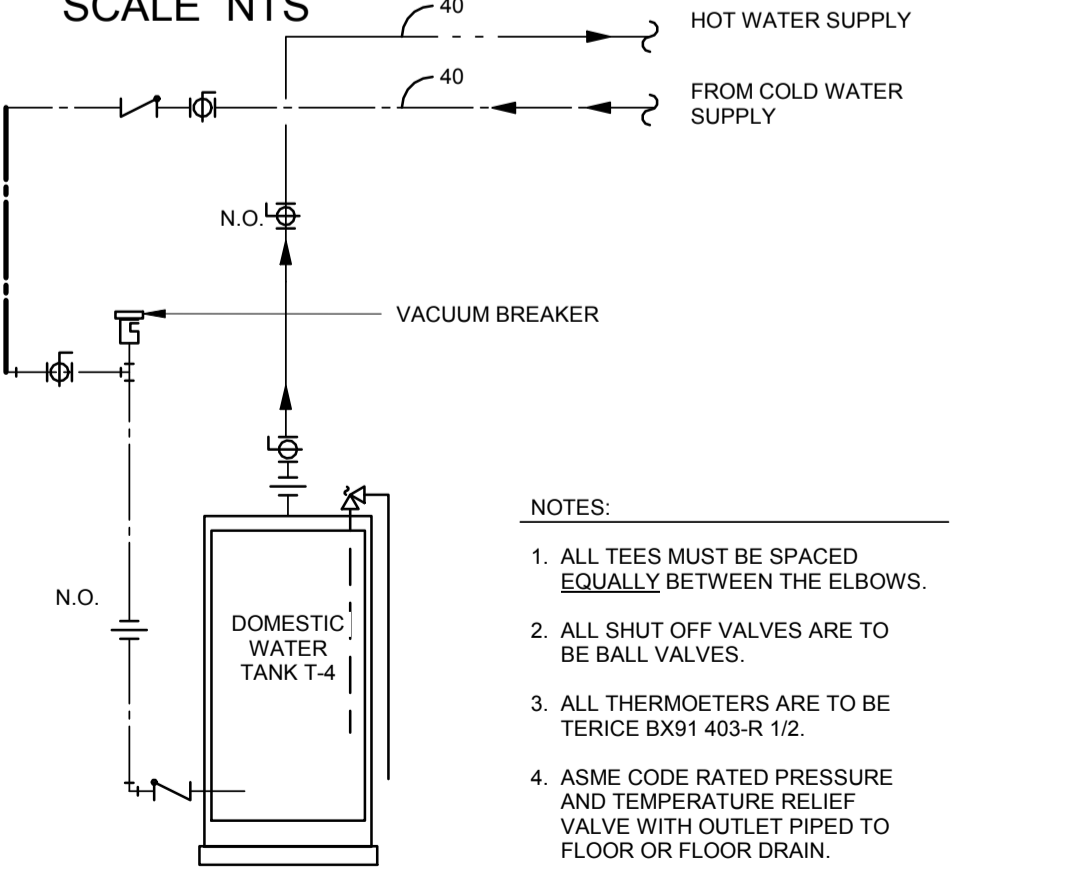
NOTES:

- TO COMPLY WITH ANSI Z-358.1-2007 FOR EMERGENCY EYE WASH/SHOWER COMBINATION, EQUIPMENT AND UNIT SHALL BE INSTALLED IN ACCORDANCE WITH ACCEPTABLE PLUMBING PRACTICES.
- DO NOT USE REGULAR PIPE SEALANT. IF NECESSARY, USE DOW CORNING 832 SEALANT PLACING 5 SMALL BEADS ON MALE THREADS JUST ABOVE FIRST THREAD.
- PROVIDE ONE EMERGENCY SHOWER TEST KIT, HAWS 9010 OR EQUAL.



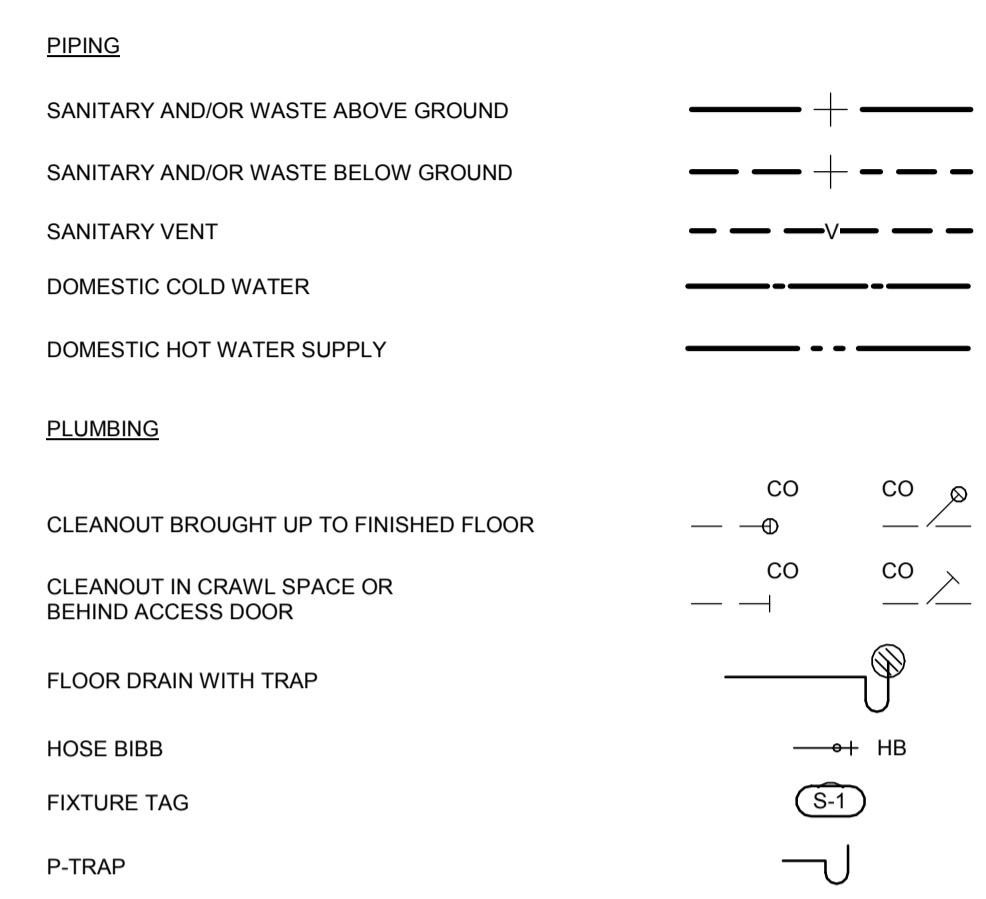
2 M001 EMERGENCY SHOWER AND EYE WASH COMBINATION UNIT SCALE NTS

NOTES:

