

HUMER COLLEGE PHASE 4 BOOK STORE RENOVATION

ATA ARCHITECTS

205 HUMER COLLEGE BLVD
ETOBICOKE ON

ISSUED FOR TENDER

05/27/2022

STRUCTURAL DRAWING LIST

| SHEET NO | SHEET NAME |
|----------|--------------------------------|
| S0-00 | COVER SHEET |
| S0-01 | GENERAL NOTES |
| S1-00 | BOOK STORE EXISTING FLOOR PLAN |
| S1-01 | BOOK STORE PROPOSED FLOOR PLAN |
| S1-04 | DETAILS & SECTIONS |
| S1-05 | DETAILS & SECTIONS |
| S1-06 | DETAILS & SECTIONS |

STRUCTURAL SCOPE OF WORK

- REMOVE EXISTING NON-LOAD BEARING WALL SEE ARCH/STRUCTURAL DWG FOR EXTENT.
- REMOVE DOORS IN EXIST NON-LOAD BEARING BLOCK WALL AND REFILL DOOR OPENING AS MARKED IN ARCH/STRUCTURAL.
- REMOVE THE EXIST CONCRETE STAIRS/STEEL HANDRAILS ALONG GRID ED & EE.
- REMOVE THE EXIST CONCRETE RAMP/STEEL HANDRAIL BETWEEN GRID E11 & E10b.
- NEW DOORS OPENINGS IN EXIST BLOCK WALL SEE ARCH/STRUCTURAL DWG FOR LOCATION.
- NEW RAISED FLOOR SEE ARCH/STRUCTURAL DWG FOR EXTENT.
- NEW RAMPS SEE ARCH/STRUCTURAL DWG FOR EXTENT.
- FRAMING FOR NEW ENTRANCE CANOPY/SECURITY SCREEN OF BOOKSTORE.
- FRAMING FOR NEW DISPLAY POD SEE ARCH FOR LAYOUT.
- NEW MECH TRENCH IN SLAB ON GRADE SEE ARCH/MECH DWG FOR LAYOUT.
- FRAMING FOR DISPLAY HANGER IN BOOK STORE AREA SEE ARCH FOR LAYOUT.



REVISIONS

| NUMBER | DATE | REMARKS |
|--------|-----------|--------------------------|
| 4 | 5/27/2022 | Issued for Tender |
| 3 | 4/19/2022 | Issued for 90% CD |
| 2 | 3/24/2022 | Issued for Client Review |
| 1 | 3/3/2022 | Issued For Client Review |

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

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SEALS

PROJECT TITLE

HUMER COLLEGE PHASE 4
BOOK STORE RENOVATION
205 HUMER COLLEGE BLVD
ETOBICOKE ON

DRAWING TITLE

COVER SHEET

DRAWN BY

MNG

SCALE

1 : 1

DATE

05/27/2022

CHECKED BY

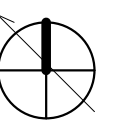
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PROJECT NUMBER

1022003.00

DRAWING NUMBER

S0-00



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GR GENERAL REQUIREMENTS

- GR-1 AS USED IN THESE GENERAL NOTES:
"DRAWINGS" MEANS THE LATEST STRUCTURAL DESIGN DRAWINGS. UON.
"SPECIFICATIONS" MEANS THE LATEST PROJECT SPECIFICATIONS. UON.
"CONTRACT DOCUMENTS" IS DEFINED AS THE DESIGN DRAWINGS AND THE SPECIFICATIONS.
"SER" IS DEFINED AS THE STRUCTURAL ENGINEER OF RECORD FOR THE STRUCTURE IN ITS FINAL CONDITION.
"DESIGN PROFESSIONALS" IS DEFINED AS THE OWNER'S ARCHITECT AND SER. "MEP" INCLUDES, BUT IS NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION.
"CONTRACTOR" IS DEFINED TO INCLUDE ANY OF THE FOLLOWING: GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS, CONSTRUCTION MANAGER AND THEIR SUBCONTRACTORS.
"DELEGATED DESIGN" MEANS A SCOPE OF WORK THAT MEETS PERFORMANCE CRITERIA ESTABLISHED IN THE CONTRACT DOCUMENTS AND IS TO BE COMPLETED BY THE CONTRACTOR'S LICENSED ENGINEER.
- GR-2 THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS AND ALL FORCES ARE IN METRIC UNITS.
- GR-3 "TT-S" REFERS TO THORNTON TOMASETTI CANADA STRUCTURAL CONSULTANT.
- GR-4 USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT PER THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION". DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- GR-5 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE WORK WITH ANY OTHER APPLICABLE TRADES.
- GR-6 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE REPAIR OF THE STRUCTURE REACHES ITS FINAL CONDITION.
- GR-7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING, SHORINGS, RE-SHORES AND CONSTRUCTION SUPPORTS, FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY SUPPORTS AND BRACES. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO TO DESIGN TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.
- GR-8 THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.
- GR-9 THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE STRUCTURAL DRAWINGS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.
- GR-10 IN CASES OF CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND OTHER DISCIPLINES OR EXISTING CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND PROCEEDING WITH WORK.
- GR-11 APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY THE DETAILS AND/OR NOTE.
- GR-12 ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
- GR-13 ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS, IF NOT INDICATED ON DRAWINGS.
- GR-14 THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES FROM DAMAGE.
- GR-15 THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOAD IS APPLIED.
- GR-16 ELEVATIONS INDICATED ON STRUCTURAL DRAWINGS ARE BASED ON A PROJECT DATUM INDICATED.
- GR-17 MAINTAIN A QUALITY CONTROL PLAN FOR STRUCTURAL WORK, AND MAKE IT AVAILABLE TO THE CONSULTANT UPON REQUEST. AT A MINIMUM, THE PLAN TO INCLUDE:
A. NAMES OF PERSONNEL RESPONSIBLE FOR EXECUTION OF THE PLAN.
B. MEANS AND METHODS FOR CONFIRMING MATERIAL COMPLIANCE WITH SPECIFICATIONS AND ASSOCIATED DOCUMENTATION PROCEDURES.
C. PROGRAM FOR CONFIRMING AND DOCUMENTING COMPLIANCE WITH REQUIRED SUB-TRADE QUALIFICATIONS AND QUALIFICATIONS OF THEIR INDIVIDUAL EMPLOYEES AND SUB-CONTRACTORS.
D. PROCEDURES FOR REVIEWING FIELD COMPLIANCE WITH CONSTRUCTION DOCUMENTS, INCLUDING DOCUMENTATION OF LOCATIONS REVIEWED, PHOTOGRAPHS TAKEN AND TIMING OF REVIEW, THE CONTRACTOR'S REVIEW TO BE COMPLETED PRIOR TO REVIEW BY THE CONSULTANT.
E. PROCEDURES FOR RECTIFYING DEFICIENCIES NOTED BY THE CONTRACTOR, SUB-CONTRACTORS, CONSULTANTS AND INDEPENDENT INSPECTION AGENCIES.
- GR-18 IN CASE OF DISCREPANCY BETWEEN GENERAL NOTES, DRAWINGS AND SPECIFICATIONS, COMPLY WITH THE MOST STRINGENT REQUIREMENTS.
- GR-19 NO CRANE OPERATIONS ARE ALLOWED DURING SCHOOL HOURS AND ABOVE OCCUPIED SPACE. CRANE LIFTING SHALL TAKE PLACE AFTER HOURS, OR WHEN THE BUILDING IS UNOCCUPIED.
- GR-20 CONTRACTOR TO INFORM OWNER AND STAKEHOLDERS DAILY VIA EMAIL ABOUT THE LOCATION OF THEIR WORK, AND TO NOTIFY WHICH CLASSROOMS AND/OR INDOOR SPACE MAY BE AFFECTED FOR THAT DAY.
- GR-21 CONTRACTOR TO COORDINATE WITH THE OWNER A FULL OR PARTIAL CLOSURE OF CLASSROOMS/INDOOR SPACES LOCATED BELOW THEIR AREA OF WORK.
- GR-22 CONTRACTOR TO COORDINATE WITH THE HEAD CUSTODIAN/ TDSB TRADES TO CLOSE/ TURN OFF/ SWITCH TO 100% RECYCLED AIR MODE LOUVERS AND FRESH AIR INTAKES IN THE VICINITY OF WORK AND WITHIN THE SETUP AREA, WHEN REQUIRED.
- GR-23 MINIMUM OF TWO INDOOR AIR QUALITY TESTS ARE REQUIRED DURING EXECUTION OF THE PROJECT. ONE ON THE FIRST DAY AND BEFORE THE CONSTRUCTION STARTS, AND THE SECOND AIR QUALITY TEST WHEN CONSTRUCTION STARTS AND/OR BITUMEN KETLE IS BEING USED.
- GR-24 CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE OVERHEAD PROTECTION WHEN WORKING ABOVE THE ENTRANCE, AND ASSEMBLING OF TEMPORARY GROUND FENCE WHEN WORKING ALONG ROOF EDGE.
- GR-25 CONTRACTOR SHALL INSTALL 6 MIL POLYETHYLENE SHEETING ON THE INTERIOR SIDE OF THE WINDOWS, FRESH AIR INTAKES AND LOUVERS IN THE VICINITY OF GROUND SETUP OR CLOSE TO WORKING AREAS (PLUS ADDITIONAL RADIUS OF 20'), IN ORDER TO MITIGATE ODOURS, DUST AND MINIMIZE DISRUPTION FOR THE OCCUPANTS.
- GR-26 CONTRACTOR SHALL INSTALL SELF-ADHERED TAPE AND SEAL ALL GAPS ALONG PERIMETER, AROUND CURBS AND OTHER PENETRATIONS ON THE DECK PRIOR TO ADHESIVE/ASPHALT APPLICATION, IN ORDER TO MITIGATE LEAKS AND POTENTIAL DEBRIS IN THE INTERIOR.
- GR-27 CONTRACTOR TO PROVIDE A REVISED EMERGENCY EGRESS PLAN FOR REVIEW BY CONSULTANT/OWNER. IF ORIGINAL EVACUATION PLAN IS AFFECTED DURING EXECUTION OF PROJECT.
- GR-28 MECHANICAL/ ELECTRICAL CONSULTANT / CONTRACTOR SHOULD INFORM IF ANY MECHANICAL/ELECTRICAL EQUIPMENT IN THE AREA UNDER SCOPE OF WORK WAS FOUND INOPERABLE / OBSOLETE. ANY REQUIRED DISCONNECTION/RECONNECTION AND TEMPORARY REMOVAL OF HVAC EQUIPMENT IS TO BE COORDINATED WITH TDSB IN ADVANCE.

CD CODES AND DESIGN CRITERIA

- CD-1 PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE PROJECT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS, UON:
STRUCTURAL REPAIR IS IN ACCORDANCE WITH THE FOLLOWING:
ONTARIO BUILDING CODE 2012 (2019 AMENDMENTS)
NATIONAL BUILDING CODE OF CANADA 2015
THE CURRENT PERFORMANCE LEVEL IS MAINTAINED AND SEISMIC OR OTHER STRUCTURAL EVALUATION AND UPGRADING INCLUDING UPGRADING TO CARRY GRAVITY LOADS IS NOT INCLUDED IN THE SCOPE OF THE PROJECT. TT-S ACCEPTS NO RESPONSIBILITY FOR THE STRUCTURAL ADEQUACY OF THE REMAINDER OF THE EXISTING BUILDING WHICH REMAINS THE RESPONSIBILITY OF THE ORIGINAL STRUCTURAL ENGINEER, NOR FOR POSSIBLE DETRIMENTAL, SEISMIC OR OTHER EFFECTS THE REMAINDER OF THE BUILDING MAY HAVE ON THE RENOVATED AREAS.
RENOVATION OF THE EXISTING BUILDING IS CONSIDERED "BASIC", AS STIPULATED BY PART 11 OF THE ONTARIO BUILDING CODE. MODIFICATIONS TO THE BUILDING STRUCTURE ARE DESIGNED TO MAINTAIN ITS EXISTING PERFORMANCE LEVEL, ADEQUACY OF THE BASE BUILDING STRUCTURE REMAINS THE RESPONSIBILITY OF THE ORIGINAL STRUCTURAL ENGINEER.
- STRUCTURAL CONCRETE:
CONCRETE ELEMENTS ARE DESIGNED PER CSA A23.3-04 - DESIGN OF CONCRETE STRUCTURES.
CD-2 UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN IN THESE GENERAL NOTES BELOW ARE SPECIFIED (UNFACTORED) LOADS, APPROPRIATE LOAD FACTORS, PER NBC 2010, SHALL BE APPLIED FOR ULS DESIGN.
CD-3 SELF WEIGHT (SWT):
SELF WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE STRUCTURAL SYSTEM, AND INCLUDES CONCRETE TOPPING ON STEEL DECK.
CD-4 WIND LOADS
q₁₀ = 0.34 kPa (Etiobicoke, ON)
q₃₀ = 0.1 kPa
W(SL) = 1.0
W(SLS) = 0.75
BUILDING IS : LOW RISE
TERRAIN TYPE : OPEN
C_e = 0.9
- CD-5 IMPORTANCE CATEGORY:
BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF NORMAL IMPORTANCE CATEGORY.

ES EXISTING STRUCTURES

- ES-1 EXISTING STRUCTURAL INFORMATION IS BASED UPON MULTIPLE SITE VISITS CONDUCTED BY TT. EXISTING CONDITIONS ARE ASSUMED. SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO TT-S BEFORE PROCEEDING WITH THE WORK.
ES-2 DESIGN OF STRUCTURAL WORKS RELATED TO THE EXISTING BUILDING HAS BEEN CARRIED OUT AS FAR AS PRACTICAL, GIVEN LIMITED AVAILABILITY OF THE EXISTING DRAWINGS AND LIMITED RECORDS OF THE STRUCTURAL MODIFICATIONS LIKELY TO HAVE BEEN MADE THROUGHOUT THE LIFE OF THE BUILDING. MODIFICATIONS TO THE PROPOSED STRUCTURAL REPAIRS AND/OR DETAILS MAY BE REQUIRED IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE ASSUMED AND SHOWN ON DRAWINGS.
ES-3 TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING STRUCTURES DURING DEMOLITION.
ES-4 SAFELY STORE ALL STRUCTURAL ELEMENTS AND OTHER PRODUCTS WHICH ARE TO BE RE-USED.
ES-5 REMOVE FROM SITE ALL OTHER STRUCTURAL ELEMENTS AND PRODUCTS WHICH ARE NOT INDICATED TO BE HANDED OVER TO THE OWNER.
ES-6 SCHEDULE WORK TO MINIMIZE EFFECT ON THE EXISTING BUILDING OPERATION. USE EQUIPMENT AND PROCEDURES TO MINIMIZE NOISE, DUST AND VIBRATIONS. SUBMIT PROPOSED SCHEDULE FOR REVIEW BY THE CONSULTANT AND THE OWNER.
ES-7 ALL SHORING AND OTHER TEMPORARY WORKS TO BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS DRAWINGS SIGNED AND SEALED BY THAT ENGINEER SHOWING DEMOLITION PROCEDURE AND SEQUENCE AND ALL THE NECESSARY SHORING.
ES-8 DO NOT ALTER MATERIAL PROPERTIES OF THE STRUCTURAL STEEL WHICH IS TO REMAIN BY CUTTING AND DEMOLITION PROCEDURE.
ES-9 MAKE GOOD ALL EXISTING WORK DISTURBED BY THE SHORING OPERATIONS, DEMOLITION, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.

DE DEMOLITION

- DE-1 THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION UNTIL THE WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE SHORING IN REQUIRED LOCATIONS WHERE EXISTING CONSTRUCTION TO REMAIN WILL BE AFFECTED BY DEMOLITION. CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO WHERE THE PROJECT IS LOCATED TO DESIGN SHORING.
DE-2 THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY ELEMENTS WHICH ARE TO REMAIN AND THAT HAVE BEEN DAMAGED DURING THE DEMOLITION PROCESS TO THE COMPLETE SATISFACTION OF THE OWNER. THE REPAIRS SHALL BE AT NO EXPENSE TO THE OWNER.
DE-3 ALL EXISTING STRUCTURE IS INDICATED FOR REFERENCE ONLY AND IS TO BE FIELD VERIFIED BY THE CONTRACTOR. VERIFY THE EXACT EXTENT OF DEMOLITION AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH THE EXISTING CONSTRUCTION. IMMEDIATELY NOTIFY THE DESIGN PROFESSIONALS OF ANY INCONSISTENCIES.
DE-4 THE CONTRACTOR SHALL USE THE STRUCTURAL CONTRACT DOCUMENTS IN CONJUNCTION WITH THE ARCHITECTURAL AND MEP DEMOLITION CONTRACT DOCUMENTS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONALS.
DE-5 THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR DEMOLITION AND REMOVAL OPERATIONS. PERFORM DEMOLITION AND REMOVAL OPERATIONS IN A CAREFUL AND ORDERLY MANNER TO PREVENT HAZARDS TO PERSONS, DAMAGE TO PROPERTY, AND THE SPREADING OF DUST AND DEBRIS.
DE-6 DO NOT PERMIT PORTIONS OF THE STRUCTURE TO FALL NOR DEBRIS TO DROP EXCEPT BY METHODS WHICH WILL INSURE INTEGRITY OF THE STRUCTURE.
DE-7 PRIOR TO THE START OF WORK, VERIFY THAT THE SCOPE OF DEMOLITION INDICATED ON THE CONTRACT DOCUMENTS SHALL NOT DAMAGE, CUT OR DISRUPT SERVICE OF ANY MECHANICAL SYSTEM, ELECTRICAL SYSTEM OR UTILITY EMBEDDED IN THE EXISTING STRUCTURE.
DE-8 DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN INDICATED ON CONTRACT DOCUMENTS; DO NOT DAMAGE, MAR, CUT OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE RE-USED.

