

O'NEILL CVI WASHROOM & INTERIOR RENOVATIONS

301 SIMCOE ST. N., OSHAWA, ON, L1G 4T2

LIST OF DRAWINGS

ARCHITECTURAL

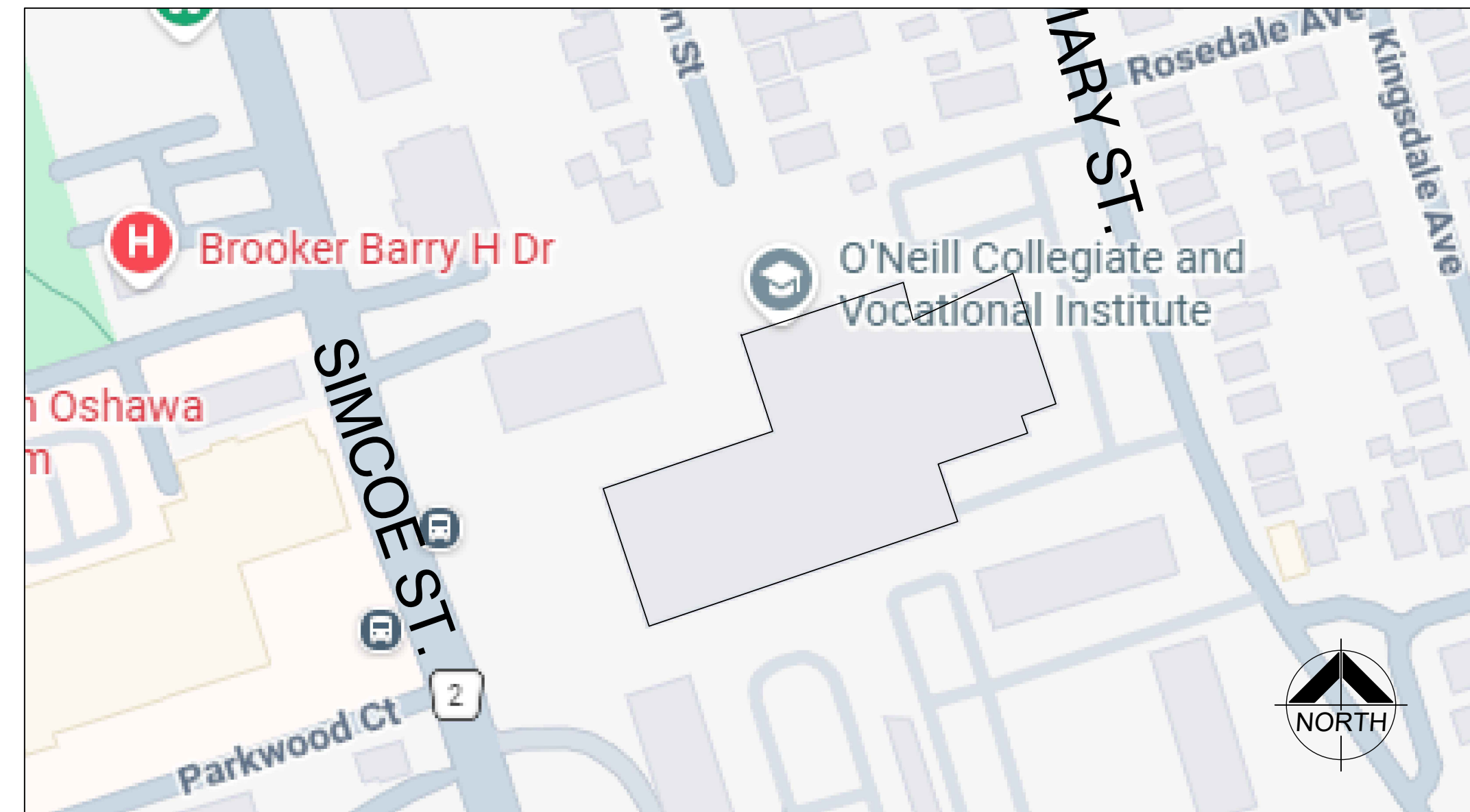
- A000 OBC MATRIX, LOCATION PLAN & DRAWING LIST
- A201 DEMOLITION PLANS & DEMOLITION REFLECTED CEILING PLAN
- A202 FLOOR PLANS & REFLECTIVE CEILING PLANS
- A701 INTERIOR ELEVATIONS & SECTIONS
- A801 SECTIONS, DETAILS & MILLWORK
- A901 DOOR & INTERIOR FINISH SCHEDULES

MECHANICAL

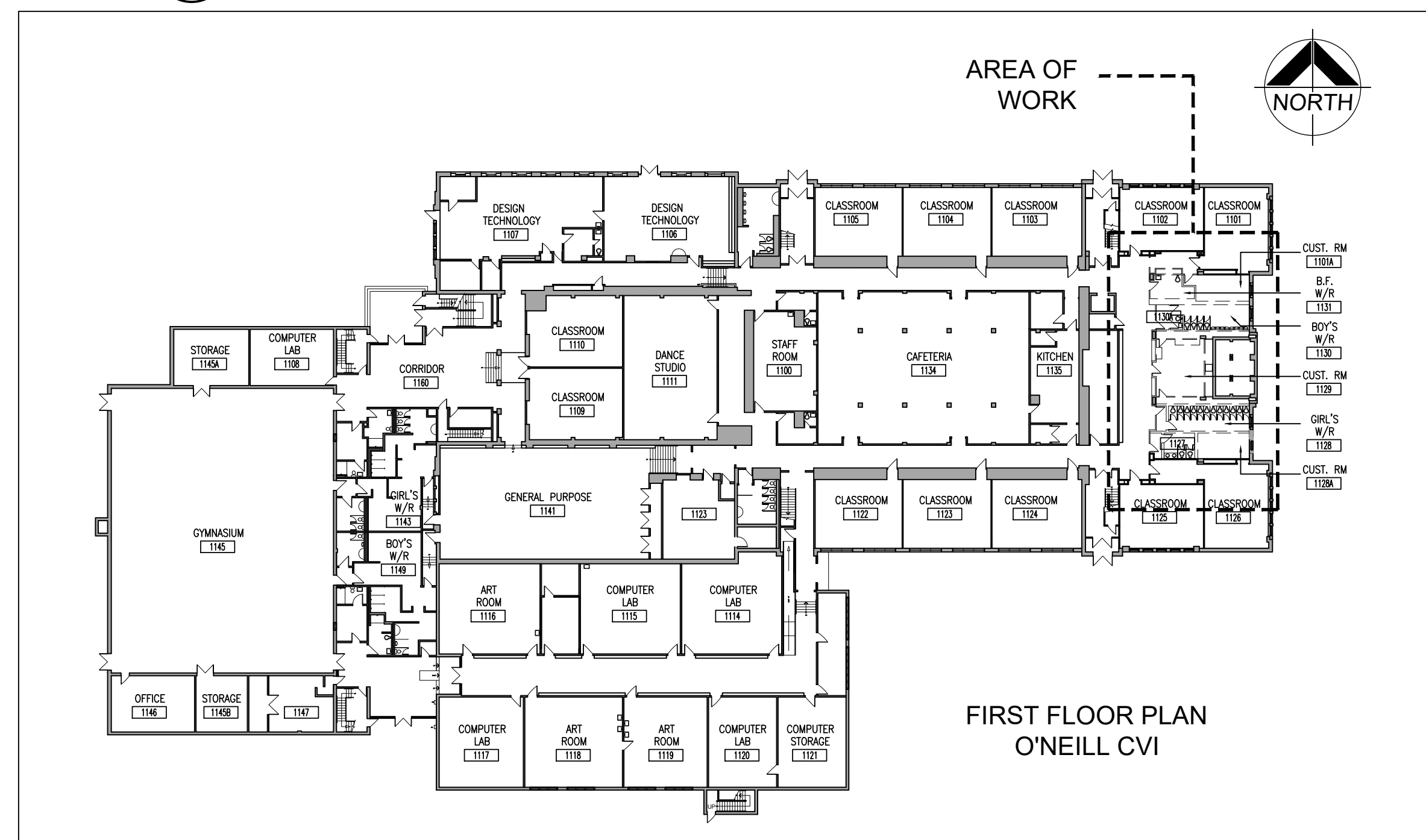
- M-100 MECHANICAL LEGEND, SPECIFICATIONS, SCHEDULES & DRAWING LIST
- M-101 SPECIFICATIONS, PLUMBING FIXTURES & DETAILS
- M-200 GROUND FLOOR - PD (DEMO/NEW)
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ELECTRICAL

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- E-200 FIRST FLOOR WASHROOMS & CUSTODIAN ROOM DEMO AND NEW WORK
- E-300 FIRST FLOOR WASHROOMS & CUSTODIAN ROOM DEMO AND NEW WORK POWER
- E-300 ELECTRICAL DETAILS



2
A000 LOCATION PLAN
N.T.S.



1
A000 KEY PLAN - FIRST FLOOR
1:500

NAME OF CONSULTANT : BARRY BRYAN ASSOCIATES
CERTIFICATE OF PRACTICE NUMBER : 5192
250 WATER STREET, SUITE 201
WHITBY, ONTARIO, CANADA. L1N 0G5
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FAX : (905) - 666 - 5256

NAME OF PROJECT :
O'NEILL CVI WASHROOM & INTERIOR RENOVATIONS

LOCATION OF PROJECT :
301 SIMCOE ST. N., OSHAWA, ON, L1G 4T2 (198 m²)
DATE :
April 2026

Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building		OBC Reference
11.00 Building Code Version:	O_Reg_163/24 Last Amendment: O_Reg_447/24	
11.01 Project Type:	<input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation <input type="checkbox"/> Change of use	[A] 1.3.3.3B
11.02 Major Occupancy Classification:	Description: Washroom & Interior Renovation Occupancy: A2 Use: Secondary School	3.1.2.1.(1), 2.1.4.1.(1), 10.1.1.2, and 11.2.1.
11.03 Superimposed Major Occupancies:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description: -	11.2, 3.2.2.5 to 3.2.2.8 and 2.2.1
11.04 Building Area (m ²):	Description: Ground Floor Existing: 6491m ² New: no change Total: 6491m ²	[A] 1.4.1.2., 11.2 and 11.3
11.05 Building Height:	3 Storeys above grade 10+/- (m) Above grade 1 Storeys below grade	[A] 1.4.1.2, 3.2.1.1, 2.2.2.2 and 11.3
11.06 Number of streets/ fire fighter access:	2 street(s)	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: 6 Hazard Index: 6 Importance Category: <input checked="" type="checkbox"/> Low <input type="checkbox"/> Normal <input checked="" type="checkbox"/> High <input type="checkbox"/> Post-disaster	10.1.1.2, 11.2.1.1 T11.2.1.1A, T11.2.1.1B to N, 4.1.2.1(3), 2.3.1 & 5.2.2.1.(2)
11.09 Renovation Type:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1 & 11.3.3.2
11.10 Occupant Load:	Floor Level/ Area: Full Building Occupancy Type: A2 Based On: SCHOOL PROJECTION Occup. Load (persons): 505	3.1.17, 2.1.2.2 and 11.4.2.2.
11.11a Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area: Ground Floor 505 overall, Second Floor, Third Floor OBC Reference: 3.7.4.3(14) WC's Required: 9M/10F WC's Provided: 11M/11F Existing: 10M/11F, Existing 9M/9F	3.7.4, 11.3.4, 11.3.5, 11.4.2.4 & 11.4.2.5.
11.11b Plumbing Fixture Requirements: cont.	Floor level/ Area (Repeated): Ground Floor, Second Floor, Third Floor B.F. WC's Required: 0, 1, 1 B.F. WC's Provided: 2 Existing, 1 Existing, 1 Existing Universal Washrooms Required: 1, 0, 0 Universal Washrooms Provided: 1 NEW, NO CHANGE, NO CHANGE	Tables 3.8.2.3.A and 3.8.2.3.B
11.12 Barrier-free Design:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explanation: Universal Washroom	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 - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings 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"/> Yes <input checked="" type="checkbox"/> No Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings 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, 11.4.2.7
11.15 Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1.
11.16 Alternative Solutions:	Not Applicable	[A] 1.2.1.1, and [C]2.1
11.17 Notes:	Boy's and Girl's washrooms being removed to become gender neutral washrooms. Relocation to custodial storage and custodial office.	

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NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 30% CLIENT REVIEW	MAR. 05 2026	BBA
2	ISSUED FOR 50% CLIENT REVIEW	MAR. 13 2026	BBA
3	ISSUED FOR 75% CLIENT REVIEW	APRIL 8 2026	BBA
4	ISSUED FOR PERMIT & TENDER	APRIL 24, 2026	BBA



PROJECT: O'NEIL CVI WASHROOM RENOVATIONS & INTERIOR RENOVATIONS

301 SIMCOE STREET NORTH
OSHAWA, ON, L1G 4T2
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

OBC MATRIX, LOCATION PLAN & DRAWING LIST

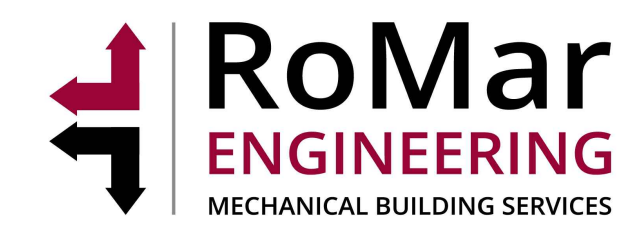
DESIGN BY: BBA
DRAWN BY: DG
CHECKED BY: JM
DATE: 26-02-11
SCALE: AS NOTED
PROJECT NO: 25267
DRAWING NO: A000



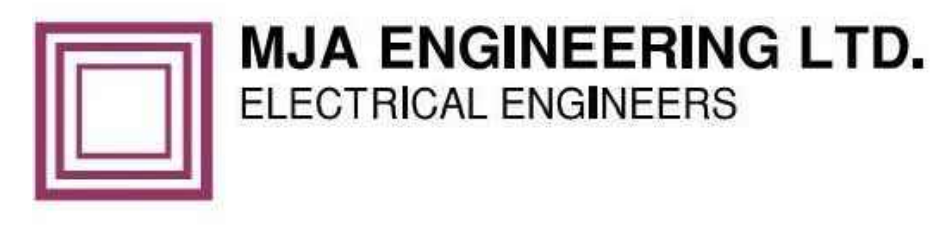
ARCHITECTURAL/STRUCTURAL:

MECHANICAL:

ELECTRICAL:



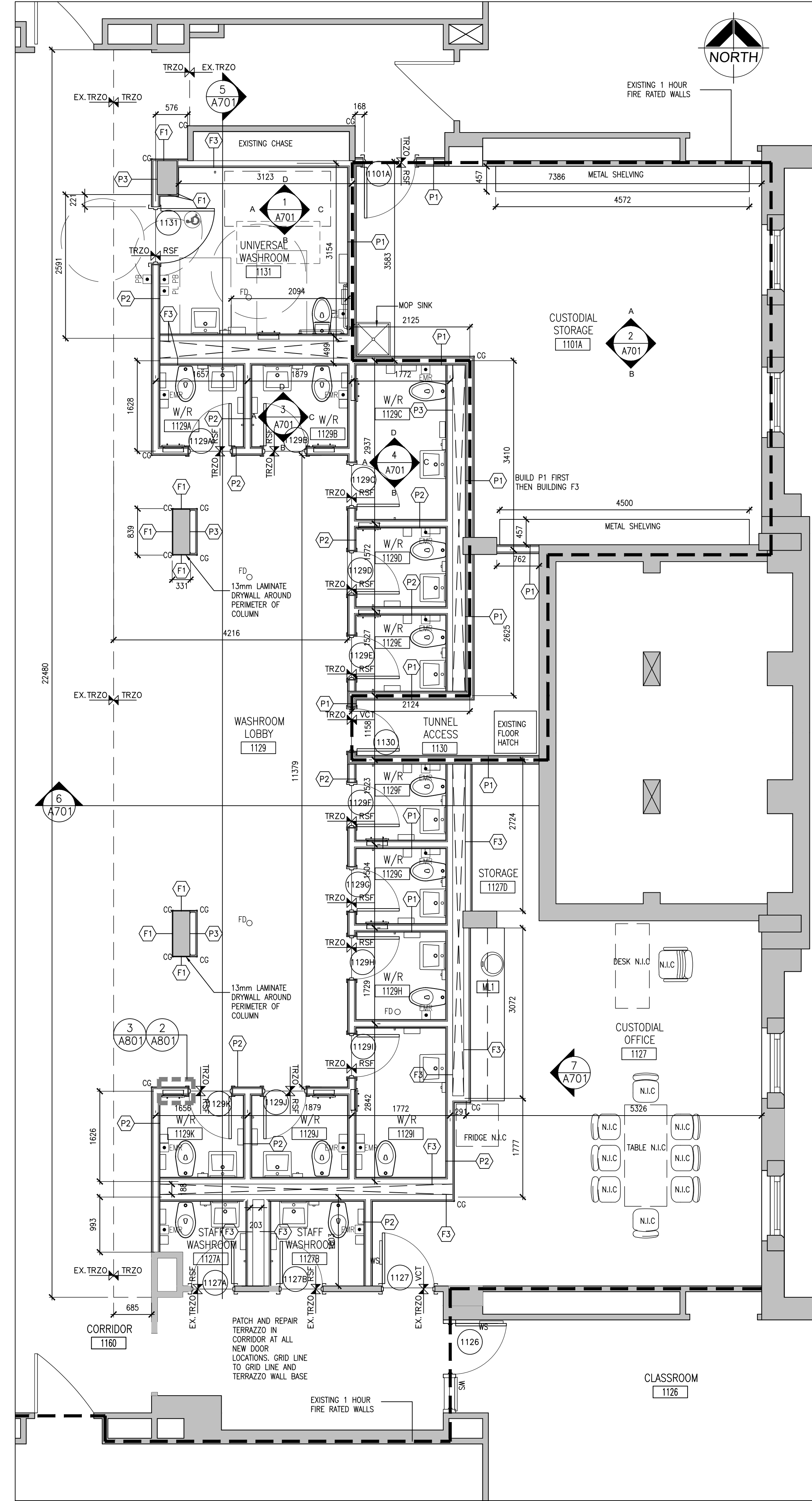
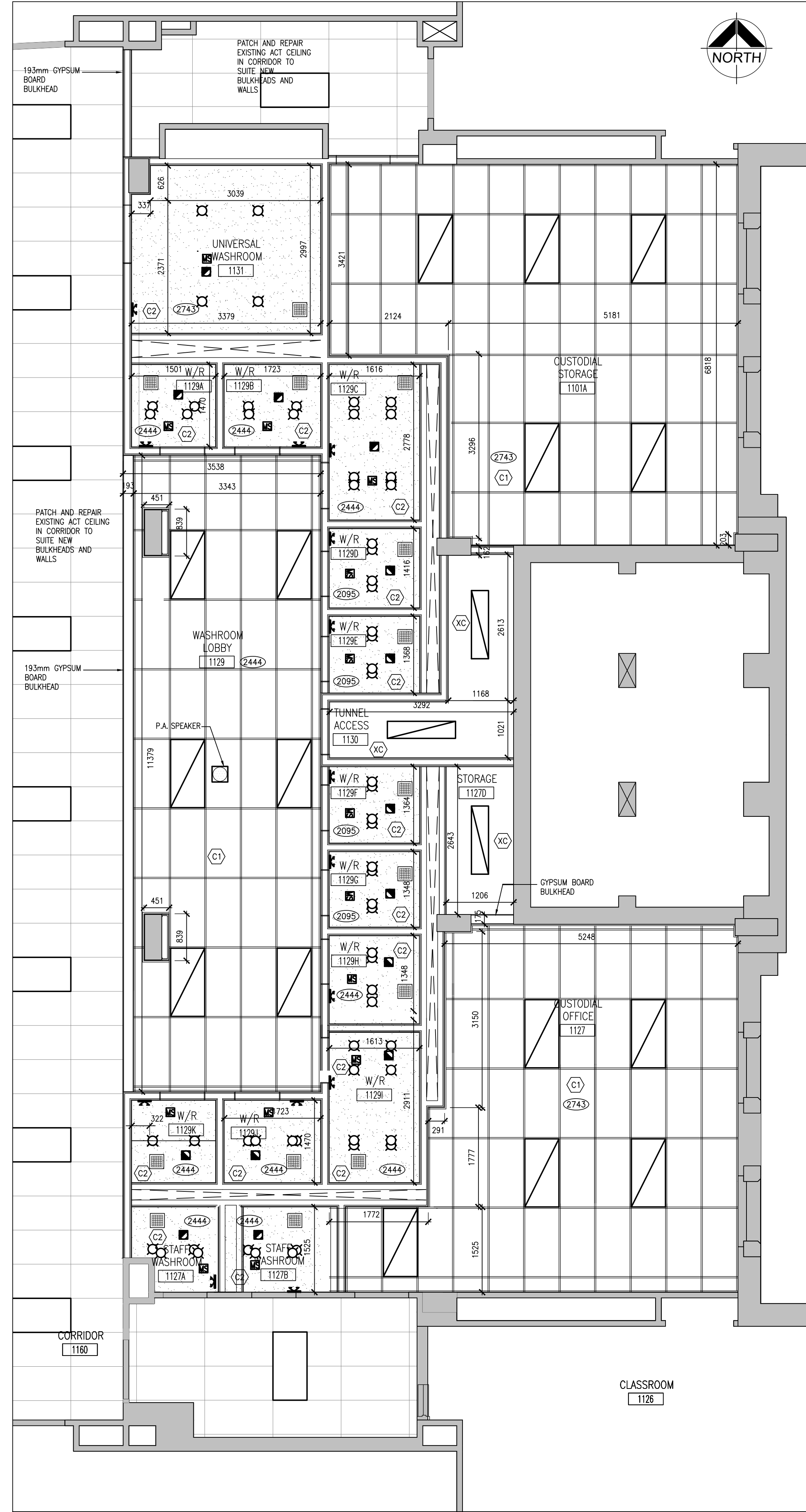
ROMAR ENGINEERING INC.
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(Toronto) (905) - 427 - 4495
FAX : (905) - 666 - 5256

GENERAL NOTES	
1.	ALL EXPOSED METAL IN INTERIOR TO BE PAINT FINISH.
2.	UNLESS OTHERWISE INDICATED, ALL WALLS SHALL HAVE PAINT FINISH.
3.	PAINT GYPSUM BOARD WALLS AND BULKHEADS.
4.	ALL EXPOSED DUCTWORK AND PIPING SHALL RECEIVE PAINT FINISH.
5.	REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
6.	ALL NEW AND EXISTING METAL DOORS AND FRAMES TO BE PAINTED ON BOTH SIDES OF DOOR OPENING.
GENERAL REFLECTED CEILING PLAN NOTES	
1.	REFLECTED CEILING PLAN IS FOR GENERAL LAYOUT AND CO-ORDINATION OF CEILING COMPONENTS. REFER TO FLOOR PLANS, DETAILS AND CONSULTANTS DRAWINGS FOR SPECIFIC INFORMATION.
2.	LAY-IN ACOUSTIC TILE CENTRED IN ROOMS, TYPICAL UNLESS NOTED OTHERWISE. PAINT FINISH TO EXPOSED STEEL STRUCTURE. PAINT FINISH TO ALL EXPOSED MECHANICAL COMPONENTS.
3.	ALL FIRE SEPARATIONS TO UNDERSIDE OF DECK ABOVE C/W WITH FIRE STOP MATERIAL AS SPECIFIED.
4.	SMOKE DETECTORS, FIRE DETECTORS AND PA SPEAKERS SHALL BE LOCATED IN CENTRE OF CEILING OR CEILING TILE, OR AS INDICATED ON PLAN.
FLOOR PLAN NOTATION LEGEND	
CA	ROOM NAME & NUMBER
XXX	INTERIOR PARTITION OR FURRING TYPE
101	DOOR NUMBER
1 A403	WALL SECTION REFERENCE
D 1 A901 B	INTERIOR ELEVATION REFERENCE NUMBER
---	1 HOUR FIRE RATING
FF2 / FF1	FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE)
M1	MILLWORK NUMBER
CG	CORNER GUARD
CEILING PLAN NOTATION LEGEND	
2750	CEILING LEVEL ABOVE FINISHED FLOOR (SEE ALSO ROOM FINISH SCHEDULE)
[Symbol]	SUPPLY AIR DIFFUSER (REFER TO MECHANICAL DRAWINGS)
[Symbol]	RETURN AIR GRILLE (REFER TO MECHANICAL DRAWINGS)
[Symbol]	RECESSED LIGHT FIXTURE
[Symbol]	RECESSED POTLIGHT
[Symbol]	ACOUSTIC CEILING TILE
[Symbol]	16mm NEW SUSPENDED MOISTURE RESISTANT TYPE X GYPSUM BOARD CEILING
[Symbol]	EXPOSED EXISTING CEILING TO BE PAINTED
PARTITION AND FURRING NOTES	
1.	PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN ALL WET AREAS. WET AREAS ARE DEFINED AS WASHROOMS, KITCHEN, VESTIBULES AND CUSTODIAN ROOMS.
2.	ALL GYPSUM BOARD BULKHEADS / PARTITIONS ABOVE WALL OPENINGS OR SCREENS TO BE BRACED AS REQUIRED.
3.	PROVIDE BLOCKING / REINFORCEMENT FOR THE INSTALLATION / ATTACHMENT OF ALL MILLWORK, CABINETRY, CHANGE TABLES, WASHROOM ACCESSORIES AND/OR FIXTURES & EQUIPMENT INCLUDING FUTURE OR N.I.C. ITEMS AS REQUESTED.
PARTITION TYPES SCHEDULE	
[Symbol]	P1 16M ABUSE RESISTANT TYPE X GYPSUM BOARD 19M PLYWOOD 92M STEEL STUDS AT 400 C/C 19M PLYWOOD 16M TYPE X GYPSUM BOARD WALL TO TERMINATE AT UNDERSIDE OF 1HR FIRE RATED ASSEMBLY
[Symbol]	P2 13M ABUSE & MOISTURE RESISTANT GYPSUM BOARD 19M PLYWOOD 92M STEEL STUDS AT 400 C/C 19M PLYWOOD 13M MOISTURE RESISTANT GYPSUM BOARD WALL TO TERMINATE AT UNDERSIDE OF DECK
FURRING TYPE	
[Symbol]	F1 13M ABUSE RESISTANT GYPSUM BOARD LAMINATED TO EXISTING
[Symbol]	F3 13M MOISTURE RESISTANT GYPSUM BOARD 19M PLYWOOD 92M STEEL STUDS AT 400 C/C WALL TO TERMINATE AT UNDERSIDE OF DECK