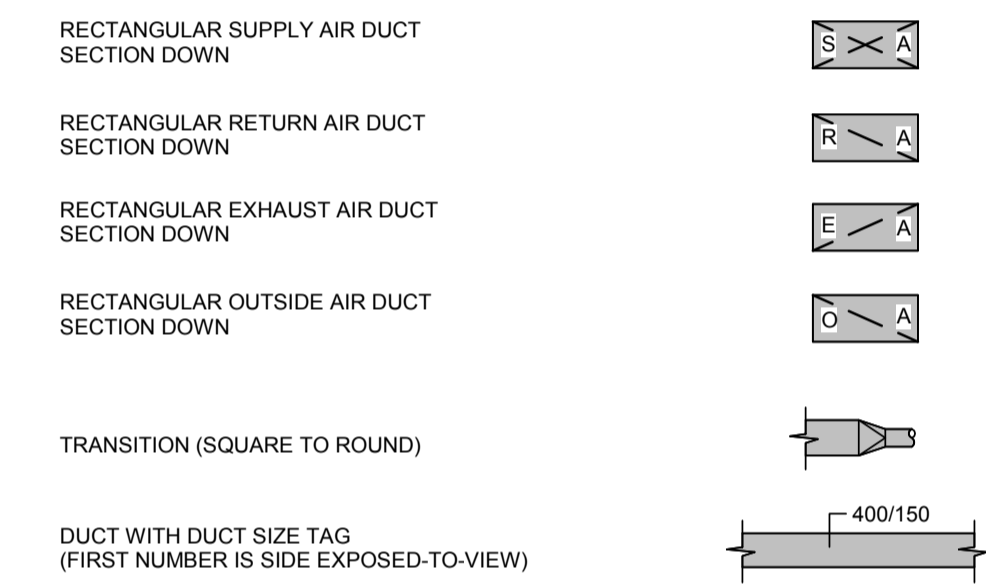


3 M001 DOMESTIC HOT WATER TANKS DETAILS SCALE NTS

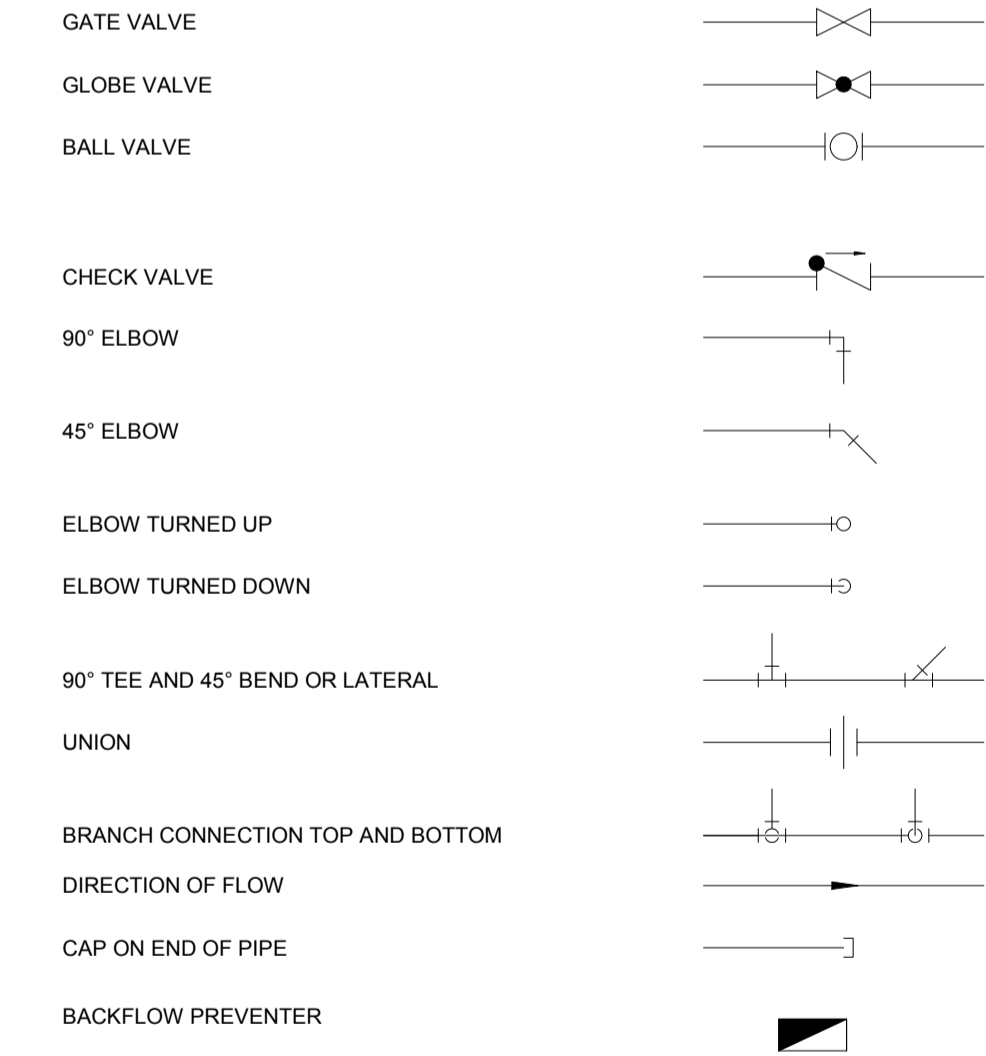
PIPING SYSTEMS



AIR DISTRIBUTION



BASIC MATERIAL AND METHODS

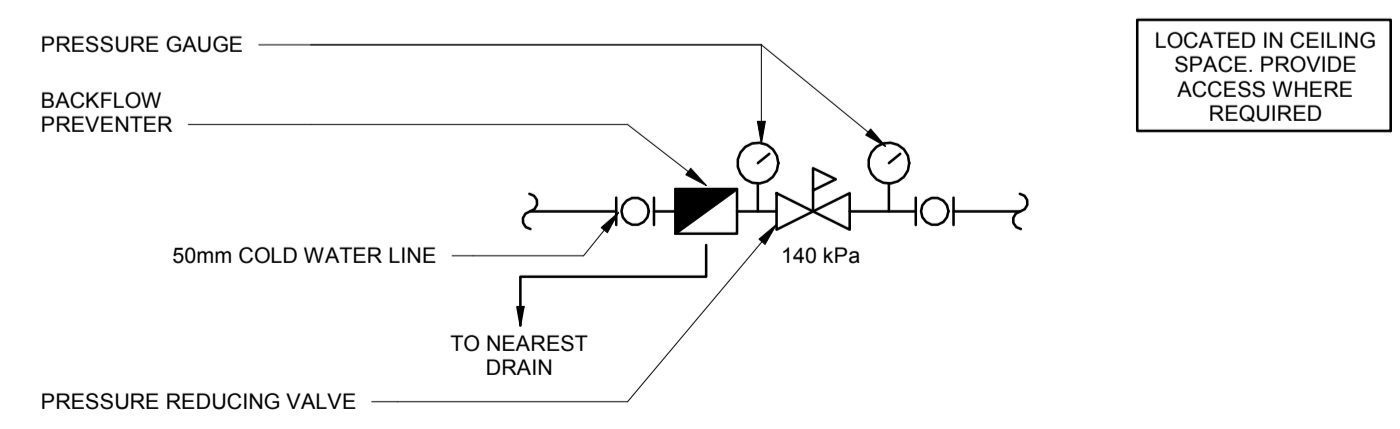


FIRE PROTECTION



ABBREVIATIONS

CO	CLEANOUT
FD	FLOOR DRAIN
SK	SINK
HRV	HEAT RECOVERY VENTILATOR
VTR	VENT THRU ROOF
HWT	HOT WATER TANK



4 M001 BACKFLOW PREVENTER SCALE NTS



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ENGINEERING PERMIT J0291
 STANTEC CONSULTING LTD.
 04642
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0	Issued for Tender	Nov. 30/18
revisions		date

project 100 E White Hills Rd, St. John's NL A1A 3T5
 HPDPR - B DIVISION

LEGEND, MECHANICAL SPECIFICATIONS AND DETAILS

designed T.A/B.D.	conçu
date 12/07/16	
drawn J.L.	dessiné
date 12/07/16	
approved B.D.	approuvé
date 12/07/16	
Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC
project number	no. du projet
140132533	
drawing no.	no. du dessin
M001	



PLUMBING FIXTURE SCHEDULE													
FIX. NO.	FIXTURE TYPE	MANUFACTURE/ MODEL	COLOR	TRIM	SUPPLY	WASTE	TRAP	CONNECTIONS				MOUNTING HEIGHT	REMARKS
								DRAIN	VENT.	H.W.	C.W.		
SK-1	SCULLERY SINK	ELKAY - WNSF8124L2	S.S.	YES	YES	YES	P-TRAP	50	40	20	20	LEGS/WALL	C/W ELKAY LK398C DOUBLE FOOT VALVE FOOT PEDALS, 14 ga. TYPE 304 STAINLESS STEEL BODY, 229mm BACKSPLASH, STAINLESS STEEL TUBULAR LEGS WITH ADJUSTABLE FEET.
FD-1	FLOOR DRAIN	ZURN MODEL ZN415-B	-	-	-	-	P-TRAP	100	-	-	-	-	100mmØ FLOOR DRAIN C/W NO HUB OUTLET, NICKEL BRONZE STRAINER
FD-2	FLOOR DRAIN	ZURN MODEL ZN415-BF	-	-	-	-	P-TRAP	50	-	-	-	-	50mmØ FLOOR DRAIN C/W OPEN FUNNEL, NO HUB OUTLET, NICKEL BRONZE STRAINER
WH-1	WALL HYDRANT	ZURN MODEL Z1341XL	-	-	-	-	-	-	-	20	-	-	LEAD FREE WALL MOUNTED HOSE BIBB, POLISHED BRONZE FINISH, C/W EXTERNAL VACUUM BREAKER, 20mm MALE HOSE CONNECTION, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, VANDAL RESISTANT AND 1/2 TURN SECURE WHEEL TYPE HANDLE.
ES-1	EYE WASH/ SHOWER	GUARDIAN - G1996	-	-	-	-	-	32	32	-	-	-	ALL STAINLESS STEEL CONSTRUCTION, C/W COMBINATION FLASHING LIGHT, ALARM HORN AND MIXING VALVE MV-1
MV-1	MIXING VALVE	GUARDIAN - G3802LF	-	-	-	-	-	-	-	25	25	-	EMERGENCY EYEWASH AND SHOWER MIXING VALVE C/W TEMPERATURE GAUGE, STOPS AND STAINLESS STEEL CABINET

NOTE: REFER TO MECHANICAL SPECIFICATIONS FOR DESCRIPTIONS.

HEAT RECOVERY VENTILATOR UNIT SCHEDULE												
TAG	TYPE	STANDARD OF ACCEPTANCE	DESIGN AIR OUTDOOR VOLUME (L/S)	DESIGN EXHAUST AIR VOLUME (L/S)	AHRI 1060 EFFECTIVENESS		EXTERNAL STATIC PRESSURE @ Pa	FILTER MERV	MOTOR kW		ELECTRICAL DATA V/Ø/Hz	ACCESSORIES AND NOTES
					WINTER	SUMMER			SUPPLY	RETURN		
HRV-1	FIXED PLATE HEAT RECOVERY VENTILATOR	LIFEBREATH - 195 DCS	75	75	65%	49%	150	-	0.15	0.15	120/1/60	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

NOTE: REFER TO MECHANICAL SPECIFICATIONS FOR DESCRIPTIONS.

ELECTRIC HEATING COIL SCHEDULE				
TAG	UNIT SERVED	HEATING KW	VOLTAGE	REMARKS
EHC-1	HRV-1	2	208/1/60	C/W SCR CONTROLLER, AIR PROOVING AND DUCT STAT. SLIP IN STYLE AND DISCONNECT.

TANK SCHEDULE					
TAG	APPLICATION	STANDARD OF ACCEPTANCE	ORIENTATION	TANK VOLUME (L)	REMARKS
HWT-1	DOMESTIC HOT WATER	AO SMITH DVE-80-15	VERTICAL	300 LITRE	VOLTAGE 208/3/60, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

NOTE: REFER TO MECHANICAL SPECIFICATIONS FOR DESCRIPTIONS.

GRILLE AND DIFFUSER SCHEDULE								
TAG	TYPE	STANDARD OF ACCEPTANCE	INLET SIZE	FACE SIZE	MAXIMUM I/C	MAX. STATIC PRESSURE	MOUNTING FRAME	REMARKS
SG-1	SUPPLY	PRICE - SDG AL	AS SHOWN	AS SHOWN	27	25 Pa	DUCT MOUNTED	PROVIDE BALANCING DAMPER IN THE BRANCH SUPPLY DUCT FOR THE DIFFUSER, ALUMINUM GRILLE
EG-1	EXHAUST	PRICE - 610Z	AS SHOWN	AS SHOWN	27	25 Pa	WALL MOUNTED	PROVIDE BALANCING DAMPER IN THE BRANCH EXHAUST DUCT FOR THE GRILLE, ALUMINUM GRILLE

NOTE: REFER TO MECHANICAL SPECIFICATIONS FOR DESCRIPTIONS.