DE-9 THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF REMOVING DEMOLISHED MATERIALS FROM THE SITE. IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS.

DE-10 WHERE NEW OPENINGS IN EXISTING CONCRETE SLABS OR WALLS ARE TO BE CREATED, THE DEMOLITION CONTRACTOR SHALL CORE HOLES AT THE OUTSIDE CORNERS OF THE NEW OPENING PRIOR TO DEMOLITION. SAW-CUT AND DEMOLISH SLAB OR WALL ONLY AFTER THE INSTALLATION OF ALL REQUIRED NEW STRUCTURAL FRAMING AND/OR REINFORCEMENT IN PLACE OR SECTION. UON. SAW-CUTTING SHALL BE STRAIGHT AND SHALL NOT EXTEND INTO EXISTING SLAB OR WALL TO REMAIN NOR BEYOND THE HOLES CORED AT THE CORNERS OF THE NEW OPENING.

CC CAST-IN-PLACE CONCRETE

CC-1 CONCRETE MATERIALS TO BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, UON:

| ELEMENT | COMPRESSIVE STRENGTH (MPa) AT 28 DAYS | EXPOSURE CLASS |
|---|---------------------------------------|----------------|
| FOR MECH TRENCHES, INTERIOR SLAB ON GRADE | 25 | N SEE NOTE 2 |

- NOTES:
1. LIMIT NOMINAL MAXIMUM AGGREGATE SIZE TO 10 (3/8") FOR WALLS LESS THAN 200 (8") THICK.
2. PROVIDE MINIMUM DOSAGE OF CORROSION INHIBITOR IS 10L/m³ OF 30% SOLUTION OF CALCIUM NITRITE, AS PER CSA-S415.
3. CEMENT TO BE PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS.
CC-2 CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CSA A23.1, PROVIDE NORMALWEIGHT CONCRETE WITH CURED DENSITY OF 2350 kg/m³ +/- 80 kg/m³. WHERE INDICATED, PROVIDE LIGHTWEIGHT CONCRETE WITH CURED DENSITY OF 1800 kg/m³ +/- 50 kg/m³.
CC-3 THE USE OF CALCIUM CHLORIDE AND OTHER CHLORIDE CONTAINING AGENTS IS PROHIBITED. THE USE OF RECYCLED CONCRETE IS PROHIBITED. PLACEMENT WITHIN AND CONTACT BETWEEN ALUMINUM ITEMS, INCLUDING ALUMINUM CONDUIT, AND CONCRETE IS PROHIBITED.
CC-4 ALL CAST-IN-PLACE CONCRETE WILL EXPERIENCE DIFFERING VARIATIONS OF CRACKING. ANY ELEMENT EXPOSED TO DIRECT WEATHER AND/OR TEMPERATURE VARIATIONS DURING CONSTRUCTION OR IN THE FINAL CONDITION IS TO BE TREATED AND REGULARLY MAINTAINED TO PREVENT PROPAGATION OF CRACKS AND WATER PENETRATION. THE CONTRACTOR SHALL DEVELOP A REGULAR MAINTENANCE PROGRAM AND SUBMIT IT TO THE OWNER.
CC-5 CONTRACTOR AND CONCRETE SUPPLIER TO ENSURE THAT PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING AND THE SPECIFIED PERFORMANCE REQUIREMENTS.
CC-6 REFER TO CSA A23.1 FOR THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, AIR CONTENT, CURING REQUIREMENTS, CHLORIDE ION PENETRABILITY AND ALTERNATE CEMENT TYPES TO MEET THE REQUIREMENTS FOR THE NOTED EXPOSURE CLASS.
CC-7 PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1.

RE CONCRETE REINFORCEMENT

- RE-1 REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES UON:
DEFORMED BARS: CSA G30.18 GRADE 400R (fy = 400MPa)
EPOXY COATED DEFORMED BARS: ASTM A615 / A775
WELDED WIRE REINFORCEMENT: ASTM A1064/1066M (fy = 450MPa)
EPOXY COATED WELDED WIRE REINFORCEMENT: ASTM A1064 / A884
RE-2 DETAIL REINFORCEMENT BASED ON THE PROJECT REQUIREMENTS, CSA A23.3, UON.
RE-3 WHERE A 90-DEG, 135-DEG OR 180-DEG HOOK IS GRAPHICALLY INDICATED, PROVIDE CORRESPONDING CSA A23.3 STANDARD HOOKS. UON. BARS MARKED CONTINUOUS TO BE TERMINATED IN STANDARD HOOKS AT ENDS, REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH.
RE-4 PROVIDE EPOXY COATED REINFORCEMENT AND ACCESSORIES IN AREAS OF DIRECT EXPOSURE TO THE ENVIRONMENT, CHEMICALS, OR DE-ICING FOR THE AREAS INDICATED ON THE DRAWINGS.
RE-5 REINFORCEMENT SHALL HAVE CONCRETE PROTECTION PER CSA A23.1, MINIMUM CONCRETE COVER TO REINFORCEMENT CLOSEST TO THE SURFACE TO BE AS FOLLOWS, UNLESS OTHERWISE NOTED.
FOOTINGS AND PIERS CAST DIRECTLY AGAINST EARTH: 75mm
FORMED SIDES OF FOOTINGS, PIERS, AND WALLS: 40mm
SLABS EXPOSED TO CHLORIDES: 60mm

MA MASONRY

- MA-1 DESIGN OF MASONRY AND RELATED COMPONENTS SHALL CONFORM TO CSA S304.1, ALL MASONRY CONSTRUCTION SHALL CONFORM TO CSA A371 AND ALL CONNECTORS FOR MASONRY SHALL CONFORM TO CSA S370.
MA-2 UNLESS OTHERWISE NOTED ON PLANS, MATERIALS TO BE:
HOLLOW BLOCK: CSA A165.1 H/15/AM
SOLID BLOCK: CSA A165.1 SF/15/AM
MORTAR: CSA A179 TYPE S, PROPORTIONED BY VOLUME.
MASONRY GROUT: CSA A170M, 20% MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, 200mm SLUMP, MAXIMUM AGGREGATE SIZE 10mm.
JOINT REINFORCEMENT: ASTM A1064, TRUSS OR LADDER TYPE
EXTERIOR JT REINFORCEMENT: GALVANIZED PER ASTM A153
MASONRY TIES: HOT DIP GALVANIZED
BRICK: FIRED CLAY BRICK TO CAN/CSA-A82, TYPE X, GRADE EC, SIZE 215x102.5x65mm
MA-3 MASONRY CONTRACTOR TO BE A MEMBER OF THE CANADIAN MASONRY CONTRACTORS ASSOCIATION.
MA-4 UNLESS NOTED OTHERWISE, LAY UNITS IN RUNNING BOND. ALL FACE SHELLS TO BE FULLY BEDDED.
MA-5 DO NOT USE MORTAR WHERE GROUT IS SPECIFIED.
MA-6 PROVIDE HOT, COLD AND WET WEATHER PROTECTION AS REQUIRED BY CSA A371.
MA-7 UNLESS OTHERWISE NOTED, INTERLOCK MASONRY COURSES AT WALL CORNERS.
MA-8 PROVIDE TEMPORARY BRACING FOR LOAD BEARING MASONRY WALLS UNTIL THE SUPPORTED STRUCTURE, WHICH PROVIDES PERMANENT BRACING, IS COMPLETED.
MA-9 MOVEMENT JOINTS
1. PROVIDE VERTICAL MOVEMENT JOINTS (MJ) IN LOAD WALLS AT LOCATIONS INDICATED ON WALL ELEVATIONS.
2. UNLESS OTHERWISE NOTED ON PLANS, MOVEMENT JOINTS TO BE 12mm WIDE.
3. FILL ALL MOVEMENT JOINTS WITH COMPRESSIBLE MATERIAL.

SS STRUCTURAL STEEL

- SS-1 STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS:
ROLLED SHAPES AND CHANNELS: CAN/CSA-G40.20/G40.21 GRADE 350W OR ASTM A992/A992M GRADE 50 (345 MPa)
ANGLES FOR TRUSSES AND BRACES: CAN/CSA-G40.20/G40.21 GRADE 300W
MISCELLANEOUS ANGLES: CAN/CSA-G40.20/G40.21 GRADE 300W
HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE C
SEAMLESS PIPE: ASTM A53 GRADE B, TYPE S, MIN WELD STRENGTH 36 KSI (250 MPa)
PLATES: CAN/CSA-G40.20/G40.21 GRADE 300W
SS-2 CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:
ANGLES: CAN/CSA-G40.20/G40.21 GRADE 300W
WTs: CAN/CSA-G40.20/G40.21 GRADE 350W
PLATES: CAN/CSA-G40.20/G40.21 GRADE 50W
BOLTS: ASTM A325M OR A490M (MPa)
NUTS: ASTM A303
WASHERS: CAN/CSA-G40.20/G40.21 GRADE 300W
ANCHOR RODS: ASTM A108, GRADE 105 THROUGH 1000 HEADED STUD TYPE, Fy = 345 MPa
HEADED STUDS: 19mm DIAMETER UON. LENGTHS OF STUDS GIVEN ON DRAWINGS
WELD ELECTRODES: E60XX
SS-3 WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ANY NATURAL CAMBER IS UPWARD AFTER ERECTION.
SS-4 SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE SER IN WRITING.
SS-5 FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED FINISH. THIS APPLIES TO ALL STEEL WITHIN PARKING GARAGE STRUCTURE.
SS-6 PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS OF CALCIUM NITRITE, AS PER CSA-S415.
SS-7 SHOW ALL COPIES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE DESIGN PROFESSIONALS.
SS-8 FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN PROFESSIONALS.
SS-9 STEEL USING COMPLETE JOINT PENETRATION GROOVE WELDS THAT FUSE THROUGH THE THICKNESS OF THE FLANGE OR WEB SHALL HAVE A MINIMUM CHAIRY V-NOTCH IMPACT TESTING VALUE AS FOLLOWS:
A. HOT ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING 50mm AND BUILT-UP HEAVY SHAPES WITH FLANGES EXCEEDING 50mm IN THICKNESS: 20 FT-LB @ 70 DEG F
B. RIGIDNESS OF THICKNESS: ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND GIRDBARS, BRACES, ETC.): 20 FT-LB @ 70 DEG F
C. STEEL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50 DEG F: 20 FT-LB @ 40 DEG F MAX
D. REGARDLESS OF THICKNESS: ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND GIRDBARS, BRACES, ETC.) EXPOSED TO TEMPERATURES IN SERVICE BELOW 50 DEG F: 20 FT-LB @ 40 DEG F MAX
E. WELD METAL: 20 FT-LB @ MINUS 20 DEG F AND 40 FT-LB @ 70 DEG F
F. WELD METAL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50 DEG F: 20 FT-LB @ MINUS 20 DEG F AND 40 FT-LB @ 40 DEG F MAX
G. TESTING IS TO BE ACCORDANCE WITH ASTM A648M, SUPPLEMENTARY REQUIREMENT S3, CHAIRY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES - ALTERNATE CORE LOCATION, AT ROLLED SHAPES AND ASTM A673 FOR PLATES, AT ANY PERMITTED LOCATIONS.
LAST - LOWEST ANTICIPATED SERVICE TEMPERATURE. IN ABSENCE OF MORE ACCURATE DATA, THE RECORD LOW TEMPERATURE FOR THE PROJECT SITE.

SC STRUCTURAL STEEL CONNECTIONS

- SC-1 ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA S16 AND THE HANDBOOK OF STEEL CONSTRUCTION.
SC-2 ALL CONNECTIONS, UNLESS INDICATED AS BEING COMPLETELY DESIGNED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE WHERE THE PROJECT IS LOCATED. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
SC-3 UNLESS OTHERWISE NOTED, DETAILS INDICATED ON DRAWINGS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. DETAILS INDICATED ON DRAWINGS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTION SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANY OTHER SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGNING OF AN INDIVIDUAL CONNECTION FOR A GIVEN SET OF LOADS. THESE DETAILS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS REQUIRED AND REMOVE THEM AFTER WORK IS COMPLETE.
SC-4 SUBMIT CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS TO THE SER FOR REVIEW PRIOR TO REVIEW OF SHOP DRAWINGS. FOR BIDDING PURPOSES, WHERE NO MOMENT IS INDICATED ON DRAWINGS PROVIDE FULL MOMENT CAPACITY OF MEMBER (a F_y) AND WHERE NO VERTICAL SHEAR IS INDICATED ON DRAWINGS PROVIDE FULL SHEAR CAPACITY (1/4 F_y t).
SC-5 ALTERNATE CONNECTIONS TO THOSE SHOWN ON DRAWINGS WILL ONLY BE CONSIDERED ACCEPTABLE IF CONTRACTOR FORMALLY SUBMITS ALTERNATES AND THE SER APPROVES THE SUBMITTAL.
SC-6 FOR CONNECTION DESIGN AND DETAILING, SET CONNECTION WORK POINT AT INTERSECTION OF MEMBER CENTERLINES, UON.
SC-7 DESIGN ALL CONNECTIONS FOR FORCES INDICATED ON THE DRAWINGS. CONNECTION DESIGN FORCES INDICATED ON THE DRAWINGS ARE FACTORED UON.
SC-8 USE NO MORE THAN TWO BOLT DIAMETERS. ALL BOLTS OF THE SAME DIAMETER SHALL BE OF THE SAME GRADE. SHOT ONE SIZE BETWEEN DIAMETERS. BOLTS TO BE A MINIMUM OF 13mm DIAMETER STEEL GRADE A325 OR AS COORDINATED WITH COMPLETELY DESIGNED CONNECTIONS.
SC-9 BEAM CONNECTION DESIGN NOTES
SEE PLANS AND ELEVATIONS FOR BEAM REACTIONS AND MOMENTS THAT ARE LARGER THAN THE VALUE SHOWN IN SCHEDULES.
DEVELOP THE LARGER OF THE BEAM SHEAR REACTION SCHEDULED, SHOWN ON PLANS OR SHOWN ON ELEVATIONS.
DEVELOP THE LARGER OF THE MOMENT SCHEDULED, SHOWN ON PLANS OR SHOWN ON ELEVATIONS.
DEVELOP THE LARGER OF THE AXIAL FORCE DENOTED AS TF SHOWN ON PLANS OR SHOWN ON ELEVATIONS. SEE STEEL BEAM LEGEND.
ALL BEAM REACTIONS, AXIAL FORCES AND MOMENTS SHOWN ACT CONCURRENTLY. UON. BEAM REACTIONS ACT IN GRAVITY DIRECTION WHILE AXIAL FORCES AND MOMENTS ARE TO BE CONSIDERED REVERSIBLE.
WHERE NO AXIAL FORCE IS SHOWN, ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM AXIAL FORCE EQUAL TO 10% OF THE FACTORED DEAD LOAD PLUS LIVE LOAD VERTICAL BEAM SHEAR. FOR THE PURPOSES OF DESIGNING FOR THIS MINIMUM AXIAL FORCE, THE VERTICAL BEAM SHEAR AND CORRESPONDING MINIMUM AXIAL FORCE NEED NOT BE CONSIDERED TO ACT CONCURRENTLY AND BEARING BOLTS IN CONNECTIONS WITH SHORT SLOTTED HOLES PARALLEL TO THE AXIAL FORCE ARE PERMITTED.
EXCEPT WHERE "SMAG TIGHT" INSTALLATION IS SPECIFICALLY PERMITTED ON DRAWINGS OR "SLIP CRITICAL" DETAILING IS REQUIRED, ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED AS FULL PRETENSIONED BOLTS. AT A MINIMUM ALL BOLTED MOMENT AND AXIAL CONNECTION SHALL HAVE PRETENSIONED BOLTS IN STANDARD HOLES.
BOLTED MOMENT CONNECTIONS AT CANTILEVERS AND BACKSPANS SHALL USE SLIP CRITICAL BOLTS.
DO NOT USE OVERSIZED OR SLOTTED HOLES FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE SER.
SC-10 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE STRUCTURAL WELDING CODE, CSA W59, S16 AND W47.1, LATEST EDITION. ALL WELD SIZES SHALL BE THE LARGER OF THE SIZE REQUIRED BY CONNECTION FORCES, THE MINIMUM SIZE PER CSA W59, OR 6mm MINIMUM WELDED UON. ANY WELD SIZES SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES AND SHALL BE INCREASED IN ACCORDANCE WITH CSA W59 AS REQUIRED BY GAPS OR SKELTS BETWEEN COMPONENTS.
SC-11 USE RUNOFF TABS AT ALL BEVELS AND COMPLETE JOINT PENETRATION WELDS. REMOVE RUNOFF TABS BY NEAT CUTS AFTER WELD IS COMPLETED. GRIND SMOOTH WHERE REQUIRED BY DETAIL.
SC-12 WHERE REQUIRED BY DETAIL REMOVE WELD BACK UP BARS AND GRIND SMOOTH AFTER WELD IS COMPLETED.
SC-13 FOR TRUSS DETAILING USE A MINIMUM BOLT SPACING OF 3 TIMES THE BOLT DIAMETER AND A MINIMUM EDGE DISTANCE OF 2 INCHES. ALSO REFER TO TYPICAL DETAILS.
SC-14 DESIGN, DETAIL, FURNISH AND INSTALL STIFFENERS, CONTINUITY PLATES, DOUBLER PLATES, OR OTHER NECESSARY ADDITIONAL LOCAL STRENGTHENING MEASURES AS REQUIRED. MEMBER SIZES INDICATED ON THE DRAWINGS ARE BASED ON MEMBER BEHAVIOR AWAY FROM CONNECTIONS.

