## 010000 GENERAL

- 1. CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE 2012, O.REG. 332/12, INCLUDING O.REG. 88/19, AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION.
- 2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
- 3. BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT
- DISCREPANCIES TO THE CONSULTANT. DO NOT SCALE THE DRAWINGS. 4. REFER TO THE ARCHITECTURAL AND OTHER DRAWINGS FOR LOCATIONS AND DIMENSIONING OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. ASSUME TYPICAL DETAILS APPLY, HOWEVER, OBTAIN THE CONSULTANT'S PRIOR APPROVAL BEFORE INSTALLING OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- 5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS. ADJUST UNDERSIDE ELEVATIONS OF FOOTINGS AS REQUIRED TO AVOID UNDERMINING THE FOOTINGS AND FOUNDATIONS.
- 6. HORIZONTAL AND VERTICAL DESIGN LOADS ARE NOTED. THEY SHALL NOT BE EXCEEDED DURING CONSTRUCTION
- 7. TYPICAL STRUCTURAL DETAILS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON THE DRAWINGS, THE MOST STRINGENT SHALL GOVERN.
- 8. CONTRACTOR TO PROVIDE AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY WORKS.
- 9. THE INFORMATION SHOWN ON STRUCTURAL DRAWINGS PLUS THE REQUIREMENTS OUTLINED IN SPECIFICATIONS REPRESENT THE BUILDING IN ITS FINISHED STATE. CONTRACTOR TO REVIEW THESE REQUIREMENTS AND DETERMINE ALL TEMPORARY WORKS REQUIRED TO COMPLETE THE STRUCTURE PER CONTRACT DOCUMENTS INCLUDING MEANS, METHODS, TECHINQUES, SEQUENCES, PROCEDURES, TEMPORARY SHORING AND/OR BRACING, TEMPORARY OPENINGS, EXCAVATION SHORING, ERECTION PROCEDURES, ETC.
- 10. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

## 010001 DESIGN NOTES

- 1. THE BUILDING IS DESIGNATED AS BELONGING TO THE NORMAL IMPORTANCE CATEGORY, AS DEFINED IN THE OBC 2012.
- 2. ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD
- A23.3. 3. ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S16.
- 4. LATERAL FORCES ON STRUCTURAL FRAME
- a) THE LATERAL FORCES ARE RESISTED BY THE STEEL BRACED FRAME AND MOMENT FRAME SYSTEMS. b) THE FRAME IS NOT STABLE UNTIL THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
- c) WIND:
- THE DESIGN OF THE STRUCTURE FOR WIND IS BASED ON AN HOURLY WIND PRESSURE OF 0.32 kPa (BASED ON 1/50 YEAR RETURN).
- ii. EXPOSURE CONDITION: ROUGH TERRAIN.
- iii. THE IMPORTANCE FACTOR, Iw, FOR WIND DESIGN IS 1.0. FOR DEFLECTION ANALYSIS, THE
- FACTOR IS 0.75 iv. THE DESIGN WIND FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 AND WITH THE STATIC PROCEDURE DESCRIBED IN THE USER'S GUIDE -
- NBC 2010 STRUCTURAL COMMENTARIES (PART 4). d) EARTHQUAKE
- i. THE DESIGN OF THE STRUCTURE FOR EARTHQUAKE IS BASED ON:
- le = 1.0
- SITE CLASS = D
- Sa(0.2) = .151
- Sa(0.5) = .105
- Sa(1.0) = .063 • Sa(2.0) = .032
- PGA = .090
- Rd = 1.5
- Ro = 1.3
- Fa = 1.24
- Fv = 1.55
- Mv = 1.0
- ii. THE SEISMIC HAZARD INDEX FOR THIS SITE IS:
- IEFaSa(0.2) = 0.24
- iii. THE STRUCTURE HAS BEEN DESIGNED FOR:
- N/S DIRECTION
- BASE SHEAR = 385 kN
- BASE MOMENT = 2545 kNm
- E/W DIRECTION
- BASE SHEAR = 385 kN
- BASE MOMENT = 2545 kNm
- iv. THE DESIGN EARTHQUAKE FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012.
- v. THE BUILDING'S STRUCTURAL CONFIGURATION IS DESIGNATED AS REGULAR.
- 5. LATERAL FORCES ON FOUNDATION WALLS
- a) WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND A HORIZONTAL PRESSURE AT ANY DEPTH (h) GIVEN BY THE EXPRESSION:
- $P = K (\gamma h + q)$ , WHERE

### K IS THE LATERAL EARTH PRESSURE COEFFICENT

- P IS THE PRESSURE EXERTED HORIZONTALLY
- h IS THE DEPTH BELOW GRADE
- Y IS THE UNIT WEIGHT OF SOIL
- q IS THE SURCHARGE ON THE GROUND SURFACE b) THE ADDITIONAL SEISMIC PRESSURE CONSIDERED IN CONJUNCTION WITH THE STATIC PRESSURE ABOVE IS GIVEN BY THE EXPRESSION:
- $P = 0.75 \text{ k} \gamma (H h)$ , FOR A NON RIGID WALL
- P = 0.25 k γ H {1 [(H 2h)/H]<sup>2</sup>}, FOR A RIGID WALL
  - WHERE

k = ## IS THE DESIGN PEAK HORIZONTAL GROUND ACCELERATION COEFFICENT (Fa x PGA) H IS THE HEIGHT OF GRADE ABOVE THE LOWEST LATERAL

- RESTRAINT
- c) FOUNDATION AND OTHER WALLS RETAINING EARTH HAVE BEEN DESIGNED FOR SURCHARGE OF 12 kPa.
- d) THE WALLS HAVE BEEN DESIGNED ASSUMING THAT THERE IS FREE-DRAINING BACKFILL, OR THAT OTHER PROVISIONS HAVE BEEN MADE, SUCH THAT THE WALLS ARE NOT SUBJECT TO HYDROSTATIC PRESSURE.
- 6. SNOW LOADS ON ROOFS
- a) THE ROOFS HAVE BEEN DESIGNED WITH Ss = 3.1 kPa AND Sr = 0.4 kPa.
- b) THE IMPORTANCE FACTOR, Is, IS 1.0 FOR ULS AND 0.9 FOR SLS.
- c) ADDITIONAL SNOW ACCUMULATIONS ADJACENT TO HIGHER WALLS, ROOFS AND MECHANICAL UNITS ARE INDICATED ON THE DRAWINGS.
- 7. RAINWATER LOADS ON ROOFS
- a) THE ROOFS HAVE BEEN DESIGNED FOR NO FLOW.
- 8. WIND UPLIFT OF ROOFS
- a) ALL ROOF ELEMENTS INCLUDING JOISTS, METAL DECK, AND THEIR CONNECTIONS TO THE STRUCTURE ARE TO BE DESIGNED FOR UPWARD SUCTION DUE TO WIND. THE NET UPWARD DESIGN PRESSURES ARE SHOWN ON THE KEY PLAN BELOW.
- 9. LIVE AND OTHER LOADS
- a) SEE NOTES BELOW FLOOR PLANS.

- 10. FUTURE EXTENSIONS
- a) THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSIONS

## 010004 SUBMITTALS

- 1. GEOMETRY GEOMETRY.
- 2. CONCRETE AND REINFORCEMENT
- FROM EACH LOAD OF CONCRETE, TO BE TESTED; 1 AT 7 DAYS AND 2 AT 28 DAYS.
- 3. STRUCTURAL STEEL
- CODE FOR THE FORCES SHOWN ON THE DRAWINGS b) SUBMIT SKETCHES AND DESIGN CALCULATIONS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN PROVINCE OF ONTARIO FOR NON STANDARD
- CONNECTIONS c) SUBMIT SHOP, ERECTION, AND SETTING DRAWINGS FOR REVIEW BY THE CONSULTANT.
- THE PROVINCE OF ONTARIO.
- 4. STEEL JOISTS
- CODE FOR THE FORCES SHOWN ON THE DRAWINGS.
- b) SUBMIT SHOP DETAILS AND ERECTION DRAWINGS FOR REVIEW BY THE CONSULTANT.
- THE PROVINCE OF ONTARIO. 5. METAL DECK
- SHOWN ON THE DRAWINGS.
- LICENSED IN THE PROVINCE OF ONTARIO.
- 6. LIGHTWEIGHT STEEL FRAMING

# LICENSED IN THE PROVINCE OF ONTARIO, FOR REVIEW BY THE CONSULTANT.

## 030000 CONCRETE

- 1. MATERIALS
- a) CONCRETE
- CONTENT
- ii. NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 20 mm. USE SMALLER AGGREGATES AS MODIFY MIX DESIGNS TO SUIT.

CATEGORY	DESCRIPTION	EXPOSUR E CLASS PER A23.1	CONCRETE STRENGTH f'c (MPa)	MAX. W/C RATIO	AIR CONTENT <sup>1</sup>	SCOPE
CM 1	FOUNDATION MIX		25		5%-8%	FOOTINGS AND CAPS
CM 2	SLAB ON GRADE MIX		25			INTERIOR SLABS ON GRADE
CM 5	TOPPING MIX		20			TOPPINGS ON CONCRETE.
CM 8	PARKING SLAB AND BEAM MIX	C-1 <sup>2</sup>	35	0.40	5%-8%	FOUNDATION WALLS ADJACENT TO PAVING. FRAMED SLABS AND BEAMS EXPOSED TO DE- ICING CHEMICALS.
CM 9	PAVING MIX	C-2	32	0.45	5%-8%	EXTERIOR PAVING AND SIDWALKS
CM 13	EXTERIOR WALL MIX	F-2	25	0.55	4%-7%	FOUNDATION WALLS AND OTHER WALLS EXPOSED TO FREEZE THAW BUT NOT EXPOSED TO DE-ICING CHEMICALS
CM 14	LEAN MIX		0.4 max. <sup>3</sup>		4-6% (EXTERIO R ONLY)	UNSHRINKABLE FILL
CM 15	SELF CONSOLIDATI NG MIX		30			FOR USE WHERE CONVENTIONAL VIBRATION IS NOT VIABLE

3. MAX. 25kg CEMENT/cu.m.

**REVIEWED BY THE CONSULTANT.** 

REVIEWED BY THE CONSULTANT.

b) CONCRETE COVER TO REINFORCEMENT:

b) REINFORCEMENT:

SHEETS.

a) CONCRETE AND REINFORCEMENT

ii. CONSTRUCTION JOINTS:

BY THE CONSULTANT.

LOCATION OR MEMBER

BEAMS AND GIRDERS

REINFORCEMENT) 35M

(PRINCIPAL

SMALLER

45M

55M

AND SMALLER

SLABS – 25M AND

2. EXECUTION

a) SUBMIT SURVEY RECORDS CONFIRMING THAT THE BUILT GEOMETRY MATCHES THE DESIGN

a) SUBMIT REINFORCING PLACING DRAWINGS AND BAR LISTS FOR REVIEW BY THE CONSULTANT. b) PROVIDE TEST CYLINDERS IN ACCORDANCE WITH CAN3-A23.1 BUT A MINIMUM OF 3 CYLINDERS

a) DESIGN DETAILS, CONNECTIONS, AND THE LIKE IN ACCORDANCE WITH THE ONTARIO BUILDING

d) ENSURE FABRICATOR DRAWINGS SHOWING DESIGNED ASSEMBLIES, COMPONENTS AND CONNECTIONS ARE STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN

a) DESIGN STEEL JOISTS, BRIDGING, AND THE LIKE IN ACCORDANCE WITH THE ONTARIO BUILDING

c) SUBMIT DRAWINGS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN

a) DESIGN DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CAN/CSA-S136, FOR THE FORCES

b) SUBMIT SHOP DRAWINGS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER

a) SUBMIT SHOP AND ERECTION DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER

### CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS CONTENT AND AIR

## APPROPRIATE IN AREAS OF CONGESTED REINFORCING STEEL OR TO IMPROVE WORKABILITY.

1. WHERE AGGREGATES SMALLER THAN 14 mm ARE USED, INCREASE AIR CONTENT BY

2. REINFORCED CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE DCI CORROSION INHIBITOR @ 11L/cu.m. DOSAGE OR APPROVED EQUIVALENT

i. CONFORM TO THE REQUIREMENTS OF CSA STANDARD G30 SERIES.

ii. REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH fy = 400 MPa, AND WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF fy = 386 MPa, SUPPLY IN FLAT

iii. WHERE WELDING OF REBAR IS INDICATED, WELDABLE GRADE REBAR SHALL BE USED.

PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN EXCEPT WHEN NOTED OTHERWISE.

HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS OR JOISTS, UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.

VERTICAL CONSTRUCTION JOINS MAY BE MADE ONLY AT MID-SPAN OF BEAMS, JOISTS, AND SLABS UNLESS OTHERWISE SHOWN OR DIRECTED AND THEIR LOCATION SHALL BE

PROVIDE 38x89 KEYS AT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.

iii. NO SLEEVES TO BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS WITHOUT BEING iv. NO OPENINGS SHALL BE MADE IN FLAT SLAB COLUMN STRIPS UNLESS SHOWN OR REVIEWED

v. WELDING OF REBAR SHALL BE DONE IN ACCORDANCE WITH CSA W186.

CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR COVER TO REINFORCEMENT (mm):

• NOT EXPOSED (N) AND FOR FIRE RATING:

UP TO 1

45

55

25

FIRE	RATING (HC	URS)	
1.5	2	3	4
40	40	40	50
45	45	45	50
55	55	55	55
25	25	35	40

			1		1
30M	30	30	30	35	40
35M	35	35	35	35	40
45M	45	45	45	45	45
55M	55	55	55	55	55
COLUMNS (VERTICAL BARS) – 35M AND SMALLER	40	40	50	50	63
45M	45	45	50	50	63
55M	55	55	55	55	63
WALLS – 25M AND SMALLER	25	40	50	50	63
30M	30	40	50	50	63
35M	35	40	50	50	63
45M	45	45	50	50	63
55M	55	55	55	55	63
STIRRUPS AND TIES			30		

ii. ADDITIONAL COVER REQUIREMENTS AS APPLICABLE:

 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 35M BARS AND SMALLER: 75mm

- 45M BARS AND LARGER: 2x THE NOMINAL BAR DIAMETER
- CONCRETE EXPOSED TO CHLORIDES (C-1, C-3) (DOES NOT INCLUDE CONCRETE PROTECTED BY A WATERPROOFING MEMBRANE):
- 30M BARS AND SMALLER: 60mm 35M BARS AND LARGER: 2x THE NOMINAL BAR DIAMETER
- EXPOSED TO EARTH OR WEATHER (F-1, F-2)
- 25M AND SMALLER: 40mm
- 30M BARS AND LARGER: 1.5x THE NOMINAL BAR DIAMETER

## c) PROTECTION

i. PROTECT CONCRETE EXPOSED TO DE-ICING SALTS IN ACCORDANCE WITH THE FOLLOWING TABLE. REFER TOTHE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR PROTECTION.

CATEGORY	DESCRIPTION	SCOPE
CP 0	UNPROTECTED CONCRETE	ALL CONCRETE NOT DESIGNATED AS PROTECTED BELOW.
CP 1	EPOXY COATED REBAR	NONE
CP 2	STAINLESS STEEL REBAR	NONE
CP 3	DCI CORROSION INHIBITOR	ALL CONCRETE EXPOSED TO WEATHER AT GRADE (NOT PROTECTED BY A MEMBRANCE) INCLUDING CURBS AND WALLS.
CP 4	CATHODIC PROTECTION	NONE

d) WATERSTOPS

i. PROVIDE WATERSTOPS AT ALL CONCRETE JOINTS MORE THAN 600 MM BELOW GRADE.

