

NEW SAYERS FOOD STORE APSLEY, ONTARIO

MACLENNAN JAUNKALNS MILLER ARCHITECTS
TRITON ENGINEERING SERVICES LTD, CIVIL ENGINEERS
BLACKWELL STRUCTURAL ENGINEERS
SMITH AND ANDERSEN, MECHANICAL AND ELECTRICAL ENGINEERS



ISSUED FOR CONSTRUCTION - JULY 15, 2022

CIVIL

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Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	REVISED SPA	210809	AB
2	ISSUED FOR TENDER	210824	AB
3	REVISION TO BUILDING PERMIT	220315	AB
4	SI-01	220615	AB
5	BLG SET-OUT CAD	220715	AB
6	ISSUED FOR CONSTRUCTION	220715	AB
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MJMA

macleNNan jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmachitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON
MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416 487 8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL



PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

COVER SHEET

SCALE

NTS

DATE

JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A000

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REV	DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	JUNE 2021	HW
2	ISSUED FOR CLASS B COSTING	JULY 16 2021	HW
3	ISSUED FOR TENDER	AUGUST 25 2021	HW
4	ISSUED FOR BUILDING PERMIT	SEPTEMBER 9 2021	HW
5	ISSUED FOR CIVIL ADDENDUM 1	SEPTEMBER 17 2021	HW
6	REVISED FOR BUILDING PERMIT	OCTOBER 07 2021	HW
7	REVISED BP & TENDER SUBMITTAL	JANUARY 20 2022	HW
8	ISSUED FOR CONSTRUCTION	JULY 15 2022	HW



MJMA
maclennan jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6776
www.mjmarcitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
229 BROADWAY - UNIT 1
ORANGEVILLE, ONTARIO
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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E: 705.656.4531
O: sayers@apeley.ca

NORTH ARROW	SEAL
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**CONSTRUCTION GRADING &
SERVICING PLAN**

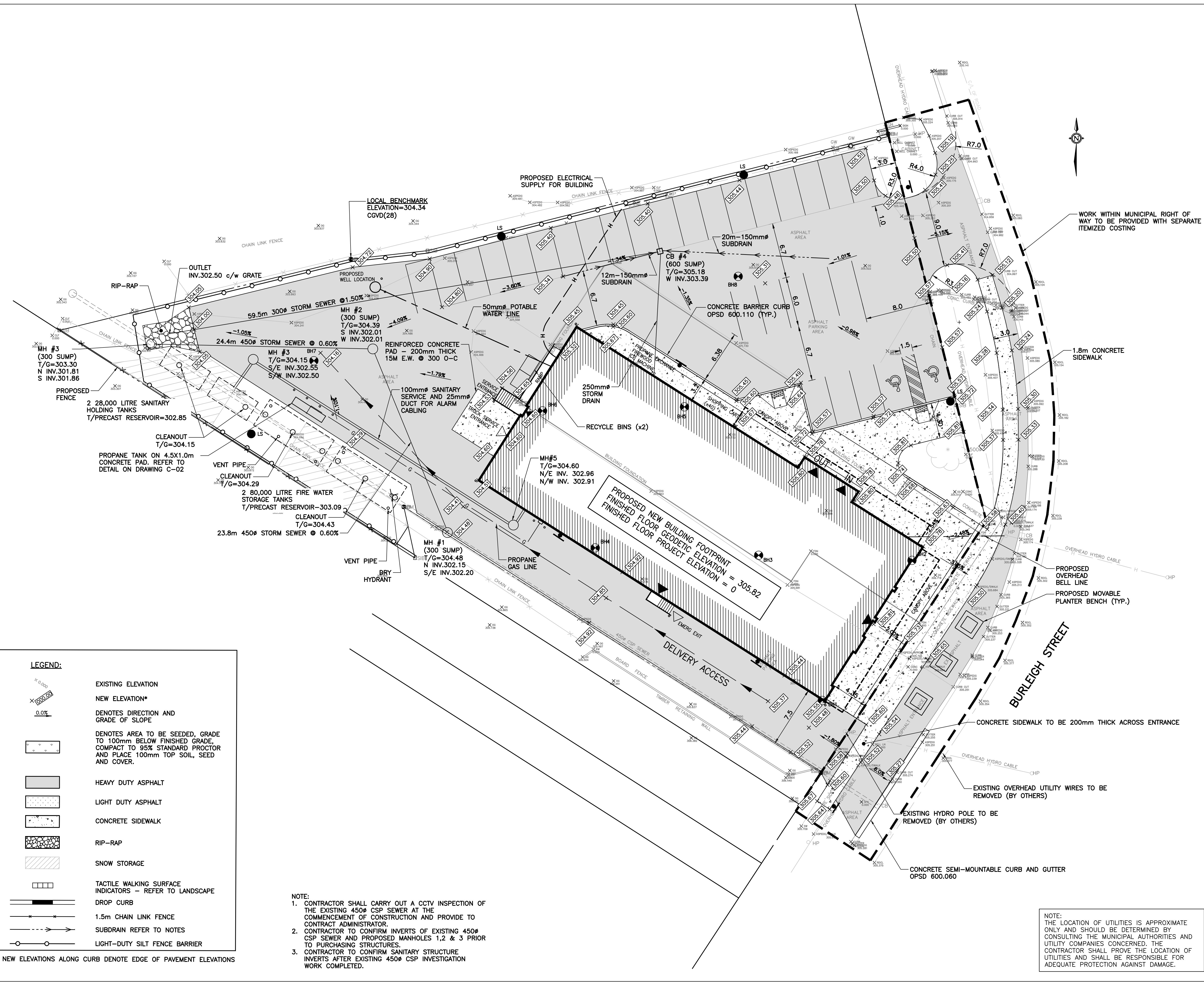
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DATE
JUNE 16, 2021



PROJECT NUMBER
2102

DRAWING NUMBER
C-01



LEGEND:

	EXISTING ELEVATION
	NEW ELEVATION*
	DENOTES DIRECTION AND GRADE OF SLOPE
	DENOTES AREA TO BE SEEDED, GRADE TO 100mm BELOW FINISHED GRADE, COMPACT TO 95% STANDARD PROCTOR AND PLACE 100mm TOP SOIL, SEED AND COVER.
	HEAVY DUTY ASPHALT
	LIGHT DUTY ASPHALT
	CONCRETE SIDEWALK
	RIP-RAP
	SNOW STORAGE
	TACTILE WALKING SURFACE INDICATORS - REFER TO LANDSCAPE
	DROP CURB
	1.5m CHAIN LINK FENCE
	SUBDRAIN REFER TO NOTES
	LIGHT-DUTY SILT FENCE BARRIER

* NEW ELEVATIONS ALONG CURB DENOTE EDGE OF PAVEMENT ELEVATIONS

- NOTE:**
- CONTRACTOR SHALL CARRY OUT A CCTV INSPECTION OF THE EXISTING 450# CSP SEWER AT THE COMMENCEMENT OF CONSTRUCTION AND PROVIDE TO CONTRACT ADMINISTRATOR.
 - CONTRACTOR TO CONFIRM INVERTS OF EXISTING 450# CSP SEWER AND PROPOSED MANHOLES 1, 2 & 3 PRIOR TO PURCHASING STRUCTURES.
 - CONTRACTOR TO CONFIRM SANITARY STRUCTURE INVERTS AFTER EXISTING 450# CSP INVESTIGATION WORK COMPLETED.

NOTE:
THE LOCATION OF UTILITIES IS APPROXIMATE ONLY AND SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION AGAINST DAMAGE.

GENERAL NOTES:

- THE LOCATION OF UTILITIES IS APPROXIMATE ONLY AND SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION AGAINST DAMAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS AND INVERTS/OBVERTS FOR STORM (INCLUDING SUBDRAIN), SANITARY AND WATER SERVICE CONNECTIONS. THE CONTRACTOR IS ALSO RESPONSIBLE TO VERIFY ALL EXISTING ROAD AND PROPOSED FINISHED GRADES FOR THE SITE. IF THERE IS ANY DISCREPANCY, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL AND CLEAN ANY MUD AND DEBRIS TRACKED ONTO PUBLIC ROADWAYS. DUST SHALL BE SWEEP AND/OR CONTROLLED BY WATER AS REQUIRED.
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH THE LATEST ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS).
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION.
- THE CONTRACTOR IS TO PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE TOWNSHIP OF NORTH KAWARTHA AND COUNTY OF PETERBOROUGH PRIOR TO UNDERTAKING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES IN ACCORDANCE WITH OTM BOOK 7, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, AND BARRIERS.
- FOR ANY LANE OR ROAD CLOSURES, THE PERIOD OF CLOSURE SHALL BE AS SHORT AS POSSIBLE TO COMPLETE THE WORK AND THE CONTRACTOR SHALL PREPARE AND SUBMIT A SCHEDULE AND A TRAFFIC CONTROL PLAN TO THE TOWNSHIP OF NORTH KAWARTHA AND COUNTY OF PETERBOROUGH A MINIMUM OF FOUR WEEKS PRIOR TO ANY CLOSURE. CLOSURES ARE SUBJECT TO APPROVAL BY THE TOWNSHIP AND COUNTY.
- ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- EXISTING ELEVATIONS HAVE BEEN PROVIDED.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE ALL DEWATERING REQUIRED TO INSTALL THE SERVICES SHOWN ON DRAWINGS AS NOTED IN GEOTECHNICAL REPORT. DEWATERING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 517 TO MAINTAIN A STABLE SUBGRADE AND ALLOW COMPACTION OPERATION TO BE COMPLETED AS SPECIFIED. ALL DISTURBED SUPPORTING SUBGRADES RESULTING FROM THE CONTRACTORS OPERATIONS AND/OR INADEQUATE GROUNDWATER CONTROL SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE CONSULTANT AND AWAIT APPROVAL BEFORE STARTING ANY WORK. ANY ADDITIONAL EXCAVATION AND BACKFILL REQUIRED DUE TO IMPROPER DEWATERING SHALL BE PAID BY THE CONTRACTOR.
- FOR ALL NEW CONSTRUCTION, EXCAVATE TO SUBGRADE ELEVATION. ALL EXISTING BUILDING FOUNDATIONS ENCOUNTERED BELOW ASPHALT PAVING OR SIDEWALKS SHALL BE REMOVED TO A DEPTH BELOW SUBGRADE. PROOF ROLL TO A CONSISTENT IN-SITU DENSITY BASED ON A MINIMUM OF THREE CONSECUTIVE DENSITY TESTS. THE SUB-GRADE SHALL BE INSPECTED BEFORE PLACING PAVEMENT STRUCTURE.
- FOR ALL LOCATIONS WHERE ASPHALT IS BEING REPLACED BESIDE EXISTING ASPHALT, A 0.5m LAP JOINT SHALL BE MILLED AS SHOWN IN THE DETAIL BELOW. THE ASPHALT TO BE REMOVED SHALL BE SAWCUT ALONG ASPHALT THAT IS TO REMAIN.

SEWER NOTES:

- SEWERS AND STRUCTURES TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 410 AND 407.
- TRENCHING, BACKFILLING AND COMPACTING TO BE IN ACCORDANCE WITH OPSS.MUNI 401 AND 402.
- SANITARY AND STORM SEWER PIPE MATERIAL AND BEDDING TO BE AS SHOWN IN THE PIPE CLASS AND BEDDING CHART.
- ALL BEDDING AND COVER MATERIAL TO BE GRANULAR 'A' COMPACTED TO 95% SPMD.
- SUBDRAINS TO BE PLACED IN ACCORDANCE WITH OPSS.MUNI 405 AND AT A MINIMUM GRADE OF 0.50%.
- CATCHBASINS TO BE OPSS 705.010. (SUMPS FOR ABOVE TO BE AS SHOWN ON SITE SERVICING PLAN).
- MAINTENANCE HOLES AND CATCHBASIN MAINTENANCE HOLES TO BE OPSS 701.010 (SUMPS TO BE AS SHOWN ON SITE SERVICING PLAN). STEPS TO BE OPSS 405.010. ALL MAINTENANCE HOLES TO BE EQUIPPED WITH FROST STRAPS IN ACCORDANCE WITH OPSS 701.100 INSTALLED WITH QUICK ANCHORS.
- CATCHBASIN AND CATCHBASIN MAINTENANCE HOLES TO HAVE FRAME AND GRATES IN ACCORDANCE WITH OPSS 400.020.
- MAINTENANCE HOLE TO HAVE FRAME AND COVER IN ACCORDANCE WITH OPSS 401.010, TYPE A.
- CATCHBASIN AND MANHOLE ADJUSTMENTS TO BE IN ACCORDANCE WITH OPSS 408.
- ALL INSTALLED SANITARY AND STORM SEWERS TO BE INSPECTED BY CCTV EQUIPMENT IN ACCORDANCE WITH OPSS.MUNI 409.
- THE CCTV INSPECTION OF THE EXISTING 450Ø CSP SEWER SHALL BE CARRIED OUT IN ACCORDANCE WITH OPSS. MUNI 409. THE REPORT SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR AT THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING EXTRA BEDDING AND/OR STRONGER PIPE IF ACTUAL TRENCH WIDTH EXCEEDS DESIGN WIDTH PIPE CLASS BASED ON TRENCH CONDITION.
- RESTORATION BEYOND LIMITS OF SITE GRADING TO BE IN ACCORDANCE WITH OPSS.MUNI 492.
- SEWER BACKFILL TO BE SELECT NATIVE MATERIAL.
- THE CONTRACTOR SHALL CLEAN OUT ALL NEW CATCH BASINS AND MANHOLES FOLLOWING PLACEMENT AND FLUSH ALL STORM SEWER PIPES BETWEEN THESE STRUCTURES.
- INSTALLATION OF THE SANITARY HOLDING TANKS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BEDDING, BACKFILL, AND APPLYING A MASTIC BAND TO ALL JOINTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASE.
- SANITARY HOLDING TANKS SHALL BE INSTALLED WITH A SEPTIC SITTER ALARM SYSTEM OR APPROVED EQUIVALENT. THE SYSTEM SHALL INCLUDE THE SENSOR IN THE TANKS, THE PANEL/HUB INSIDE THE BUILDING, AND ALL REQUIRED CABLING AND DUCT. RIGID PVC DUCT FOR CABLING SHALL BE TYPE DB2 (CSA C22.2 No. 211.1).

WATER SERVICE NOTES:

- WATER SERVICE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 441.
- WATER SERVICE TO BE LAID AT 2.0m MINIMUM COVER BELOW FINISHED GRADE.
- WATER SERVICE PIPE MATERIAL TO BE AS SHOWN IN THE PIPE CLASS AND BEDDING CHART.
- WATER SERVICE MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.50m FROM SEWERS WHEN CROSSING OR IN JOINT TRENCH.
- WATER SERVICE TO BE SWABBED, PRESSURE TESTED, DISINFECTED, AND BACTERIOLOGICALLY TESTED BY A QUALIFIED THIRD PARTY IN ACCORDANCE WITH OPSS, MECP, AND TOWNSHIP OF NORTH KAWARTHA ENGINEERING STANDARDS.
- WATER SERVICE TO BE EQUIPPED WITH WHITE 12 AWG SOLID PLASTIC COVERED TRACER WIRE, TW4 75°C 600V.
- WATER SERVICE BACKFILL TO BE SELECT NATIVE MATERIAL.
- DRY HYDRANT SHALL BE INSTALLED WITH A 150mm NIOSH FEMALE THREADED ADAPTER.
- INSTALLATION OF THE FIRE WATER HOLDING TANKS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BEDDING, BACKFILL, AND APPLYING A MASTIC BAND TO ALL JOINTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASE.
- THE WELL DRILLING WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF THE WELL, PUMP, 50mm POTABLE WATER SERVICE LINE, AND ELECTRICAL CABLING FOR THE PUMP. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF WORK INSIDE THE BUILDING. FINAL CONNECTION OF ALL ELECTRICAL CABLES SHALL BE COMPLETED BY A CERTIFIED ELECTRICIAN. THE WELL AND EQUIPMENT SHALL BE DRILLED AND SIZED TO PROVIDE 40gpm FLOW.

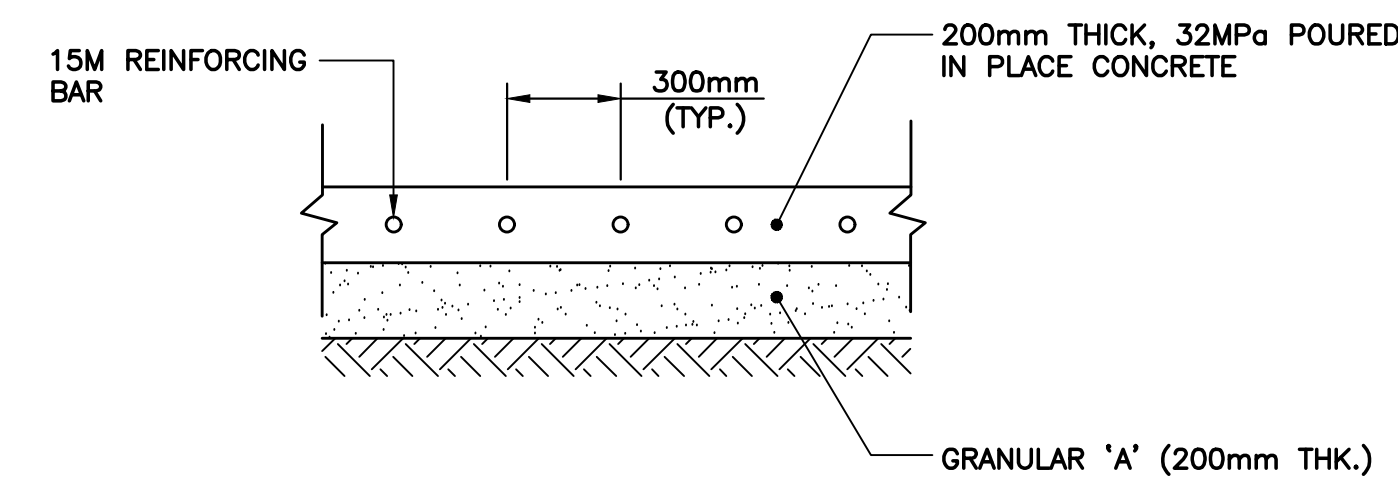
GRADING NOTES:

- CLEARING AND GRUBBING TO BE IN ACCORDANCE WITH OPSS.MUNI 201.
- GRADING TO BE IN ACCORDANCE WITH OPSS.MUNI 206.
- REMOVALS TO BE CARRIED OUT IN ACCORDANCE WITH OPSS.MUNI 510.
- EXCESS MATERIALS TO BE MANAGED IN ACCORDANCE WITH OPSS.MUNI 180.
- SUBGRADE TO BE COMPACTED TO 95% SPMD. IN ACCORDANCE WITH OPSS.MUNI 501.
- GRANULAR 'B' TYPE 1' SUBBASE AND GRANULAR 'A' BASE TO BE IN ACCORDANCE WITH OPSS.MUNI 314 AND OPSS.MUNI 1010, COMPACTED TO 100% SPMD IN ACCORDANCE WITH OPSS.MUNI 501.
- HOT MIX ASPHALT TO BE IN ACCORDANCE WITH OPSS.MUNI 310 AND 1150, COMPACTED TO 92% MAXIMUM RELATIVE DENSITY.
- ASPHALT BINDER TO BE PGAC 58-34 IN ACCORDANCE WITH OPSS.MUNI 1003.
- CONCRETE SIDEWALK TO BE IN ACCORDANCE WITH OPSS.MUNI. 351.
- CONCRETE BARRIER CURB TO BE 32MPa IN ACCORDANCE WITH OPSS.MUNI 353.
- RIP-RAP TO BE IN ACCORDANCE WITH OPSS.MUNI 511.
- PAVEMENT MARKING TO BE WATER-BORNE TRAFFIC PAINT IN ACCORDANCE WITH OPSS 710 AND 1716. ALL PAINT LINES SHALL RECEIVE A DOUBLE APPLICATION.
- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OPSS.MUNI 805, AND SHALL BE REMOVED FOLLOWING STABILIZATION OF ADJACENT SOILS.

SEDIMENT AND EROSION CONTROL:

- SILT FENCE TO BE ERECTED ALONG THE DOWNSLOPE LIMIT OF CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
- CONSTRUCT AND MAINTAIN SEDIMENT TRAPS UNTIL SITE HAS BEEN STABILIZED.
- CONSTRUCT TEMPORARY INTERCEPTOR SWALES AND GRADE AS REQUIRED TO CONVEY SURFACE RUNOFF TO SEDIMENT TRAPS.
- CONSTRUCT MUD MAT ON CONSTRUCTION ENTRANCE. MAT TO BE 30 m LONG, 8 m WIDE, AND 0.45 m DEEP CONSTRUCTED ON 100-200 mm DIAMETER CLEAR STONE. CONTRACTOR IS RESPONSIBLE FOR CLEANING THE ADJACENT ROAD OF ANY MUD WHICH IS TRACKED OFF-SITE.
- SILT SACKS TO BE INSTALLED UNDER ALL CATCHBASIN GRATES IMMEDIATELY FOLLOWING INSTALLATION. SILT SACKS TO BE CLEANED/REPLACED REGULARLY AS REQUIRED TO MAINTAIN FLOW THROUGH THE GRATE.
- CONTRACTOR IS RESPONSIBLE TO INSPECT, MAINTAIN, REPLACE, AND SUPPLEMENT SEDIMENT AND EROSION CONTROLS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE AND CONTROL ON AND OFF SITE EROSION.
- FOLLOWING COMPLETION OF PARKING AREAS AND ENTRANCE ROADS, DESIGNATED LANDSCAPE AREAS ARE TO BE FINE GRADED, TOPSOILED, AND SEEDED.
- FOLLOWING STABILIZATION OF THE SITE, THE FOLLOWING IS TO BE COMPLETED:
 - THE STORM SEWER SYSTEM IS TO BE FLUSHED AND SEDIMENT REMOVED FROM ALL STRUCTURES.
 - SILT FENCING TO BE REMOVED AND DISTURBED AREAS LANDSCAPED ACCORDINGLY.

LOCATION	DEPTH OF MATERIALS			
	HOT MIX ASPHALT		GRANULAR (FULL WIDTH)	
	SURFACE	BINDER	GRANULAR BASE	GRANULAR SUBBASE
HEAVY DUTY ASPHALT	50mm HL 3	50mm HL 8	150mm 'A'	450mm 'B', TYPE I



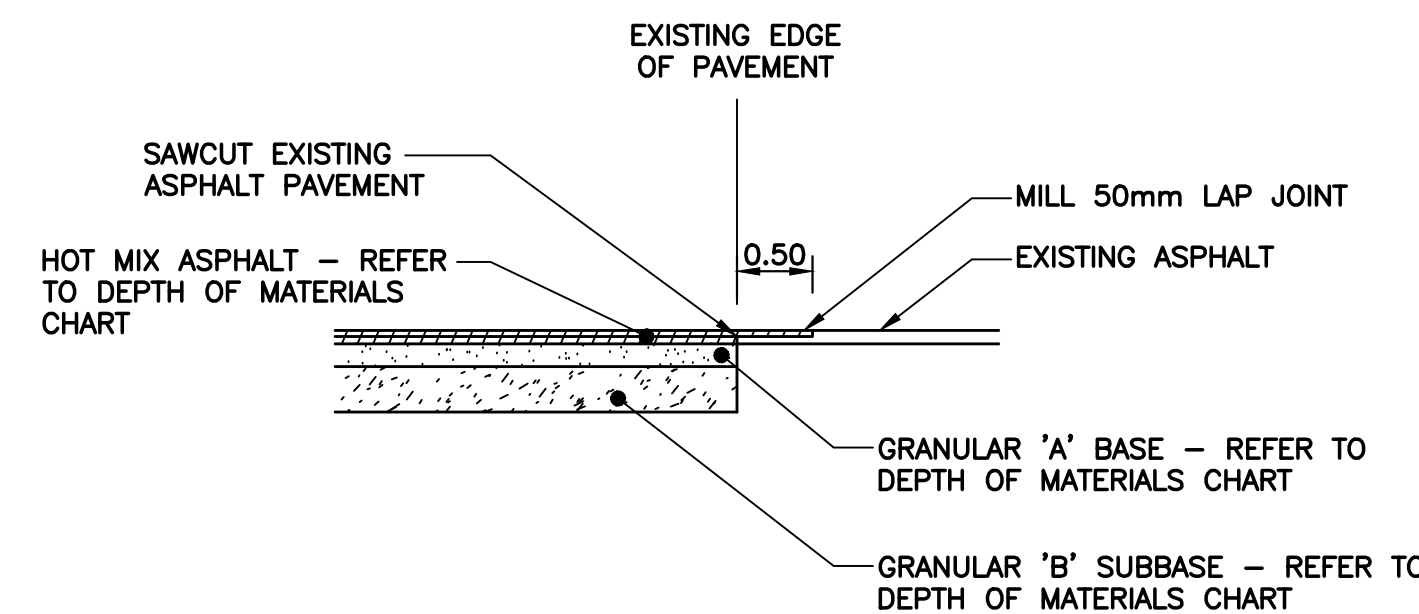
CONCRETE PAD FOR PROPANE TANK
N.T.S.

SIGN LEGEND



PIPE CLASS & BEDDING:

- STORM SEWER**
PVC - CSA - B182.4 - CLASS 320
PE - CSA - B182.6
GRANULAR 'A' BEDDING IN ACCORDANCE WITH OPSS 802.010
- SANITARY SERVICE**
PVC CAN/CSA - B182.2 - SDR 28
GRANULAR 'A' EMBEDMENT IN ACCORDANCE WITH OPSS 802.010
- WATER SERVICE**
CROSS-LINKED POLYETHYLENE TUBING - CSA B137.5
GRANULAR 'A' EMBEDMENT IN ACCORDANCE WITH OPSS 802.010
- SUBDRAIN, TRENCH AND FOOTING DRAINS**
HDPE CORRUGATED, GEOTEXTILE WRAPPED



PAVEMENT CONNECTION DETAIL
N.T.S.

