

GENERAL

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION AND THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS.
- CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- SITE VERIFY ALL DIMENSIONS AND LEVELS.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL BE USED.
- ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.

CONCRETE REINFORCEMENT

- THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
SLABS	25mm TOP BARS 25mm BOTTOM BARS
COLUMNS/PIERS	40mm TO TIES
SURFACE IN CONTACT WITH GROUND	75mm

- STRUCTURAL GROUT SHALL BE NON-SHRINK, NON METALLIC M-BED STANDARD PREMIX BY SIKA OR APPROVED EQUAL.
- REINFORCING BAR SPLICES FOR DEFORMED BARS: ALL OTHERS - CLASS 'B' TENSION LAP UNLESS NOTED
- ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
- WELDED STEEL WIRE FABRIC, PLAIN TYPE CONFORMING TO CSA G30.5M IN FLAT SHEETS NOT ROLLED.
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS.
- PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1 AND CSA A23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL THE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
- CHAIRS SHALL BE SPACED AT 1200mm O.C. MAXIMUM.

STRUCTURAL STEEL

- STRUCTURAL STEEL HSS SHALL BE G40.21M-350W CLASS C. W SECTIONS SHALL BE G40.21M-350W. ALL OTHERS SHALL BE G40.21M-300W
- ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR UNLESS NOTED OTHERWISE.
- SUBMIT SHOP DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S ENGINEER. DRAWINGS SHALL BE SIGNED AND SEALED BY THAT ENGINEER.
- BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE.
- FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CSA S16.1.
- ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER CSA W47.
- ALL CONNECTIONS SHALL BE WELDED USING EPOXY ELECTRODES OR BOLTED USING ASTM A325M HIGH STRENGTH BOLTS.
- REMOVE PAINT FILM FROM ALL STEEL SURFACES TO BE WELDED.
- DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- WHERE A STRUCTURAL STEEL SHAPE SHOWN ON THE DRAWINGS IS UNAVAILABLE, A SHAPE OF EQUAL OR GREATER SECTION PROPERTIES AND STRUCTURAL CAPACITY SHALL BE SUBSTITUTED UPON APPROVAL BY OWNER AND CONSULTANT AT NO EXTRA COST.
- FABRICATOR'S ENGINEER MUST BE LICENSED IN THE PROVINCE OF ONTARIO.
- ALL EXTERIOR EXPOSED STRUCTURAL STEEL, MISCELLANEOUS METALS, ANCHORS, ETC. SHALL BE HOT DIP GALVANIZED.
- REFER TO ELECTRICAL FOR GROUNDING REQUIREMENTS.

MASONRY

- PERFORM MASONRY WORK IN ACCORDANCE WITH CAN/CSA A370 AND CAN/CSA A371 UNLESS NOTED OTHERWISE.
- ONLY TYPE 'S' MORTAR SHALL BE USED. MINIMUM STRENGTH SHALL BE 12.4 MPa AT 28 DAYS.
- MORTAR FOR EXTERIOR MASONRY SHALL BE AIR ENTRAINED.
- PROVIDE LATERAL RESTRAINT AT TOP OF NON-LOAD BEARING BLOCK PARTITIONS AS INDICATED ON TYPICAL DETAILS.
- PROVIDE VERTICAL WALL REINFORCING FOR FULL HEIGHT OF LIFT, CONTINUOUS FROM FLOOR TO FLOOR/ROOF, WITH CLASS B LAPS, WELD REINFORCING TO ALL BEARING PLATES AND STEEL BEAMS WHICH INTERSECT THE CONTINUOUS REINFORCING STEEL.
- MASONRY WORK SHALL CONFORM TO CAN3-S304 AND ITS REFERENCED DOCUMENTS.
- SUBMIT EVIDENCE OF MORTAR AND GROUT STRENGTH FIELD CONTROL AND TESTING SHALL COMPLY WITH REQUIREMENTS OF CLAUSE 5 OF CAN3-S304.
- PROVIDE TEMPORARY BRACING OF MASONRY WORK UNTIL PERMANENT LATERAL SUPPORT IS IN PLACE.
- PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS. SEE LINTEL SCHEDULE FOR REQUIREMENTS.
- REFER TO TYPICAL DETAILS FOR BOND BEAM AND BEARING REQUIREMENTS AT FLOORS AND ROOFS.
- MINIMUM STANDARD LAP LENGTH:
WIRE REIN - 200mm
10M BARS - 400mm
15M BARS - 600mm
20M BARS - 800mm
- UNLESS NOTED OTHERWISE, PROVIDE 2-15M VERTICAL BARS FULL HEIGHT AT THE UNSUPPORTED ENDS OF WALLS AND ON EACH SIDE OF CONTROL JOINTS.
- FILL CELLS CONTAINING VERTICAL REINFORCING AND BOLTS WITH GROUT VIBRATE OR Puddle TO FILL CELLS COMPLETELY.
- FILL CELLS IN 1500mm LIFTS MAXIMUM OR BETWEEN BOND BEAMS, WHICHEVER IS LESS, UNLESS SPECIAL PROVISIONS ARE MADE TO ENSURE FULL GROUT COLUMNS HAVE BEEN MADE TO THE SATISFACTION OF THE ENGINEER.
- CONTROL JOINTS SHALL BE INSTALLED AT MAXIMUM SPACING OF 6000mm, UNLESS NOTED OTHERWISE.
- FILL BLOCK CORES UNDER ALL BEAMS, JOISTS AND OTHER CONCENTRATED POINT LOADS WITH CONCRETE GROUT. GROUT SHALL EXTEND A MINIMUM OF 600mm BELOW BEARING.
- CONTROL JOINTS AND EXPANSION JOINTS SHALL BE CONTINUED THROUGH BOND BEAMS IF NOT OTHERWISE SHOWN.
- NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5°C, UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND PROTECTING THE WORK.
- FIRST COURSE OF MASONRY SHALL BE LAID IN A FULL BED OF MORTAR. ALL OTHER COURSES TO BE LAID WITH MORTAR AT FACE SHELL BED AND HEAD JOINTS.

- POCKETS FOR STEEL BEAMS AND JOISTS SHALL BE GROUTED SOLID AND THE WALL MADE GOOD AFTER PLACEMENT OF BEAMS.
- ALL NON-LOAD BEARING MASONRY WALLS SHALL BE REINFORCED WITH HORIZONTAL SMR WIRE REINFORCEMENT AT 400mm C/C IN BED JOINTS. (TYP.)
- ALL NON-LOAD BEARING MASONRY WALLS SHALL BE REINFORCED WITH VERTICAL 10M BARS IN GROUTED CELLS AT EACH END OF ALL OPENINGS GREATER THAN 1800mm AND AT ALL UNSUPPORTED ENDS OF WALLS.
- BLOCK STRENGTHS SHALL BE AS FOLLOWS:

CONCRETE BLOCK MASONRY COMPRESSIVE STRENGTH (MPa)			
LOCATION	NET	GROSS (f'm) FOR HOLLOW BLOCK	GROSS (f'm) FOR SOLID OR GROUTED BLOCK
LOAD BEARING CONCRETE BLOCK	20	13	10
NON-LOAD BEARING CONCRETE BLOCK	15	9.8	7.5

FINISH HARDWARE

- SUBMIT HARDWARE LIST (6 COPIES) FOR APPROVAL IN ACCORDANCE WITH THE GENERAL CONDITIONS. HINGES - DO NOT NEED TO BE NRP
- SUBMIT TEMPLATES TO DOOR AND FRAME SUPPLIER
- LOCKS TO BE MASTER KEYPED TO SUIT OWNER'S REQUIREMENTS. 1 CLOSER LON4040P-CUSH
- ALL FASTENERS SHALL BE CONCEALED OR TAMPERPROOF 2 DOOR PULL
- AUTOMATIC DOOR OPERATOR TO BE ASSA ABLOY SW2001 C/W CAMDEN COMPONENTS 2 PUSH PLATE
- ACTUATORS TO BE CM 7536 2 KICK PLATE