KEY NOTES - HVAC

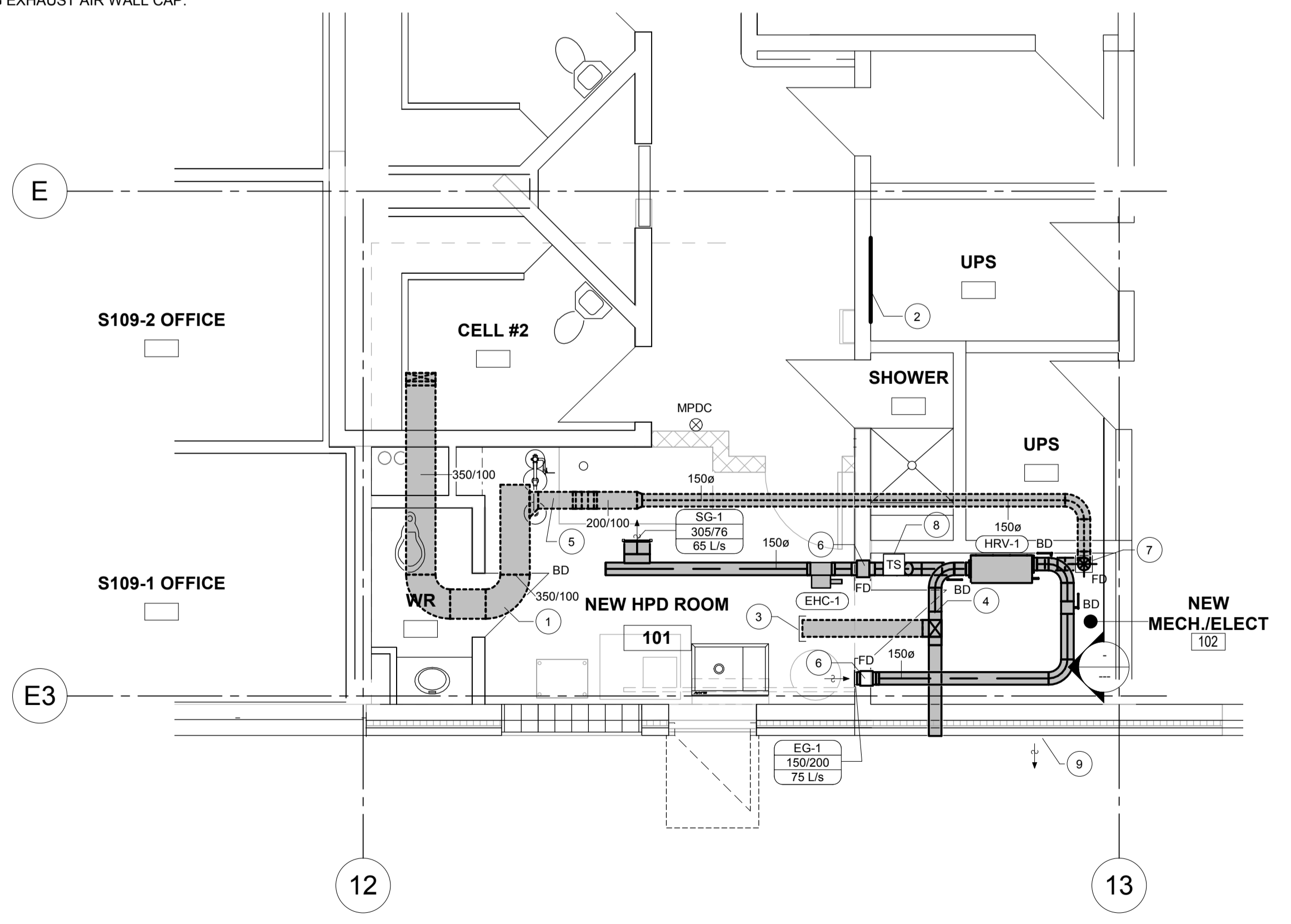
- EXISTING 350x100 FRESH AIR DUCT IN CEILING SPACE, FROM LOUVERED FRESH AIR INTAKE ON ROOF ABOVE.
- ACCESS HATCH IN WALL TO CONFINED CEILING SPACE, CONFIRM EXACT LOCATION ON SITE. CONTRACTOR TO HAVE CONFINED SPACE TRAINING AND PROCEDURES FOR WORK IN CONFINED CEILING SPACE.
- CAP EXISTING EXHAUST AIR DUCT FROM CELL #2
- CONNECT NEW EXHAUST AIR DUCT FROM HRV TO EXISTING 200x150 EXPOSED EXHAUST AIR DUCT.
- CONNECT NEW 200/100 FRESH AIR DUCT INTO EXISTING DUCT.
- INSTALL FIRE DAMPER IN WALL PENETRATION.
- NEW 150mm DIA. DUCT UP TO CONFINED CEILING SPACE, C/W FIRE DAMPER.
- HRV WALL MOUNTED CONTROLLER.
- EXISTING EXHAUST AIR WALL CAP.

GENERAL SHEET NOTES

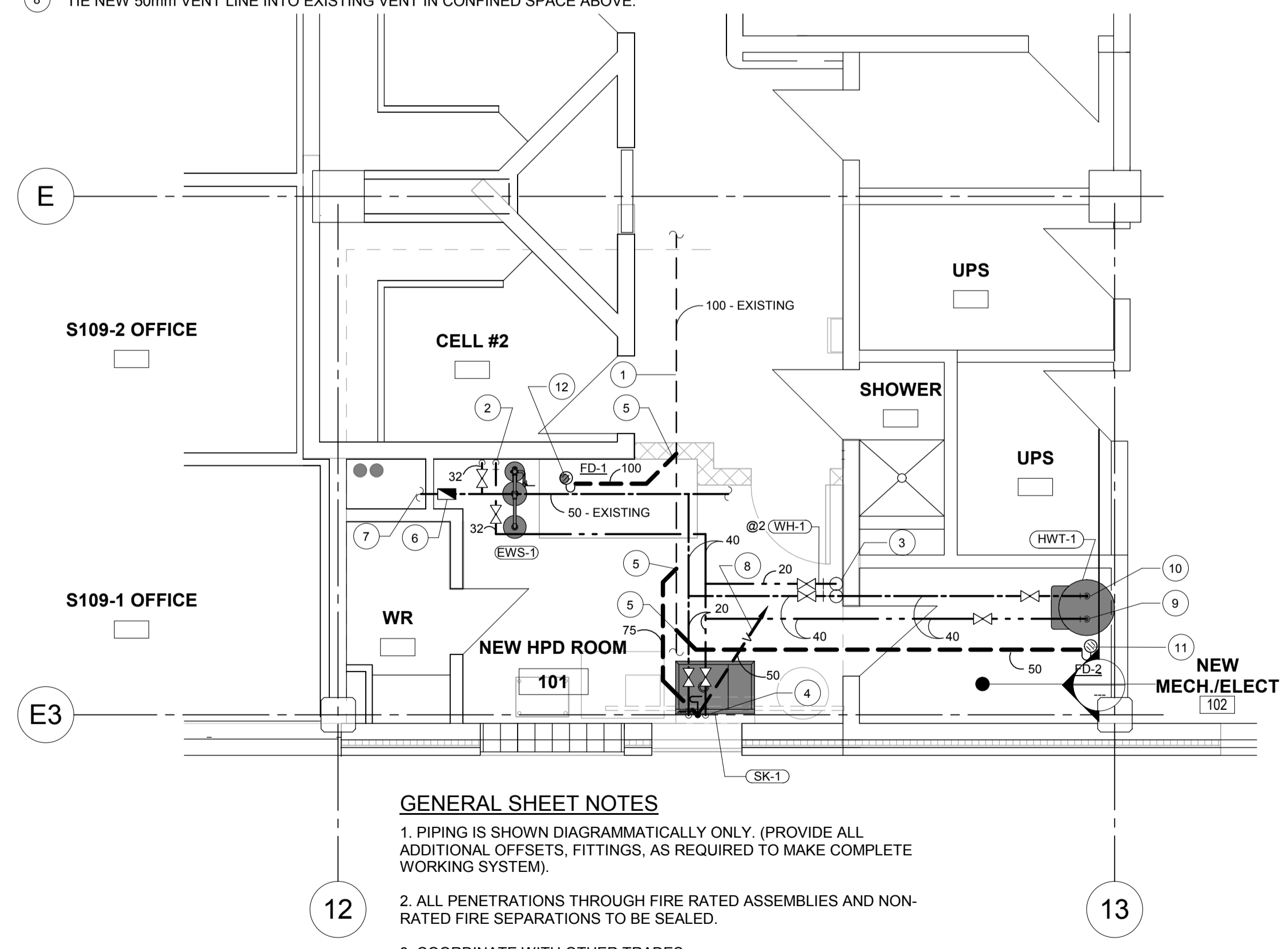
- DUCTING IS SHOWN DIAGRAMMATICALLY ONLY. (PROVIDE ALL ADDITIONAL OFFSETS, FITTINGS, AS REQUIRED TO MAKE COMPLETE WORKING SYSTEM).
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES AND NON-RATED FIRE SEPARATIONS TO BE SEALED.
- ALL DUCTWORK TO BE ALUMINUM.
- ALL DUCTWORK TO BE RUN TIGHT TO UNDERSIDE OF CEILING.
- ALL DASHED DUCTWORK IS LOCATED IN CONFINED CEILING SPACE ABOVE.
- COORDINATE WITH OTHER TRADES.