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maclean jaunkains miller architects
425 edelweide street west level 6
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CIVIL ENGINEERS

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GRANDVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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t: 705.656.4531
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NORTH ARROW SEAL

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DRAWING TITLE

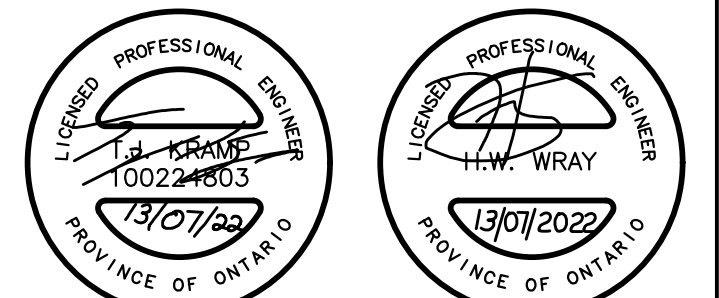
NOTES AND DETAILS

SCALE

AS SHOWN

DATE

JULY 12, 2021

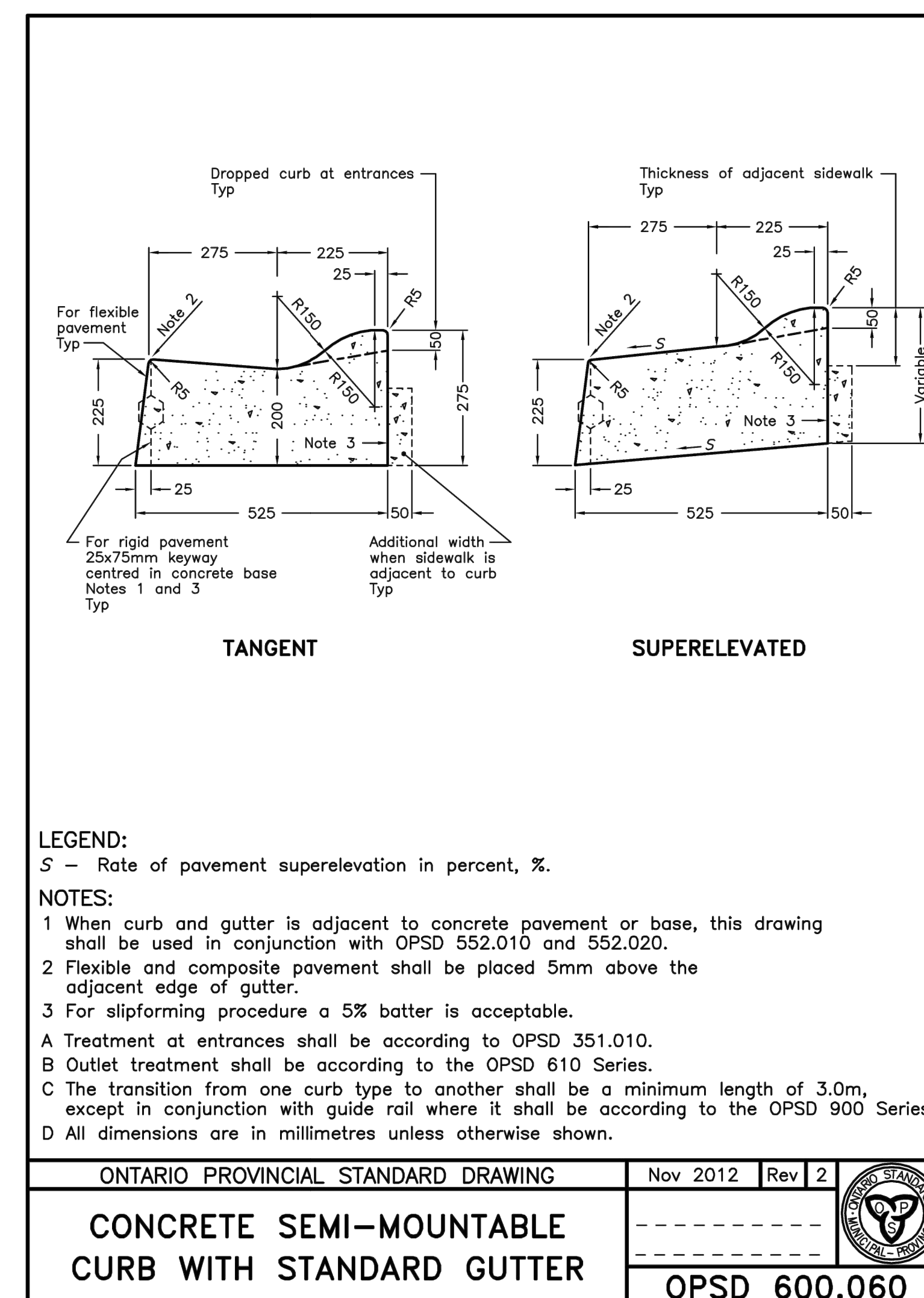
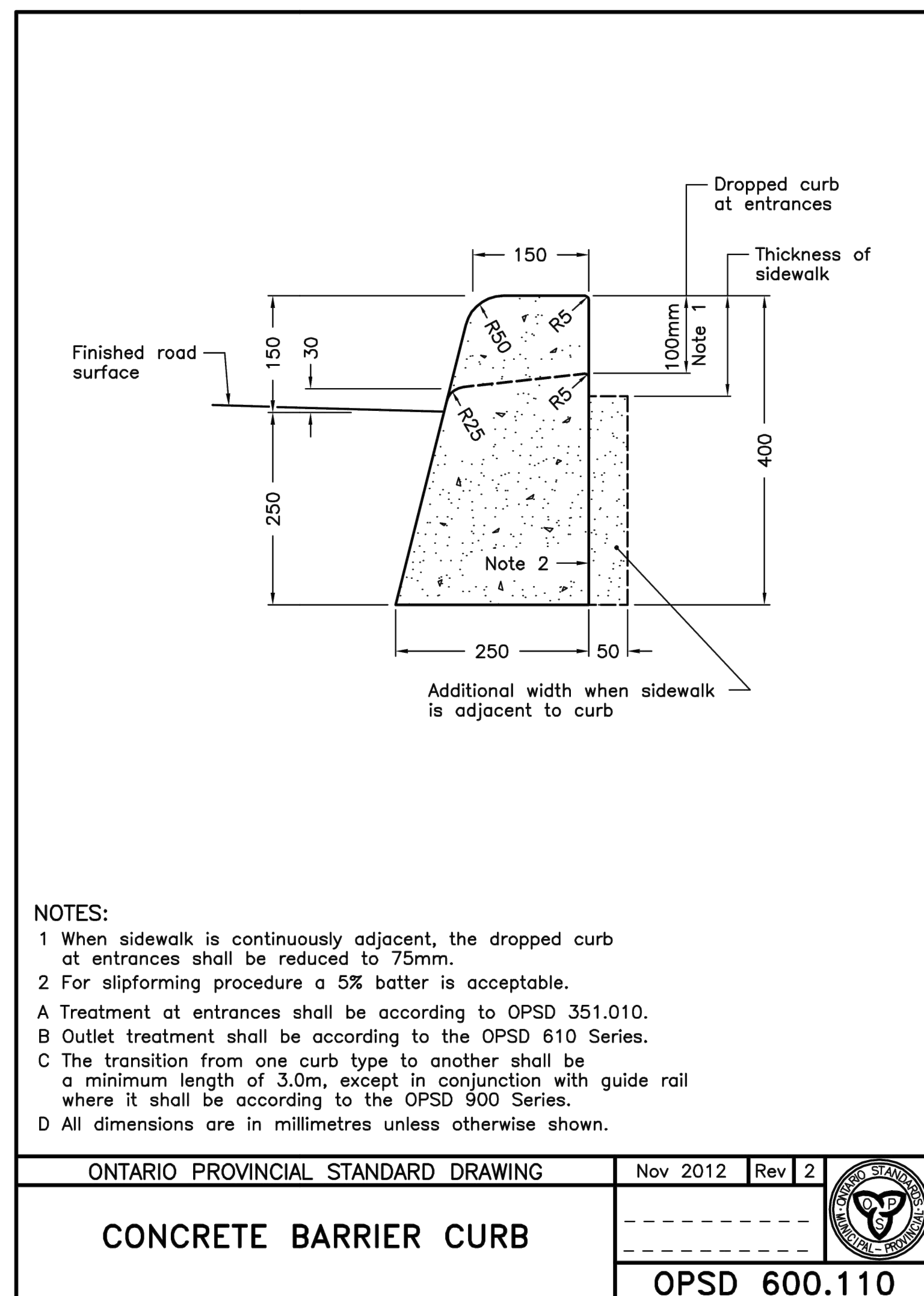
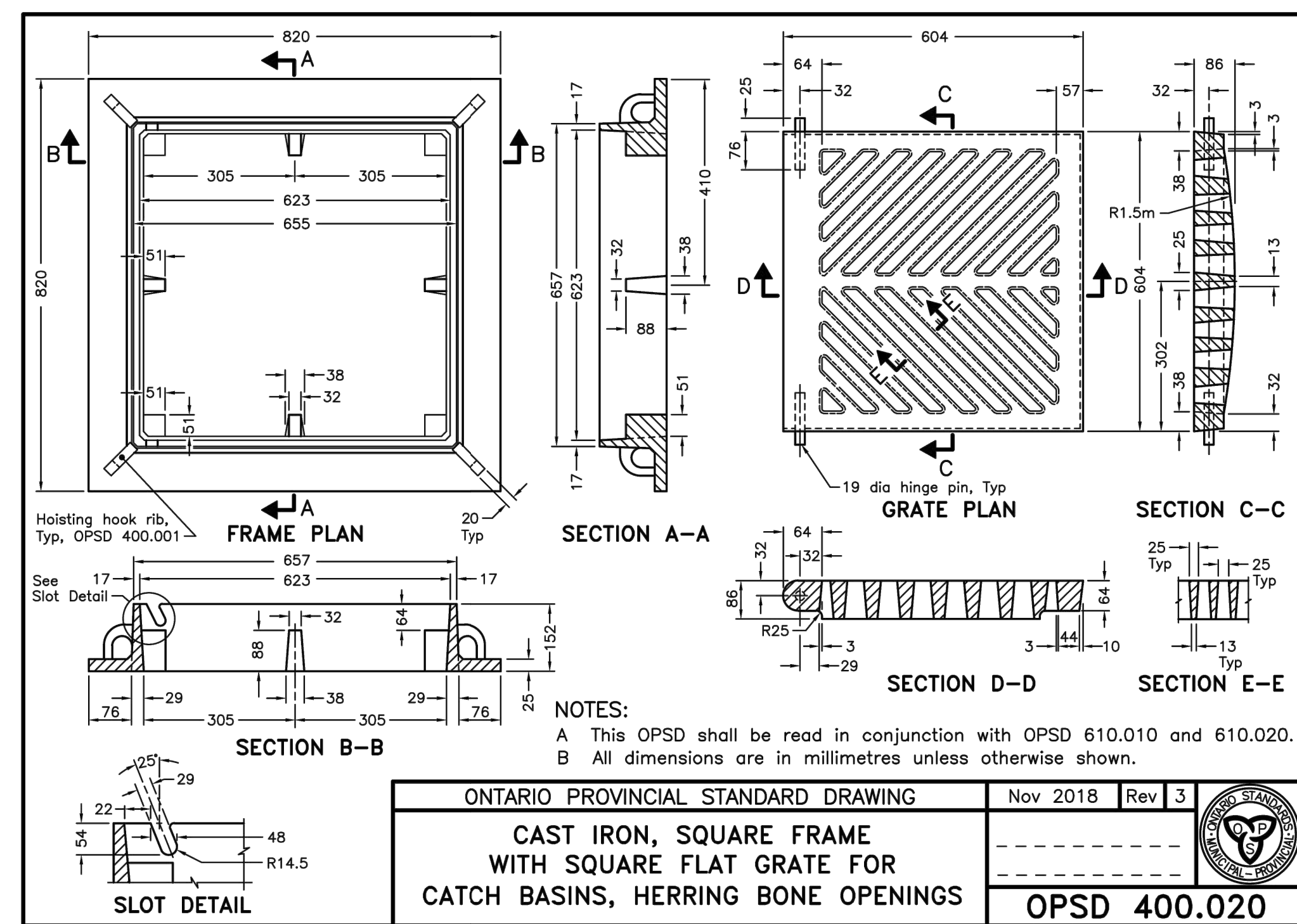
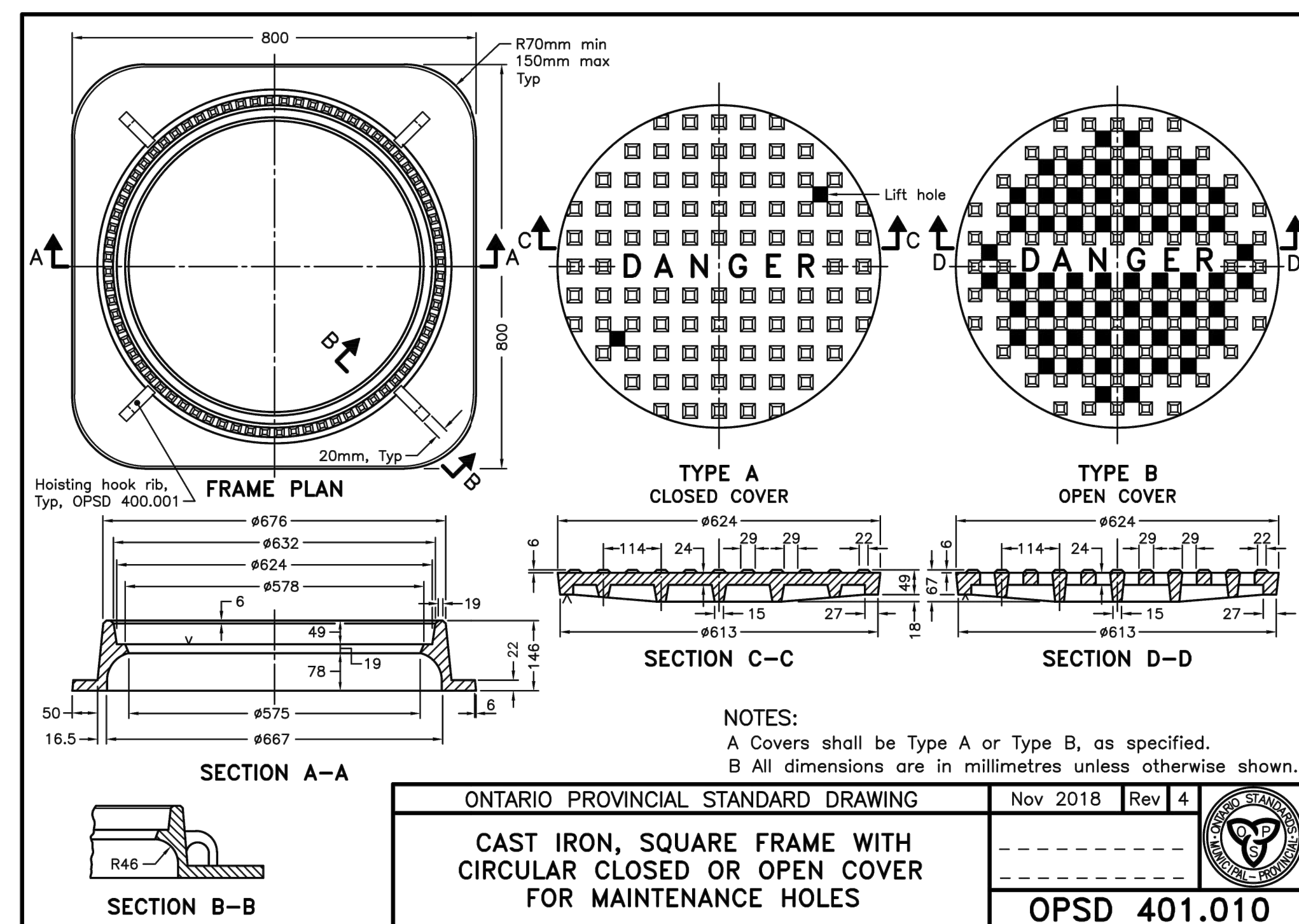
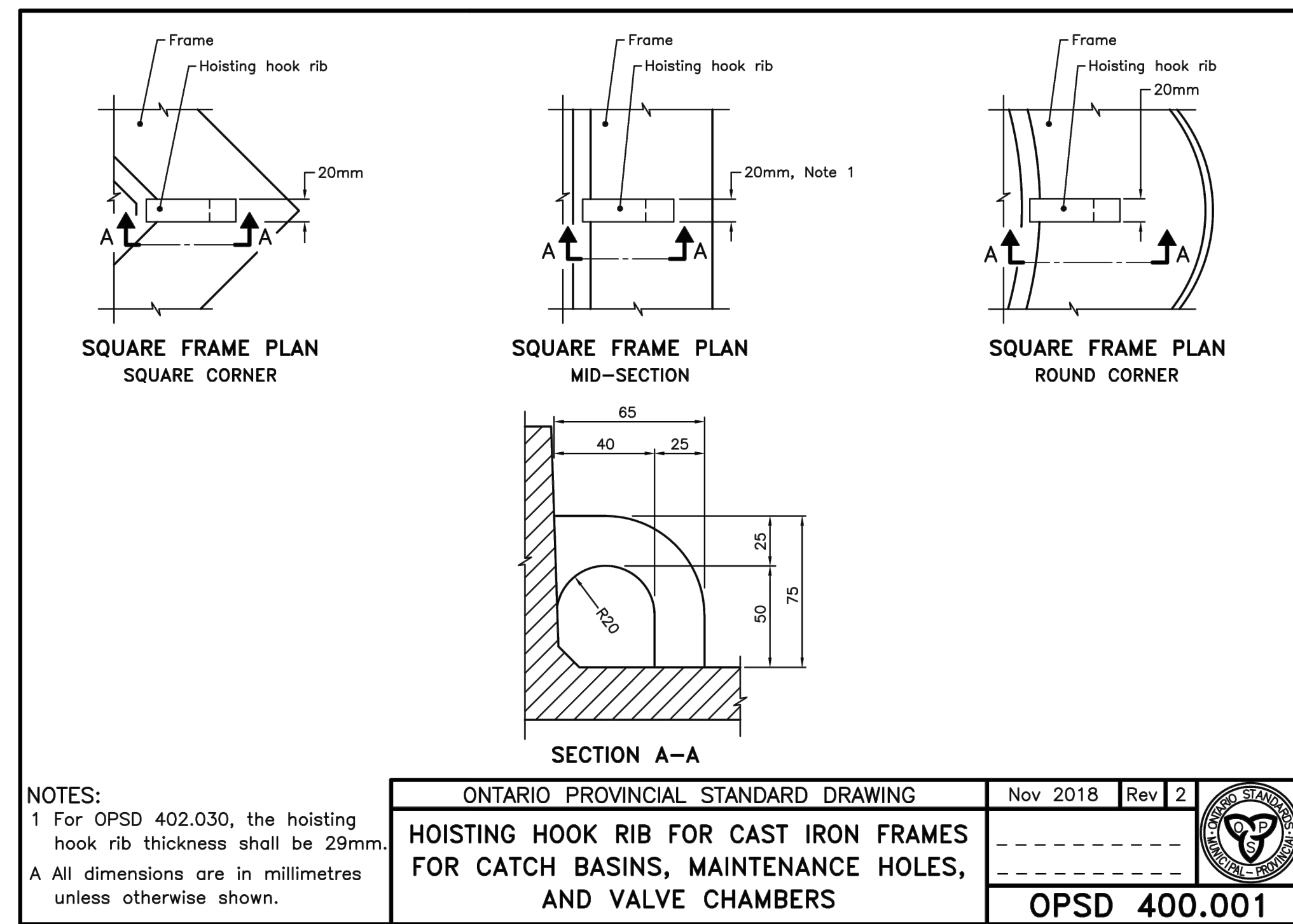


PROJECT NUMBER

2102

DRAWING NUMBER

C-02



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1	ISSUED FOR TENDER	AUGUST 25, 2021	HW
2	ISSUED FOR BUILDING PERMIT	SEPTEMBER 9, 2021	HW
3	ISSUED FOR CIVIL ADDENDUM 1	SEPTEMBER 17, 2021	HW
4	REVISED BP & TENDER SUBMITAL	JANUARY 20, 2022	HW
5	ISSUED FOR CONSTRUCTION	JULY 15, 2022	HW
6			
7			
8			

MJMA
 maclean jaunkalns miller architects
 425 adelade street west level 6
 toronto ontario m5x 3c1
 416.593.6796
 www.mjmaarchitects.com

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 CIVIL ENGINEERS
 229 BRADWAY - UNIT 1
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416.593.5300 FAX 416.593.4840

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 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE
 STANDARDS

SCALE
 AS SHOWN

DATE
 AUGUST 24, 2021

PROFESSIONAL ENGINEER
 I. A. KRASINSKI
 100224803
 17/07/2022
 PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER
 H.W. WRAY
 131072022
 PROVINCE OF ONTARIO

PROJECT NUMBER
 2102

DRAWING NUMBER
 C-03

SUMP DETAIL
300mm Note 1
Granular bedding

ALTERNATIVES
Bottom riser section with inlet and outlet openings to suit
Bench or sump as specified
Granular bedding

A PRECAST SLAB BASE
Riser section
150
150
300
Steel reinforcement as specified
Granular bedding

B CAST-IN-PLACE BASE
Riser section
300
275
300
Flat cap

C PRECAST FLAT CAP
Riser section
300mm, Typ
Granular bedding

NOTES:
1 The sump is measured from the lowest invert.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5

PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER
OPSD 701.010

1. Right angle bend 2. Tee connection 3. Three way junction
4. Four way junction 5. Straight through 6. Dead end
7. Wye connection 8. 45° bend

MAXIMUM SIZE HOLE IN THE WALL IN PRECAST RISER SECTIONS

Maintenance Hole Diameter	No. 7					
	No. 1-4	No. 5 and 6	No. 8	Inlet Hole	Outlet Hole	
1200	700	860	780	700	860	
1500	860	1220	960	860	1170	
1800	1220	1485	1220	1220	1485	
2400	1485	2020	1760	1485	2020	
3000	1930	2450	2300	1930	2450	
3600	2470	3085	2730	2470	3085	

NOTES:
1 Slopes shall be maintained from the outlet hole opening for top of benching.
A Concrete for benching shall be 30MPa.
B When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.
C Benchings slope and height shall be as specified.
D When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be prebenched at the manufacturer with standardized benching slope and channel orientation.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 4

MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES
OPSD 701.021

PLAN OF RISER WITH HOOP STEEL
#6.35mm hoop steel
Area hoop steel permitted

PLAN OF RISER WITH WWR
WWR 250mm²/m
Area hoop steel permitted

PLAN OF MONOLITHIC BASE WITH REINFORCING STEEL BARS AND WWR
4-15M @ 300mm c/c
Place rebar at any orientation to C
WWR 250mm²/m
Reinforcing shall overlap min 25mm both ways

SECTION A-A RISERS < 900mm HIGH
#1200
125
300 to 600mm
75
150
Area hoop steel permitted

SECTION B-B
WWR 250mm²/m
WWR 500mm²/m each way, place WWR at any orientation to C
300 to 2400mm
125
Area hoop steel permitted

SECTION C-C
#1200
125
WWR 250mm²/m
Varies from 450 to 2400mm, 150mm increments

NOTES:
A This drawing shall be read in conjunction with OPSD 701.030 and 701.032.
B Centre reinforcing steel in riser ±20mm.
C Steps shall be according to OPSD 405.010 or 405.020.
D All dimensions are nominal.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 2

PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS 1200mm DIAMETER RISER AND MONOLITHIC BASE
OPSD 701.031

1200mm DIAMETER MAINTENANCE HOLE
Tapered top
Flat cap
Riser section
Monolithic base or base slab with riser
10m max

PLAN OF TAPERED TOP
#685
230
WWR 250mm²/m

PLAN OF FLAT CAP WITH REINFORCING STEEL BARS
2-15M @ 75mm c/c
#685
2-15M @ 150mm
2-15M @ 150mm c/c
#685
2-15M @ 150mm c/c

PLAN OF FLAT CAP WITH WWR
WWR 500mm²/m each way, place WWR parallel and square to C

SECTION A-A TAPERED TOP WITH HOOP STEEL
#1200
125
1200
600
600
R2
R2

SECTION A-A TAPERED TOP WITH WWR
#1200
125

SECTION B-B
#1450
205
#685

SECTION C-C
#1450
205
#685

NOTES:
A This drawing shall be read in conjunction with OPSD 701.031 and 701.032.
B Centre reinforcing steel in riser ±20mm.
C Steps shall be according to OPSD 405.010 or 405.020.
D All dimensions are nominal.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 4

PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS 1200mm DIAMETER TAPERED TOP AND FLAT CAP
OPSD 701.030

PLAN OF BASE SLAB WITH REINFORCING STEEL BARS
4-15M @ 300mm c/c
15M bent bars as shown or ring of continuous WWR as shown on Section B-B

PLAN OF BASE SLAB WITH WWR
Ring of WWR continuous all around, Lap 2 cross wires + 100mm or weld, Note 1, or bent bars as per Section A-A
WWR 500mm²/m each way
Place WWR at any orientation to C

SECTION A-A
#1450
50
100
15M bent bars as shown or ring of continuous WWR as shown on Section B-B

SECTION B-B
Ring of WWR min 500mm²/m each way continuous all around or bent bars as per Section A-A
#1450
40
205

NOTES:
1 Welded splice shall develop minimum 50% yield strength of bar or wire, as applicable.
A This drawing shall be read in conjunction with OPSD 701.030 and 701.031.
B Centre reinforcing steel in riser ±20mm.
C All other reinforcing steel shall have 25mm minimum cover.
D All dimensions are nominal.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 2

PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS 1200mm DIAMETER BASE SLAB
OPSD 701.032

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	AUGUST 25, 2021	HW
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MJMA
maclennan jaunkeins miller architects
425 edelweide street west level 6
toronto ontario m5x 3c1
416 593 6796
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
229 BRADWAY - UNIT 1
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED
132 BURLINGHAM STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY**

DRAWING TITLE
STANDARDS

SCALE
AS SHOWN

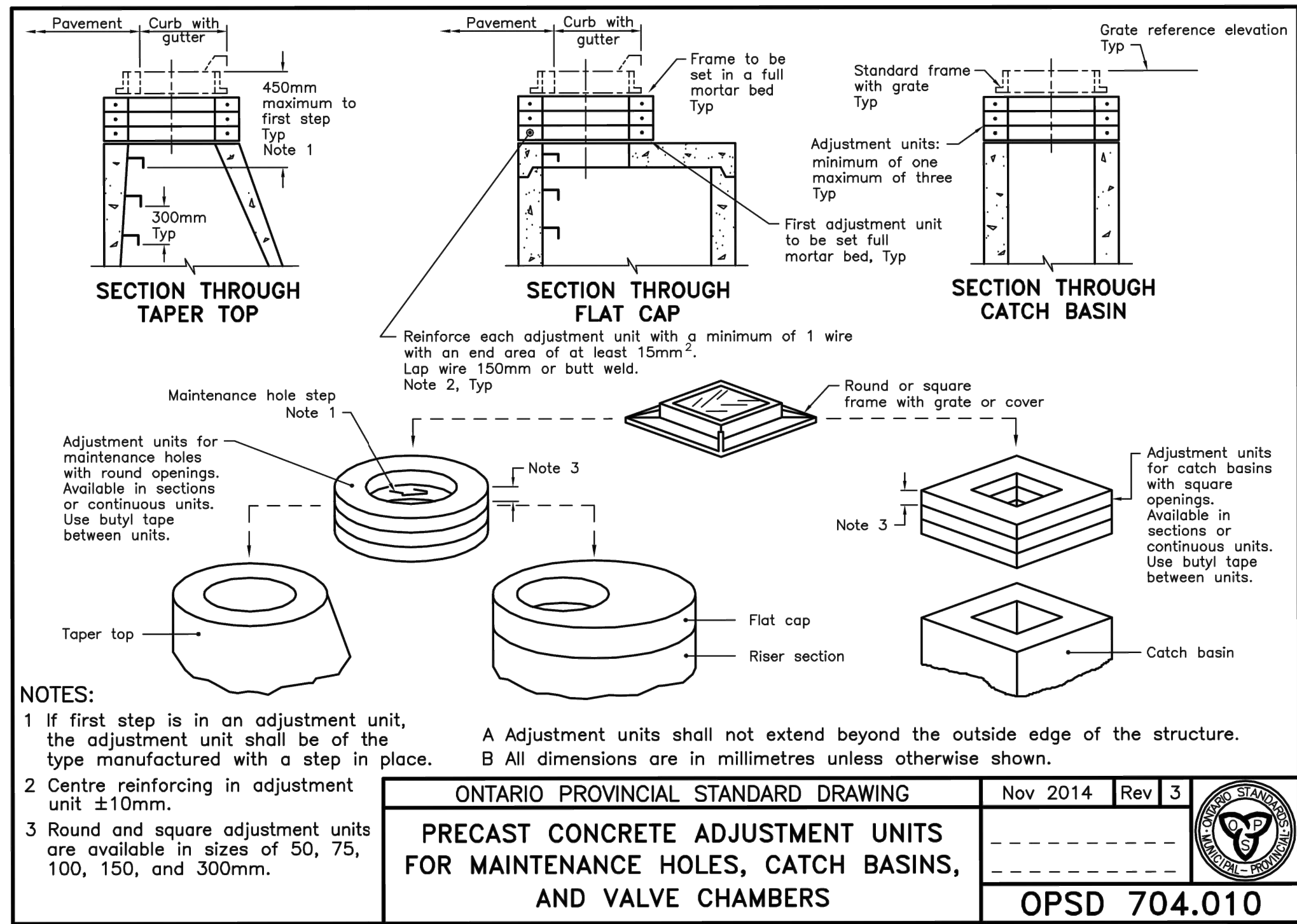
DATE
AUGUST 24, 2021

PROFESSIONAL ENGINEER
100224803
13/07/2022
PROVINCE OF ONTARIO

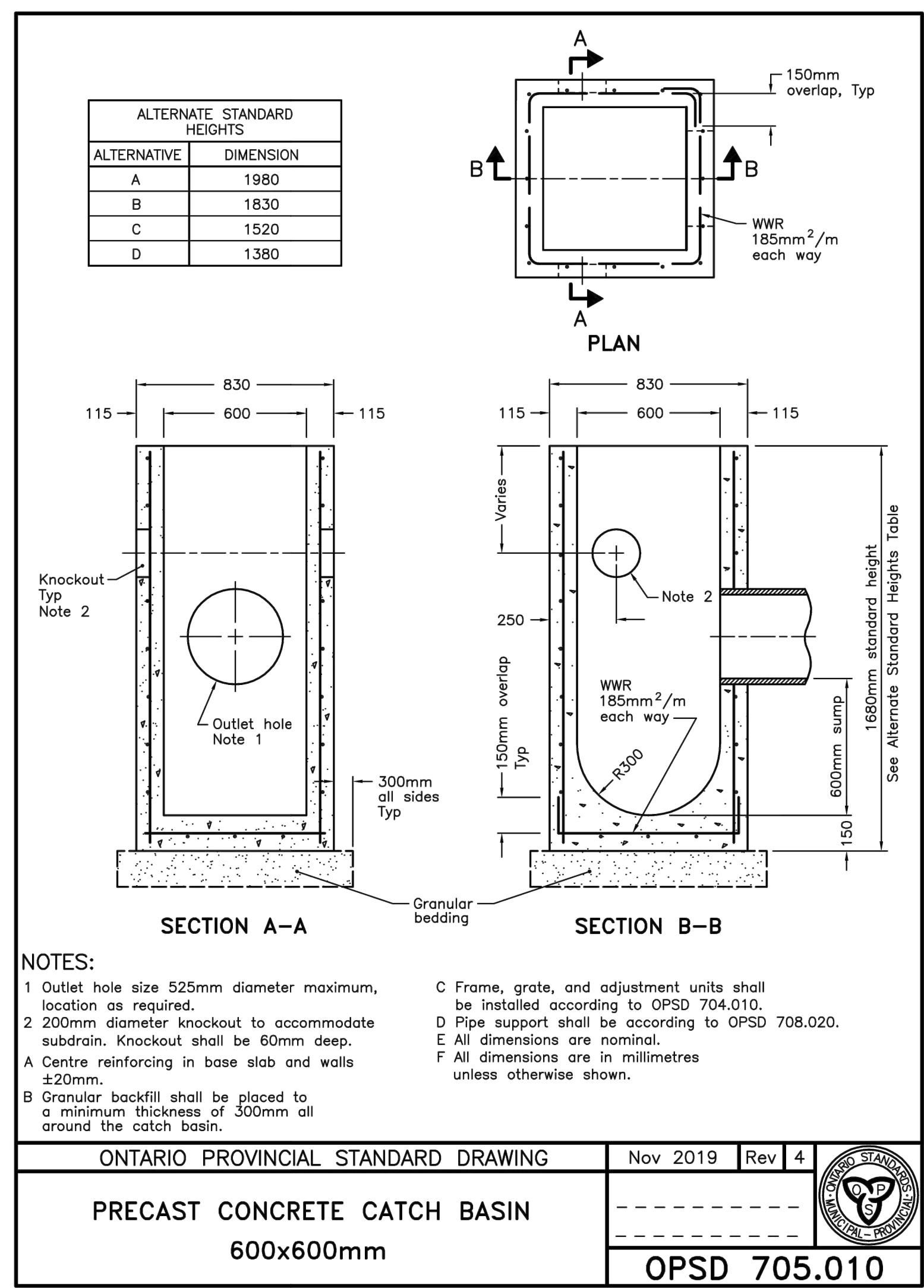
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11.W. WRAY
13/07/2022
PROVINCE OF ONTARIO