PAINT

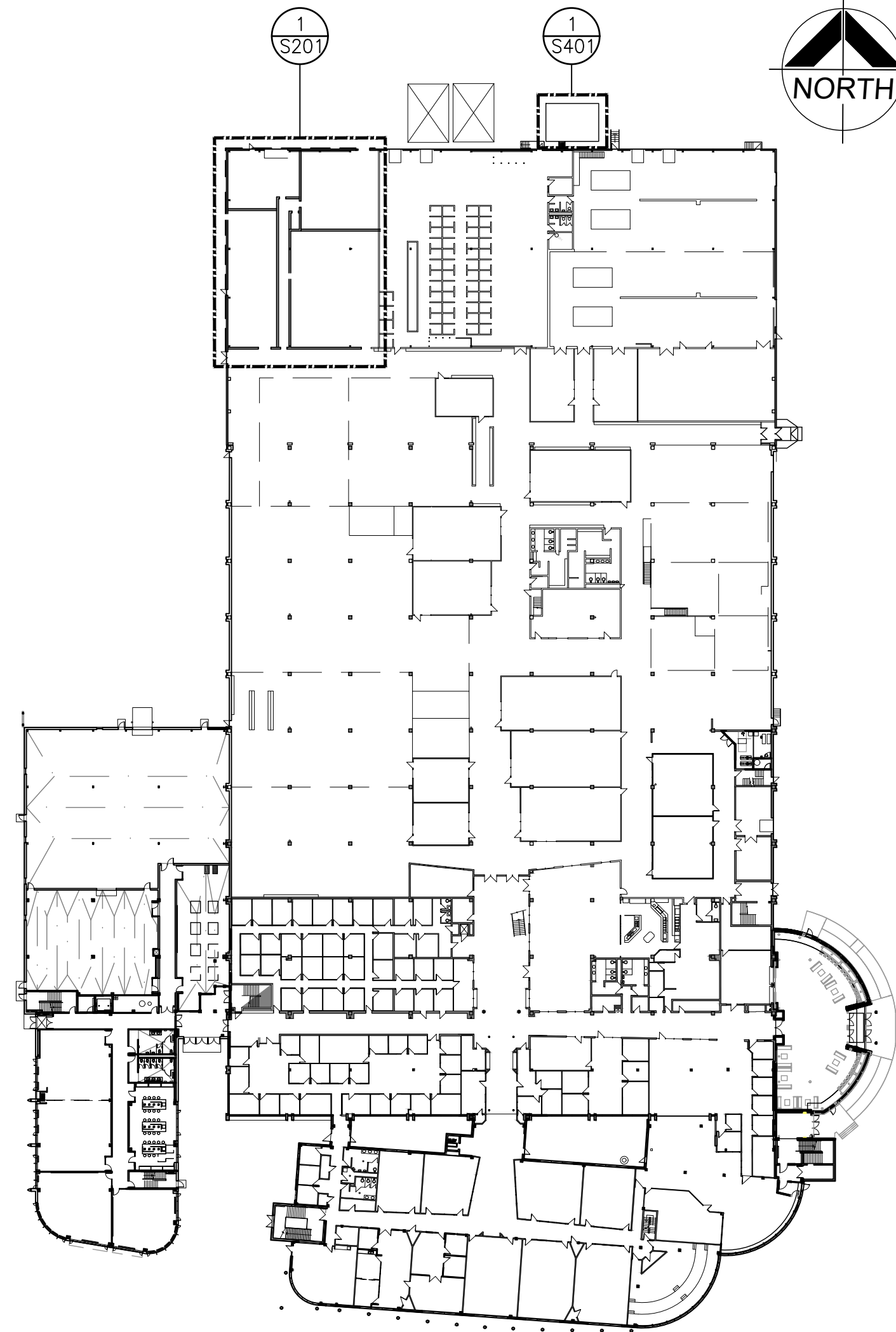
- ALL PAINTING SHALL BE IN ACCORDANCE WITH THE MASTER PAINTERS INSTITUTE (MPI) ARCHITECTURAL SPECIFICATION MANUAL.
- PAINT MATERIALS AND MANUFACTURERS LISTED IN LATEST EDITION OF MPI APPROVED PRODUCTS LIST (APL) ARE ACCEPTABLE FOR USE ON THIS PROJECT.
- PROVIDE PAINT PRODUCTS MEETING MPI "ENVIRONMENTALLY FRIENDLY" E2 OR E3 RATINGS BASED ON VOC (EPA METHOD 24) CONTENT LEVELS.
- STORE ALL PAINT MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINISTRY OF LABOUR.
- CLEAN AND PREPARE ALL SURFACES PRIOR TO PAINTING IN ACCORDANCE WITH MPI AND PAINT MANUFACTURERS INSTRUCTIONS.
- PAINT ALL NEW MATERIALS AND SURFACES
- PAINT SCHEDULE:
7.1. DOORS: MATCH METAL SIDING COLOUR.
- STANDARD OF ACCEPTANCE:
8.1. WALLS/DOORS: NO DEFECTS VISIBLE FROM A DISTANCE OF 1000 MM AT 90 DEGREES TO SURFACE.
8.2. FINAL COAT TO EXHIBIT UNIFORMITY OF COLOUR AND UNIFORMITY OF SHEEN ACROSS FULL SURFACE AREA.
- DELIVER EXTRA MATERIALS FROM SAME PRODUCTION RUN AS PRODUCTS INSTALLED. PACKAGE PRODUCTS WITH PROTECTIVE COVERING AND IDENTIFY WITH DESCRIPTIVE LABELS.
9.1. QUANTITY: PROVIDE ONE FOUR LITE CAN OF EACH TYPE AND COLOUR OF PRIMER AND FINISH PAINT COATING. IDENTIFY COLOUR AND PAINT TYPE IN RELATION TO ESTABLISHED COLOUR SCHEDULE AND FINISH SYSTEM.
- EXTERIOR PAINTING SYSTEMS
10.1. STEEL DOORS, FRAMES AND METAL FABRICATIONS: EXT 5.10 - ALKYD GS SEMI-GLOSS FINISH OVER ALYD PRIMER.
- ALL OTHER SURFACES NOT NOTED ABOVE: HIGH PERFORMANCE FINISH SUITABLE FOR COMMERCIAL AND INSTITUTIONAL ENVIRONMENT AND IN ACCORDANCE WITH MPI PAINTING MANUAL.

HOLLOW METAL DOORS AND FRAMES

- DOORS: 16 GAUGE, WIPE COAT AND GALVANIZED STEEL FACE SKIN, STEEL STIFFENED WITH FIBERGLASS CORE, CONTINUOUSLY WELDED SEAMS AND HINGE REINFORCEMENT. PERFORMANCE REQUIREMENTS TO MATCH S.W. FLEMING LTD H-SERIES DOOR PROPERTIES.
- FRAMES: 16 GAUGE PRESSED STEEL, WIPE COAT GALVANIZED, FORMED TO PROFILES SHOWN.
- FRAME ANCHORS: TO SUIT, MIN 18 GAUGE GALV STEEL C/W HARDWARE. PROVIDE SIX (6) JAMB ANCHORS AND TWO (2) BASE ANCHORS FOR EACH FRAME
- PRIMER: TO COSB 1-GP-181
- WELDING: TO CSA W59
- EXTERIOR DOORS SHALL BE FITTED WITH STEEL TOP AND BOTTOM CAPS
- FIT INTERIOR FRAMES WITH RUBBER BUMPERS, GLYN JOHNSON G164
- BLANK, MORTICE, REINFORCE, DRILL, AND TAP DOORS AND FRAMES TO RECEIVE TEMPLATED HARDWARE AS REQUIRED.
- 16 GAUGE GALVANIZED STEEL LOUVRES WITH INTEGRAL FRAMES AND BUG SCREENS.
- PROVIDE DOOR GRILLES WITH STAINLESS STEEL TAMPERPROOF SCREWS.

GENERAL DEMO NOTES

- SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
- ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
- PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF.
- COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
- PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
- NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
- PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASSES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
- MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
- REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.
- DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
- SAWCUT, BREAK OUT AND MAKE GOOD ALL EXISTING FLOOR SLABS WHERE REQUIRED TO INSTALL NEW UNDERGROUND CONDUITS AND OTHER BURIED SERVICES AS REQUIRED TO COMPLETE THE PROJECT.
- MAINTAIN EXISTING FIRE RATINGS.
- REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE. ALL HARDWARE TO BE TURNED OVER TO THE OWNER.
- REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
- CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
- DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- DISPOSE OF MATERIALS OFF SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
- PATCH, REPAIR, MAKE GOOD AND PAINT WALL WHERE WALLS AND HEATERS HAVE BEEN REMOVED.
- NEW CONDUIT IN THE VESTIBULE TO THE PUSH BUTTON ACTUATORS SHALL BE WALL (SURFACE) MOUNTED.
- ALL ELECTRICAL FOR THE NEW PUSH BUTTONS AND ELECTRIC STRIKES SHALL BE COMPLETED TO ESA STANDARDS AND TERMINATED AT THE CLOSEST PANEL.
- ALL NEW HARDWARE SHALL BE SUITABLE COMMERCIAL GRADE COMPARABLE TO EXISTING FACILITY HARDWARE.
- POWER OPERATORS SHALL BE ASSA ABLOY SW2001 WITH CAMDEN COMPONENTS OR APPROVED EQUAL.



1 KEY PLAN
S101 1:750

NAME OF CONSULTANT : BARRY BRYAN ASSOCIATES CERTIFICATE OF PRACTICE NUMBER : 5192 250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA. L1N 0G5 TEL. : (905) - 666 - 5252 (Toronto) (905) - 427 - 4495 FAX : (905) - 666 - 5256		NAME OF PROJECT : DURHAM COLLEGE WELDING SHOP EXPANSION	
LOCATION OF PROJECT : 1610 CHAMPLAIN AVENUE WHITBY, ON		OBC Reference	
DATE : MAY 2026			
Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building			
11.00 Building Code Version:	O_Reg_163/24	Last Amendment:	O_Reg_447/24
11.01 Project Type:	<input type="checkbox"/> Addition <input type="checkbox"/> Change of use <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation		[A] 1.3.3.B
Description CLASSROOM CONVERSION FOR WELD SHOP PROGRAM			
11.02 Major Occupancy Classification:	Occupancy: A2 Use: ASSEMBLY CLASSROOM		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		11.2, 3.2.2.5 to 3.2.2.8 and 2.2.1
11.04 Building Area (m ²):	Description: BUILDING AREA Existing: 15050+ New: - Total: 15050		[A] 1.4.1.2., 11.2 and 11.3
11.05 Building Height:	2 Stores above grade 6 (m) Above grade		[A] 1.4.1.2, 3.2.1.1, 2.2.2 and 11.3
11.06 Number of streets/ fire fighter access:	4 street(s) (FULL FIRE ROUTE)		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 type="checkbox"/> Large <input checked="" 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: 4 Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster		11.0.1.2, 11.2.1.1 T11.2.1.1A 11.2.1.1B to N, 4.1.2.1(3), 2.3.1 & 5.2.2.1(2)
11.09 Renovation Type:	<input type="checkbox"/> Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation		11.3.3.1 & 11.3.3.2
11.10 Occupant Load:	Floor Level/ Area Occupancy Type Based On Occup. Load (persons)		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 Occupant Load OBC Reference WC's Required WC's Provided		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) B.F. WC's Required B.F. WC's Provided Universal Washrooms Required Universal Washrooms Provided		Tables 3.8.2.3.A and 3.8.2.3.B
11.12 Barrier-free Design:	<input type="checkbox"/> Yes <input type="checkbox"/> No Explanation: NOT APPLICABLE TO LIMITS Number: Explanation of RENOVATION		11.3.1.2, 11.3.2, 11.3.3.2
11.13 Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No By increase in occupant load: <input checked="" type="checkbox"/> No By change of major occupancy: <input checked="" type="checkbox"/> No Plumbing: <input checked="" type="checkbox"/> No Sewage - system: <input checked="" type="checkbox"/> No Extension of buildings of combustible construction: <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <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 By increase in occupant load: <input checked="" type="checkbox"/> No By change of major occupancy: <input checked="" type="checkbox"/> No Plumbing: <input checked="" type="checkbox"/> No Sewage - system: <input checked="" type="checkbox"/> No Extension of buildings of Combustible Construction: <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <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:	N/A		
11.17 Notes:	THE PROJECT INVOLVES MODIFYING ON EXISTING LAB SPACE TO ACCOMMODATE WELDING SHOP CLASSROOM EXPANSION.		