KEY NOTES - PLUMBING

- EXISTING 100mm UNDERSLAB SANITARY LINE, CONFIRM EXACT LOCATION ON SITE.
- 32mm DIA HOT AND COLD DOWN TO EMERGENCY EYEWASH AND SHOWER MIXING VALVE STATION. MOUNT MIXING VALVE STATION ON WALL WITH A STAINLESS STEEL SURFACE MOUNT CABINET.
- 20mm DIA, HOT AND COLD WATER DOWN TO WALL MOUNTED HOSE BIBS.
- 20mm DIA, HOT AND COLD WATER DOWN TO SINK.
- CONNECT INTO EXISTING SANITARY LINE AT THIS APPROXIMATE LOCATION.
- 40mm LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY, RATED AT 76LPM WITH A PRESSURE DROP OF 27.6KPA
- APPROXIMATE LOCATION OF EXISTING 50mm DIA COLD WATER LINE IN CONFINED SPACE, CONFIRM EXACT LOCATION ON SITE.
- TIE NEW 50mm VENT LINE INTO EXISTING VENT IN CONFINED SPACE ABOVE.
- LOCATE HOT WATER TANK SO AS TO NOT INTERFERE WITH CLEARANCE TO NEW ELECTRICAL PANEL IN THIS ROOM.
- HOT WATER TANK C/W GALVANIZED DRAIN PAN, PIPE DRAIN TO NEAREST FLOOR DRAIN.
- 50mm FUNNEL FLOOR DRAIN.
- 100mm FUNNEL FLOOR DRAIN.



2 HVAC- LEVEL 1
M100 SCALE 1:50



1 PLUMBING DRAINAGE - LEVEL 1
M100 SCALE 1:50



PROVINCE OF NEWFOUNDLAND AND LABRADOR
ENGINEERING PERMIT J0291
STANTEC CONSULTING LTD.
04642
Signature or Member Number (Member-in-Responsible Charge)

0	Issued for Tender	Nov. 30/18
revisions		date

project
100 E White Hills Rd, St. John's NL A1A 3T5
HPDPR - B DIVISION

drawing
LEVEL 1- HVAC AND PLUMBING PLANS, AND MECHANICAL SCHEDULES

designed B.C.A/B.D.	conçu
date 12/07/16	
drawn B.C.A	dessiné
date 12/07/16	
approved B.D.	approuvé
date 12/07/16	
Tender	Soumission
PWGSC Project Manager Administrateur de projets TPSGC	
project number	no. du projet
140132533	
drawing no.	no. du dessin
M100	



ELECTRICAL LEGEND

POWER DISTRIBUTION

- OUTLET OR JUNCTION BOX.
- OUTLET OR JUNCTION BOX.
- MANUAL MOTOR STARTER. NEMA RATED.
- COMBINATION TYPE MAGNETIC MOTOR STARTER. NEMA RATED.
- SAFETY DISCONNECT SWITCH SIZED TO SUIT. NEMA RATED.
- FUSED SAFETY DISCONNECT SWITCH SIZED TO SUIT. NEMA RATED.
- DIRECT CONNECTION TO MECHANICAL EQUIPMENT.
- RECESSED MOUNTED ELECTRICAL PANEL.
- SURFACE MOUNTED ELECTRICAL PANEL.
- D.C. WIRING.
- A.C. WIRING. SHORT LINE INDICATES PHASE CONDUCTOR, LONG LINE INDICATES NEUTRAL CONDUCTOR, DASHED LINE INDICATES GROUND CONDUCTOR.
- EMERGENCY STOP PUSHBUTTON STATION.

HEATING DEVICES

- LINE VOLTAGE 120V REVERSE ACTING (COOLING) THERMOSTAT. MOUNT 1200mm AFF.
- ELECTRIC UNIT HEATER TYPE 'C' 1500 WATTS. CONNECTED TO PANEL 'A' CIRCUIT NO. 1(3). (CEILING MOUNTED).

COMMUNICATIONS

- DATA OUTLET. 21mm CONDUIT TO CABLETRAY. PROVIDE A MODULAR FACE PLATE WITH YELLOW RJ45 FEMALE CONNECTOR. CONNECT WITH ONE YELLOW CAT. 6 CABLE
- VOICE OUTLET. 21mm CONDUIT TO CABLE TRAY. PROVIDE A MODULAR FACE PLATE WITH BLUE RJ45 FEMALE CONNECTOR. CONNECT WITH ONE BLUE CAT. 6 CABLE
- DIGITAL CLOCK, WALL MOUNTED.
- DOOR BELL, WALL MOUNTED.

RECEPTACLES

- DUPLEX CONVENIENCE RECEPTACLE, 120V, 15 AMP, CSA TYPE 5-15R. MOUNT AT 400mm A.F.F. DECORA STYLE, WHITE IN COLOR.
- DUPLEX CONVENIENCE RECEPTACLE, 120V, 15 AMP, CSA TYPE 5-15R. MOUNT AT 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE, 120V, 15 AMP, CSA TYPE 5-15R. MOUNTED AT 400mm AFF. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE, 120V, 15 AMP, CSA TYPE 5-15R. MOUNTED 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- DUPLEX CONVENIENCE RECEPTACLE, 120V, 20 AMP T-SLOT, CSA TYPE 5-20R. MOUNT AT 400mm A.F.F. DECORA STYLE, WHITE IN COLOR.
- DUPLEX CONVENIENCE RECEPTACLE, 120V, 20 AMP T-SLOT, CSA TYPE 5-20R. MOUNT 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE, 120V, 20 AMP, T-SLOT, CSA TYPE 5-20R. MOUNTED AT 400mm AFF. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE, 120V, 20 AMP, T-SLOT, CSA TYPE 5-20R. MOUNTED 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.

LIGHTING DEVICES

- LED LUMINAIRE. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- EXIT SIGN. ARROW INDICATES DIRECTION OF EXIT. CEILING MOUNTED, LED TYPE, 120V. DOUBLE ARROW INDICATES DOUBLE-SIDED SIGNAGE.
- 'OCCUPIED' INDICATOR SIGN. SURFACE MOUNT ABOVE DOOR, LED TYPE, 120V. CONNECT TO ROOM LIGHTING CIRCUIT, SEE PLANS FOR CONTROL. EQUAL TO AIMLITE RPALW SERIES.
- EMERGENCY LIGHTING BATTERY UNIT. RATED FOR 90 MINS. 120V. C/W TWO MR16 LED WEATHERPROOF LAMPS. EQUAL TO AIMLITE EBWP SERIES. MOUNT 2400mm AFF.
- TOGGLE SWITCH, 120 VAC, 15 AMP. MOUNT AT 1200mm A.F.F., WHITE IN COLOR.

FIRE ALARM

- FIRE ALARM PULL STATION. MOUNTED 1100mm AFF.
- HEAT DETECTOR, COMBINATION RATE OF RISE, FIXED TEMPERATURE. 58°C.
- END OF LINE RESISTOR.
- BELL, WALL MOUNTED 2400mm AFF.
- PHOTOELECTRIC SMOKE DETECTOR.

LIST OF SUBSCRIPTS

- a - INDICATES SWITCHING ARRANGEMENT.
- WP - INDICATES WEATHERPROOF.
- W - INDICATES WALL MOUNTED.
- RL - INDICATES EXISTING TO BE RELOCATED.
- NL - INDICATES EXISTING IN NEW LOCATION.
- GFCI - INDICATES GROUND FAULT CIRCUIT INTERRUPTER
- o.c. - INDICATES MOUNTED OVER COUNTER
- E - INDICATES EXITING TO REMAIN.
- ER - INDICATES EXITING TO BE REMOVED.

NOTES

1. WHERE CONTRACTOR IS UNSURE OF WORK TO BE PERFORMED, CONTRACTOR SHALL REQUEST DIRECTION FROM DEPARTMENTAL REPRESENTATIVE.
2. WHERE IT IS PROPOSED TO MAKE CHANGE OR CHANGES IN THE DESIGN, AGREEMENT OR TYPE OF EQUIPMENT CALLED FOR IN THESE DRAWINGS/ SPECIFICATIONS, THE ELECTRICAL CONTRACTOR SHALL ESTIMATE THE COST OF SAME AND SUBMIT IN TRIPLICATE DETAILED ITEMIZED ESTIMATES OF THE COSTS OF ALL APPARATUS, MATERIALS AND LABOR ENTERING INTO THE CHANGE OR SUBSTITUTION.
3. ALL EQUIPMENT AND EXPOSED NON-CURRENT CARRYING METAL, CONDUITS AND PARTS TO BE PERMANENTLY AND EFFECTIVELY GROUNDED TO MEET MINIMUM REQUIREMENTS OF THE CEC SECTION 10 AND AS INDICATED ON DRAWINGS AND FURTHER SPECIFIED. STANDARDS SET EITHER BY DRAWINGS OR SPECIFICATIONS WHICH ARE ABOVE THOSE COVERED BY THE CEC SECTION 10 ARE NOT TO BE REDUCED UNDER ANY CIRCUMSTANCES.
4. EQUIPMENT TO BE RATED FOR SERVICE TO WHICH IT IS APPLIED, INCLUDING VOLTAGE CLASS, CONTINUOUS CURRENT RATING, INTERRUPTING RATING AND ENVIRONMENTAL CONDITION.

SPECIFICATIONS

1. SCOPE OF WORK:

- THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO:
- DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AS INDICATED INCLUDING CONDUIT AND WIRE.
 - CLEANING, RE-BALLASTING AND RELAMPING OF EXISTING LIGHTING FIXTURES.
 - SUPPLY AND INSTALLATION OF NEW LIGHTING, RECEPTACLES AND ASSOCIATED CONDUIT AND WIRE.
 - SUPPLY, INSTALLATION AND TESTING OF COMMUNICATIONS CABLING INCLUDING PULL WIRES AND OUTLETS.
 - SUPPLY, INSTALL AND PROVIDE CERTIFICATION FOR NEW FIRE ALARM DEVICES.