PROJECT NUMBER
2102
DRAWING NUMBER

C-04



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3	
PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS			
			OPSD 704.010

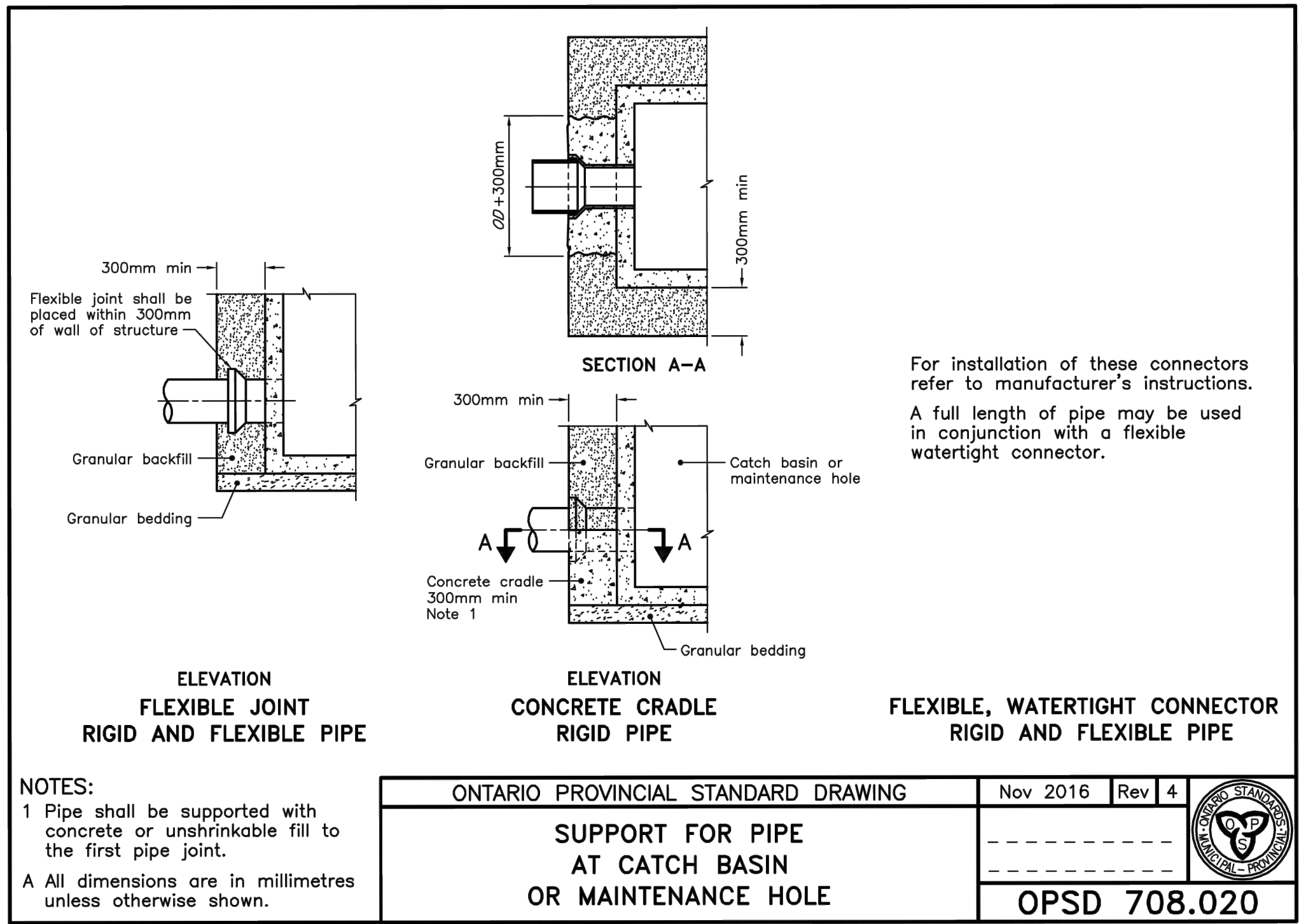


ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2019	Rev 4	
PRECAST CONCRETE CATCH BASIN 600x600mm			
			OPSD 705.010

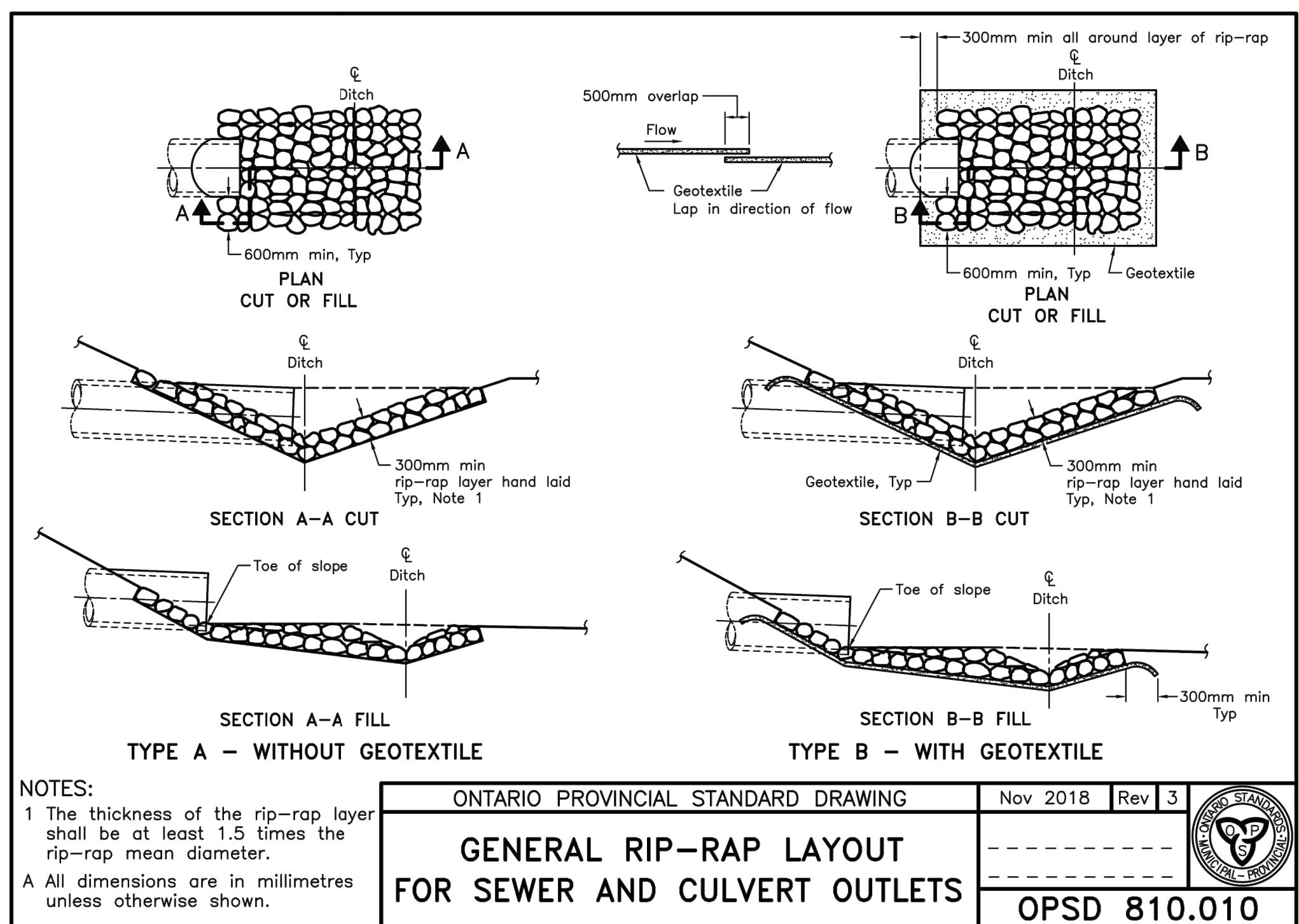
PIPE DIA mm	TRENCH WIDTH	MAXIMUM HEIGHT OF FILL				MINIMUM HEIGHT OF FILL
		320 kPa		RSC 160		All Pipe Classes
		Granular A	Granular B (Type I and II)	Granular A	Granular B (Type I and II)	Granular B (Type I and II)
100	0.5	9.8	6.7	-	-	0.3
150	0.6	9.8	7.6	-	-	0.3
200	0.7	8.5	5.8	-	-	0.3
250	0.7	10.1	6.7	-	-	0.3
300	0.8	11.0	7.3	-	-	0.3
375	0.9	9.8	6.4	-	-	0.3
450	1.0	10.1	6.7	-	-	0.3
525	1.1	9.1	6.1	-	-	0.3
600	1.2	10.7	7.0	-	-	0.3
750	1.4	9.8	6.4	-	-	0.3
900	1.6	8.8	6.1	-	-	0.3
1050	1.8	-	-	6.1	4.3	0.3
1200	2.0	-	-	6.4	4.6	0.3
1500	2.4	-	-	6.4	4.3	0.6

Notes:
 A The table applies to dual wall corrugated polyethylene gravity sewer pipe according to CSA B182.6 and CSA B182.8.
 B Pipe diameters 1050 to 1500mm are listed with a constant RSC 160 value for convenience. Minimum pipe stiffness values are listed in Table 3 of CSA B182.8.
 C Trench width is based on Class I compacted material for Granular A and Class II compacted material to 95% of the maximum dry density for Granular B.
 D The table based on backfill density of 2243 kg/m³.
 E The table presumes groundwater is at or below the springline of the pipe.
 F Minimum height of fill over the pipe is measured from bottom of flexible pavement or top of rigid pavement.
 G Maximum height of fill is measured from the finished surface to top of pipe.
 H This OPSD shall be read in conjunction with OPSD 802.010, 802.013 and 802.014.
 I For height of fill and/or pipe sizes greater than shown, or for other design conditions, the values shall be calculated from first principles.
 J All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3	
HEIGHT OF FILL TABLE DUAL WALL CORRUGATED POLYETHYLENE GRAVITY SEWER PIPE - 320 kPa and RSC 160			
			OPSD 806.020



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2016	Rev 4	
SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE			
			OPSD 708.020



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3	
GENERAL RIP-RAP LAYOUT FOR SEWER AND CULVERT OUTLETS			
			OPSD 810.010

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MJMA
 maclennan jaunkains miller architects
 425 adelade street west level 6
 toronto ontario m5x 3c1
 416 593 6796
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TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 229 BROADWAY - UNIT 1
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416.593.5300 FAX 416.593.4840

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 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW	SEAL
-------------	------

PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
STANDARDS

SCALE
AS SHOWN
 DATE
AUGUST 24, 2021

PROFESSIONAL ENGINEER

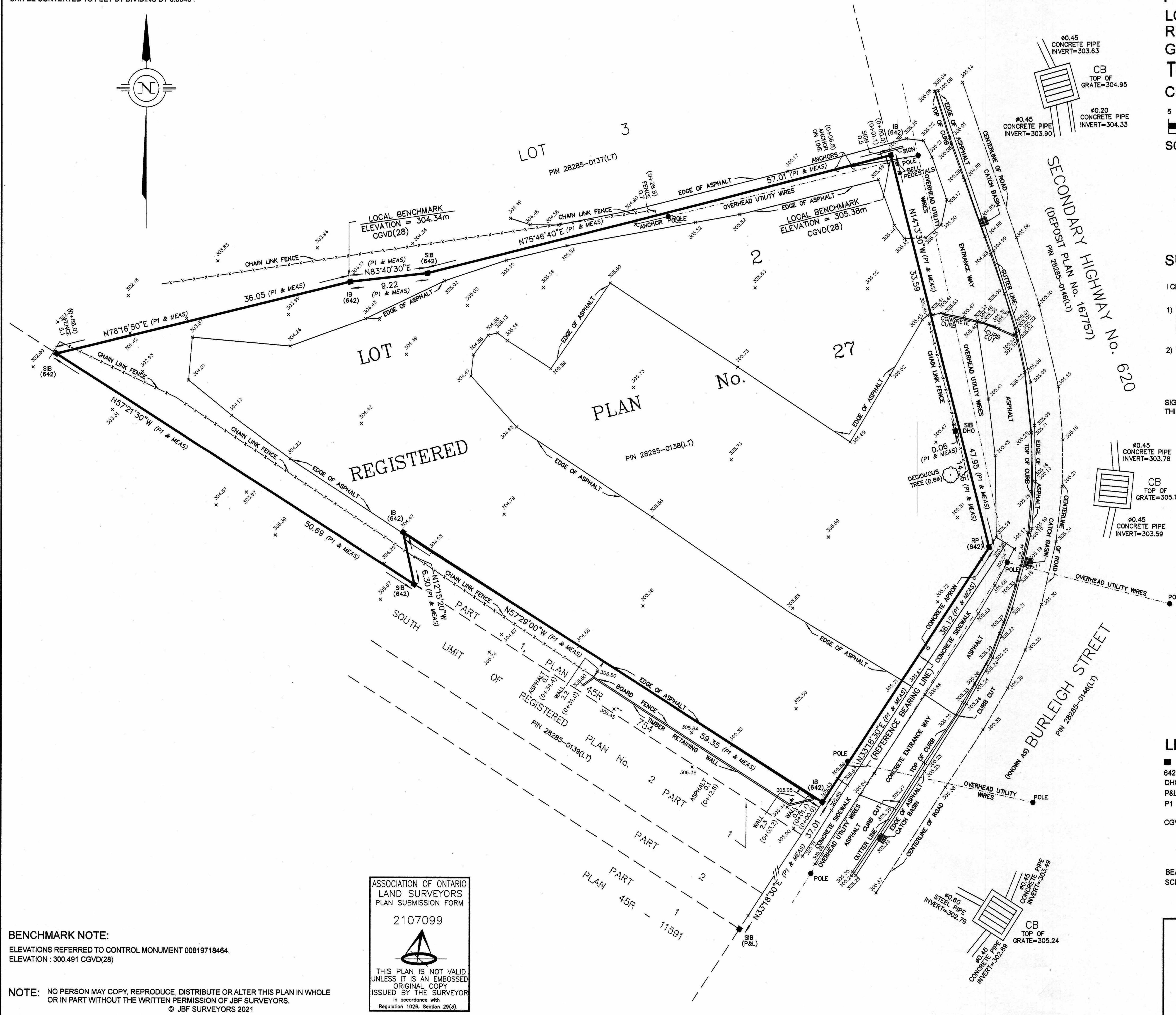
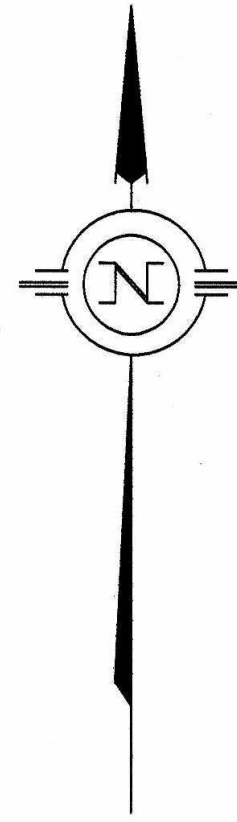
 I.A. KRAS
 100224803
 17/07/2022
 PROVINCE OF ONTARIO

PROFESSIONAL ENGINEER

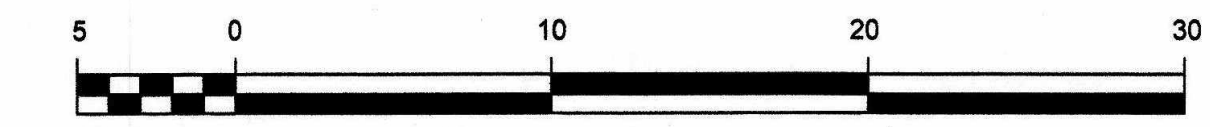
 H.W. WRAY
 131072022
 PROVINCE OF ONTARIO

PROJECT NUMBER
2102
 DRAWING NUMBER

METRIC:
DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.



**PLAN OF SURVEY OF
LOT 2
REGISTERED PLAN No. 27
GEOGRAPHIC TOWNSHIP OF ANSTRUTHER
TOWNSHIP OF NORTH KAWARTHA
COUNTY OF PETERBOROUGH**



SCALE: 1:300

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:
1) THIS SURVEY AND PLAN ARE CORRECT AND ARE IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2) THE SURVEY WAS COMPLETED ON APRIL 21, 2021

SIGNED AT LAKEFIELD, ONTARIO
THIS 2nd DAY OF MAY, 2021

Christopher E. Musclove
CHRISTOPHER E. MUSCLOVE
ONTARIO LAND SURVEYOR

LEGEND

- DENOTES SURVEY MONUMENT, FOUND
- 642 DENOTES J.G. PIERCE, O.L.S.
- DHO DENOTES DEPARTMENT OF HIGHWAYS ONTARIO
- P&L DENOTES PIERCE & LYONS, O.L.S.
- P1 DENOTES SURVEYOR'S REAL PROPERTY REPORT BY JBF SURVEYORS DATED 27th DAY OF JANUARY, 2021
- CGVD(28) DENOTES CANADIAN GEODETIC VERTICAL DATUM OF 1928

BEARINGS SHOWN HEREON ARE ASTRONOMIC DERIVED FROM THE WESTERLY LIMIT OF SECONDARY HIGHWAY No. 620 AS SHOWN ON P1, HAVING A BEARING OF N33°18'30"E



JBF SURVEYORS
44 CLEMENTI ST., BOX 70
LAKEFIELD, ON K0L 2H0
PHONE: 705-652-6198
INFO@JBFSURVEYORS.COM
WWW.JBFSURVEYORS.COM

PROJ. # 8013

BENCHMARK NOTE:
ELEVATIONS REFERRED TO CONTROL MONUMENT 00819718464,
ELEVATION : 300.491 CGVD(28)

ASSOCIATION OF ONTARIO
LAND SURVEYORS
PLAN SUBMISSION FORM
2107099
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Regulation 1028, Section 29(3).

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REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR SPA	210618	AB
2	REVISED SPA	210709	AB
3	ISSUED FOR COSTING	210721	AB
4	REVISED SPA	210809	AB
5	ISSUED FOR TENDER	210824	AB
6	REVISED TENDER	220124	AB
7	REVISED BUILDING PERMIT	220124	AB
8	-	-	-

MJMA
macleanen jaunakins miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6776
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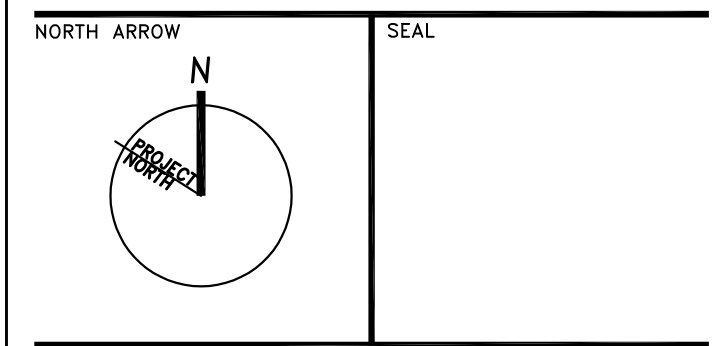
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CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416 593 5300 FAX 416 593 4840

SMITH + ANDERSON
MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416 487 8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E 705.656.4531
e: sayers@apsley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
SITE SURVEY
SCALE
NTS
DATE
JANUARY 24, 2022

PROJECT NUMBER
2102
DRAWING NUMBER

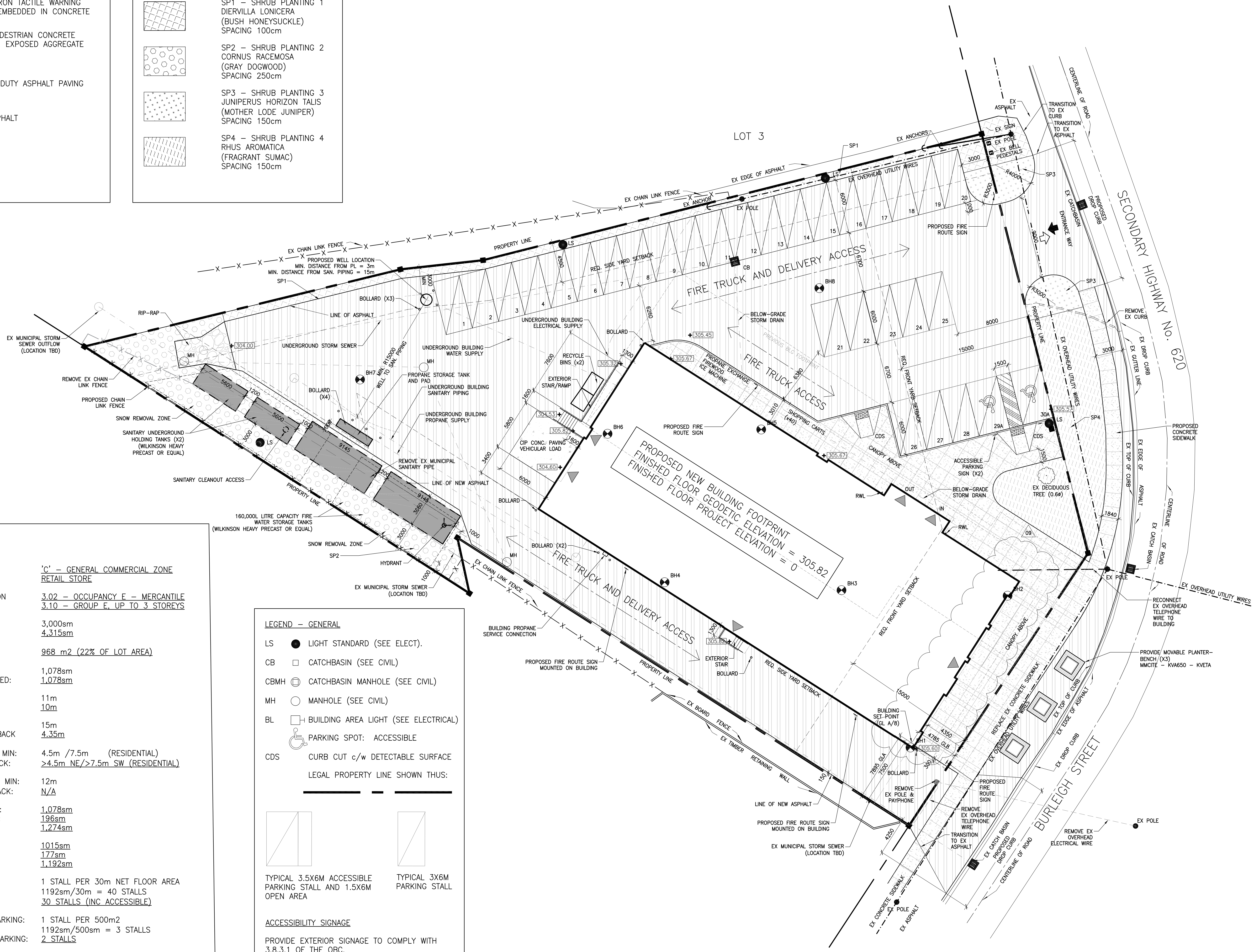
A001

LEGEND - MATERIALS	
	CAST IRON TACTILE WARNING TILES EMBEDDED IN CONCRETE
	CIP PEDESTRIAN CONCRETE PAVING, EXPOSED AGGREGATE FINISH
	HEAVY DUTY ASPHALT PAVING
	EX ASPHALT

LEGEND - PLANTING	
	SP1 - SHRUB PLANTING 1 DIERVILLA LONICERA (BUSH HONEYSUCKLE) SPACING 100cm
	SP2 - SHRUB PLANTING 2 CORNUS RACEMOSA (GRAY DOGWOOD) SPACING 250cm
	SP3 - SHRUB PLANTING 3 JUNIPERUS HORIZONTALIS (MOTHER LODE JUNIPER) SPACING 150cm
	SP4 - SHRUB PLANTING 4 RHUS AROMATICA (FRAGRANT SUMAC) SPACING 150cm

SITE STATISTICS:	
ZONING CATEGORY:	'C' - GENERAL COMMERCIAL ZONE
PERMITTED USE:	RETAIL STORE
BUILDING CODE CLASSIFICATION:	3.02 - OCCUPANCY E - MERCANTILE 3.10 - GROUP E, UP TO 3 STOREYS
LOT AREA MIN:	3,000sm
LOT AREA PROPOSED:	4,315sm
PROPOSED LOT LANDSCAPE:	968 m ² (22% OF LOT AREA)
BUILDING AREA MAX (25%):	1,078sm
BUILDING FOOTPRINT PROPOSED:	1,078sm
BUILDING HEIGHT MAX:	11m
PROPOSED BUILDING HEIGHT:	10m
REQ. SETBACK FRONT YARD:	15m
PROPOSED FRONT YARD SETBACK:	4.35m
REQ. SETBACK - SIDE YARD MIN:	4.5m / 7.5m (RESIDENTIAL)
PROPOSED SIDE YARD SETBACK:	>4.5m NE / >7.5m SW (RESIDENTIAL)
REQ. SETBACK - REAR YARD MIN:	12m
PROPOSED REAR YARD SETBACK:	N/A
GROSS GROUND FLOOR AREA:	1,078sm
GROSS SECOND FLOOR AREA:	196sm
TOTAL GROSS FLOOR AREA:	1,274sm
NET GROUND FLOOR AREA:	1,015sm
NET SECOND FLOOR AREA:	177sm
TOTAL NET FLOOR AREA:	1,192sm
REQUIRED PARKING:	1 STALL PER 30m NET FLOOR AREA 1192sm/30m = 40 STALLS
PROPOSED PARKING:	30 STALLS (INC ACCESSIBLE)
REQUIRED SPECIAL NEEDS PARKING:	1 STALL PER 500m ² 1192sm/500sm = 3 STALLS
PROPOSED SPECIAL NEEDS PARKING:	2 STALLS
REQUIRED LOADING SPACES:	1 SPACE PER 2,400sm NET FLOOR AREA 1,165sm/2,400sm = 1 SPACE
PROPOSED LOADING SPACES:	1 SPACE

LEGEND - GENERAL	
LS ●	LIGHT STANDARD (SEE ELECT.)
CB □	CATCHBASIN (SEE CIVIL)
CBMH ⊙	CATCHBASIN MANHOLE (SEE CIVIL)
MH ○	MANHOLE (SEE CIVIL)
BL □	BUILDING AREA LIGHT (SEE ELECTRICAL)
	PARKING SPOT: ACCESSIBLE
CDS	CURB CUT c/w DETECTABLE SURFACE
LEGAL PROPERTY LINE SHOWN THUS:	
	TYPICAL 3.5X6M ACCESSIBLE PARKING STALL AND 1.5X6M OPEN AREA
	TYPICAL 3X6M PARKING STALL
ACCESSIBILITY SIGNAGE	
PROVIDE EXTERIOR SIGNAGE TO COMPLY WITH 3.8.3.1 OF THE OBC.	