CS COLD-FORMED STEEL

- CS-1 ALL COLD-FORMED STEEL STUDS AND JOIST WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "LIGHTWEIGHT FRAMING MANUAL" BY CFSB, AS WELL AS CAN-S136.
CS-2 ALL STEEL TO BE GALVANIZED TO THE MINIMUM REQUIREMENTS OF THE CFSB GUIDE SPECIFICATION FOR LIGHTWEIGHT STEEL FRAMING UNLESS SPECIFIED OTHERWISE IN THE PROJECT SPECIFICATIONS.
CS-3 GENERAL FRAMING LAYOUTS, SIZES AND LOADS ACTING ON LOADBEARING COLD-FORMED STEEL ELEMENTS ARE SHOWN ON STRUCTURAL DRAWINGS. A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR TO DESIGN AND DETAIL THESE ELEMENTS AND THEIR CONNECTIONS IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
CS-4 DESIGN AND DETAILING OF NON-LOADBEARING COLD-FORMED STEEL COMPONENTS INCLUDING EXTERIOR WIND BEARING WALLS, PARTITION PARTITIONS, SOFFITS AND BLOWERS, IN-FILL STUDS, ETC IS THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
CS-5 DO NOT CUT HOLES OR OTHERWISE MODIFY MEMBERS ON SITE WITHOUT THE CONSULTANT'S APPROVAL.
CS-6 ALL SCREWS TO BE TIV BULDEX #10 TEXS SCREWS UON. FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH AN APPROVED EQUIVALENT SUBJECT TO ENGINEER'S APPROVAL.
CS-7 MINIMUM GRADE OF STEEL FOR STUDS, TRACKS AND ACCESSORIES SHALL BE AS FOLLOWS:
THINNER THAN 18 GAUGE - 228 MPa
GREATER THAN 18 GAUGE - 345 MPa

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SEALS

PROJECT TITLE

HUMER COLLEGE PHASE 4
BOOK STORE RENOVATION

205 HUMBER COLLEGE BLVD
ETOBICOKE ON

DRAWING TITLE

GENERAL NOTES

DRAWN BY

Author

SCALE

1 : 1

DATE

05/27/2022

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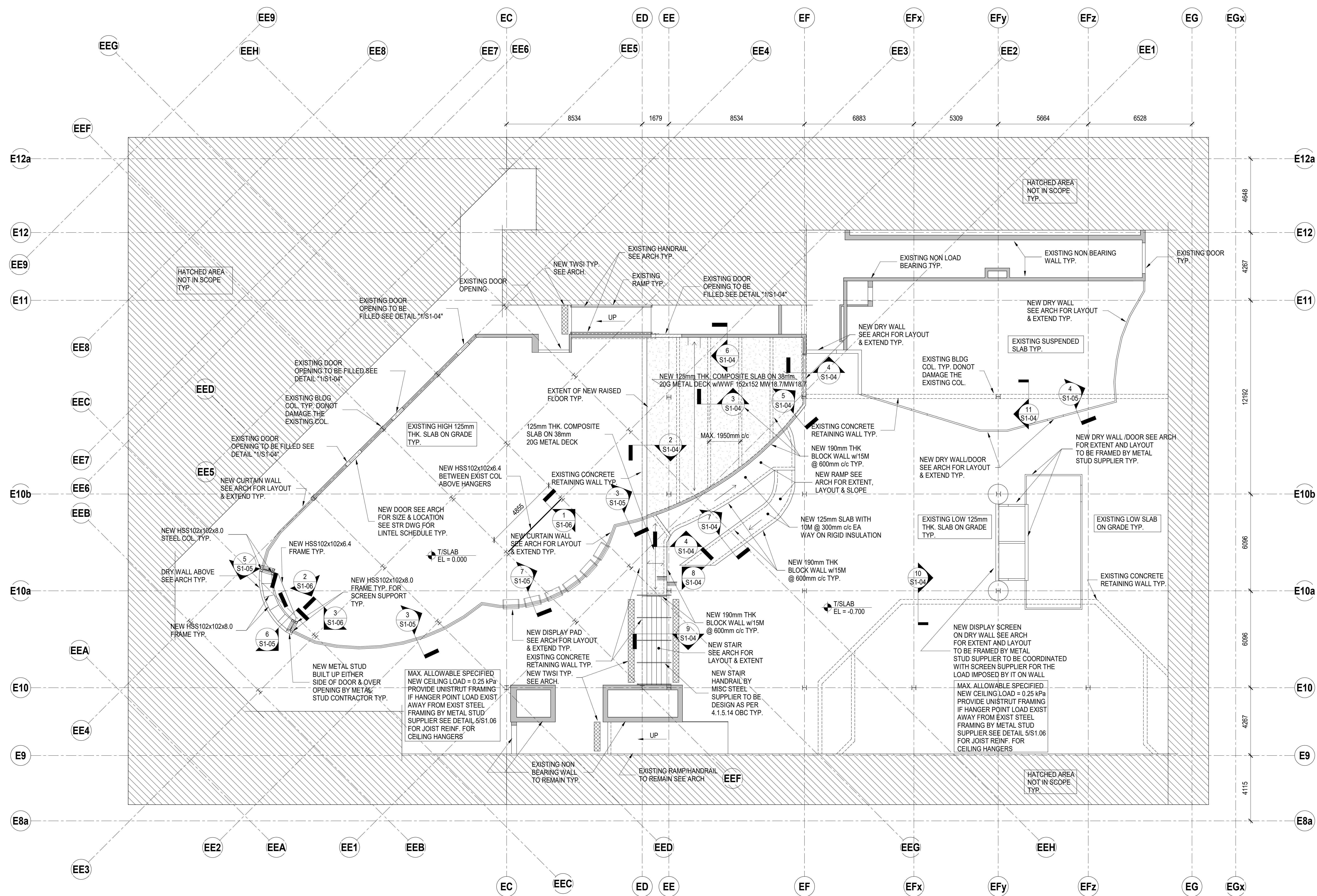
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PROJECT NUMBER

1022003.00

DRAWING NUMBER

SO-01



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PROJECT TITLE
**HUMER COLLEGE PHASE 4
BOOK STORE RENOVATION**

205 HUMER COLLEGE BLVD
ETOBICOKE ON

DRAWING TITLE
**BOOK STORE PROPOSED FLOOR
PLAN**

DRAWN BY
MNG

SCALE
1 : 100

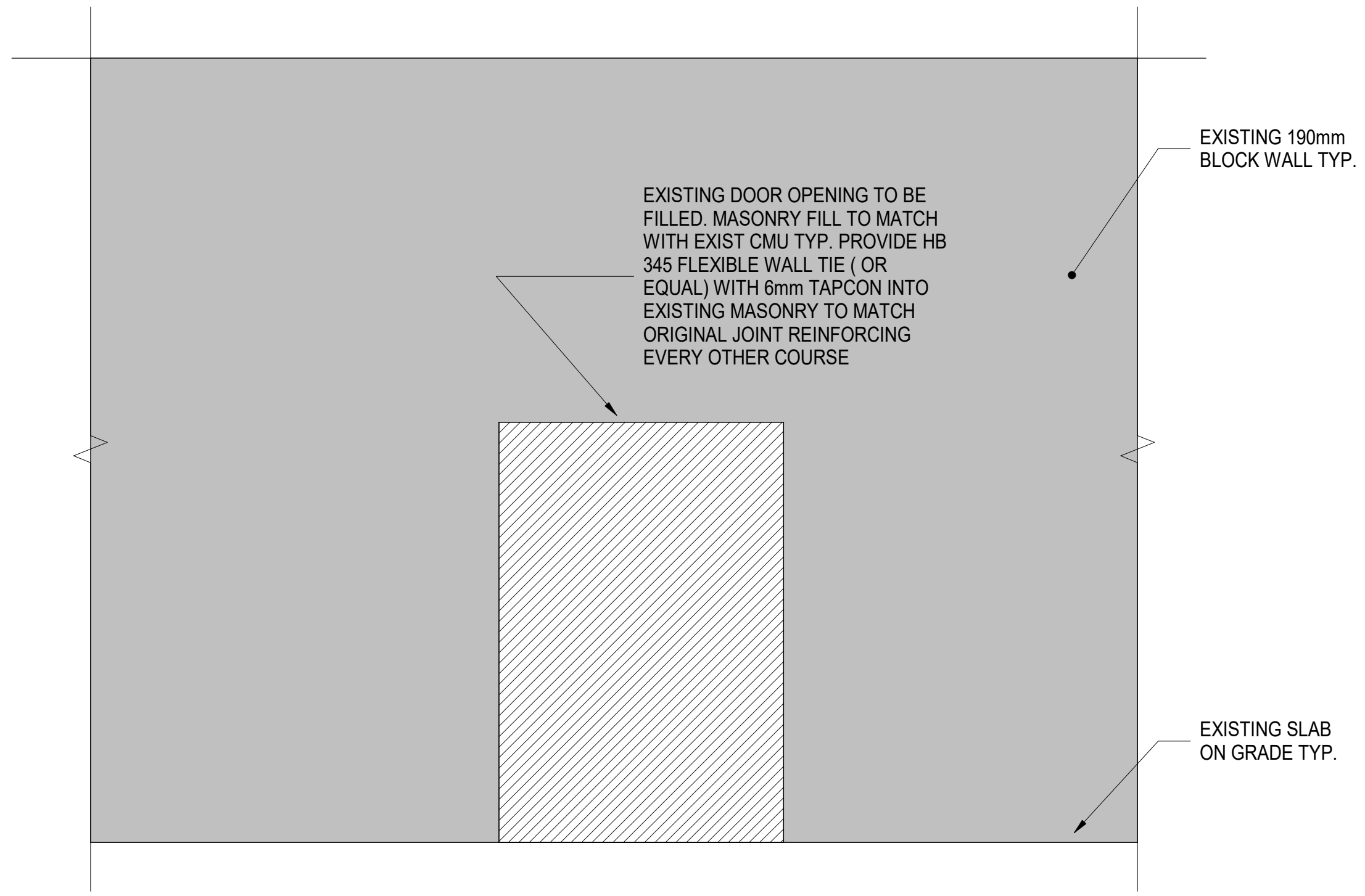
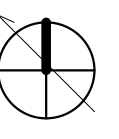
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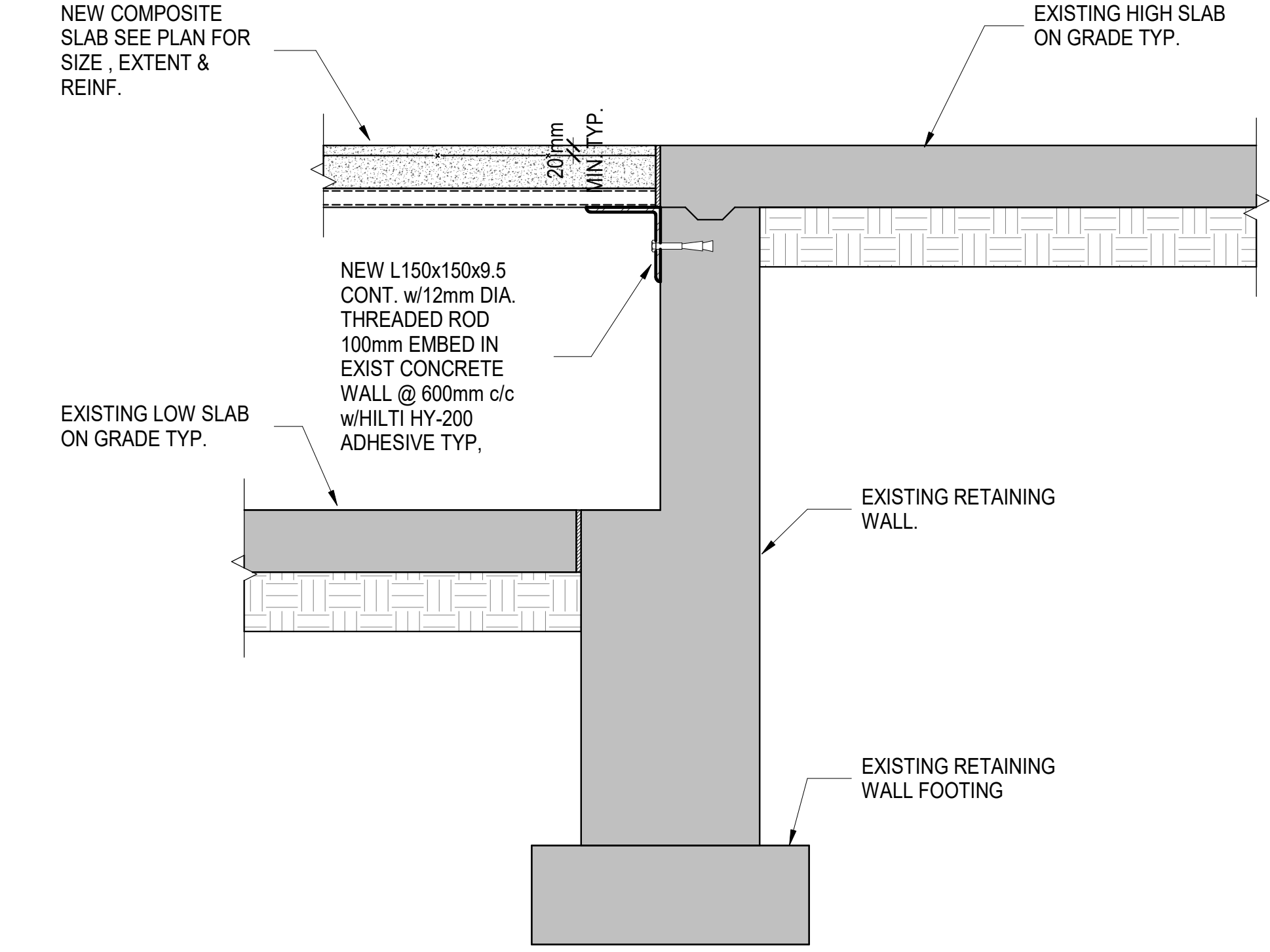
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DRAWING NUMBER
S1-01