2. THE COMPLETE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND LOCAL BY LAWS CURRENTLY IN FORCE IN THE PROVINCE AND MUNICIPALITY.

3. ALL WORK SHALL BE PERFORMED BY PERSONS HAVING QUALIFICATIONS AS REQUIRED BY ANY AUTHORITY HAVING JURISDICTION AND WHO ARE COMPETENT IN THEIR TRADE.

4. ALL WORK SHALL BE SUBJECT TO INSPECTION BY LOCAL INSPECTION AUTHORITY, THE OWNER OR HIS REPRESENTATIVE. MAKE CHANGES AND ALTERATIONS REQUIRED BY INSPECTION AUTHORITY WITHOUT CHARGE TO OWNER.

5. PAYMENT FOR PERMITS AND DEPOSITS FOR THE WORK SHALL BE INCLUDED IN THE TENDER PRICE.

6. BEFORE SUBMITTING A PROPOSAL FOR THE WORK COVERED BY THE SPECIFICATIONS, EACH BIDDER SHALL VISIT AND INSPECT THE SITE OF THE RENOVATIONS IN ORDER THAT HE MAY BE THOROUGHLY FAMILIAR WITH THE SITE AND LOCAL CONDITIONS, WITH THE CHARACTER AND DETAILS OF THE DEMOLITION AND NEW CONSTRUCTION AND WITH ALL MATTERS WHICH CAN, IN ANY WAY, AFFECT THE WORK COVERED BY THE SPECIFICATIONS. NO CLAIM WILL BE ENTERTAINED OR ALLOWED FOR ANY LABOUR, MATERIALS OR OTHER EXTRAS THAT MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE CONTRACT, WHICH COULD HAVE BEEN DETERMINED BY SITE EXAMINATION.

7. CONTRACTOR SHALL SUPPLY AND INSTALL ALL MATERIALS EXCEPT AS OTHERWISE SPECIFIED. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND BEAR CSA APPROVAL.

8. ALL CIRCUIT BREAKERS SHALL MATCH THE EXISTING FOR ALL PANELS.

9. WIRING: IN GENERAL, UNLESS OTHERWISE NOTED, SHALL BE RW90 COPPER CABLES IN EMT.

10. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE WHITE COLOR COMPLETE WITH STAINLESS STEEL COVERPLATES IN FS TYPE JUNCTION BOX, SURFACE MOUNT. PROVIDE HEAVY DUTY WEATHERPROOF COVERS WHERE APPLICABLE.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH WORK OF OTHER TRADES. UNLESS OTHERWISE NOTES, MECHANICAL EQUIPMENT CONTROL WIRING (<50V) SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR.

12. GUARANTEE: THIS CONTRACTOR SHALL GUARANTEE ALL NEW MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF COMPLETION OF THE WORK AND FINAL ACCEPTANCE.

13. DATA SYSTEM

13.1 FACE PLATES:

- .1 DATA OUTLETS SHALL BE A SINGLE GANG MDVO 4-PORT FACE PLATE C/W RJ45, PS5, MDVO ISDN JACK. CAT6 DATA JACKS TO BE YELLOW IN COLOR, CAT6 VOICE JACKS TO BE BLUE IN COLOR.
- .2 ALL FACE PLATES SHALL BE WHITE IN COLOR.

13.2 CABLING:

- .1 EACH OUTLET WILL BE WIRED WITH CATEGORY 6, 4-PAIR, CMP CABLES.
- .2 THE HORIZONTAL DATA CABLE INSTALLATION MUST MEET OR EXCEED THE EIA/TIA STANDARD FOR EMI (ELECTRO MAGNETIC INTERFERENCE) SEPARATION.
- .3 ALL HORIZONTAL CABLES WILL COMPLY WITH THE EIA/TIA SPECIFICATION FOR THE MINIMUM BEND RADIUS. FOR EMI (ELECTRO MAGNETIC INTERFERENCE) SEPARATION.

13.3 LABELING:

- .1 ALL COMMUNICATION CABLES (VOICE, DATA, VIDEO) TERMINATING AT THE SAME DESK LOCATION SHALL HAVE THE SAME CABLE NUMBER DESIGNATION I.E. 0001V, 0001L OR 0001C WHERE:

.2 THE LABELING SYSTEM SHALL BE REPRESENTED ON THE WORKSTATION FACE PLATE AND ON THE APPROPRIATE PATCH PANEL PORT.

13.5 DATA INSTALLATION REQUIREMENTS:

- .1 ALL CABLES, CONNECTORS, PATCH CORDS, ETC SHALL BE BY THE SAME MANUFACTURER.
- .2 INSTALLATION TO BE TESTED AND CERTIFIED TO CAT. 6(100 MHZ). IT MUST SUPPORT UP TO 100 MHZ BANDWIDTH, AND BE CERTIFIED FOR USE WITH 100 MPHS 100 VG LAN, TP-MPD, AND/OR 155 MPBS ASYNCHRONOUS TRANSFER MODE (ATM). CABLING CONTRACTOR WILL PERFORM A FULL LINK TEST ON EVERY CABLE. PROVIDE WRITTEN TEST RESULTS TO THE OWNER AT THE END OF THE INSTALLATION. REPLACE ALL DEFECTIVE MATERIALS.
- .3 INSTALL ALL CABLES NEATLY. PROPERLY SUPPORT ALL CABLES. LABEL ALL CABLES.

14. INSTALL NEW FIRE DETECTION COMPONENTS AS INDICATED. INSTALL ALL COMPONENTS IN ACCORDANCE WITH THE LATEST EDITION OF CAN/ULC-S524. REVERIFY FIRE ALARM SYSTEM COMPONENTS IN ACCORDANCE WITH THE LATEST EDITION OF CAN/ULC-S537. PROVIDE WRITTEN VERIFICATION CERTIFICATE.

15. PROVIDE SHOP DRAWINGS FOR ALL NEW ELECTRICAL AND COMMUNICATIONS EQUIPMENT FOR REVIEW BY THE ENGINEER PRIOR TO ORDERING MATERIALS.

16. PROVIDE O&M MANUALS INCLUDING REVIEWED SHOP DRAWINGS, AS-BUILT DRAWINGS, WARRANTIES, FIRE ALARM VERIFICATION CERTIFICATE AND DATA CABLE TESTING CERTIFICATES.

17. THE RIGHT IS RESERVED BY THE ENGINEER TO MAKE REASONABLE CHANGES REQUIRED TO ACCOMMODATE CONDITIONS ARISING DURING THE PROGRESS OF THE WORK. SUCH CHANGES SHALL BE DONE AT NO EXTRA COST TO THE OWNER UNLESS THE LOCATION, ARRANGEMENT OR CONNECTIONS MORE THAN 3.0M FROM THAT SHOWN.

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Signature or Member Number (Member-in-Responsible Charge)

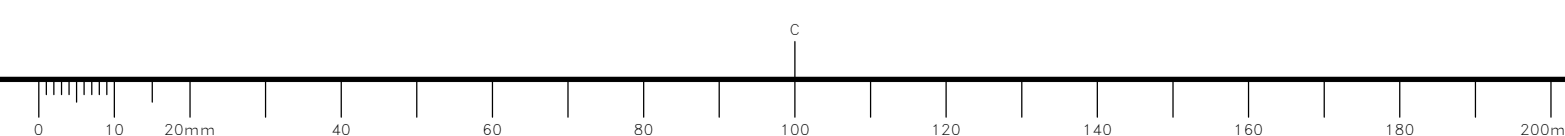
0	ISSUED FOR TENDER	NOV 30 2018
revisions		date

project HPDR B DIVISION

100 E White Hills Rd, St. John's, NL, A1A 3T5

ELECTRICAL LEGEND AND SPECIFICATION

designed J.D/D.L	conçu
date 10/17/18	
drawn J.D	dessiné
date 10/17/18	
approved D.L	approuvé
date 10/17/18	
Tender	Soumission
PWGSC Project Manager Administrateur de projets TPSGC	
project number	no. du projet
140132533	
drawing no.	no. du dessin
E101	





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project HPDR B DIVISION
 100 E White Hills Rd, St. John's, NL, A1A 3T5

drawing RISER DIAGRAM, PARTIAL PLAN AND SCHEDULES

designed J.D/D.L
 date 10/19/18
 drawn J.D
 date 10/19/18
 approved D.L
 date 10/19/18

Tender PWGSC Project Manager / Administrateur de projets TPSGC
 project number 140132533

drawing no. E102
 no. du dessin

NEW PANEL

Stantec
 Name: 1RF
 Location: Phases: 3
 Supply From: Wires: 4
 Serves: MCB Rating: 225 A
 Notes: Lugs: DO NOT USE

Volts: 208Y/120V
 Mains Type: Mains Rating: 225 A
 Type: Lighting and Panel Distribution Panel Boards
 A.I.C. Rating: SEE NOTE 1 BELOW
 Mounting: SURFACE
 Enclosure: DO NOT USE