REVISIONS AND ISSUES			
REV	DESCRIPTION	DATE	BY
1	REVISED SPA	210809	AB
2	ISSUED FOR TENDER	210824	AB
3	REVISION TO BUILDING PERMIT	220315	AB
4	SI-01	220615	AB
5	BLG SET-OUT CAD	220715	AB
6	ISSUED FOR CONSTRUCTION	220715	AB
7	ISSUED FOR PC-01	220825	BA
8	ISSUED FOR SI-05	220825	BA
9	ISSUED FOR CONSTRUCTION R1	220925	AB
10			
11			
12			

MJMA
 maclellan jaunkalns miller architects
 425 adelade street west level 6
 toronto ontario m5v 3c1
 416 593 4794
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 TORONTO, ONTARIO, M2N 6N5
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 e: sayers@apsley.ca

NORTH ARROW

SEAL
 ASSOCIATION OF ARCHITECTS
 REGIST. ARCHITECT
 LICENSE 5362

PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLLEIGH STREET, APSLEY**

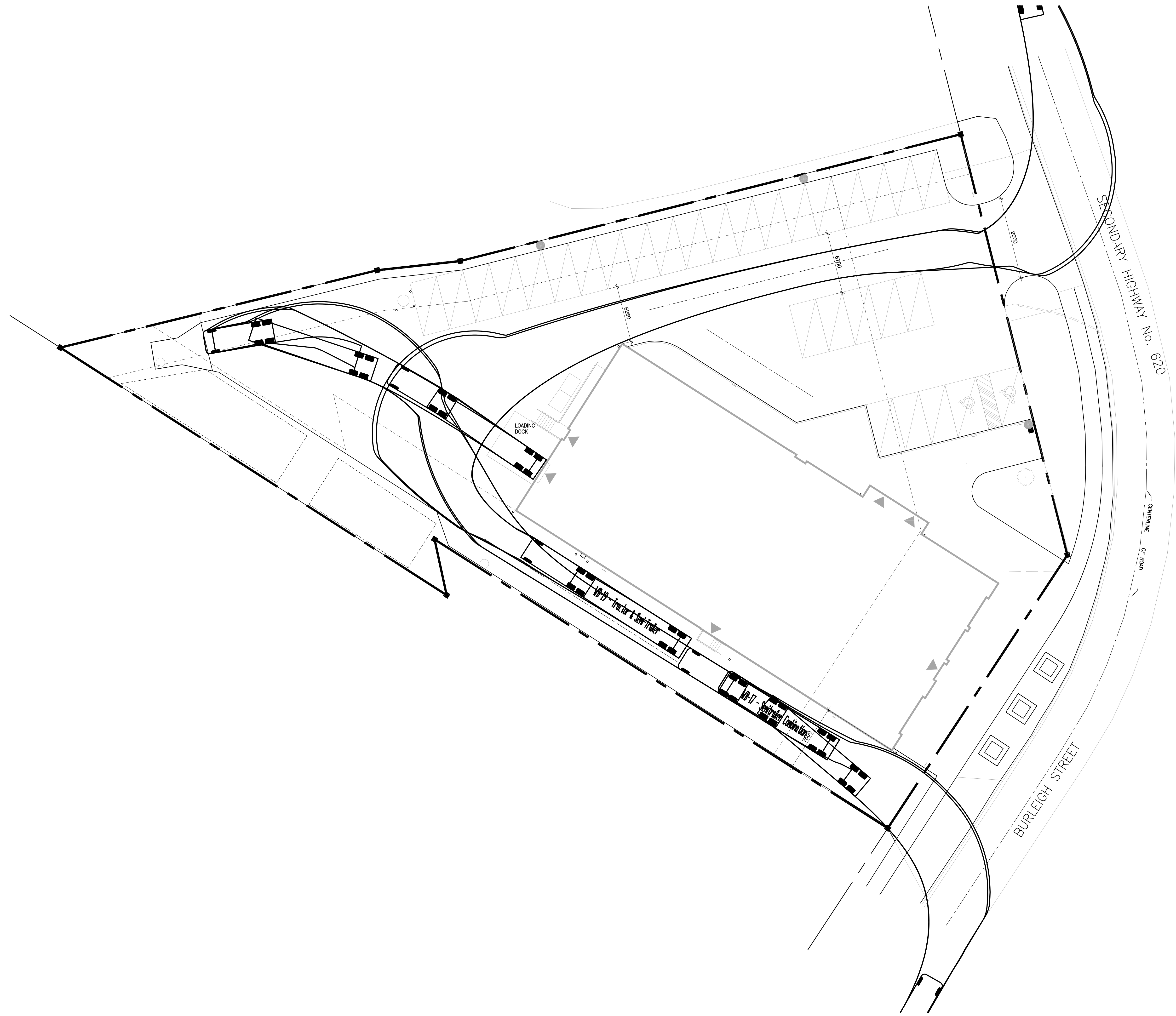
DRAWING TITLE
SITE PLAN

SCALE
1:200

DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER
A002



Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	REVISED SPA	210809	AB
2	ISSUED FOR TENDER	210824	AB
3	REVISION TO BUILDING PERMIT	220315	AB
4	SI-01	220615	AB
5	BLG SET-OUT CAD	220715	AB
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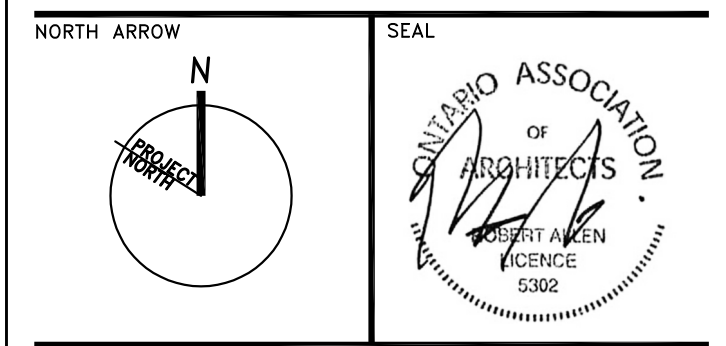
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PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
LOADING STUDY PLAN

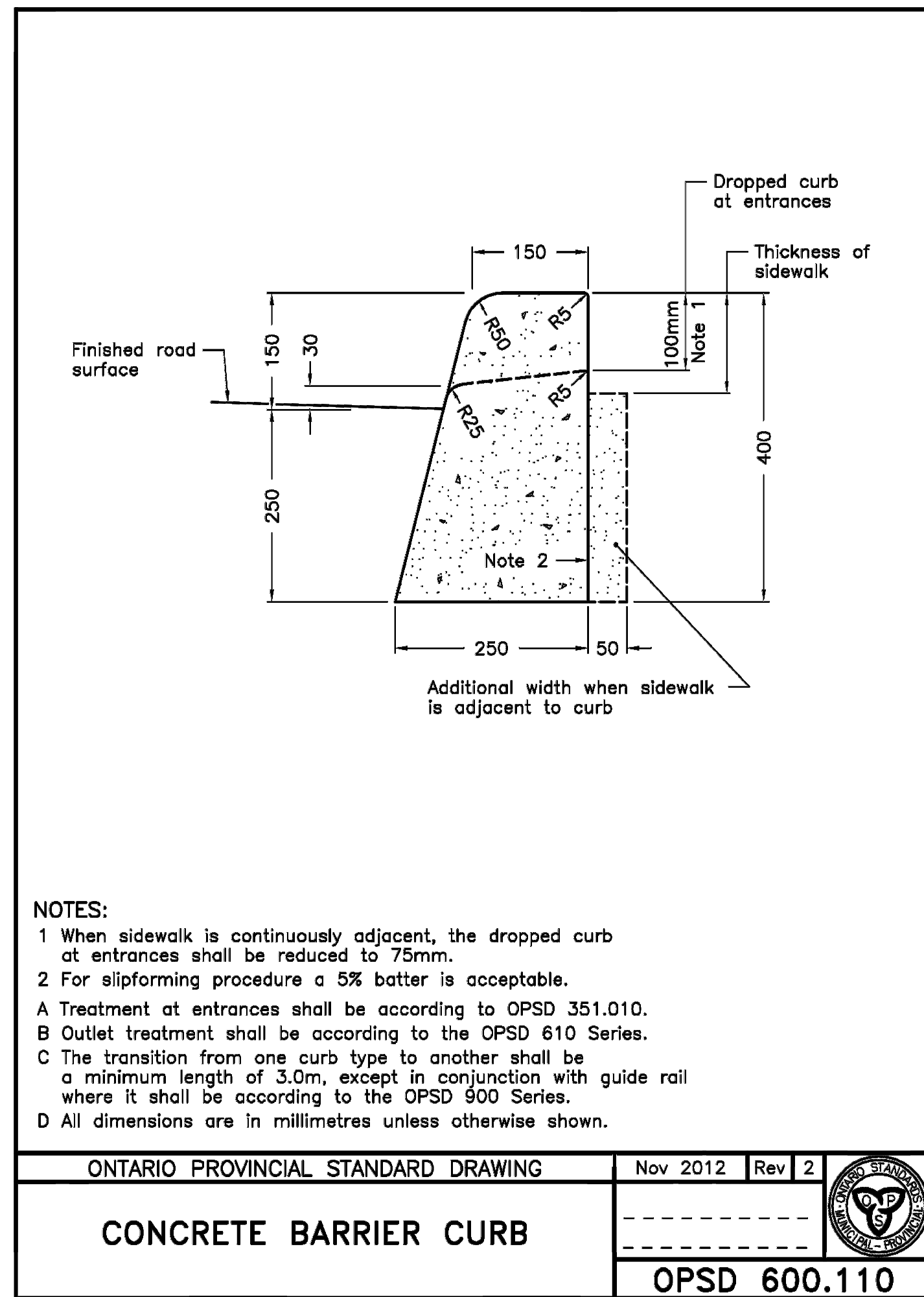
SCALE
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DATE
JULY 15, 2022

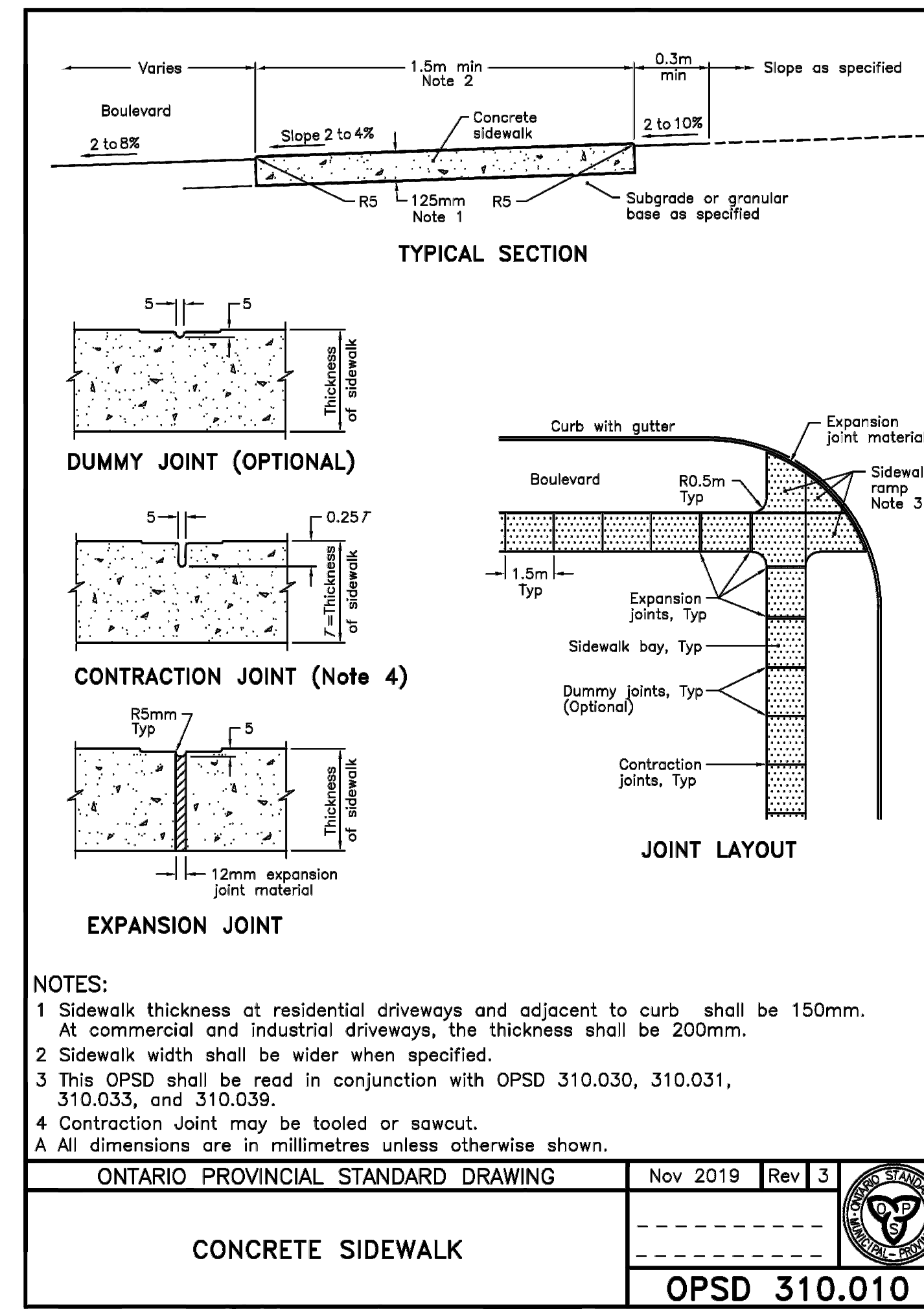
PROJECT NUMBER
2102

DRAWING NUMBER

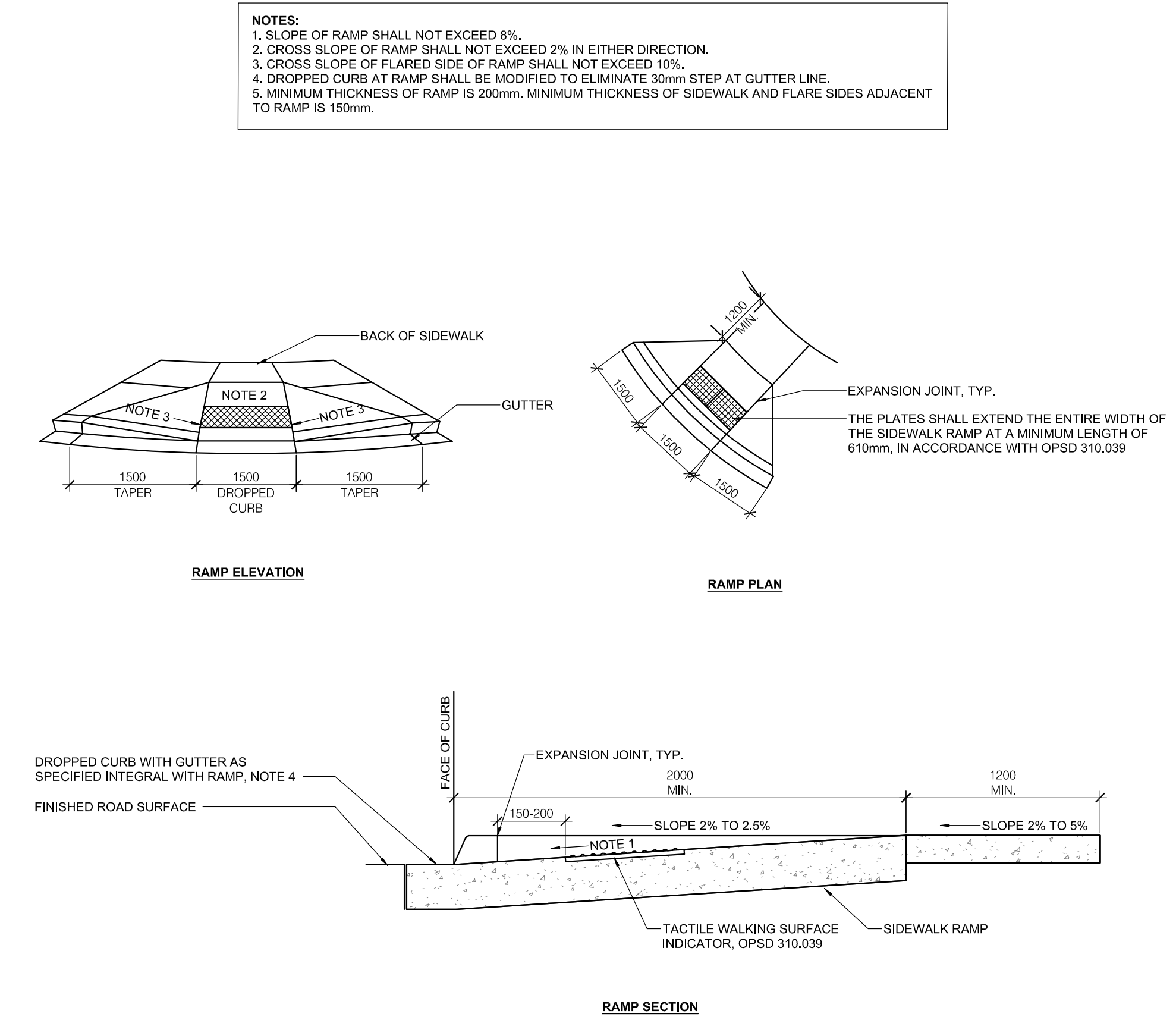
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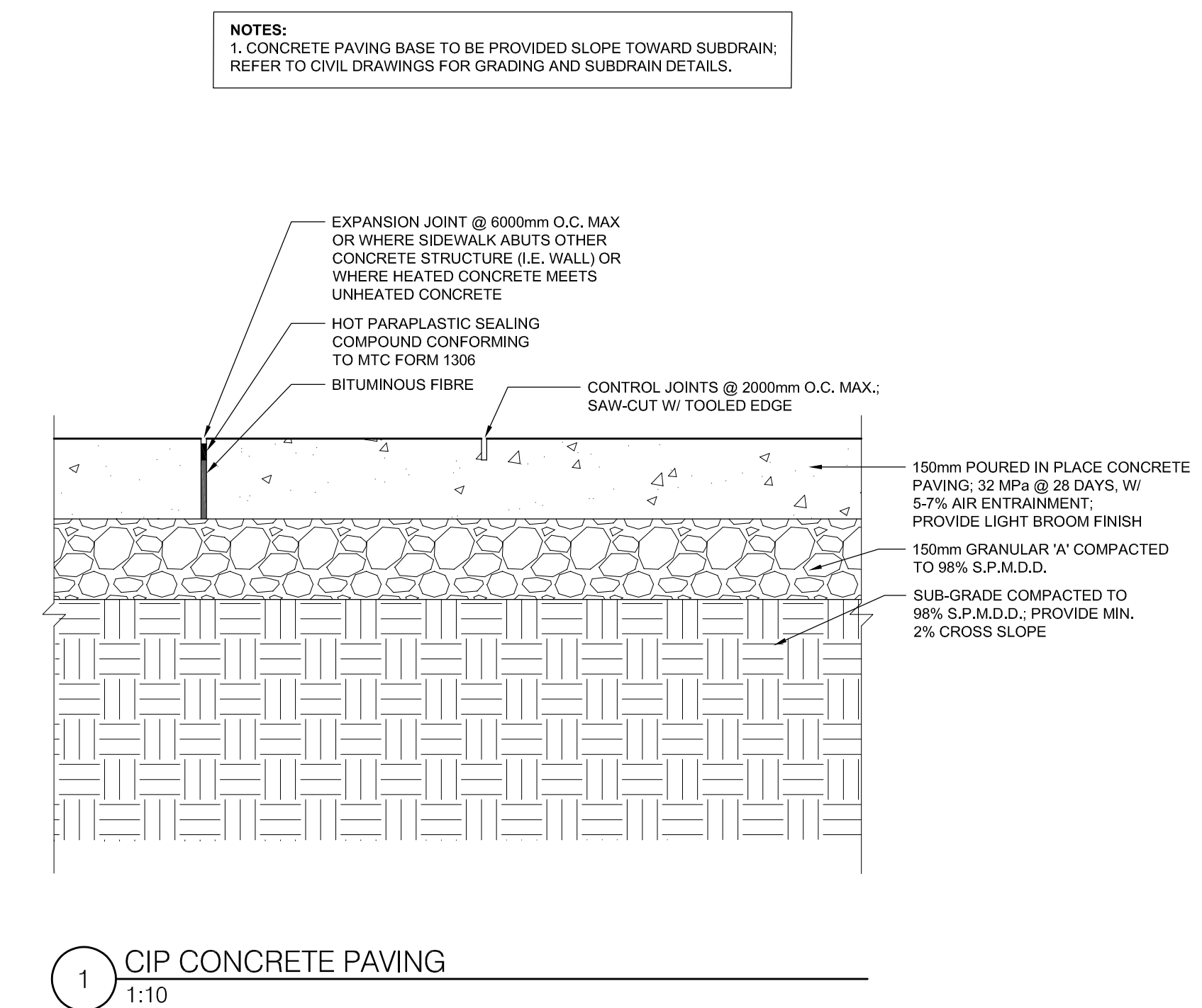
5 CONCRETE BARRIER CURB
N.T.S.



4 CONCRETE SIDEWALK
N.T.S.



3 CONCRETE SIDEWALK RAMP
N.T.S.



1 CIP CONCRETE PAVING
1:10

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PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE
 SITE PLAN
 DETAILS 1

SCALE
 AS NOTED

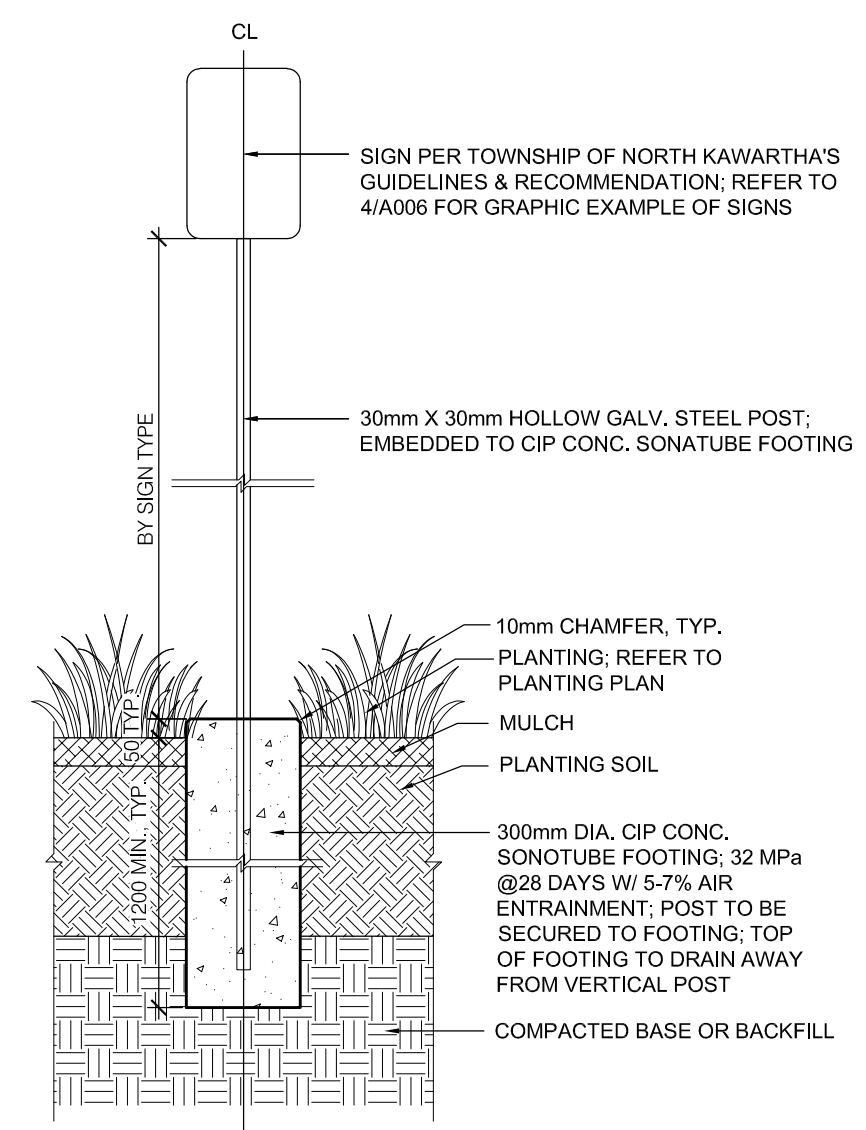
DATE
 JULY 15, 2022

PROJECT NUMBER
 2102

DRAWING NUMBER
 A005

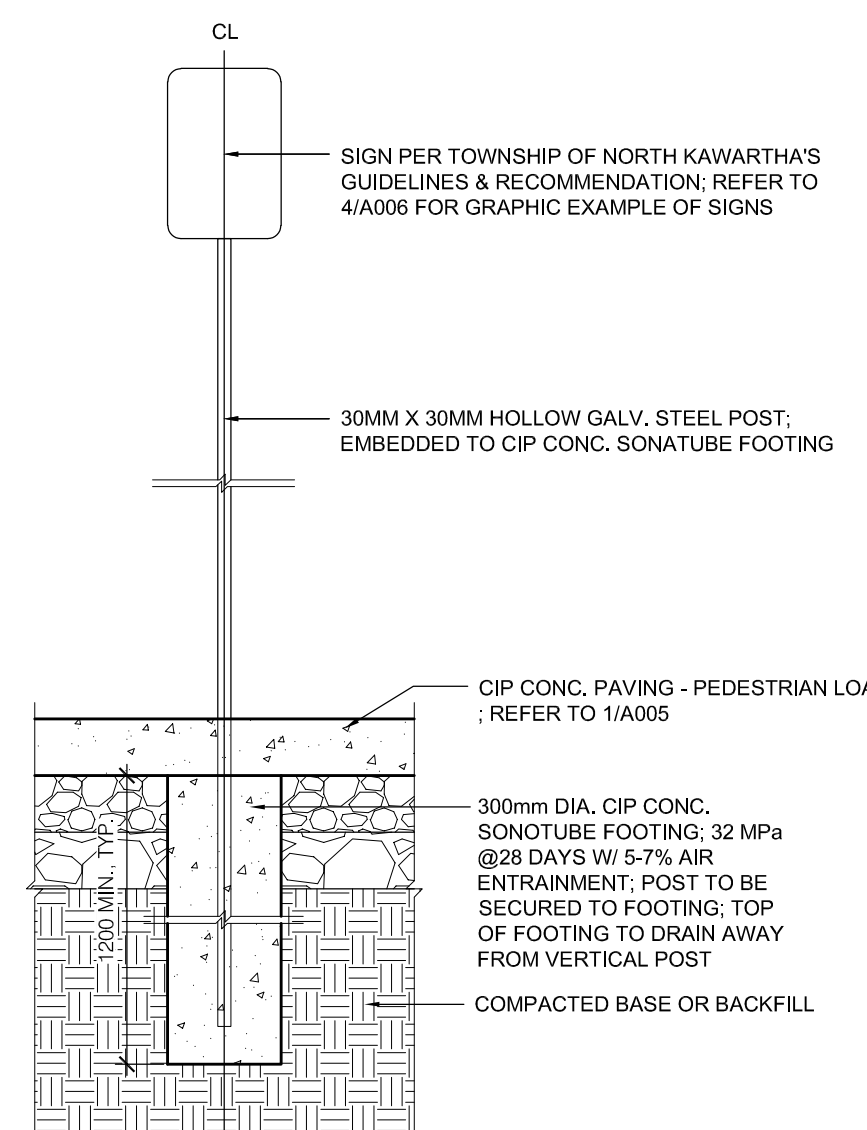
PROFESSIONAL SEAL
 ARCHITECTS
 ASSOCIATION OF ONTARIO
 REG. NO. 5362

NOTES:
 1. THE SHAPE, COLOUR, HEIGHT AND LOCATION OF SIGNS SHALL BE IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL AS PUBLISHED BY THE MINISTRY OF TRANSPORTATION.
 2. ALL SIGNS SHALL BE MANUFACTURED USING "HIGH INTENSITY" SHEETING CONFORMING TO ASTM D4956-90 TYPE III OR TYPE IV MATERIAL.
 3. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS WITH LICENSED ENGINEER'S STAMP FOR REVIEW AND APPROVAL.