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PROJECT:
O'NEIL CVI
WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS

301 SIMCOE STREET NORTH
OSHAWA, ON, L1G 4T2
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
FLOOR PLANS &
REFLECTIVE CEILING PLANS

DESIGN BY: BBA
DRAWN BY: DG
CHECKED BY: JM
DATE: 26-02-11
SCALE: 1:50
PROJECT NO: 25267
DRAWING NO: A202

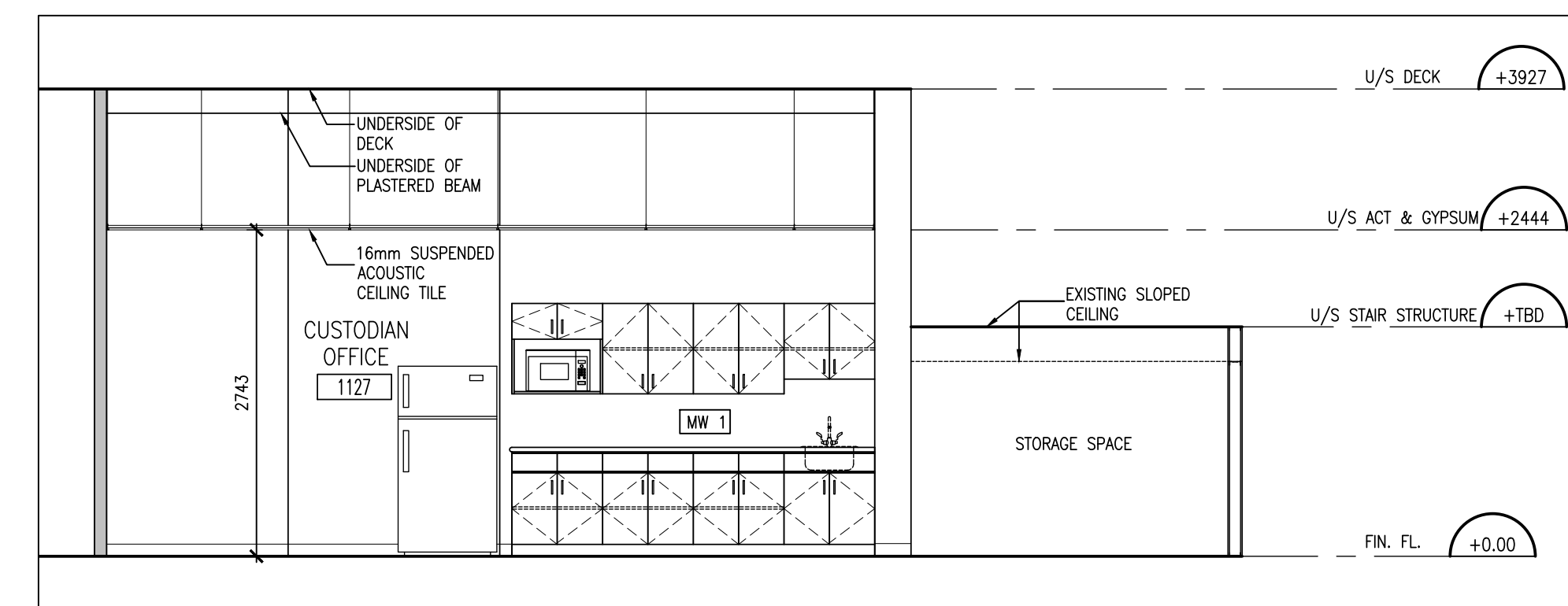


25267 A202

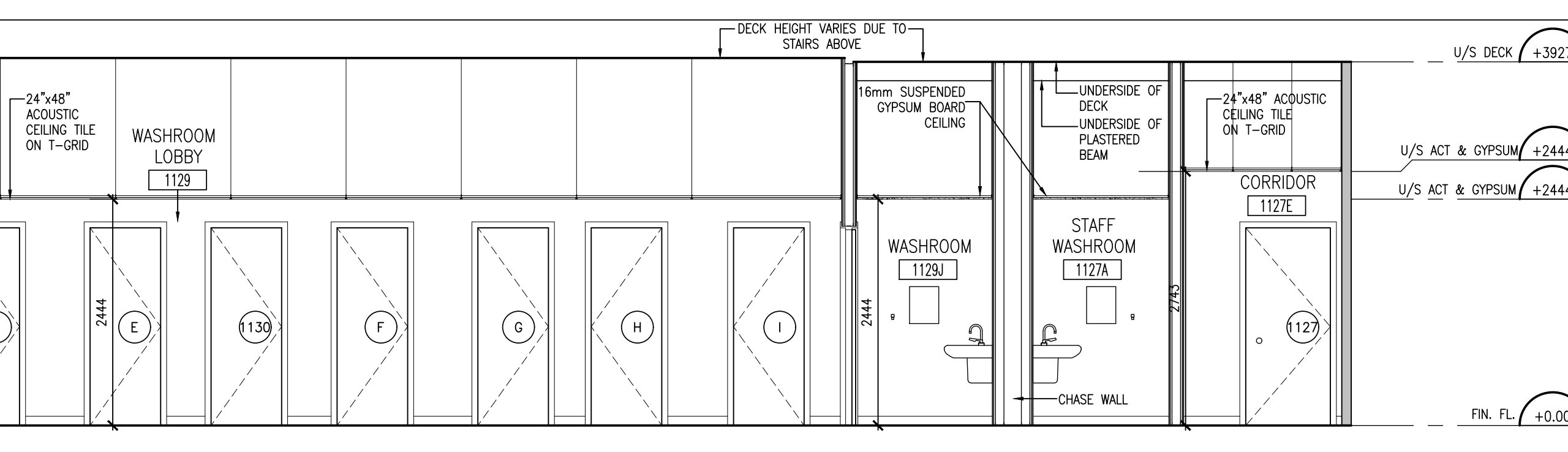
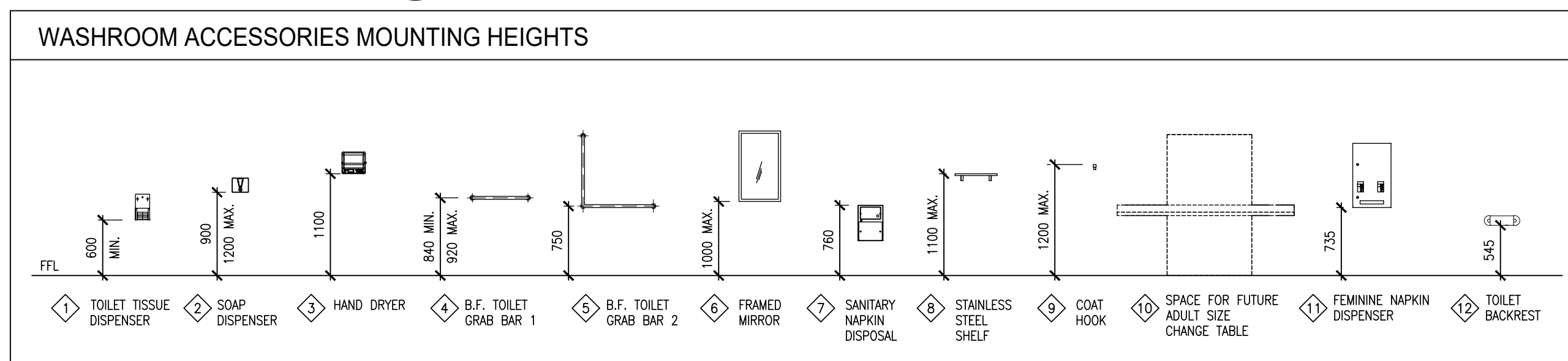
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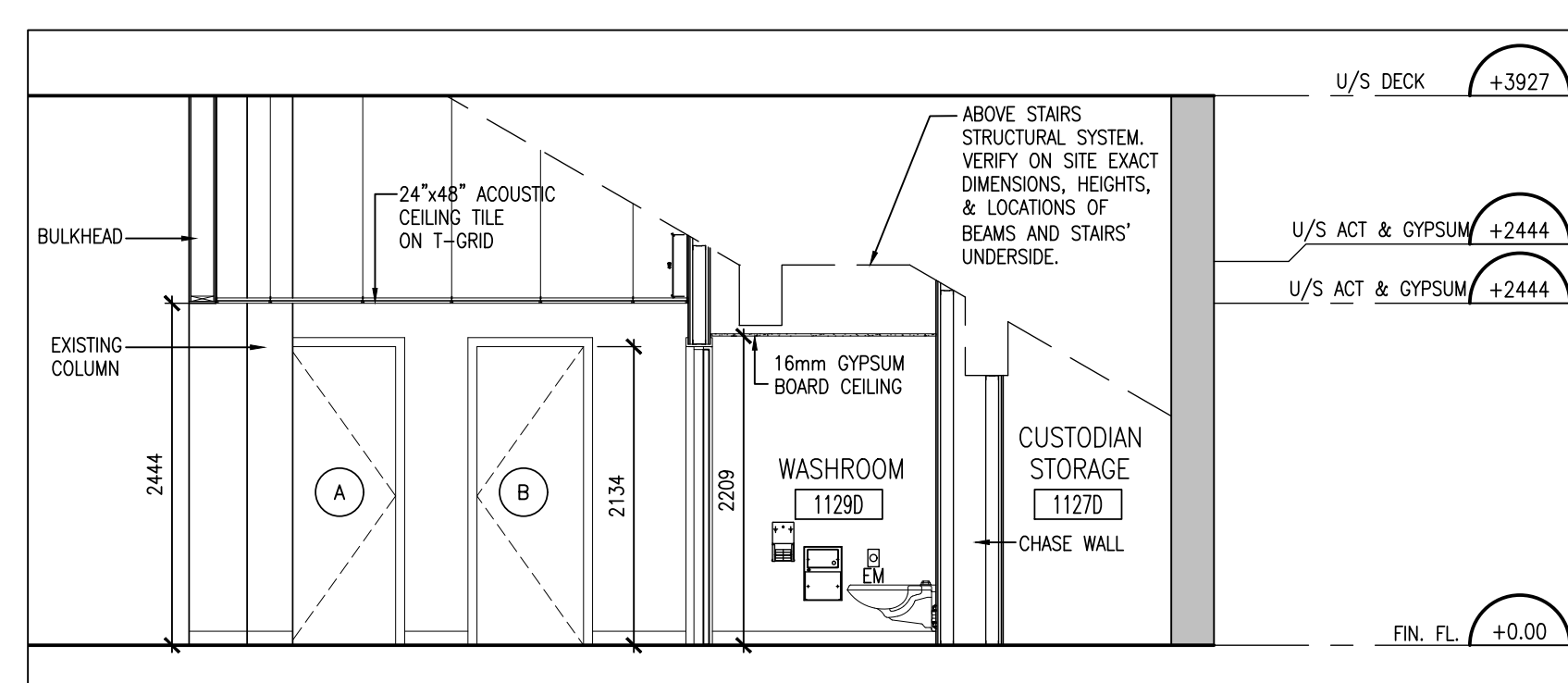
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7
A701 CUSTODIAL OFFICE INTERIOR ELEVATION
1:50



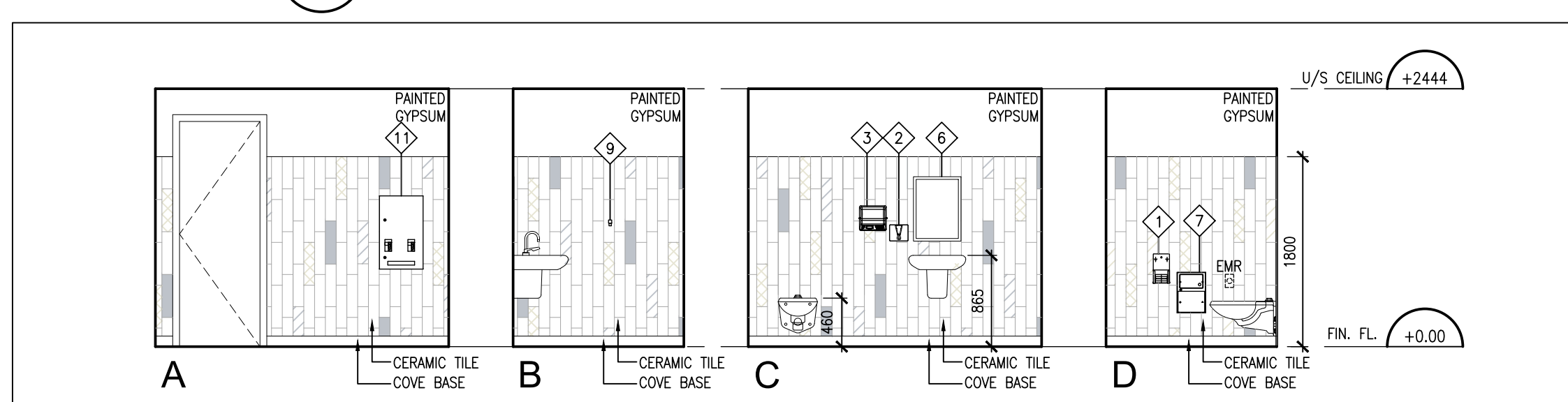
5
A701 GENDER NEUTRAL WASHROOM SECTION
1:50



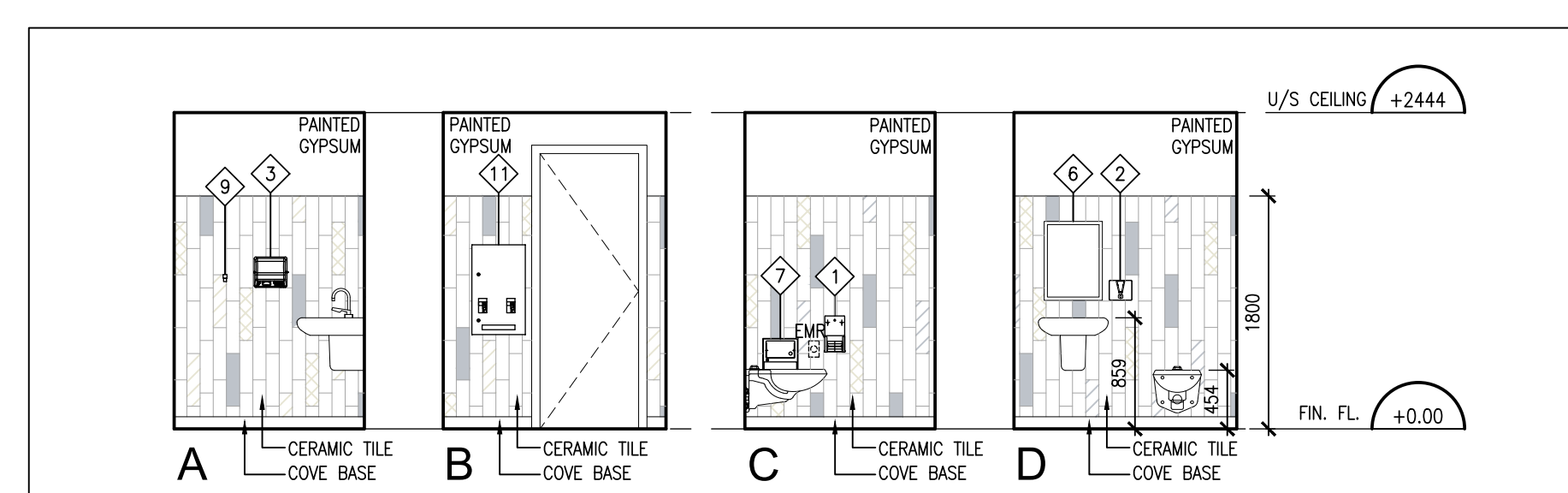
6
A701 GENDER NEUTRAL WASHROOM SECTION
1:50

102 x 406 CERAMIC WALL TILE SCHEDULE

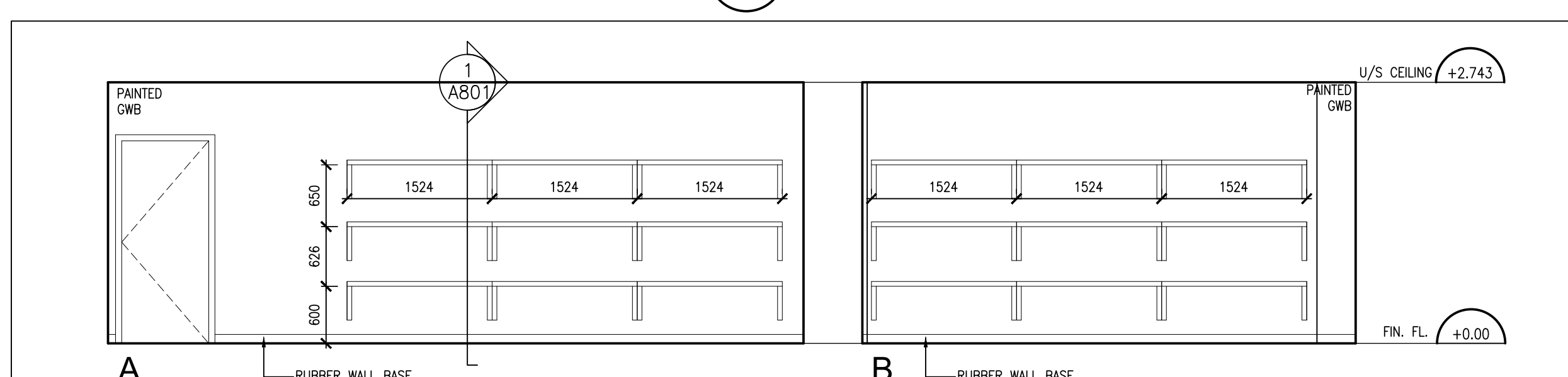
	WISDOM 0062	*REFER TO ELEVATIONS FOR CERAMIC TILE LAYOUT
	GREEN APPLE 0076	
	FRESH 0031	
	ICE WHITE 0025	



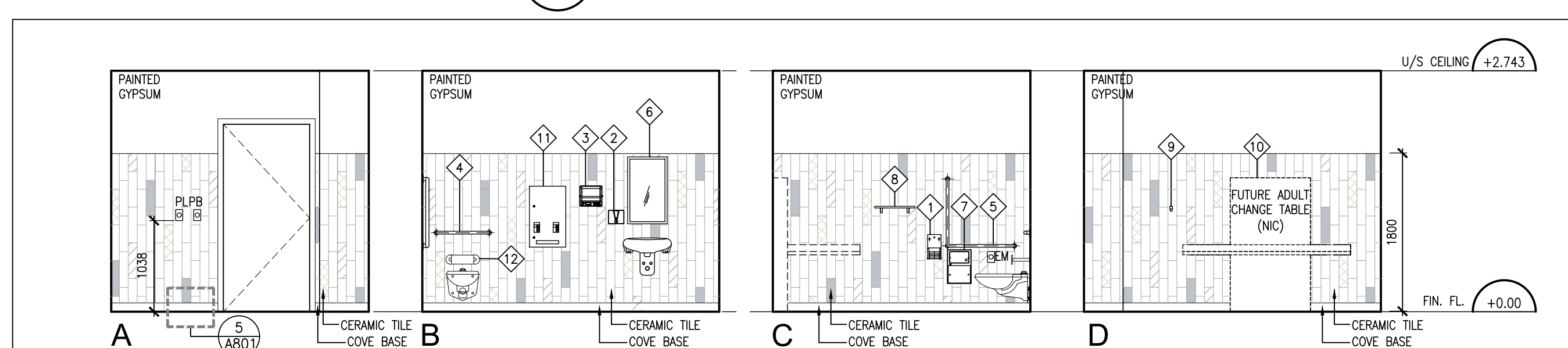
4
A701 GENDER NEUTRAL WASHROOM INTERIOR ELEVATIONS
1:50



3
A701 GENDER NEUTRAL WASHROOM INTERIOR ELEVATIONS
1:50



2
A701 CUSTODIAL STORAGE ELEVATIONS
1:50



1
A701 UNIVERSAL WASHROOM INTERIOR ELEVATIONS
1:50



PROJECT:
O'NEIL CVI
WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS

301 SIMCOE STREET NORTH
OSHAWA, ON, L1G 4T2
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

INTERIOR ELEVATIONS &
SECTIONS

DESIGN BY: BBA
DRAWN BY: DG
CHECKED BY: JM
DATE: 26-02-26
SCALE: AS NOTED
PROJECT NO: A701
DRAWING NO: 25267

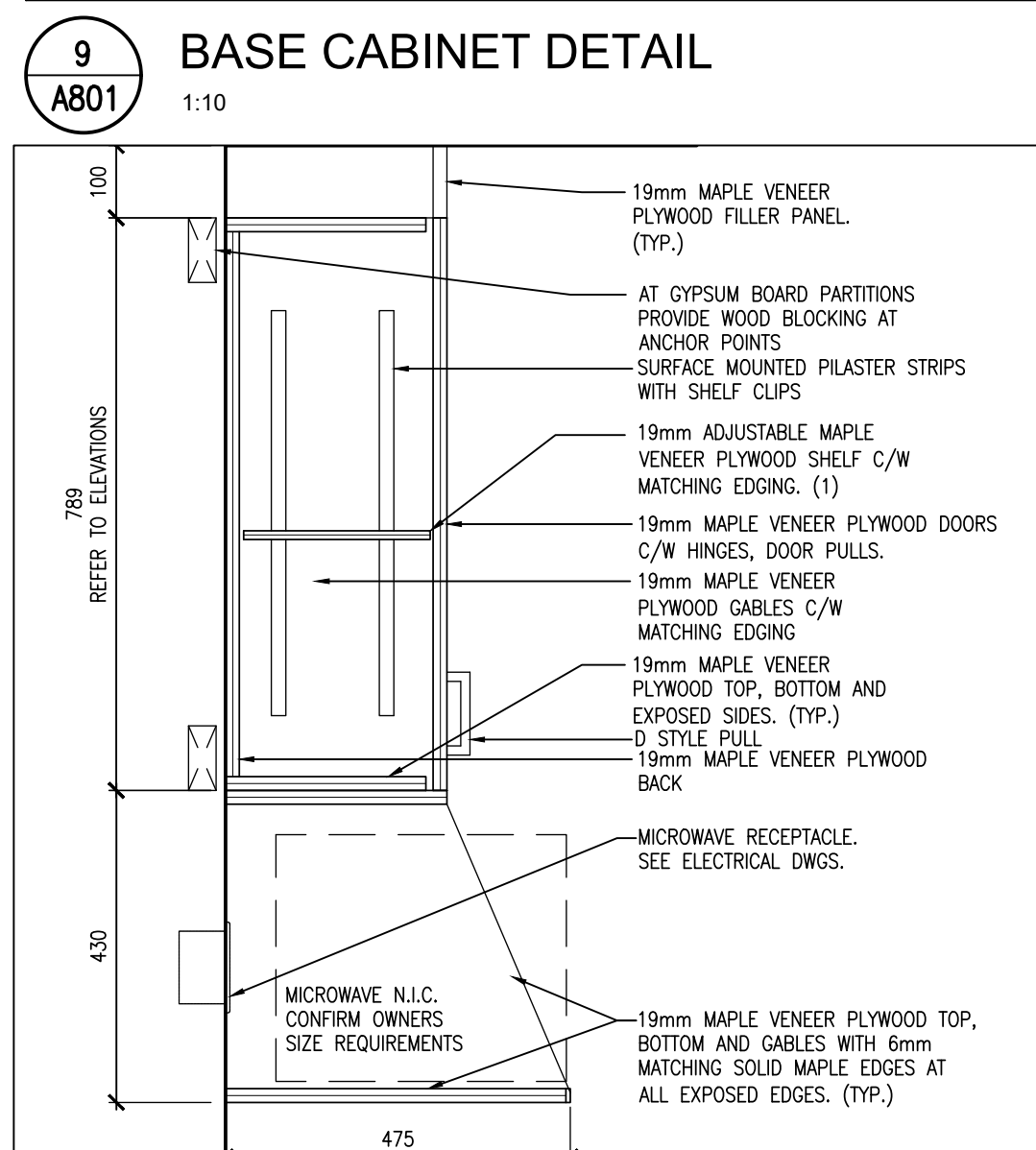
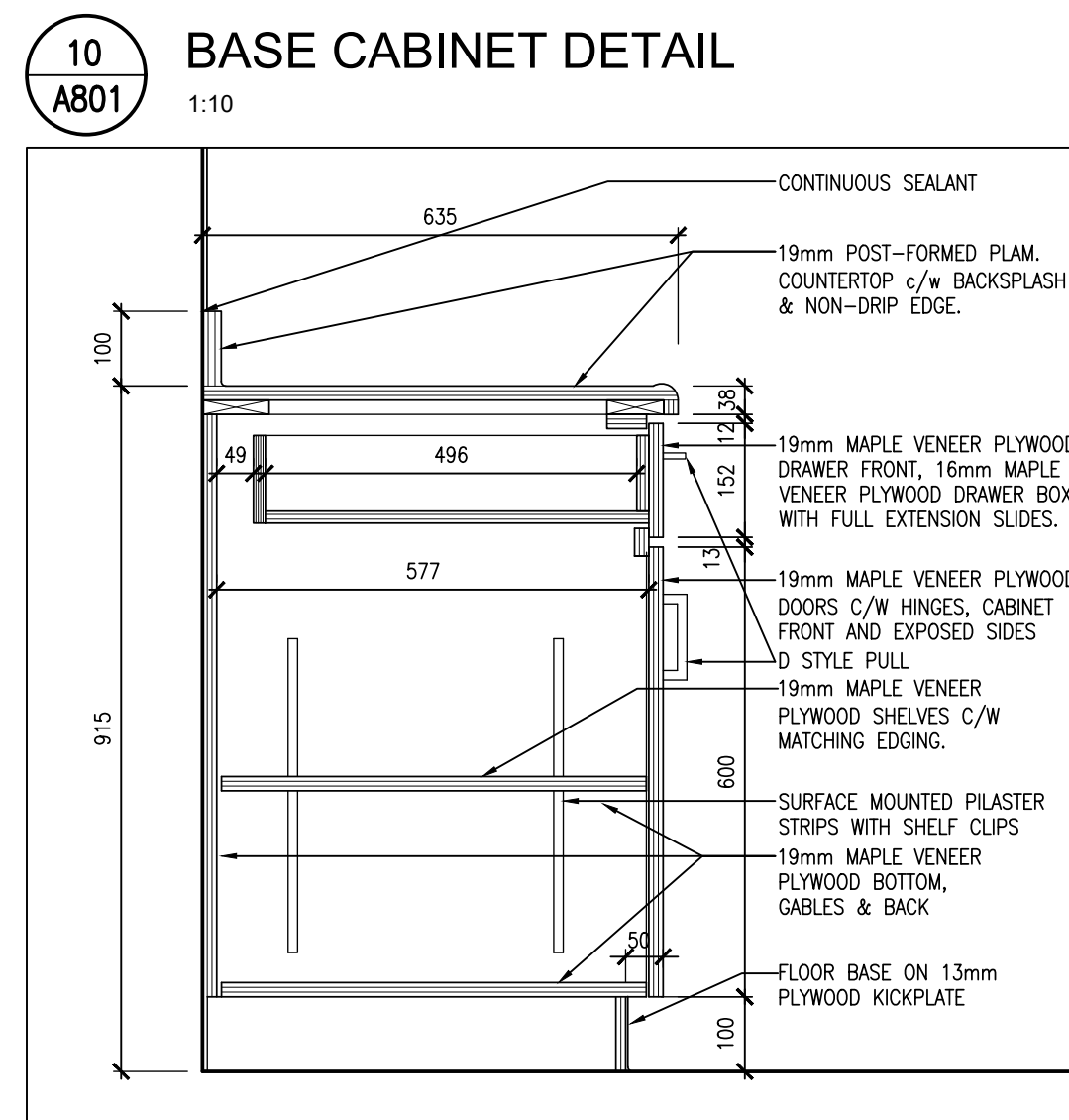
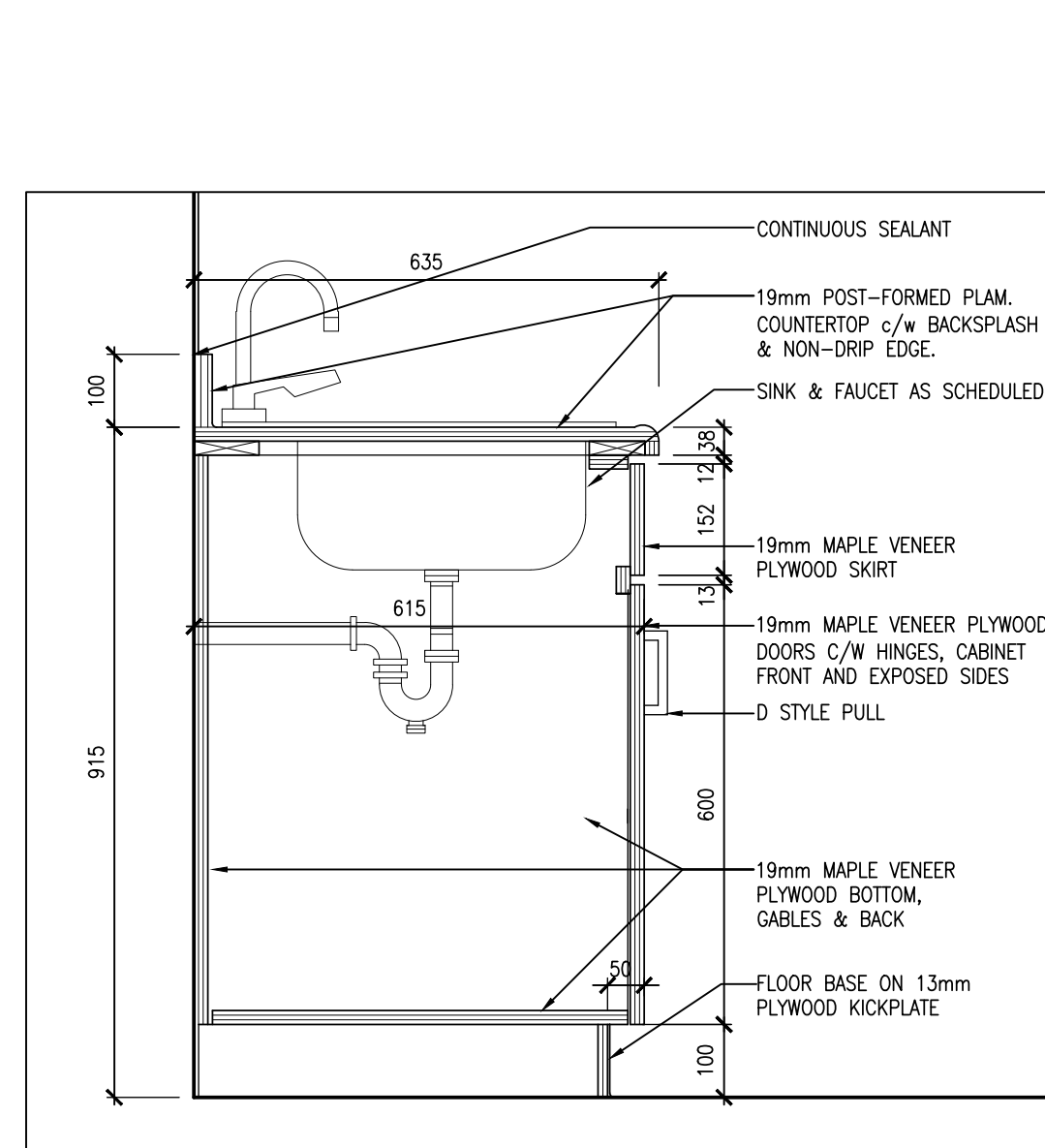