## 050000 STRUCTURAL STEEL

- 1. MATERIALS
- a) WIDE FLANGE SHAPES CONFORM TO THE REQUIREMENTS OF ASTM A992/A992M, Fy=345MPa b) HSS MEMBERS - CONFORM TO THE REQUIREMENTS OF G40.21 350W CLASS C
- NOTE THAT ASTM A500 IS NOT AN ACCEPTABLE ALTERNATE FOR HSS MEMBERS WITHOUT REVIEW AND RESIZING (INCREASED SECTION SIZE OR WALL THICKNESS) BY THE CONSULTANT. ii. HSS PRODUCED TO ASTM A1085 IS AN ACCEPTABLE ALTERNATE TO CSA G40.21 350W CLASS C.
- c) CHANNELS AND ANGLES CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 350W d) PIPE - ASTM A53/A53M
- e) BOLTS, NUTS AND WASHERS "[ASTM F3125, GRADE A325]"
- f) WELDS- CONFORM WITH CSA W59-03
- g) HEADED STUD- CONFORM TO CSA W59 APPENDIX H, WITH TENSILE STRENGTH OF 450MPa AND YIELD STRENGTH OF 350MPa
- h) ANCHOR RODS CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W UNLESS NOTED OTHERWISE
- i) ALL OTHER CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W
- j) STEEL JOISTS CONFORM TO CAN/CSA-S16-09
- k) METAL DECK: CONFORM TO THE REQUIREMENTS OF CAN/CSA-S136-07.
- i. SHERWIN WILLIAMS B66W1 DTM ACRYLIC PRIMER/FINISH
- ii. PPG PITT-TECH 90-712 DTM PRIMER/FINISH
- I) SHOP PRIMER: PHENOLIC ALKYD PRIMER
- i. DEVGUARD 4360 LOW VOC UNIVERSAL PRIMER
- ii. SHERWIN WILLIAMS B50 KEM BOND HS UNIVERSAL METAL PRIMER
- iii. PPG AMERCOAT 185H UNIVERSAL PHENOLIC PRIMER
- m) REPAIR PRIMER FOR APPLICATION IN THE FIELD, WATER BASED ACRYLIC: i. DEVFLEX 4020PF DIRECT TO METAL PRIMER
- ii. SHERWIN WILLIAMS PRO-CRYL B66-310 SERIES UNIVERSAL PRIMER
- iii. PPG PITT-TECH PLUS 90-912 SERIES DTM INDUSTRIAL PRIMER
- n) PRIMER FOR STEEL TO RECEIVE INTUMESCENT FIREPROOFING: DETERMINED TO BE ACCEPTABLE BASED ON ADHESION AND COMPATIBILITY CHARACTERISTICS UNDER LABORATORY CONDITIONS IN ACCORDANCE WITH ASTM D3359-09e2, METHOD A AND / OR ASTM D4541-09e1, AND APPROVED BY MANUFACTURER OF INTEMESCENT FIREPROOFING TO BE APPLIED.
- o) PRIMER FOR STEEL TO BE GALVANIZED AND RECEIVE A PAINT FINISH:
- i. SHERWIN WILLIAMS B71Y1 DTM WASH PRIMER
- ii. CARBOLINE SANITILE120 HEAVY DUTY BONDING PRIMER
- iii. PPG PITT-TECH 90-712 SERIES DTM PRIMER
- p) COLD GALVANIZING COATING FOR REPAIR OF GALVANIZED SURFACES
- i. ZRC ZERO-VOC GALVANIZING COMPOUND AS MANUFACTURED BY ZRC WORLDWIDE, MARSHFIELD. MA
- ii. AERVOE INDUSTRIES, INC. 'LOW VOC COLD GALVANIZE COATING 93% ZINC
- q) SHEET RUBBER FOR THERMAL SEPERATION AT STEEL CONNECTIONS: AB-563 EPDM, HARDNESS:60±5 SHORE "A" DUROMETER, 3mm THICKNESS UNLESS OTHERWISE INDICATED, AS MANUFACTURED BY AMERICAN BILTRITE OR APPROVED EQUIVALENT. DISTRIBUTED BY ROBCO (MISISSAUGA) 905-564-6555, GOODALL (OSHAWA) 905-728-1658, OR CHAMBERS AND COOKE (MARKHAM) 905-475-1331.
- r) HEAVY DUTY BITUMINOUS COATING WHERE IN CONTACT WITH SOIL: WOHL COATINGS BB-110 OR APPROVED EQUAL 2. EXECUTION
- a) PROVIDE A MINIMUM BEARING OF 200 mm FOR ALL STEEL BEAMS BEARING ON MASONRY AND A MINIMUM OF 100 mm ON STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.
- b) CENTRE BEARING PLATES UNDER BEAMS, OR AS NOTED.
- c) BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB.
- d) NO STRUCTURAL STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE CONSULTANT e) WHERE COLUMNS ARE STABILIZED BY WALLS PROVIDE COLUMN ANCHORS AT ABUTTING WALLS.
- PROVIDE TEMPORARY BRACING UNTIL WALLS ARE BUILT TIGHT TO COLUMNS.
- PROVIDE FRAMING AROUND ALL OPENINGS IN METAL DECK AS SPECIFIED. REFER TO TYPICAL DETAIL 0504 FOR DETAILS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- a) PROVIDE FULL HEIGHT WEB STIFFENERS AT ALL BEAMS BEARING ON COLUMNS AND ALL BEAMS SUPPORTING COLUMNS. WEB STIFFENERS SHALL BE OF THE SAME SIZE AND THICKNESS AS THE COLUMN FLANGES AND SHALL ALIGN WITH THE FLANGES OF THE SUPPORTING COLUMN.
- h) CONNECT BEAMS FOR THE FACTORED REACTIONS INDICATED ON THE DRAWINGS. IF BEAM REACTIONS ARE NOT INDICATED, THE CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE SIMPLE SPAN BEAM FOR THE GIVEN SPAN PRESENTED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS

- GRADE

053100 STEEL DECKING 1. MATERIALS

- WITHOUT PAINTED FINISH d) LACEMENT OF EXISTING DECK IS REQUIRED.
- 2. EXECUTION

i) STEEL SUPPLIER TO DESIGN AND PROVIDE INTERCONNECTION BETWEEN BUILT UP MEMBERS AS NOTED. WHERE NOT NOTED, STEEL SUPPLIER IS TO INTERCONNECT AS REQUIRED TO ENSURE ADEQUATE CAPACITY FOR THE DESIGN FORCES SHOWN OR IMPLIED IN THE DRAWINGS.

j) STEEL SUPPLIER TO DESIGN CONNECTIONS OF SINGLE ANGLE MEMBERS FOR THE FORCES SHOWN OR IMPLIED IN THE DRAWINGS, SUCH THAT CONNECTIONS ARE MADE TO THE SAME LEG EACH END BY WELDING OR WITH A MINIMUM OF TWO BOLTS.

k) DESIGNATE STEEL AS ARCHITECTURALLY EXPOSED IN ACCORDANCE WITH THE FOLLOWING TABLE. \*REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCURAL STEEL (AESS). \*REFER TO THE CISC GUIDE FOR SPECIFYING ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, AVAILABLE AT www.cisc-icca.ca. IN PARTICULAR, REFER TO TABLE 1 - AESS CATEGORY MATRIX AND ASSOCIATED NOTES.

CATEGORY	DESCRIPTION	SCOPE
SSS	STANDARD STRUCTURAL STEEL	ALL STRUCTURAL STEEL NOT DESIGNATED AS AESS BELOW.
AESS 1	BASIC ELEMENTS	EXPOSED COLUMNS
AESS 2	FEATURE ELEMENTS (VIEWED AT A DISTANCE > 6m)	[SCOPE]

I) \*THE ARCHITECT SHALL REVIEW THE AESS STEEL IN PLACE AND DETERMINE ACCEPTABILITY BASED ON THE CATEGORY AND VISUAL SAMPLES (IF APPLICABLE). ADVISE THE CONSULTANT THE SCHEDULE OF THE AESS WORK.

m) APPLY FIELD PRIMER TO WELDS, BOLTS AND AT LOCATIONS WHERE ORIGINAL PRIMER IS DAMAGED, EXCEPT FOR STEEL WHICH IS TO BE LEFT UNCOATED.

n) PRIMERS AND PAINTS USED IN MULTI-COAT SYSTEMS WHERE A FINAL SHOP OR FIELD PAINT FINISH IS TO BE APPLIED SHALL BE SELECTED AND PRE-APPROVED BY THE ARCHITECT BASED ON SURFACE PREPARATION, EXPOSURE CONDITIONS, AND COMPATIBILITY WITH OTHER COATINGS.

a) STEEL DECKING PER PLAN AND CONFORMING TO CAN/CSA-S136 AND THE FOLLOWING;

i. CSSBI 10M FOR ROOF DECKING ii. CSSBI 12M FOR FLOOR DECKING.

b) MINIMUM ZINC COATING OF Z275 FOR EXTERIOR DECKING AND DECKING EXPOSED TO VIEW

c) MINIMUM ZINC COATING OF ZF75 FOR INTERIOR DECKING NOT EXPOSED TO VIEW AND INTERIOR DECKING WITH FIELD APPLIED PAINT SYSTEM.

a) DESIGN DECK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE b) DESIGN AND CONNECT METAL EDGE AND CLOSURE STRIPS, METAL SCREEDS, FLASHINGS AND THE

c) DESIGN FRAMING FOR 450mm OR SMALLER OPENINGS IN ROOF DECK, AND 300mm OR SMALLER OPENINGS IN FLOOR DECK. REINFORCE OPENINGS OVER 150mm, AS REQUIRED.

d) PLACE SHEETS IN MINIMUM 3 SPAN LENGTHS. BEAR ENDS MINIMUM 50mm. e) LAP ENDS OF NON-COMPOSITE DECK UNITS A MINIMUM OF 50mm AND ONLY OVER SUPPORTING MEMBERS

f) AS A MINIMUM, WELD DECK TO SUPPORTS AND PERIMETER ELEMENTS WITH 20mm PUDDLE WELDS AT MAXIMUM 400mm o/c OR EVERY SECOND FLUTE. WHICHEVER IS LESS g) AS A MINIMUM, FASTEN SIDE JOINTS OF DECK UNITS BETWEEN SUPPORTS BY CLINCHING AT 600mm INTERVALS OR WITH 25mm LONG WELDS AT 1000mm INTERVALS.

h) PAINT WELDS AND REPAIR DAMAGED COATING WITH GALVACON COATING.

i) DO THE FOLLOWING WHERE DECKING IS EXPOSED TO VIEW;

i. LAP ENDS OF DECK UNITS ONLY OVER SUPPORTING MEMBERS. NO SEAMS ARE PERMITTED WITHIN SPANS ii. KEEP DECK FREE OF DIRT, SCALE, FOREIGN MATTER, DENTS OR DEFORMATIONS.

iii. KEEP FUSION WELDS WELL WITHIN THE BEARING WIDTH OF SUPPORTING MEMBERS iv. AVOID WELD DAMAGE TO THE DECK OR ITS SUPPORTS

310000 FOUNDATIONS

1. A SOIL INVESTIGATION HAS BEEN DONE BY REDSTONE ENGINEERING AS REPORTED IN THEIR SOIL REPORT NO. 21R110 , DATED JUNE 18, 2021. READ THIS REPORT, AND BE THOROUGHLY FAMILIARIZEL WITH ITS FINDINGS.

2. FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED UNDISTURBED SOIL OR ENGINEERED FILL CAPABLE OF SAFELY SUSTAINING AN ULTIMATE BEARING VALUE OF 135 kPA AND AN ALLOWABLE BEARING VALUE OF 90 kPA.

3. FOUND FOOTINGS EXPOSED TO FREEZING BELOW THE LEVEL AT WHICH POTENTIAL DAMAGE RESULTING FROM FROST ACTION CAN OCCUR, BUT A MINIMUM OF 1500 mm BELOW FINISHED GRADE IF NOT NOTED TO BE FOUNDED LOWER.

4. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. AT STEPS CONSTRUCT LOWER FOOTINGS PRIOR TO CONSTRUCTING HIGHER FOOTINGS

5. PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SAFELY SUSTAINING 25kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS. 6. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS DIRECTLY BELOW SLAB ON

7. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) UNTIL THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALLS IS POURED AND HAS ATTAINED 70% OF ITS SPECIFIED STRENGTH

8. CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 500 mm DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL

9. PROVIDE FOOTINGS AS PER TYPICAL DETAIL 0306 FOR ALL LOAD BEARING MASONRY WALLS AND ALL NON-LOAD BEARING MASONRY WALLS THICKER THAN 190 mm. ALL NON-LOAD BEARING MASONRY WALLS 190 mm OR LESS SHALL REST ON A THICKENING OF THE SLAB ON GRADE AS PER THE TYPICAL DETAIL OR AS NOTED ON DRAWINGS.

Contractor must check and verify all dimensions on the job, and report any discepancies to the Architect before proceedin vith the work.
Do not scale this drawing.
<sup>SSUE:</sup> REVISED ISSUED FOR TENDER/

**ISSUED FOR BUILDING PERMIT** 

8	2022/01/31	REVISED ISSUED FOR TENDER/ ISSUED FOR BUILDING PERMIT
7	2021/09/28	ADDENDUM S2
6	2021/09/14	ADDENDUM S1
5	2021/09/09	ISSUED FOR BUILDING PERMIT
4	2021/08/30	ISSUED FOR TENDER
3	2021/08/25	ISSUED FOR TENDER REVIEW
2	2021/08/11	ISSUED FOR COORDINATION
1	2021/07/16	Issued for Class B Costing
MARK	DATE	DESCRIPTION

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SMITH + ANDERSON MECHANICAL AND ELECTRICAL ENGINEERS 1100-100 SHEPPARD AVENUE EAST TORONTO, ONTARI, M2N 6N5 TEL 416.487.8151

## PROJECT NAME: **NEW SAYERS FOOD** STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

SEAL:

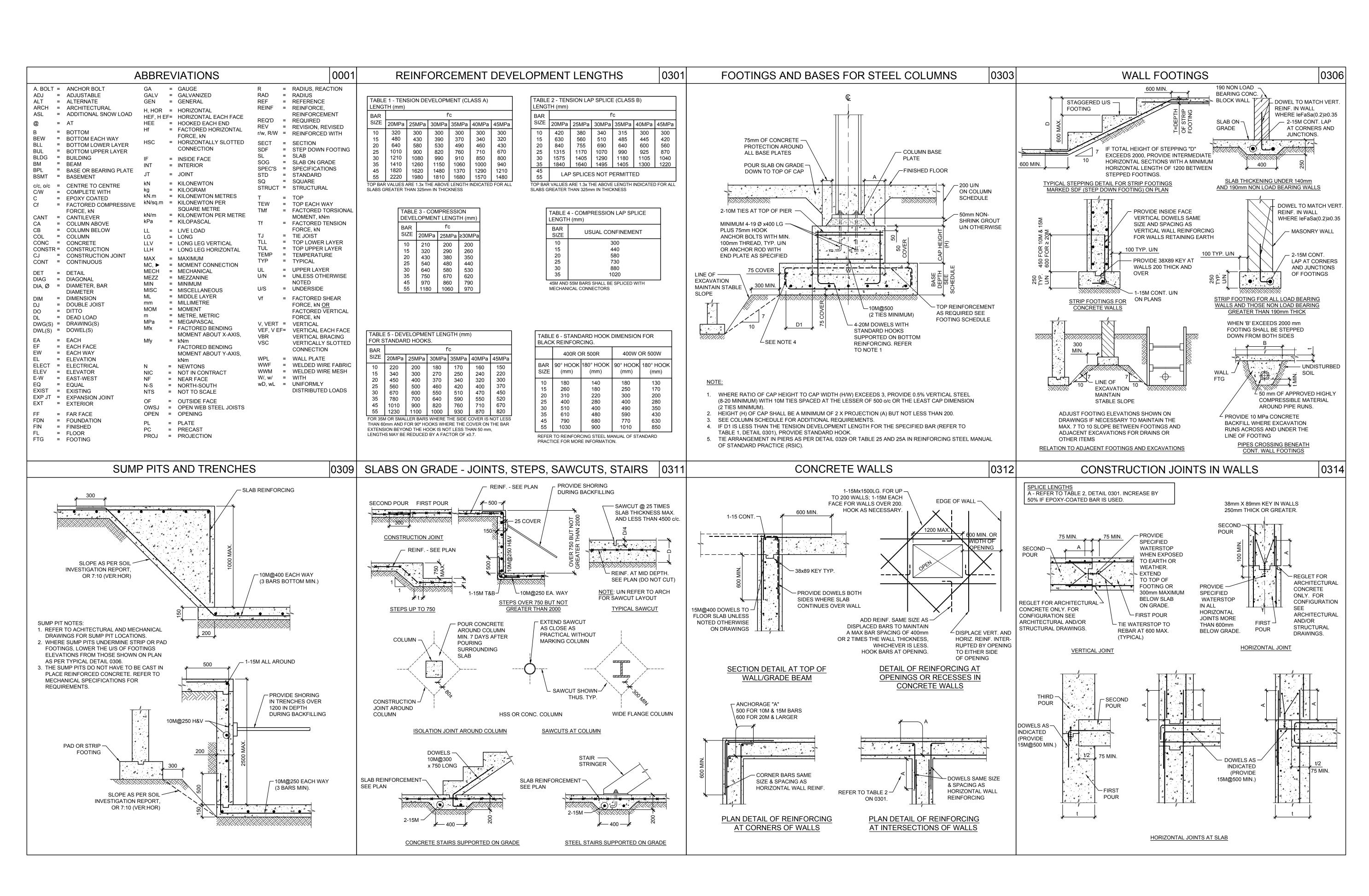
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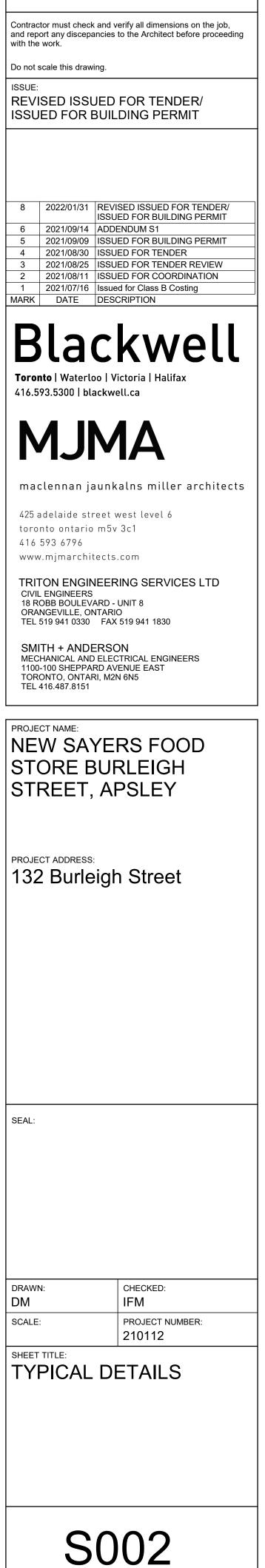
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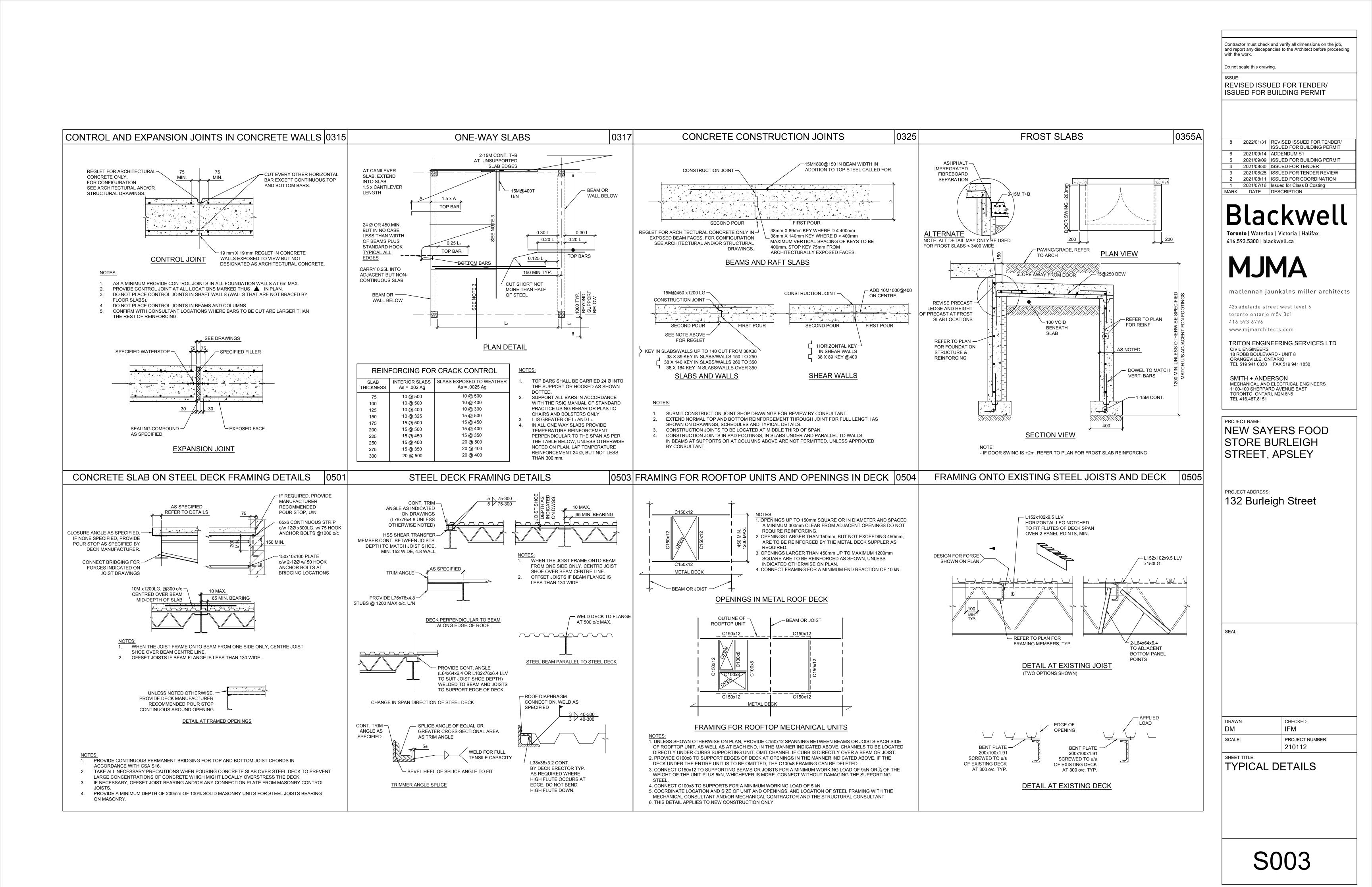
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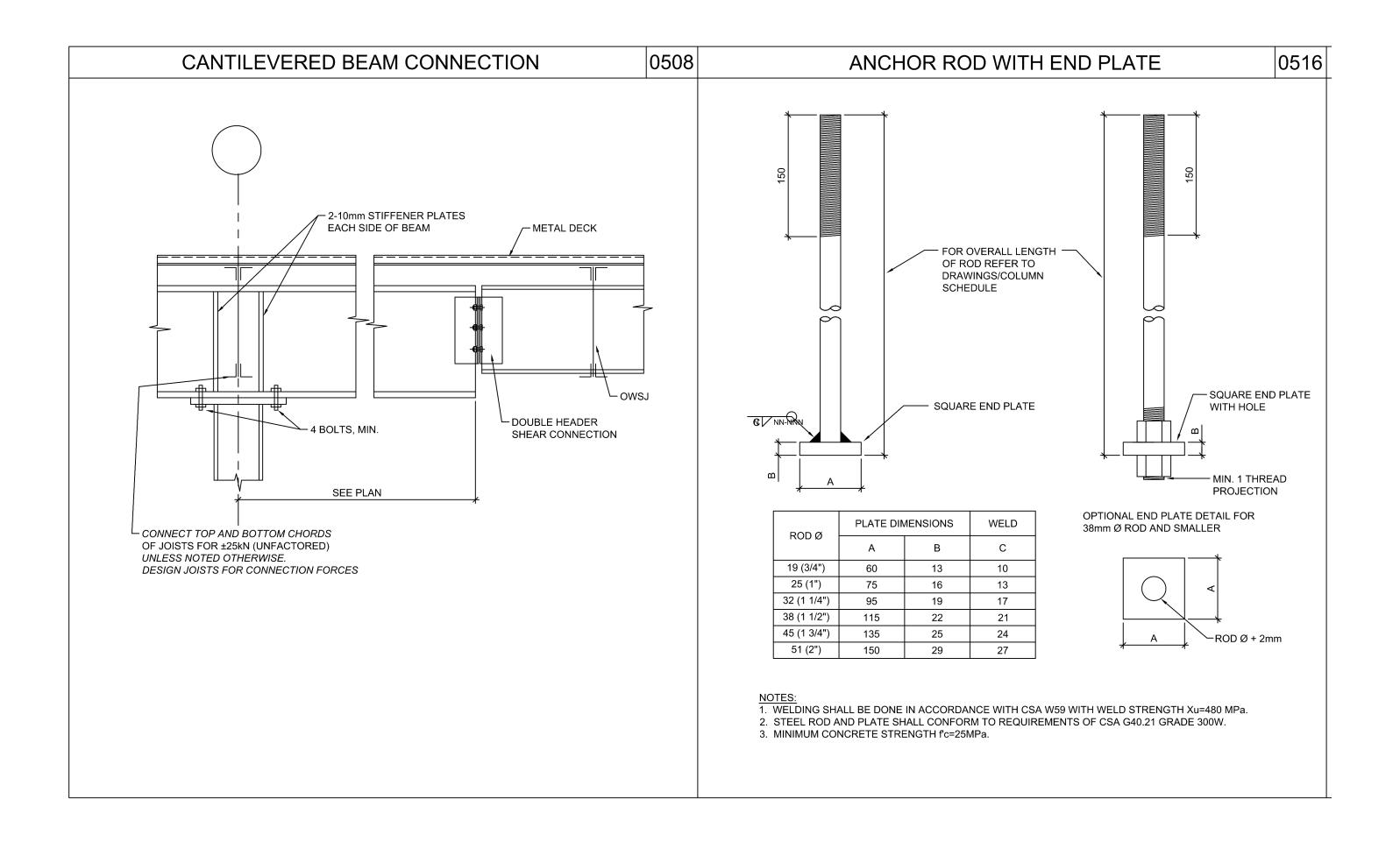
PROJECT NUMBER: 210112

SHEET TITLE **GENERAL NOTES** 

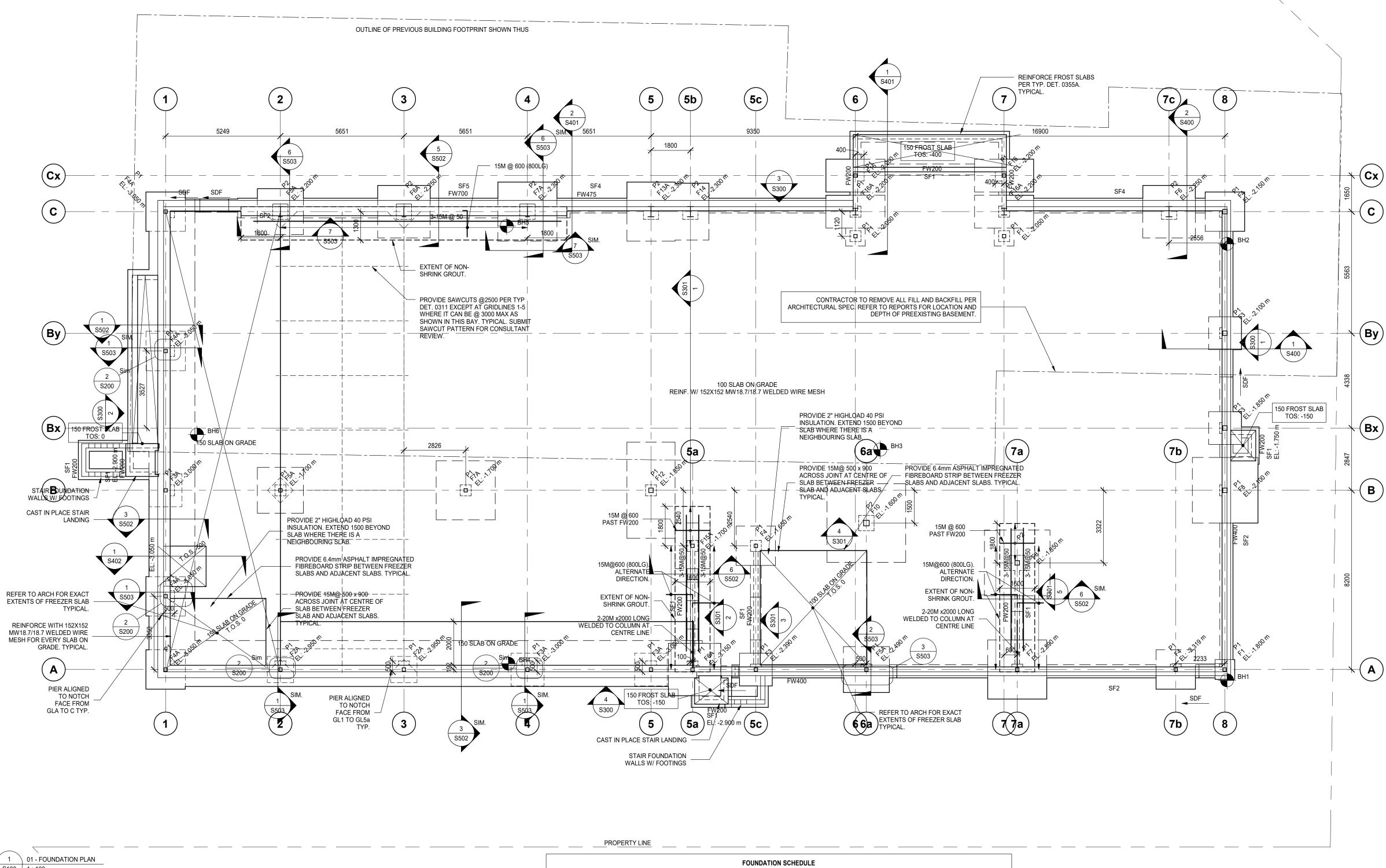








Contractor must check and verify all dimensions on the job, and report any discepancies to the Architect before proceeding with the work.
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PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY
PROJECT ADDRESS: 132 Burleigh Street
SEAL:
DRAWN: CHECKED: DM IFM SCALE: PROJECT NUMBER:
210112 SHEET TITLE: TYPICAL DETAILS
S004



### 1 $\uparrow$ 01 - FOUNDATION PLAN S100 / 1:100 NOTES: TOP OF SLAB DATUM ELEVATION IS AT GEODETIC ELEVATION 305.82m. WHERE CROSSED AND NOTED THE LOCAL DATUM FOR RAISED OR LOWERED AREAS ARE GIVEN RELATIVE TO THE LOWER FLOOR DATUM. EXCEPT AS CROSSED AND NOTED TOP OF FINISHED FLOOR IS 0 mm BELOW THE LOWER FLOOR DATUM. WHERE CROSSED AND NOTED, SLAB DEPRESSIONS OR LOCALLY RAISED AREAS ARE GIVEN RELATIVE TO THE LOWER FLOOR DATUM. REFER TO THE GENERAL NOTES FOR DESIGN ULS AND SLS BEARING CAPACITIES. BEARING ELEVATIONS (UNDERSIDE OF FOOTING) ARE NOTED ON PLAN. THESE ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE GEOTECHNICAL CONSULTANT. CONDITIONINGS AT A MINIMUM OF 1000MM BELOW FINISHED GRADE WHERE EXPOSED TO FROST. CENTRE ALL FOOTINGS AND CAPS ON THE GRID LINES UNLESS NOTED OTHERWISE. BOREHOLE LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. ELEVATIONS OF EXISTING GRADE AND OF NATIVE SOIL ARE INDICATED AT EACH BOREHOLE. FOUND FOOTINGS AT A MINIMUM OF 1500mm BELOW FINISHED GRADE WHERE EXPOSED TO FROST. THE SITE CONTAINS BURIED TOPSOIL AND/OR FILL MATERIAL UNSUITABLE TO SUPPORT THE PROPOSED STRUCTURE. THE ELEVATIONS OF NATIVE SOIL AT BOREHOLES INDICATE COMPETENT SOIL UPON WHICH FOOTINGS MAY BE FOUNDED OR UPON WHICH ENGINEERED FILL 10. MAY BE PLACED TO RAISE THE SUB-GRADE TO A SUITABLE FOUNDING ELEVATION. REFER TO THE GEOTECHNICAL REPORT FOR DETAILED SOIL INFORMATION. PROVIDE CONTROL JOINTS IN ALL FOUNDATION WALLS AS PER DETAIL 0315. COORDINATE CONTROL JOINT LOCATIONS WITH 11. ARCHITECTURAL.