6 SIGN POST AT PLANTING BEDS
 1: 20

NOTES:
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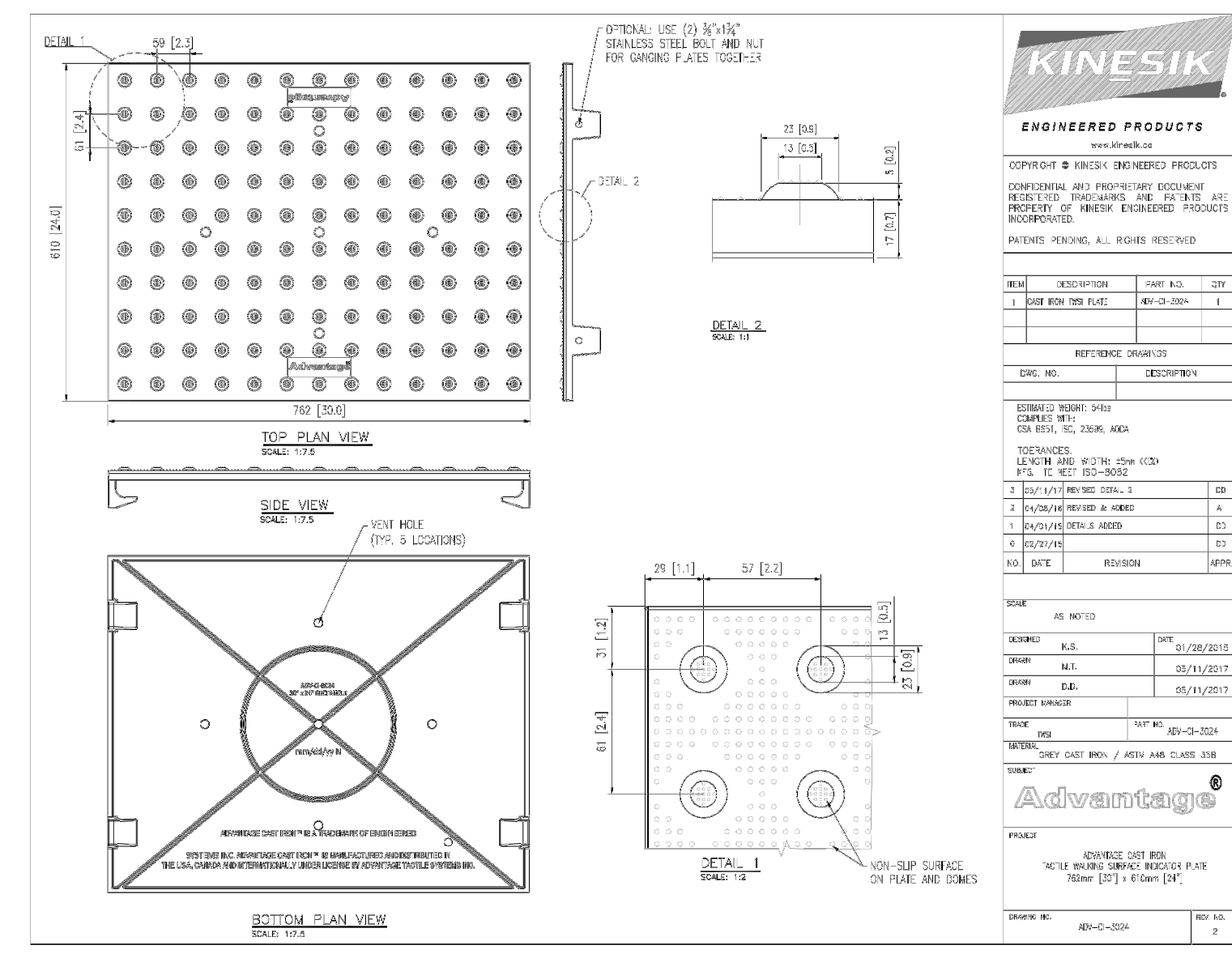


5 SIGN POST AT CIP CONCRETE PAVING
 1: 20



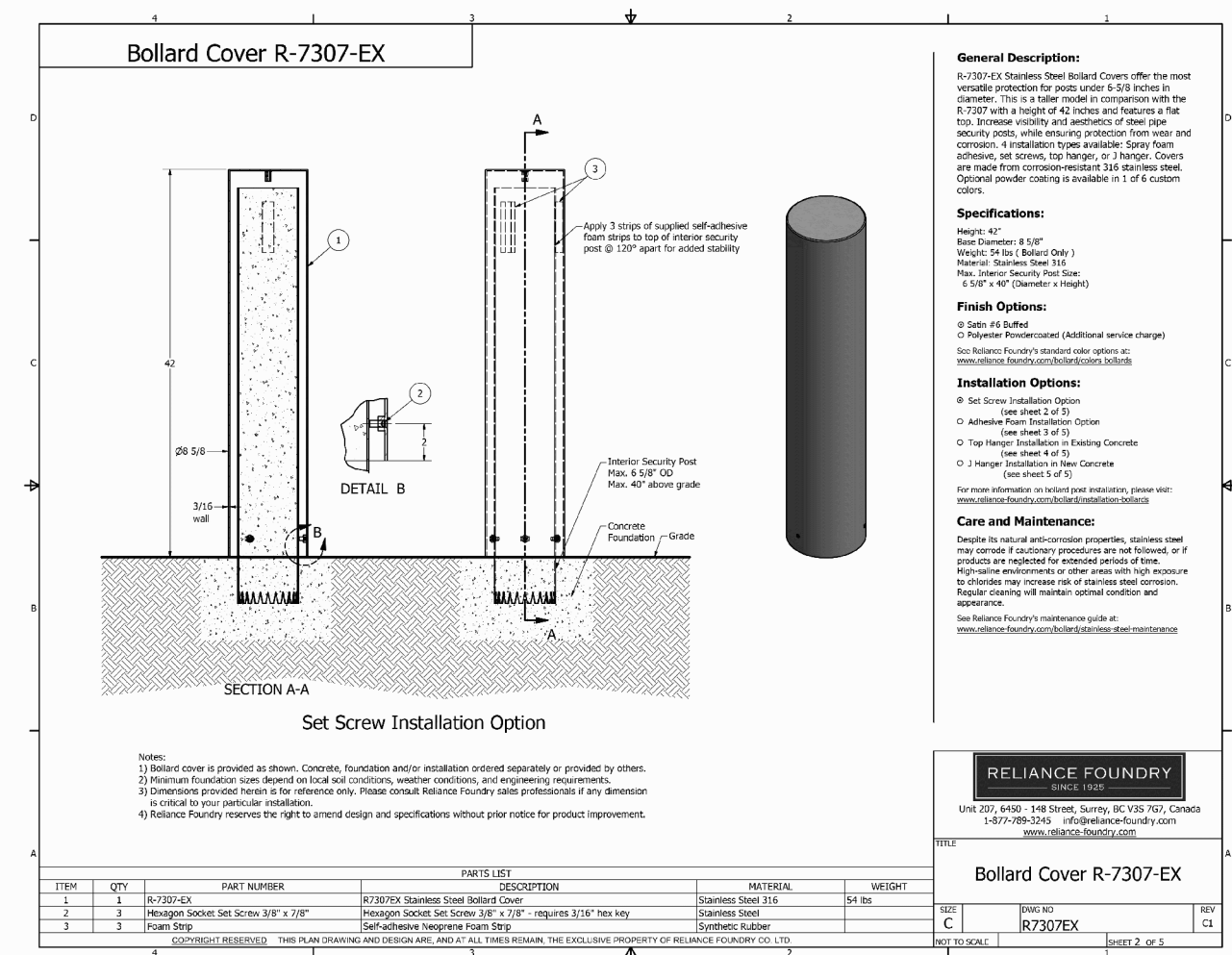
4 GRAPHIC EXAMPLES OF SIGNS
 N.T.S.

NOTES:
 1. TACTILE PLATE
 - MANUFACTURER: KINESIK
 - MODEL: 'ADVANTAGE CAST IRON'
 - COLOUR: DARK GRAY
 2. TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 3. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS WITH LICENSED ENGINEER'S STAMP FOR REVIEW AND APPROVAL.



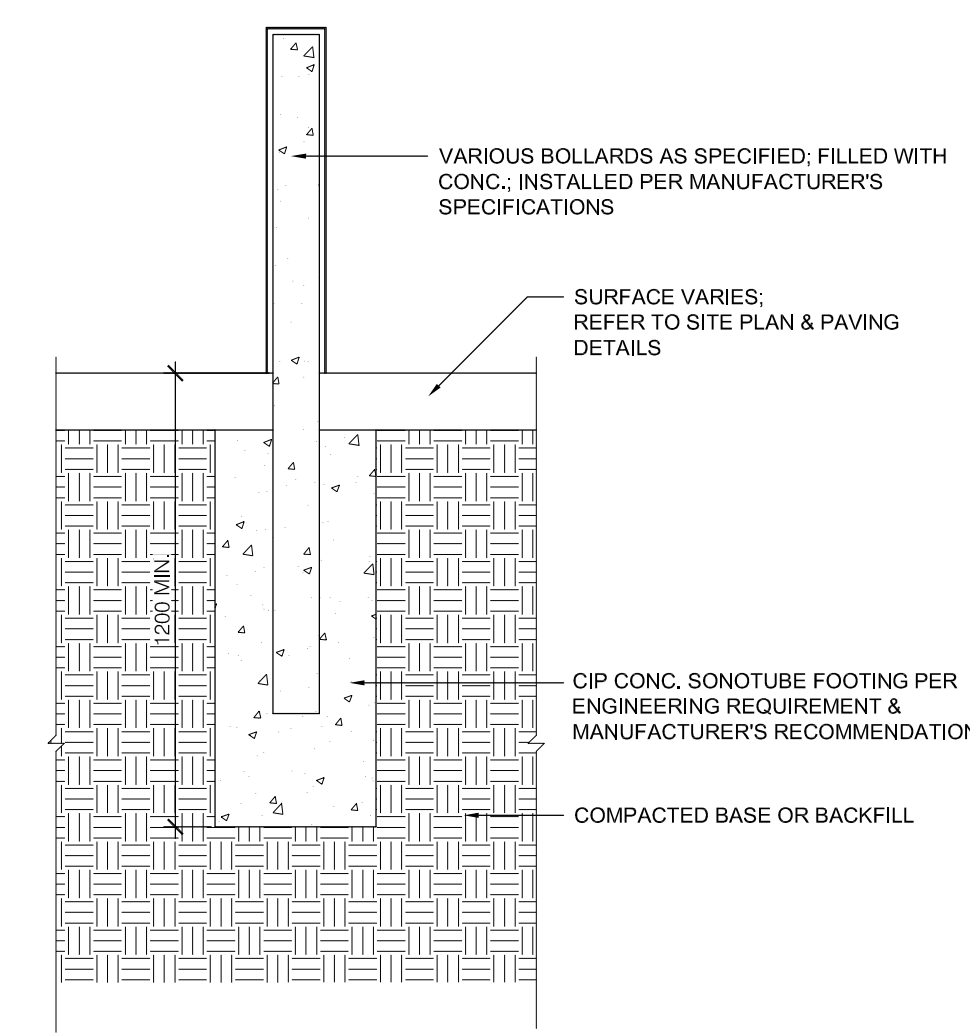
3 TACTILE PLATE
 N.T.S.

NOTES:
 1. BOLLARD
 - MANUFACTURER: RELIANCE FOUNDRY
 - MODEL: 'R-7307-EX'
 - FINISH: ANODIZED SILVER
 - MOUNTING: EMBEDDED, FILLED WITH CONC.
 - INSTALLATION: SET SCREW
 - ADD REFLECTIVE STRIP; COLOUR TO BE WHITE
 2. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS WITH LICENSED ENGINEER'S STAMP FOR REVIEW AND APPROVAL.



2 BOLLARD
 N.T.S.

NOTES:
 1. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS WITH LICENSED ENGINEER'S STAMP FOR REVIEW AND APPROVAL.
 2. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS WITH LICENSED ENGINEER'S STAMP FOR REVIEW AND APPROVAL.



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NORTH ARROW

SEAL

PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**SITE PLAN
 DETAILS 2**

SCALE
AS NOTED

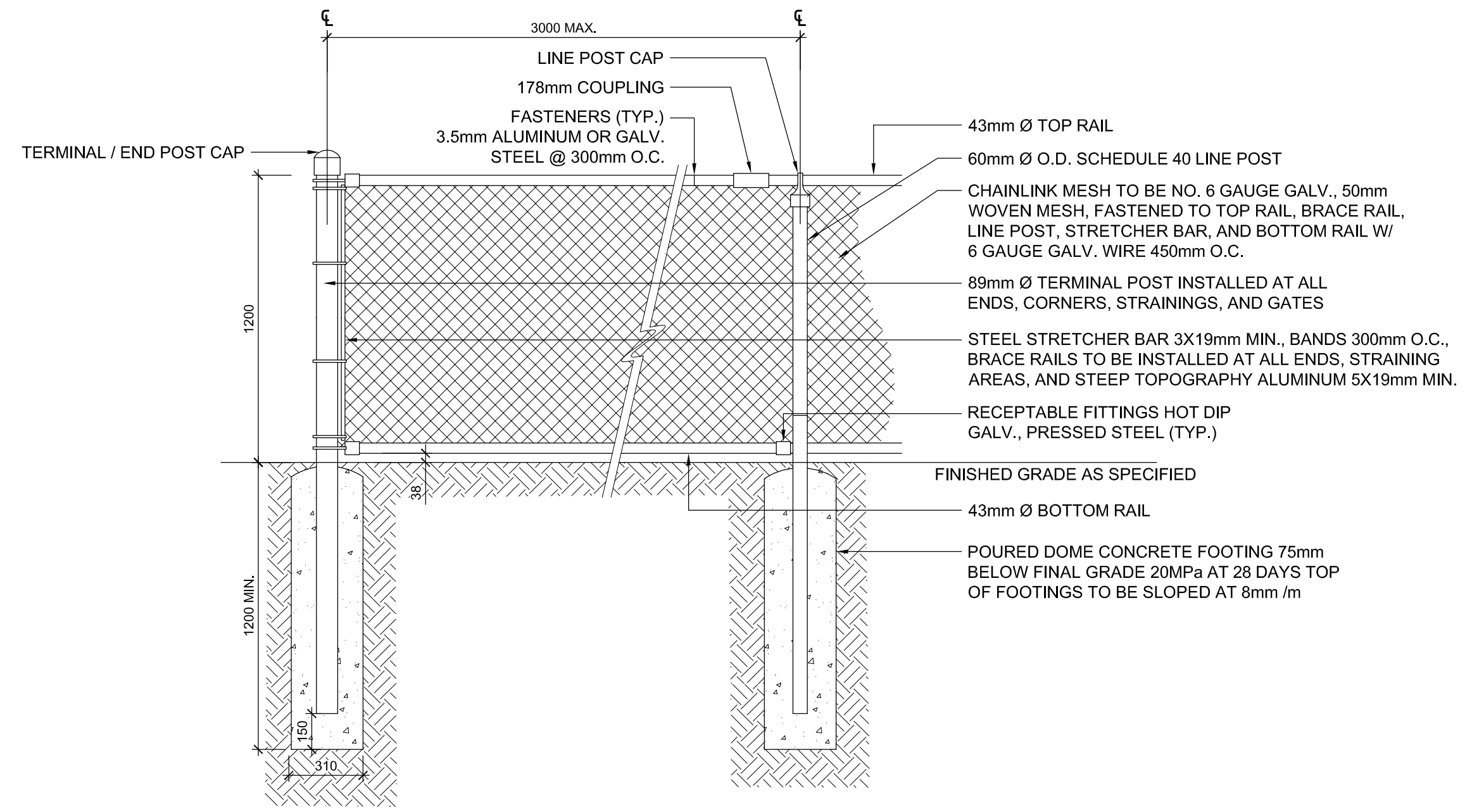
DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER

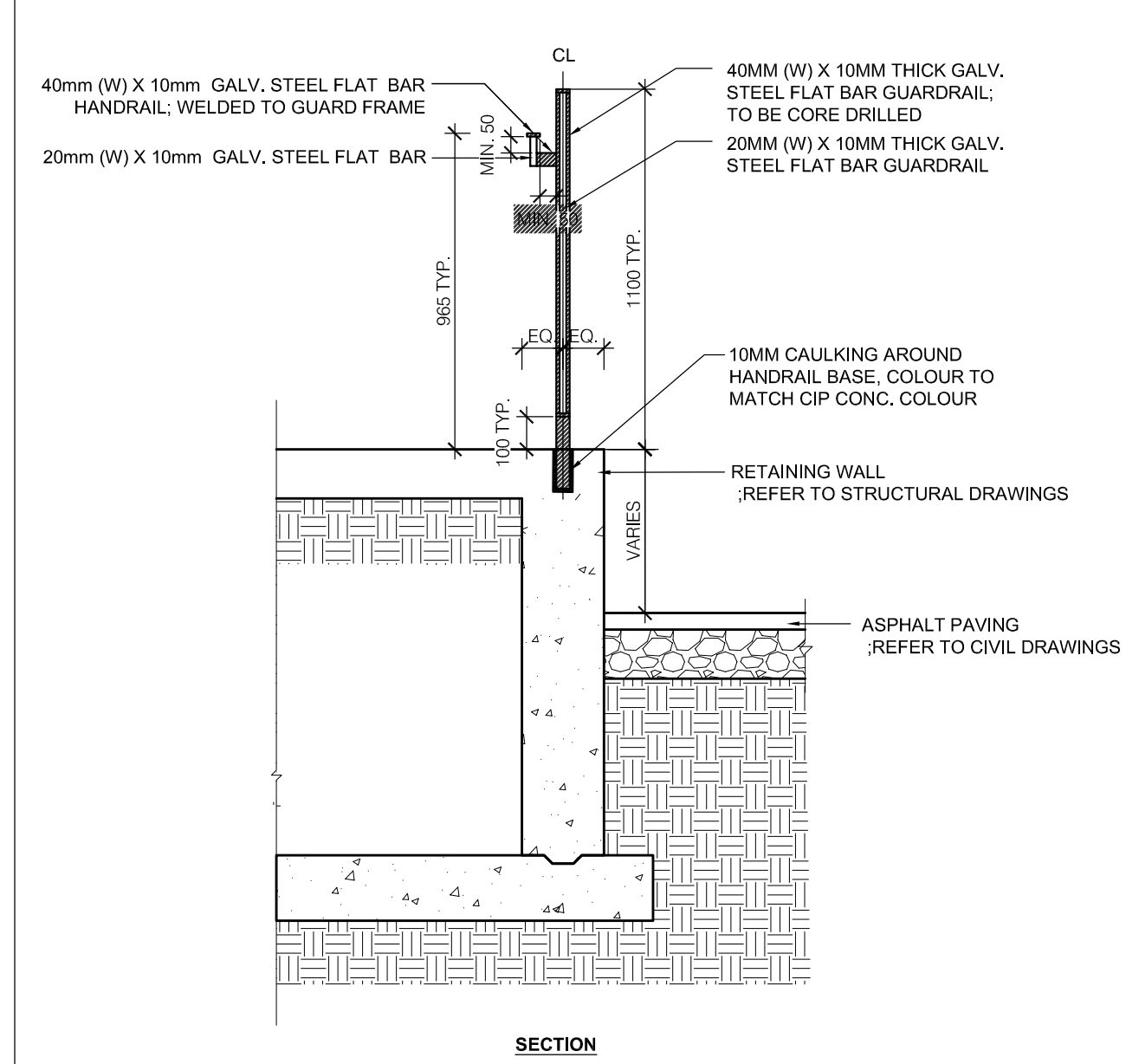
A006

NOTES:
 1. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.
 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
 3. ALL POSTS AND RAILS SHALL BE GALVANIZED STEEL PIPE 'STANDARD WEIGHT', AND CONFORMING TO CURRENT SPECIFICATIONS DOE HOT DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS PIPE FOR ORDINARY USES.
 4. ALL FENCE COMPONENTS TO BE OF A SUITABLE ALUMINUM ALLOY OR OF A STEEL DUCTILE IRON.
 5. LINE POSTS SHALL BE SET AT 3.0m CENTRES.
 6. BOTTOM RAIL AND FINISHED GRADE 35-75mm CLEARANCE MAX.

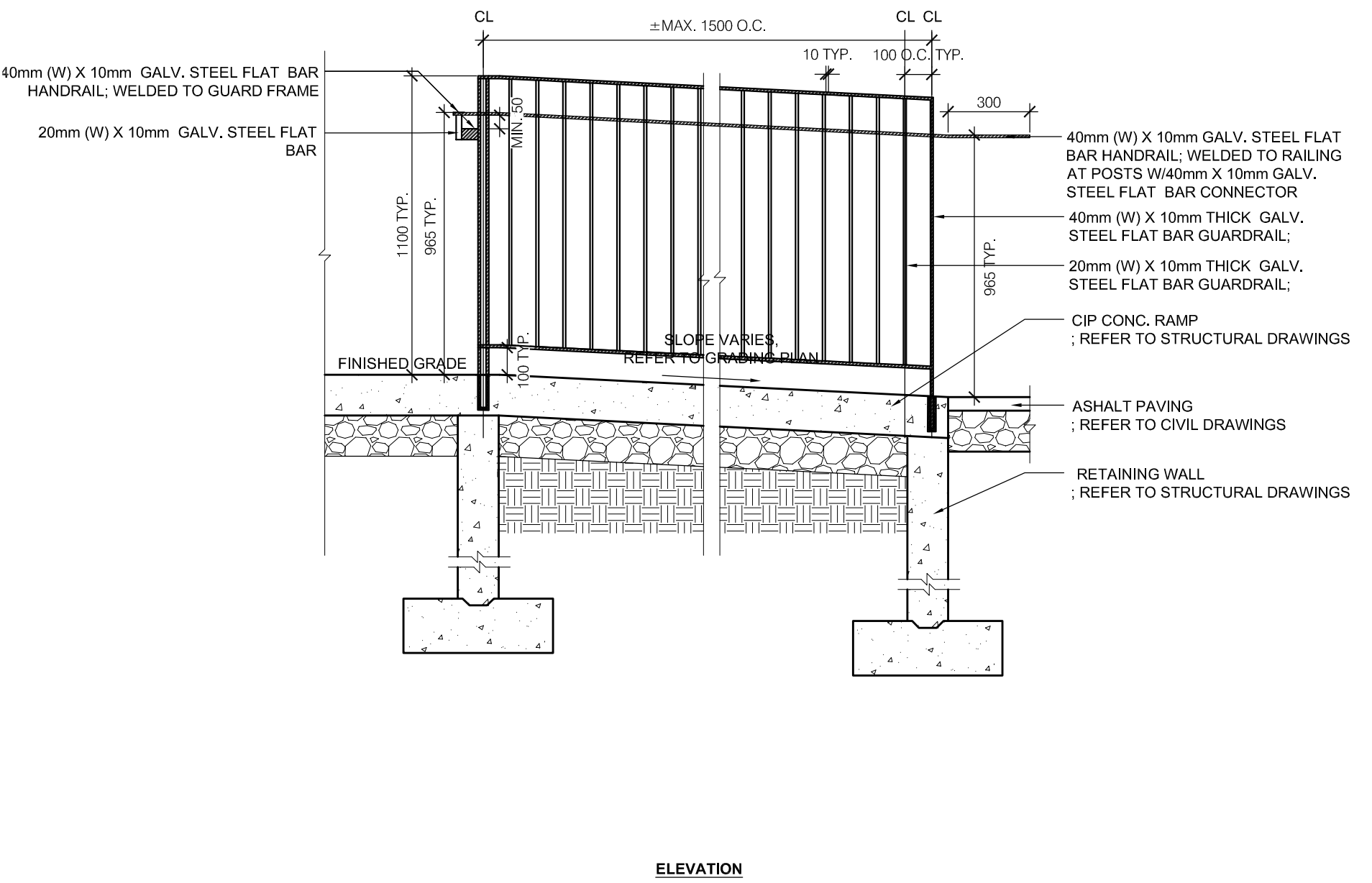


3 CHAIN LINK FENCE
1:20

NOTES:
 1. CONTRACTOR TO VERIFY DIMENSIONS ON SITE AND SUBMIT DETAILED SHOP DRAWINGS WITH LICENSED ENGINEER'S STAMP FOR REVIEW AND APPROVAL BEFORE FABRICATION.
 2. ALL FASTENERS TO BE GALVANIZED AND NON-CORROSIVE...
 3. WELD ALL JOINTS TO CREATE A RIGID SECURE STRUCTURE.
 4. ALL WELDS GROUND SMOOTH AND NO WELDS OR SEAMS TO SHOW.
 5. REFER TO CIVIL'S GRADING PLAN TO VERIFY GRADING.
 6. CIP CONC. FOOTING, RAMP AND RETAINING WALL REFER TO STRUCTURAL DRAWINGS.
 7. REFER TO SITE PLAN FOR EXTENT OF GUARDRAIL.

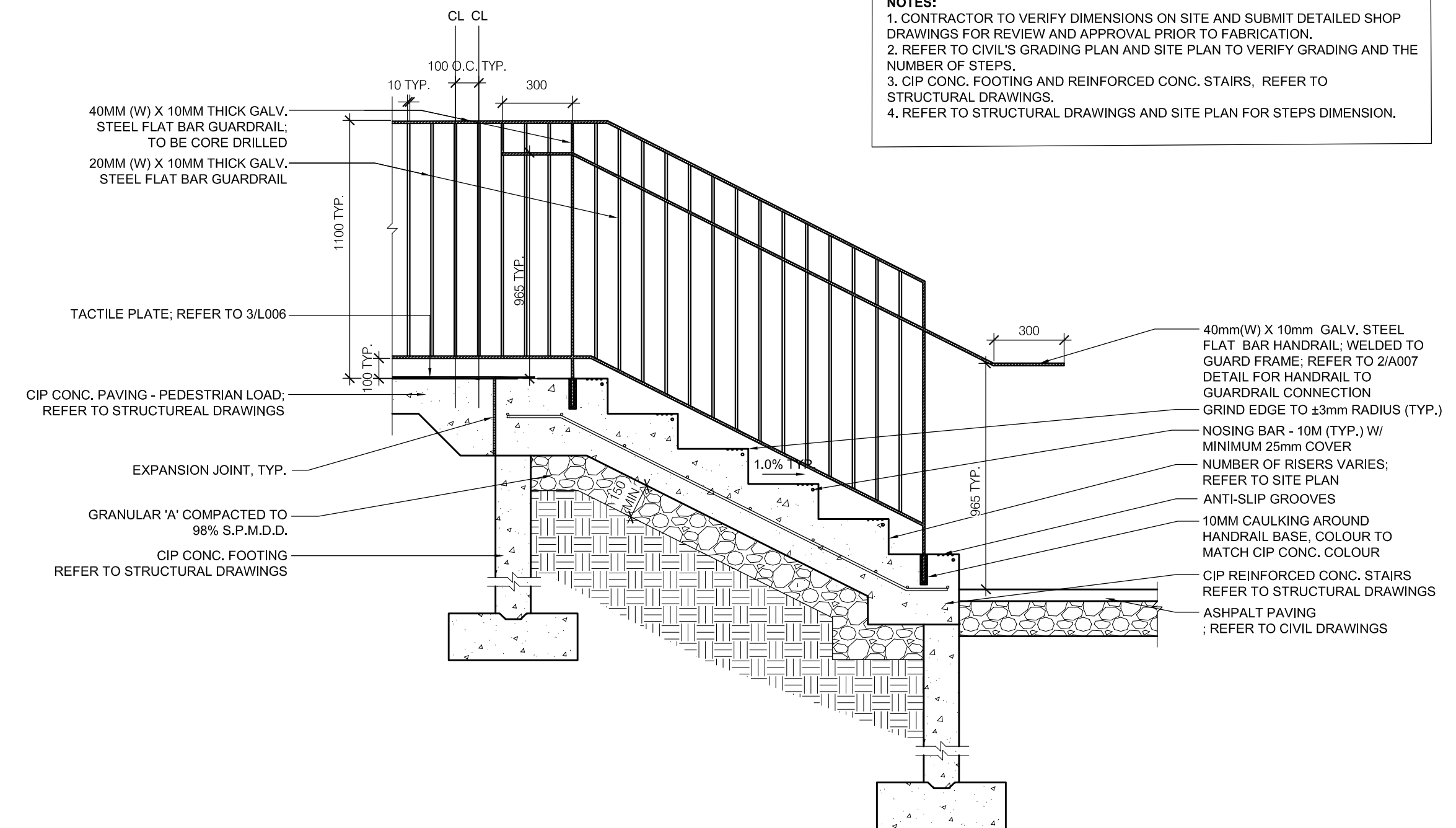


2 CIP CONCRETE RAMP/ GUARDRAIL/ HANDRAIL
1:10



ELEVATION

NOTES:
 1. CONTRACTOR TO VERIFY DIMENSIONS ON SITE AND SUBMIT DETAILED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 2. REFER TO CIVIL'S GRADING PLAN AND SITE PLAN TO VERIFY GRADING AND THE NUMBER OF STEPS.
 3. CIP CONC. FOOTING AND REINFORCED CONC. STAIRS. REFER TO STRUCTURAL DRAWINGS.
 4. REFER TO STRUCTURAL DRAWINGS AND SITE PLAN FOR STEPS DIMENSION.