25267 **A701**

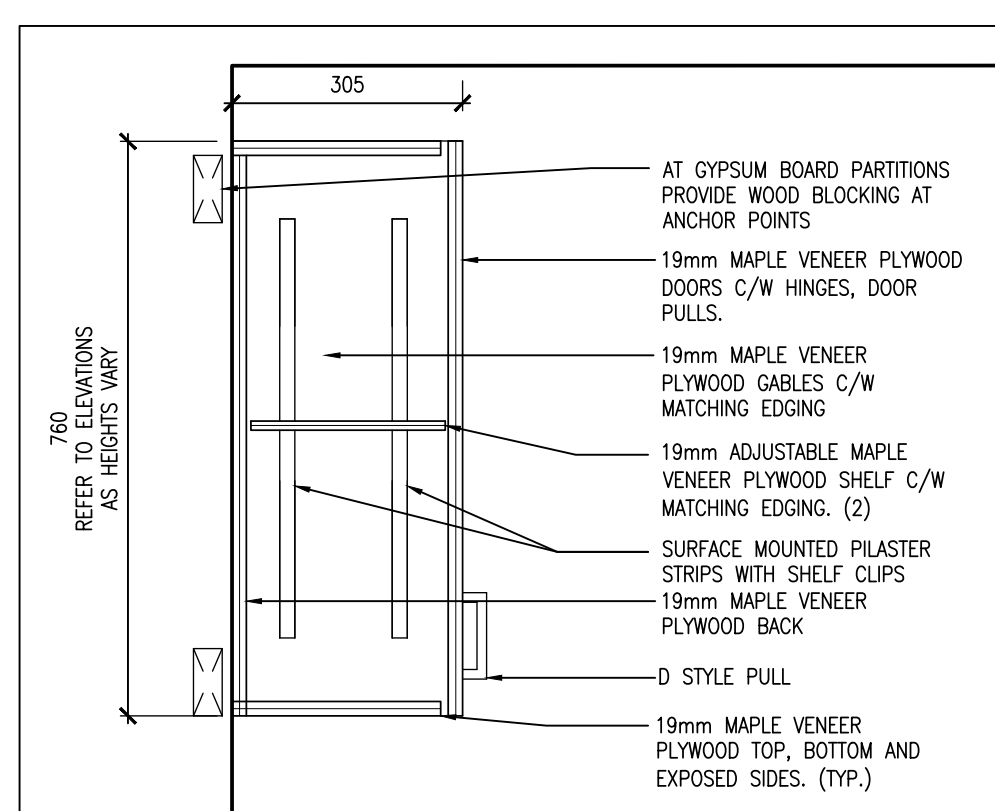
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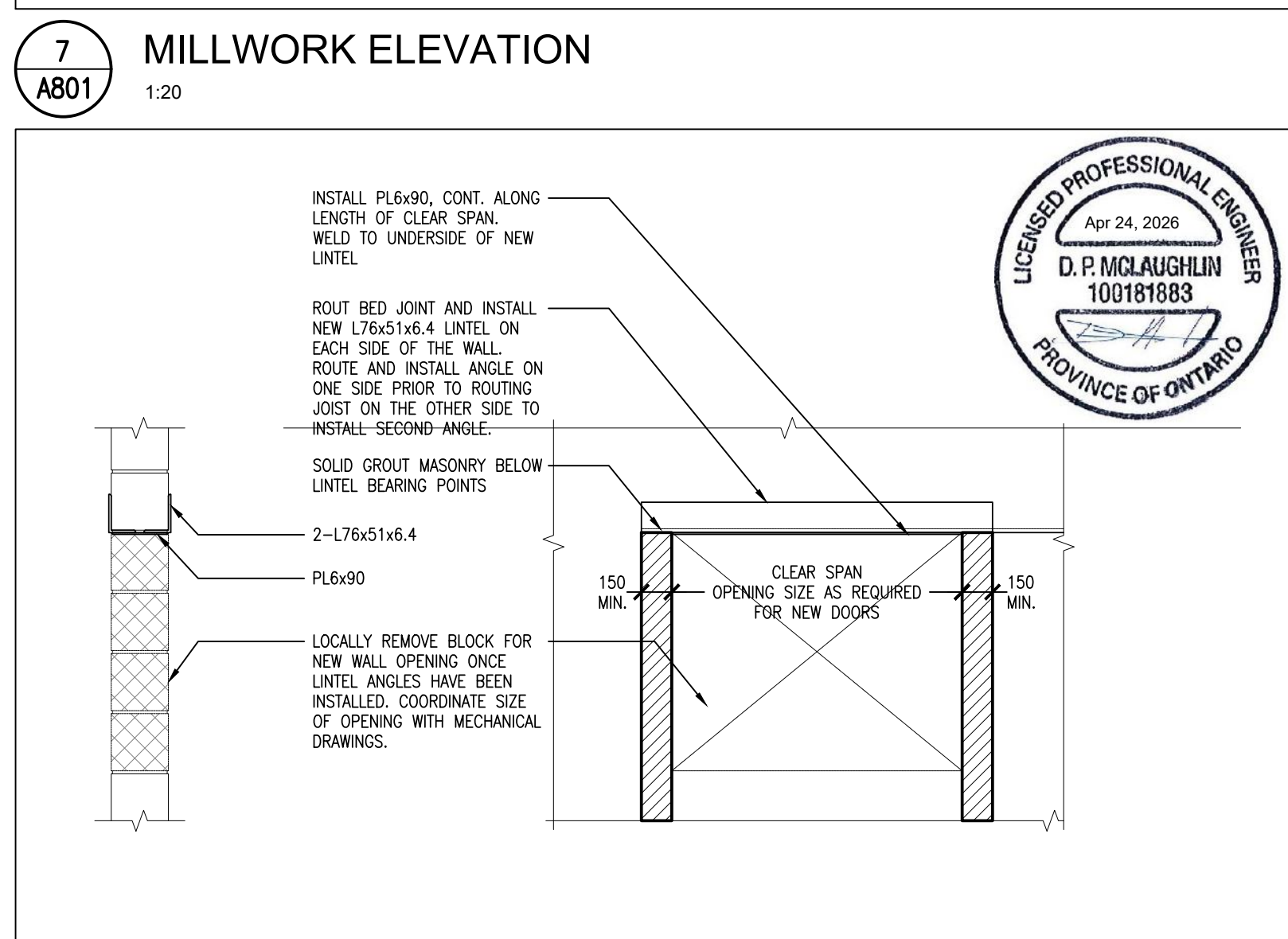
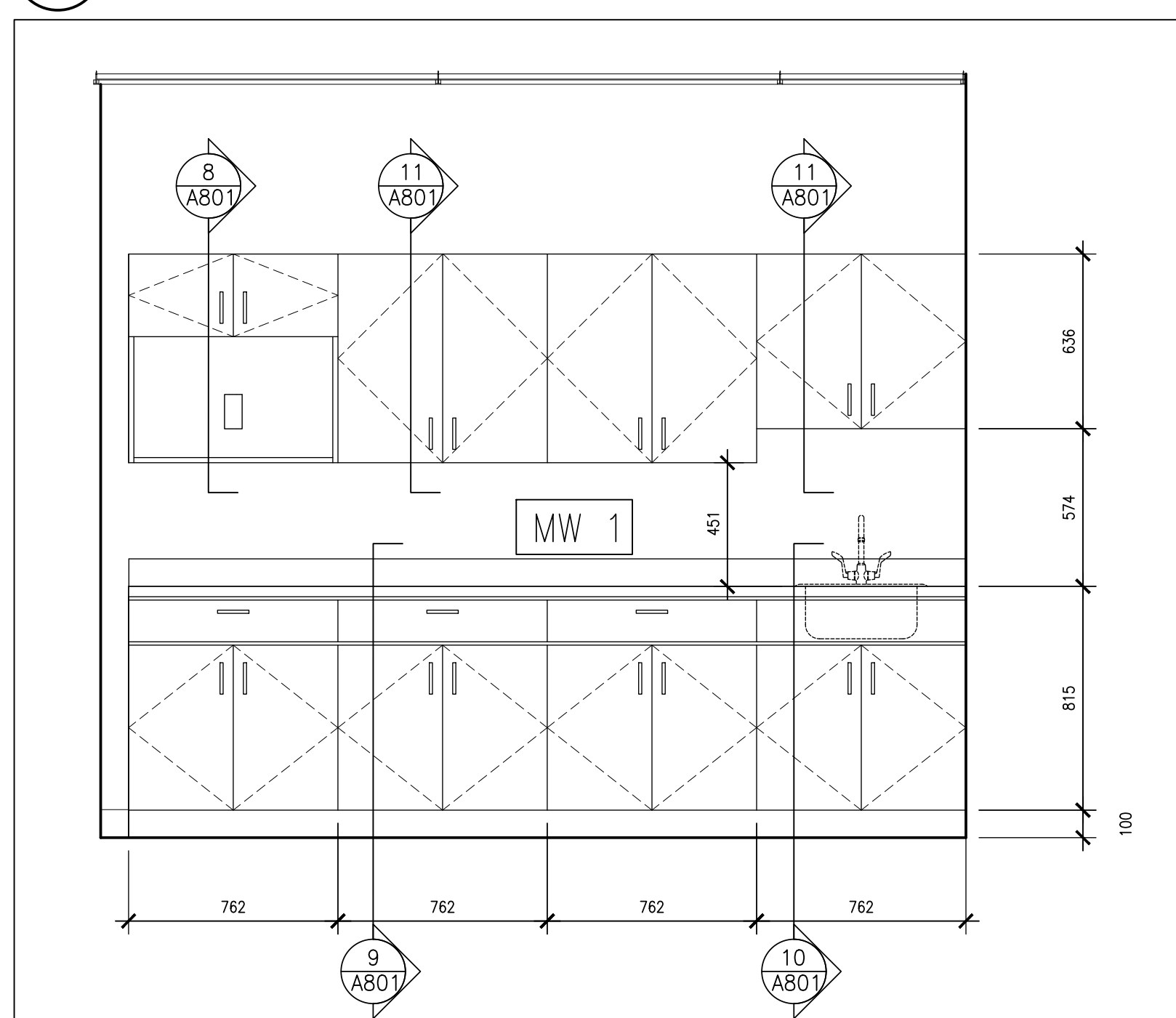
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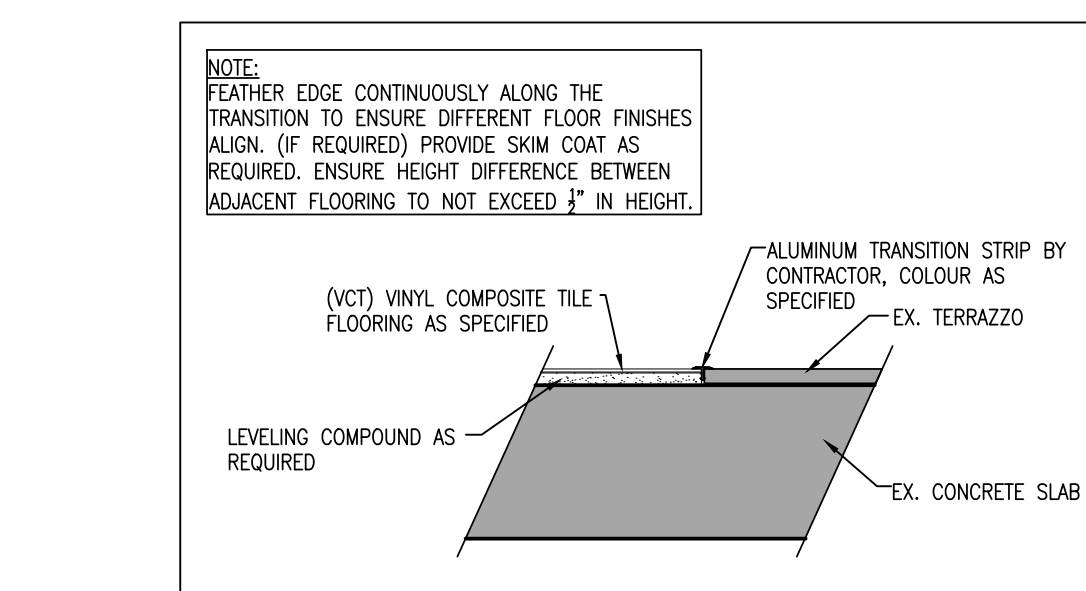
8 MICROWAVE DETAIL
A801 1:10



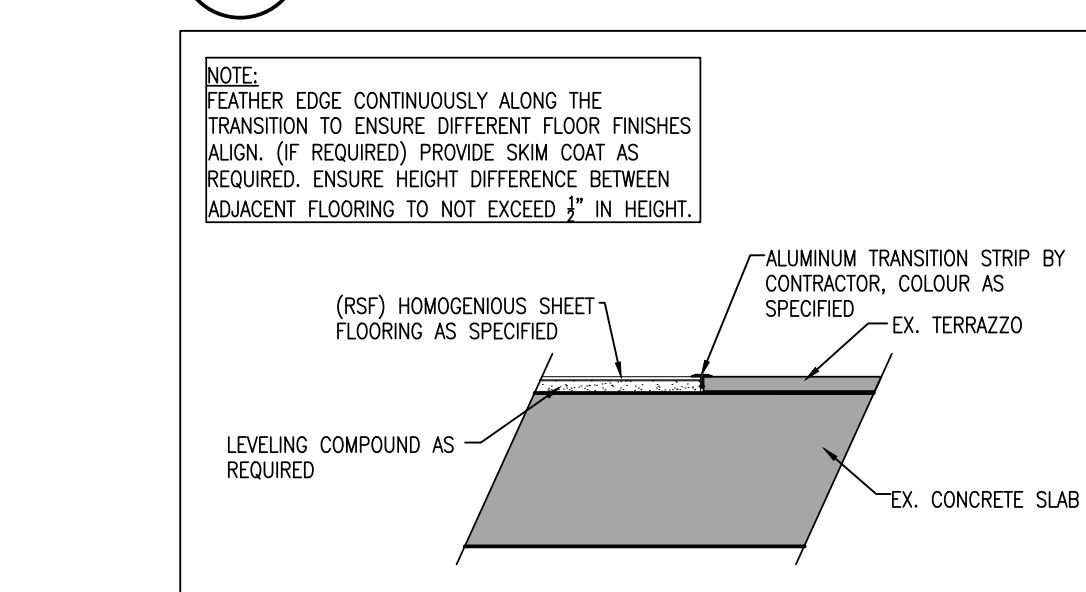
11 MICROWAVE DETAIL
A801 1:10



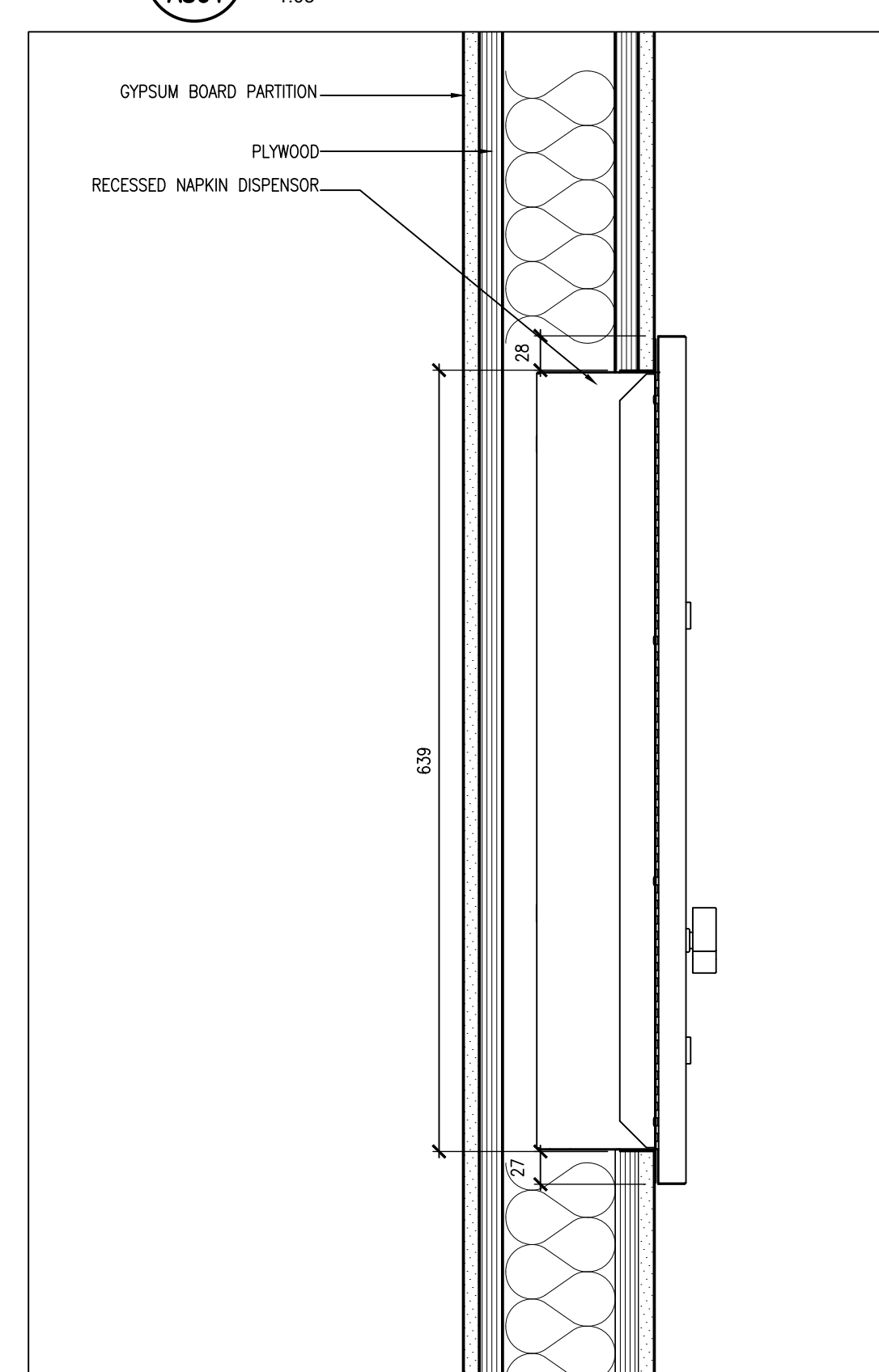
3 NON LOADBEARING LINTEL TYPICAL DETAIL
A801 1:20