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DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	MARCH 16, 2026	BBA
2	ISSUED FOR PERMIT & TENDER	APRIL 20, 2026	BBA
3	REISSUED FOR PERMIT & TENDER	MAY 13, 2026	BBA



PROJECT:
DURHAM COLLEGE
WELDING SHOP
EXPANSION

1610 CHAMPLAIN AVENUE
WHITBY, ONTARIO, L1N 6A7
DURHAM COLLEGE

DRAWING:
GENERAL NOTES
& KEY PLAN

DESIGN BY: DM
DRAWN BY: KJ
CHECKED BY: DM
DATE: MAY, 2026
SCALE: 1:750



PROJECT NO: 26041
DRAWING NO: S101

26041 S101

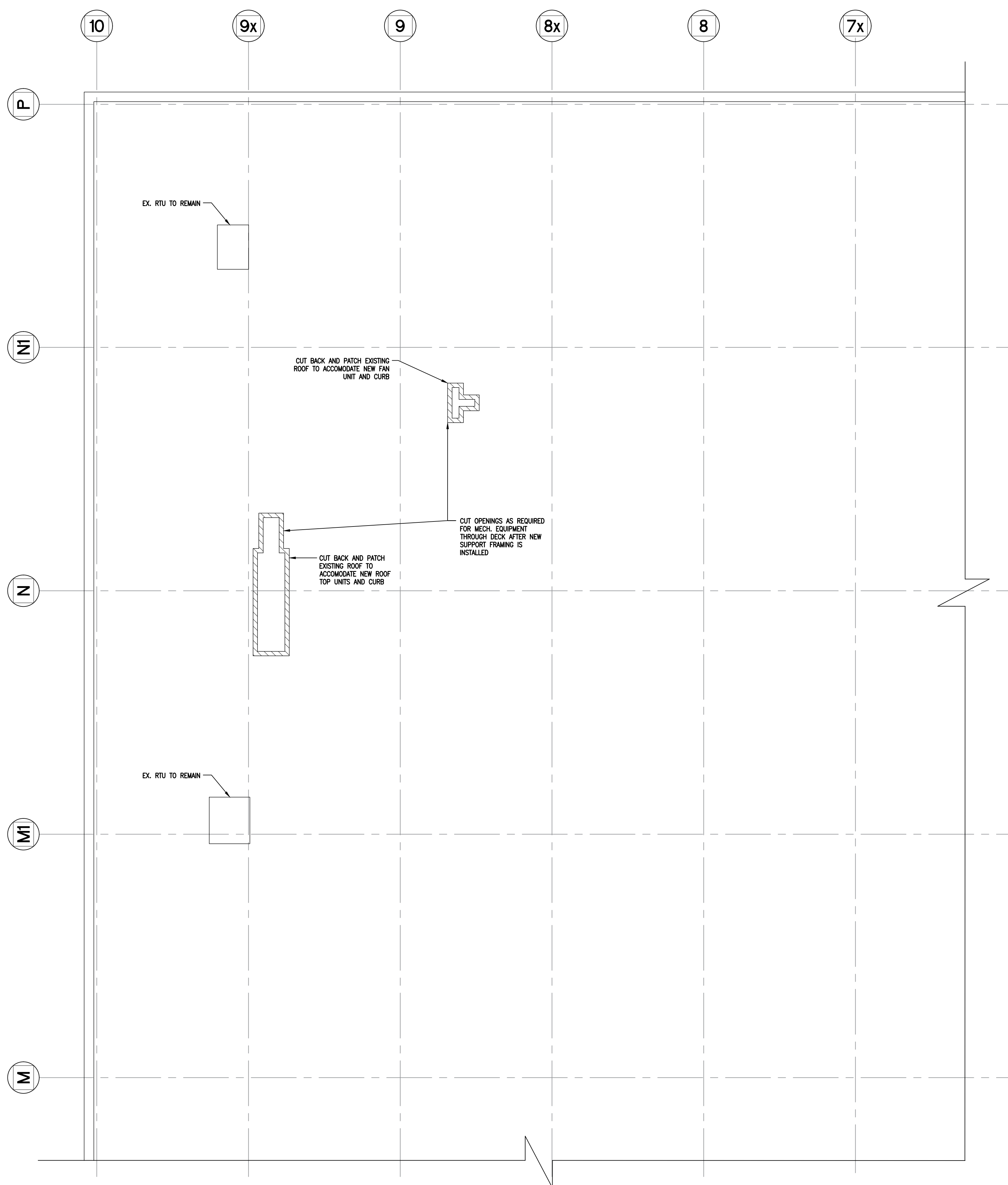
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1	ISSUED FOR REVIEW	MARCH 16, 2026	BBA
2	ISSUED FOR PERMIT & TENDER	APRIL 20, 2026	BBA
3	REISSUED FOR PERMIT & TENDER	MAY 13, 2026	BBA



GENERAL

- CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE LATEST EDITION.
- COMPLY WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT / REGULATIONS FOR CONSTRUCTION PROJECTS.
- EXISTING BUILDING ROOF CONSTRUCTION IS BASED ON INFORMATION SUPPLIED BY REPORT AND EXISTING DRAWINGS AND IS TO BE VERIFIED BY THE CONTRACTOR.
- THIS WORK MUST BE PERFORMED ADJACENT TO AND AROUND THE GENERAL PUBLIC AND SCHOOL BOARD WORKERS. EXERCISE EXTREME CAUTION AND PROVIDE ALL NECESSARY PROTECTION AS REQUIRED AND APPROVED BY THE OWNER.
- FENCE OFF WASTE DISPOSAL BINS AND STORAGE AND LAYDOWN AREAS IN LOCATIONS AS APPROVED BY OWNER. THE EXISTING PARKING AREA MAY BE USED AS APPROVED FOR CONTRACTOR'S LAYDOWN OR MATERIAL DISPOSAL AREAS. PROVIDE ALL HOISTING EQUIPMENT AND ASSOCIATED PERMITS NECESSARY TO ACCESS ROOF AREAS FOR DELIVERY AND REMOVAL OF MATERIALS.
- COMPLY WITH OWNER'S SECURITY REQUIREMENTS FOR ON-SITE MANAGEMENT OF TOOLS AND EQUIPMENT. DO NOT PERMIT ANY TOOLS OR EQUIPMENT TO BE LEFT ON SITE DURING OFF-HOURS EXCEPT AS PERMITTED BY OWNER.
- PROTECT THE EXISTING STRUCTURE TO PREVENT DAMAGE TO IT, TO ADJACENT PARKING AREAS, OR TO THE SURROUNDING BUILDINGS, ROADWAYS AND PUBLIC AREAS. PROVIDE ALL PUBLIC WALKWAY PROTECTION AS REQUIRED BY ALL CITY ORDINANCES. BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING BUILDING, GROUNDS AND EQUIPMENT AND REPAIR SAME TO SATISFACTION OF THE OWNER AND CONSULTANT.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- FILE NOTICE OF PROJECT WITH MINISTRY OF LABOUR PRIOR TO COMMENCEMENT.
- INSTALL PROPER GARBAGE CHUTES AND WASTE BINS AND PROVIDE PROTECTION FOR THE EXISTING STRUCTURE. PLACEMENT OF BIN(S) AND CHUTES TO BE APPROVED BY OWNER.
- DISPOSE OF ALL REMOVED MATERIALS AND ROOFING DEBRIS OFF SITE AT END OF EACH WORK DAY.
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO ELECTRICAL CODE.
- SCHEDULE ALL WORK WITH THE OWNER.

DEMOLITION / REMOVALS

- DISPOSE OF MATERIALS IN LEGAL LANDFILL OR RECYCLING SITES IN ACCORDANCE WITH LOCAL MUNICIPAL REGULATIONS.
- MAINTAIN ROOFS WATERTIGHT AND SECURE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDE TEMPORARY WEATHERPROOF AND VANDAL RESISTANT PROTECTION AS REQUIRED OVER ALL ROOF OPENINGS EXPOSED BY REMOVALS. LEAVE ROOF IN WEATHER TIGHT CONDITION AT THE END OF EACH WORK DAY.
- PROVIDE PROTECTION BELOW AND AROUND THE PENTHOUSE AND BARRICADE AREA UNDER REMOVALS.
- REPORT ALL DAMAGE OR STRUCTURAL DEFICIENCIES TO THE CONSULTANT. IF DOUBTFUL CONDITION FOUND, DO NOT PROCEED UNTIL WRITTEN AUTHORITY HAS BEEN RECEIVED FROM THE CONSULTANT.
- ENSURE CONTINUATION OF ALL SERVICES INCLUDING BUT NOT LIMITED TO FIRE PROTECTION, SECURITY AND COMMUNICATION SERVICES. CONTACT OWNER AND PROPER AUTHORITIES AND PROVIDE FIREWATCH AND SECURITY WATCH IF DISRUPTED.