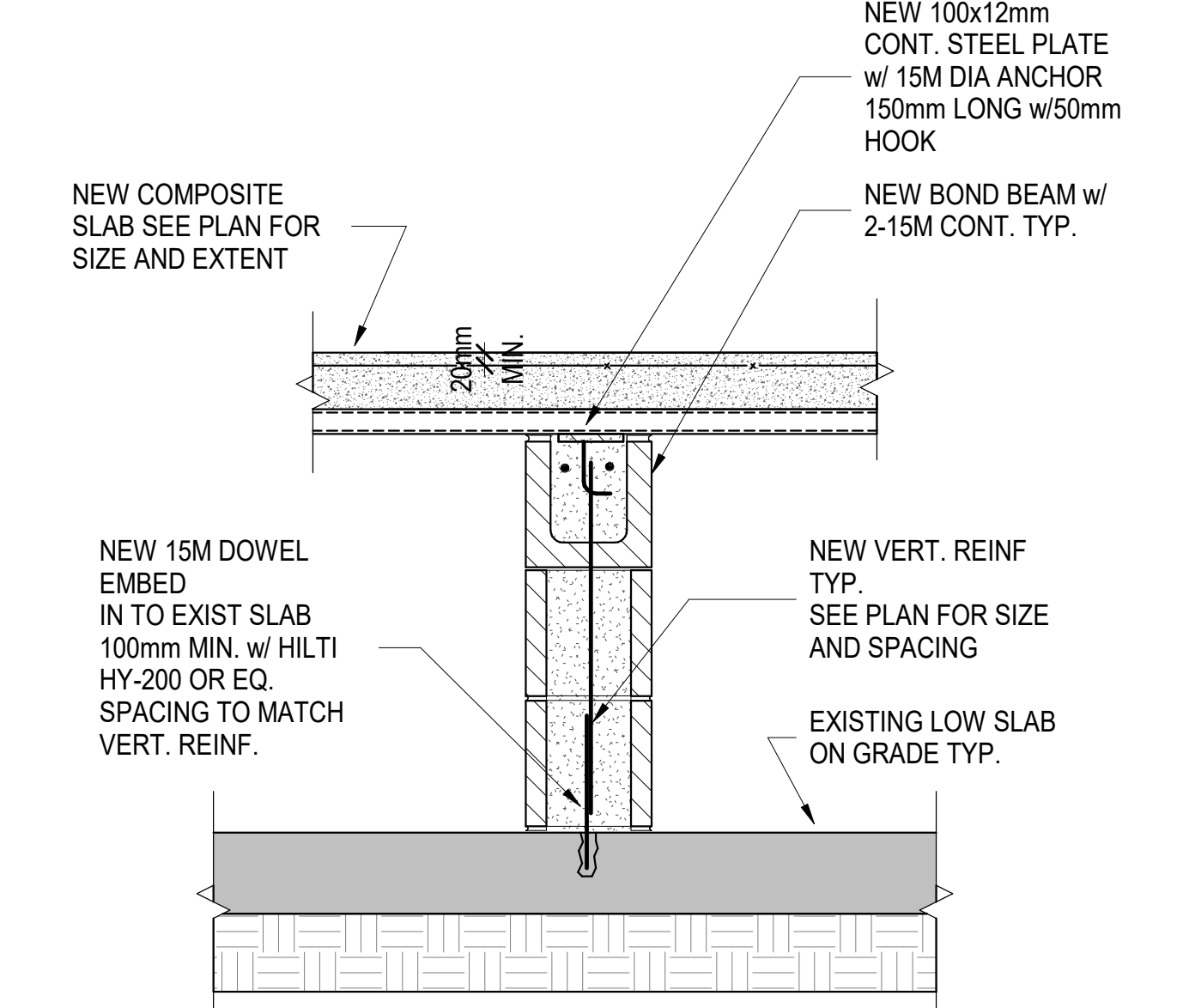
1 BOOKSTORE PROPOSED PLAN
SCALE: 1 : 100



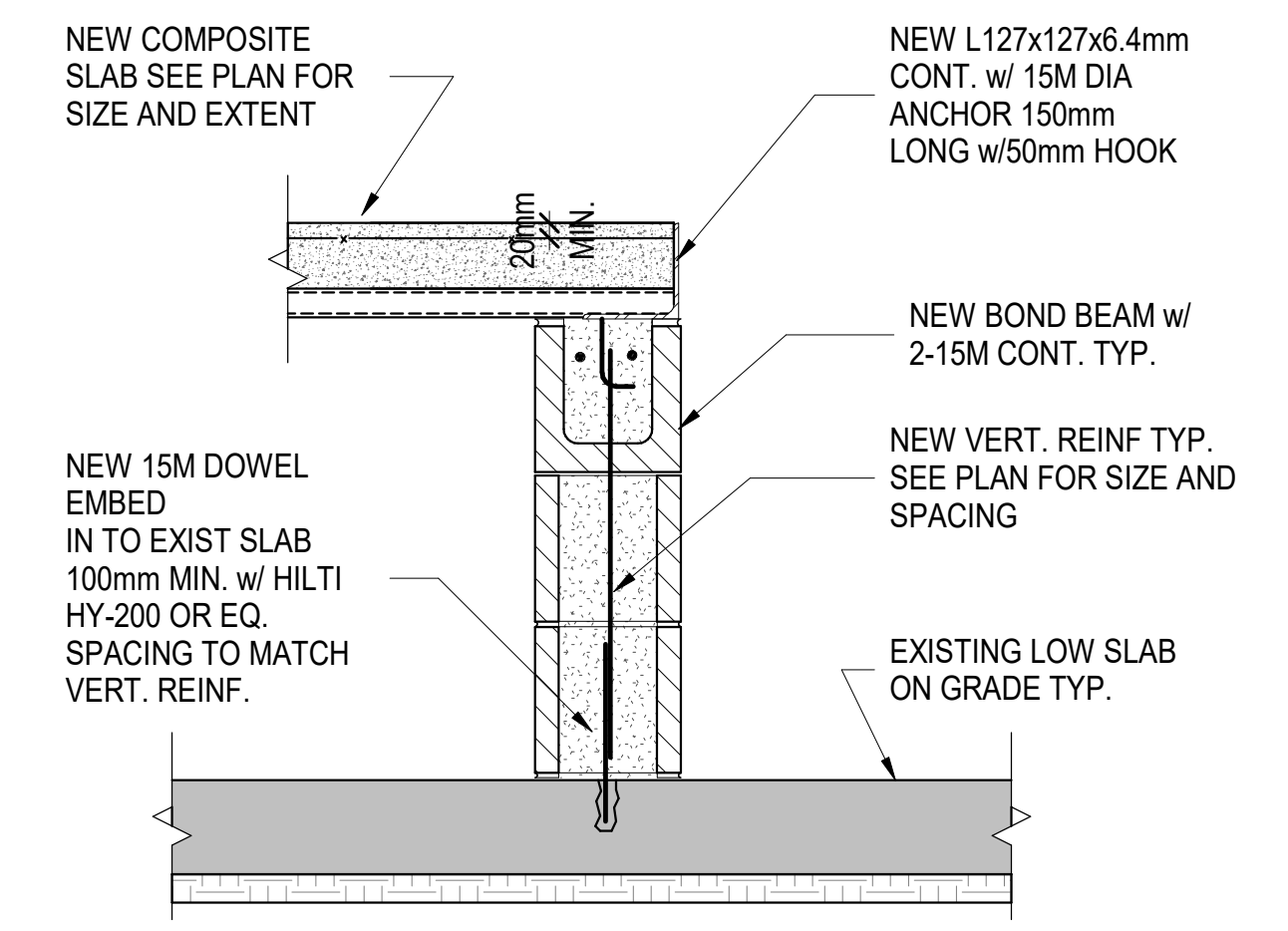
1 EXISTING DOOR OPENING REFILL
SCALE: NOT TO SCALE



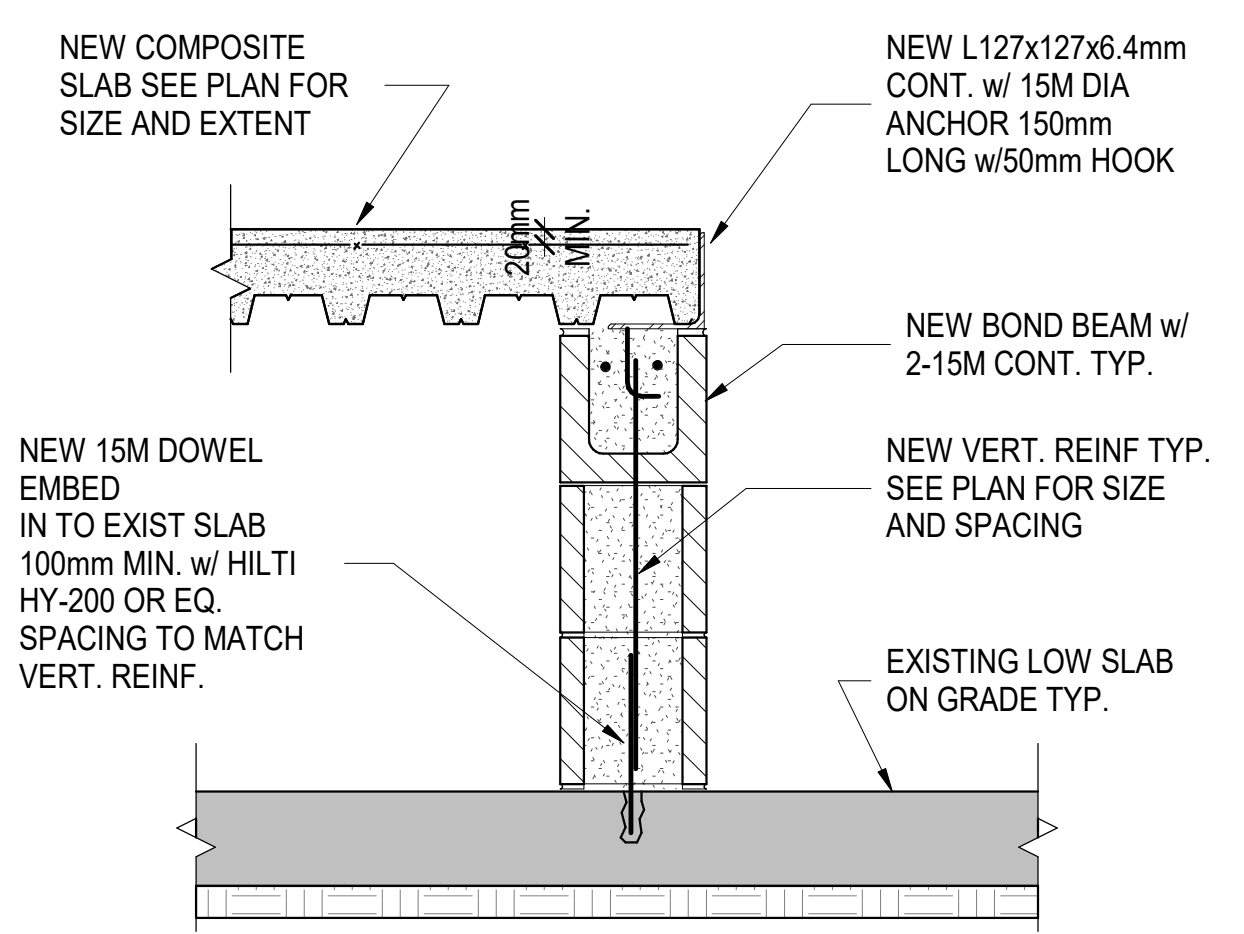
2 SECTION AT EXIST CONCRETE RETAINING WALL
SCALE: NOT TO SCALE



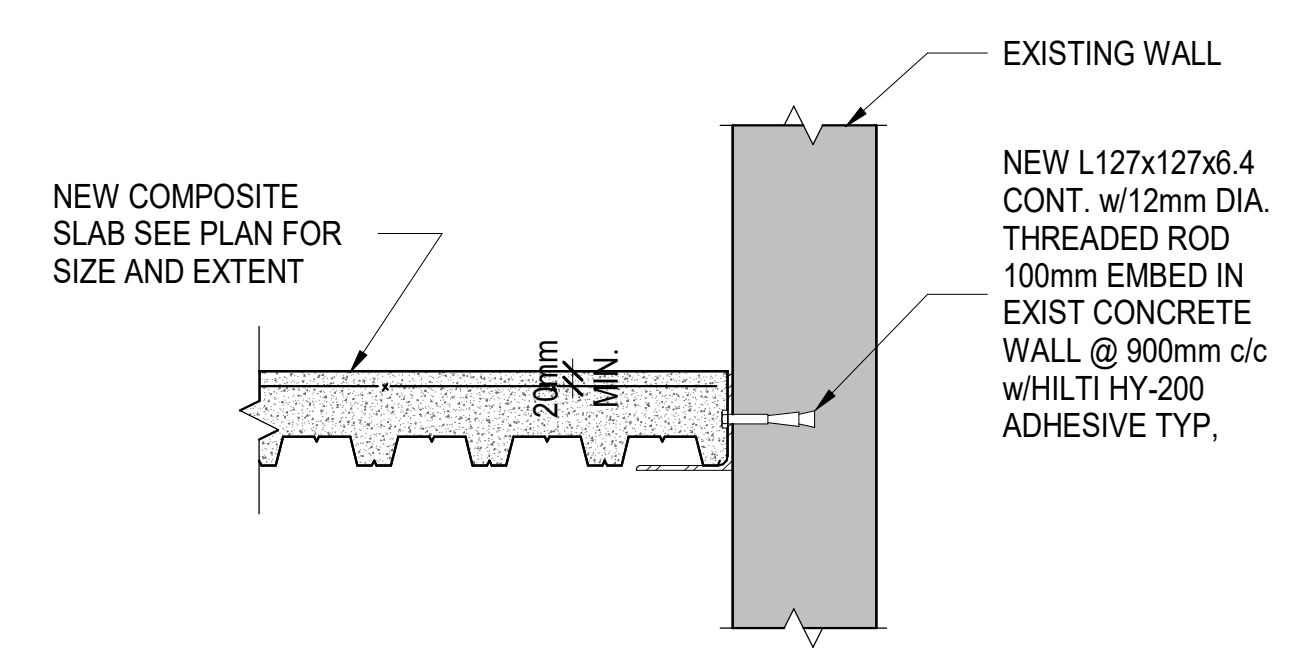
3 SECTION AT NEW INTERIOR BLOCK WALL
SCALE: NOT TO SCALE



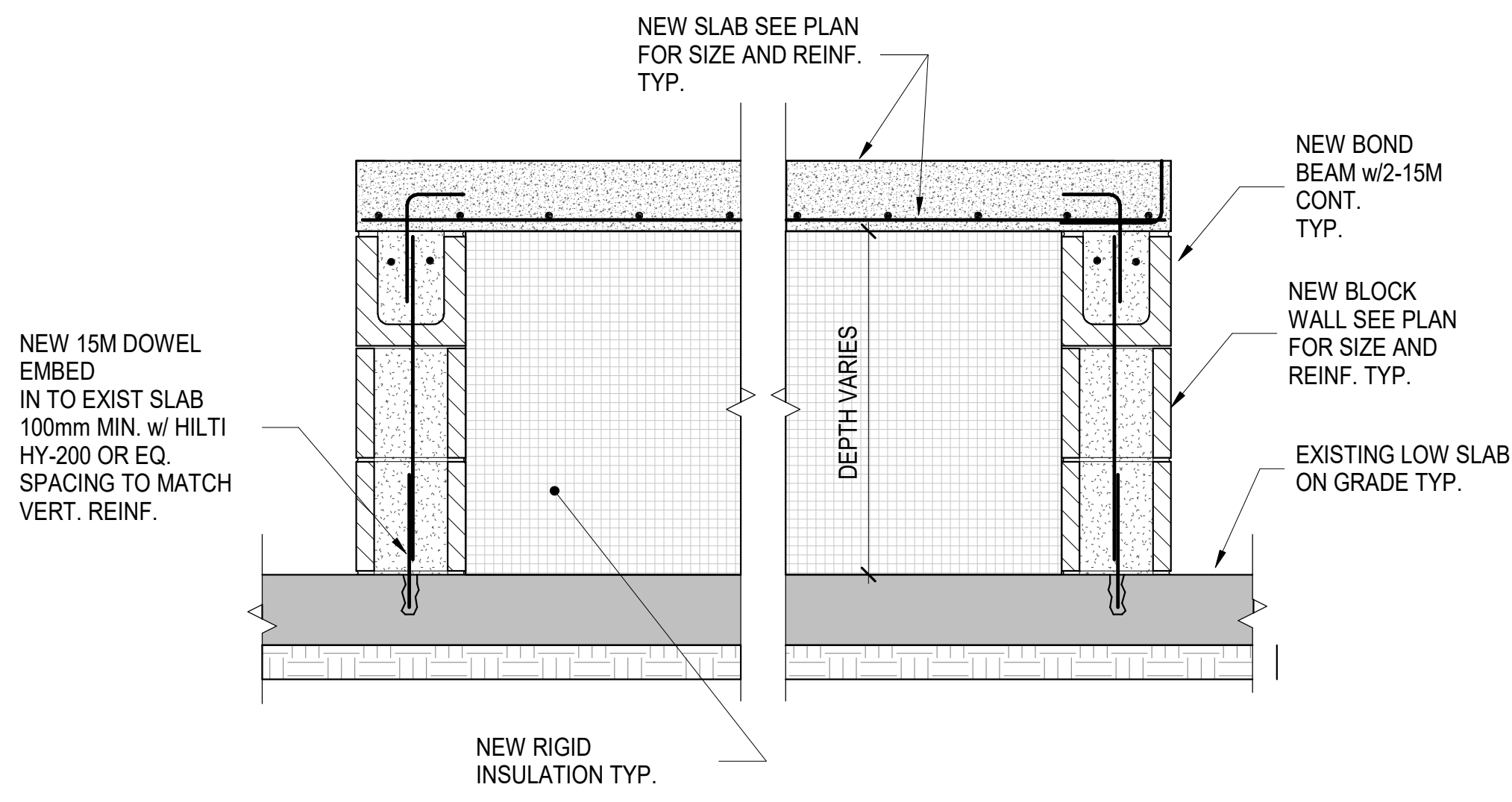
4 SECTION AT END NEW BLOCK WALL
SCALE: NOT TO SCALE