1 CIP CONCRETE STEPS/ GUARDRAIL/ HANDRAIL
1:10

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NORTH ARROW

SEAL

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 OF ONTARIO
 REGISTERED ARCHITECT
 5362

PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**SITE PLAN
 DETAILS 3**

SCALE
AS NOTED

DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER

A007

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REVISIONS AND ISSUES

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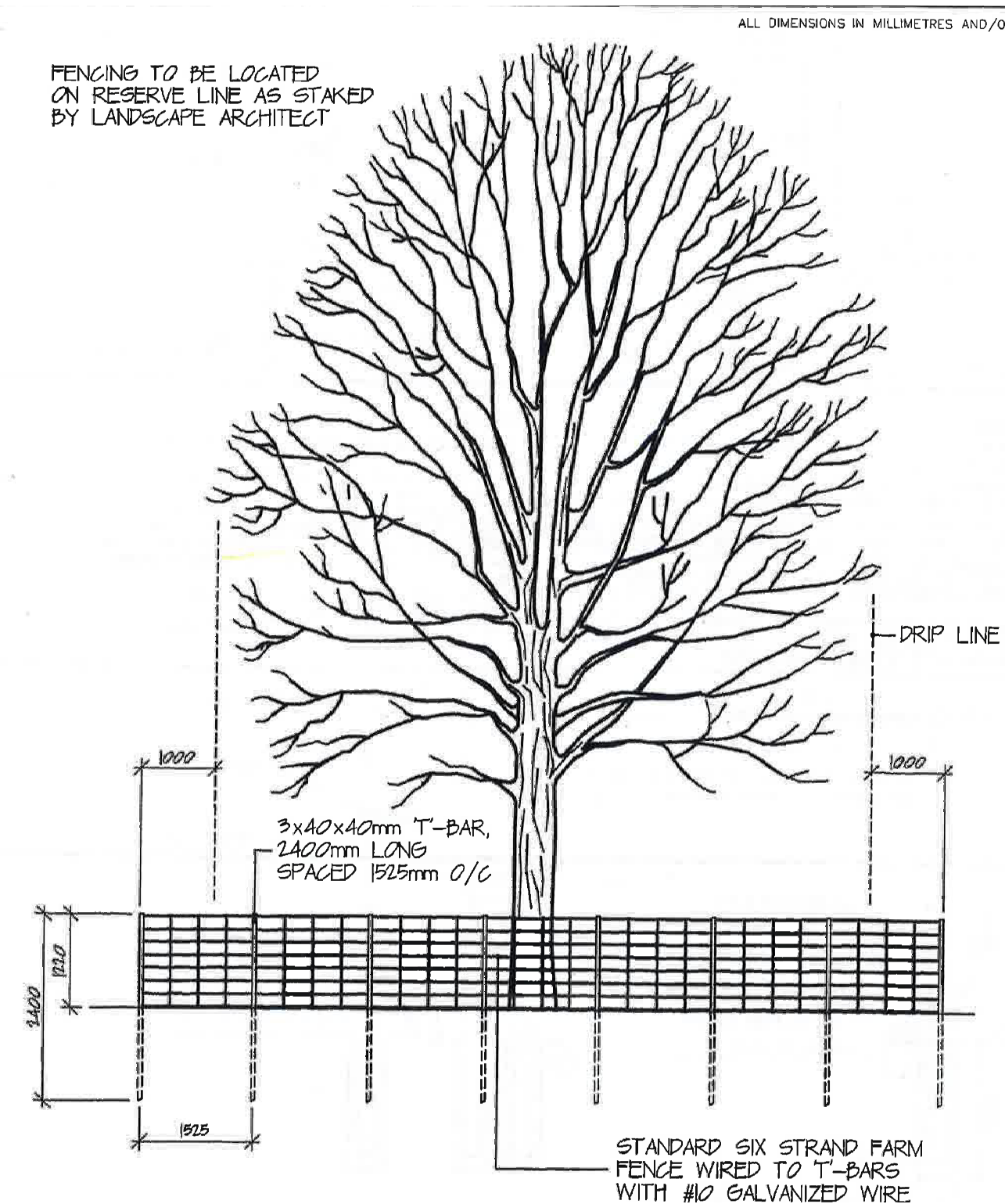
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STRUCTURAL ENGINEERS

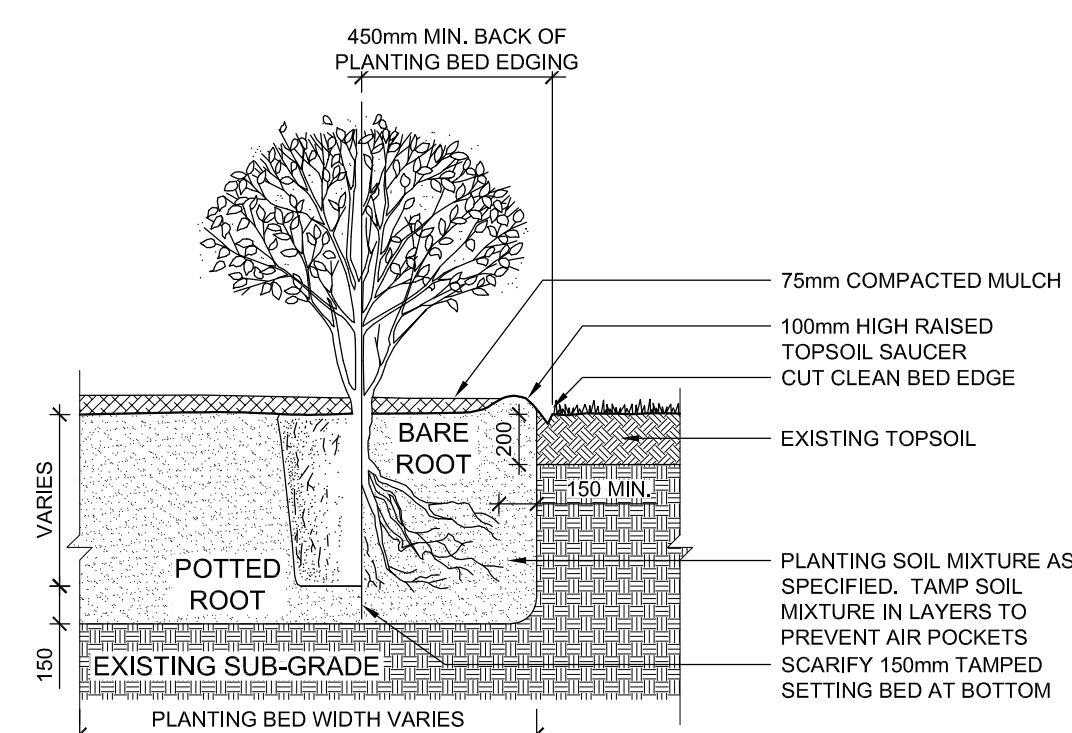
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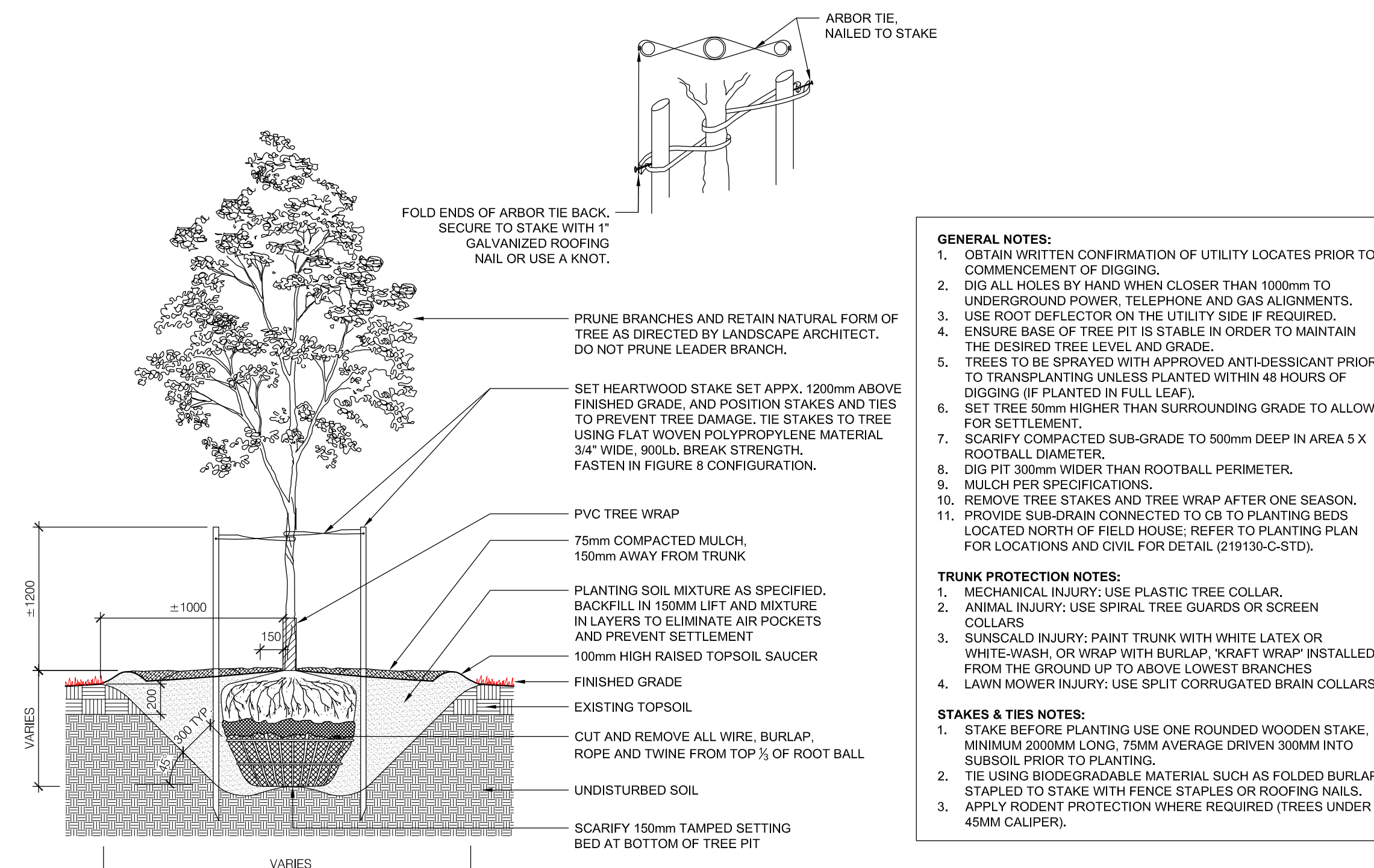


3 TREE PRESERVATION PROTECTION FENCE
N.T.S.



- GENERAL NOTES:**
- OBTAIN WRITTEN CONFIRMATION OF UTILITY LOCATES PRIOR TO COMMENCEMENT OF DIGGING.
 - PREPARATION: EXCAVATE PLANTING BED TO SIZE OUTLINED ON DRAWINGS. MAINTAIN MINIMUM 450mm DEPTH.
 - SET SHRUB 50mm HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
 - ALL ROOT BALLS REMOVED FROM POTS TO BE SCARIFIED PRIOR TO SETTING IN GROUND.
 - PRUNING TO SUIT SPECIES.
 - TRIM AND REMOVE ALL BROKEN, DISEASED, OR WEAK BRANCHES AND TWIGS.
 - TRIM BRANCHES AND TWIGS TO RETAIN NATURAL FORM OF SHRUB. DO NOT PRUNE LEADERS.
 - PLANTING IN GROUPS SHALL BE SET IN EQUAL O.C. SPACING.
 - SPACING PER A004 SITE PLAN.
- FERTILIZER NOTES:**
- APPLY APPROVED WATER SOLUBLE FERTILIZER AT A RATE OF 9kg PER 100m².
 - ENSURE FERTILIZER IS CONTAINED WITHIN SAUCER AND EVENLY RAKED INTO PLANTING SOIL MIXTURE.

2 SHRUB PLANTING
N.T.S.

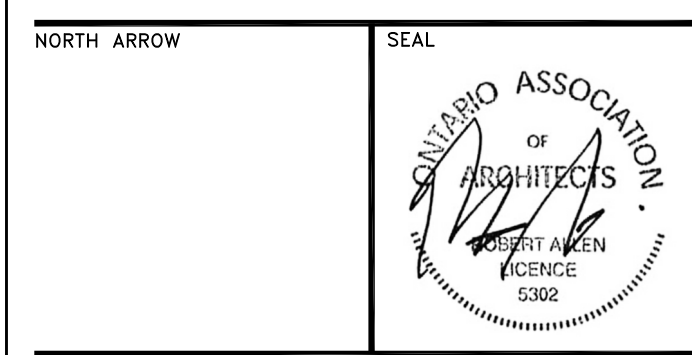


- GENERAL NOTES:**
- OBTAIN WRITTEN CONFIRMATION OF UTILITY LOCATES PRIOR TO COMMENCEMENT OF DIGGING.
 - DIG ALL HOLES BY HAND WHEN CLOSER THAN 1000mm TO UNDERGROUND POWER, TELEPHONE AND GAS ALIGNMENTS.
 - USE ROOT DEFLECTOR ON THE UTILITY SIDE IF REQUIRED.
 - ENSURE BASE OF TREE PIT IS STABLE IN ORDER TO MAINTAIN THE DESIRED TREE LEVEL AND GRADE.
 - TREES TO BE SPRAYED WITH APPROVED ANTI-DESSICANT PRIOR TO TRANSPLANTING UNLESS PLANTED WITHIN 48 HOURS OF DIGGING (IF PLANTED IN FULL LEAF).
 - SET TREE 50mm HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
 - SCARIFY COMPACTED SUB-GRADE TO 500mm DEEP IN AREA 6 X ROOTBALL DIAMETER.
 - DIG PIT 300mm WIDER THAN ROOTBALL PERIMETER.
 - MULCH PER SPECIFICATIONS.
 - REMOVE TREE STAKES AND TREE WRAP AFTER ONE SEASON.
 - PROVIDE SUB-DRAIN CONNECTED TO CB TO PLANTING BEDS LOCATED NORTH OF FIELD HOUSE. REFER TO PLANTING PLAN FOR LOCATIONS AND CIVIL FOR DETAIL (219130C-STD).
- TRUNK PROTECTION NOTES:**
- MECHANICAL INJURY: USE PLASTIC TREE COLLAR.
 - ANIMAL INJURY: USE SPIRAL TREE GUARDS OR SCREEN COLLARS
 - SUNSCALD INJURY: PAINT TRUNK WITH WHITE LATEX OR WHITE-WASH OR WRAP WITH BURLAP. 'KRAFT WRAP' INSTALLED FROM THE GROUND UP TO ABOVE LOWEST BRANCHES
 - LAWN MOWER INJURY: USE SPLIT CORRUGATED BRAIN COLLARS
- STAKES & TIES NOTES:**
- STAKE BEFORE PLANTING USE ONE ROUNDED WOODEN STAKE, MINIMUM 2000MM LONG, 75MM AVERAGE DRIVEN 300MM INTO SUBSOIL PRIOR TO PLANTING.
 - TIE USING BIODEGRADABLE MATERIAL SUCH AS FOLDED BURLAP, STAPLED TO STAKE WITH FENCE STAPLES OR ROOFING NAILS.
 - APPLY RODENT PROTECTION WHERE REQUIRED (TREES UNDER 45MM CALIPER).

1 DECIDUOUS TREE PLANTING
N.T.S.

SAYERS FOOD LIMITED

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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**SITE PLAN
DETAILS 4**

SCALE
AS NOTED
DATE
JULY 15, 2022

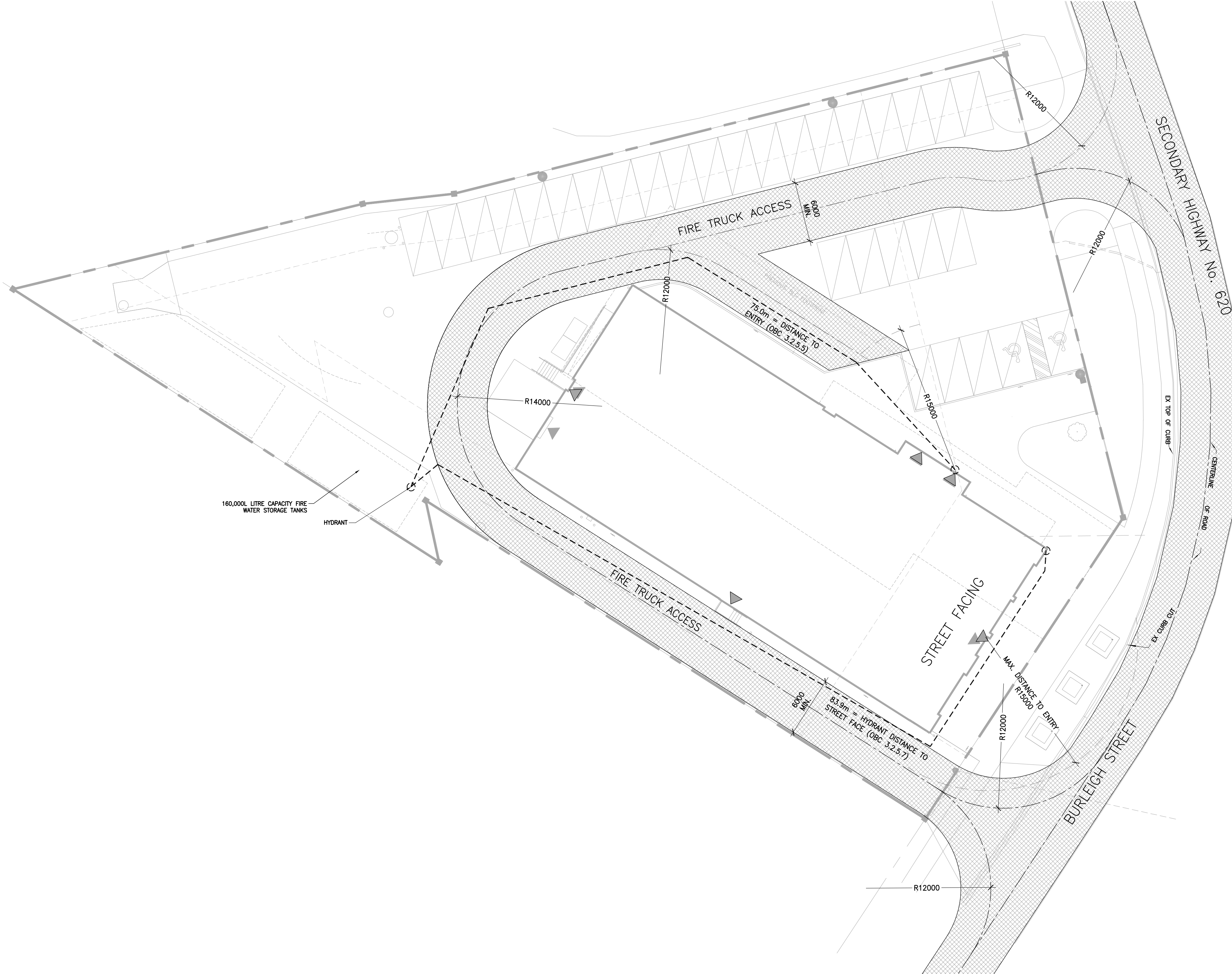
PROJECT NUMBER
2102
DRAWING NUMBER

A008

Name of Practice: MacLennan Jaunkalns Miller Architects
 Address 1: 425 Adelaide Street West, Level 6
 Address 2: Toronto, Ontario
 Contact: Andrew Bramm
 Name of Project: Sayers Foods
 Location/Address: 132 Burleigh Street
 Date: 17-Jan-22 Seal & Signature

3.00 BUILDING CODE VERSION	O.Reg. 332/12	LAST AMENDMENT	O.Reg. 191/14					
3.01 PROJECT TYPE	New Construction			[A] 1.1.2				
3.02 MAJOR OCCUPANCY CLASSIFICATION	OCCUPANCY	USE		3.1.2.1.(1)				
	E	Mercantile	Grocery Store					
3.03 SUPERIMPOSED MAJOR OCCUPANCIES	No			3.2.2.7				
3.04 BUILDING AREA (m ²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 1.4.1.2.				
	Building Area	0.00	1078.00	1,078.0				
	TOTAL	-	1,078.0	1,078.0				
3.05 GROSS AREA (m ²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 1.4.1.2.				
	Ground Level	0.00	1078.00	1,078.0				
	Level 2	0.00	196.00	196.0				
	TOTAL	-	1,274.0	1,274.0				
3.06 MEZZANINE AREA (m ²)	DESCRIPTION	EXISTING	NEW	TOTAL 3.2.1.1.				
	TOTAL	-	-	-				
3.07 BUILDING HEIGHT	2	STOREYS ABOVE GRADE	10.00 (m) ABOVE GRADE	[A] 1.4.1.2. & 3.2.1.1.				
	0	STOREYS BELOW GRADE						
3.08 HIGH BUILDING	No			3.2.6				
3.09 NUMBER OF STREETS/FIREFIGHTER ACCESS	1 STREET(S)			3.2.2.10. & 3.2.5				
3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)	3.2.2.59.	GROUP E, UP TO 3 STOREYS - FACING 1 STREETS		3.2.2.20-83				
	-	GROUP D ACCESSORY (L2)						
3.11 SPRINKLER SYSTEM	Not Required	PROVIDED: None		3.2.1.5. & 3.2.2.17.				
3.12 STANDPIPE SYSTEM	Not Required			3.2.9				
3.13 FIRE ALARM SYSTEM	Not Required	TYPE PROVIDED N/A		3.2.4				
3.14 WATER SERVICE SUPPLY IS ADEQUATE	No	160,000L Water Storage Tanks Provided on Site						
3.15 CONSTRUCTION TYPE	RESTRICTIONS	Combustible Permitted		3.2.2.20-83.				
	ACTUAL	Combination	HEAVY TIMBER CONSTRUCTION	NO				
				3.2.1.4				
3.16 IMPORTANCE CATEGORY	Normal			4.1.2.1.(9), 14.1.2.1.B				
3.17 SEISMIC HAZARD INDEX (I _s & I _{s2})	0.187	Seismic Design Not Required for Table 4.1.8.16. Items 6 to 21		4.1.8.16.(1)				
3.18 OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON	OCCUPANT LOAD (PERSONS)				
	L1 - OPEN SHOPPING AREA (676m ² .7)	MERCANTILE - FIRST STOREY	m ² per person	156				
	L1 - BAKE & DELI (106m ² .3)	KITCHENS	m ² per person	12				
	L1 - PRODUCE PREP (18m ² .2)	KITCHENS	m ² per person	2				
	L1 - MEAT PREP (159.3)	KITCHENS	m ² per person	2				
	L1 - SERVICE (75m ² .46)	STORAGE	m ² per person	2				
	L2 - OFFICE	OFFICES	Design of space	4				
	L2 - STORAGE (31m ² .46)	STORAGE	m ² per person	1				
	L2 - PRIVATE OFFICE	OFFICES	Design of space	3				
	L2 - STAFF (EMPLOYEES FROM OTHER AREAS)	LOUNGE	m ² per person	-				
	TOTAL			182				
3.19 BARRIER-FREE DESIGN	Yes			3.8				
3.20 HAZARDOUS SUBSTANCES	No			3.3.1.2. & 3.3.1.19				
3.21 REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	RATING (H)	SUPPORTING ASSEMBLY (H)	NONCOMBUSTIBLE IN LIEU OF RATING? 3.2.1.4.				
	FLOORS OVER BSMT	N/A	N/A	N/A				
	FLOORS	45 min	45 min	NO				
	MEZZANINE	N/A	N/A	N/A				
	ROOF	45 min	45 min	YES				
3.22 SPATIAL SEPARATION	WALL	EBF AREA (m ²)	L.D. (m)	L/H OR H/L	REQUIRED FRR (H)	CONSTRUCTION TYPE	CLADDING TYPE	3.2.3
	NORTH-WEST A	178.0	18.50	2.30	1.00	Combustible Permitted	Combustible Permitted	
	NORTH-WEST B	19.0	18.50	1.50	-	Combustible Permitted	Combustible Permitted	
	NORTH-WEST C	6.0	18.50	1.70	-	Combustible Permitted	Combustible Permitted	
	NORTH-EAST A	396.0	19.50	4.50	1.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-EAST A	179.0	15.90	2.25	-	Combustible Permitted	Combustible Permitted	
	SOUTH-EAST B	36.0	15.90	1.80	-	Combustible Permitted	Combustible Permitted	
	SOUTH-WEST A	246.0	7.50	4.50	2.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-WEST B	96.0	7.50	4.00	2.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-WEST C	28.0	7.50	2.50	1.00	Combustible Permitted	Combustible Permitted	
3.23 PLUMBING FIXTURE REQUIREMENTS	RATIO:	MALE FEMALE = 50/50 EXCEPT AS NOTED OTHERWISE						3.7.4
	FLOOR LEVEL/AREA	OCCUPANT LOAD	OBC SENTENCE	FIXTURES REQUIRED	FIXTURES PROVIDED			
	L1 - PUBLIC (P) + STAFF (S) MERCANT	174	3.7.4.8 (2A)	1M1F	1 Un.WC + 1 WC			
	L2 - GROUP D STAFF	8	3.7.4.7 (2)	1 WC	1 WC			
3.24 ENERGY EFFICIENCY	COMPLIANCE PATH:	PRESCRIPTIVE - ANSI/ASHRAES 90.1						
	CLIMATIC ZONE:	6 - (BANCROFT)						
3.25 NOTES	See 3.4.4.1 (1) Fire-Resistance Rating of Exit Separations (45 min.) See 3.2.2.13 (1) Fire separation of Occupancy on Roof ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C							

3.19 BARRIER-FREE DESIGN	Yes			3.8				
3.20 HAZARDOUS SUBSTANCES	No			3.3.1.2. & 3.3.1.19				
3.21 REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	RATING (H)	SUPPORTING ASSEMBLY (H)	NONCOMBUSTIBLE IN LIEU OF RATING? 3.2.1.4.				
	FLOORS OVER BSMT	N/A	N/A	N/A				
	FLOORS	45 min	45 min	NO				
	MEZZANINE	N/A	N/A	N/A				
	ROOF	45 min	45 min	YES				
3.22 SPATIAL SEPARATION	WALL	EBF AREA (m ²)	L.D. (m)	L/H OR H/L	REQUIRED FRR (H)	CONSTRUCTION TYPE	CLADDING TYPE	3.2.3
	NORTH-WEST A	178.0	18.50	2.30	1.00	Combustible Permitted	Combustible Permitted	
	NORTH-WEST B	19.0	18.50	1.50	-	Combustible Permitted	Combustible Permitted	
	NORTH-WEST C	6.0	18.50	1.70	-	Combustible Permitted	Combustible Permitted	
	NORTH-EAST A	396.0	19.50	4.50	1.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-EAST A	179.0	15.90	2.25	-	Combustible Permitted	Combustible Permitted	
	SOUTH-EAST B	36.0	15.90	1.80	-	Combustible Permitted	Combustible Permitted	
	SOUTH-WEST A	246.0	7.50	4.50	2.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-WEST B	96.0	7.50	4.00	2.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-WEST C	28.0	7.50	2.50	1.00	Combustible Permitted	Combustible Permitted	
3.23 PLUMBING FIXTURE REQUIREMENTS	RATIO:	MALE FEMALE = 50/50 EXCEPT AS NOTED OTHERWISE						3.7.4
	FLOOR LEVEL/AREA	OCCUPANT LOAD	OBC SENTENCE	FIXTURES REQUIRED	FIXTURES PROVIDED			
	L1 - PUBLIC (P) + STAFF (S) MERCANT	174	3.7.4.8 (2A)	1M1F	1 Un.WC + 1 WC			
	L2 - GROUP D STAFF	8	3.7.4.7 (2)	1 WC	1 WC			
3.24 ENERGY EFFICIENCY	COMPLIANCE PATH:	PRESCRIPTIVE - ANSI/ASHRAES 90.1						
	CLIMATIC ZONE:	6 - (BANCROFT)						
3.25 NOTES	See 3.4.4.1 (1) Fire-Resistance Rating of Exit Separations (45 min.) See 3.2.2.13 (1) Fire separation of Occupancy on Roof ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C							



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 macLennan Jaunkalns miller architects
 425 Adelaide Street West Level 6
 Toronto Ontario M5V 3C1
 416 593 4794
 www.mjmaarchitects.com

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 CIVIL ENGINEERS
 229 BROADWAY, UNIT 1
 ORANGEVILLE, ONTARIO, L9W 1K4
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 TORONTO, ONTARIO, M5V 2H2
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 TEL 416 487 8151

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 E. 705.856.4531
 e: sayers@apsley.ca

PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

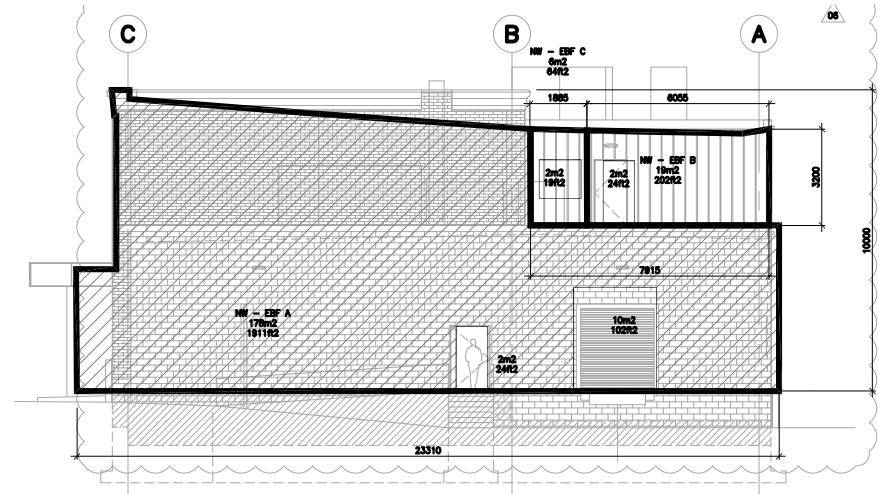
DRAWING TITLE
 OBC MATRIX

SCALE
 AS SHOWN

DATE
 JULY 15, 2022

PROJECT NUMBER
 2102

DRAWING NUMBER
 A010



NORTH-WEST FACE A

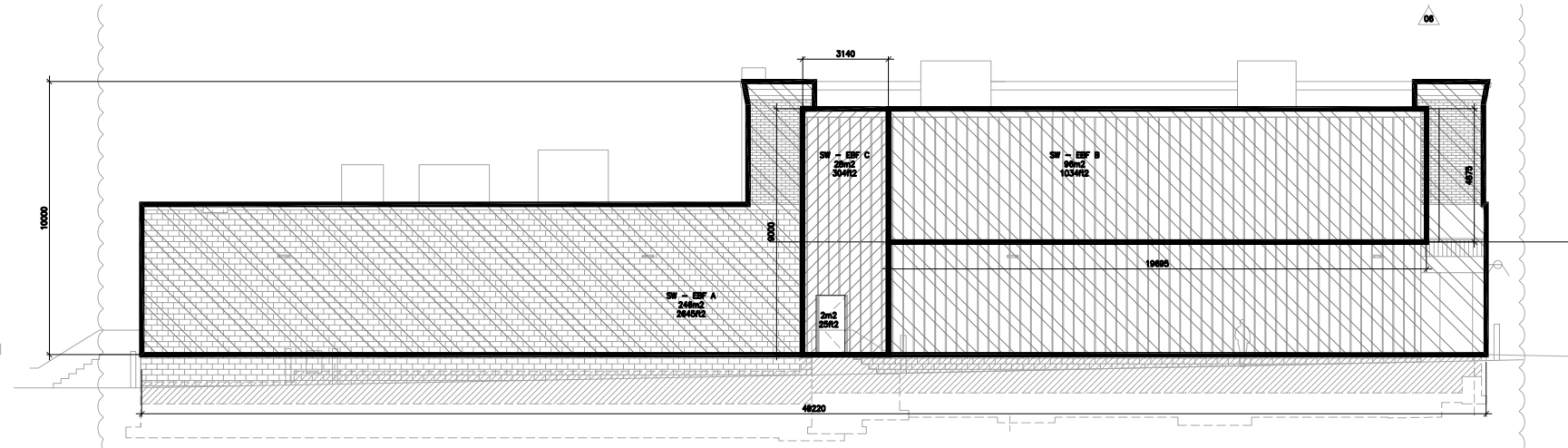
178m² = EXPOSED BUILDING FACE
 18.5m = LIMITING DISTANCE
 2.3 = L/H
 55% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 6.7% = ACTUAL UNPROTECT. OPENING
 1HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)

NORTH-WEST FACE B

19m² = EXPOSED BUILDING FACE
 18.5m = LIMITING DISTANCE
 1.9 = L/H
 100% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 10.5% = ACTUAL UNPROTECT. OPENING
 0 HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)

NORTH-WEST FACE C

6m² = EXPOSED BUILDING FACE
 18.5m = LIMITING DISTANCE
 1.7 = L/H
 100% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 33% = ACTUAL UNPROTECT. OPENING
 0 HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)



SOUTH-WEST FACE A

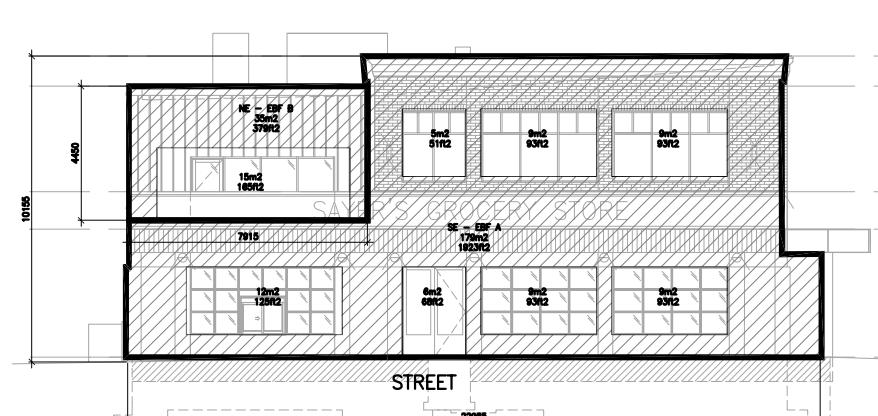
246m² = EXPOSED BUILDING FACE
 7.5m = LIMITING DISTANCE
 4.9 = L/H
 12% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 0% = ACTUAL UNPROTECT. OPENING
 2HR = REQ. FRR (H)
 NON/C = CONSTRUCTION TYPE
 NON = CLADDING TYPE

SOUTH-WEST FACE B

96m² = EXPOSED BUILDING FACE
 7.5m = LIMITING DISTANCE
 4.0 = L/H
 22% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 0% = ACTUAL UNPROTECT. OPENING
 2HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON = REQ. CLADDING TYPE (3.2.3.7)

SOUTH-WEST FACE C

28m² = EXPOSED BUILDING FACE
 7.5m = LIMITING DISTANCE
 2.9 = L/H
 58% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 7.1% = ACTUAL UNPROTECT. OPENING
 1HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)

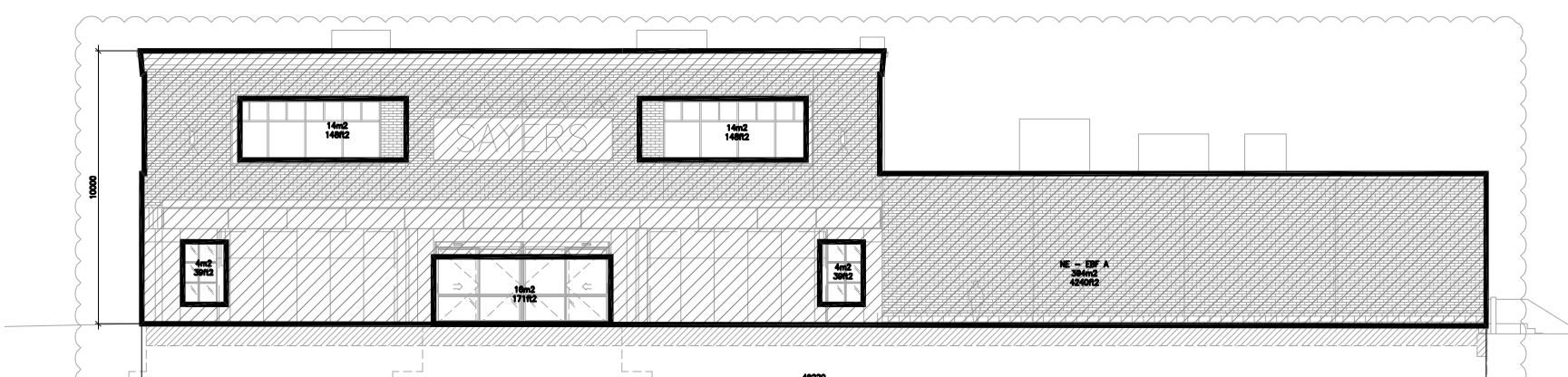


SOUTH-EAST FACE A

179m² = EXPOSED BUILDING FACE
 15.6m = LIMITING DISTANCE
 2.26 = L/H
 100% = MAX. UNPROTECT. OPENING (*3.2.3.1.0)
 33% = ACTUAL UNPROTECT. OPENING
 0HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)

SOUTH-EAST FACE B

35m² = EXPOSED BUILDING FACE
 15.6m = LIMITING DISTANCE
 1.8 = L/H
 100% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 43% = ACTUAL UNPROTECT. OPENING
 0HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)



NORTH-EAST FACE A

396m² = EXPOSED BUILDING FACE
 19.6m = LIMITING DISTANCE
 4.9 = L/H
 43% = MAX. UNPROTECT. OPENING (3.2.3.1.0)
 13% = ACTUAL UNPROTECT. OPENING
 1HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON = REQ. CLADDING TYPE (3.2.3.7)

FIRE WATER STORAGE TANK SIZE
 (OBC 3.2.5.7 APPENDIX A = $Q=K \times V \times S$):

17 =K (WATER SUPPLY COEFFICIENT)
 7,375 m³ =V (TOTAL BUILDING VOLUME)
 1.27 =S (TOTAL SPATIAL COEFFICIENT)

 159,218L =Q (MIN. SUPPLY OF WATER)
 160,000L =PROPOSED SUPPLY OF WATER

4 STORAGE TANK CALCULATIONS

OBC - ENERGY EFFICIENCY (SB-10)

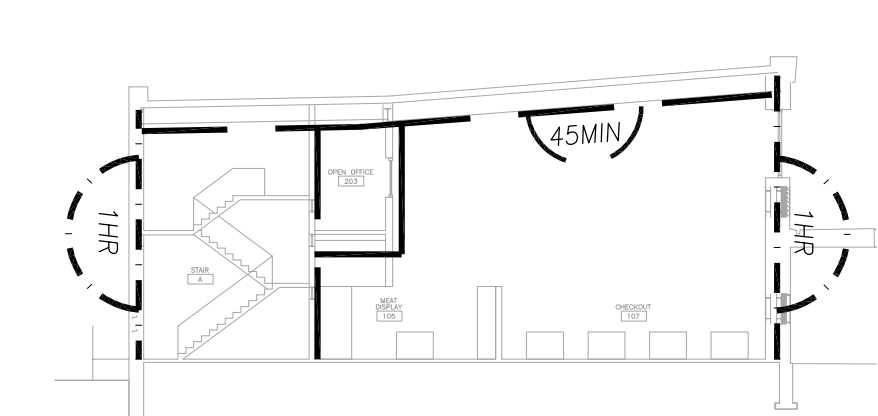
PATH = PRESCRIPTIVE (2013 ANSI/ASHRAE/IES 90.1)
 CLIMATE ZONE = 6 (BANCROFT)
 SLABS = MAINTAIN SLAB/WALL/FOOTING INSULATION PER FIGURE 5-1
 STL CONNECT. = MAX 2% OF EXTERIOR AREA OR THERMAL BREAKS
 BUILDING BASES = MAX. UN-INSULATED = 200mm

BUILDING ENVELOP REQUIREMENTS (CLIMATE ZONE 6, (A,B)(I-P))

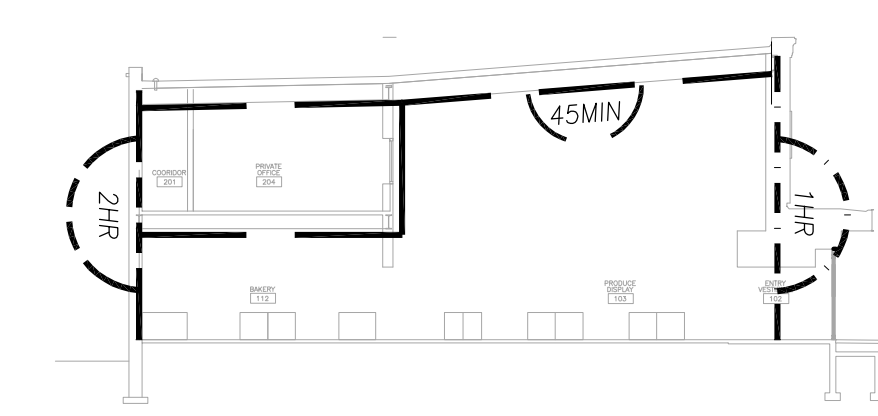
ELEMENT	TYPE	ASSEMBLY	MAX. U-VALUE	INSULATION	MIN. R-VALUE
ROOF	INS. ENTIRELY ABOVE DECK	U-0.029		R-35 ci	
WALLS	STEEL FRAMED	U-0.044		R-13 + R-15 ci	
WALLS	BELOW GRADE	C-0.050		R-20 ci	
SLAB-ON-GRADE	UNHEATED	F-0.459		R-15 for 48 in.	
OPAQUE DOORS	SWINGING	U-0.45			
OPAQUE DOORS	NON-SWINGING	U-0.45			
FENESTRATION	NON-METAL FRAME	U-0.29	(MAX. SHGC 0.4, MIN. VT/SHGC 1.10)		
FENESTRATION	METAL FRAME: FIXED	U-0.38	"		
FENESTRATION	METAL FRAME: OPERABLE	U-0.45	"		
FENESTRATION	METAL FRAME: ENTRANCE DOOR	U-0.69	"		

3 SB-10 REQUIREMENTS

9 SPATIAL SEPERATION/EXPOSURE ANALYSIS 1:250

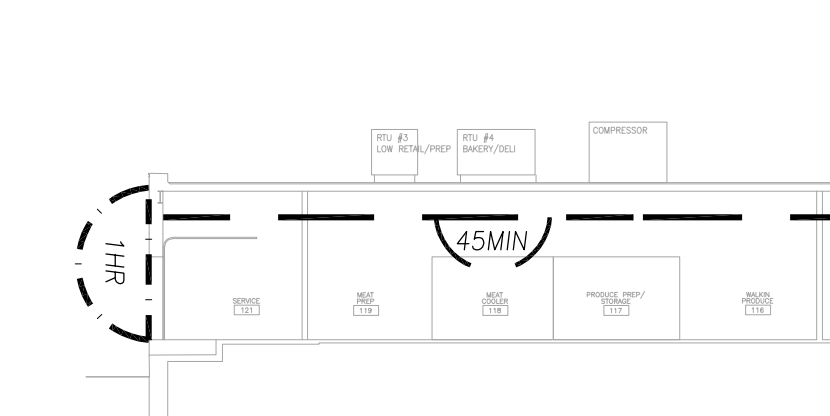


8 BUILDING SECTION - LIFE SAFETY 1:250

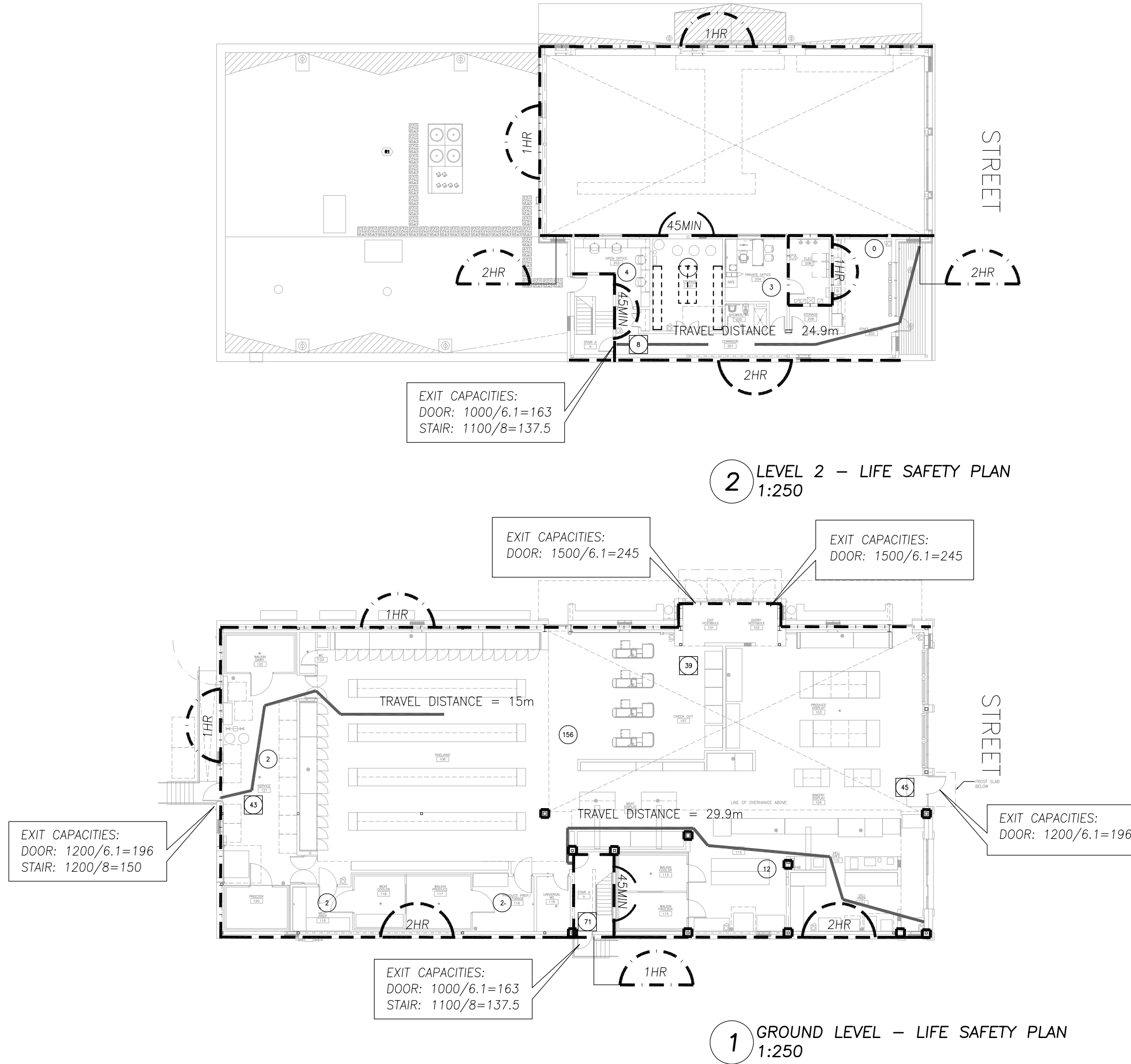


7 BUILDING SECTION - LIFE SAFETY 1:250

6 BUILDING SECTION - LIFE SAFETY 1:250



5 BUILDING SECTION - LIFE SAFETY 1:250



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REVISIONS AND ISSUES

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MJMA
 maclean jaunkalns miller architects
 425 adelade street west level 6
 toronto ontario m5v 3c1
 416 593 4794
 www.mjmaarchitects.com

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 CIVIL ENGINEERS
 229 BROADWAY, UNIT 1
 ORANGEVILLE, ONTARIO, L9W 1K4
 TEL 519 941 0330 FAX 519 941 1830

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 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 E 705.856.4531
 e: sayers@apsley.ca

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE
LIFE SAFETY & CODE

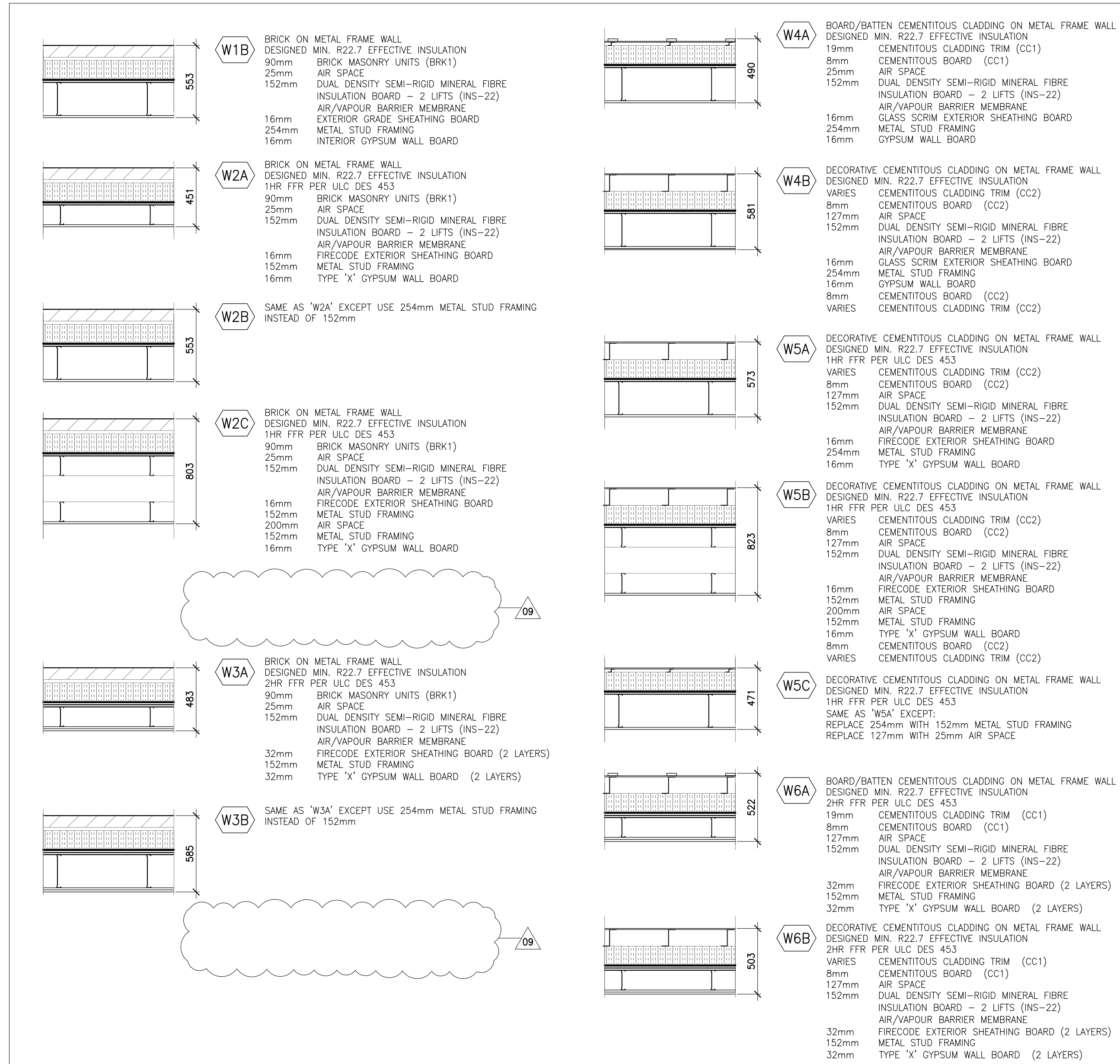
SCALE
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DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER
A011

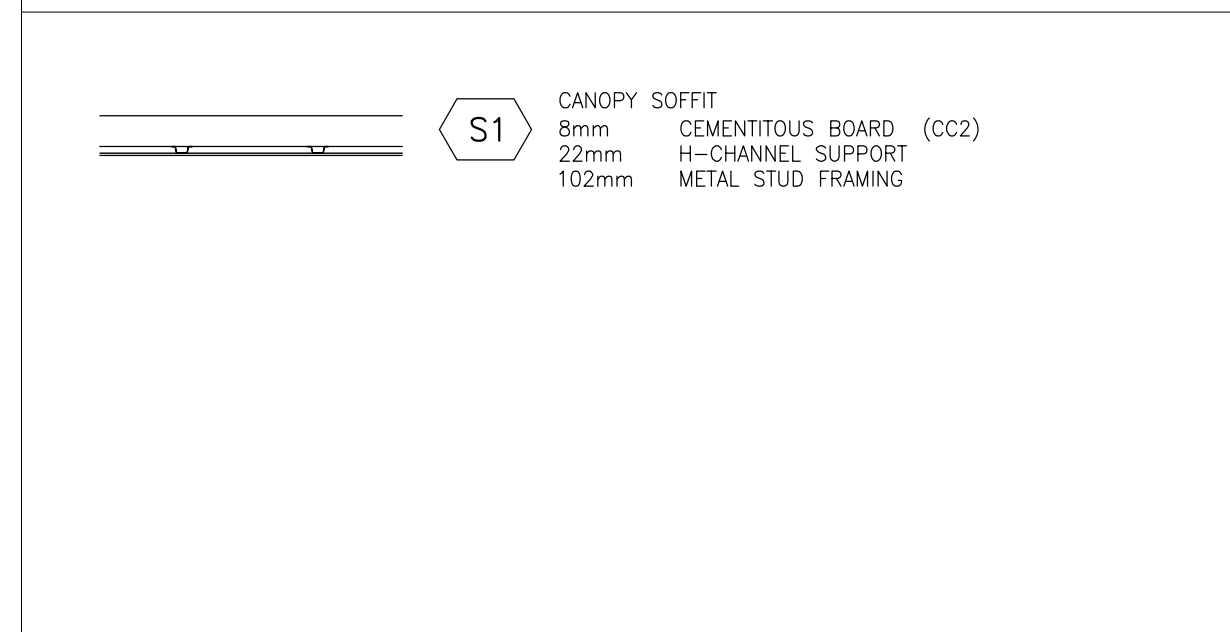
ASSOCIATION OF ARCHITECTS OF ONTARIO
 PROJECT SEAL



GENERAL NOTES - EXTERIOR WALLS

- SEE ELEVATIONS FOR EXTENT OF WALL TYPES
- SEE WALL SECTIONS AND PLAN DETAILS FOR TRANSITIONS BETWEEN WALL TYPES AND ADJACENT ASSEMBLIES
- THE CONTINUITY OF THE AIR BARRIER IS CRITICAL. ENSURE THAT PUNCTURES ARE SEALED, THAT THE AIR BARRIER IS SEALED TO ITEMS THAT PENETRATE IT OR CAUSE DISCONTINUITIES. WHEN IN DOUBT OF THE EXACT LOCATION OF THE AIR/VAPOUR BARRIER IN RELATION TO OTHER MATERIALS, SEEK THE ADVICE OF THE CONSULTANT.
- FOR INTERIOR PARTITIONS REFER TO PARTITION SCHEDULE AND DRAWINGS

EXTERIOR WALL TYPES SCHEDULE

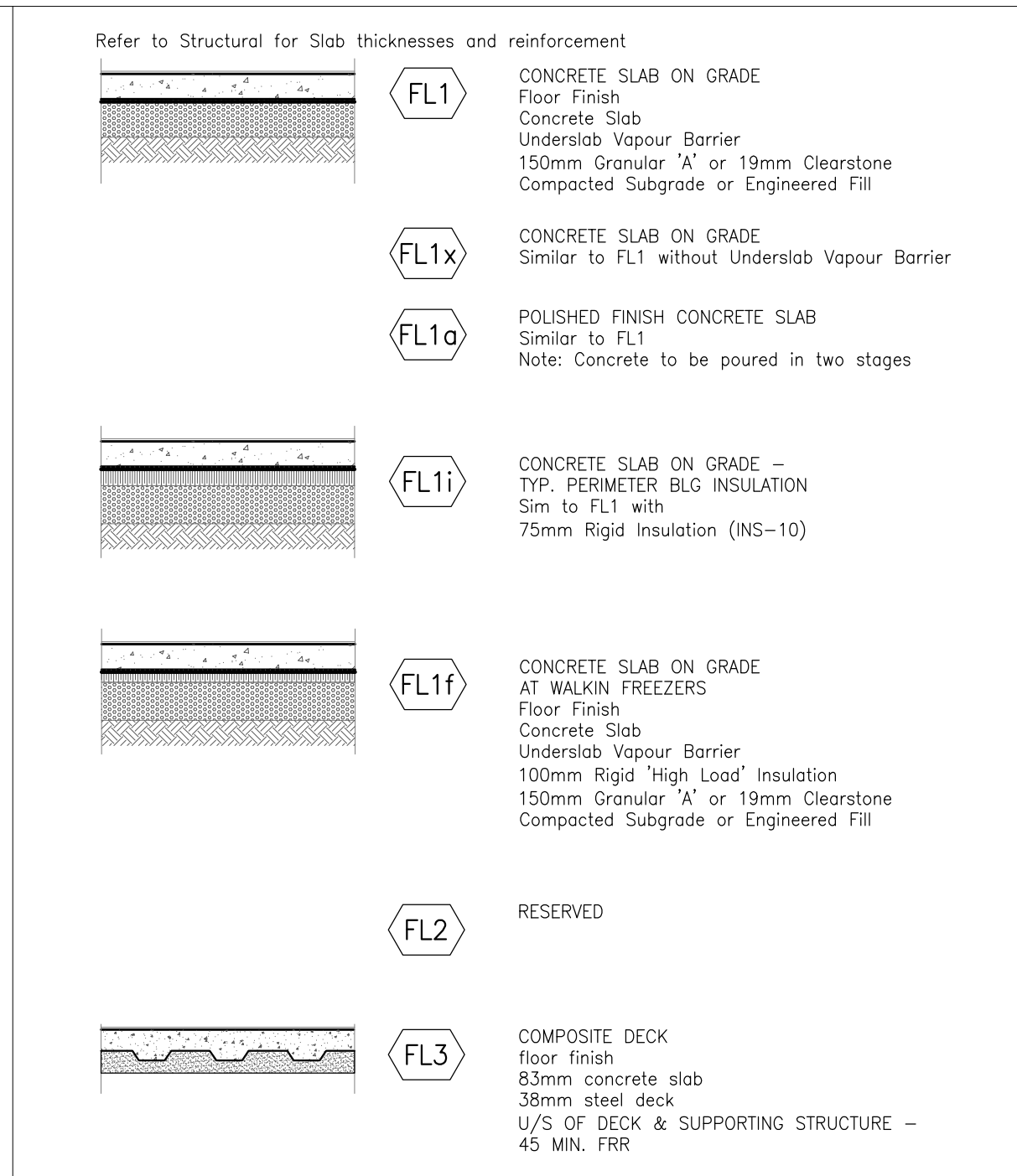


GENERAL NOTES - SOFFIT

- BRACE SUSPENSION FOR EXTERIOR SOFFITS AND ENTRANCE VESTIBULE CEILINGS TO PREVENT UPWARD MOVEMENT DUE TO WIND PRESSURE.