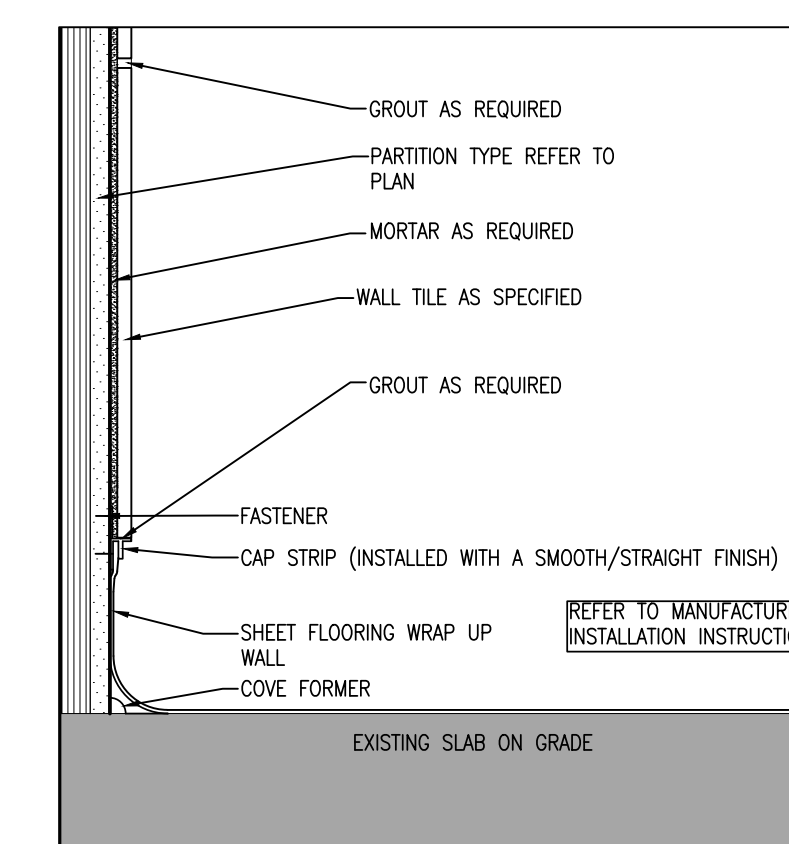
6 VCT TO TERRAZZO DETAIL
A801 1:05



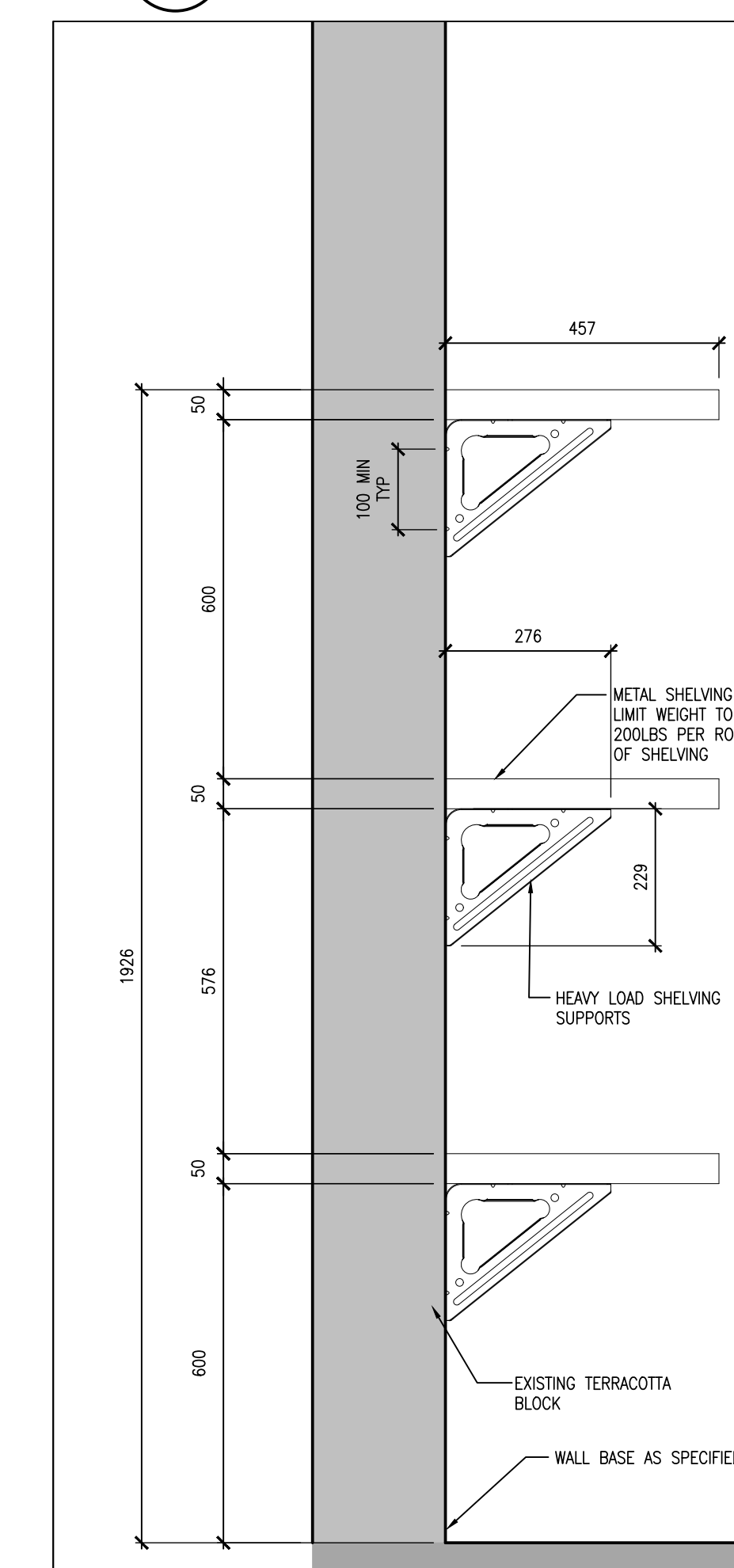
4 RSF TO TERRAZZO DETAIL
A801 1:05



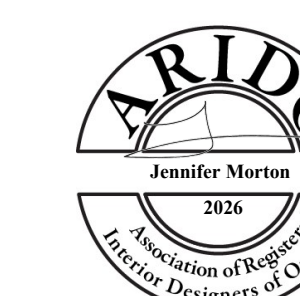
2 NAPKIN DISPENSOR DETAIL
A801 1:05



5 COVE TRANSITIONAL DETAIL
A801 1:05



1 WIRE SHELVING SECTION
A801 1:10



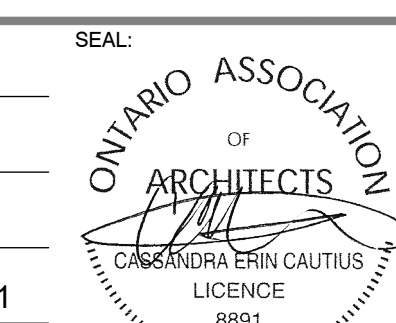
PROJECT:
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WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS

301 SIMCOE STREET NORTH
OSHAWA, ON, L1G 4T2
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

SECTIONS, DETAILS &
MILLWORK

DESIGN BY: BBA
DRAWN BY: DG
CHECKED BY: JM
DATE: 26-04-21
SCALE: AS NOTED
PROJECT NO: 25267
DRAWING NO: A801



GENERAL

PERFORM ALL MECHANICAL WORK DETAILED ON THESE DRAWINGS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL OPERATING SYSTEM TO THE SATISFACTION OF THE MECHANICAL CONSULTANT.

WHEN THERE IS APPARENT CONTRADICTION OR AMBIGUITY IN THE DOCUMENTS, OR WHERE THERE ARE APPARENT DISCREPANCIES IN OR OMISSIONS FROM THE DOCUMENTS, OR IF THERE IS ANY DOUBT AS TO THE INTENT OF THE DOCUMENTS, THE BIDDER SHALL REQUEST AND OBTAIN WRITTEN CLARIFICATION(S) FROM THE CONSULTANT PRIOR TO SUBMITTING A TENDER. CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE INTENT OF THE DOCUMENTS OR THE EXTENT OF THE WORK TO BE PERFORMED.

EQUIPMENT SUBSTITUTIONS AFTER AWARD OF CONTRACT WILL NOT BE CONSIDERED WITHOUT WRITTEN EXPLANATION AND CONSULTANT'S WRITTEN AUTHORIZATION. THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTED PRODUCT SHALL BE EQUIVALENT TO THE SPECIFIED PRODUCT. ALL SUBSTITUTE PRODUCTS SHALL BE APPROVED BY CONSULTANTS. ANY ADDITIONAL COSTS INCURRED BY ALL TRADES FOR SUBSTITUTED EQUIPMENT INSTALLATION MUST BE INCURRED BY THIS CONTRACT.

BASE BUILDING STANDARDS SHALL FORM THE BASIS FOR THIS CONSTRUCTION. COMPLY WITH SCHOOL BOARDS' REQUIREMENTS FOR SYSTEM SHUTDOWN AND CONNECTION.

CODES AND BYLAWS SHALL BE STRICTLY ADHERED TO. OBTAIN NECESSARY PERMITS, APPROVALS AND INSPECTIONS FROM THE AUTHORITIES HAVING JURISDICTION.

PERMITS AND FEES REQUIRED BY THE AUTHORITIES HAVING JURISDICTION SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR. INCLUDE ALL APPLICABLE TAXES.

EXISTING SITE CONDITIONS AFFECTING THE WORK OF THIS TRADE SHALL BE REVIEWED PRIOR TO TENDER SUBMISSION. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF FULL CONTRACT RESPONSIBILITY.

CUTTING, PATCHING AND CORE DRILLING REQUIRED BY THIS TRADE SHALL BE PAID FOR BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR. ANY FLOOR CUTTING, TRENCHING, AND EXCAVATION FOR UNDERGROUND PLUMBING SHALL BE BY THE GENERAL CONTRACTOR. BACKFILL SHALL BE BY THIS CONTRACTOR. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR BY GENERAL CONTRACTOR. COORDINATE WITH SAME.

FIRE STOP SHALL BE U/LC LISTED FOR THE REQUIRED SEPARATION AND PROVIDED AT ALL PIPE PENETRATIONS THROUGH RATED ASSEMBLIES.

PREMIUM TIME COSTS SHALL BE INCLUDED FOR WORK OUTSIDE OF NORMAL WORKING HOURS.

SHOP DRAWINGS SHALL BE SUBMITTED WITH CONTRACTORS' REVIEWED STAMP. SUBMIT ONE ELECTRONIC COPY. ALLOW ONE (1) WEEK FOR ENGINEERS REVIEW.

CONTROL WIRING AND DEVICES SHALL BE PROVIDED UNDER THIS CONTRACT. WHEN REQUIRED, CONTROL WORK SHALL BE COMPLETED BY SCHOOL BOARDS' APPROVED CONTRACTOR AND PAID FOR UNDER THIS CONTRACT.

ELECTRICAL DEVICES SHALL BE PROVIDED FOR ALL LOAD SIDES INCLUDING WIRING, STARTERS, DISCONNECT, ETC. VERIFY AND COORDINATE VOLTAGE AND PHASE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

ACCESS DOORS SHALL BE PROVIDED FOR ALL INACCESSIBLE MECHANICAL EQUIPMENT AND SERVICES REQUIRING INSPECTION OR SERVICE. FINISH SHALL SUIT DESIGNERS REQUIREMENTS. ACCESS DOORS SHALL BE RECESSED AS REQUIRED TO SUIT WALL FINISH (EG. TILE.)

ENGINEERS FINAL INSPECTION IS IMPERATIVE. PRIOR TO INSTALLATION OF ALL CEILINGS, THIS CONTRACTOR SHALL CONTACT MARGARET EDWARDS (ROMAR) AT EDWARDS@ROMARENENGINEERING.COM TO PERFORM A FINAL INSPECTION. WHEN CEILING TILES HAVE BEEN INSTALLED IT WILL BE NECESSARY FOR THE CONTRACTOR TO REMOVE PORTIONS FOR INSPECTION.

ONE YEAR WRITTEN WARRANTY SHALL BE PROVIDED FOR THE COMPLETE MECHANICAL INSTALLATION FROM DATE OF ACCEPTANCE.

CAD AS-BUILT DRAWINGS SHALL BE COMPLETED UTILIZING AUTOCAD. RECORD ACCURATELY INSTALLED WORK ON WHITE PRINTS TRANSFERRING TO AUTOCAD. SUBMIT TWO COPIES.

OPERATING AND MAINTENANCE MANUALS CONTAINING APPROVED SHOP DRAWINGS, AIR AND WATER BALANCING REPORTS, EQUIPMENT DATA SHEETS, WRITTEN WARRANTY, OPERATING INSTRUCTIONS AND MAINTENANCE PROCEDURES SHALL BE SUBMITTED TO CONSULTANT FOR REVIEW. MANUALS SHALL BE SEPARATED WITH DIVISIONS IN APPROPRIATE SECTIONS. MAKE ALL CORRECTIONS REQUESTED BY CONSULTANT AND RESUBMIT FOR REVIEW.

WHEN THERE IS APPARENT CONTRADICTION OR AMBIGUITY IN THE DOCUMENTS, OR WHERE THERE ARE APPARENT DISCREPANCIES IN OR OMISSIONS FROM THE DOCUMENTS, OR IF THERE IS ANY DOUBT AS TO THE INTENT OF THE DOCUMENTS, THE BIDDER SHALL REQUEST AND OBTAIN WRITTEN CLARIFICATION(S) FROM THE CONSULTANT PRIOR TO SUBMITTING A TENDER. CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE INTENT OF THE DOCUMENTS OR THE EXTENT OF THE WORK TO BE PERFORMED.

CHANGE NOTICE QUOTATIONS SHALL BE SUBMITTED COMPLETE WITH COST BREAKDOWN OF LABOUR AND MATERIALS. FAILURE TO PROVIDE WILL RESULT IN REJECTION. ALL MECHANICAL CHANGE NOTICES SHALL BE PRICED IN ACCORDANCE WITH "MECHANICAL CONTRACTORS ASSOCIATION" (MCA). LABOUR UNITS STRICTLY FOR LABOUR AND FOR MATERIAL. COST USE "ALL PRISER" LESS 50% DISCOUNT FOR PIPE AND FITTINGS, 35% DISCOUNT FOR INSULATION, AND 25% FOR VALVES AND OTHER MATERIALS.

TEMPORARY FILTERS 25MM (1 IN.) SHALL BE PROVIDED AT ALL BASE BUILDING RETURN AIR OPENINGS WHICH REMAIN OPERATIONAL DURING CONSTRUCTION. FILTERS TO BE REPLACED WEEKLY. REMOVE UPON CONSTRUCTION COMPLETION.

MECHANICAL DEMOLITION

PROVIDE LABOUR, MATERIALS, PRODUCTS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE THE DEMOLITION WORK SPECIFIED HEREIN.

REFER TO DRAWINGS FOR EXTENT OF DEMOLITION WORK. THE DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF SERVICES AS FAR AS THESE ARE KNOWN.

DISPOSE, OFF SITE, OF ALL DEBRIS IN ACCORDANCE WITH THE JURISDICTIONAL AUTHORITIES.

REMOVAL AND STORAGE OF SALVAGEABLE ITEMS AS DIRECTED BY THIS SPECIFICATION SECTION UND THE OWNER OF THEIR REPRESENTATIVE.

MEET THE REQUIREMENTS AND RECOMMENDATIONS OF ALL MUNICIPAL, PROVINCIAL AND FEDERAL ORDINANCES AND BYLAWS. EXECUTE THIS WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS. CAN/CSA-S350-M1980 CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES. ONTARIO BUILDING CODE. OCCUPATIONAL HEALTH AND SAFETY ACT. REGULATIONS FOR CONSTRUCTION PROJECTS.

ONTARIO FIRE CODE. REGULATIONS UNDER FIRE MARSHALS ACT.

REMOVAL FROM SITE AND DISPOSAL OF DEBRIS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTIONAL AUTHORITIES. ARRANGE AND PAY FOR ALL PERMITS, NOTICES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE DEMOLITION WORK. ALL MATERIALS WHICH HAVE NOT BEEN DESIGNATED FOR SALVAGE FROM THE DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE ALL MATERIAL AND DEBRIS FROM THE SITE AS QUICKLY AS POSSIBLE AND DISPOSE OF LEGALLY. BURNING OF DEBRIS OR SELLING OF MATERIALS ON THE SITE WILL NOT BE PERMITTED. CONFORM TO REQUIREMENTS OF MUNICIPALITY'S WORKS DEPARTMENT REGARDING DISPOSAL OF WASTE MATERIALS. MATERIALS PROHIBITED FROM MUNICIPALITY WASTE MANAGEMENT FACILITIES SHALL BE REMOVED FROM SITE AND DISPOSED OF THROUGH RECYCLING COMPANIES SPECIALIZING IN RECYCLABLE MATERIALS. AT THE END OF EACH WORK SHIFT, LEAVE WORK IN A SAFE CONDITION. PATCH FIRE RATED PARTITIONS AND FLOORS TO MAINTAIN RATINGS UPON REMOVAL OF MECHANICAL SERVICES ORIGINALLY SPANNING FIRE RATED ASSEMBLIES. DEMOLISH WORK INTO SECTIONS OF PRACTICAL SIZE FOR REMOVAL WITHOUT ALTERATION OR DAMAGE TO EXISTING BUILDING. STORE MATERIALS ONLY IN AREAS DESIGNATED BY THE OWNER AND AS PERMITTED BY THE LOCAL JURISDICTIONAL AUTHORITIES. MATERIALS AND DEBRIS SHALL NOT BE STACKED IN BUILDING TO THE EXTENT THAT OVERLOADING OF ANY PART OF THE STRUCTURE WILL OCCUR.

CONFER WITH THE OWNER CONCERNING SCHEDULE, DUST AND NOISE CONTROL PRIOR TO COMMENCING WORK IN OR ADJACENT TO EXISTING FACILITIES WHERE SUCH WORK MIGHT AFFECT EITHER THOSE FACILITIES OR THEIR OCCUPANTS. EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO OCCUPANTS, PUBLIC AND NORMAL USE OF PREMISES. PROVIDE TEMPORARY MEANS TO MAINTAIN SECURITY WHEN SECURITY HAS BEEN REDUCED BY DIVISION 15.

PROVIDE TEMPORARY DUST SCREENS, BARRIERS, WARNING SIGNS IN LOCATIONS WHERE RENOVATIONS AND ALTERNATION WORK IS ADJACENT TO AREAS WHICH WILL BE OPERATIVE DURING WORK.

PROTECT ALL MECHANICAL SYSTEMS, INDICATED TO REMAIN, FROM DAMAGE. PROVIDE AND MAINTAIN READY ACCESS TO FIREFIGHTING EQUIPMENT AT ALL TIMES. PROVIDE AND MAINTAIN PROPER AND SUITABLE FIRE EXTINGUISHERS THROUGHOUT THE DURATION OF THE WORK.

THE DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF SERVICES AS FAR AS THESE ARE KNOWN. SHOULD ANY MECHANICAL OR ELECTRICAL SERVICE LINE BE BROKEN, OR DISRUPTED BY OPERATIONS SPECIFIED UNDER THIS CONTRACT, REPAIR SERVICE LINES, AND MAKE GOOD ALL DAMAGE DUE TO THE DISRUPTION OR BREAK, AT NO EXPENSE TO THE OWNER. NOTIFY THE OWNER IMMEDIATELY WHENEVER ANY SERVICE LINE IS BROKEN OR DAMAGED.

DEMOLISH AND REMOVE ALL REDUNDANT AND OBSOLETE CONTROLS (I.E. PNEUMATIC TUBING) AND/OR MECHANICAL EQUIPMENT (I.E. EXHAUST FANS, TRANSFER DUCTS, AIR TERMINAL UNIT) WHICH ARE NOT IDENTIFIED TO REMAIN ON NEW LAYOUT PLANS.

ACCEPT LIABILITY FOR COSTS INCURRED BY THE OWNER IN REPAIRING AND CLEANING EQUIPMENT, ETC., RESULTING FROM FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS.

CLEAN UP

DURING THE PROCESS OF WORK EACH CONTRACTOR SHALL KEEP HIS WORK TIDY. THE PREMISES SHALL AT ALL TIMES BE FREE FROM RUBBISH AND SURPLUS MATERIALS, CLEAN DAILY.

PROTECTING-TRADES

DIVISION 15 IS ENTIRELY FINANCIALLY RESPONSIBILITY FOR ALL DAMAGE TO PROPERTY OR ADJACENT PROPERTY, ARISING OF THE WORK OF THIS CONTRACTOR, WHETHER CAUSED BY HIMSELF OR ANY PERSONS ENGAGED ON HIS WORK.

DIVISION 15 CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THEIR EMPLOYEES AND SUB-TRADES USE ONLY SAFE PRACTICES AND CONDITIONS, OBSERVE ALL SAFETY REGULATIONS, SECURITY REGULATIONS AND FIRE SAFETY RULES.

DUCTWORK

NEW MATERIAL AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH BASE BUILDING STANDARDS.

DUCTWORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.

FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TRIPLE LOC OR EQUAL, SPIRAL WOUND ALUMINUM. SECURE TO RIGID DUCT USING GEAR CLAMPS. AT THE INLET OF EACH VAV TERMINAL CONTROL UNIT, PROVIDE A MINIMUM OF 3 DIAMETERS OF STRAIGHT FLEX DUCT. MAXIMUM LENGTH 1200 MM [4 FT.-0 IN.]. FLEXIBLE DUCTS SERVING DIFFUSERS SHALL BE INSTALLED AS ONE CONTINUOUS PIECE AND SHALL NOT EXCEED 10'-0" LENGTHS.

FIRE SMOKE DAMPERS SHALL BE OUT OF STREAM UL LABELLED. PROVIDE FIRE DAMPERS AS REQUIRED IN NEW AND EXISTING DUCTWORK C/W ACCESS DOORS.

ACOUSTIC DUCT LINING 25MM [1 IN.] SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS. SECURE WITH MECHANICAL FASTENERS AND ADHESIVE. SEAL RAW EDGES. NOTE DUCT DIMENSIONS ARE CLEAR INSIDE.

THERMAL INSULATION WITH VAPOUR BARRIER SHALL BE PROVIDED ON ALL NEW SUPPLY AIR DUCTWORK TO MATCH BASE BUILDING STANDARDS OR REFER TO INSULATION SYSTEM.

FLEXIBLE DUCT CONNECTIONS SHALL BE DURODYNE NEOPRENE AND INSTALLED BETWEEN ALL AIR HANDLING EQUIPMENT AND SYSTEM DUCTWORK.

AIR TRANSFER OPENINGS INDICATED WITHOUT DUCT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO ADVISE AND CONFIRM PROVISION BY GENERAL TRADES.

BALANCING AND VOLUME CONTROL DAMPERS SHALL BE PROVIDED IN NEW OR EXISTING DUCTWORK TO PROVIDE A COMPLETE AND BALANCED SYSTEM. BALANCING CONTRACTOR SHALL BE A MEMBER OF AIBS OR NERC. SUBMIT BALANCING REPORT IN TRIPLICATE TO THE CONSULTANT AND THE OWNER INCLUDING TERMINAL DESIGN AND MEASURED FLOW RATES. PROVIDE EIGHT (8) ADDITIONAL HOURS OF BALANCING WORK. THIS WORK SHALL BE PERFORMED AFTER THE OCCUPANTS HAVE MOVED IN, AS MAY BE REQUIRED FOR COMFORT BALANCING.

BALANCING WORK SHALL BE COMPLETED BY SCHOOL BOARD APPROVED CONTRACTORS - QUALITY AIR DISTRIBUTION INC AT 289-892-7168 OR AIRFLOW TESTING AND BALANCING AT 613-876-9314.

FAN SHEAVES SHALL BE ADJUSTED OR REPLACED AS REQUIRED TO OBTAIN DESIGN AIR QUANTITIES. COORDINATE THIS WORK WITH SCHOOL BOARD.

PLUMBING SYSTEM

EXISTING SANITARY DRAIN LOCATIONS AND INVERT ELEVATIONS SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.

PIPING MATERIALS:

1. DOMESTIC HOT AND COLD WATER PIPING - TYPE "L" HARD COPPER WITH SOLDER JOINTS. PROVIDE TYPE "C" SOFT COPPER PIPING WITHOUT JOINTS BELOW GROUND. VITACULIC FITTINGS ARE ACCEPTABLE FOR PIPE SIZES 2.5" AND OVER.

2. DRAINAGE AND VENT PIPING (2-1/2"Ø AND SMALLER):

SANITARY PIPING, ABOVE GROUND - DWV COPPER PIPE WITH WROUGHT COPPER SOLDER FITTINGS OR IPEX XTR OR PVC DWV.

SANITARY PIPING, BELOW GROUND - TYPE L COPPER WITH 50/50 SOLDER JOINTS.

VENT PIPING, ABOVE GROUND - DWV COPPER PIPE WITH DRAINAGE FITTINGS, 50/50 SOLDER JOINTS.

VENT PIPING, BELOW GROUND - TYPE L COPPER PIPE WITH WROUGHT COPPER FITTINGS AND 50/50 SOLDER JOINTS.

3. DRAINAGE AND VENT PIPING (3"Ø AND LARGER):

SANITARY PIPING, ABOVE GROUND - CAST IRON MJ PIPE WITH MJ FITTINGS AND STAINLESS STEEL CLAMPS.

SANITARY PIPING, BELOW GROUND - U/LC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CAN/CSA B181.2 WITH SOLVENT WELD JOINT, OR

U/LC CERTIFIED PVCSDR 3/8" BOS PIPE TO CAN/CSA B182.1 COMPLETE WITH PVC BOS FITTINGS TO CAN/CSA B182.2 WITH SOLVENT WELD JOINTS.

VENT PIPING, ABOVE GROUND - CSA CLASS 4000 CAST IRON SOIL PIPE AND FITTINGS, WITH MECHANICAL JOINTS.

VENT PIPING, BELOW GROUND - CSA CLASS 4000 CAST IRON SOIL PIPE AND FITTINGS, WITH MECHANICAL JOINTS.

PROVIDE A SUPPLY SHUT OFF VALVE ON HOT, COLD, AND/OR TEMPERED WATER SUPPLY TO EACH INDIVIDUAL FIXTURE. SUPPLY SHUT OFF SHALL BE EQUAL TO MCGUIRE H165. ALL VALVES SHALL BE LINE SIZE.

BALL VALVES SHALL BE LEAD FREE WITH SOLDERED OR THREADED ENDS. BALL VALVES SHALL BE EQUAL TO KITZ #858 AND #859. ALL VALVES SHALL BE LINE SIZE.

CHECK VALVES SHALL BE LEAD FREE. CHECK VALVES 2" AND SMALLER SHALL BE EQUAL TO KITZ #822 AND #823 WITH SOLDER OR THREADED ENDS. 2 1/2" AND LARGER CHECK VALVES SHALL BE EQUAL TO KITZ #150UOAM WITH FLANGED ENDS. ALL VALVES SHALL BE LINE SIZE.

FLEXIBLE SUPPLIES ARE NOT ACCEPTABLE FOR FLUSH TANK TOILERS OR ANY EXPOSED INSTALLATION. WHERE SUPPLIES ARE INSTALLED UNDER COUNTER OR BEHIND SHROUDS FLEXIBLE SUPPLIES ARE ACCEPTABLE.

PLUMBING FIXTURES INCLUDING DOMESTIC HOT WATER HEATERS SHALL BE NEW, OF FIRST QUALITY, IN PERFECT CONDITION AND INSTALLED IN BEST WORKMANLIKE MANNER. VERIFY PLUMBING FIXTURE QUANTITIES AND LOCATIONS WITH ARCHITECT'S/DESIGNER'S DRAWINGS. REUSE OF DOMESTIC WATER HEATER IS NOT PERMITTED.

TRAP SEAL PRIMER MUST BE PROVIDED ON ALL NEW FLOOR DRAINS, FUNNEL FLOOR DRAINS AND HUB DRAINS.

EXPOSED PIPING AND FITTINGS WITHIN WASHROOMS SHALL BE CHROME PLATED. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPING PASSING THROUGH FINISHED SURFACES AND MILLWORK.

INSULATION

PIPING INSULATION

PROVIDE ALL LABOUR, MATERIALS, PRODUCTS, EQUIPMENT AND SERVICES TO SUPPLY AND INSTALL THERMAL INSULATION, VAPOUR BARRIERS AND FINISHES FOR MECHANICAL WORK AS INDICATED ON THE DRAWINGS AND SPECIFIED IN THIS SECTION OF THESE SPECIFICATIONS.

MAINTAIN AMBIENT TEMPERATURES AND CONDITIONS REQUIRED BY MANUFACTURERS OF ADHESIVES, MASTICS AND INSULATING CEMENTS.

INSULATION MATERIALS MUST BE MANUFACTURED AT FACILITIES CERTIFIED AND REGISTERED WITH AN APPROVED REGISTRAR TO CONFORM TO ISO 9000 QUALITY STANDARD.