ROOFING NOTES

- PROTECT ALL EXISTING SERVICES AND EQUIPMENT .
- REPLACE ROOF WITH NEW TO MATCH EXISTING. FOR PRICING ASSUME (4) PLY BUILT UP ROOF.
- DISCONNECT, REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT, INCLUDING ELECTRICAL LINES, ON ROOF AS NECESSARY TO COMPLETE ALL NEW ROOF AND FLASHING INSTALLATIONS. DISCONNECTION AND REINSTALLATION SHALL BE BY A QUALIFIED AND LICENSED ELECTRICIAN. ALL REMOVALS AND SHUTDOWNS SHALL BE COORDINATED WITH BOARD. ALL MECHANICAL UNITS, BREATHERS, VENTS, GAS LINES, ROOF CURBS, AND ALL ASSOCIATED ROOF EQUIPMENT IS TO BE REMOVED/REPLACED AS NECESSARY TO COMPLETE THE WORK. COORDINATE WORK WITH TDSB MECHANICAL REPRESENTATIVE. ALLOW FOR INCREASED INSULATION DEPTH OF ROOF FOR REINSTALLATION/ REPLACEMENT OF ALL MECHANICAL UNITS.

1 ENLARGED ROOF DEMOLITION PLAN
S203 1:75



PROJECT:
DURHAM COLLEGE
WELDING SHOP
EXPANSION

1610 CHAMPLAIN AVENUE
WHITBY, ONTARIO, L1N 6A7
DURHAM COLLEGE

DRAWING:
ENLARGED ROOF
DEMOLITION PLAN

DESIGN BY: DM
DRAWN BY: KJ
CHECKED BY: DM
DATE: MAY, 2026
SCALE: AS NOTED



PROJECT NO: 26041
DRAWING NO: S203

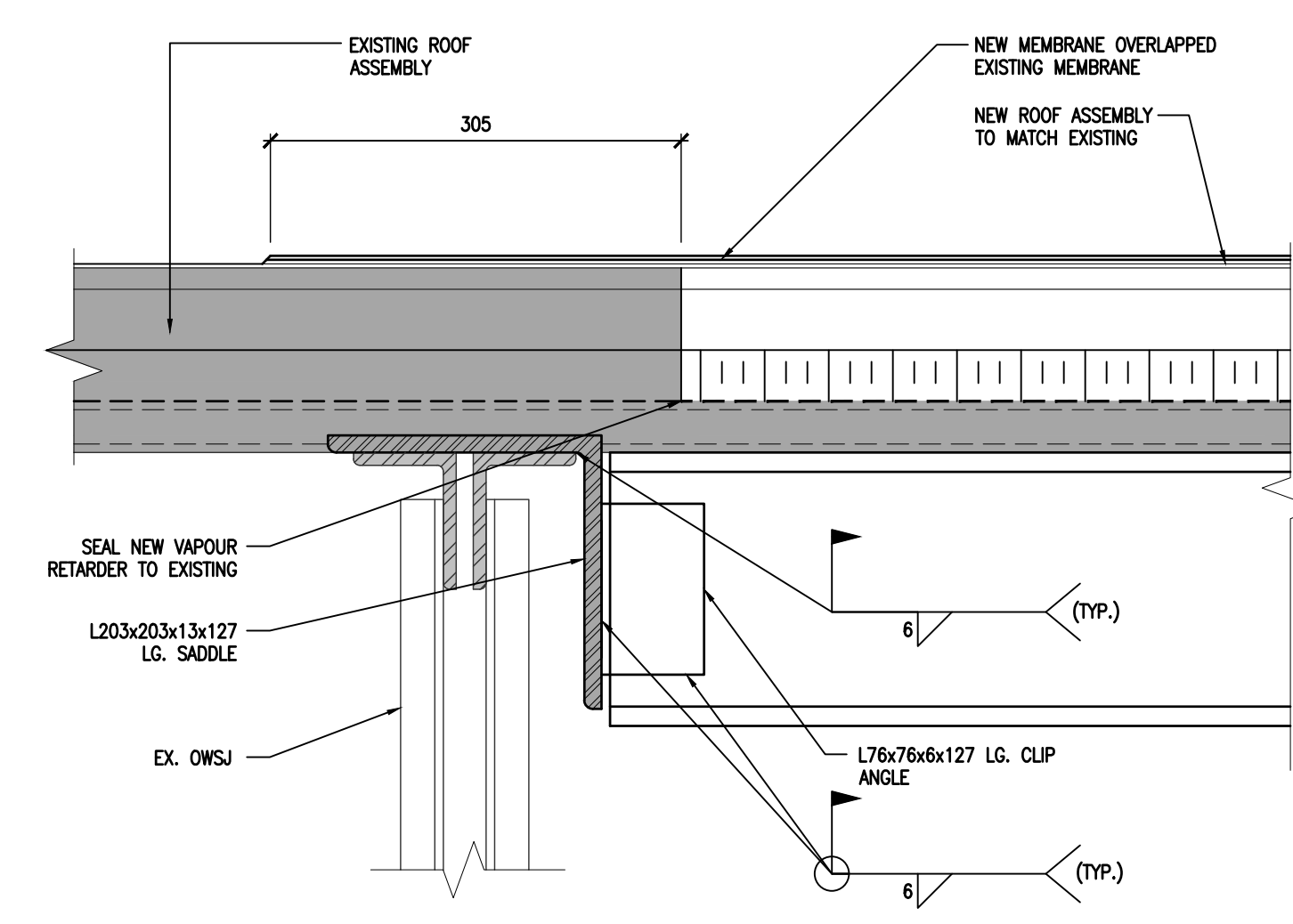
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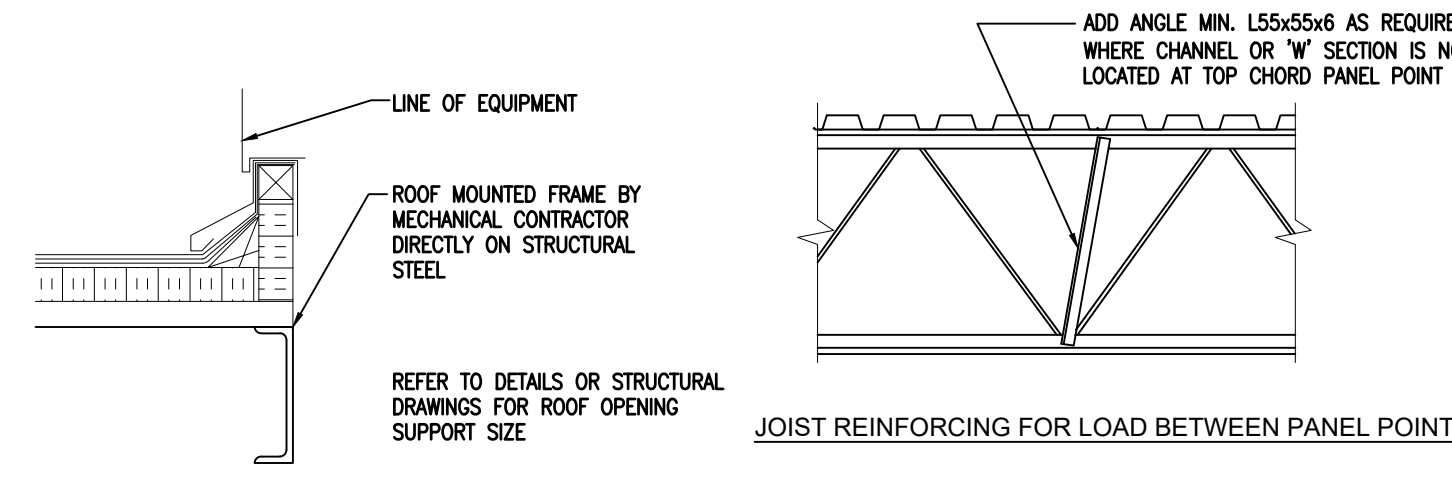
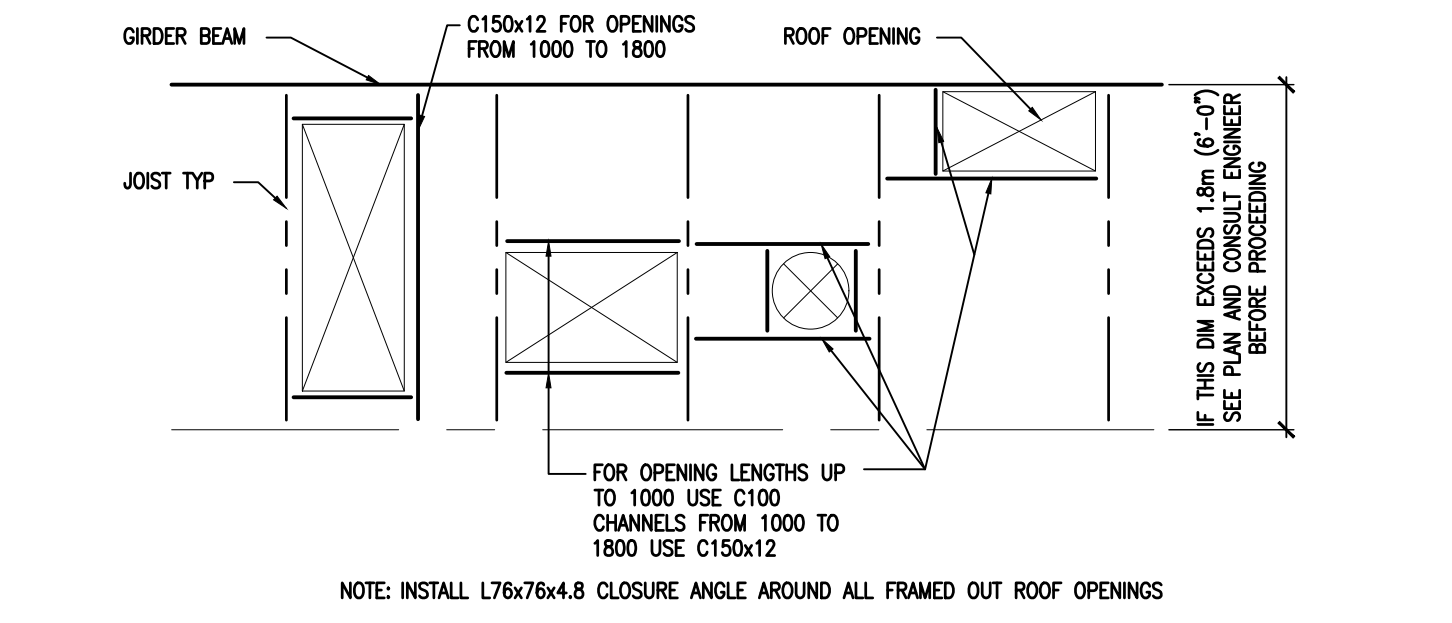
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NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	MARCH 16, 2026	BBA
2	ISSUED FOR PERMIT & TENDER	APRIL 20, 2026	BBA
3	REISSUED FOR PERMIT & TENDER	MAY 13, 2026	BBA