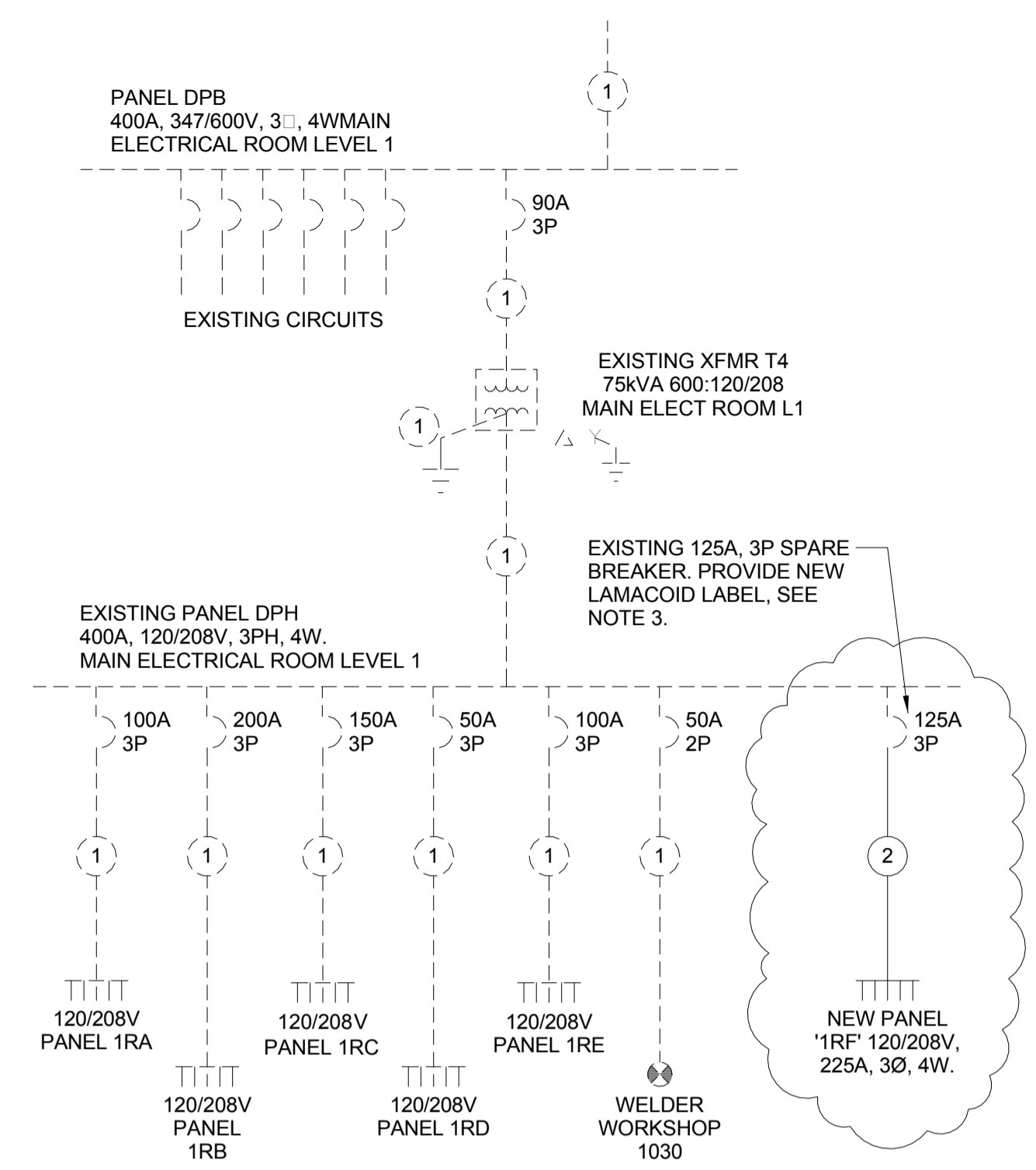
CKT	Circuit Description	Trip	Poles	CB	A	B	C	CB	Poles	Trip	Circuit Description	CKT	
1	REC - COUNTER ROOM 101	20 A	1		0.40	0.40			1	20 A	REC - ROOM 101	2	
3	REC - COUNTER ROOM 101	20 A	1			0.80	0.00		1	20 A	Spare	4	
5	EMERGENCY EYEWASH SHOWER	15 A	1	G			0.30	0.40		20 A	REC - ROOM 101	6	
7	HRV-1	15 A	1		0.18	1.50			2	20 A	UNIT HEATER ROOM 101	8	
9	HEATING COIL EHC-1	15 A	2			1.00	1.50					10	
11							1.00	5.00		3	60 A	HWT-1	12
13	Spare	15 A	1		0.00	5.00						14	
15	Spare	15 A	1			0.00	5.00					16	
17	Spare	15 A	1				0.00	0.00		1	20 A	Spare	18
19					0.00					1	20 A	Spare	20
21										1	20 A	Spare	22
23												24	
25												26	
27												28	
29												30	
31												32	
33												34	
35												36	
37												38	
39												40	
41												42	
Total Load:					7.24 kVA	8.05 kVA	6.70 kVA						
Total Amps:					61 A	68 A	56 A						
Load Classification				Connected Load	Demand Factor	Estimated Demand	Panel Totals						
Heating				3000 VA	75.00%	2250 VA	Total Conn. Load: 21954 VA						
Motor				15000 VA	100.00%	15000 VA	Total Est. Demand: 21323 VA						
Power				4480 VA	100.00%	4480 VA	Total Conn.: 61 A						
							Total Est. Demand: 59 A						

CB Legend (blank = circuit breaker):
 G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

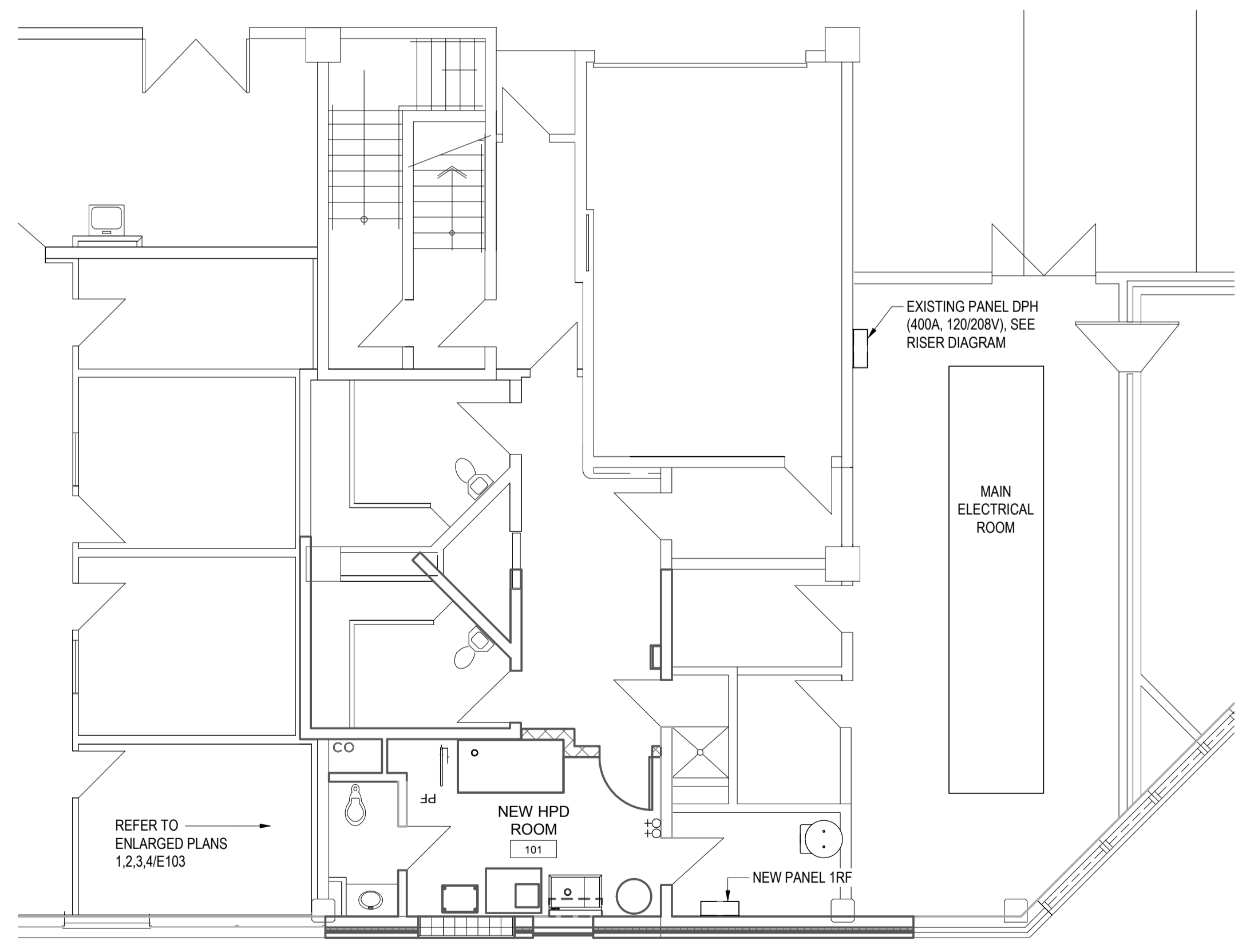
Notes:
 1. KAIC RATING OF PANELBOARD TO MATCH RATING OF EXISTING 125A BREAKER, CONTRACTOR TO VERIFY ON SITE.

NOTES:
 1. PARTIAL RISER DIAGRAM SHOWN FOR CLARITY. HIDDEN LINES INDICATE EXISTING TO REMAIN, UNLESS OTHERWISE INDICATED.
 2. AREA OF WORK CLOUDED.
 3. COORDINATE PANEL NAME TAGGING WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO SUPPLY AND INSTALLATION OF LAMACOID LABEL.