		ERTY LINE			
				FOUNDATION SCHED	DULE
	DIN	MENSIONS (m	ım)	DEINEODOEMENT	DEMARKS
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT	REMARKS
F1	900	900	300	3-15M BEW	
F2A	1200	1200	300	4-15M BEW, 4-15M TEW	
F3	1500	1500	350	6-15M BEW	
F3A	1500	1500	350	6-15M BEW, 6-15M TEW	
F4	1800	1800	400	6-20M BEW	
F4A	1800	1800	400	6-20M BEW, 6-15M TEW	
F5A	2100	2100	450	9-20M BEW, 9-15M TEW	
F6	2400	2400	500	12-20M BEW	
F6A	2400	2400	500	12-20M BEW, 12-15M TEW	
F7	2700	2700	550	10-25M BEW	
F7A	2700	2700	550	10-25M BEW, 10-15M TEW	
F8	3000	3000	600	12-25M BEW	
F10	3600	3600	600	16-25M BEW	
F12	4400	2200	700	14-25M BEW	
F13A	2700	2200	550	8-25M BEW, 8-15M TEW	
F14	2600	1700	550	12-20M BEW	
F15A	2100	1600	550	8-20M BEW. 8-15M TEW	
F16	1500	2700	450	9-20M BEW	
F16A	1500	2700	450	9-20M BEW, 9-15M TEW	
SF1		500	250	SEE TYPICAL DETAIL 0306	
SF2		600	250	SEE TYPICAL DETAIL 0306	
SF4		675	250	SEE TYPICAL DETAIL 0306	
SF5	15202	900	250	SEE TYPICAL DETAIL 0306	

		CON	CRETE PIER SCHED	JLE
DIN	IENSION	REINFORCEMENT	REINFORCEMENT	
DEPTH	WIDTH	- VERTICAL	- TIE	REMARKS
500	500	8-20M	15M@300	
700	700	8-25M	15M@300	
	<b>DEPTH</b> 500	500 500	DIMENSION     REINFORCEMENT       DEPTH     WIDTH     - VERTICAL       500     500     8-20M	DEPTH     WIDTH     - VERTICAL     - TIE       500     500     8-20M     15M@300

			FOUNDATION WA	ALL SCHEDULE
MARK	THICKNESS (mm)	HORIZ. REINF.	VERT. REINF.	REMARKS
FW200	200	15M@400	15M@400	REBAR AT CENTRE
FW400	400	15M@500 HEF	15M@500 VEF	15M@500 HIF, 15M@500 VIF FOR NOTCH
FW475	475	15M@400 HEF	15M@400 VEF	15M@400 HIF, 15M@400 VIF FOR NOTCH
FW700	700	3 LAYERS- 15M @ 200 H	3 LAYERS- 15M @ 200 V	SEE 5/S502

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		BUILDING PERMIT
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2	2021/08/11	ISSUED FOR COORDINATION
1	2021/07/16	Issued for Class B Costing
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B		DESCRIPTION CKWELL Do   Victoria   Halifax
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B Toror 416.5	to   Waterlo 93.5300   bla	DESCRIPTION CKWELL Do   Victoria   Halifax
	to   Waterlo 93.5300   bla AJJ	DESCRIPTION CREWELL Do   Victoria   Halifax ackwell.ca MAA aunkalns miller architects
B Toron 416.5 M a d 425 a	to   Waterlo 93.5300   bla AJJ clennan ja adelaide str	DESCRIPTION CREWELL DO   Victoria   Halifax ackwell.ca MAA aunkalns miller architects
B Toron 416.5 M a 425 a toro	La nto   Waterlo 93.5300   bla AJJ clennan ja adelaide str nto ontario	DESCRIPTION CREWELL DO   Victoria   Halifax ackwell.ca MAA aunkalns miller architects
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B Toron 416.5 M 416.5 M 425 a toro 416 www TRIT CIVIL 18 R	to   Waterlo 93.5300   bla 2000   bla 2000	DESCRIPTION CREASE DO   Victoria   Halifax ackwell.ca MAA aunkalns miller architects reet west level 6 m5v 3c1 tects.com EERING SERVICES LTD ARD - UNIT 8
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## PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

SEAL:

DRAWN: DM

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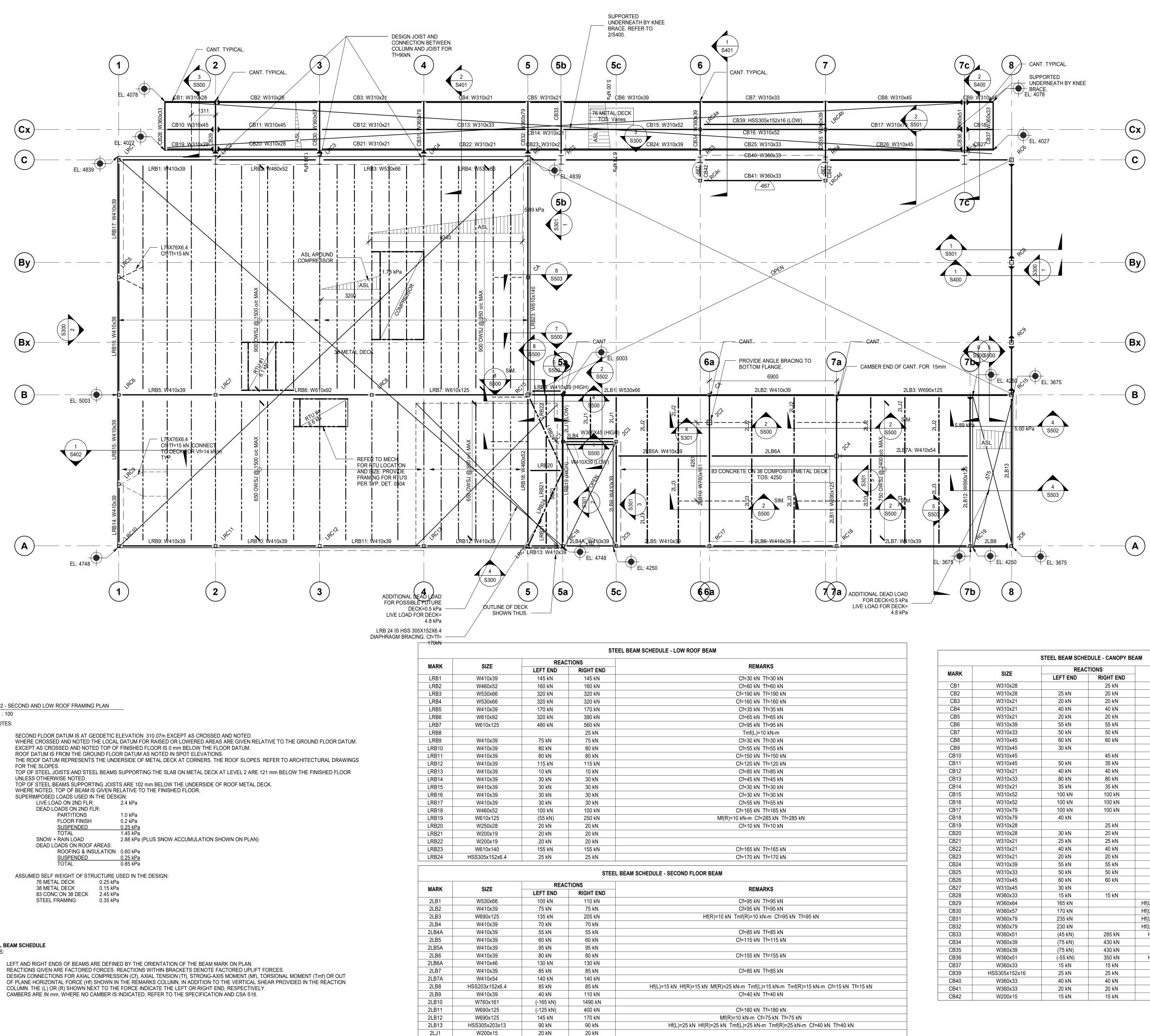
# FOUNDATION PLAN

SCALE: As indicated SHEET TITLE:

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PROJECT NUMBER:

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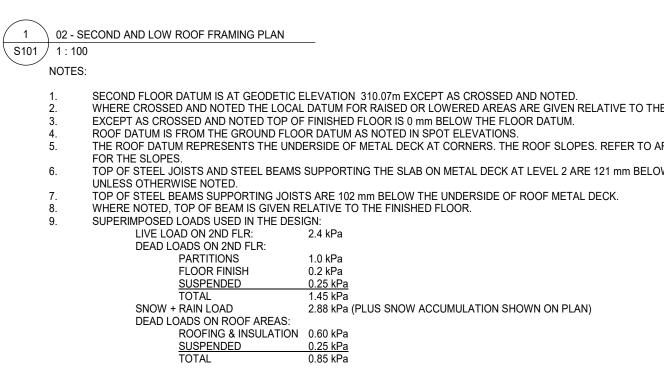
W310x21

35 kN

55 kN

35 kN

55 kN



8.

STEEL BEAM SCHEDULE NOTES:

- 4.

	REAC	TIONS					
SIZE	LEFT END	RIGHT END	REMARKS				
W310x28		25 kN	Mf(R)=30 kN-m				
W310x28	25 kN	20 kN	Mf(L)=30 kN-m				
W310x21	20 kN	20 kN					
W310x21	40 kN	40 kN					
W310x21	20 kN	20 kN					
W310x39	55 kN	55 kN					
W310x33	50 kN	50 kN					
W310x45	60 kN	60 kN	Mf(R)=30 kN-m				
W310x45	30 kN		Mf(L)=30 kN-m				
W310x45		45 kN	Mf(R)=60 kN-m				
W310x45	50 kN	35 kN	Mf(L)=60 kN-m				
W310x21	40 kN	40 kN					
W310x33	80 kN	80 kN					
W310x21	35 kN	35 kN					
W310x52	100 kN	100 kN					
W310x52	100 kN	100 kN					
W310x79	100 kN	100 kN	Mf(R)=40 kN-m				
W310x79	40 kN		Mf(L)=40 kN-m				
W310x28		25 kN	Mf(R)=30 kN-m				
W310x28	30 kN	20 kN	Mf(L)=30 kN-m				
W310x21	25 kN	25 kN					
W310x21	40 kN	40 kN					
W310x21	20 kN	20 kN					
W310x39	55 kN	55 kN					
W310x33	50 kN	50 kN					
W310x45	60 kN	60 kN	Mf(R)=30 kN-m				
W310x45	30 kN		Mf(L)=30 kN-m				
W360x33	15 kN	15 kN	Rf mid=15 kN				
W360x64	165 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=270 kN-m				
W360x57	170 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=275 kN-m				
W360x79	235 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=390 kN-m				
W360x79	230 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=390 kN-m				
W360x51	(45 kN)	285 kN	Hf(L)=10 kN Hf(R)=10 kN Tf=375 kN				
W360x39	(75 kN)	430 kN	Hf(L)=10 kN Hf(R)=10 kN				
W360x39	(75 kN)	430 kN	Hf(L)=10 kN Hf(R)=10 kN				
W360x51	(-55 kN)	350 kN	Hf(L)=10 kN Hf(R)=10 kN Tf=545 kN				
W360x33	15 kN	15 kN	Rf mid=15 kN				
HSS305x152x16	25 kN	25 kN	Hf(L)=10 kN Hf(R)=10 kN				
W360x33	40 kN	40 kN					
W360x33	20 kN	20 kN					
W200x15	15 kN	15 kN	Tf=10 kN				

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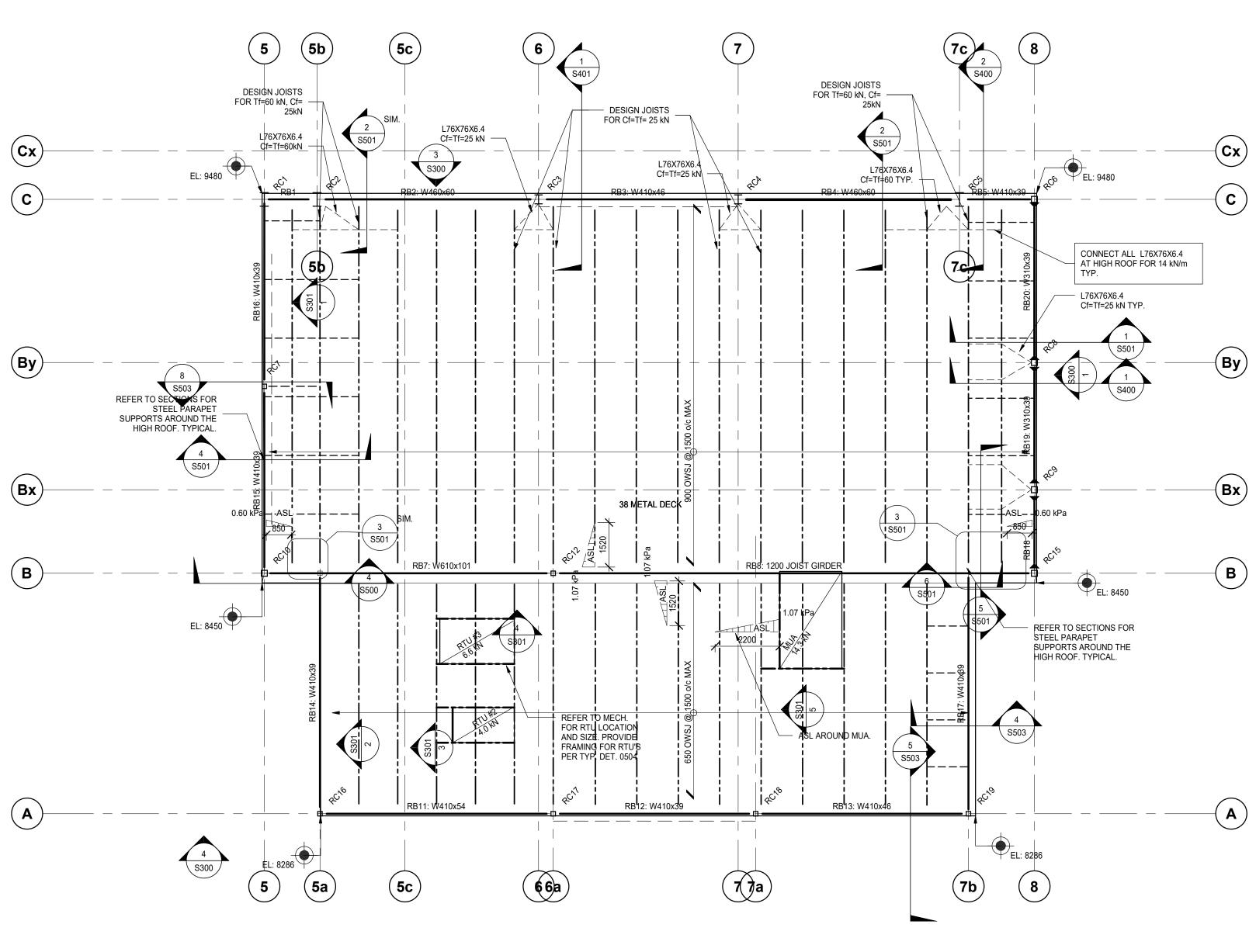
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 $1 \rightarrow 03$  - HIGH ROOF FRAMING PLAN S102 1 : 100 NOTES:

- ROOF DATUM IS FROM THE GROUND FLOOR DATUM AS NOTED IN SPOT ELEVATIONS. THE ROOF DATUM REPRESENTS THE UNDERSIDE OF METAL DECK AT CORNERS. THE ROOF SLOPES. REFER TO ARCHITECTURAL DRAWINGS FOR THE SLOPES. 1. 2.
- TOP OF STEEL BEAMS ARE 102 mm BELOW THE UNDERSIDE OF ROOF DECK UNLESS NOTED THUS. WHERE NOTED, THE DIMENSION IS RELATIVE TO THE ROOF DATUM. 3.
- SUPERIMPOSED LOADS USED IN THE DESIGN: SNOW + RAIN LOAD: 2.88 kPa (PLUS SNOW ACCUMULATION SHOWN ON PLAN) 4.
- DEAD:
- ROOFING: 0.60 kPa SUSPENDED: 0.25 kPa 5. SELF WEIGHT OF STRUCTURE USED IN THE DESIGN: METAL DECK: 0.15 kPa FRAMING: 0.35 kPa



	STEEL BEAM SCHEDULE - HIGH ROOF											
MADIZ	SIZE	REAC	TIONS	DEMARKS								
MARK	SIZE	LEFT END	RIGHT END	REMARKS								
RB1	W410x39	45 kN	45 kN	Cf=15 kN Tf=15 kN								
RB2	W460x60	160 kN	160 kN	Cf=45 kN Tf=45 kN								
RB3	W410x46	145 kN	145 kN	Cf=75 kN Tf=75 kN								
RB4	W460x60	160 kN	160 kN	Cf=50 kN Tf=50 kN								
RB5	W410x39	60 kN	60 kN	Cf=15 kN Tf=15 kN								
RB7	W610x101	300 kN	355 kN									
RB8	1200 JOIST GIRDER	585 kN	545 kN									
RB11	W410x54	120 kN	130 kN	Cf=40 kN Tf=40 kN								
RB12	W410x39	95 kN	95 kN	Cf=70 kN Tf=70 kN								
RB13	W410x46	140 kN	115 kN	Cf=35 kN Tf=35 kN								
RB14	W410x39	35 kN	35 kN	Cf=30 kN Tf=30 kN								
RB15	W410x39	35 kN	35 kN	Cf=95 kN Tf=95 kN								
RB16	W410x39	35 kN	35 kN	Cf=95 kN Tf=95 kN								
RB17	W410x39	50 kN	50 kN	Cf=40 kN Tf=40 kN								
RB18	W310x39	30 kN	30 kN	Mf(L)=40 kN-m Mf(R)=40 kN-m Cf=40 kN Tf=40 kN								
RB19	W310x39	30 kN	30 kN	Mf(L)=25 kN-m Mf(R)=25 kN-m Cf=40 kN Tf=40 kN								
RB20	W310x39	30 kN	30 kN	Mf(L)=30 kN-m Mf(R)=30 kN-m Cf=40 kN Tf=40 kN								

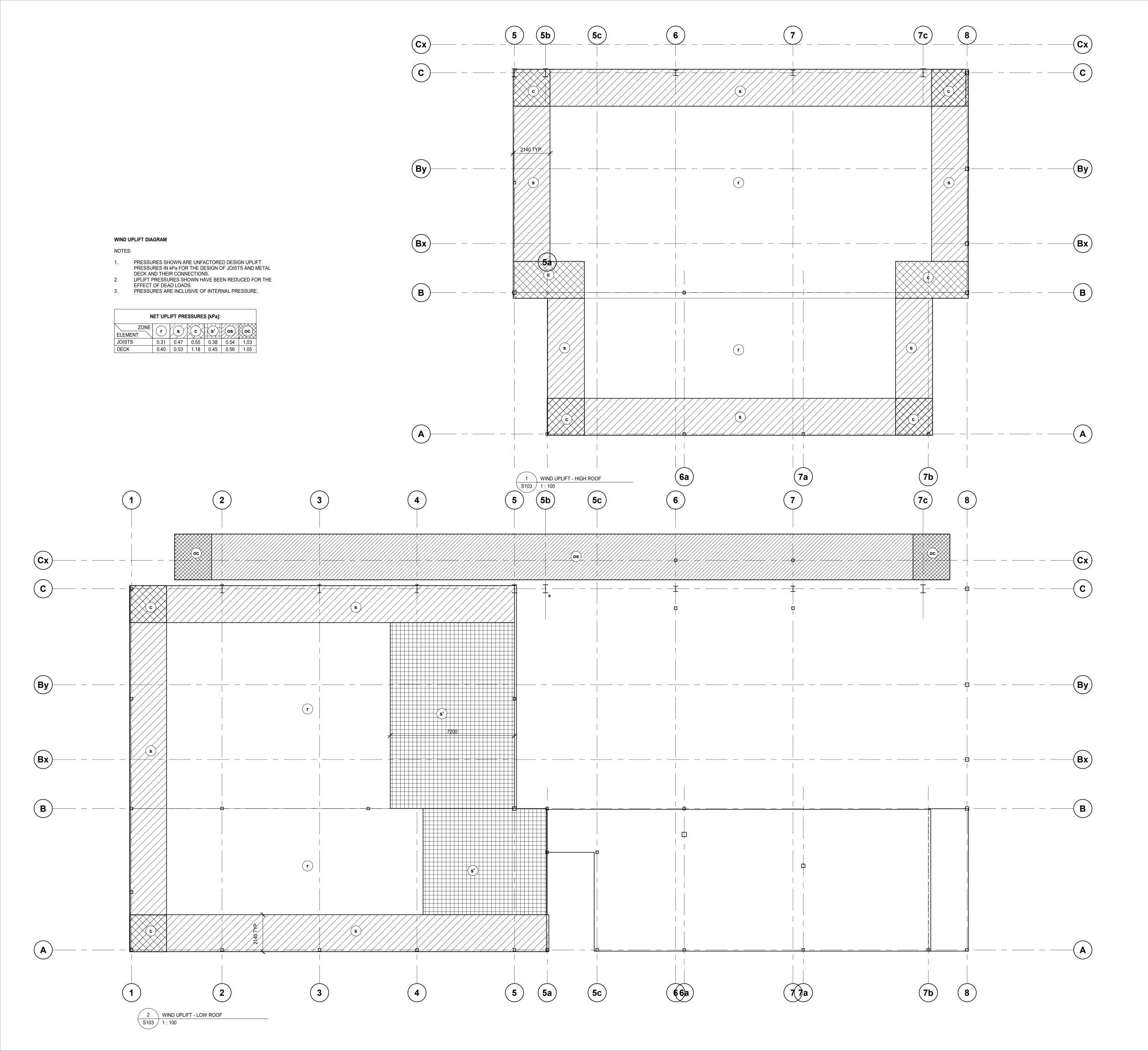
### STEEL BEAM SCHEDULE NOTES:

LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN. REACTIONS GIVEN ARE FACTORED FORCES. REACTIONS WITHIN BRACKETS DENOTE FACTORED UPLIFT FORCES. DESIGN CONNECTIONS FOR AXIAL COMPRESSION (Cf), AXIAL TENSION (Tf), STRONG-AXIS MOMENT (Mf), TORSIONAL MOMENT (Tmf) OR OUT OF PLANE HORIZONTAL FORCE (Hf) SHOWN IN THE REMARKS COLUMN, IN ADDITION THE VERTICAL SHEAR PROVIDED IN THE REACTION

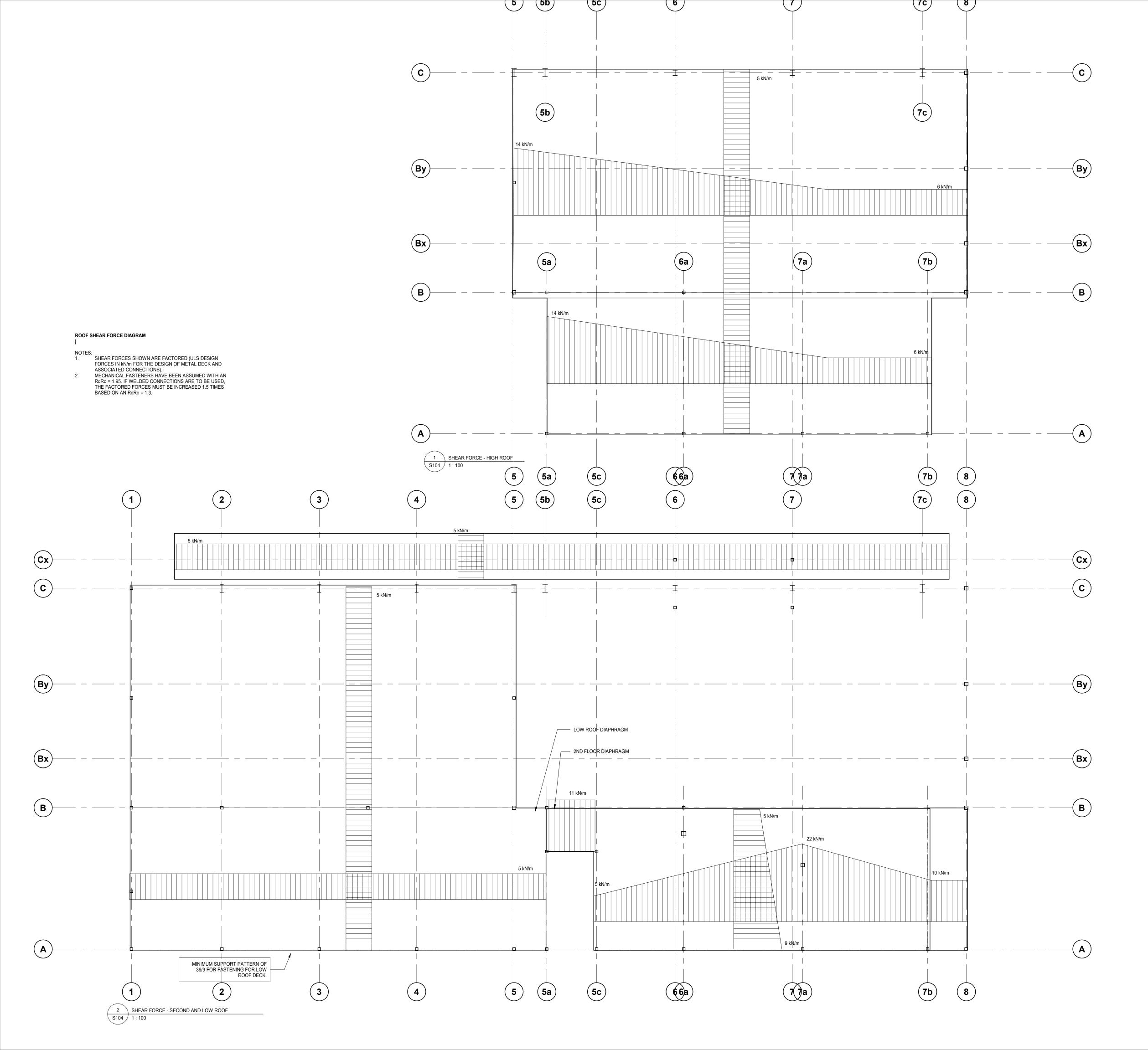
COLUMN. THE (L) OR (R) SHOWN NEXT TO THE FORCE INDICATE THE LEFT OR RIGHT END, RESPECTIVELY.
CAMBERS ARE IN mm. WHERE NO CAMBER IS INDICATED, REFER TO THE SPECIFICATION AND CSA S16.

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Contractor must check and verify all dimensions on the job, and report any discepancies to the Architect before proceeding with the work.

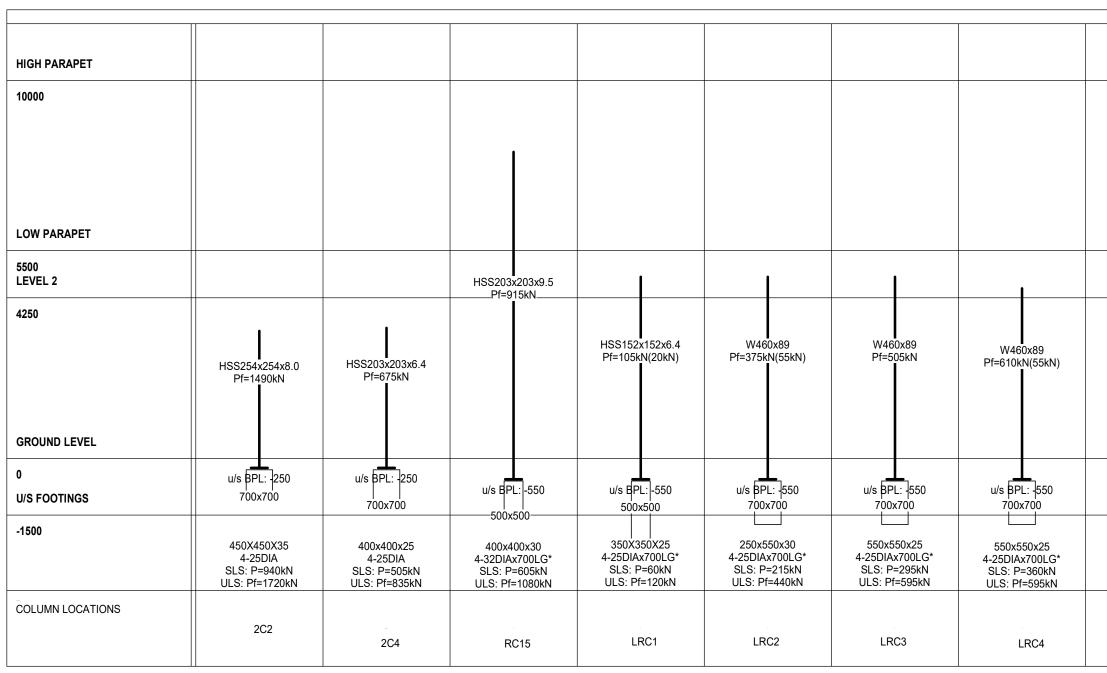


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3 2021/08/25 ISSUED FOR TENDER REVIEW MARK DATE DESCRIPTION
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1100-100 SHEPPARD AVENUE EAST TORONTO, ONTARI, M2N 6N5 TEL 416.487.8151
PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH
STREET, APSLEY
PROJECT ADDRESS: 132 Burleigh Street
SEAL:
DRAWN: CHECKED: Author Checker
SCALE: PROJECT NUMBER: As indicated 210112 SHEET TITLE: WIND UPLIFT DIAGRAMS
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ROUND LEVEL																					GROUND LEVEL
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UMN LOCATIONS	LRC10	LRC9	LRC11	LRC12	LRC13	LRC14	RC16	2C5	RC17	RC18	RC19	2C6	LRC6	LRC7	LRC8	RC10	RC20	2C1	2C3	RC12	