ALL INSULATION PERTAINING TO DIVISION 15 SHALL BE CARRIED OUT BY ONE FIRM SPECIALIZING IN INSULATION WORK. DO NOT MIX SIMILAR PRODUCTS OF MULTIPLE MANUFACTURERS.

ACCEPTABLE INSULATION MANUFACTURERS ARE OWENS CORNING CANADA, JOHNS MANVILLE, MANSON INSULATION INC, KNAUF FIBER GLASS AND CERTAINTED.

PROVIDE INSULATION AND COVERS IN STRICT ACCORDANCE WITH AUTHORITIES GOVERNING COMBUSTIBILITY AND FIREPROOFING OF MATERIALS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PROVIDE NON-COMBUSTIBLE INSULATION, JACKETS AND FINISHES HAVING A FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS, MEETING CAN/ULC S-102 REQUIREMENTS.

ATTAIN A COMPLETE AND CONTINUOUS VAPOUR BARRIER OVER INSULATION APPLIED TO COLD AND DUAL TEMPERATURE PIPING, SHEET METAL AND EQUIPMENT. USE EITHER FACTORY APPLIED VAPOUR BARRIER JACKET OF FIELD APPLIED REINFORCED FOIL FLAME RESISTANT KRAFT VAPOUR BARRIER JACKET. APPLY TO PIPING AND FITTINGS, VALVES AND INLINE COMPONENTS, SHEET METAL AND FITTINGS AND EQUIPMENT. SEAL LONGITUDINAL AND CIRCUMFERENTIAL LAPS WITH CHILDERS CP82 OR BAKOR 230-39 ADHESIVE. IF VAPOUR BARRIER JACKET IS NOT LAPPED, SEAL JOINTS WITH SELF-ADHERING 4" WIDE PLAIN ALUMINUM FOIL TAPE, OR ADHERE 4" WIDE ALUMINUM FOIL TAPE WITH CHILDERS CP82 OR BAKOR 230-39 ADHESIVE. JACKETING WITH SELF-ADHESIVE LAPS AND SELF-ADHESIVE BARRIER TAPE WILL BE AN ACCEPTABLE ALTERNATIVE CLOSURE SYSTEM.

PROVIDE INSULATION MATERIALS WITH A MINIMUM THERMAL CONDUCTIVITY OF 0.24BTU.IN/(HR. SQ.FT.F) AT 100°F MEAN TEMPERATURE.

ON HOT PIPING APPLICATIONS, HOLD INSULATION IN PLACE WITH FLARE TYPE STAPLES (OUTWARD CLUNCH).

ON COLD PIPING APPLICATIONS, APPLY VAPOUR BARRIER JACKET OVER INSULATION AND SEAL LONGITUDINAL AND CIRCUMFERENTIAL LAPS WITH CHILDERS CP82 OR BAKELITE 230-39 ADHESIVE. SEAL ALL PIPE TERMINATIONS, INCLUDING FITTINGS, WALL PENETRATIONS AND PIPE SUPPORTS WITH VAPOUR BARRIER MASTIC. FOR CHILLED WATER SYSTEMS PROVIDE VAPOUR SEAL PIPE TERMINATIONS EVERY FOUR PIPE SECTIONS.

APPLY PIPE INSULATION OVER 1-1/2" THICKNESS IN TWO LAYERS WITH JOINTS STAGGERED.

INSULATE FITTINGS WITH FABRICATED MITERED OR PREFORMED SECTIONS OF SPECIFIED INSULATION.

INSULATE OVER FLANGES AND MECHANICAL COUPLINGS WITH SPECIFIED INSULATION AND THICKNESS, SIZED TO SUIT FLANGE DIAMETERS. FILL SPACES BETWEEN INSULATION AND ADJOINING PIPE INSULATION WITH SIMILAR MATERIAL.

INSULATE VALVES AND INLINE COMPONENTS WITH FLEXIBLE INSULATION DENSITY (3/4 LBS./CU.FT.) COMPRESSED NOT MORE THAN 50% OF ORIGINAL THICKNESS. BUILD UP TO SPECIFIED THICKNESS WITH APPROVED ASBESTOS FREE FINISHING CEMENT.

DO NOT INSULATE TERMINAL UNIT AUTOMATIC CONTROL VALVES INSTALLED IN HOT PIPING. DO NOT INSULATE TERMINAL UNIT AUTOMATIC CONTROL VALVES WHICH ARE INSTALLED IN COLD PIPING AND WHICH ARE LOCATED OVER CONDENSATE DRAIN PANS.

UNDER ALL HANGERS USED ON CHILLED WATER AND DOMESTIC COLD WATER, PROVIDE AN INSERT BETWEEN SUPPORT SHIELD AND PIPING FOR PIPING 1-1/2"Ø OR LARGER.

PROVIDE THE FOLLOWING PIPE INSULATION TYPE AS INDICATED IN THE PIPE INSULATION TABLE BELOW.

"TYPE P1" OWENS CORNING 850 PIPE INSULATION, JOHNS MANVILLE MICRO-LOK AP-T PLUS FIBERGLAS PIPE INSULATION, MANSON FIBERGLAS PIPE INSULATION OR KNAUF PIPE INSULATION WITH FACTORY APPLIED ALL PURPOSE VAPOUR BARRIER JACKET WHERE SCHEDULED.

DUTY	INSULATION TYPE	THICKNESS	VAPOUR BARRIER
DOMESTIC COLD WATER	P-1	1/2"	YES
DOMESTIC HOT WATER	P-1	1"	NO
LESS THAN 1-1/2"	P-1	1-1/2"	NO
BUILDING HOT WATER	P-1	1"	NO
2" AND LESS	P-1	1-1/2"	NO
2-1/2" AND LARGER	P-1	1-1/2"	NO
HORIZONTAL STORM AND SANITARY DRAINAGE	P-1	1"	YES
ALL PIPE SIZES			

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING DUCTS, PIPES & EQUIPMENT TO REMAIN		NEW FLOOR DRAIN
	DUCTS, PIPES & EQUIPMENT TO BE REMOVED		NEW ROOF DRAIN
	NEW DUCT OR PIPE		NEW ISOLATION VALVE
	NEW DUCT OR EQUIPMENT		EXISTING BALL VALVE TO REMAIN
	NEW FLEXIBLE DUCT		NEW BALL VALVE
	NEW CAP ON EXISTING DUCT OR PIPE		EXISTING CONTROL VALVE TO REMAIN
	NEW CAP ON EXISTING DUCT		NEW CONTROL VALVE
	EXISTING VAV BOX TO REMAIN		NEW PRESSURE REDUCING VALVE
	EXISTING THERMOSTAT		NEW CIRCUIT BALANCING VALVE
	REMOVE OR RE-USE WHERE SHOWN AS NEW		NEW THREE WAY AUTOMATIC CONTROL VALVE
	NEW THERMOSTAT		VENT THROUGH ROOF
	FAN SWITCH		DOWN THROUGH FLOOR
	EXISTING SPRINKLER HEAD TO REMAIN		PIPE UP
	REMOVE OR RELOCATE EXISTING SPRINKLER HEAD		PIPE DOWN
	NEW FIRE DAMPER		NEW METER
	NEW SMOKE DAMPER		NEW UNION
	NEW MANUAL BALANCING DAMPER		NEW STRAINER
	NEW VOLUME DAMPER		NEW BACKFLOW PREVENTER
	NEW MOTORIZED COMBINATION FIRE AND SMOKE DAMPER		EXISTING SANITARY DRAIN TO REMAIN
	NEW SANITARY VENT PIPE		EXISTING SANITARY DRAIN UNDER FLOOR TO REMAIN
	EXISTING SANITARY VENT PIPE TO REMAIN		EXISTING STORM DRAIN TO REMAIN
	NEW NATURAL GAS PIPE		EXISTING STORM DRAIN UNDER FLOOR TO REMAIN
	EXISTING NATURAL GAS PIPE TO REMAIN		NEW SANITARY DRAIN
	NEW CONDENSATE DRAIN		NEW SANITARY DRAIN UNDER FLOOR
	EXISTING CONDENSATE DRAIN TO REMAIN		P-TRAP
	HEATED WATER SUPPLY		EXISTING DOMESTIC COLD WATER TO REMAIN
	EXISTING HEATED WATER SUPPLY TO REMAIN		EXISTING DOMESTIC HOT WATER TO REMAIN
	NEW HEATED WATER RETURN		EXISTING DOMESTIC HOT WATER RECIRCULATION TO REMAIN
	EXISTING HEATED WATER RETURN TO REMAIN		NEW DOMESTIC COLD WATER
	NEW CHILLED WATER SUPPLY		NEW DOMESTIC HOT WATER
	EXISTING FIRE LINE TO REMAIN		NEW DOMESTIC HOT WATER RECIRCULATION
	EXISTING SPRINKLER LINE TO REMAIN		CIRCULATING PUMP
	GRILLE OR REGISTER SIZE TYPE		DIFF NECK SIZE DIFF TYPE
	EXHAUST OR RETURN AIR CFM		SUPPLY AIR L/S

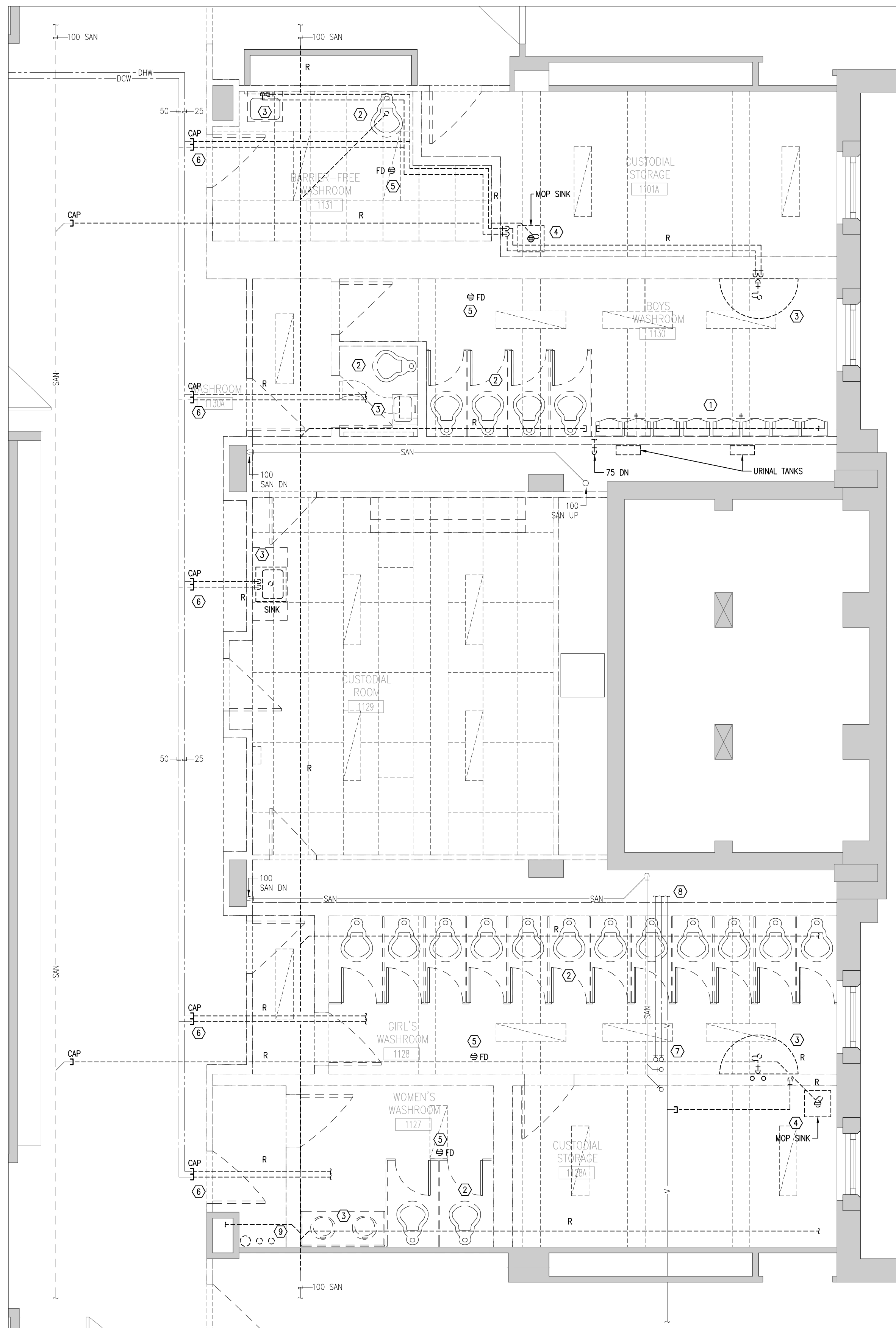
DRAWING SCHEDULE	
DWG NO	DRAWING TITLE
M-100	MECHANICAL LEGEND, SPECIFICATIONS, SCHEDULES & DRAWING LIST
M-101	SPECIFICATIONS, PLUMBING FIXTURES & DETAILS
M-200	GROUND FLOOR WASHROOM - PD (DEMO/NEW)
M-201	GROUND FLOOR WASHROOM - HVAC (DEMO/NEW)

AIR TERMINAL SCHEDULE						
TAG	SIZE	MANUFACTURER	TYPE	DESCRIPTION	FINISH	OPTIONS/ ACCESSORIES
A	REFER TO PLANS	EH PRICE	80	EGG CRATE RETURN AIR GRILLE	B12	
B	REFER TO PLANS	EH PRICE	STG1	TRANSFER DOOR GRILLE	B12	
C	600/600	EH PRICE	SCD	SQUARE CONE DIFFUSER	B12	

NOTES: EH PRICE OR APPROVED EQUAL

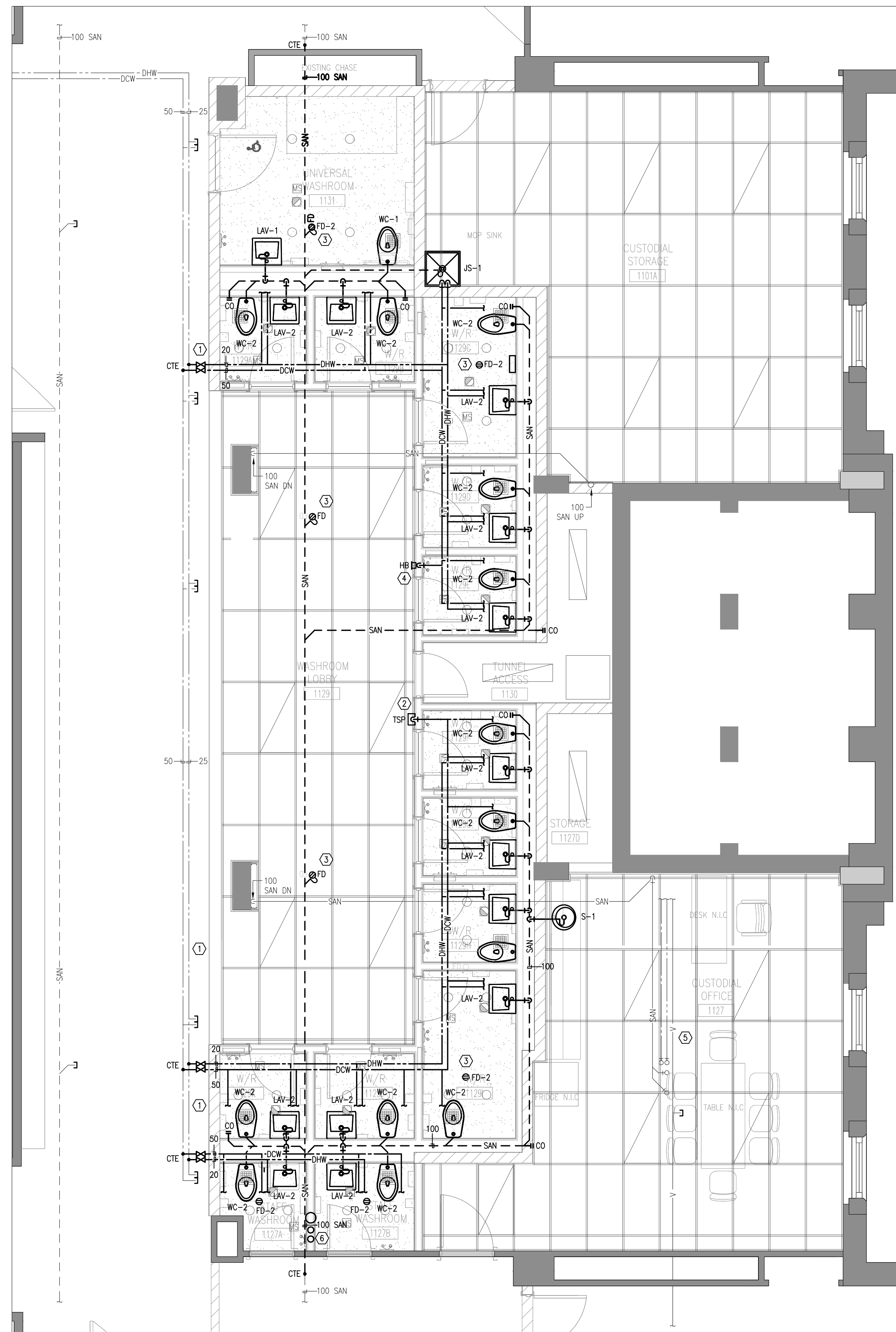
IMPERIAL TO METRIC SIZING CONVERSION					
1/8"	3mm	1"	25mm	3"	75mm
1/4"	6mm	1 1/2"	32mm	3 1/2"	90mm
3/8"	10mm	1 3/4"	40mm	4"	100mm
1/2"	15mm	2"	50mm	5"	125mm
5/8"	20mm	2 1/4"	65mm	6"	150mm

PLUMBING FIXTURES SIZING TABLE				
FIXTURE DESCRIPTION	DRAIN	VENT		



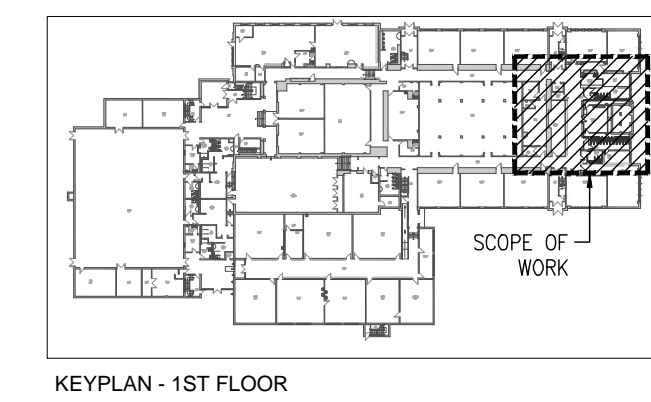
1 GROUND FLOOR – PD (DEMO)
M-200 SCALE 1:50

- KEYED NOTES: (1/M-200)**
- ① REMOVE EXISTING URINALS AND ASSOCIATED DCW AND SANITARY PIPING AS SHOWN. REMOVE EXISTING URINAL TANKS AND ASSOCIATED VALVES AND ACCESSORIES.
 - ② REMOVE EXISTING WATER CLOSETS AND ASSOCIATED DCW AND SANITARY PIPING AS SHOWN (TYPICAL).
 - ③ REMOVE EXISTING LAVATORY/ WASH FOUNTAIN AND ASSOCIATED DCW, DHW, AND SANITARY PIPING AS SHOWN. REMOVE ASSOCIATED VALVES AND ACCESSORIES.
 - ④ REMOVE MOP SINK AND ASSOCIATED DCW, DHW, AND SANITARY PIPING.
 - ⑤ REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED SANITARY PIPING, CAP AT MAIN.
 - ⑥ REMOVE EXISTING DCW AND DHW PIPING AS SHOWN, CAP AT MAIN IN CORRIDOR.
 - ⑦ ENSURE PLUMBING UP TO 2ND FLOOR REMAINS OPERATIONAL AND INTACT TO SERVE UPPER FLOORS.
 - ⑧ MAIN SANITARY PIPE BELOW GROUND TO BE REMOVED AND REPLACED WITH NEW AS SHOWN. REFER TO 2/M-200 FOR CONNECTION POINTS.
 - ⑨ RE-ROUTE EXISTING PIPES AS REQUIRED TO ACCOMMODATE NEW DOOR OPENING.



2 GROUND FLOOR – PD (NEW)
M-200 SCALE 1:50

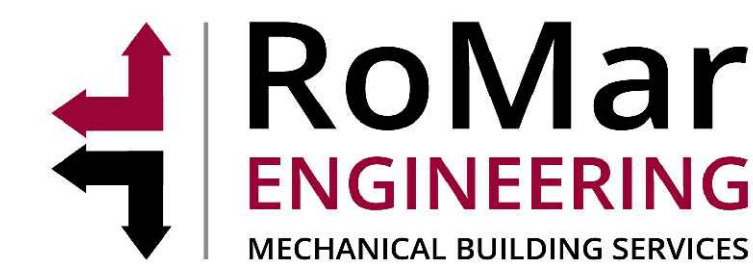
- GENERAL NOTES:**
ALL PLUMBING SHALL COMPLY WITH OBC PART 7 AND LOCAL AUTHORITY REQUIREMENTS.
- KEYED NOTES: (2/M-200)**
- ① TAKE OFF COMPLETE WITH ISOLATION VALVES 500 DCW AND 200 DHW FROM MAIN IN HALLWAY.
 - ② PROVIDE NEW TRAP SEAL PRIMER WITHIN HALLWAY CEILING SPACE, IN ACCESSIBLE LOCATION. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
 - ③ PROVIDE NEW FLOOR DRAIN (TYP.) AND CONNECT TO SANITARY PIPING IN CRAWL SPACE BELOW.
 - ④ PROVIDE NEW HOSE BIBB WITHIN WALL CHASE. SUPPLY NEW LOCKABLE ACCESS DOOR IN CHASE WALL AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
 - ⑤ CONNECT NEW PLUMBING TO 75# VENT.
 - ⑥ OFFSET EXISTING PIPES AS REQUIRED TO ACCOMMODATE NEW DOOR OPENING.



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NO.	ISSUES/ REVISIONS	DATE	BY
01	ISSUE FOR REVIEW	MAR/12/26	ME
02	ISSUE FOR REVIEW	APR/06/26	ME
03	ISSUE FOR PERMIT & TENDER	APR/24/26	ME

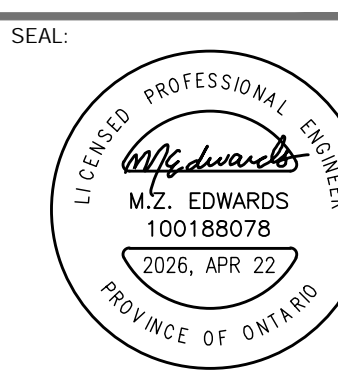


PROJECT:
O'NEIL CVI
WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS

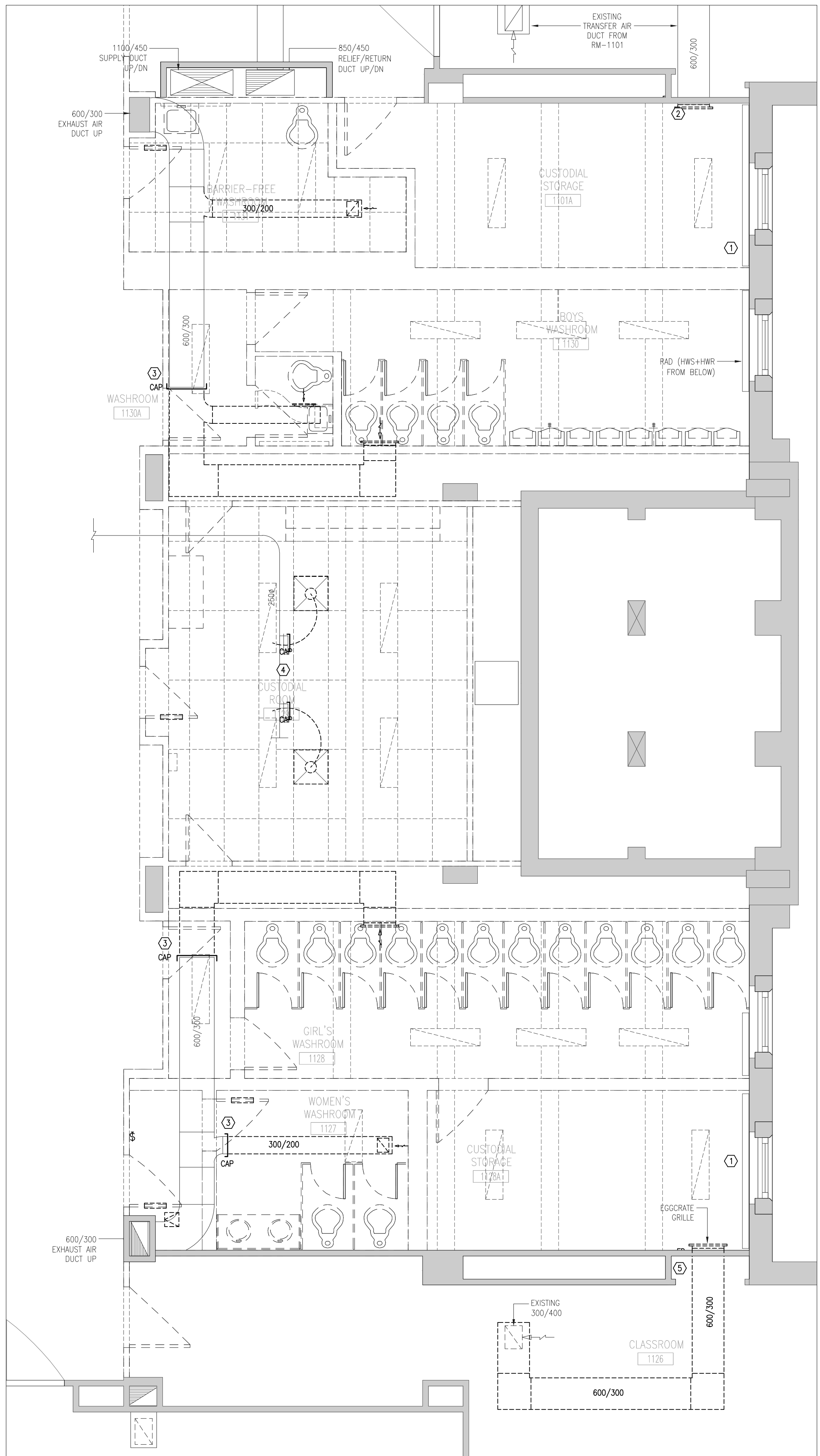
301 SIMCOE STREET NORTH
OSHAWA, ON, L1G 4T2
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
GROUND FLOOR -
PD (DEMO/NEW)