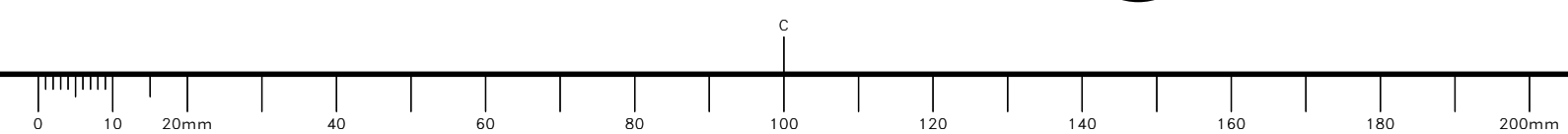
No.	DESCRIPTION	AMPACITY
1	EXISTING FEEDER TO REMAIN, UNLESS OTHERWISE INDICATED.	---
2	4 - #1 AWG RW90 COPPER CONDUCTORS PLUS 1 - #6 AWG BOND IN 41mm DIA. CONDUIT.	130



1 PARTIAL ELECTRICAL RISER DIAGRAM
 1:1



2 PARTIAL FLOOR PLAN - LEVEL 1
 1:75





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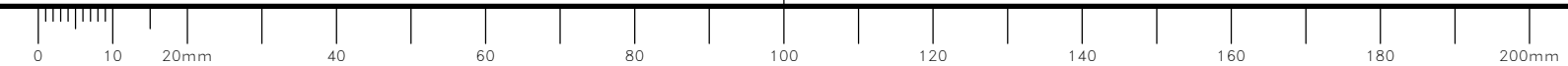
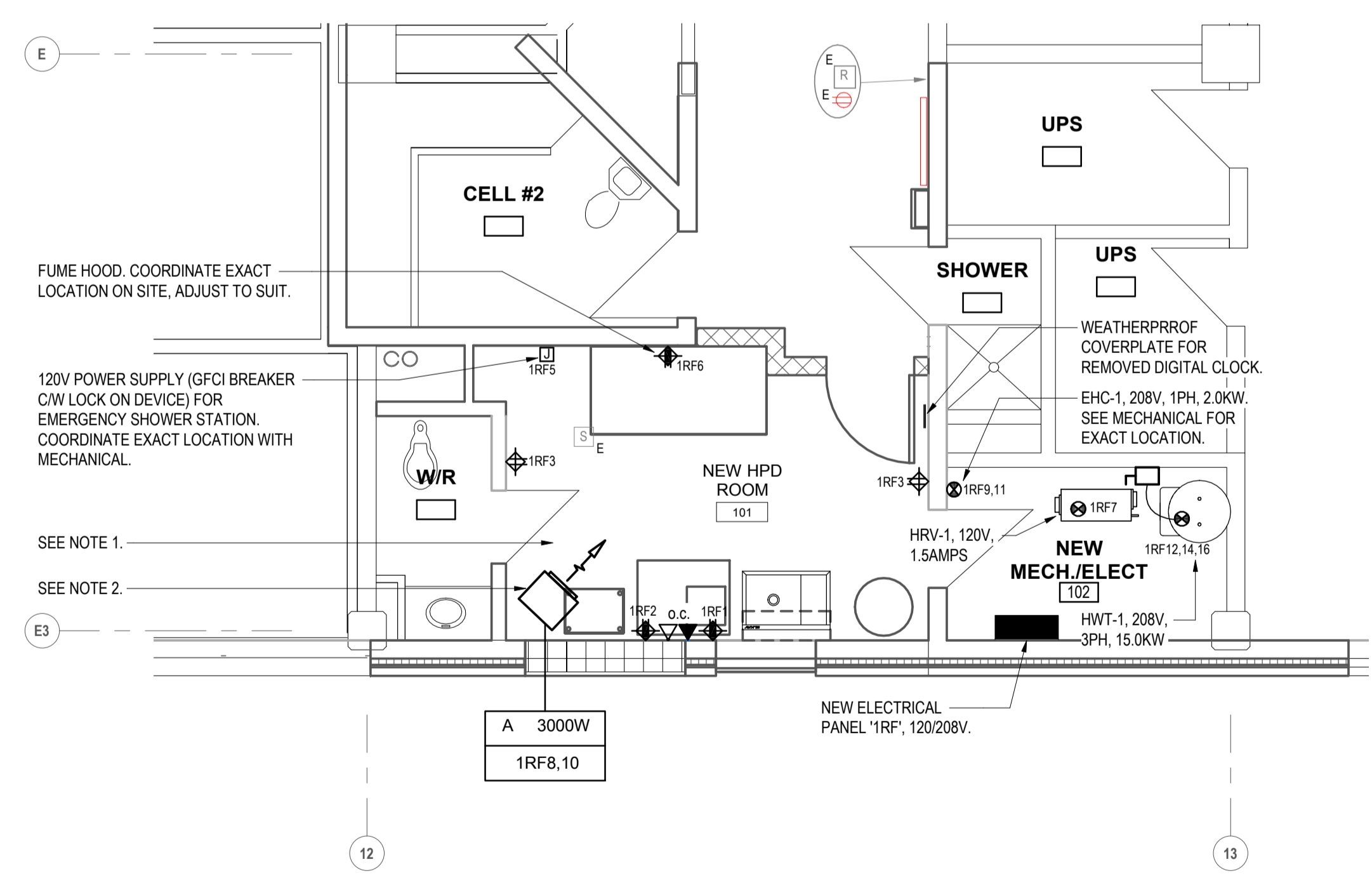
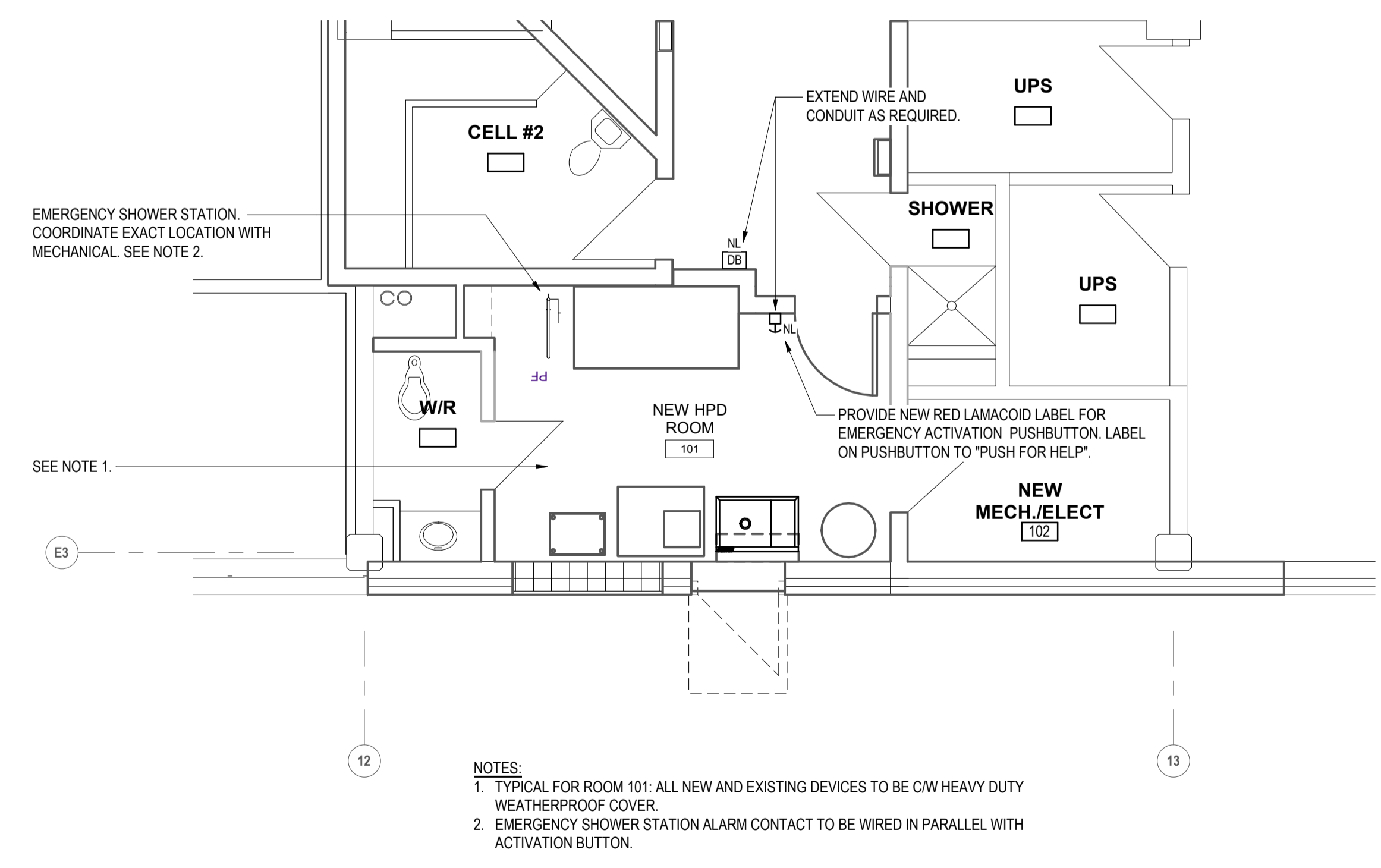
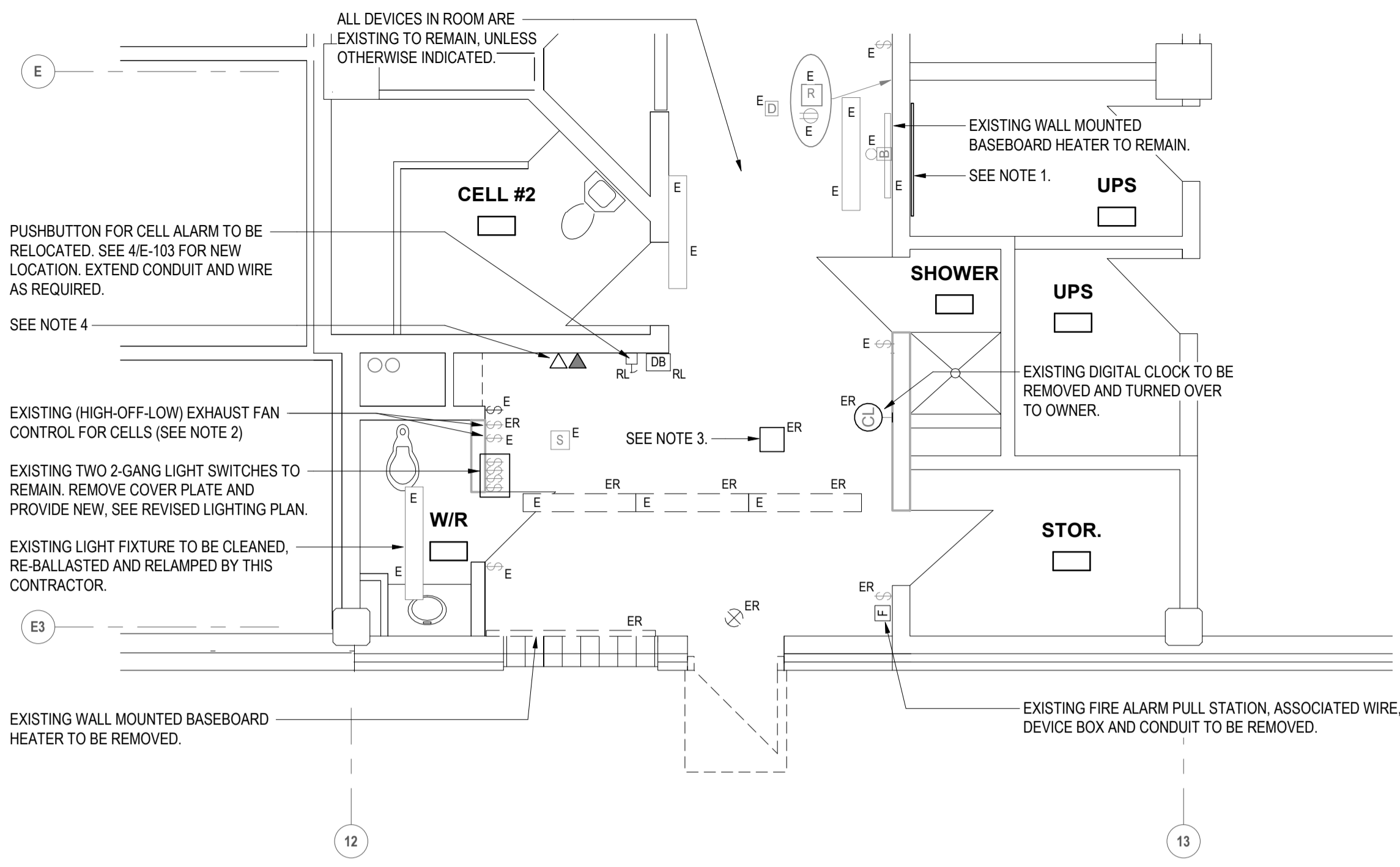
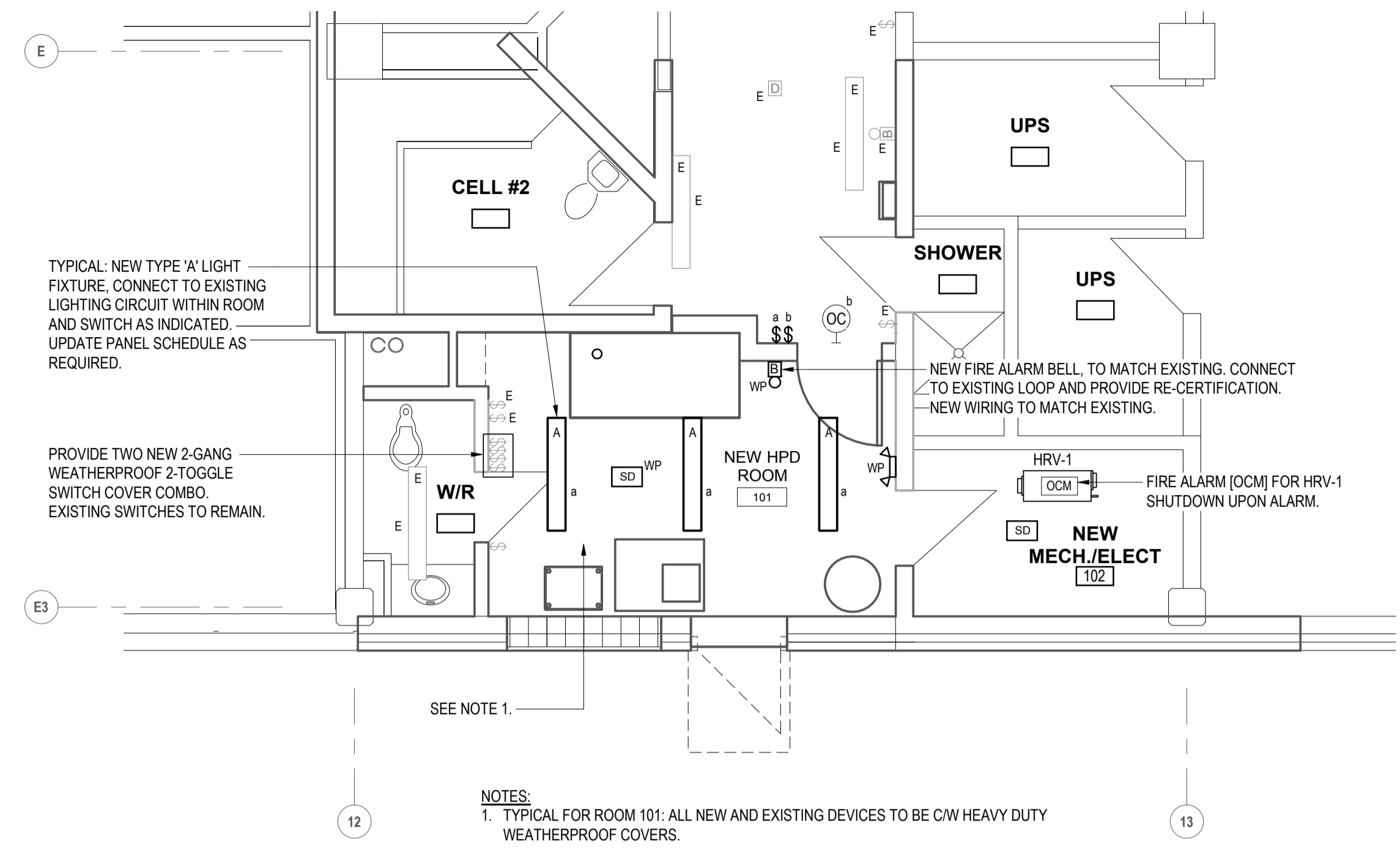
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project HPDR B DIVISION
 100 E White Hills Rd, St. John's, NL, A1A 3T5