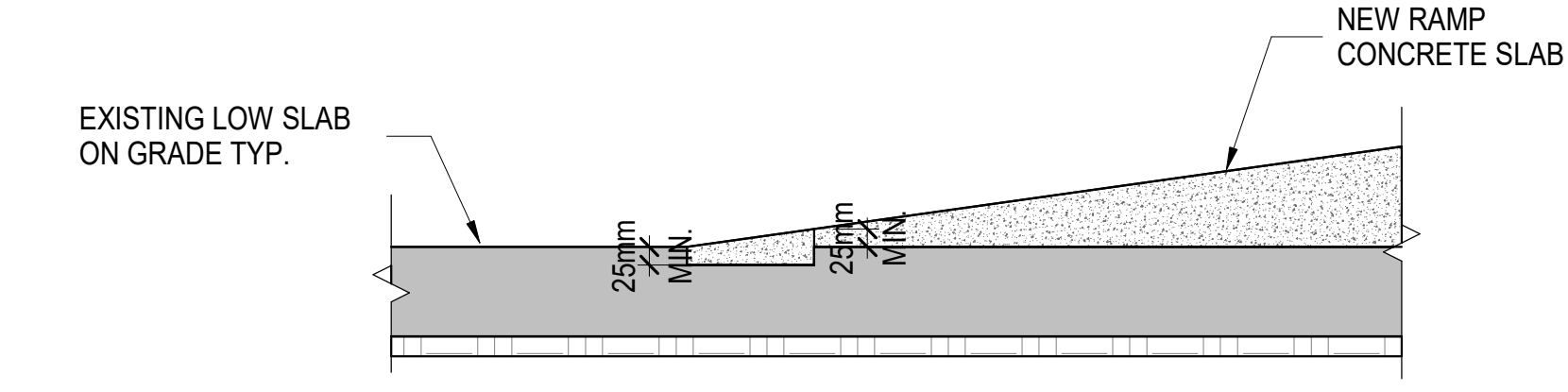
5 SECTION AT END NEW BLOCK WALL
SCALE: NOT TO SCALE



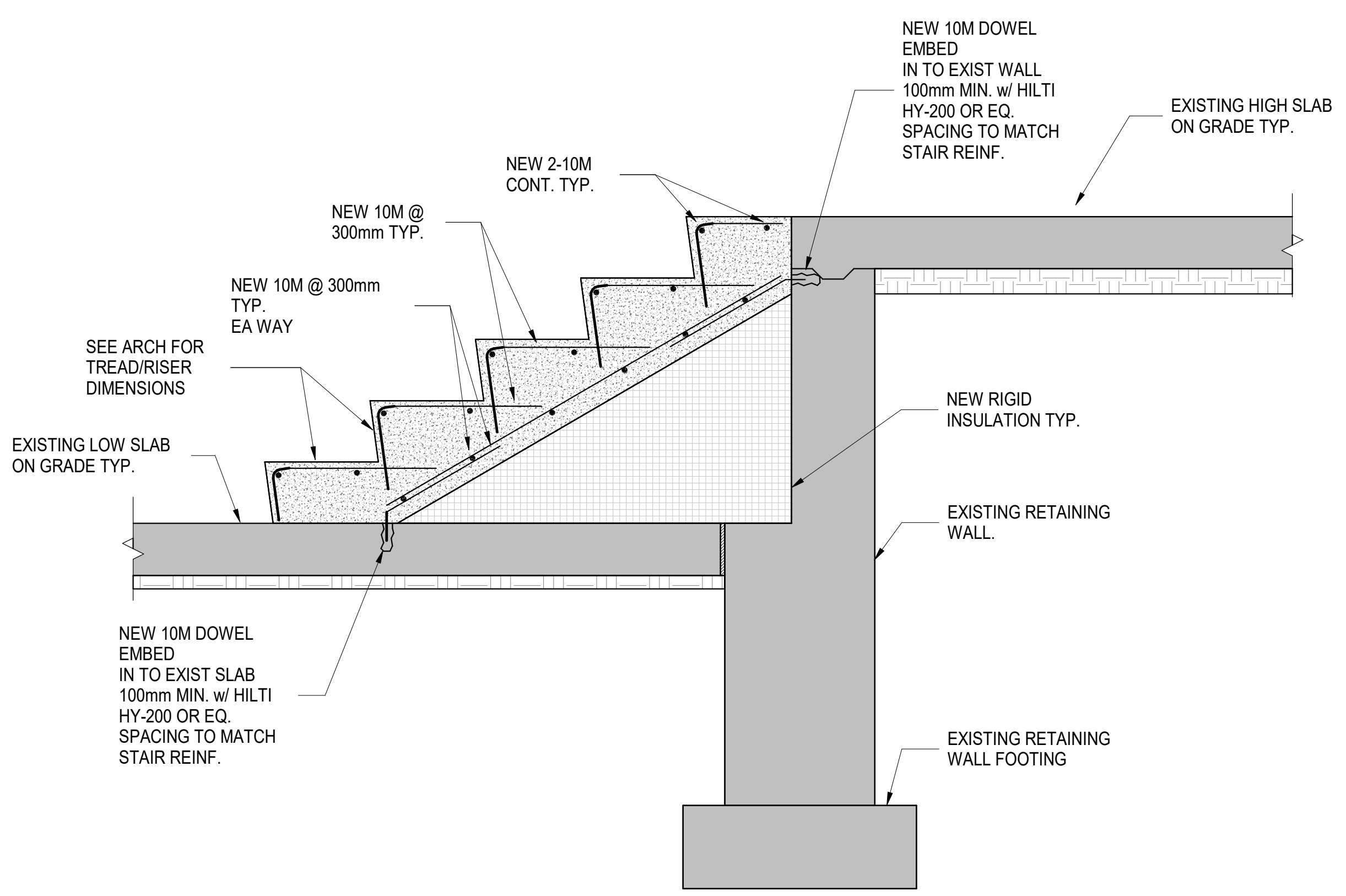
6 SECTION AT EXIST WALL
SCALE: NOT TO SCALE



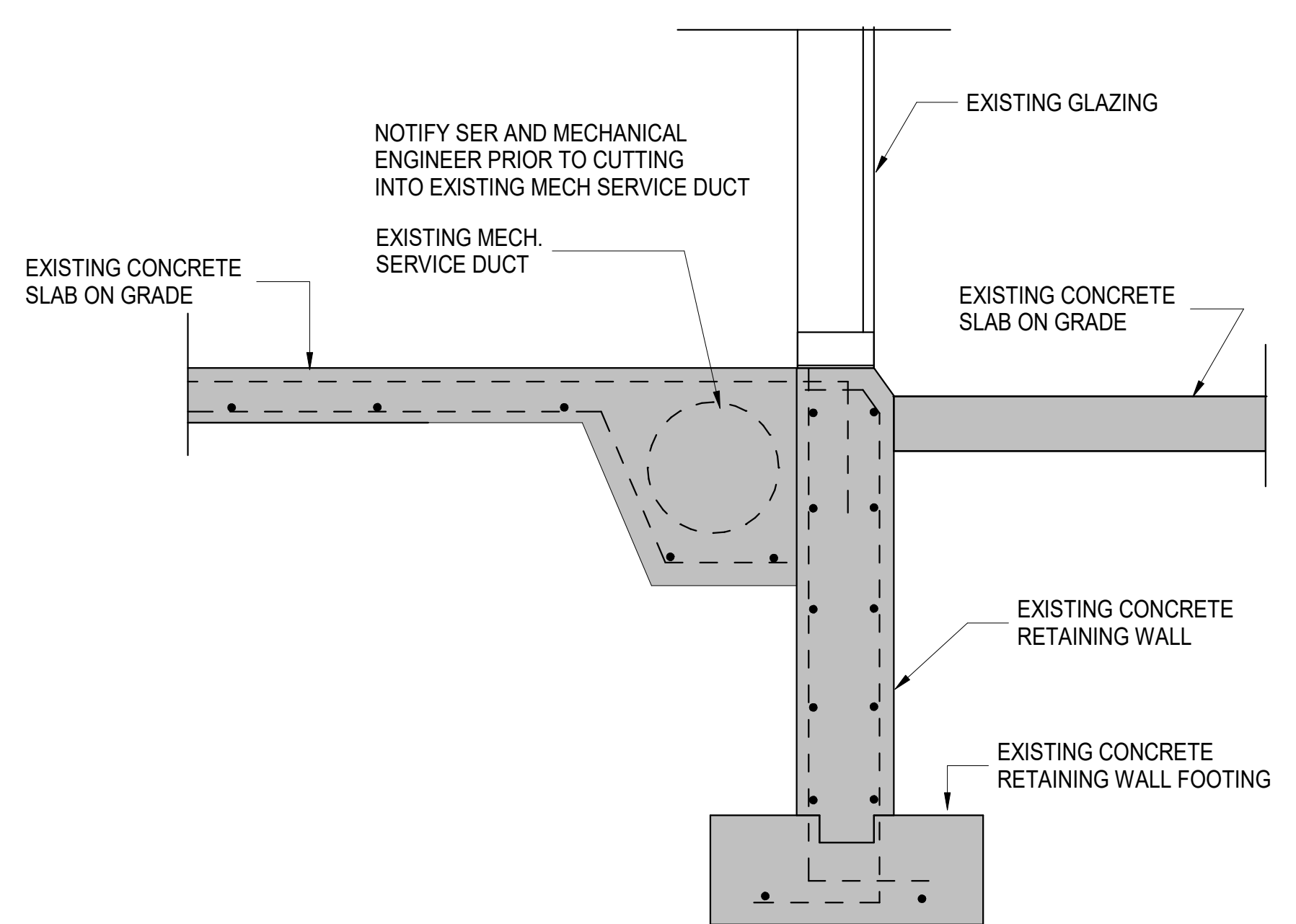
7 NEW RAMP SECTION
SCALE: NOT TO SCALE



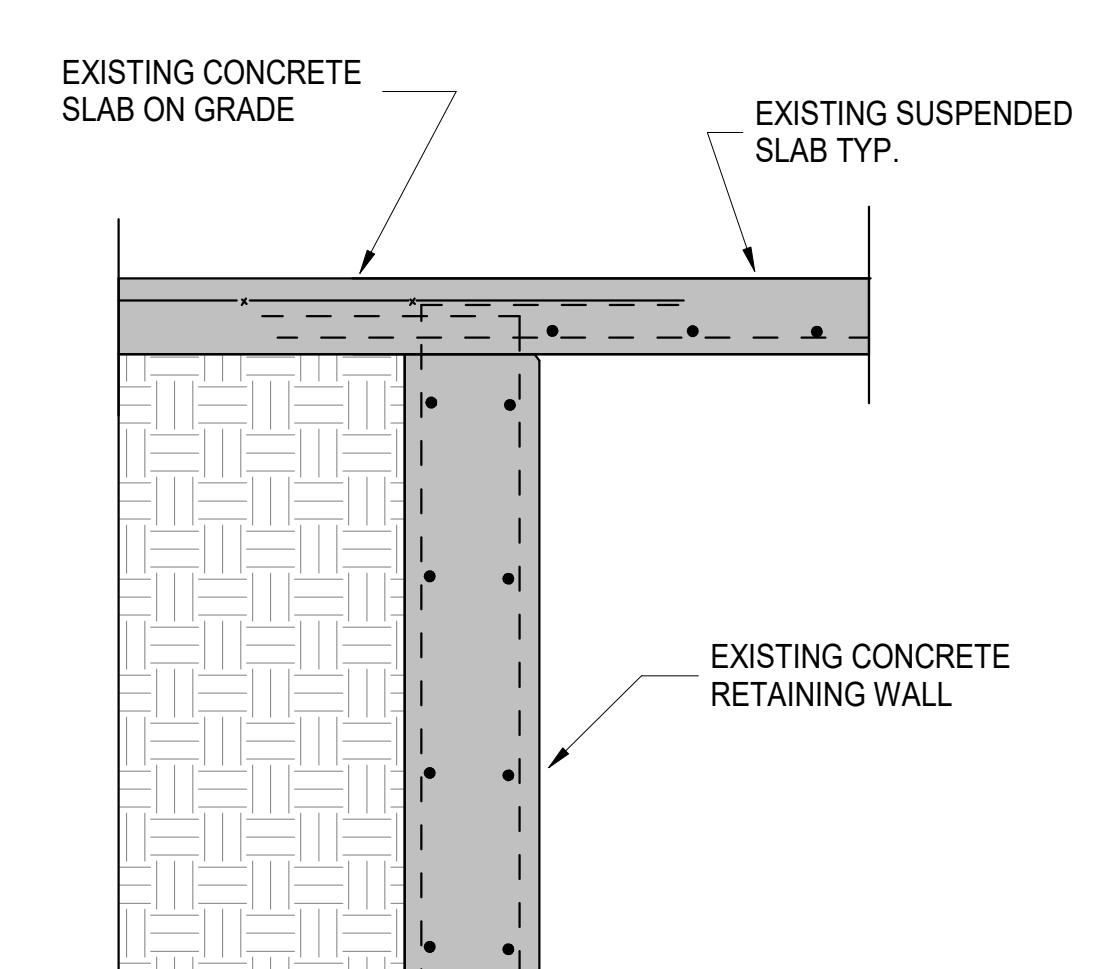
8 NEW RAMP SECTION
SCALE: NOT TO SCALE



9 NEW STAIR SECTION
SCALE: NOT TO SCALE



10 EXIST MECH DUCT NEXT TO RETAINING WALL
SCALE: 1 : 10



11 SECTION AT EXIST RETAINING WALL
SCALE: 1 : 10



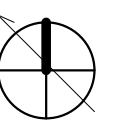
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PROJECT TITLE
**HUMER COLLEGE PHASE 4
BOOK STORE RENOVATION**
205 HUMER COLLEGE BLVD
ETIOBICOKE ON

| DRAWING TITLE | DETAILS & SECTIONS |
|----------------|--------------------|
| DRAWN BY | MNG |
| SCALE | As indicated |
| DATE | 05/27/2022 |
| CHECKED BY | KRM |
| PROJECT NUMBER | 1022003.00 |
| DRAWING NUMBER | S1-04 |



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|-----------|-----------|--------------------------|
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SEALS

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**HUMER COLLEGE PHASE 4
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DETAILS & SECTIONS