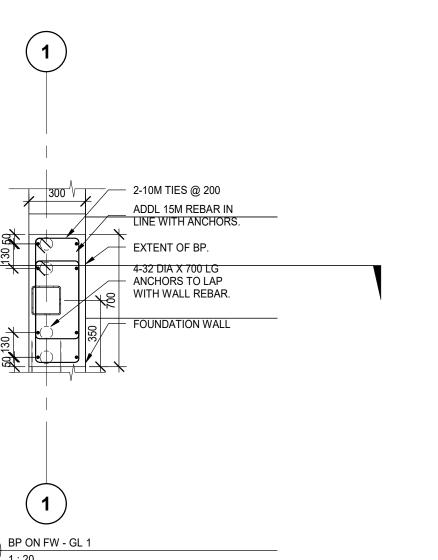
	COLUMN SCHEDULE	
HIGH PARAPET		HIGH PARAPET
10000		10000
LOW PARAPET		LOW PARAPET
5500		5500
LEVEL 2		LEVEL 2
4250	1	4250
	HSS152x152x6.4	
	Pf=435kN	
GROUND LEVEL		GROUND LEVEL
0 U/S FOOTINGS	u/s BPL: -250 500x500	0 U/S FOOTINGS
U/S FOUTINGS		U/S FOOTINGS
-1500	300X300X25	-1500
	4-19DIA SLS: P=220kN	
_	ULS: Pf=495kN	
	LRC4b	

### STEEL COLUMN SCHEDULE NOTES:

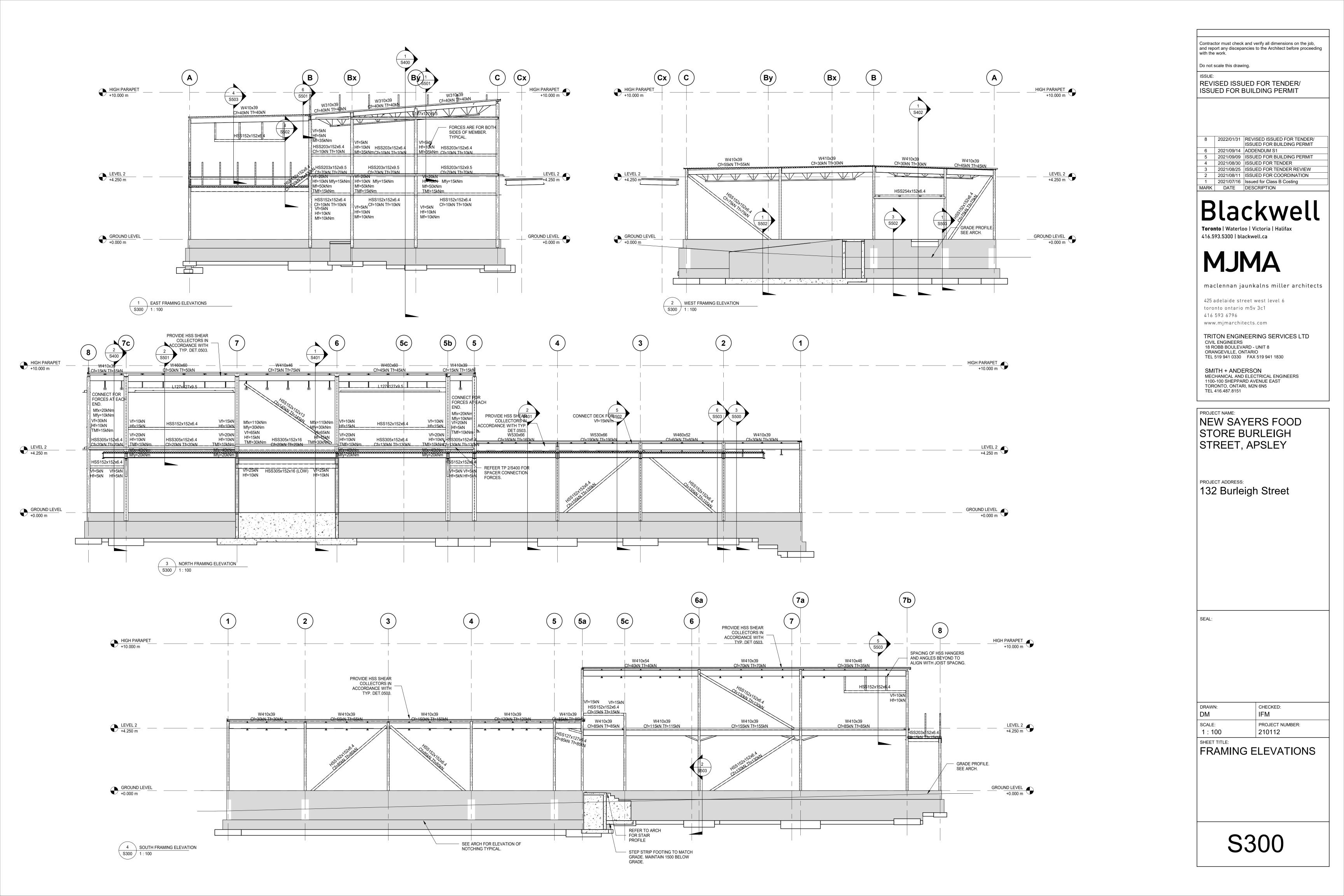
- WHERE NOTED WITH AN ASTERISK (\*) PROVIDE HEADED ANCHOR RODS; REFER TO TYPICAL DETAIL 0516. NOTE: PROVIDE 6.4mm PLATE WASHERS FOR ALL ANCHOR BOLTS LARGER THAN 25mm DIA. WITH HOLE TOLERANCE OF 1.6mm. WELD TO BASEPLATE AND ANCHOR BOLT 1.
- FOR CAPACITY ONCE STEEL IS ERECTED AND PLUMB. CENTRE COLUMNS, CAPS AND FOOTINGS ON GRIDS UNLESS NOTED OTHERWISE. COLUMNS AND PIERS ARE ORIENTED AS SHOWN ON PLAN.
- COLUMN FORCES INDICATED ARE FACTORED IN KN AND BENDING MOMENTS (IF APPLICABLE) ARE FACTORED IN KN-m, UNLESS NOTED 4.
- OTHERWISE. UPLIFT (TENSION) FORCES ARE PRESENTED IN BRACKETS BESIDE THE ASSOCIATED COMPRESSION FORCE, IF APPLICABLE. UPLIFT FORCES ARE FACTORED IN KN UNLESS NOTED OTHERWISE. 5.
- WHERE MOMENTS OR SHEAR FORCES ARE PRESENTED SINGULARLY: THE MOMENT/SHEAR FORCE IS IN THE STRONG DIRECTION. IF THE COLUMN IS SQUARE, THE MOMENT/SHEAR FORCE IS IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE. WHERE MOMENTS OR SHEARS ARE PRESENTED ABOUT TWO AXES: THE FIRST MOMENT/SHEAR FORCE IS IN THE STRONG DIRECTION AND THE SECOND IN THE WEAK DIRECTION. IF THE COLUMN IS SQUARE, THE FIRST MOMENT/SHEAR FORCE IS PARALLEL TO THE NORTH-SOUTH 6. 7.
- DIRECTION.
- REFER TO TYPICAL DETAIL 0303 UNLESS NOTED OTHERWISE. PROVIDE 4-19 DIAM. HOOKED ANCHOR BOLTS AS PER TYPICAL DETAIL 0303 UNLESS NOTED OTHERWISE. WHERE HEADED ANCHOR RODS ARE SPECIFIED REFER TO TYPICAL DETAIL 0516. 10.

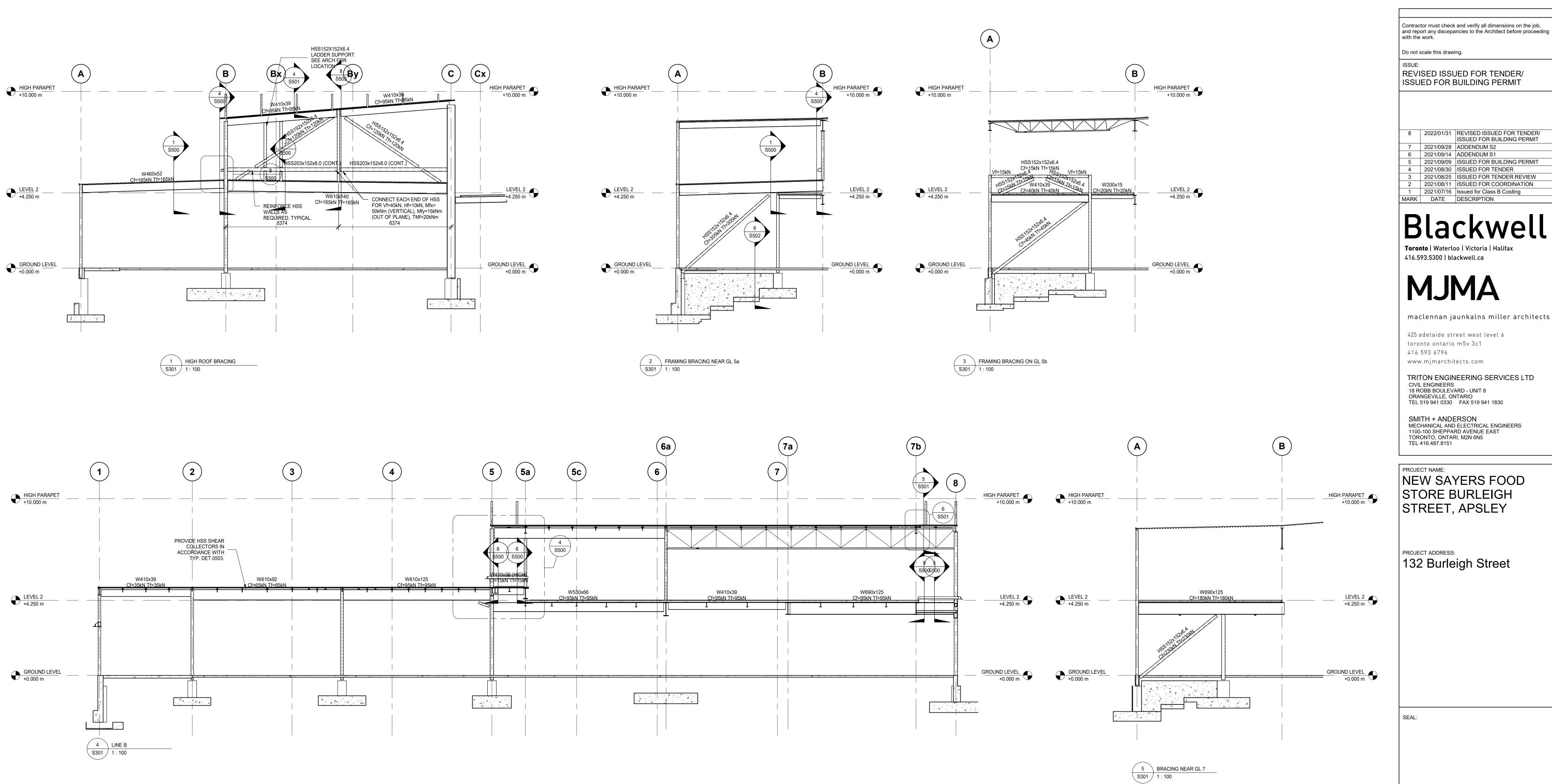
		COLUMN S	SCHEDULE										
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u/s βPL: -550 700x700	u/s BPL: -550 700x700	u/s BPL: -250 500x500	u/s BPL: -250 500x500	u/s BPL:]-250 500x500	u/s BPL: -250 500x500	u/s βPL: -550 700x700	u/s BPL: -550 500x500	u/s BPL: -550 	u/s BPL:]-550 500x500		u/s EPL: -550 500x500	u/s BPL: -250 500x500	0 U/S FOOTINGS
550x550x25 4-25DIAx700LG* SLS: P=405kN ULS: Pf=770kN	550x550x25 4-25DIA SLS: P=315kN ULS: Pf=595kN	400x400x25 4-32DIAx700LG* SLS: P=280kN ULS: Pf=460kN	350X350X25 4-19DIA SLS: P=35kN ULS: Pf=40kN	400x400x25 4-32DIAx700LG* SLS: P=280kN ULS: Pf=460kN	350X350X25 4-19DIA SLS: P=35kN ULS: Pf=40kN	550x550x25 4-25DIA SLS: P=345kN ULS: Pf=665kN	∐ 400x400x25 4-32DIAx700LG* SLS: P=140kN ULS: Pf=215kN	400x400x25 4-32DIAx700LG* SLS: P=75kN ULS: Pf=105kN	700x300x25 4-32DIAx700LG* SLS: P=30kN ULS: Pf=50kN		400x400x25 4-32DIAx700LG* SLS: P=75kN ULS: Pf=105kN	↓ 350X350X25 4-19DIA SLS: P=220kN ULS: Pf=495kN	-1500
RC1	RC2	RC3	LRC4c	RC4	LRC4d	RC5	RC6	RC9	LRC5	RC7	RC8	LRC4a	