PARTIAL FLOOR PLANS

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date 10/17/18	
drawn J.D	dessiné
date 10/17/18	
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PWGSC Project Manager / Administrateur de projets TPWGC	
project number 140132533	no. du projet
drawing no. E103	no. du dessin





MECHANICAL		EQUIPMENT		MOTOR		STARTER		AND		CONTROL		LIST	
E - DIVISION 16	1 - STOP - START	5 - CONTROL RELAY	9 - ELECTRO PNEUMATIC RELAY	13 - FLOAT SWITCH	17 - CONTROL TRANSFORMER	21 - FREEZE PROTECTION	25 - TIMER	29 - ELECTRONIC SOFT START					
M - DIVISION 15	2 - ON - OFF	6 - TIMING RELAY	10 - PNEUMATIC ELECTRO RELAY	14 - PRESSURE SWITCH	18 - REVERSE ACTING THERMOSTAT	22 - FIRE PROTECTION	26 - DIFFERENTIAL PRESSURE SWITCH	30 - PHASE DETECTOR					
✓ - PROVIDE	3 - HAND-OFF-AUTO	7 - DOUBLE VOLTAGE RELAY	11 - CONTROL VALVE	15 - FLOW SWITCH	19 - INTEGRAL CONTROL PANEL	23 - HIGH LIMIT	27 - CONTROL INPUT	31 - VARIABLE SPEED CONTROLLER					
	4 - PILOT LIGHT	8 - THERMISTOR	12 - MOTORIZED DAMPER	16 - SAIL SWITCH	20 - FIRE ALARM SHUTDOWN	24 - AQUASTAT	28 - CONTACTOR	32 - FIRE ALARM START					
								33 - FIRE ALARM OUTPUT CONTACT					

1 MECHANICAL EQUIPMENT LIST
E104 N.T.S.



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LIGHTING FIXTURE SCHEDULE			
TAG	TYPE A	TYPE E	
GENERAL DATA	FIXTURE	LED	
	MANUFACTURER	METALUX	
	CATALOG NO.	4VT2-LD4-6-DR100-UNVV L835-CD1-WL-SSL-U	
LAMP DATA	SHEILDING	ACRYLIC	
	NO. OF LAMPS PER FIXTURE	1	EXISTING
	LAMP WATTAGE	58	FIXTURE(S) TO
MOUNTING DATA	LAMP DESIGNATION	LED	BE REMOVED,
	LOCATION	CEILING	REMAIN
	METHOD	CHAIN HUNG	OR BE
ELECTRICAL CHARACTERISTIC	MOUNTING HEIGHT	SEE ARCH.	REPLACED.
	CEILING OR WALL FINISH	SEE ARCH.	SEE PLANS
	FIXTURE VOLTAGE	120	
REMARKS	BALLAST TYPE	LED DRIVER	
	TOTAL FIXTURE WATTAGE	58	
REMARKS		C/W CHAIN HANGING SET, STAINLESS STEEL MOUNTING BRACKET.	

2 LIGHT FIXTURE SCHEDULE
E104 N.T.S.

0	ISSUED FOR TENDER	NOV 30 2018
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project HPDR B DIVISION
 100 E White Hills Rd, St. John's, NL, A1A 3T5

drawing **SCHEDULE AND SCHEMATICS** dessin

designed J.D/D.L conçu
 date 10/17/18
 drawn J.D dessiné
 date 10/17/18
 approved D.L approuvé
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E104