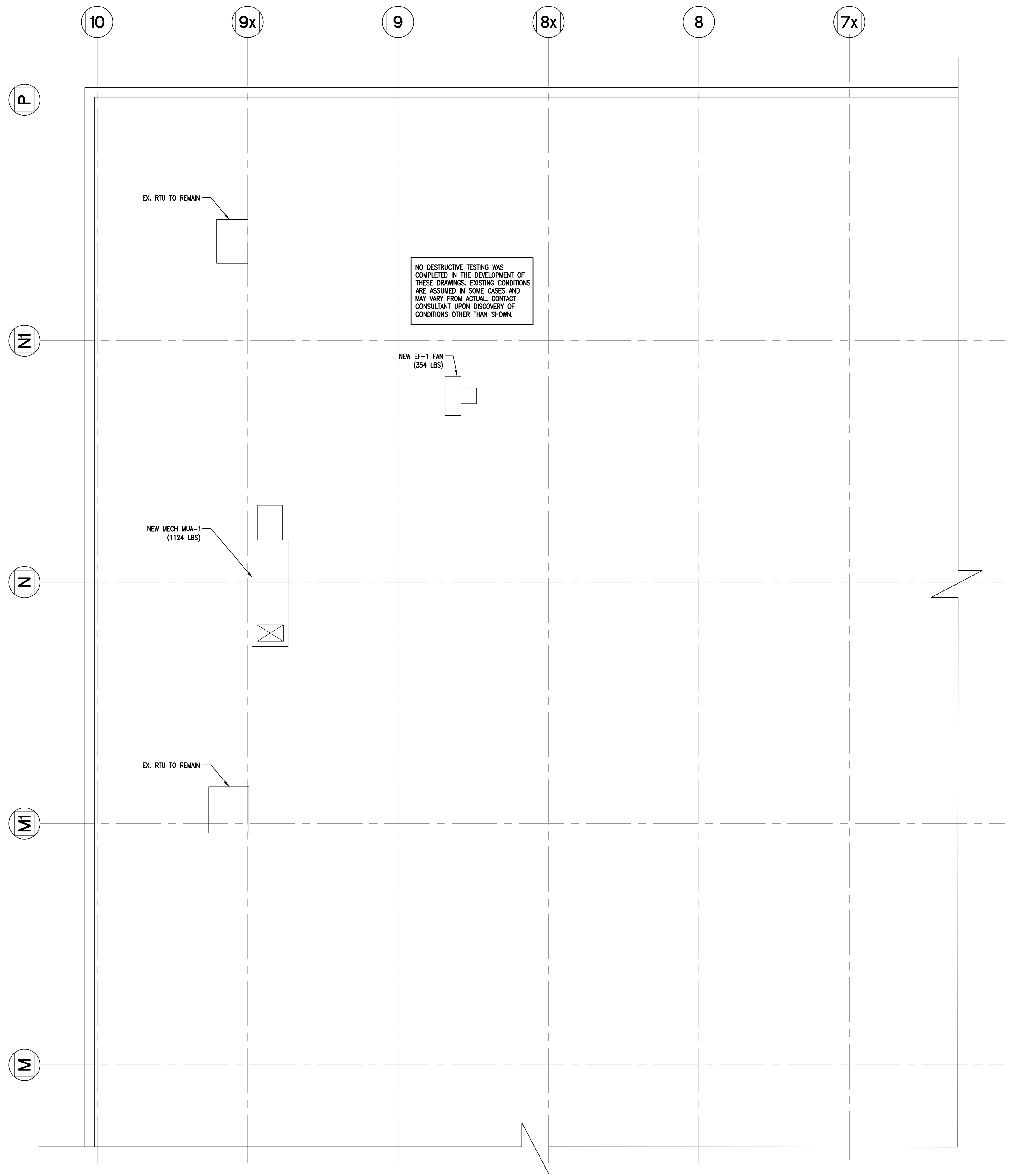


3 SECTION DETAIL
S204 1:5



- TOP OF ALL TRIMMING STEEL TO BE AT THE UNDERSIDE OF STEEL ROOF DECK, UNLESS OTHERWISE NOTED.
- LOCATION OF ALL MECHANICAL UNITS AND OPENING THROUGH ROOF IS BASED ON INFORMATION SUPPLIED BY MECHANICAL DRAWINGS. THE STRUCTURAL STEEL CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR. OWSJ MUST BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS. IF LOCATION OR DETAILS VARY FROM THOSE SHOWN THE STRUCTURAL ENGINEER MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
- THE STRUCTURAL STEEL CONTRACTOR SHOULD SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND OR CONTRACTOR FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.