DRAWN BY
Author

SCALE
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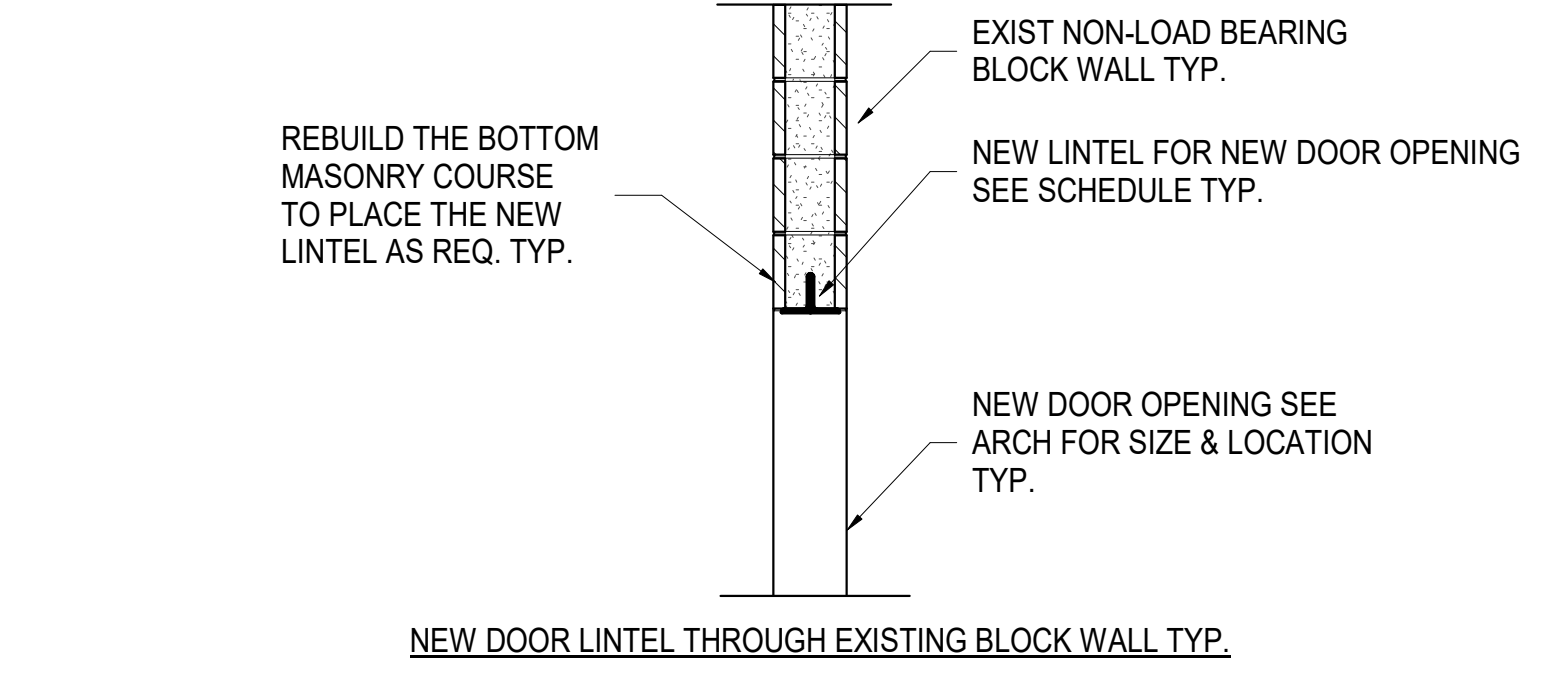
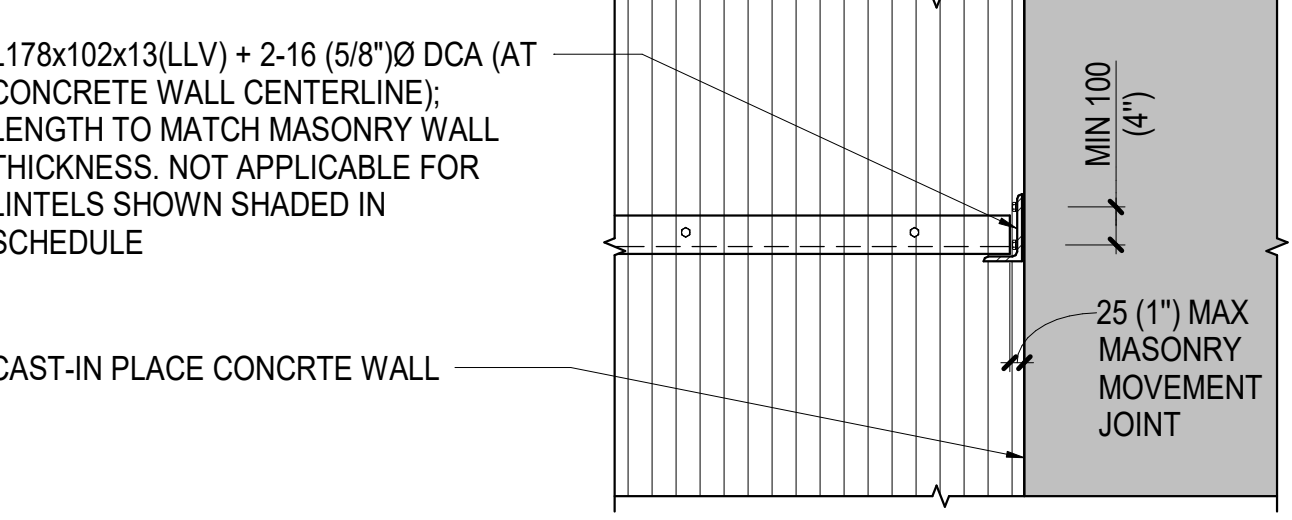
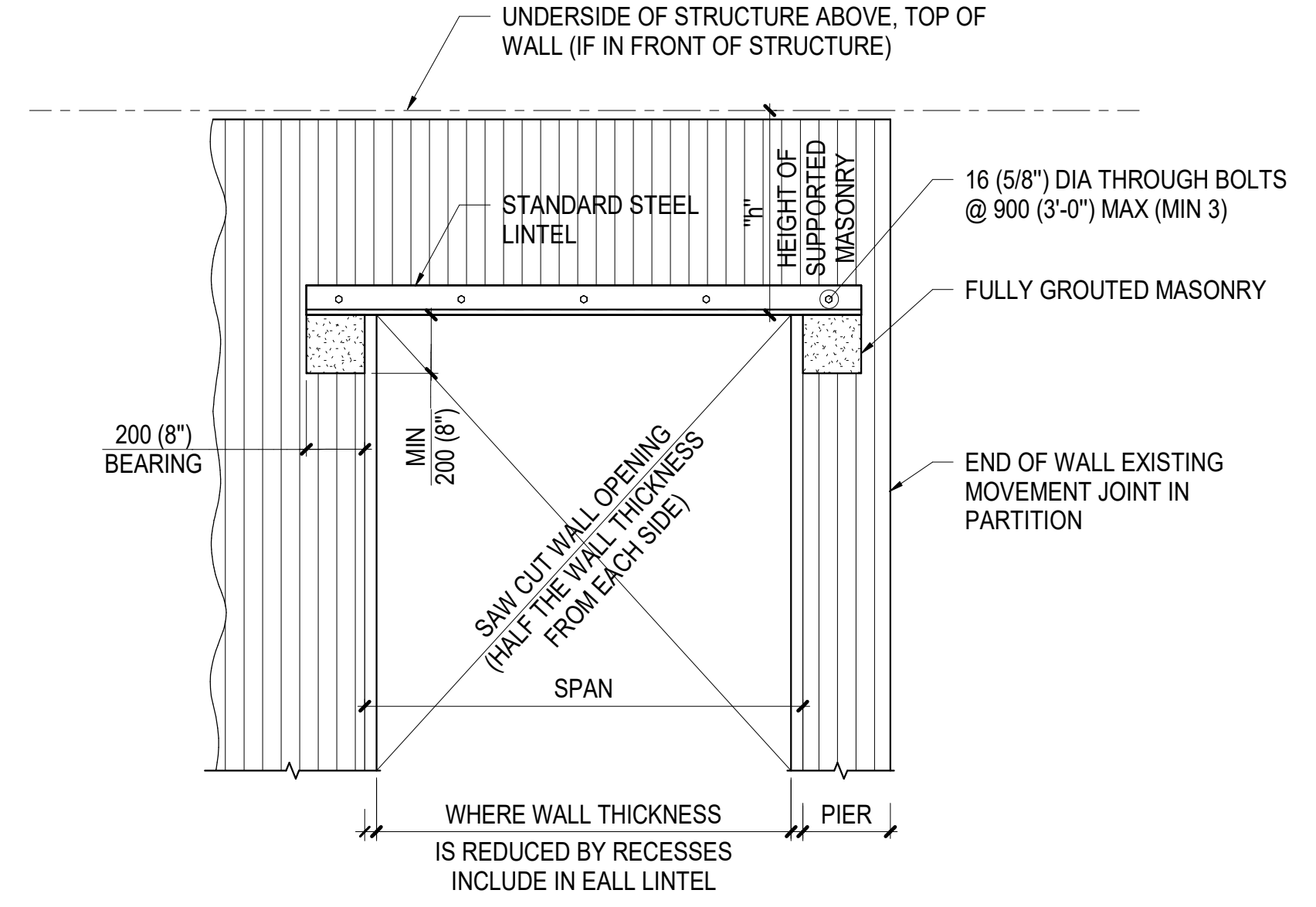
PROJECT NUMBER
1022003.00

DRAWING NUMBER
S1-05

- NOTES:**
- THIS DETAIL APPLIES FOR HOLLOW MASONRY WALLS AND FOR MASONRY WALLS WITH GROUTED CORES SPACED NOT CLOSER THAN 800 (2'-8").
 - IF PREFERRED, TYPICAL DETAILS FOR LINTELS IN NEW WALLS CAN BE USED INSTEAD OF THIS DETAIL.
 - STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
 - SEE PLANS FOR SPECIAL LINTELS.
 - IDENTIFY EXISTING MOVEMENT JOINTS. IF LOCATED LESS THAN 900 (3'-0") FROM FACE OF NEW OPENING NOTIFY THE CONSULTANT AND DO NOT CUT BEFORE RECEIVING FURTHER INSTRUCTIONS.
 - GROUT MASONRY AT SUPPORTS PRIOR TO LINTEL INSTALLATION.
 - PROVIDE STEEL PACKING AS REQUIRED TO PROVIDE EVEN BEARING OF STEEL LINTELS.
 - DESIGN AND PROVIDE TEMPORARY SHORING AS REQUIRED.
 - FOR LINTELS WHICH ARE SHADED IN SCHEDULE. SPECIAL DETAIL FOR CONNECTION TO CONCRETE WALL IS REQUIRED.
 - FOR FIRE PROTECTIONS OF LINTELS LONGER THAN 3000 (10'-0"), SEE ARCHITECTURAL DRAWINGS AND SPECS.

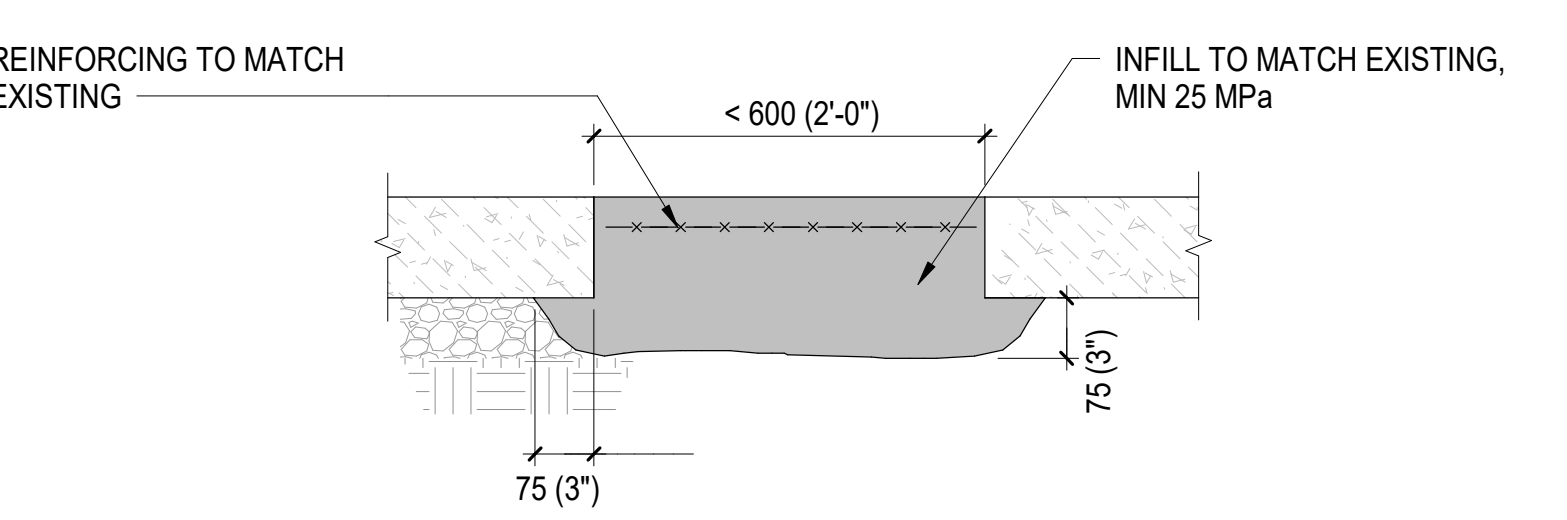
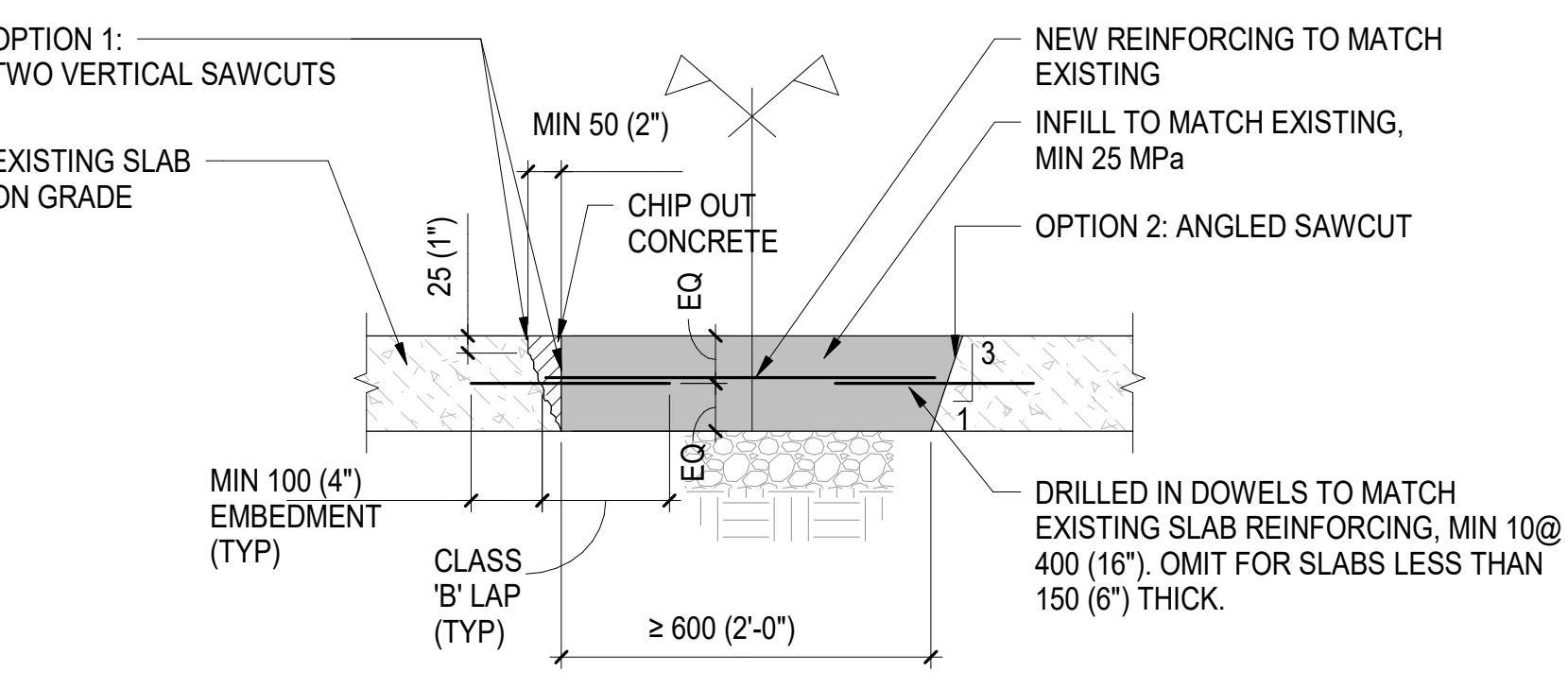
| WALL THICKNESS | SPAN | HEIGHT OF SUPPORTED MASONRY "h" | | | DETAIL |
|------------------------|--------------------------------|---------------------------------|---------------------------------|----------------------------------|--------|
| | | h ≤ 1200 (4'-0") | 1200 (4'-0") < h ≤ 2800 (8'-4") | 2800 (8'-4") ≤ h ≤ 4800 (16'-0") | |
| 140 (6") (PWE/PW2A) | UP TO 1200 (4'-0") | 2-L64x64x6.4 | 2-L64x64x6.4 | 2-L64x64x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | 2-L64x64x6.4 | 2-L76x64x7.9 | L89x64x7.9 | |
| | 1800 (6'-0") TO 2400 (8'-0") | 2-L76x64x7.9 | N/A | N/A | |
| | 2400 (8'-0") TO 3000 (10'-0") | 2-L89x64x9.5 | N/A | N/A | |
| | 3000 (10'-0") TO 3600 (12'-0") | N/A | N/A | N/A | |
| 190 (8") (PWE) | UP TO 1200 (4'-0") | 2-L89x89x6.4 | 2-L89x89x6.4 | 2-L89x89x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | 2-L89x89x6.4 | 2-L89x89x6.4 | 2-L102x89x6.4 | |
| | 1800 (6'-0") TO 2400 (8'-0") | 2-L89x89x6.4 | 2-L102x89x7.9 | 2-L127x89x7.9 | |
| | 2400 (8'-0") TO 3000 (10'-0") | 2-L102x89x7.9 | 2-L152x89x9.5 | 2-L152x89x9.5 | |
| | 3000 (10'-0") TO 3600 (12'-0") | 2-L127x89x7.9 | 2-L152x89x9.5 | N/A | |