DESIGN BY: ME
DRAWN BY: GPC
CHECKED BY: ME
DATE: 04/24/26
SCALE: AS SHOWN

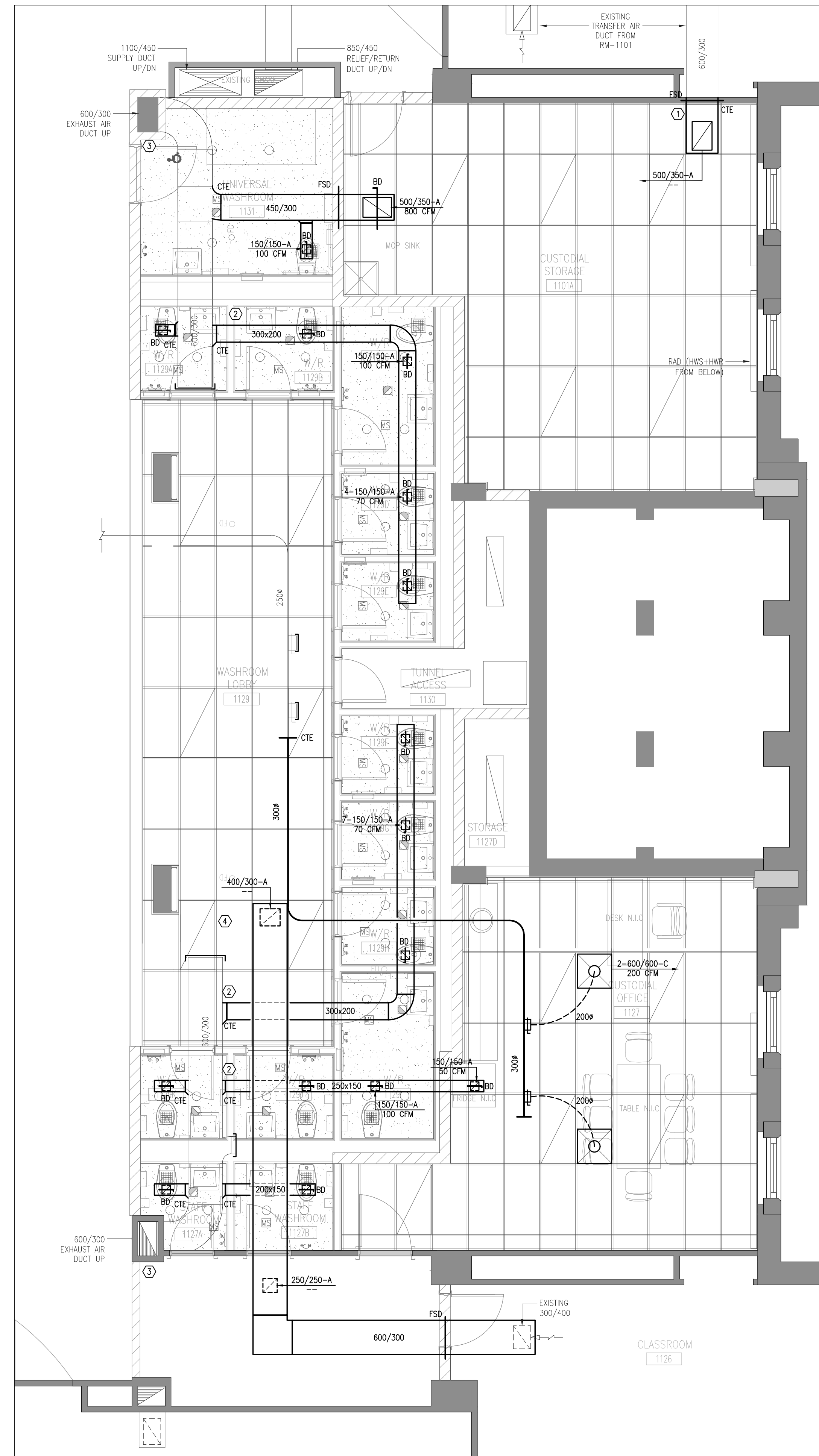


PROJECT NO: 26-01
DRAWING NO: M-200



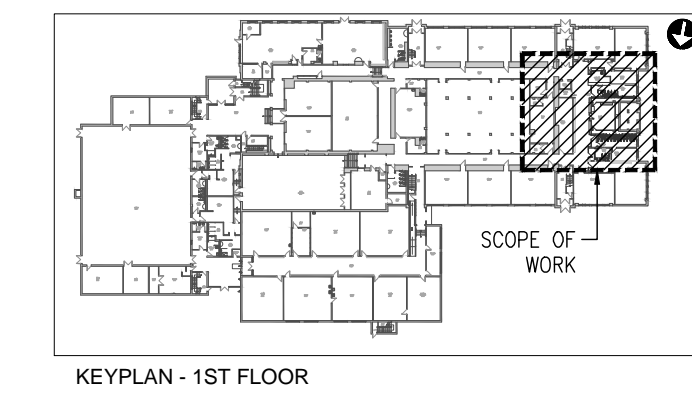
1 GROUND FLOOR - HVAC (DEMO)
M-201 SCALE 1:50

- KEYED NOTES: (1/M-201)**
- 1 EXISTING RADS AND ASSOCIATED VALVES AND CONTROLS TO REMAIN. CONTRACTOR TO ENSURE OPERATION REMAINS INTACT DURING AND AFTER CONSTRUCTION. HWS/R SERVING UPPER FLOORS TO REMAIN. TO BE WITHIN NEW DROPPED CEILING SPACE.
 - 2 REMOVE EXISTING FIRE DAMPER AND GRILLE, TO BE REPLACED WITH NEW FIRE SMOKE DAMPER (SEE 2/M-201).
 - 3 CAP EXISTING WASHROOM EXHAUST (TYP.) IN LOCATIONS SHOWN.
 - 4 CAP EXISTING SUPPLY AIR DUCT TAKEOFFS AS SHOWN.
 - 5 REMOVE PORTION OF TRANSFER AIR DUCT AS SHOWN, AS WELL AS FIRE DAMPER AND GRILLE. MAKE GOOD EXISTING OPENING.



2 GROUND FLOOR - HVAC (NEW)
M-201 SCALE 1:50

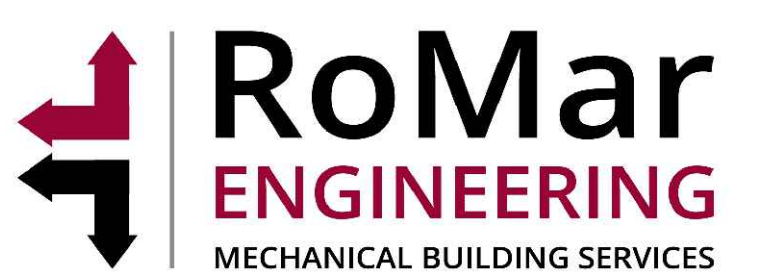
- KEYED NOTES: (2/M-201)**
- 1 INSTALL NEW FSD IN LOCATION SHOWN.
 - 2 CONNECT TO EXISTING EXHAUST DUCTWORK WITH NEW AS SHOWN. EACH EXHAUST GRILLE TO HAVE A CORRESPONDING BALANCING DAMPER (TYP.)
 - 3 ENSURE TIME OF DAY SCHEDULE FOR EF-W3 AND W6 REMAIN INTACT. CONTROLS TO BE VIA BAS AND NO MANUAL SWITCHES WITHIN ACCESSIBLE AREAS.
 - 4 NEW TRANSFER AIR DUCT TIGHT TO U/S OF CEILING FROM CLASSROOM 1126 TO CORRIDORS AS SHOWN.



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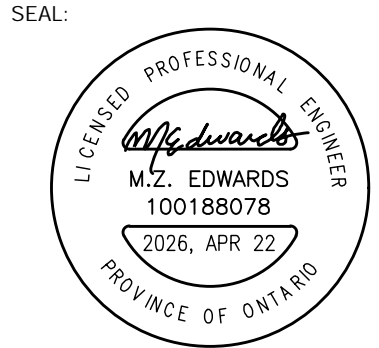


PROJECT:
O'NEIL CVI
WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS

301 SIMCOE STREET NORTH
OSHAWA, ON, L1G 4T2
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
GROUND FLOOR -
HVAC (DEMO/NEW)

DESIGN BY: ME
DRAWN BY: GPC
CHECKED BY: ME
DATE: 04/24/26
SCALE: AS SHOWN



PROJECT NO: 26-01
DRAWING NO: M-201

SPECIFICATION NOTES:

DRAWINGS ARE PERFORMANCE IN INTENT AND DIAGRAMMATIC IN NATURE.

PROVIDE ALL PRODUCTS AND LABOUR TO PERFORM COMPLETELY THE WORK AS SHOWN OR REQUIRED TO MEET THE DESIGN INTENT, AT NO EXTRA COST.

PERFORM ALL WORK IN CONFORMANCE TO BUILDING CODE, ELECTRICAL SAFETY CODE, LOCAL ELECTRICAL INSPECTOR'S REQUIREMENTS AND ALL MUNICIPAL BY-LAWS.

DO NOT REDUCE STANDARDS SET BY THESE DRAWINGS BY APPLYING CODES.

EXAMINE SITE FOR CONDITIONS AFFECTING WORK. NO EXTRA COST SHALL BE ALLOWED FOR CONSIDERATIONS OVERLOOKED.

APPLY FOR ALL PERMITS, SERVICES AND INSPECTIONS AND PAY ALL RELATED FEES.

SUBMIT SHOP DRAWINGS TO CONSULTANT FOR ALL ELECTRICAL EQUIPMENT FOR REVIEW AND COMMENTS.

CARRY OUT WORK IN CONFORMANCE TO BASE BUILDING STANDARDS.

MAKE ANY ADJUSTMENTS, REROUTINGS OR RELOCATIONS TO EXISTING ELECTRICAL PRODUCTS AS REQUIRED. PROVIDE SUCH ADJUSTMENTS AT NOT EXTRA COST.

BECOME FULLY FAMILIAR WITH EXISTING BUILDING SYSTEMS & EQUIPMENT OPERATIONS. PROVIDE ALL REQUIRED PRODUCTS TO MAKE NEW WORK FULLY OPERATIONAL TO MEET DESIGN INTENT.

INCLUDE IN QUOTED PRICE FOR ALL ALTERATIONS TO EXISTING BUILDING SYSTEMS AND ANY INSTALLED PRODUCTS AFFECTED IN INTERFACING NEW WORK.

MAINTAIN ALL BUILDING SERVICE IN OPERATION. PROVIDE ALL TEMPORARY WIRING AND CONNECTIONS. SHUTDOWN SERVICES ONLY AS AUTHORIZED IN WRITING.

INCLUDE IN QUOTED PRICE FOR PREMIUM TIME WORK REQUIRED.

COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. NOTIFY CONSULTANT OF ANY DISCREPANCIES.

TEST NEW AND EXISTING INTERFACED SYSTEMS TO ENSURE PROPER OPERATION. CORRECT ALL DEFICIENCIES.

REPAIR ANY SYSTEM DAMAGED DURING EXECUTION OF WORK.

PRODUCTS SHALL BE OF MANUFACTURE SPECIFIED. WHERE MANUFACTURE IS NOT SPECIFIED, PRODUCTS SHALL BE OF HIGH COMMERCIAL QUALITY AND SHALL BE CSA APPROVED FOR THE APPLICATION.

VERIFY LOADING OF EXISTING CIRCUITS TO BE REUSED. DO NOT EXCEED CODE REQUIREMENTS. VERIFY ON SITE EXISTING CIRCUITS USED, SPARE AND SPACES AVAILABLE WHERE EXISTING PANELS ARE TO BE REUSED. PROVIDE ADDITIONAL BREAKERS AND CIRCUITS AS NECESSARY.

ADJUST PANEL SCHEDULES TO REFLECT ANY CHANGES PERFORMED TO THE CIRCUITS.

ALL NEW BREAKERS SHALL BE BOLT-ON TYPE, 'SWD' RATED TO MATCH EXISTING.

ALL NEW DISCONNECT SWITCHES SHALL BE HEAVY DUTY QUICK-MAKE, QUICK BREAK ENCLOSED SAFETY SWITCHES.

PACK AND SEAL ALL PENETRATIONS THROUGH FLOORS AND FIRE RATED WALLS WITH APPROVED MATERIAL TO RETAIN FIRE RATING.

PROVIDE ALL CUTTING AND PATCHING REQUIRED TO EFFECT WORK WITH THE PRIOR APPROVAL AND INSTRUCTION OF THE OWNER'S REPRESENTATIVE.

WIRE NEW POWER OUTLETS IN EMT CONDUIT.

DO ALL REQUIRED WORK RELATED TO LIFE SAFETY SYSTEMS AT NO EXTRA COST. RETAIN THE SYSTEM MANUFACTURER'S FORCES TO PERFORM FINAL CONNECTIONS, MODIFICATIONS AND PROVISION OF NEW INTERFACING DEVICES IN THE SYSTEM PANELS.

ENSURE FULL COMPATIBILITY OF ALL NEW DEVICES WITH EXISTING LIFE SAFETY SYSTEMS.

HAVE SYSTEM MANUFACTURER TEST AND CERTIFY LIFE SAFETY SYSTEMS FOR PROPER OPERATION AT COMPLETION OF WORK. PROVIDE COMPLETE SYSTEM VERIFICATION TO SUIT LOCAL AUTHORITIES.

DO NOT SCALE DRAWINGS. FOR EXACT LOCATIONS REFER TO ARCHITECTURAL DRAWINGS AND VERIFY ON SITE ALL DIMENSIONS PRIOR TO INSTALLING PRODUCTS.

ADJUST LOCATION OF PRODUCTS UP TO 3m (10 FT) IN ANY DIRECTION AS DIRECTED AT NO EXTRA COST, PROVIDED THE CHANGES ARE REQUESTED PRIOR TO INSTALLATION.

INCLUDE FOR ANY ADDITIONAL COSTS INCURRED BY OTHER TRADES RESULTING FROM SUBSTITUTING ANY ALTERNATIVE EQUIPMENT.

PROVIDE RECORD DRAWINGS OF THE AS-CONSTRUCTED WORK. OBTAIN AND PAY FOR ONE (1) SET OF MYLAR SEPIAS. SUBMIT SEPIAS AND ONE (1) SET OF PRINTS FOR APPROVAL.

PROVIDE A FULLY ITEMIZED BREAKDOWN OF LABOUR AND MATERIAL FOR EXTRA OR DELETED WORK.

ARRANGE FOR INSPECTION OF WORK BY INSPECTION AUTHORITY. PROVIDE A FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL.

PROVIDE A WRITTEN GUARANTEE FOR ONE (1) YEAR COVERING MATERIAL AND WORKMANSHIP. RECTIFY ANY DEFECTS PROMPTLY.

REFER TO DIVISION 15 DOCUMENTS AND PROVIDE ALL POWER WIRING AND DISCONNECT SWITCHES REQUIRED.

ENSURE RECEPTACLES ARE INSTALLED WHICH MATCH EQUIPMENT PLUG CONFIGURATION. MAKE CHANGES TO SUIT AT NO EXTRA COST. TEST EACH RECEPTACLE FOR PROPER POLARITY AND GROUND.

SUPPORT ALL NEW CONDUIT INSTALLATION FROM STRUCTURE. SECURE ALL PRODUCTS IN APPROVED MANNER.

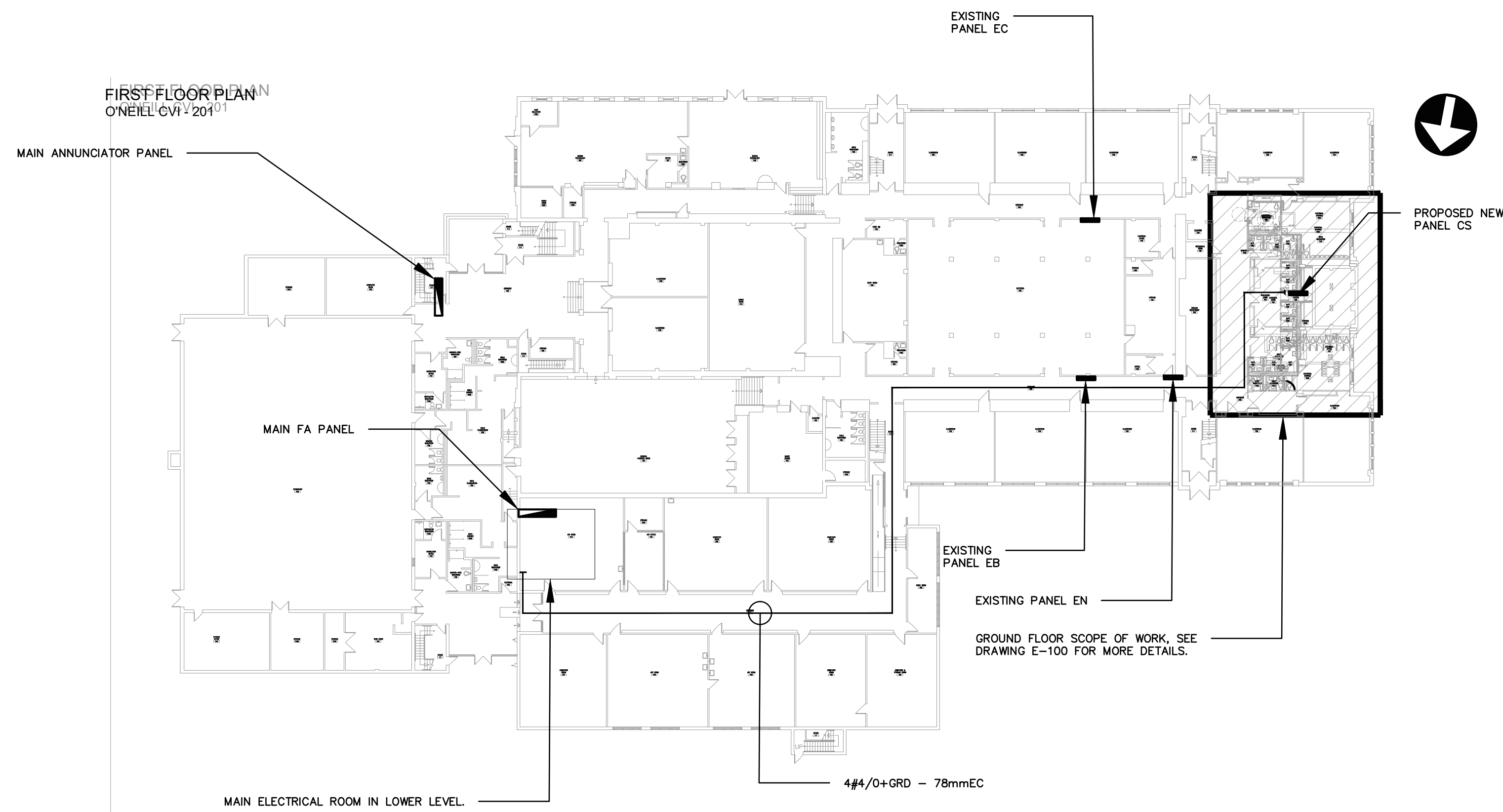
CIRCUIT NUMBERS INDICATED ON DRAWINGS ARE FOR LOAD GROUPING PURPOSES ONLY. BALANCE LOADS ON PANELS TO WITHIN 10% ACROSS PHASES.

PROVIDE ALL WIRING DEVICES AS SPECIFICATION GRADE UNLESS NOTED OTHERWISE.

IDENTIFY ALL EQUIPMENT PROVIDED WITH LAMICOID PLATES WITH 7mm (1/4") HIGH ENGRAVED LETTERS.

PROVIDE ALL WIRING AS COPPER T90 FOR OVERHEAD INSTALLATION AND RW90 FOR UNDER GROUND INSTALLATION. ALL WIRING SHALL BE DONE IN CONDUIT UNLESS OTHERWISE NOTED. BX CABLE MAY BE USED IN PARTITION WALLS AND CEILING SPACE FOR RUNS NOT EXCEEDING 10 FT. HORIZONTALLY.

MINIMUM WIRE SIZE IS #12 AWG. INCREASE SIZE AS REQUIRED TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3% AND FEEDER VOLTAGE DROPS TO 2% AT FULL LOAD AS PER OESC AND OBC SB-10 REQUIREMENTS. USE SOLID CONDUCTORS FOR SIZES #10 AWG AND SMALLER AND STRANDED CONDUCTORS FOR SIZES # 8 AWG AND LARGER.



KEY PLAN - SECOND FLOOR
SCALE: 1:400

LEGEND OF SYMBOLS		
EXISTING	NEW	DESCRIPTION
		FLUORESCENT OR LED LIGHT FIXTURE. INSCRIBED LETTER DENOTES TYPE AS PER SCHEDULE.
		H.I.D. OR LED LIGHT FIXTURE. INSCRIBED LETTER DENOTES TYPE AS PER SCHEDULE.
		SIMILAR TO ABOVE BUT CONNECTED TO NIGHT LIGHT CIRCUIT.
		CEILING OR WALL MOUNTED LED SERIES PICTOGRAM "RUNNING MAN" EXIT LIGHT SHADED AREA DENOTES REQUIRED FACE. SELF-POWERED 120/347V. LUMACELL OR EQUAL.
		CEILING OR WALL MOUNTED LED SERIES PICTOGRAM "RUNNING MAN" COMBO EXIT LIGHT C/W SELF-CONTAINED 120/347V, 6V DC EMERGENCY BATTERY PACK AND 2-6W MR16 LED LAMPHEADS. LUMACELL OR EQUAL.
		EMERGENCY BATTERY UNIT AS NOTED ON DRAWINGS C/W 12V, 6 WATT MR16 LED LAMPHEADS, UNLESS NOTED OTHERWISE. LUMACELL RGS SERIES C/W 1/2 HOUR WATTAGE CAPACITY AS NOTED ON DRAWINGS (120/347V INPUT). CONTRACTOR MUST NOT EXCEED 3% VOLTAGE DROP.
		SINGLE OR DOUBLE REMOTE EMERGENCY LAMPHEADS WALL MOUNTED C/W 6 WATT MR16 LED LAMPS, UNLESS NOTED OTHERWISE. LUMACELL OR APPROVED EQUAL.
		CEILING MOUNTED SELF-POWERED, 120/347V EMERGENCY FIXTURE C/W 4 X 2.5 WATT LED LAMP BEGHELLI PL-R-EM SERIES OR APPROVED EQUAL.
		15A 120V DUPLEX IN-GROUND RECEPTACLE C/W MATCHING COVERPLATE. MH 12" A.F.F. ("20A" DENOTES CSA 5-20R, "1/6" DENOTES ISOLATED GROUND).
		SAME AS ABOVE EXCEPT QUAD RECEPTACLE
		SAME AS ABOVE EXCEPT MH 3"-6" AFF OR 6" ABOVE COUNTER.
		SPECIAL RECEPTACLE. CSA CONFIGURATION AS NOTED.
		FLUSH FLOOR MOUNTED BOX WITH 2-20A DUPLEX RECEPTACLE AND PROVISION FOR TEL./DATA WIRING C/W CAST ALUMINUM COVER. VERIFY FINISHED COLOR. LEGRAND EVOLUTION SERIES EFBBS
		FLUSH FLOOR MOUNTED BOX FOR CONNECTION TO SYSTEMS FURNITURE C/W CAST ALUMINUM COVER, VERIFY FINISHED COLOR. LEGRAND EVOLUTION SERIES EFBFF
		WALL MOUNTED BOXES FOR POWER AND TEL./DATA WIRING TO SYSTEMS FURNITURE REFER TO FLOOR PLANS FOR WIRING REQUIREMENTS.
		SINGLE POLE TOGGLE SWITCH C/W MATCHING COVERPLATE. ("PL" DENOTES C/W PILOT LIGHT, "3" DENOTES 3-WAY, "D" DENOTES DIMMER TO SUIT APPLICATION)
		WALL MOUNTED TELEPHONE OUTLET C/W COVER PLATE MATCHING ADJACENT CONVENIENCE OUTLETS. MH 12" A.F.F. UNLESS NOTED OTHERWISE EXTEND 3/4" EMT CONDUIT C/W PULL ROPE TO ACCESSIBLE CEILING SPACE.
		WALL MOUNTED DATA OUTLET C/W COVER PLATE MATCHING ADJACENT CONVENIENCE OUTLETS. MH 12" A.F.F. UNLESS NOTED OTHERWISE EXTEND 3/4" EMT CONDUIT C/W PULL ROPE TO ACCESSIBLE CEILING SPACE.
		WALL MOUNTED TELEPHONE/DATA OUTLET C/W COVER PLATE MATCHING ADJACENT CONVENIENCE OUTLETS. MH 12" A.F.F. UNLESS NOTED OTHERWISE EXTEND 3/4" EMT CONDUIT C/W PULL ROPE TO ACCESSIBLE CEILING SPACE.
		WALL MOUNTED CABLE OUTLET C/W COVER PLATE MATCHING ADJACENT CONVENIENCE OUTLETS. MH 12" A.F.F. UNLESS NOTED OTHERWISE EXTEND 3/4" EMT CONDUIT C/W PULL ROPE TO ACCESSIBLE CEILING SPACE.
		CONNECTION TO 120V MOTOR OR POWER OUTLET AS INDICATED ON DRAWINGS.
		CONNECTION TO 208V 1 PHASE MOTOR OR POWER OUTLET AS INDICATED ON DRAWINGS.
		CONNECTION TO 208V 3 PHASE MOTOR OR POWER OUTLET AS INDICATED ON DRAWINGS.
		CONNECTION TO 600V 3 PHASE MOTOR OR POWER OUTLET AS INDICATED ON DRAWINGS.
		DISCONNECT SWITCH SIZED AS INDICATED ON DRAWINGS OR TO SUIT.
		MANUAL MOTOR STARTER SUPPLIED BY MECHANICAL CONTRACTOR BUT INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
		MAGNETIC MOTOR STARTER SUPPLIED BY MECHANICAL CONTRACTOR BUT INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
		THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
		ELECTRIC BASEBOARD HEATER 347V 1 PHASE C/W BUILT-IN THERMOSTAT UNLESS INDICATED OTHERWISE STELPRO 9 SERIES OR APPROVED EQUAL. WATTAGE OF UNITS AS INDICATED ON DRAWINGS. PROVIDE JUNCTION BOX BEHIND BASEBOARD HEATER FLUSH WITH FINISHED WALL FOR CONNECTION TO HEATER.
		RECESSED ELECTRIC FORCE FLOW HEATER 347V 1 PHASE C/W BUILT-IN THERMOSTAT TAMPERPROOF. STELPRO WF SERIES OR EQUAL. WATTAGE OF UNITS AS INDICATED ON DRAWINGS.
		SUSPENDED ELECTRIC UNIT HEATER 600V, 3 PHASE C/W REMOTE THERMOSTAT UNLESS OTHERWISE NOTED. STELPRO SHU SERIES OR EQUAL. WATTAGE OF UNITS AS INDICATED ON DRAWINGS.
		ELECTRICAL PANEL
		FIRE ALARM PANEL OR ANNUNCIATOR
		JUNCTION BOX TO SUIT APPLICATION
		SPEED CONTROLLER SUPPLIED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
		SINGLE PUSH BUTTON STATION
		MULTI PUSH BUTTON STATION
		FIRE ALARM MANUAL PULL STATION.
		FIRE ALARM HORN,
		FIRE ALARM STROBE (110cd).
		FIRE ALARM HORN/STROBE (110cd).
		FIRE ALARM HEAT DETECTOR, 135F RATE OF RISE.
		FIRE ALARM HEAT DETECTOR, 200F FIXED TEMPERATURE.
		FIRE ALARM SMOKE DETECTOR.