2 FRAMING FOR ROOF OPENING
S204 1:20



1 ENLARGED ROOF PLAN
S204 1:75



PROJECT:
DURHAM COLLEGE
WELDING SHOP
EXPANSION

1610 CHAMPLAIN AVENUE
WHITBY, ONTARIO, L1N 6A7
DURHAM COLLEGE

DRAWING:
ENLARGED ROOF PLAN

DESIGN BY: DM
DRAWN BY: KJ
CHECKED BY: DM
DATE: MAY, 2026
SCALE: AS NOTED



PROJECT NO: 26041
DRAWING NO: S204

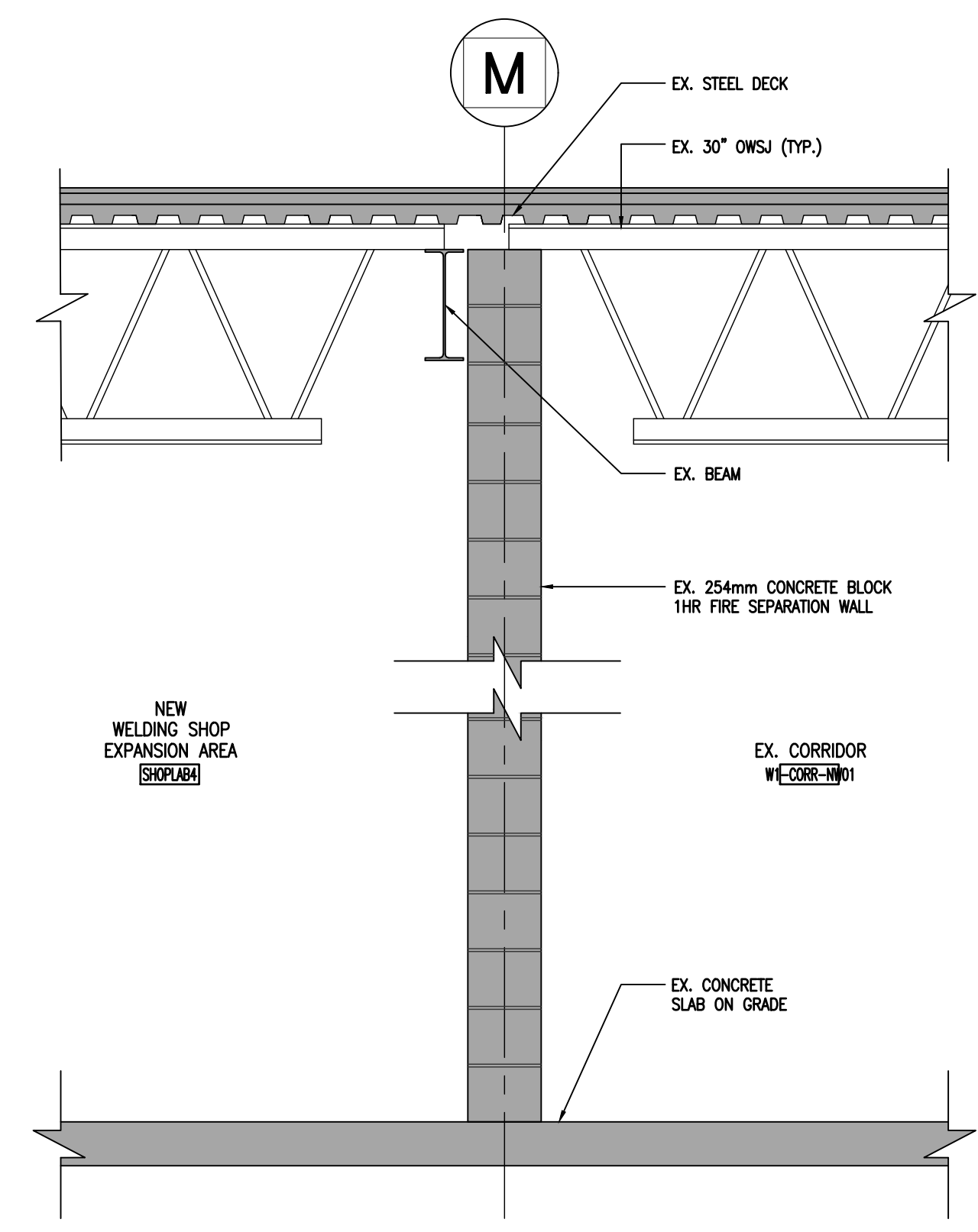
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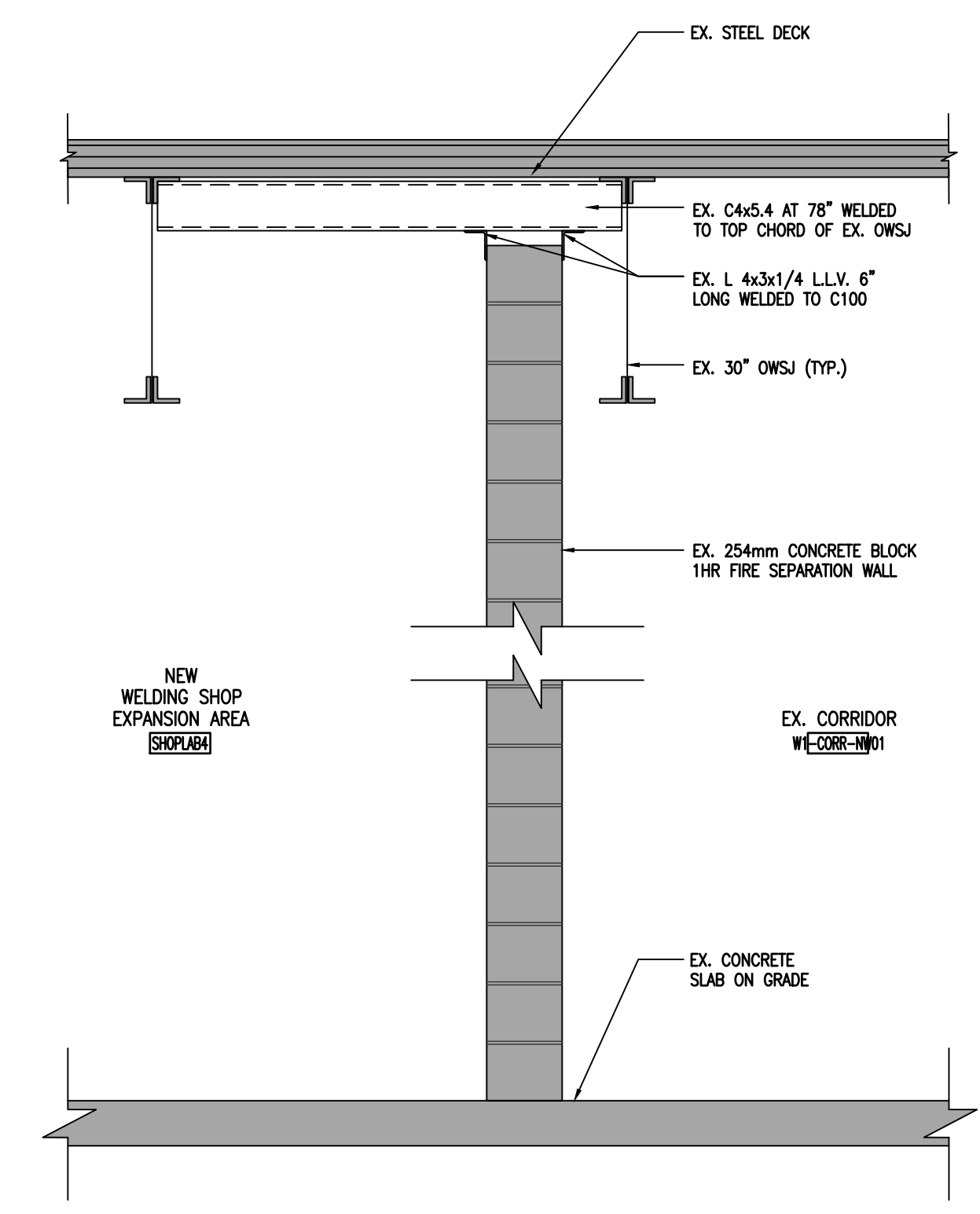
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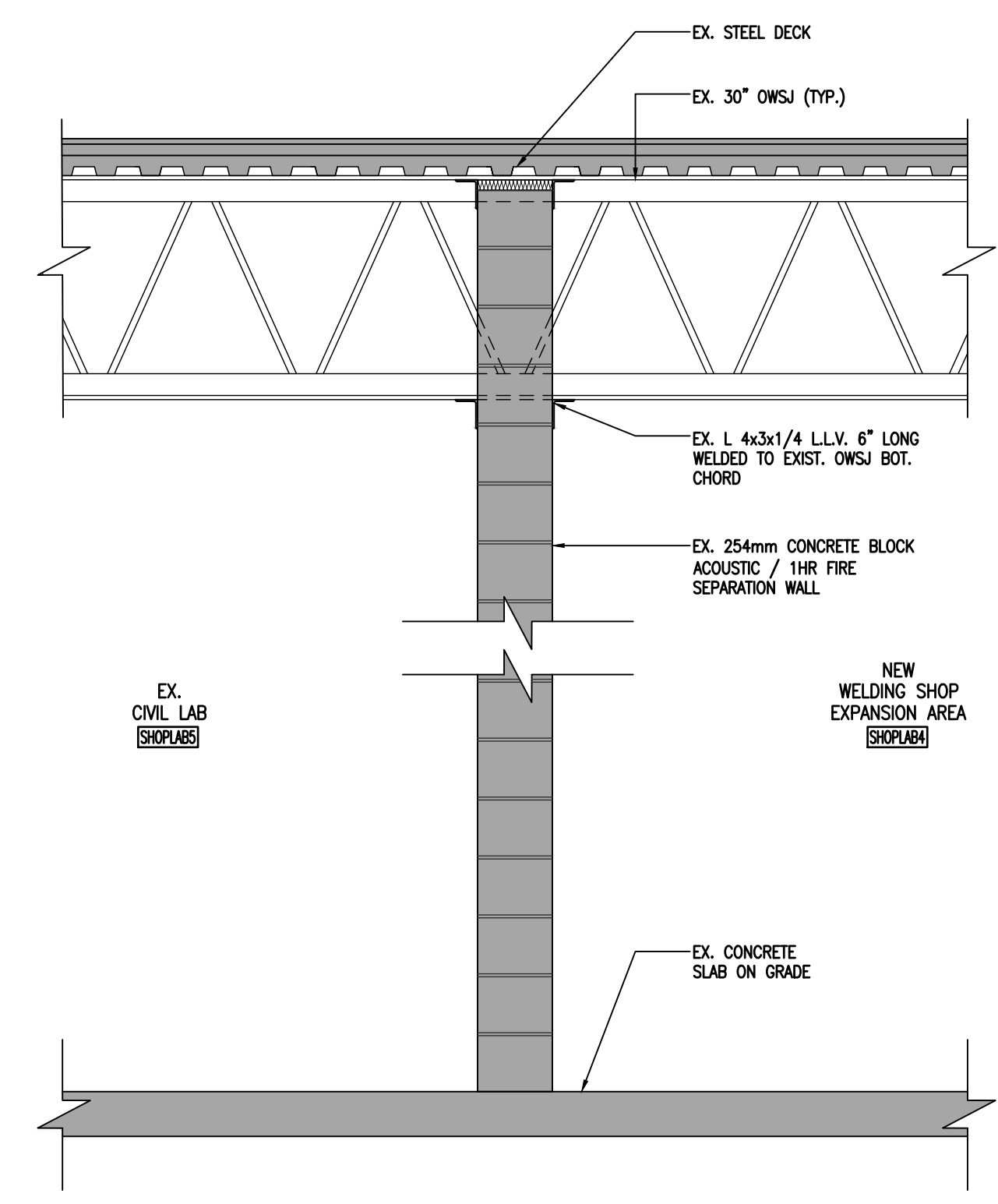
NO.	ISSUES/ REVISIONS	DATE	BY
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2	ISSUED FOR PERMIT & TENDER	APRIL 20, 2026	BBA
3	REISSUED FOR PERMIT & TENDER	MAY 13, 2026	BBA