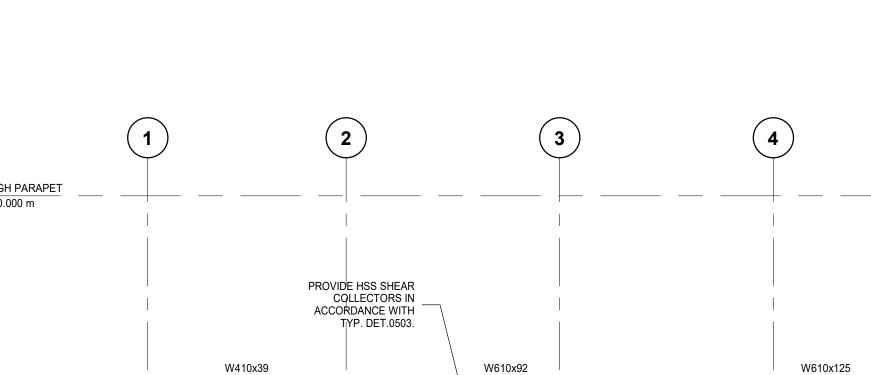
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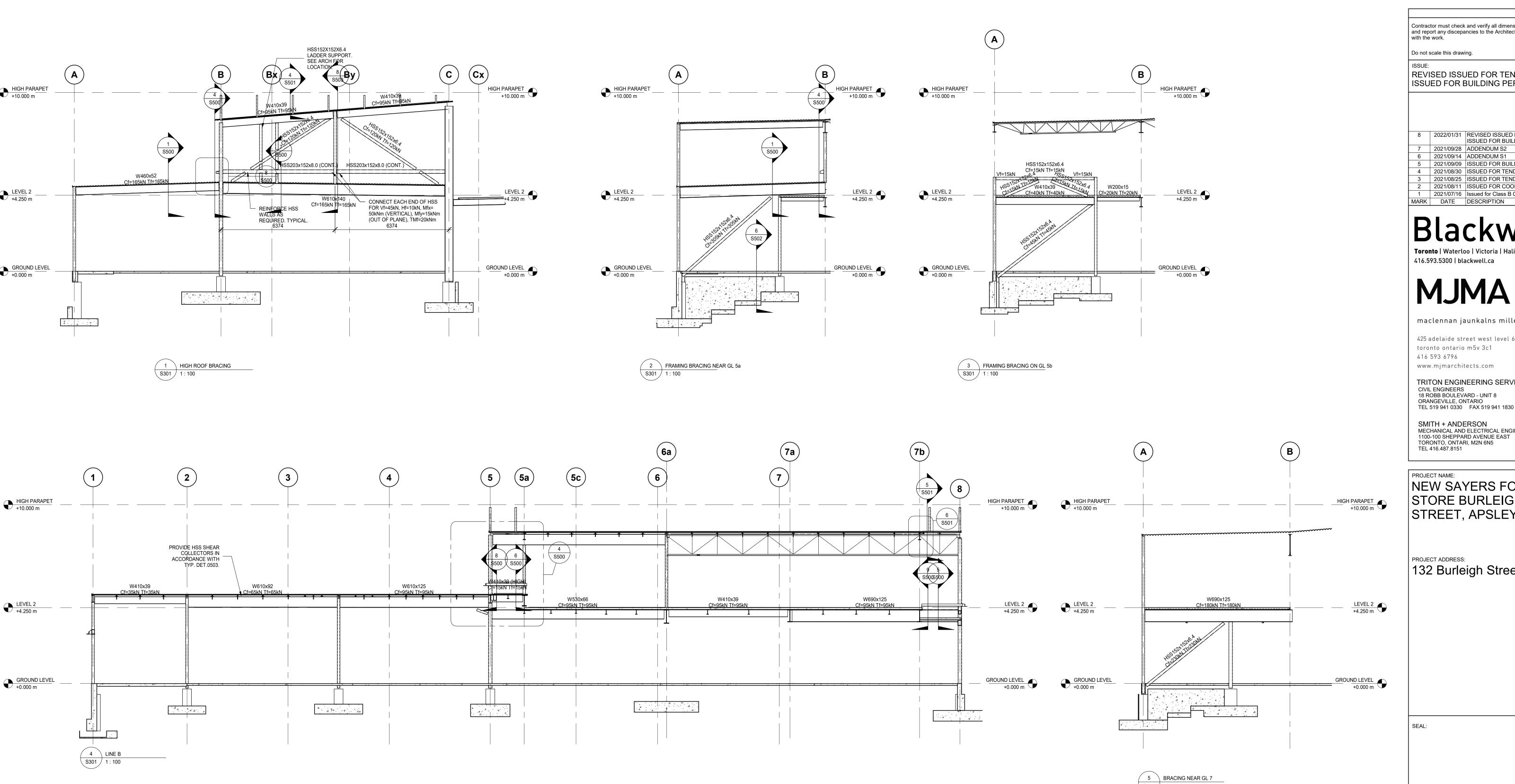


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3 2	2021/08/25ISSUED FOR TENDER REVIEW2021/08/11ISSUED FOR COORDINATION
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CIVIL	TON ENGINEERING SERVICES LTD L ENGINEERS OBB BOULEVARD - UNIT 8
ORA	NGEVILLE, ONTARIO 519 941 0330 FAX 519 941 1830
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	416.487.8151
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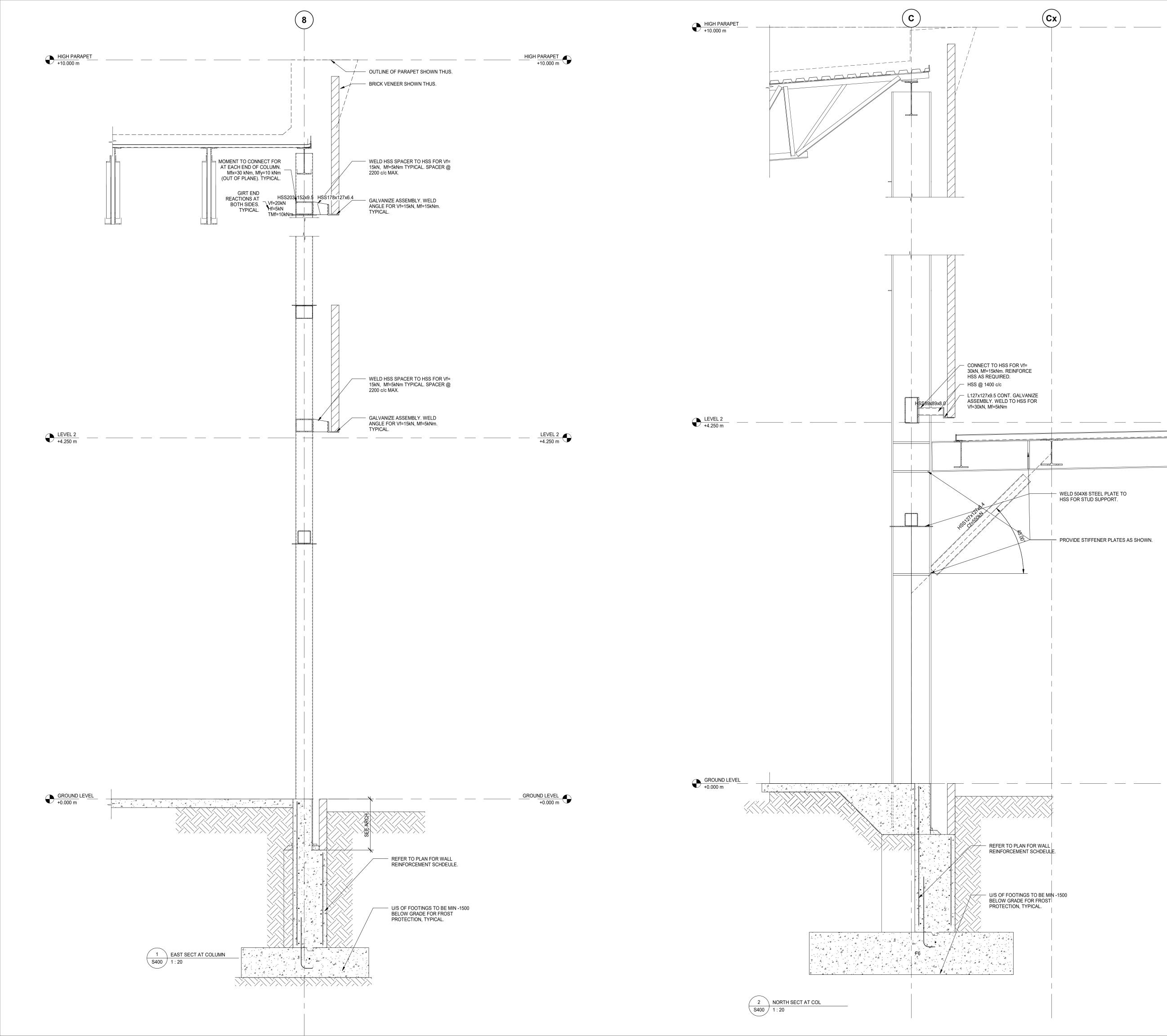




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# FRAMING ELEVATIONS

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LEVEL 2 +4.250 m

GROUND LEVEL +0.000 m

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Contractor must check and verify all dimensions on the job, and report any discepancies to the Architect before proceeding with the work.	J

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4	2021/08/30	ISSUED FOR TENDER
3	2021/08/25	ISSUED FOR TENDER REVIEW
2	2021/08/11	ISSUED FOR COORDINATION
1	2021/07/16	Issued for Class B Costing
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maclennan jaunkalns miller architects

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SMITH + ANDERSON MECHANICAL AND ELECTRICAL ENGINEERS 1100-100 SHEPPARD AVENUE EAST TORONTO, ONTARI, M2N 6N5 TEL 416.487.8151

PROJECT NAME:

## NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

SEAL:

S400

SHEET TITLE: BUILDING SECTIONS

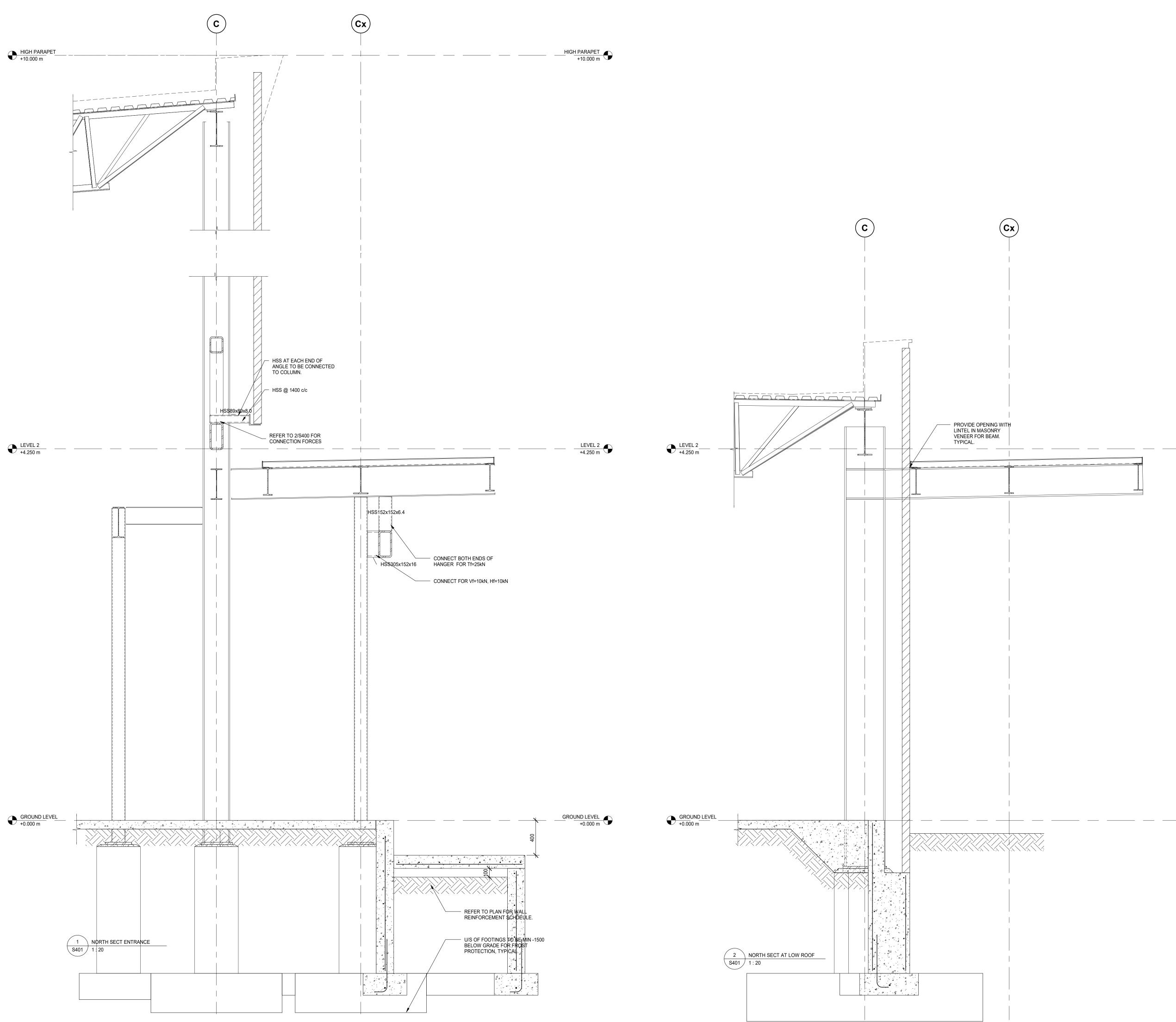
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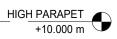
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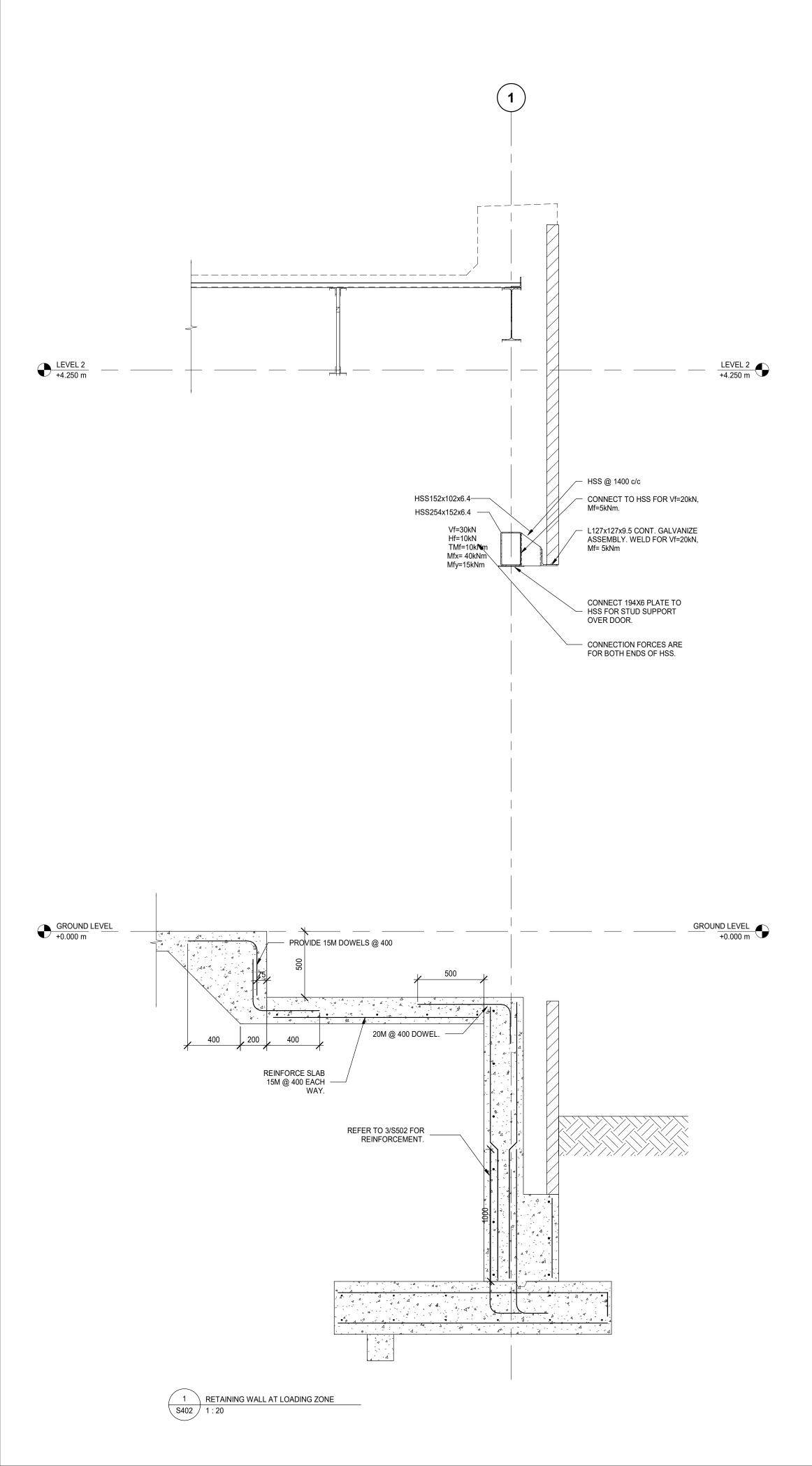




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Blackwell Toronto   Waterloo   Victoria   Halifax 416.593.5300   blackwell.ca
MJMA maclennan jaunkalns miller architects 425 adelaide street west level 6 toronto ontario m5v 3c1 416 593 6796 www.mjmarchitects.com TRITON ENGINEERING SERVICES LTD
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PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY
PROJECT ADDRESS: 132 Burleigh Street
SEAL:
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 	LEVEL 2 +4.250 m