*AT LEAST ONE END CONNECTION TO CONCRETE SHEARWALL
**WIDEN EXISTING OPENING. WORK TO INSTALL ONE SIDE AT A TIME



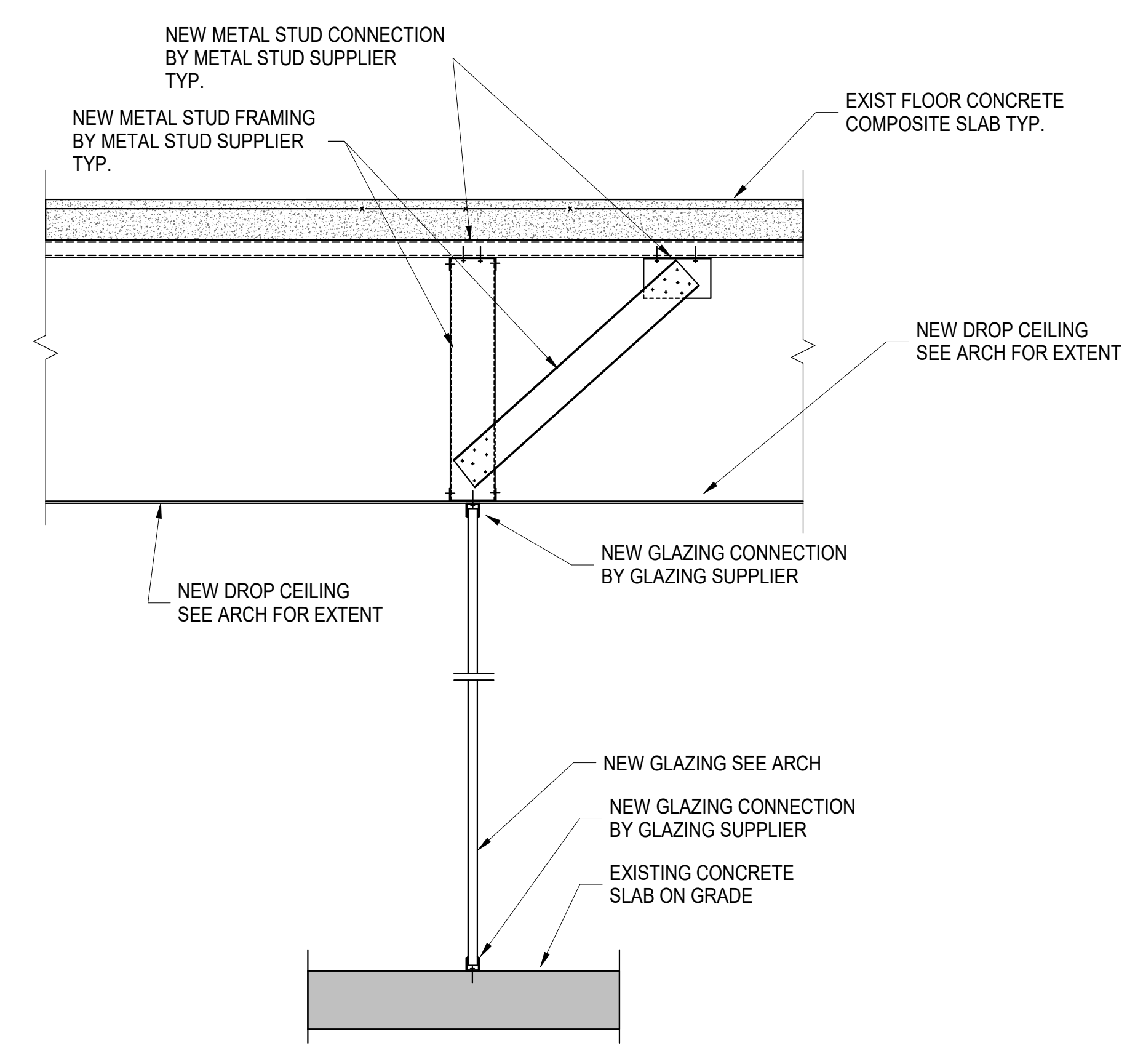
STANDARD STEEL LINTELS IN EXISTING NON LOAD BEARING MASONRY WALLS

1 SCALE: NOT TO SCALE



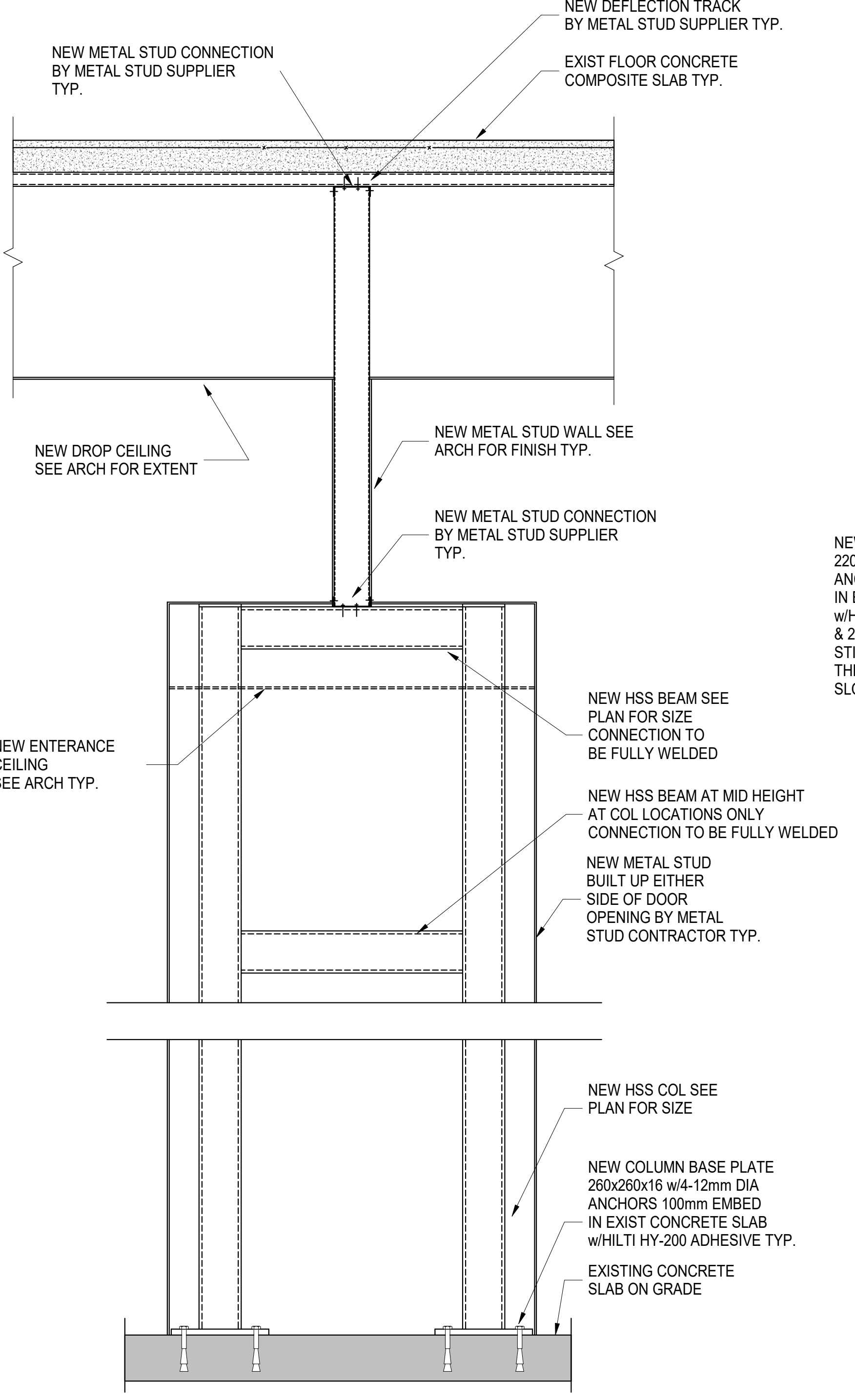
EXISTING SLAB ON GRADE INFILL

2 SCALE: NOT TO SCALE



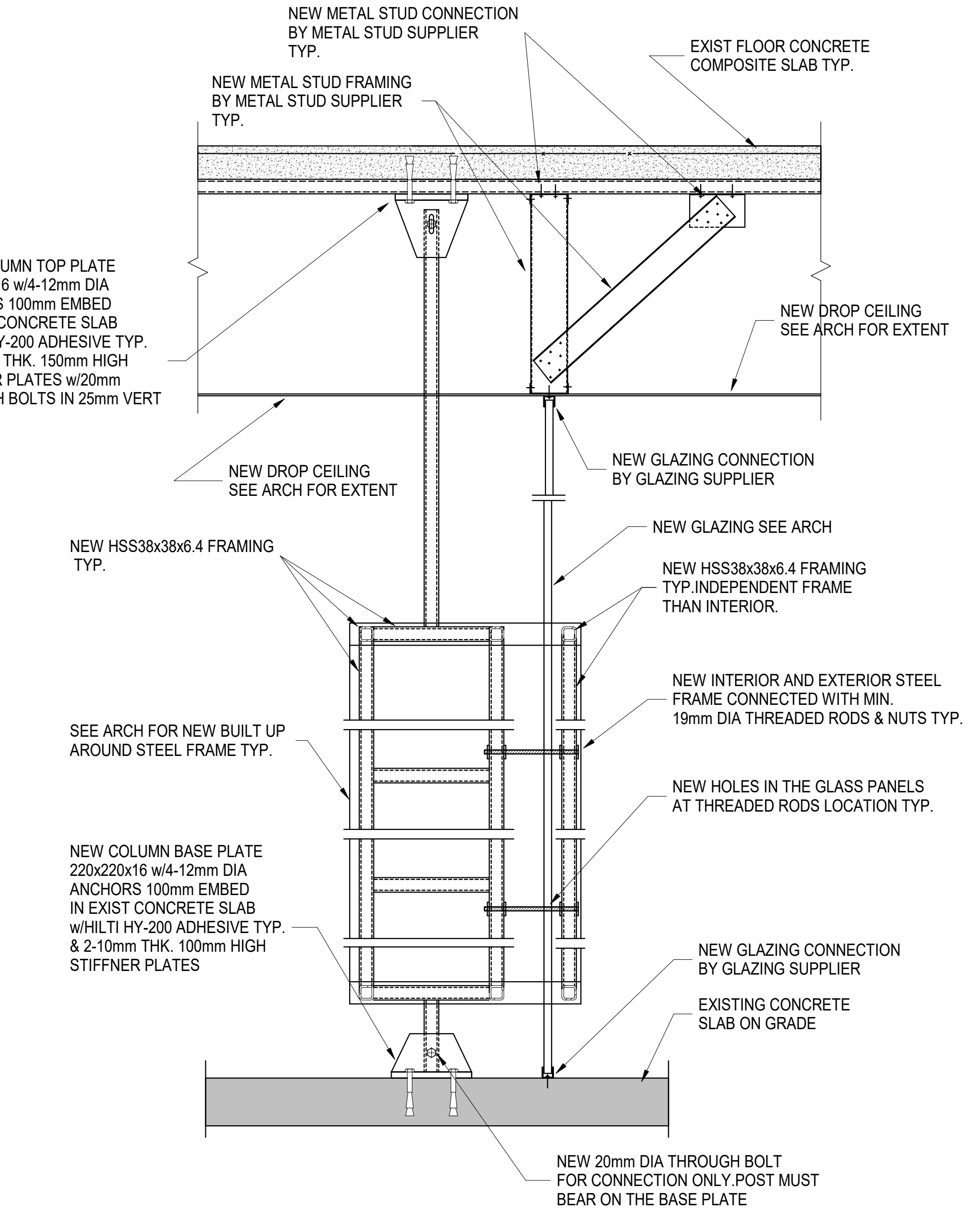
CURTAIN WALL AT BOOK STORE

3 SCALE: NOT TO SCALE



CURTAIN WALL AT BOOK STORE ENTRANCE

5 SCALE: NOT TO SCALE

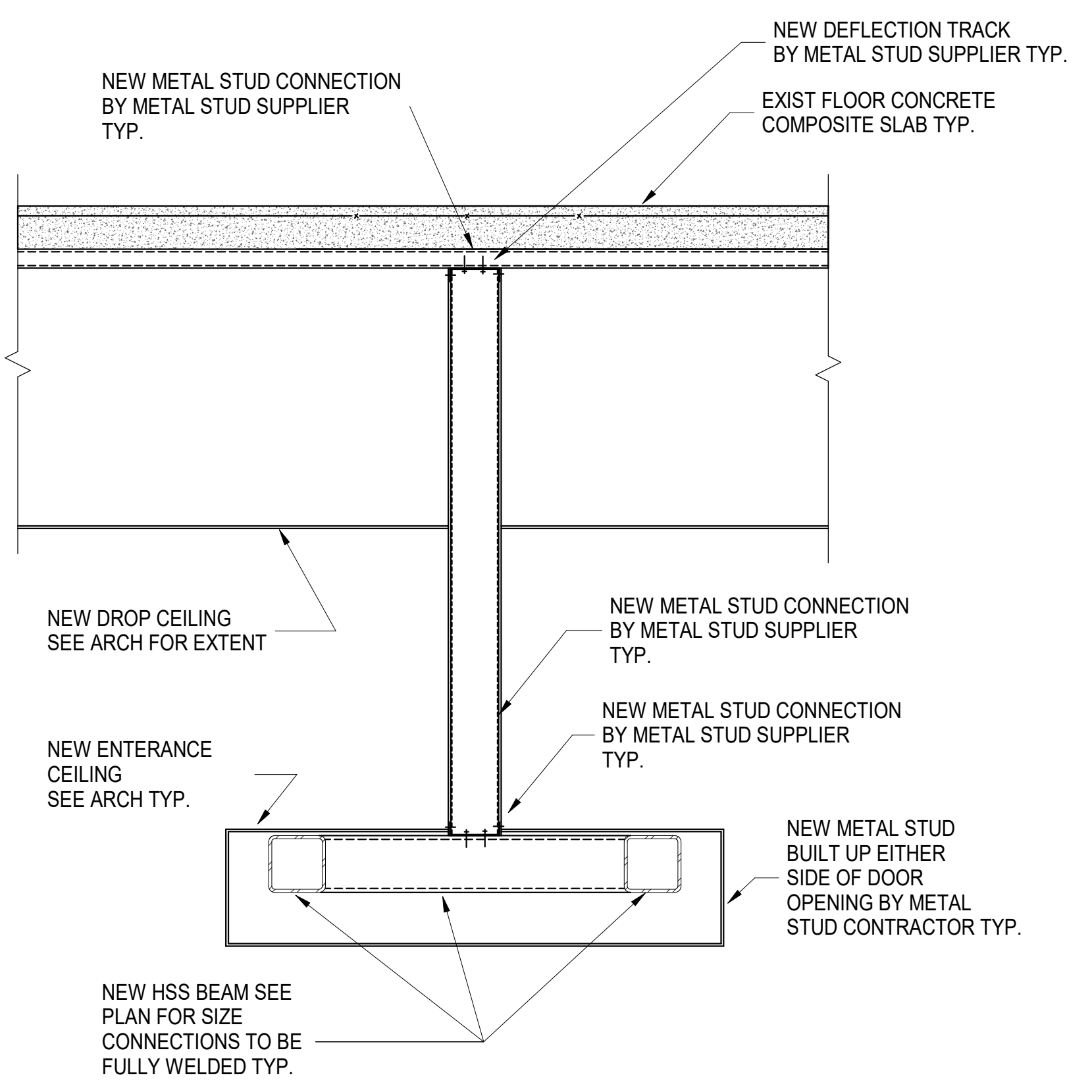


DISPLAY POD IN BOOK STORE

7 SCALE: NOT TO SCALE

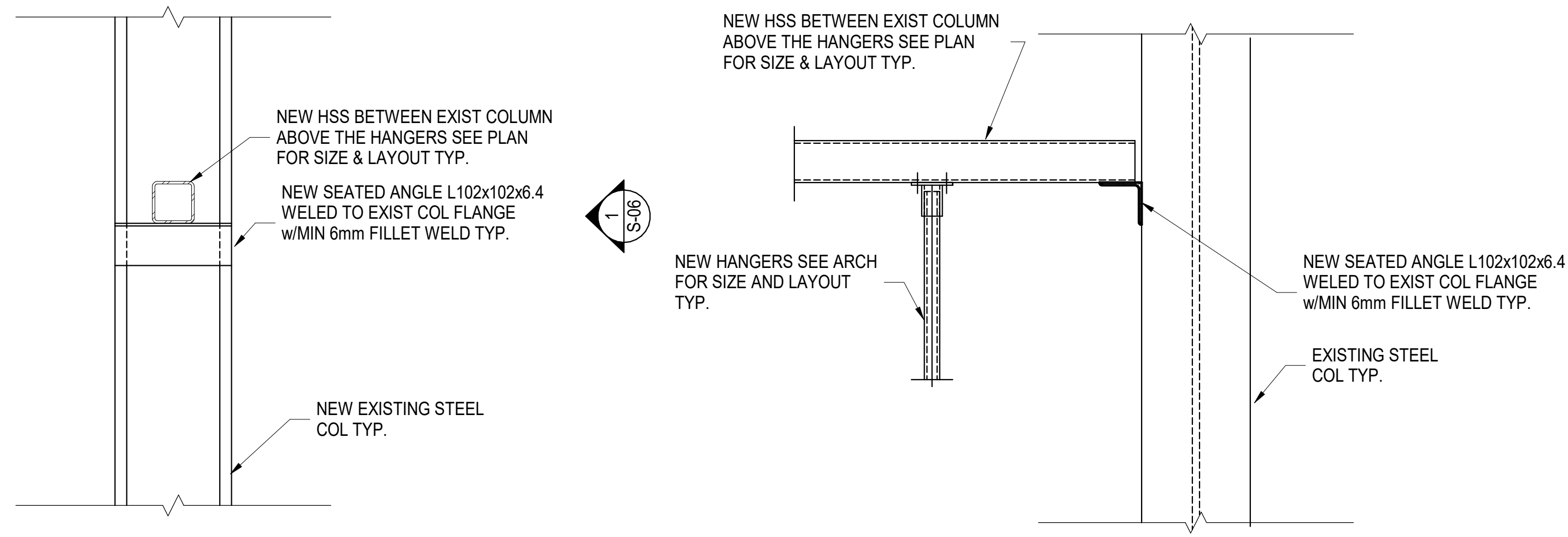
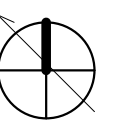
CURTAIN WALL AT RETAIL AREA TOWN SQUARE