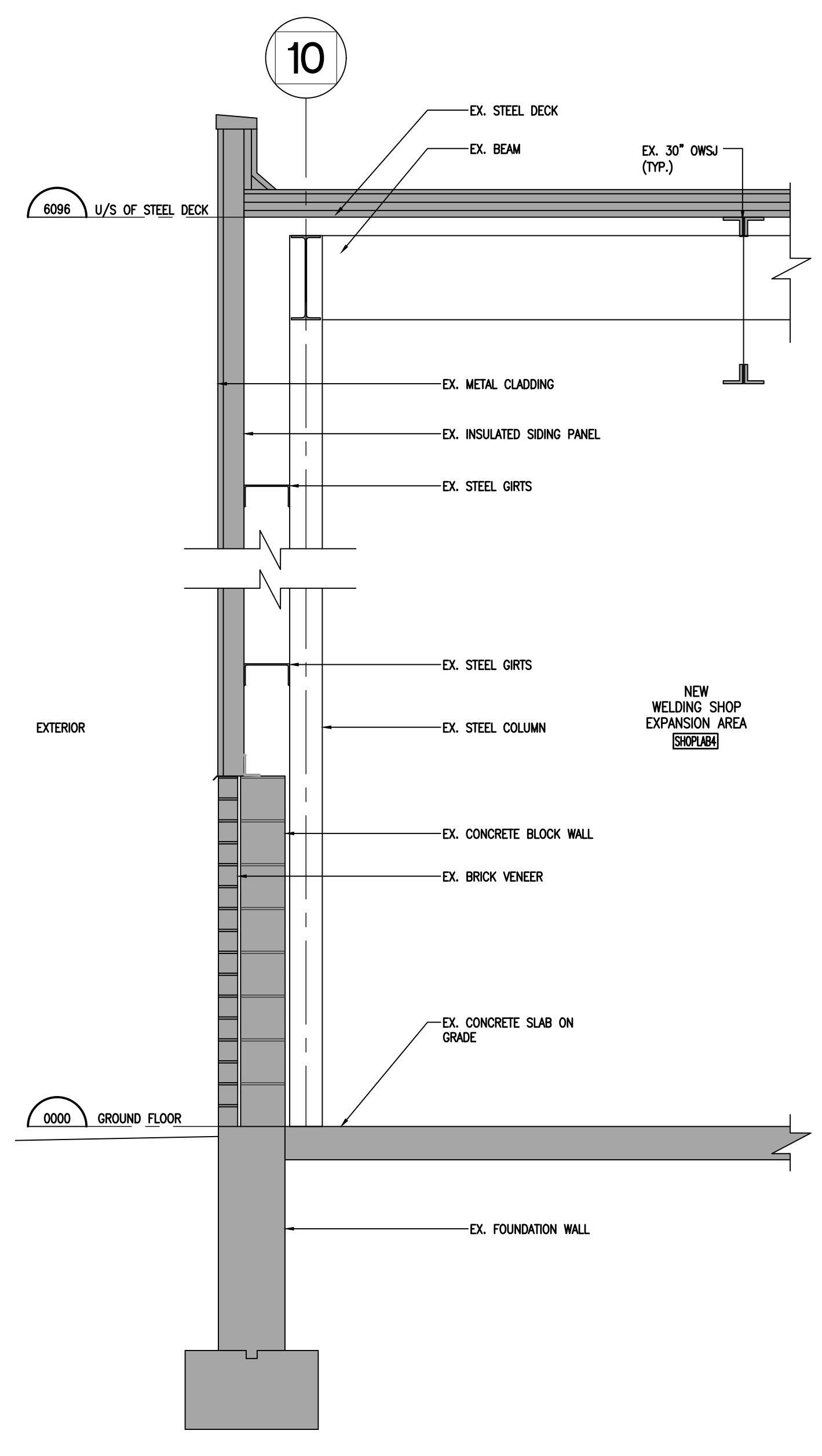
4 WALL SECTION
S301 1:20



3 WALL SECTION W/ LATERAL SUPPORT
S301 1:20



2 WALL SECTION
S301 1:20



1 WALL SECTION
S301 1:20



PROJECT:
**DURHAM COLLEGE
WELDING SHOP
EXPANSION**

1610 CHAMPLAIN AVENUE
WHITBY, ONTARIO, L1N 6A7
DURHAM COLLEGE

DRAWING:
WALL SECTIONS

DESIGN BY: DM
DRAWN BY: KJ
CHECKED BY: DM
DATE: MAY, 2026
SCALE: AS NOTED

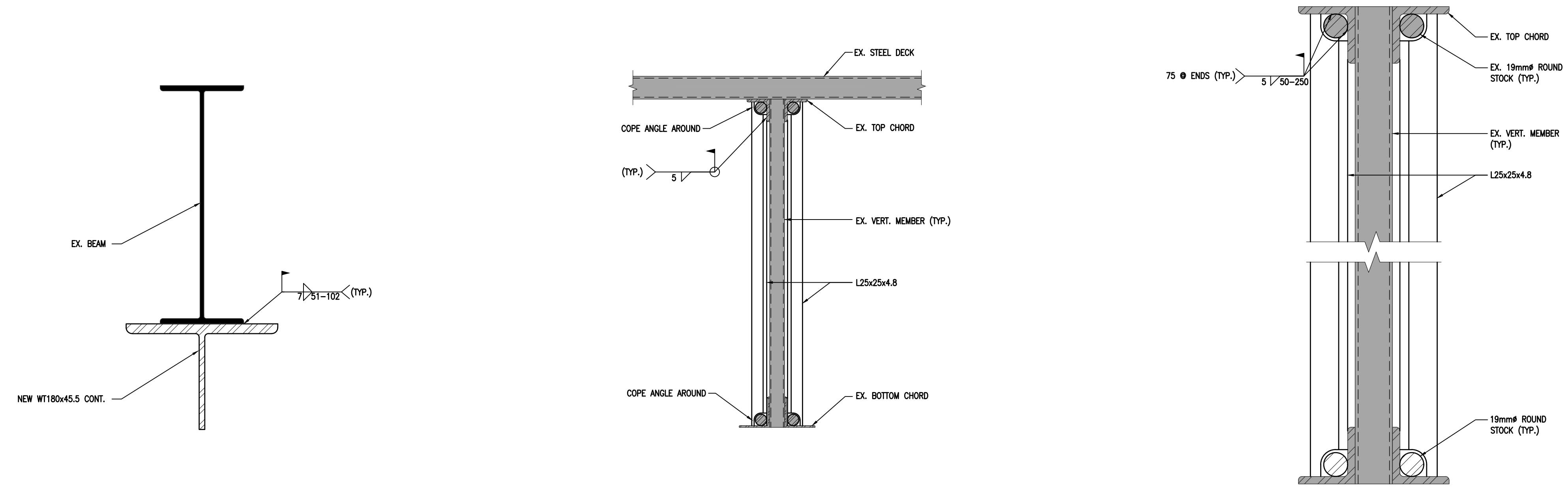


PROJECT NO: **26041** DRAWING NO: **S301**

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2	ISSUED FOR PERMIT & TENDER	APRIL 20, 2026	BBA
3	REISSUED FOR PERMIT & TENDER	MAY 13, 2026	BBA



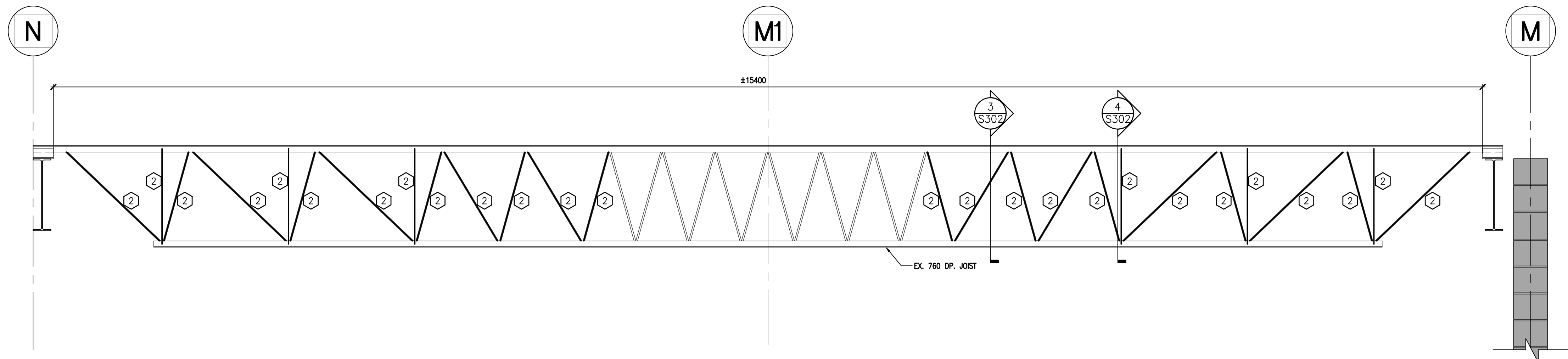
5 BEAM REINFORCING SECTION RB1
S302 1:5

4 OWSJ WEB REINFORCING DETAIL
S302 1:5

3 OWSJ TOP CHORD REINFORCING DETAIL
S302 1:2

JOIST REINFORCING LEGEND (RJ1)		
MARK	REINFORCING	DETAIL
2	(2)-L25x25x4.8	4/S302

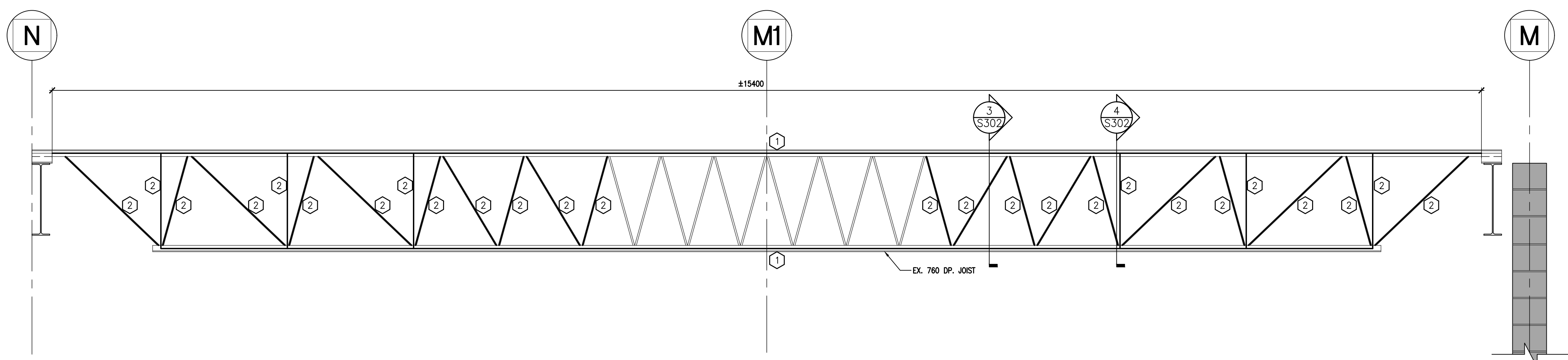
NOTES:
1. ALL EXISTING BRIDGING SHALL BE REMOVED AND REINSTATED TO ACCOMMODATE THE NEW REINFORCING WORK.
2. ALL WELDS SHALL BE PRIME PAINTED.
3. ALL WELDS SHALL BE 5mm FILLET WELD EACH SIDE U.N.O. (PARALLEL TO FRAMING CHORD)