\_\_\_\_\_GROUND LEVEL +0.000 m



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4	2021/08/30	ISSUED FOR TENDER
3	2021/08/25	ISSUED FOR TENDER REVIEW
2	2021/08/11	ISSUED FOR COORDINATION
1	2021/07/16	Issued for Class B Costing
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# PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

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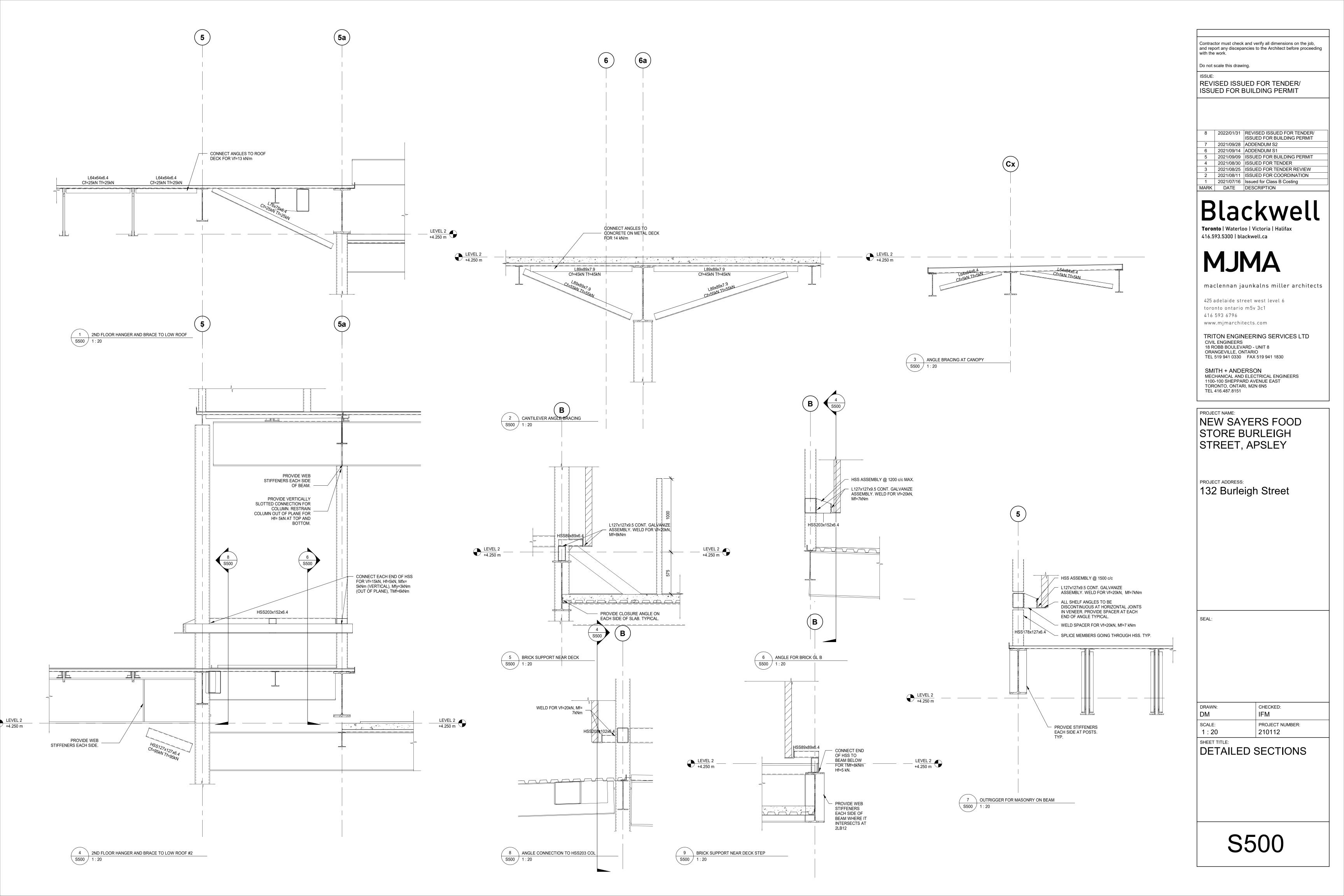
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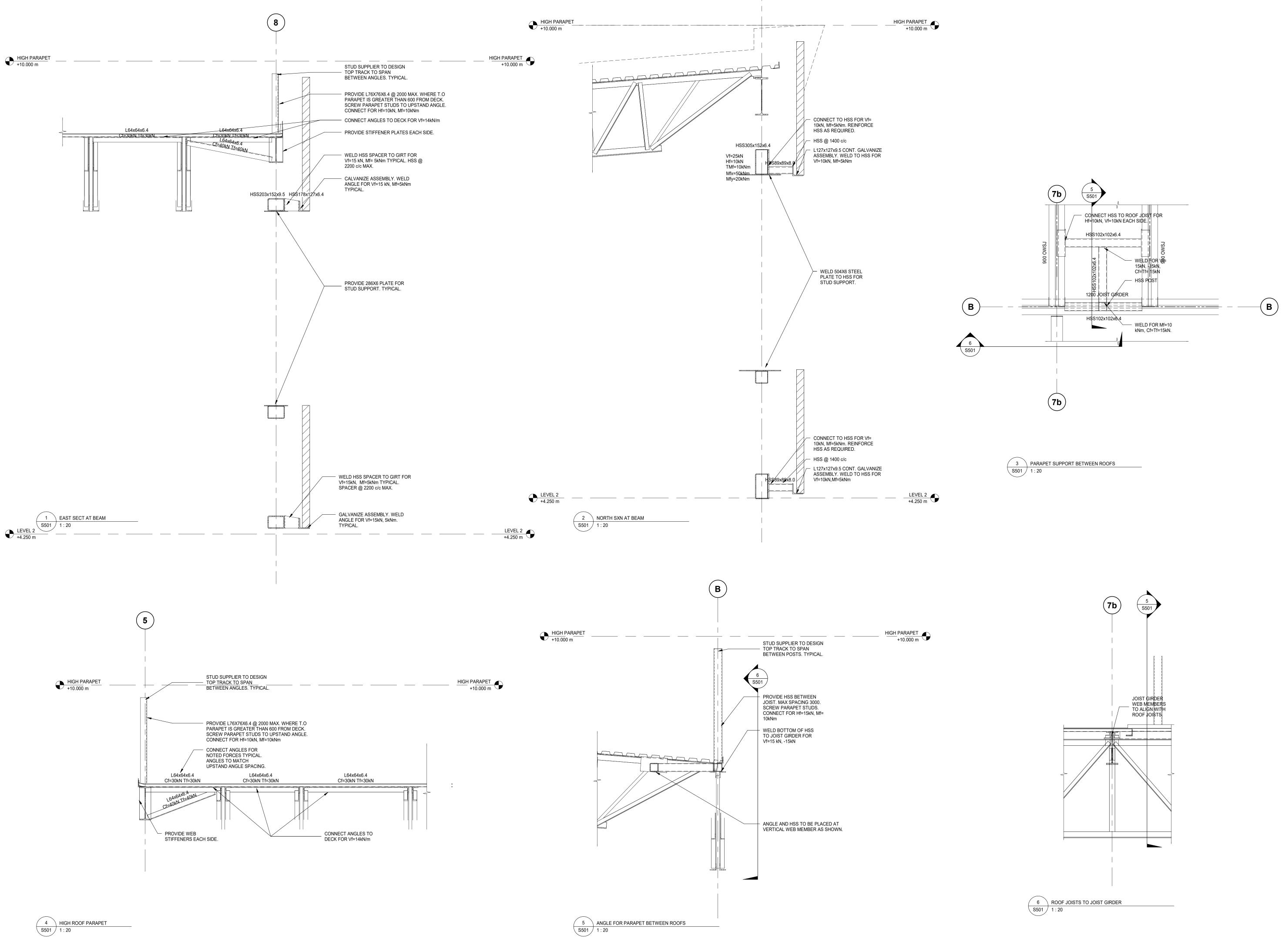
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PROJECT NUMBER: 210112

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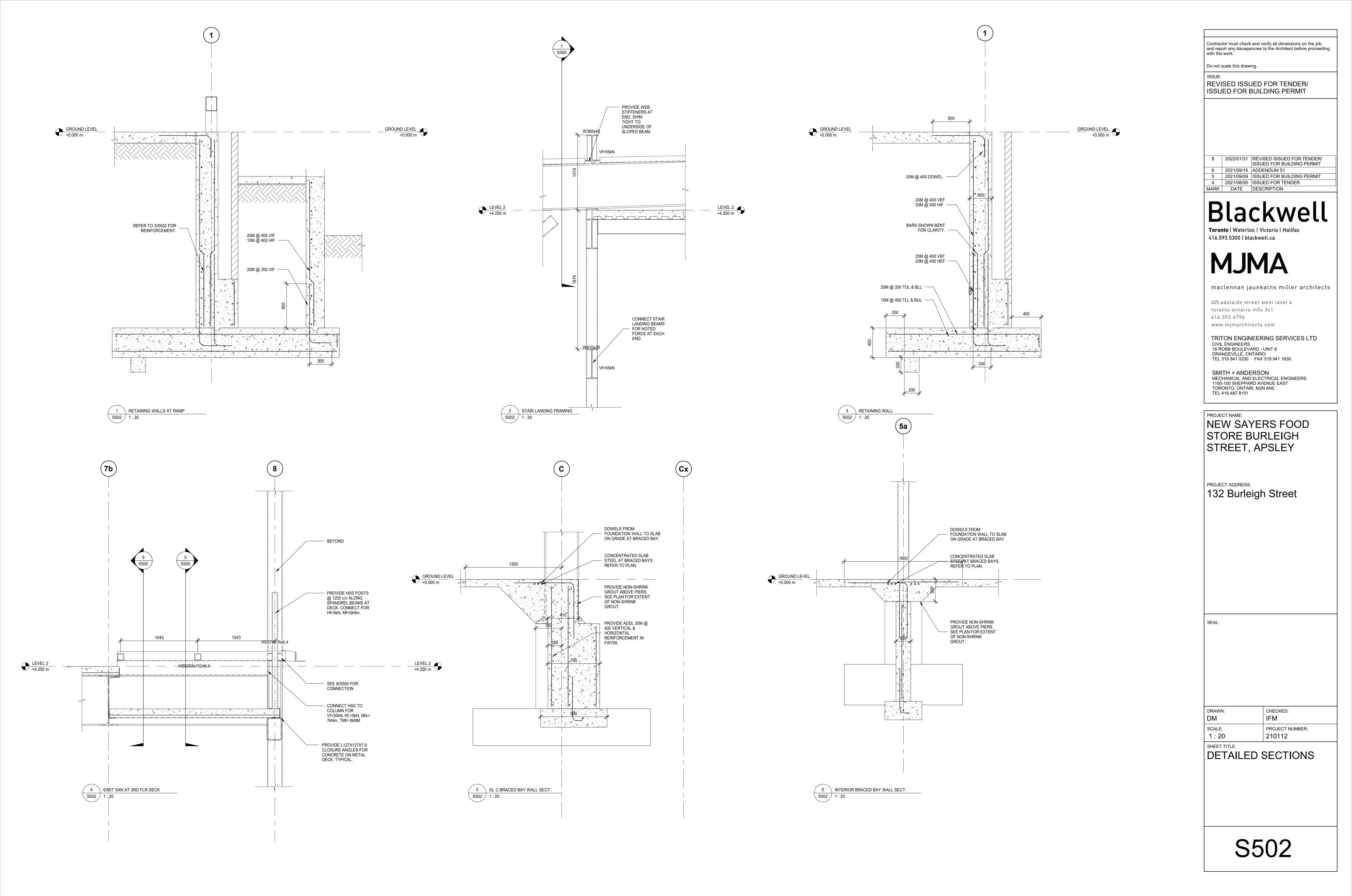
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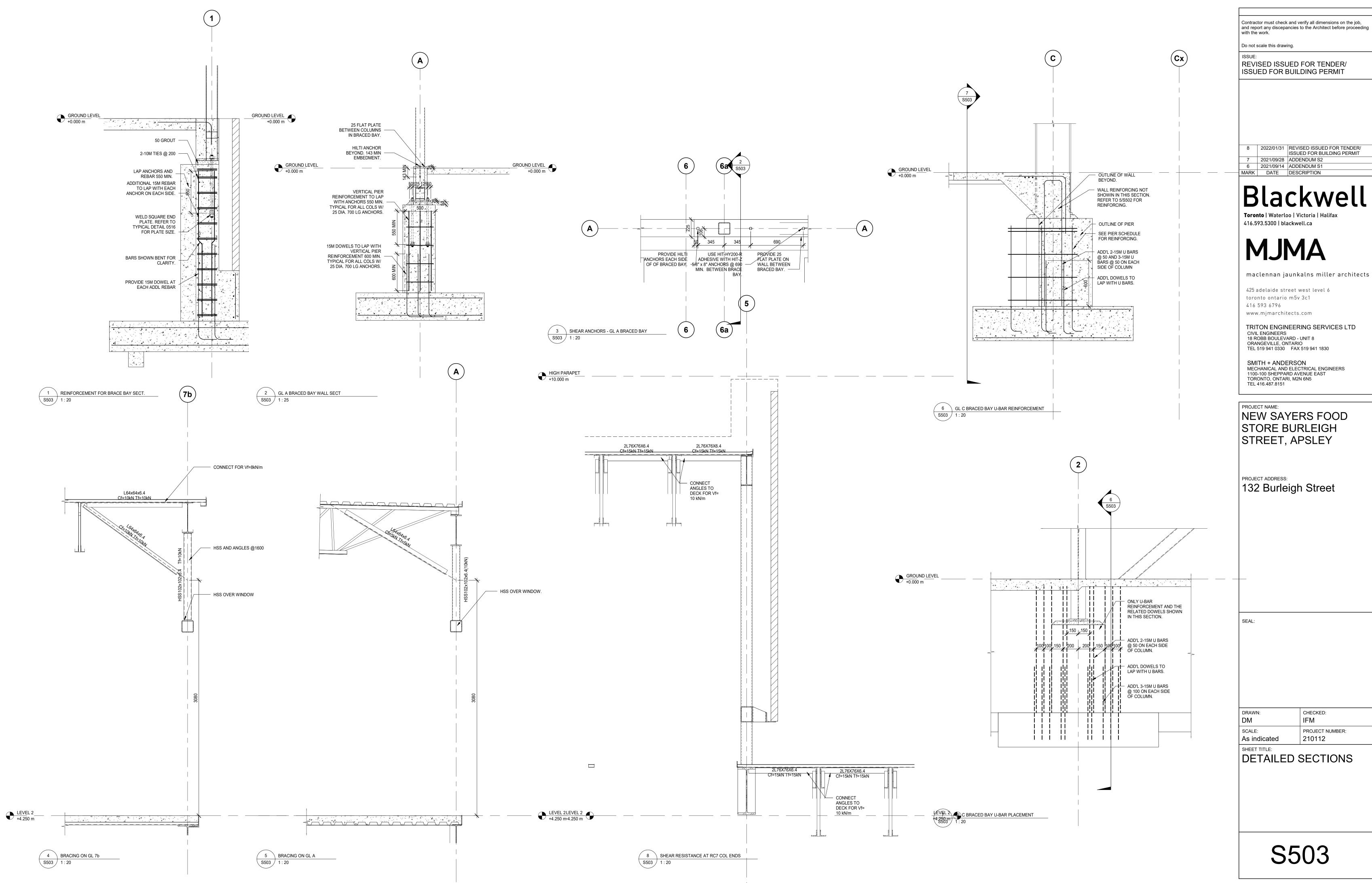






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PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY
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