4 SCALE: NOT TO SCALE



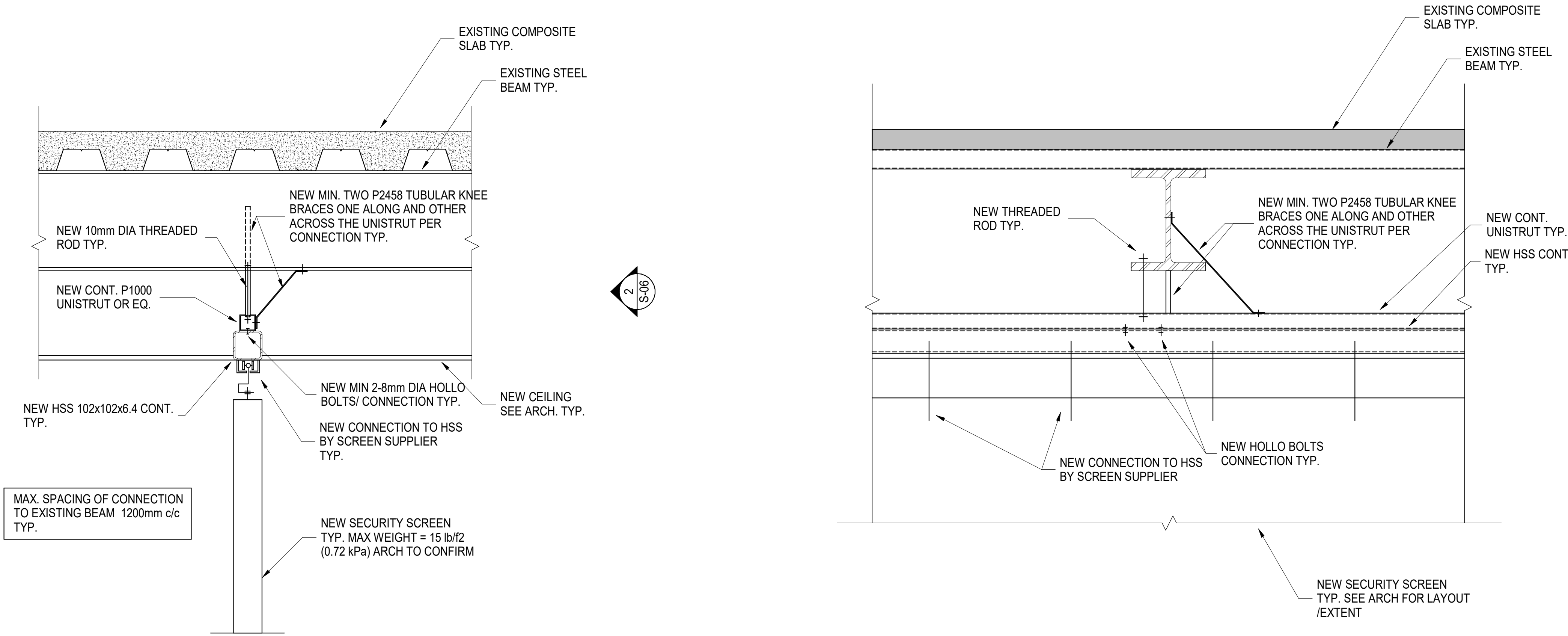
CURTAIN WALL AT BOOK STORE ENTRANCE

6 SCALE: NOT TO SCALE



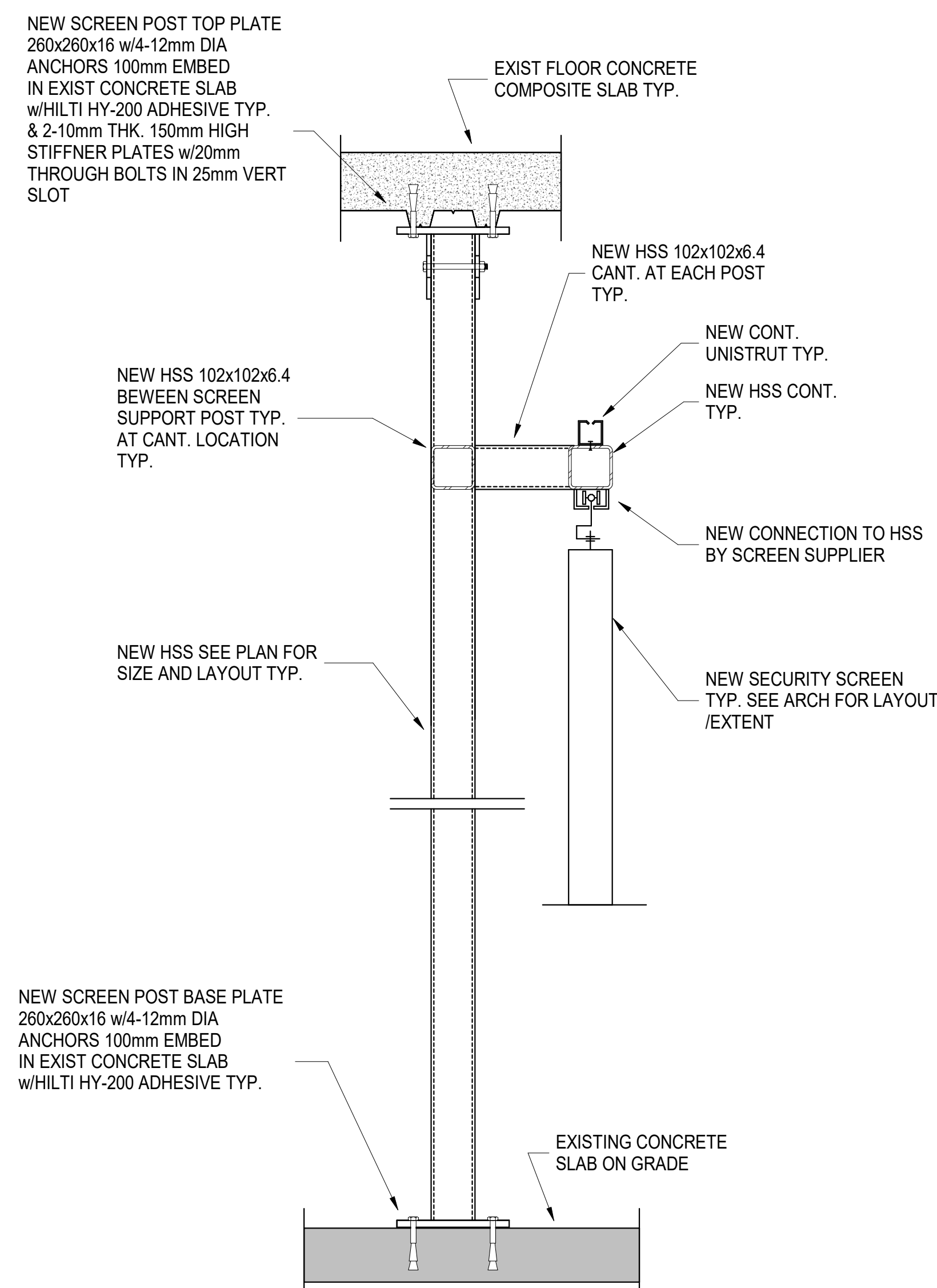
1 DISPLAY HANGER DETAIL

SCALE: NOT TO SCALE



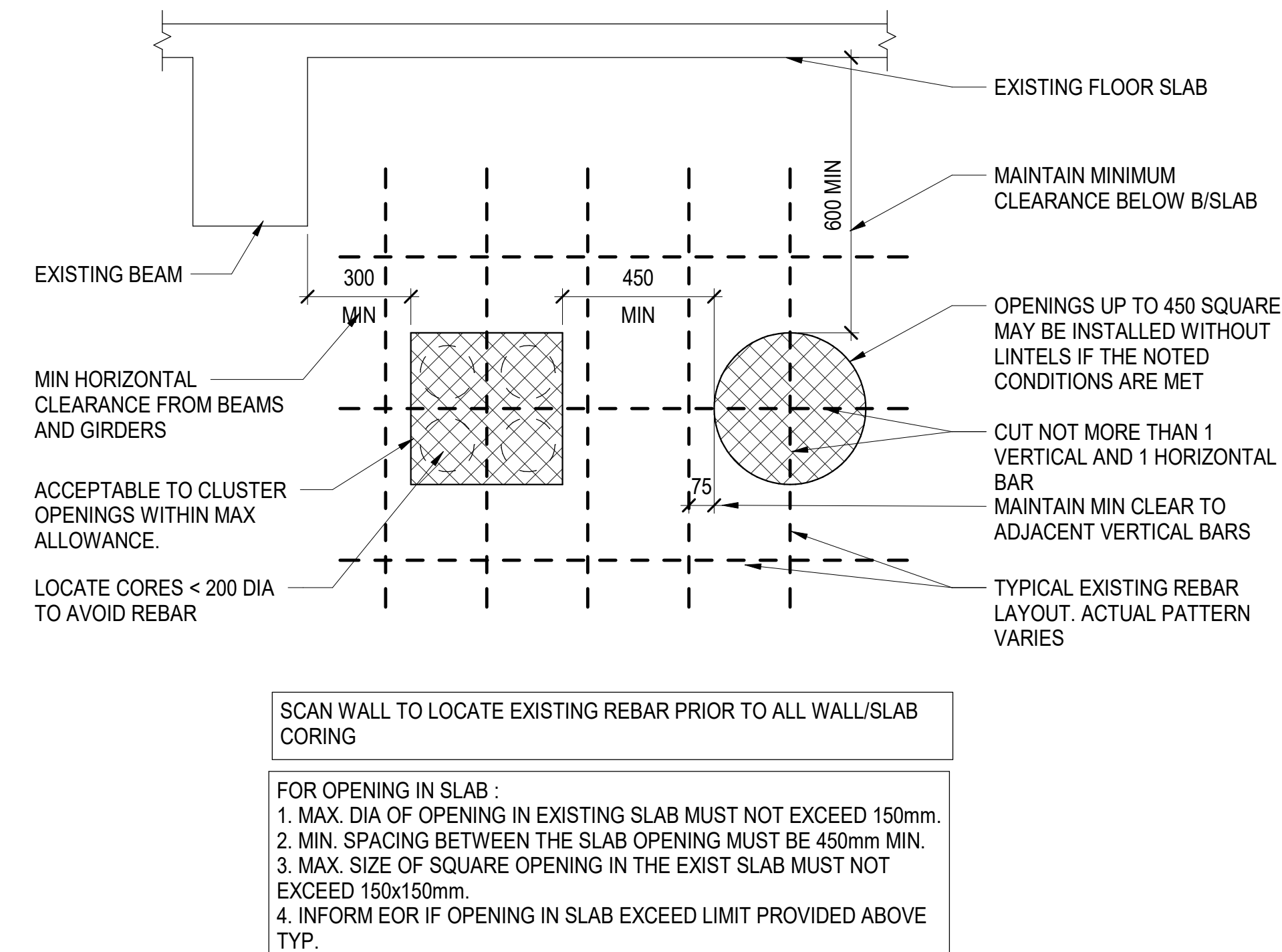
2 SECURITY SCREEN DETAIL (EXTENDED)

SCALE: NOT TO SCALE



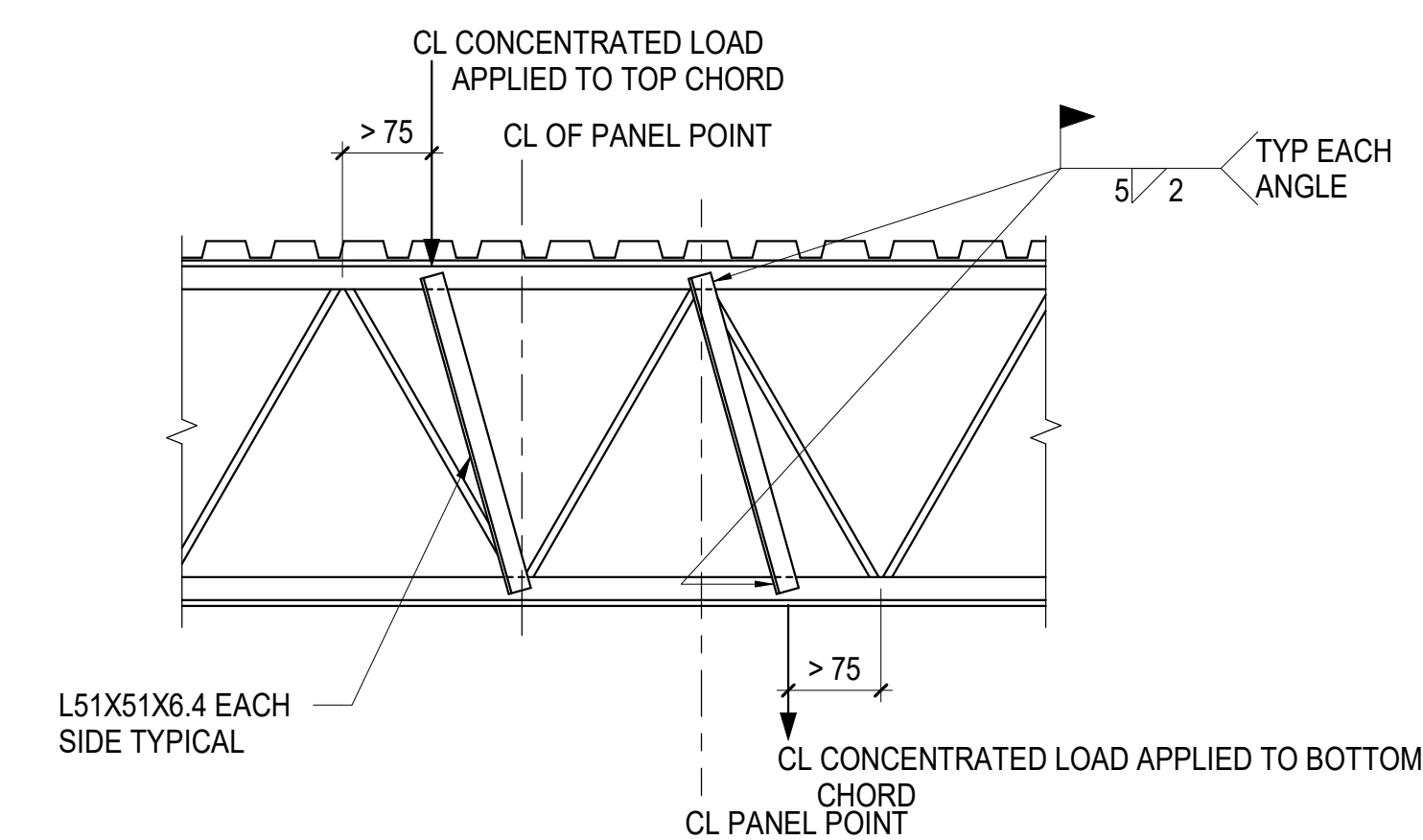
3 SECURITY SCREEN (FOLDED DETAIL)

SCALE: NOT TO SCALE



4 SMALL OPENINGS IN CONCRETE WALL/SLAB

SCALE: 1: 15



NOTES:

- THE TOTAL SUPERIMPOSED LOAD ON ANY JOIST SHALL NOT EXCEED THE LOADING SHOWN ON THE STRUCTURAL DRAWINGS INCLUDING CONCENTRATED AND UNIFORM LOADS. CONTRACTOR SHALL COORDINATE ALL SUBCONTRACTORS HANGING METHODS, LOCATIONS, AND LOADS WITH LIMITS PROVIDED IN STRUCTURAL DRAWINGS.
- HANGING CONCENTRATED LOADS SHALL BE APPLIED CONCENTRIC TO THE JOIST CHORD.
- MAXIMUM SPECIFIED DROP CEILING LOAD MUST NOT EXCEED = 0.2 kPa. INFORM EOR IF HANGING CEILING LOAD EXCEED THIS LIMIT
- CONCENTRATED LOADS LOCATED WITHIN 75mm OF THE PANEL POINT CAN BE CONSIDERED TO ACT AT THE PANEL POINT.
- FOR CONCENTRATED LOADS THAT DO NOT MEET THE CRITERIA OF NOTES 3 AND 4, PROVIDE JOIST REINFORCEMENT PER THIS DETAIL. TOTAL LOAD APPLIED TO THE JOIST MUST SATISFY NOTE 1.

5 TYPICAL JOIST REINFORCEMENT AT CONCENTRATED CEILING HANGER LOAD

SCALE: NOT TO SCALE



| NUMBER | DATE | REVISIONS |
|--------|-----------|--------------------------|
| 4 | 5/27/2022 | Issued for Tender |
| 3 | 4/19/2022 | Issued for 90% CD |
| 2 | 3/24/2022 | Issued for Client Review |
| 1 | 3/3/2022 | Issued For Client Review |

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED.
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SEALS

PROJECT TITLE
HUMER COLLEGE PHASE 4
BOOK STORE RENOVATION

205 HUMER COLLEGE BLVD
ETOBICOKE ON

DRAWING TITLE
DETAILS & SECTIONS

DRAWN BY
Author

SCALE
As indicated

DATE
05/27/2022

CHECKED BY
Checker

PROJECT NUMBER
1022003.00

DRAWING NUMBER