2 JOIST REINFORCING ELEVATION RJ2
S303 1:20

JOIST REINFORCING LEGEND (RJ1)		
MARK	REINFORCING	DETAIL
1	19mm# ROUND STOCK FULL	3/S302
2	(2)-L25x25x4.8	4/S302

NOTES:
1. ALL EXISTING BRIDGING SHALL BE REMOVED AND REINSTATED TO ACCOMMODATE THE NEW REINFORCING WORK.
2. ALL WELDS SHALL BE PRIME PAINTED.
3. ALL WELDS SHALL BE 5mm FILLET WELD EACH SIDE U.N.O. (PARALLEL TO FRAMING CHORD)



1 JOIST REINFORCING ELEVATION RJ1
S303 1:20



PROJECT:
DURHAM COLLEGE
WELDING SHOP
EXPANSION

1610 CHAMPLAIN AVENUE
WHITBY, ONTARIO, L1N 6A7
DURHAM COLLEGE

DRAWING:
BEAM & OWSJ
REINFORCING SECTIONS
& JOIST REINFORCING
ELEVATION

DESIGN BY: DM
DRAWN BY: KJ
CHECKED BY: DM
DATE: MAY, 2026
SCALE: AS NOTED

SEAL:
LICENSED PROFESSIONAL ENGINEER
MAY 13, 2026
D.P. McLAUGHLIN
100181883
PROVINCE OF ONTARIO

PROJECT NO: 26041
DRAWING NO: S302

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2	ISSUED FOR PERMIT & TENDER	APRIL 29, 2026	BBA
3	REISSUED FOR PERMIT & TENDER	MAY 13, 2026	BBA

GENERAL DOOR NOTES

- A. GLASS PANELS IN DOORS TO COMPLY WITH BARRIER FREE VISIBILITY REQUIREMENTS.
- B. REMOVE AND REINSTALL (MISC. ELECTRONIC ATTACHMENTS) AS PER EXISTING DOOR LOCATIONS. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- C. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES AS REQUIRED FOR NEW WORK.
- D. ALL DOORS IN FIRE SEPARATION LOCATIONS SHALL HAVE LATCHING DEVICE.
- E. PRESSED STEEL FRAME DEPTHS SHALL BE 146MM UNLESS OTHERWISE NOTED.
- F. AT ALL EXISTING LINTELS, REMOVE ALL RUSTS TO BE REPAINTED TO MATCH EXISTING.

REMARKS

1. SITE VERIFY ALL OPENING DIMENSIONS.
2. ALL EXTERIOR DOORS SHALL BE INSULATED
3. ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPPING.
4. ALL FRAMES SHALL BE SEALED.
5. ALL EXTERIOR FRAMES SHALL BE THERMALLY BROKEN.
6. ALL EXTERIOR HM FRAMES SHALL BE 172mm.
7. ALL EXTERIOR HM FRAMES SHALL BE INSULATED.
8. DOOR MATERIAL FINISH TO MATCH EXISTING GLAZING FRAMES WHERE BEING INSTALLED WITHIN EXISTING SYSTEM.

GLAZING LEGEND

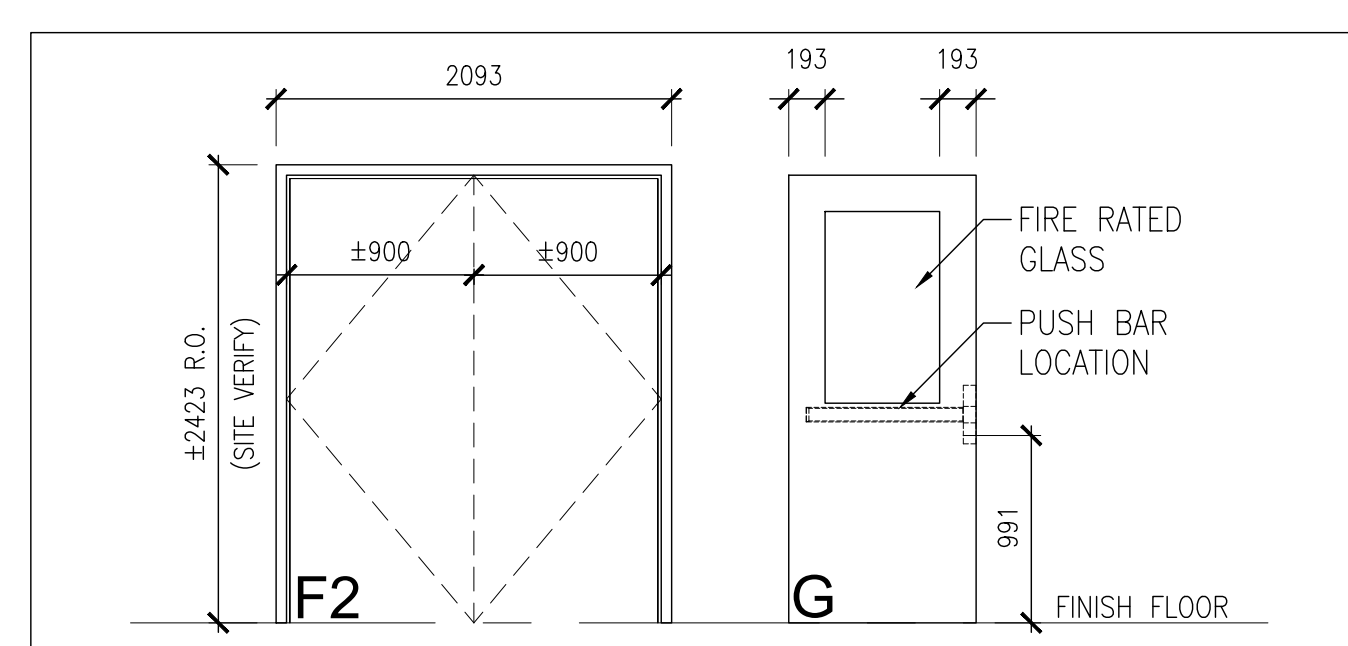
- GL1 SINGLE GLAZED, TEMPERED GLASS
- GL2 25mm SEALED, DOUBLE GLAZED UNITS TEMPERED GLASS (CLEAR)
- FRG FIRE RATED GLASS

FINISH ABBREVIATION LEGEND

ALUM	ALUMINIUM
ANOD	ANODIZED
CB	CONCRETE BLOCK
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CT	CERAMIC TILE
EP	EPOXY
EXIST	EXISTING
EXP	EXPOSED
FRG	FIRE RATED GLASS
GL	GLASS
GB	GYPSON BOARD
GB-M	GYPSON BOARD, MOISTURE RESISTANT
HM	HOLLOW METAL
M	METAL
N	NEW
NTS	NOT TO SCALE
P	PAINT
PS	PRESSED STEEL
PREFIN	PREFINISHED
URETH	URETHANE
RB	RUBBER BASE
SC	SEALED CONCRETE
SEAL	SEALER
STL	STEEL
TG	TEMPERED GLASS

ROOM SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REV.	REMARKS
				NORTH	EAST	SOUTH	WEST			
SHOPLAB4	WELD SHOP EXPANSION			MAT. CONC	CB	CB	CB	CB	EXP	
				FIN. EP	RB	P	P	P	P	



DOOR & FRAME SCHEDULE

NO.	DOOR					FRAME				HARDWARE GROUP	FIRE RATING	DOOR HARDWARE												REMARKS		
	SIZE AND THICKNESS	TYPE	MATERIAL	FINISH	GLASS	TYPE	HEAD	JAMB	MATERIAL			FINISH	HANDLE	REVERSE HANDLE	REVERSE HANDLE	DOOR STOP	DOOR STOP	DOOR STOP	DOOR STOP	DOOR STOP	DOOR STOP	DOOR STOP	DOOR STOP		DOOR STOP	DOOR STOP
101	2-900x2200x50	G	HM	P	GL1	F2			PS	P	2	45MIN														

NOTE: NEW DOORS AND FRAMES TO BE PAINTED TO MATCH EXISTING COLORS.



PROJECT:
DURHAM COLLEGE
WELDING SHOP
EXPANSION

1610 CHAMPLAIN AVENUE
WHITBY, ONTARIO, L1N 6A7
DURHAM COLLEGE

DRAWING:

EXTERIOR ELEVATIONS

DESIGN BY: DM
DRAWN BY: KJ
CHECKED BY: DM
DATE: MAY, 2026
SCALE: N.T.S.



PROJECT NO: 26041
DRAWING NO: S901