ABBREVIATION:

WP	DENOTES "WEATHER PROOF (NEMA TYPE 4X ENCLOSURE)".
IG	DENOTES "ISOLATED GROUND".
GFI	DENOTES "GROUND FAULT INTERRUPTER".
ER	DENOTES EXISTING ITEM TO BE RELOCATED.
RL	DENOTES EXISTING ITEM IN RELOCATED POSITION.
EX	DENOTES EXISTING ITEM TO REMAIN.
R	DENOTES EXISTING ITEM TO BE REMOVED.
N	DENOTES NEW TO MATCH EXISTING.

DRAWING LIST

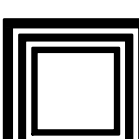
E-100	- ELECTRICAL LEGEND, SPECIFICATION AND DETAILS
E-200	- FIRST FLOOR WASHROOMS & CUSTODIAN ROOM DEMO AND NEW WORK LIGHTING
E-300	- FIRST FLOOR WASHROOMS & CUSTODIAN ROOM DEMO AND NEW WORK POWER
E-400	- ELECTRICAL DETAILS

NO.	DATE	REVISION	BY
1	MAR.11/26	ISSUED FOR REVIEW	MA
2	APR.02/26	ISSUED FOR REVIEW	MA
3	APR.24/26	ISSUED FOR PERMIT & TENDER	MA


 LICENSED PROFESSIONAL ENGINEER
 M.SHABAN-AHMED
 00514870
 APR.24/26
 PROVINCE OF ONTARIO



ELECTRICAL CONSULTANT:

 **MJA ENGINEERING LTD.**
ELECTRICAL ENGINEERS

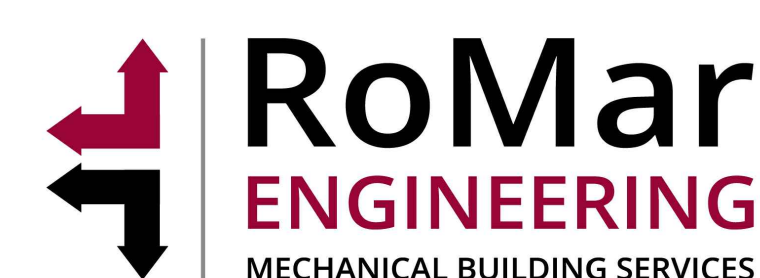
556 EDWARD AVENUE, UNIT 82
RICHMOND HILL, ONTARIO
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MECHANICAL CONSULTANT:

 **RoMar ENGINEERING**
MECHANICAL BUILDING SERVICES

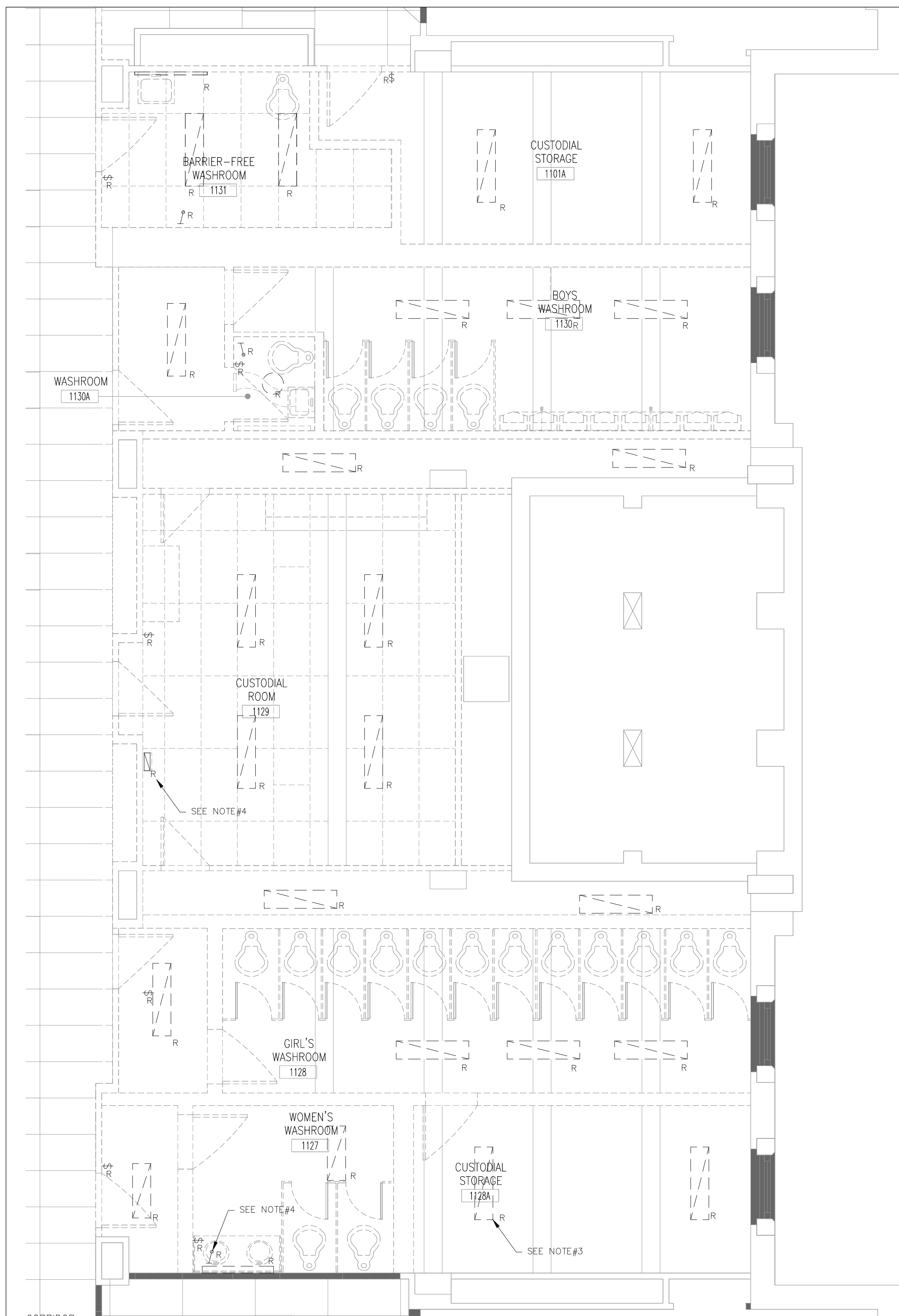
PROJECT/LOCATION

O'NEIL CVI WASHROOM RENOVATIONS & INTERIOR RENOVATIONS.
301 SIMCOE STREET NORTH, OSHAWA, ON

DRAWING NAME

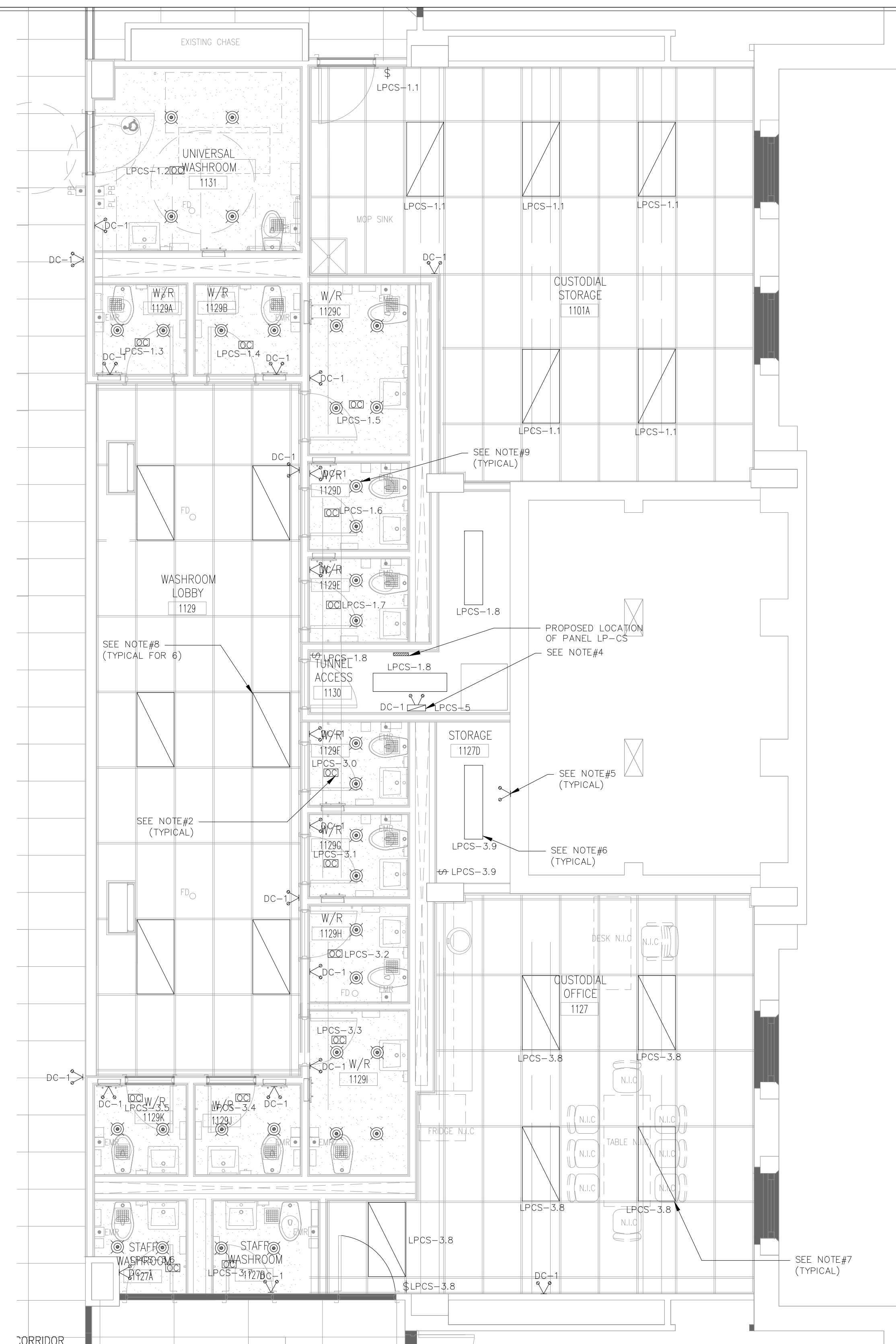
ELECTRICAL LEGEND, SPECIFICATION AND DETAILS

DRAWN	H.G.	SCALE	N.T.S.	DRAWING NO.
CHECKED	M.A.	DATE	MAR. 2026	E-100
PROJECT NO.	2026-014			



DEMOLITION NOTES

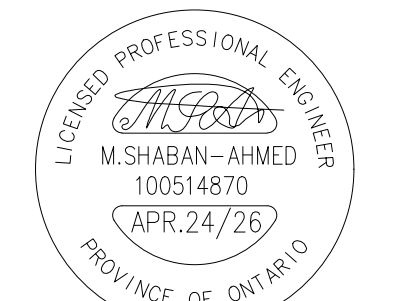
1. UNLESS OTHERWISE NOTED ALL ELECTRICAL EQUIPMENT SHOWN SHALL BE REMOVED AND DISPOSED OF OFF SITE IN AN APPROVED MANNER.
2. ELECTRICAL CONTRACTOR SHALL ALSO REMOVE ALL ASSOCIATED CONDUIT AND WIRE FOR REMOVED EQUIPMENT UNLESS OTHERWISE NOTED.
3. EXISTING LIGHT BEING REMOVED.
4. EXISTING EMERGENCY HEAD TO BE REMOVED.



NEW WORK NOTES

1. UNLESS OTHERWISE INDICATED/ OR NOTED ALL EQUIPMENT SHOWN IS NEW TO BE PROVIDED BY THIS ELECTRICAL CONTRACTOR.
2. NEW OCCUPANCY SENSOR TO CONTROL WASHROOM LIGHTS.
3. NEW REMOTE DOUBLE HEAD 2X7W LED CONNECTED TO EXISTING BATTERY UNIT IN ELECTRICAL ROOM.
4. NEW 360W EMERGENCY BATTERY UNIT DC-1 C/W 2X7W LED HEADS.
5. NEW 2X7W LED REMOTE HEADS CONNECTED TO BATTERY UNIT DC-1.
6. NEW 1X4 RECESSED MOUNTED FIXTURE SUITABLE FOR DRYWALL INSTALLATION SIMILAR TO RENO-14BLPL-DV-MW-MCCT.
7. NEW 2X4 RECESSED MOUNTED FIXTURE SUITABLE FOR TILES INSTALLATION SIMILAR TO RENO-24BLPL-DV-MW-MCCT-ECO.
8. CONNECT TO EXISTING CORRIDOR LIGHT CIRCUIT.
9. NEW 6" POTLIGHT RECESSED MOUNTED SUITABLE FOR DRYWALL INSTALLATION SIMILAR TO RENO-DL6-MW-DV-MCCT-G2.

NO.	DATE	REVISION	BY
1	MAR.11/26	ISSUED FOR REVIEW	MA
2	APR.02/26	ISSUED FOR REVIEW	MA
3	APR.24/26	ISSUED FOR PERMIT & TENDER	MA



ELECTRICAL CONSULTANT:

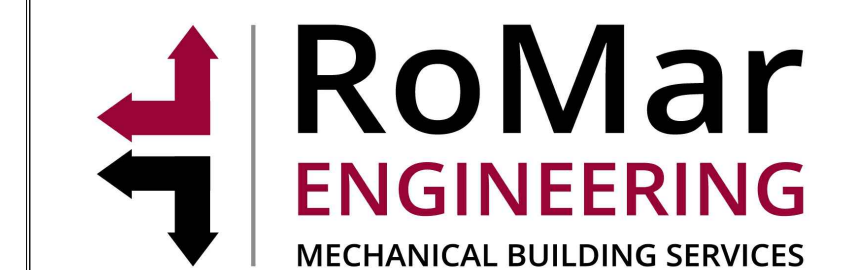
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ELECTRICAL ENGINEERS

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PROJECT/LOCATION

**O'NEIL CVI
WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS.**
301 SIMCOE STREET NORTH, OSHAWA, ON

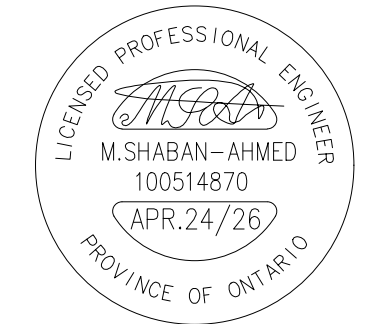
DRAWING NAME

FIRST FLOOR WASHROOMS &
CUSTODIAN ROOM DEMO AND NEW
WORK LIGHTING

DRAWN	SCALE	DRAWING NO.
H.G.	1:50	
CHECKED	DATE	E-200
M.A.	MAR. 2026	

PROJECT NO. **2026-014**

NO.	DATE	REVISION	BY
1	MAR.11/26	ISSUED FOR REVIEW	M.A
2	APR.02/26	ISSUED FOR REVIEW	M.A
3	APR.24/26	ISSUED FOR PERMIT & TENDER	M.A

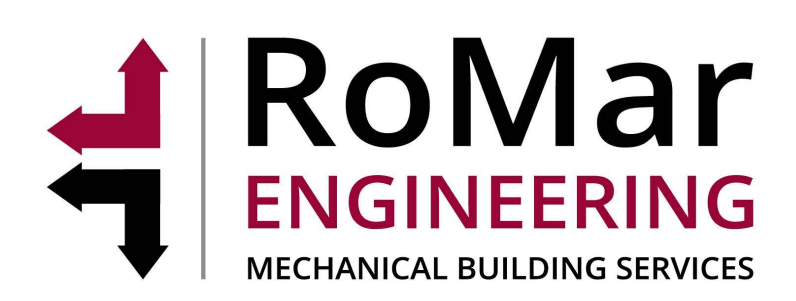


ELECTRICAL CONSULTANT:
MJA ENGINEERING LTD.
 ELECTRICAL ENGINEERS
 556 EDWARD AVENUE, UNIT 82
 RICHMOND HILL, ONTARIO
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 PHONE: (905) 780-8590 FAX: (905) 780-8591
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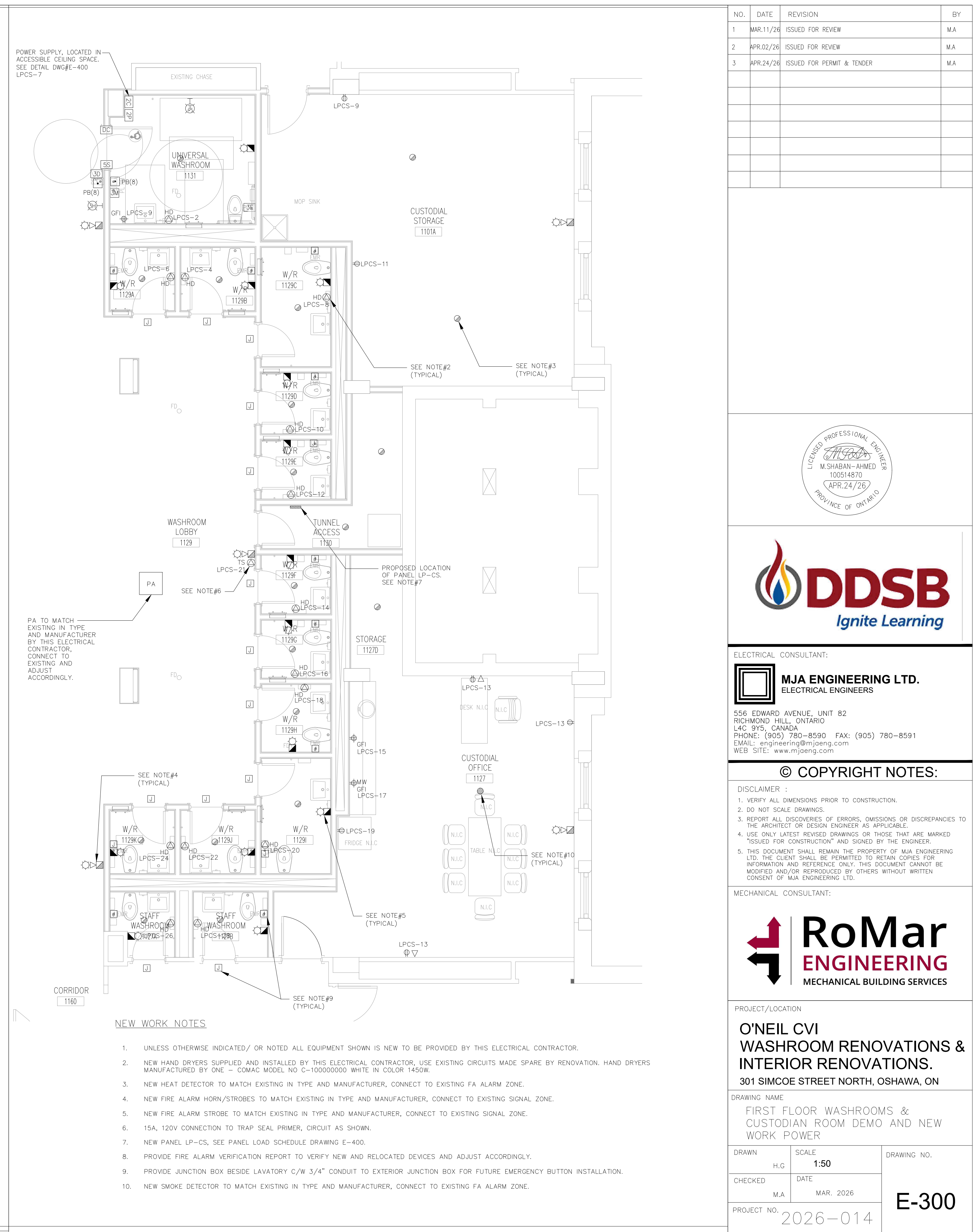
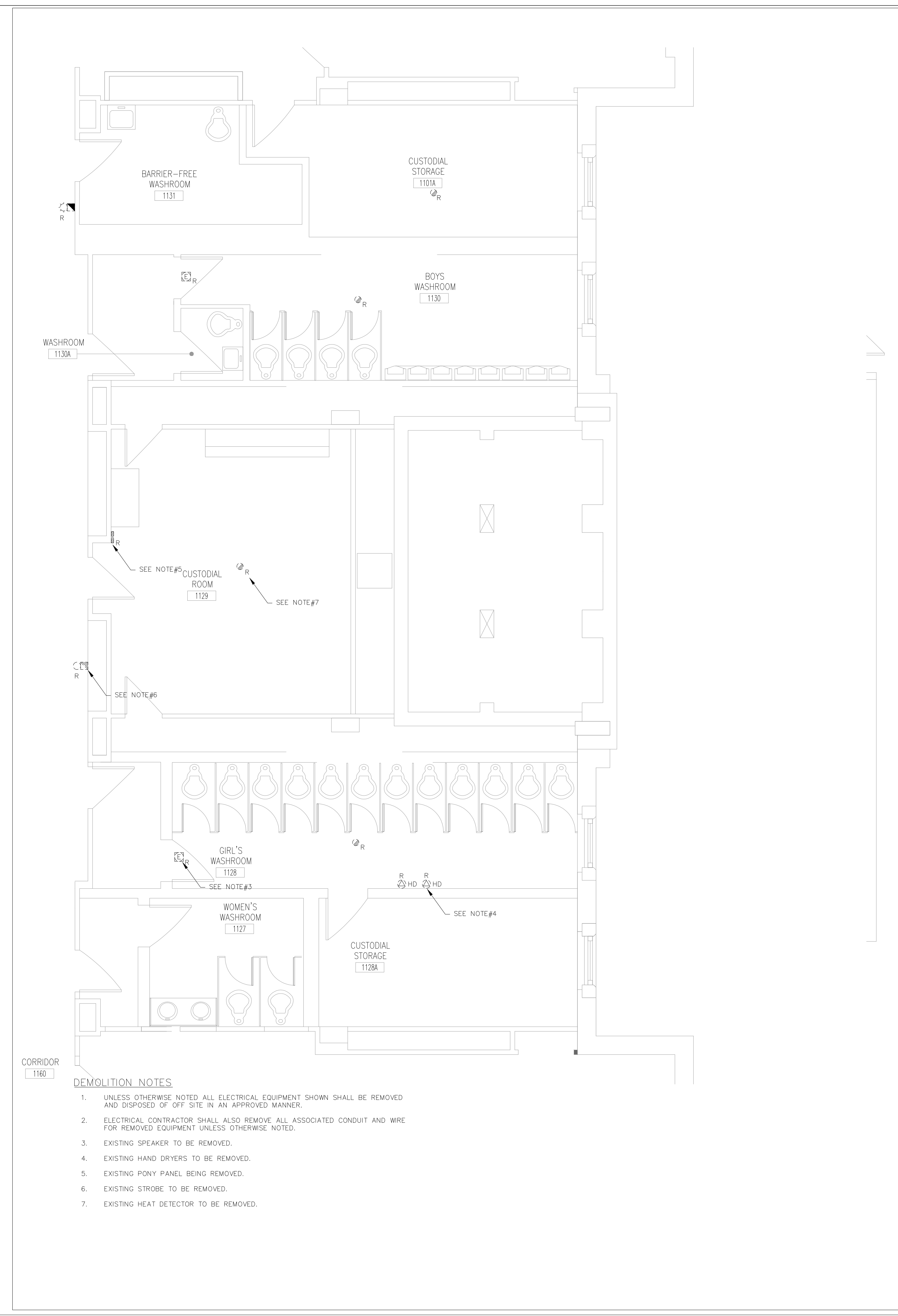
MECHANICAL CONSULTANT:



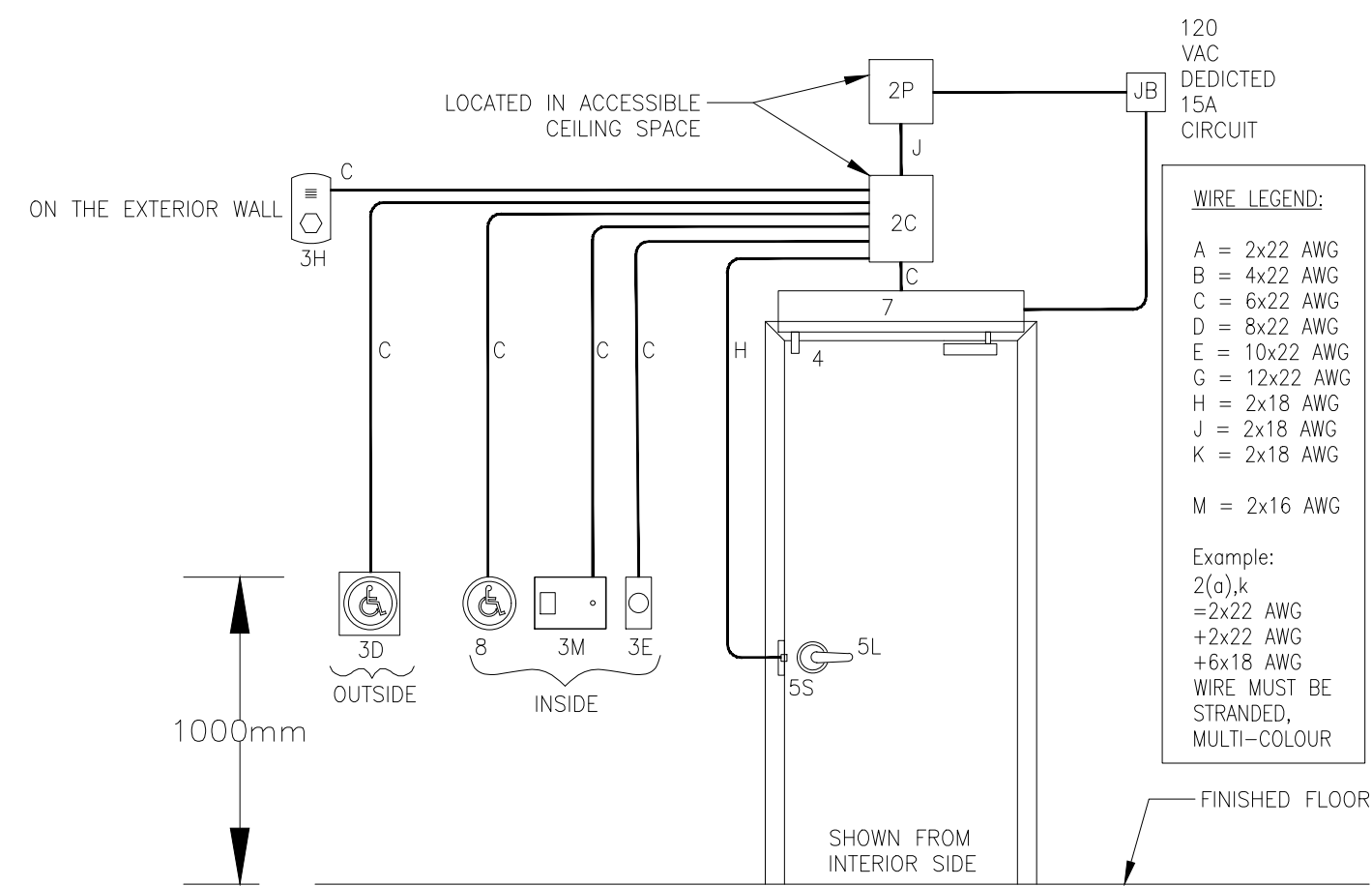
PROJECT/LOCATION
O'NEIL CVI
WASHROOM RENOVATIONS & INTERIOR RENOVATIONS.
 301 SIMCOE STREET NORTH, OSHAWA, ON

DRAWING NAME
 FIRST FLOOR WASHROOMS & CUSTODIAN ROOM DEMO AND NEW WORK POWER

DRAWN	SCALE	DRAWING NO.
H.G	1:50	
CHECKED	DATE	E-300
M.A	MAR. 2026	
PROJECT NO. 2026-014		



NO.	DATE	REVISION	BY
1	MAR.11/26	ISSUED FOR REVIEW	MA
2	APR.02/26	ISSUED FOR REVIEW	MA
3	APR.24/26	ISSUED FOR PERMIT & TENDER	MA

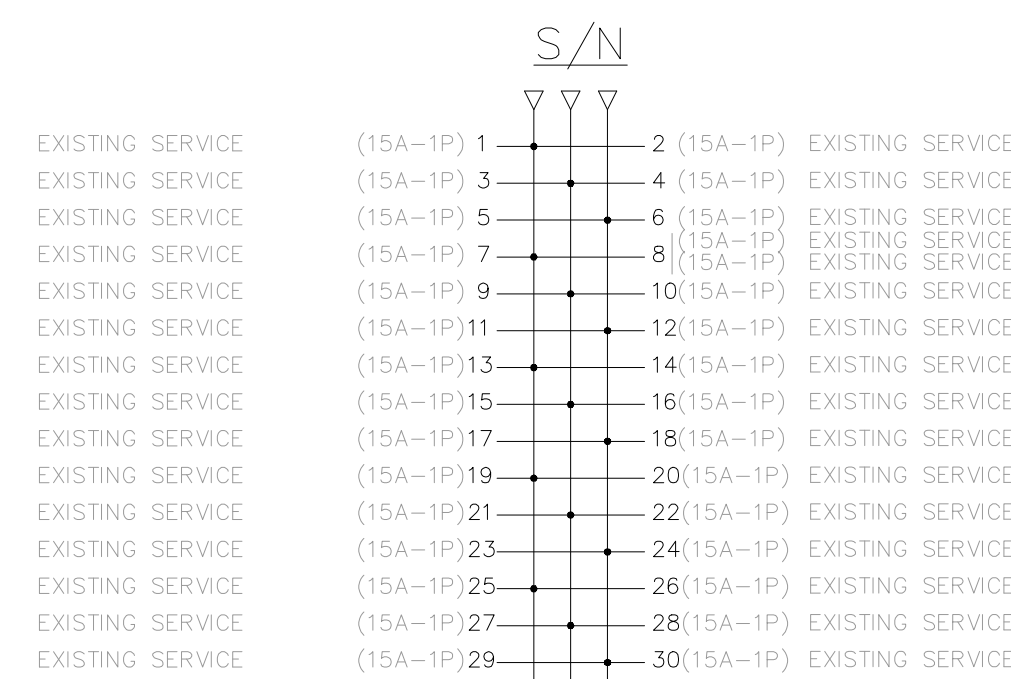


UNIVERSAL ACCESSIBLE WASHROOM EMERGENCY ACCESS/ALARM DETAIL
N.T.S.

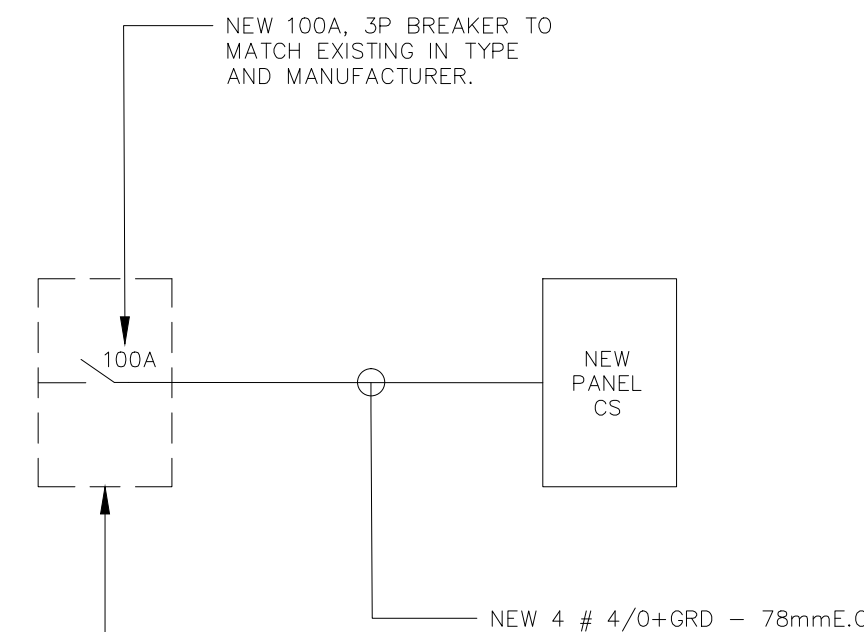
NOTES:

- UNLESS OTHERWISE NOTED/INDICATED ALL EQUIPMENT IS PROVIDED BY DOOR HARDWARE INSTALLER AND TO BE WIRED BY THIS ELECTRICAL CONTRACTOR AS PER MANUFACTURER RECOMMENDATIONS. ELECTRICAL CONTRACTOR SHALL SUPPLY, INSTALL AND WIRE FOR A COMPLETE AND OPERATING SYSTEM. ALL WIRING SHALL BE AS INDICATED, SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- COMPLETE INSTALLATION SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS INCLUDE COSTS FOR MANUFACTURERS REPRESENTATIVE TO VISIT SITE TO TEST AND VERIFY SYSTEM OPERATION AND INSTRUCT STAFF IN IT'S OPERATION.
- ALL CONDUIT AND WIRE SHALL BE RUN CONCEALED.
- REFER TO FLOOR PLANS FOR LOCATIONS.

ITEM	DESCRIPTION
2C	WASHROOM CONTROLLER, 10"x10"x4"
2P	POWER SUPPLY, 24VDC, 1A, 13"x14"x4"
3D	ACTUATOR SWITCH & OCCUPIED INDICATOR, CM541 BOX
3H	HORN/STROBE, 200mA @24VDC, 1-GANG 1"x4"
3E	EMERGENCY PUSH BUTTON & EMERGENCY SIGN, 2 GANG 4"x4"
3M	PUSH TO LOCK BUTTON & LOCKED INDICATOR CM541 BOX
4	DOOR POSITION SWITCH, SPST CLOSED LOOP, 3/4" DIA.
5L	LEVER STOREROOM LOCK
5S	ELECTRIC STRIKE, 130mA @24VDC, FAIL SAFE
7	LOW ENERGY DOOR OPERATOR, 115VAC, 60HZ, 3A
8	ACTUATOR SWITCH, SPST MOM, CM53GBL BOX



EXISTING PANEL 'LP-EB' TO REMAIN AS IS
225 AMP, 120/208V, 3Ø, 4W

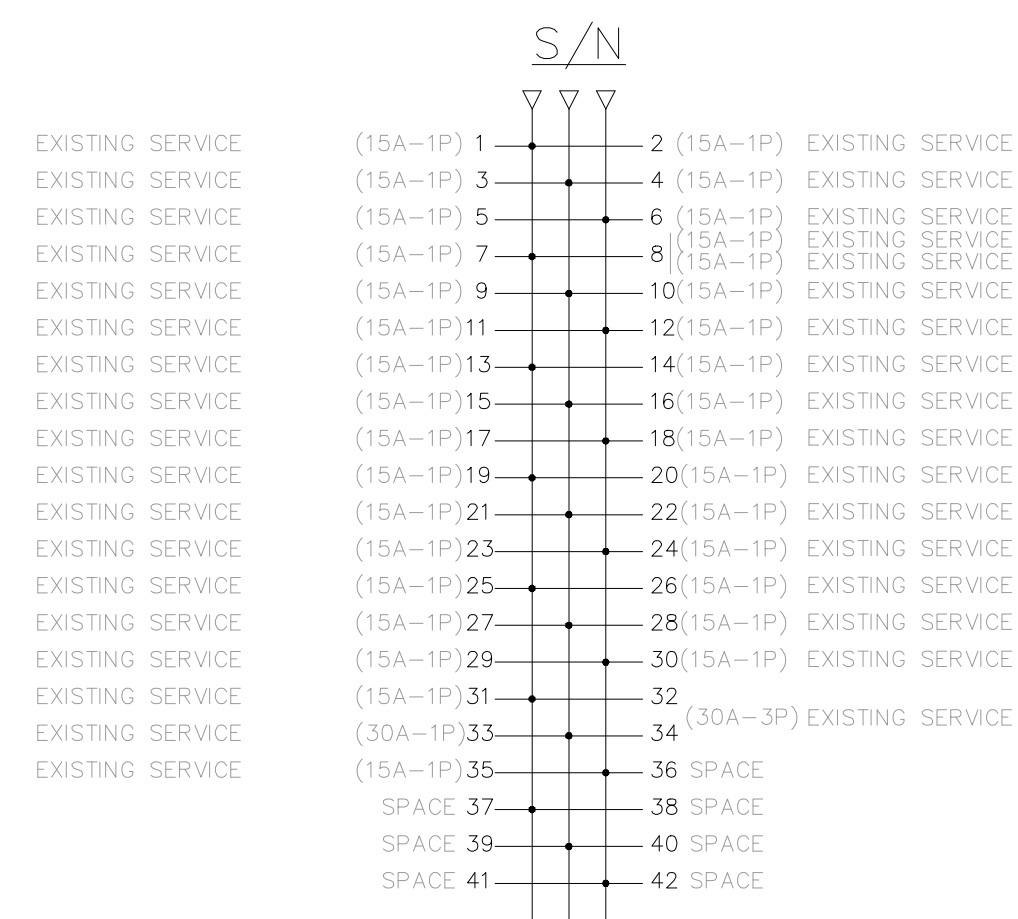


EXISTING MAIN SWITCHBOARD 2000A, 120/208V 3Ø 4W EATON MANUFACTURE, LOCATED IN MAIN ELECTRICAL ROOM IN LOWER FLOOR.

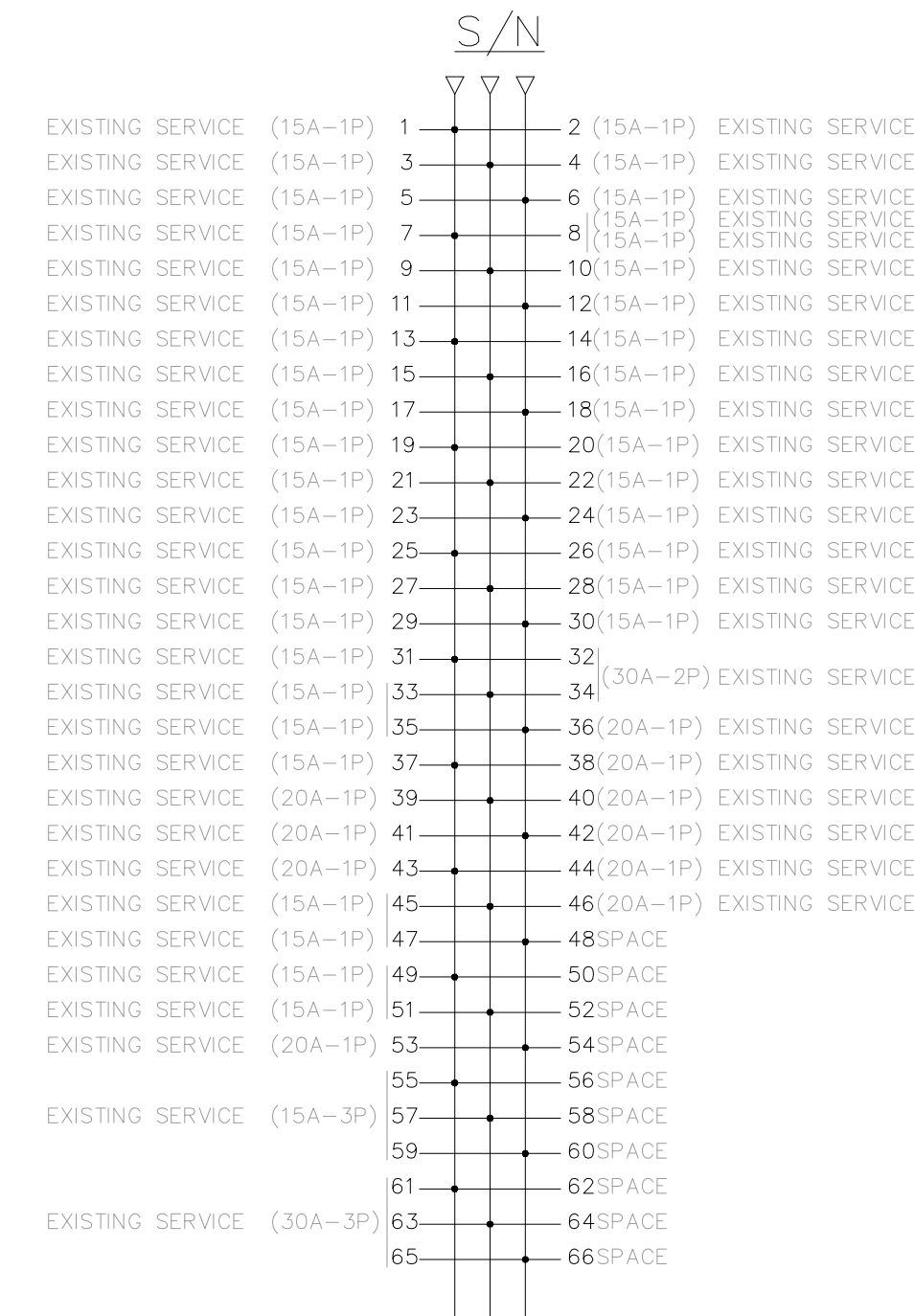
PART DISTRIBUTION DETAIL #1
N.T.S.

NOTES:

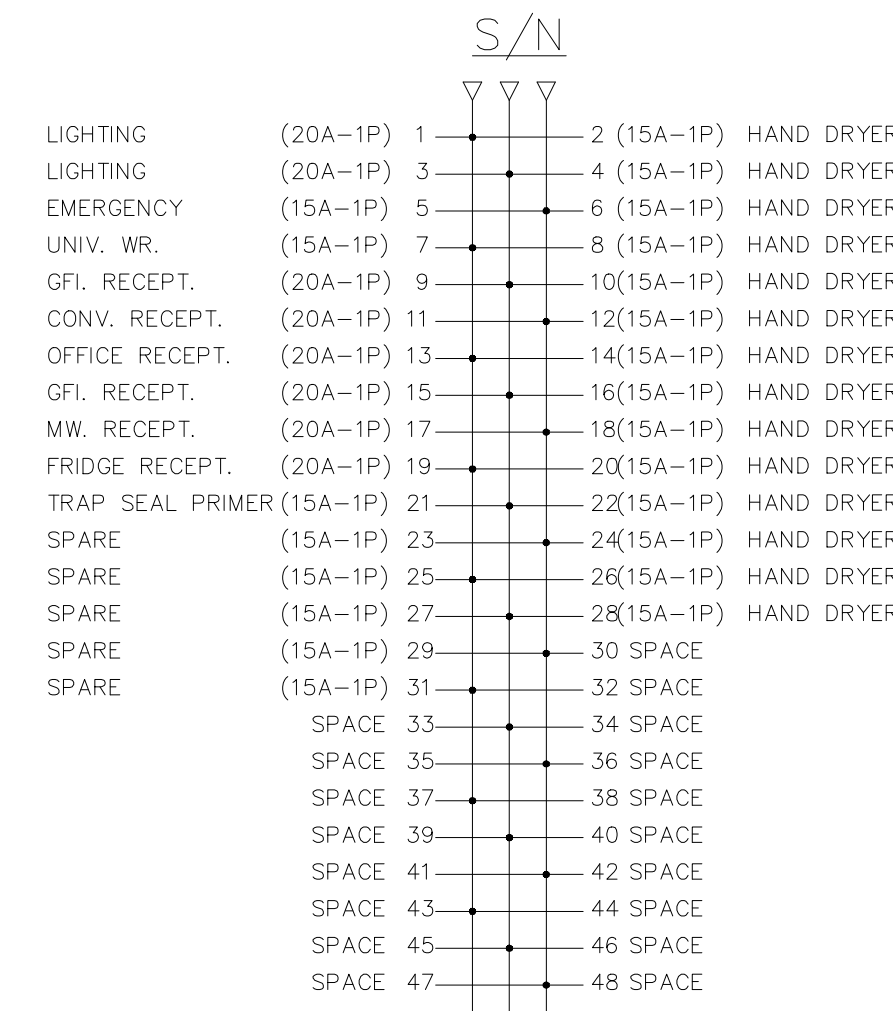
- UNLESS OTHERWISE NOTED ALL ELECTRICAL EQUIPMENT SHOWN IS NEW TO BE PROVIDED BY THIS ELECTRICAL CONTRACTOR.
- PROVIDE LAMACOD NAMEPLATES FOR ALL DISTRIBUTION EQUIPMENT.



EXISTING PANEL 'LP-EC' TO REMAIN AS IS
225 AMP, 120/208V, 3Ø, 4W



EXISTING PANEL 'LP-EN' TO REMAIN AS IS
225 AMP, 120/208V, 3Ø, 4W
- LOCATED IN ENGLISH DEPT.

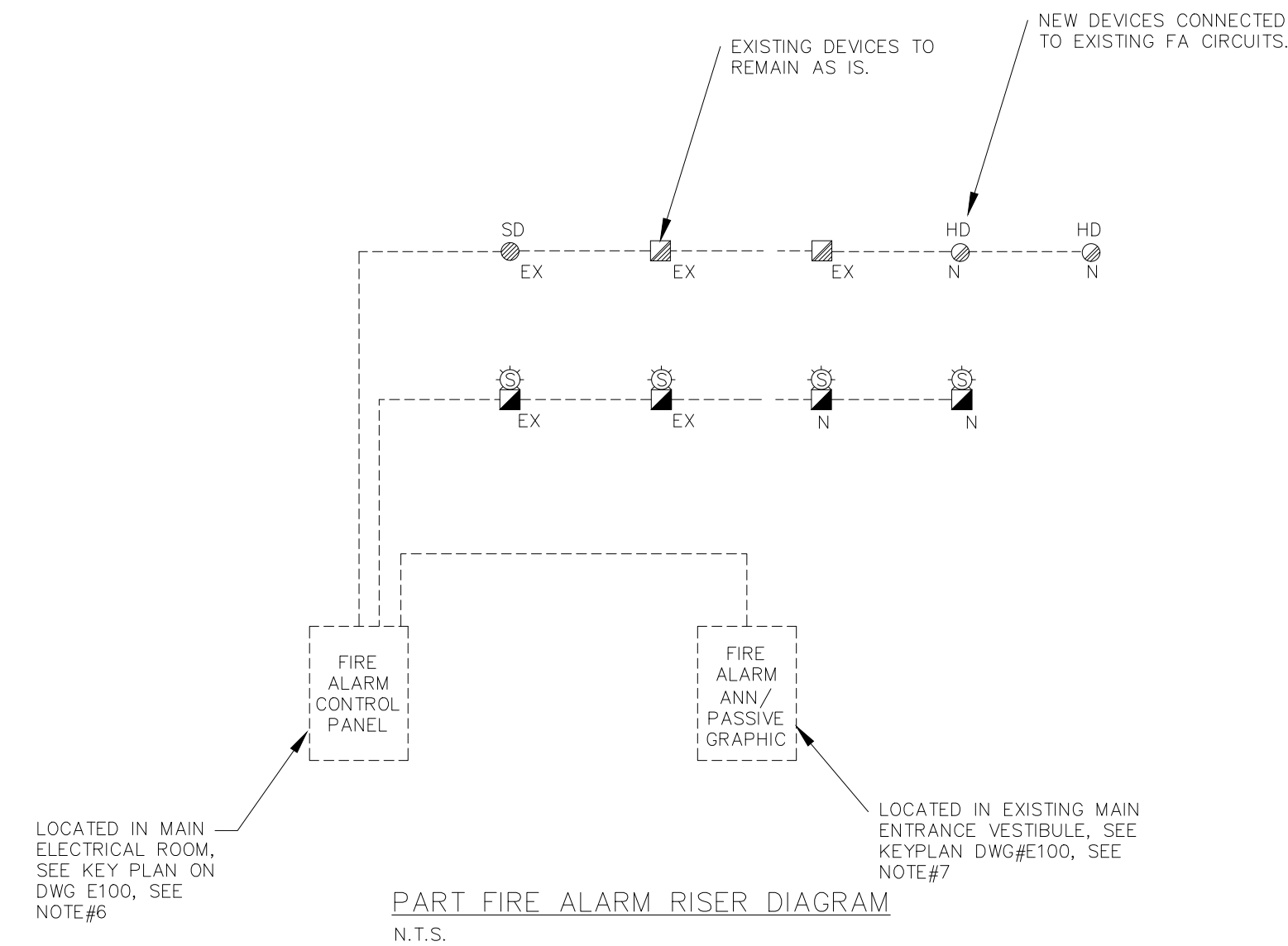


NEW PANEL 'LP-CS'

225 AMP, 120/208V, 3Ø, 4W
- LOCATED IN ENGLISH DEPT.

NOTES: RE PANELS

- ALL BREAKERS & SERVICES SHOWN ARE NEW.
- PROVIDE TYPED PANEL DIRECTORY TO REFLECT FINAL AS-BUILT CONDITION.



FIRE ALARM NOTES

- THE EXISTING FIRE ALARM SYSTEM IS A SIMPLEX 4100U.
- ALL NEW DEVICES SHALL MATCH EXISTING IN TYPE & MANUFACTURE.
- ALL WIRING SHALL BE RUN IN CONDUIT AND BE AS PER SYSTEM MANUFACTURES RECOMMENDATIONS.
- SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT & DEVICES.
- INCLUDE FOR ALL COSTS FOR TESTING & VERIFICATION BY SYSTEM MANUFACTURE & SUBMITTAL OF VERIFICATION REPORT AND CERTIFICATE.
- INCLUDE FOR ALL COSTS (INCLUDING PROGRAMMING) ASSOCIATED WITH UPGRADING OF CONTROL PANEL TO INCLUDE ALL NEW ZONES.
- EXISTING PASSIVE GRAPHIC TO BE REPLACED WITH NEW SIMILAR TO EXISTING TO SHOW EXISTING ZONES AND ALL NEW ZONES.
- PROVIDE ALL MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.



ELECTRICAL CONSULTANT:

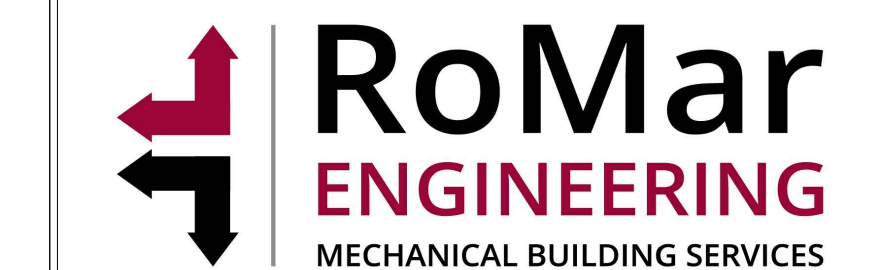


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MECHANICAL CONSULTANT:



PROJECT/LOCATION

O'NEIL CVI
WASHROOM RENOVATIONS &
INTERIOR RENOVATIONS.
301 SIMCOE STREET NORTH, OSHAWA, ON

DRAWING NAME

ELECTRICAL DETAILS

DRAWN	SCALE	DRAWING NO.
H.G.	AS SHOWN	E-300
CHECKED	DATE	
M.A.	MAR. 2026	

PROJECT NO. 2026-014