SOFFIT TYPES SCHEDULE

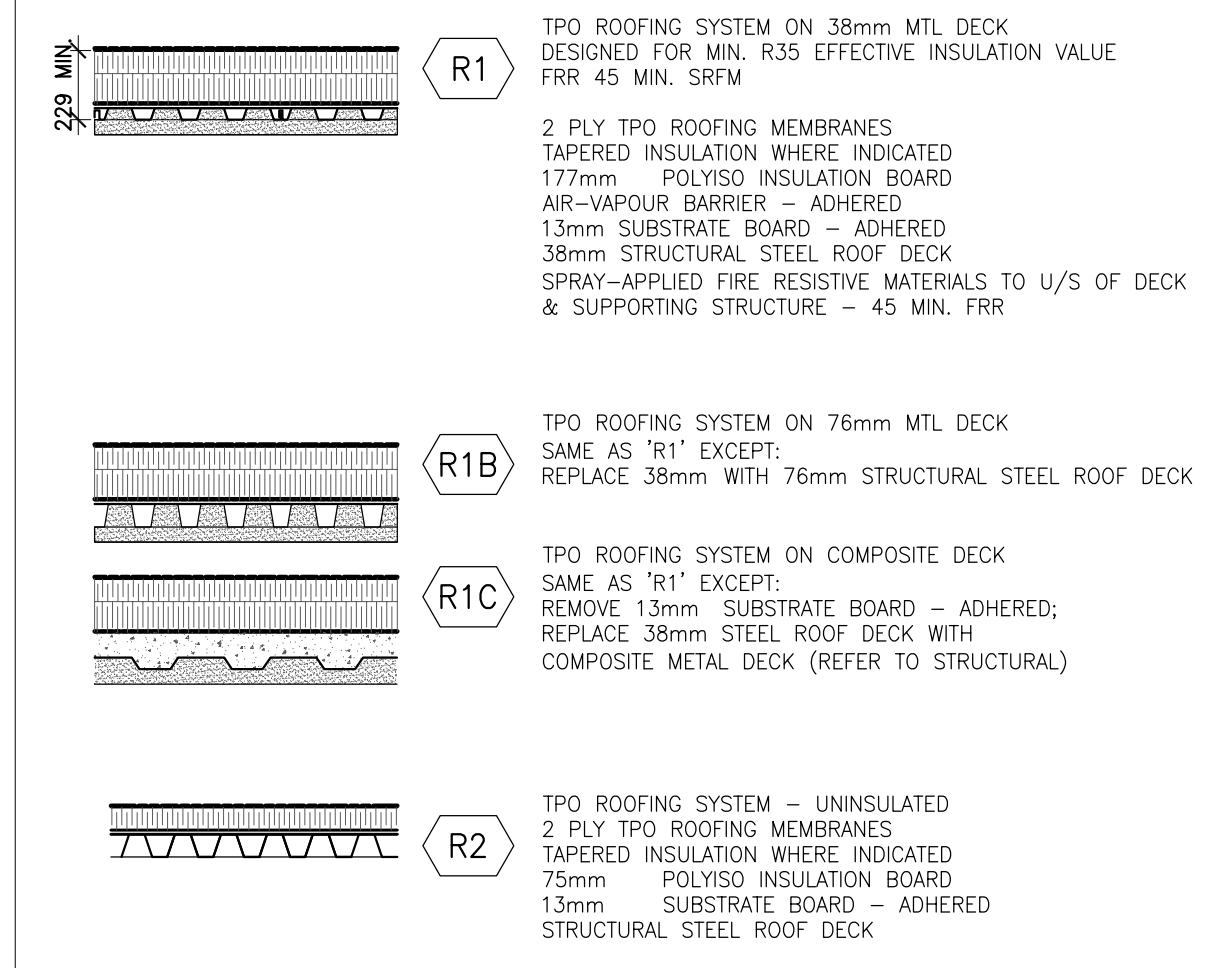
PARAPET TYPES SCHEDULE



GENERAL NOTES - FLOORS

- U.N.O. ALL SLEEVES FOR FLOOR PENETRATIONS ARE BY MECHANICAL DIVISION 15. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- MAINTAIN FLOOR-TO-FLOOR FIRE SEPARATION AT ALL FLOOR PENETRATIONS AS REQUIRED. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- FLOORS WITH DEPRESSION FOR TILE FINISH ARE TO SLOPE TO DRAIN WITH A MINIMUM 1% SLOPE. PONDING OF WATER IS UNACCEPTABLE. TILED FLOOR AREAS WILL BE FLOOD TESTED AND ANY AREAS OF PONDING WILL BE REJECTED.

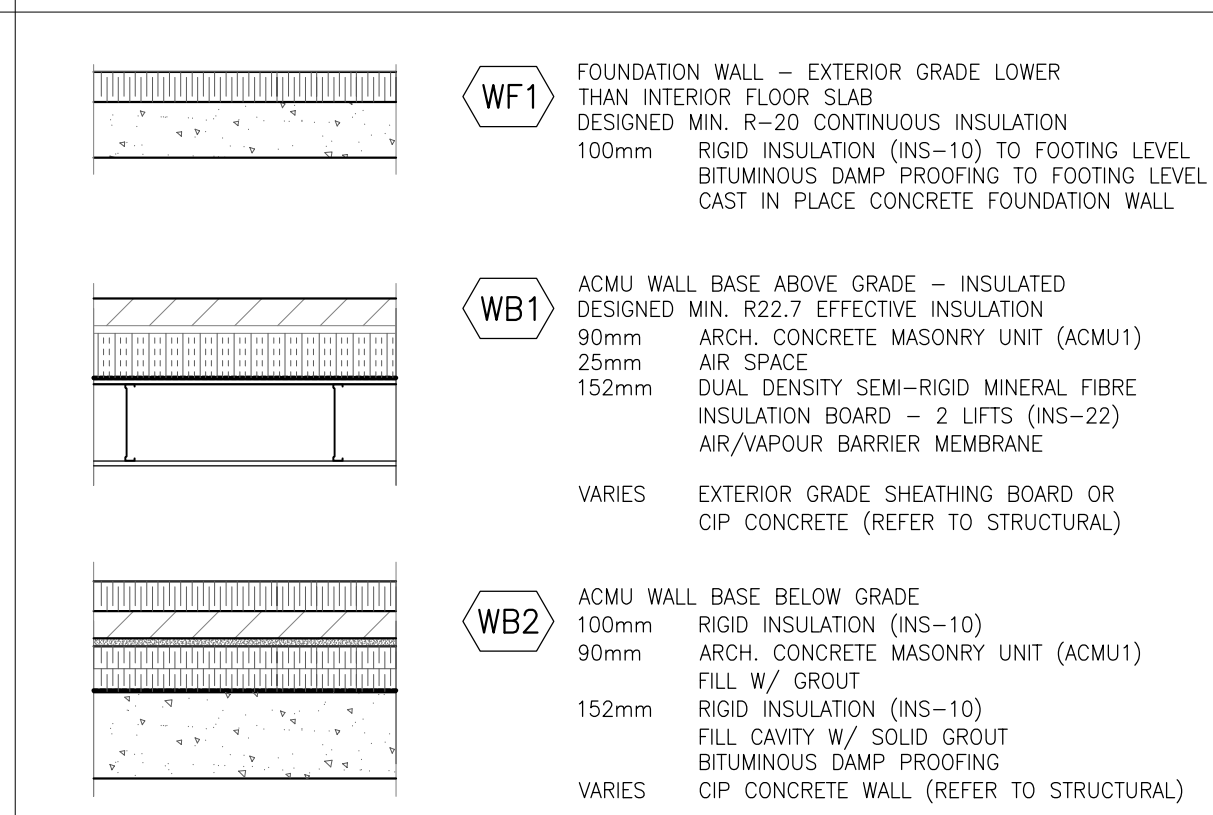
FLOOR TYPES SCHEDULE



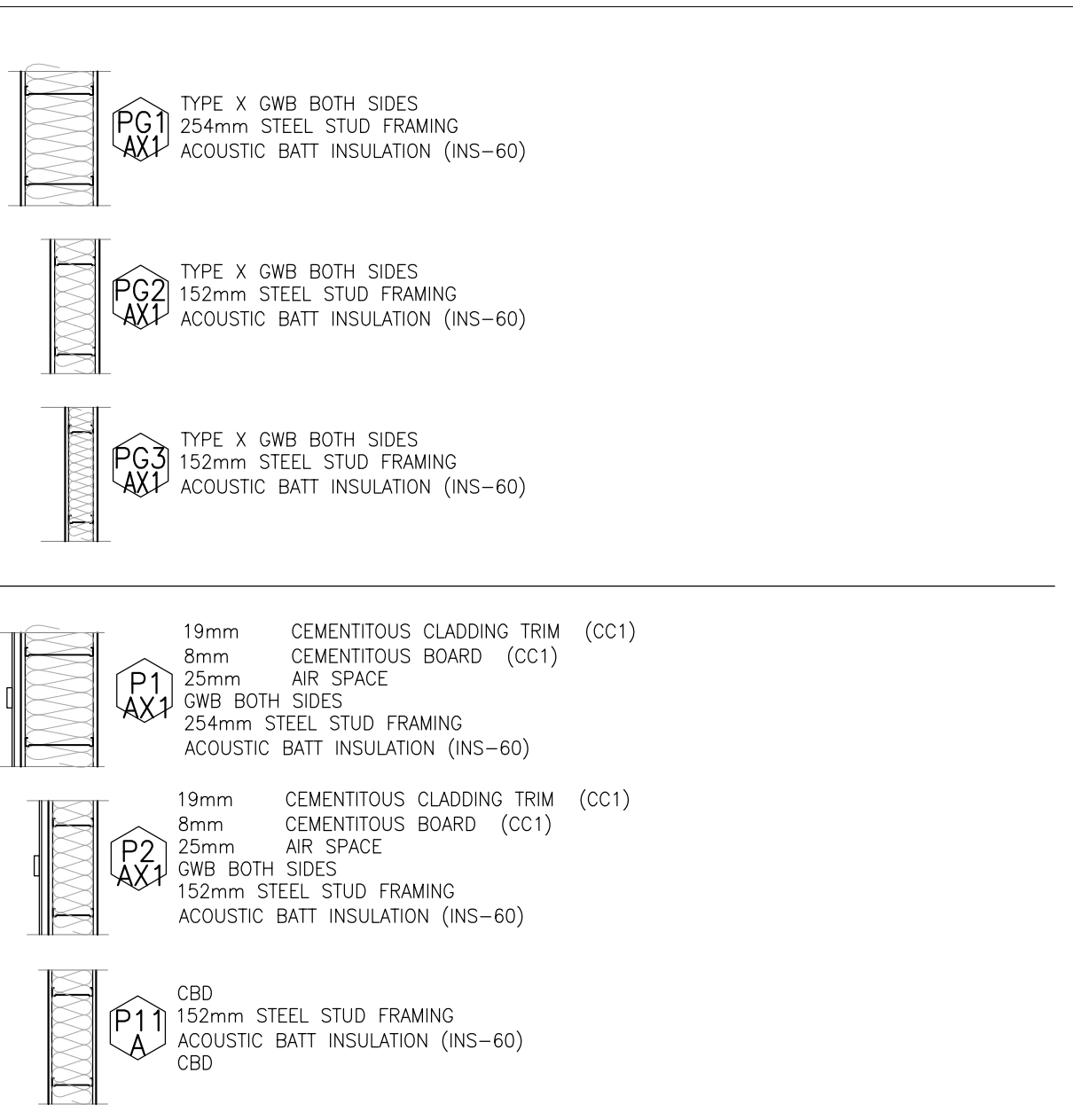
GENERAL NOTES - ROOF

- SEE ROOF PLANS FOR LOCATIONS OF SLOPED INSULATION CRICKETS

ROOF TYPES SCHEDULE



FOUNDATION & BASE WALL TYPES SCHEDULE

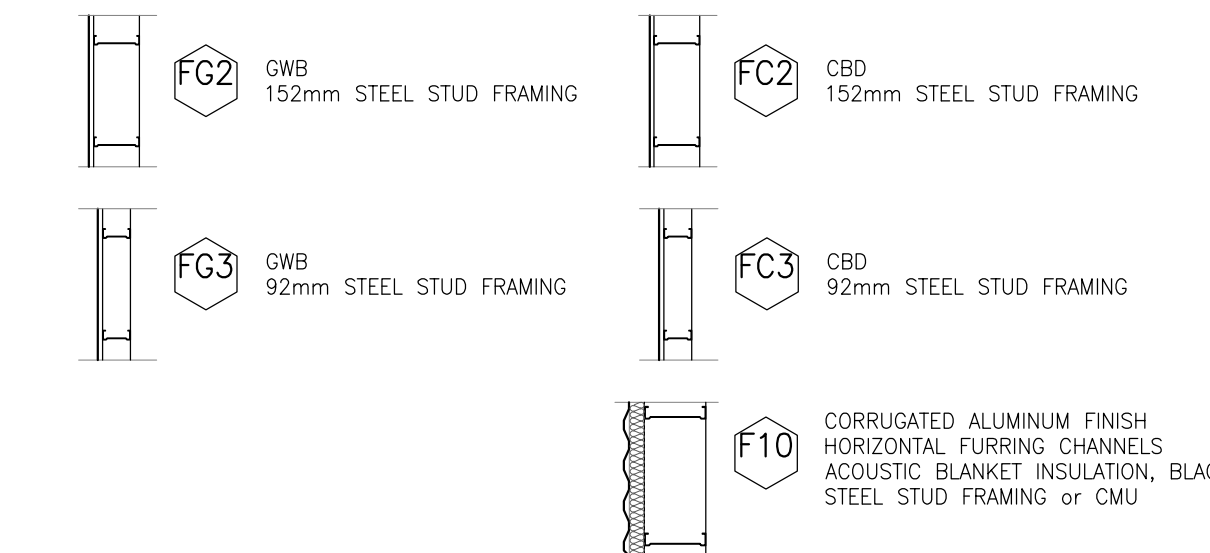


GENERAL NOTES - INTERIOR PARTITIONS

- UNLESS NOTED OTHERWISE, ALL INTERIOR WALLS (PARTITIONS) TO BE FULL HEIGHT PARTITION TYPE 'PM3'.
- UNLESS NOTED OTHERWISE, ALL WALLS AND PARTITIONS TO TERMINATE @ UNDER SIDE OF ROOF DECK, FLOOR SLAB OR STRUCTURAL ABOVE. (ALSO SEE FLOOR PLANS FOR LOCATIONS)
- SEE FIRE SEPARATION DRAWINGS FOR PARTITIONS, DOORS, SCREENS, STRUCTURE ETC. THAT REQUIRE RATINGS AND LABELS (TYPICAL).
- FOR EXTERIOR WALL TYPES AND FINISHES REFER TO WALL TYPE SCHEDULE, WALL SECTIONS AND EXTERIOR ELEVATIONS.
- ALL STEEL STUD FRAMING SUBMITTALS WILL BE REVIEWED BY CONSULTANT
- READ IN CONJUNCTION WITH 09 29 01 - INTERIOR WALL BOARD SCHEDULE.
- TYPICAL BOARD THICKNESS (UNLESS NOTED OTHERWISE):
- GYPSUM WALL BOARD (GWB) PANELS: 16MM
- CEMENT BOARD (CB) PANELS: 13MM
- METAL STUD SPACING: 400 MM O/C UNLESS NOTED OTHERWISE.
- STANDARD GAUGE: 0.458 MM (Z5 GAUGE).
- HEAVY GAUGE AT HIGHER DENSITY PANELS: (GWB-AR, GWB-IR, GWB-TB, CBD-TB): 0.8376 MM (20 GAUGE).
- USE 16mm TILE RIGID POLYSTYRENE BACKER BOARD WHERE GWB INDICATED AT ALL TILE AND WALL PROTECTION FINISHES



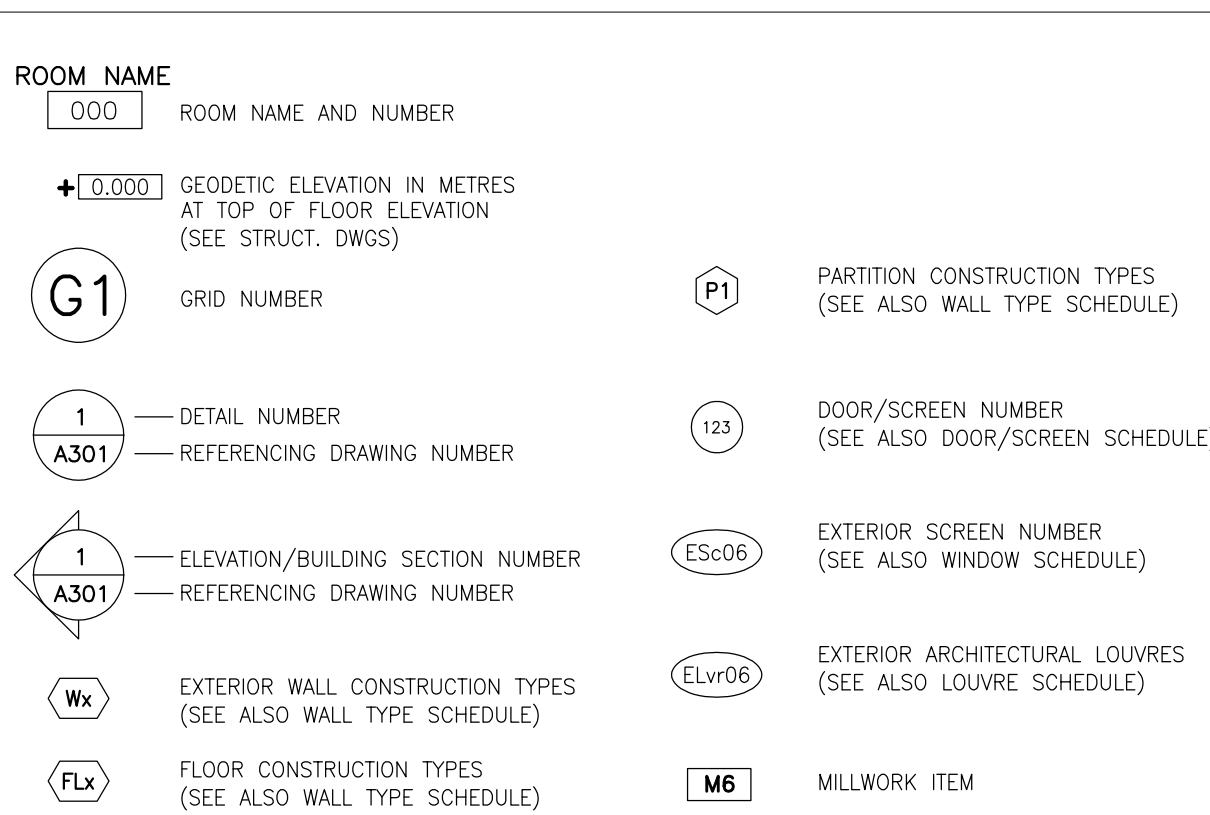
INTERIOR PARTITION TYPES SCHEDULE



GENERAL NOTES - INTERIOR FURRING

- ALL STEEL STUD FRAMING SUBMITTALS WILL BE REVIEWED BY CONSULTANT
- READ IN CONJUNCTION WITH 09 29 01 - INTERIOR WALL BOARD SCHEDULE.
- TYPICAL BOARD THICKNESS (UNLESS NOTED OTHERWISE):
- GYPSUM WALL BOARD (GWB) PANELS: 16MM
- CEMENT BOARD (CB) PANELS: 13MM
- METAL STUD SPACING: 400 MM O/C UNLESS NOTED OTHERWISE.
- STANDARD GAUGE: 0.458 MM (Z5 GAUGE).
- HEAVY GAUGE AT HIGHER DENSITY PANELS: (GWB-AR, GWB-IR, GWB-TB, CBD-TB): 0.8376 MM (20 GAUGE).

INTERIOR FURRING TYPES SCHEDULE



SOFFIT TYPES SCHEDULE

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7	ISSUED FOR PC-01	220825	BA
8	ISSUED FOR SI-05	220825	BA
9	ISSUED FOR CONSTRUCTION R1	220925	AB
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12			

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maclean jaunkalns miller architects
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toronto ontario m5v 3c1
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TRITON ENGINEERING SERVICES LTD
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ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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

SAYERS FOOD LIMITED
132 BURLLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca

PROFESSIONAL ASSOCIATION OF ARCHITECTS
WEST ALEN
LICENCE 5302

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLLEIGH STREET, APSLEY

DRAWING TITLE
ASSEMBLIES & FLOOR TYPES

SCALE
NTS
DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER

GRAPHICS AND SYSTEM SCHEDULES

A020

Sayers Grocery Store Specifications Matrix - Supplementary		September 29, 2021
03 - Submittals		
.5) Engineered Submittals		
04 05 00	Masonry Procedures Submit engineered shop drawings for the following: • Masonry reinforcement • Masonry ties and connectors	
05 41 13	Load-Bearing Cold-Formed Metal Framing Submit engineered shop drawings, including design, connections and restraint of wall and soffit assemblies. Field review requirements to be supplemented to include the following: • Checking that mill test reports are properly correlated to materials. • Sampling fabrication and erection procedures for general conformity to requirements of the Contract Documents. • Checking fabricated members against specified member shapes. • Sample checking of screwed and bolted joints. • Sample checking that tolerances are not exceeded during fit-up or erection. • General review of field cutting and alterations required by other sections. Include necessary shop details and erection diagrams. Indicate member sizes, locations thicknesses exclusive of coating, coatings and materials. Include connection details for attaching framing to itself and for attachment to the structure. Show splice details where permitted. Indicate dimensions, openings, requirements of related work and critical installation procedures. Show temporary bracing required for erection purposes. Indicate design loads and design calculations, including horizontal and vertical reactions at connections to building structure for all load cases.	
05 50 00	Metal Fabrications Submit engineered shop drawings including plans, sections and large scale details. Indicate components and methods of assembly, materials and their characteristics, fastenings, metal finishes, welds, and their structural characteristics relative to their purpose, and other fabrication information required. Indicate site connections and methods.	
08 42 29	Automatic Sliding Entrance Doors Indicate fastening system for anchorage of door frame to opening, and structural design for each door type and size.	
09 22 00	Metal Supports for Gypsum Board Submit engineered shop drawings for ceiling assemblies.	
.6) Mock Ups		
03 35 03	Polished Concrete Provide 3050 mm x 3050 mm (10' x 10') mock-up at the Place of the Work as part of final installation for approval. Location to be directed by Consultant. Allow for three mock-up areas to determine aggregate exposure classification and polish level.	
04 21 00	Brick Masonry Units Provide complete in-situ mock-up wall assembly, in location designated by the Consultant, prior to the commencement of fabrication and installation of such components.	
04 22 23	Architectural Concrete Masonry Units Provide complete in-situ mock-up wall assembly, in location designated by the Consultant, prior to the commencement of fabrication and installation of such components.	
06 40 00	Architectural Woodwork Provide mock-ups for the following, sizes and locations as directed by the Consultant: • Solid surfacing countertops and fabrications. • Wood ceiling panels. • Factory and site finishing of architectural woodwork.	
06 40 13	Exterior Architectural Woodwork Provide mock-ups for Kiosk area.	
07 27 00	Air Barrier Systems Construct minimum 10 m ² (100 K2) area of each typical wall assembly installation for each type of Product.	
07 44 63	EPS Moulding with Cementitious Coating	

Unit Paving	
Product data sheets:	Submit product data sheets for each paver type and colour.
Shop drawings:	Submit shop drawings including bedding, bonding, jointing and setting details, and the dimensions and identifying number of each piece of stone with indication of sizes, thicknesses, dimensions, layout, finishes, compressive strength, joint and setting mix designs, jointing clearances, cleared between pavers and the adjacent building element.
Samples - color:	Submit 9 full size samples of each paver type and colour to show texture, finish, and range of colour to be supplied.
Samples - setting bed and joint fill material:	Submit samples of setting bed and joint fill material.
Design Calculations:	1. Submit design calculations for paving assembly as prepared by qualified professional engineer registered in the Place of the Work. 2. Submit design calculations complete with references to codes and standards used in such calculations, supporting the proposed design represented by the submittal. Prepare calculations in a clear and comprehensive manner. 3. Upon completion of the parts of the Work covered by the design calculations, the professional engineer responsible for the preparation of the design calculations and for undertaking the periodic field reviews described above, shall prepare a letter of general conformity for those parts of the Work, certifying that they have been provided in accordance with the requirements both of the Contract Documents and of the authorities having jurisdiction over the Place of the Work.
Test data:	1. Provide test certificates of tests carried out by an independent testing laboratory verifying that stone meets the specifications, for each colour of stone. If certificates are not available, retain an independent inspection and testing company to carry out the tests, minimum of 3 specimens for each test unless otherwise specified in ASTM. Submit test certificates to Consultant at least 8 weeks before commencing stone installation. 2. Provide certificate signed by manufacturer that the stone materials to be supplied comply with specified performance characteristics and physical

	Construct typical wall assembly installation showing all applicable details.	
07 46 46	Cementitious Cladding Construct minimum 10 m ² (100 K2) area of each typical wall assembly installation showing all applicable details.	
07 82 00	Metal Flashing Provide on-site mock-up of the following: • Ceiling flashing. • Roof edge flashing. • Counter flashing. • Fascia flashing. • Special flashing conditions.	
09 31 00	Tiling Provide grouted mock-up: 1220 mm x 1220 mm (48" x 48") sample panels of each tile type and colour, texture, size, and pattern of tile and grout. Install each product and colour mock-up for acceptance by Consultant. Accepted mock-up shall form basis of standard of workmanship for remainder of work. Mock-up shall consist of floor/wall base corner intersection including cove base inside and outside corners, with 300 mm (12") of finish product on each face.	
09 65 13	Premanufactured Bases Premanufactured base mock-up shall include at least one inside corner, one outside corner plus 3 m (10'-0") of straight run.	
09 65 18	Slip Resistive Vinyl Sheet Flooring Provide mock-up of sufficient size to indicate adhesion, joint welding, edge treatment, and cove base.	
09 91 00	Painting Provide full finished mock-up installation of each paint colour, for indicated surfaces and mock-up size, showing colour and finish selected by Consultant, under lighting conditions matching final area lighting, for acceptance by Consultant. Locate at Place of the Work as part of finished installation if accepted.	
Exterior Improvement		
Concrete Reinforcement Submit engineered shop drawings for reinforcement.		
Cast-in-Place Concrete Submit certified mix designs for each type of concrete to be used, stating the specific location, using structural element for which the mix applies and 305 mm (12") x 305 mm (12") sample of specified finish.		
Metal Fabrication Submit engineered shop drawings of all exterior metal work, including, boiler, sign post, handrail at up concrete steps and ramp, and chain link fence. Provide in shop drawings plans, sections and large scale details. Indicate components and methods of assembly, materials and their characteristics, fastenings, metal finishes, welds, and their structural characteristics relative to their purpose, and other fabrication information required. Indicate site connections and methods.		
Site Furnishing Submit engineered shop drawings and product data sheets of bench, movable planter & bench, and tactile plate.		
Topsoil Product data sheets: Submit data describing planting mix components and certificates indicating that the materials meet specification requirements for review a minimum of 45 business days prior to planned installation of planting mix. Samples: Submit samples of planting mix components for approval a minimum of 45 business days prior to planned installation of planting mix with clear label on samples with relevant identifying characteristics including but not limited to the type of material, percentage of each component materials, source and stockpile location, and manufacturer contact information. Samples to be submitted for review and acceptance at the same time as test reports. Test reports: Submit written laboratory test results for approval within 20 business days of approval of planting mix components.		

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	REVISED SPA	210809	AB
2	ISSUED FOR TENDER	210824	AB
3	REVISION TO BUILDING PERMIT	220315	AB
4	SI-01	220615	AB
5	BLG SET-OUT CAD	220715	AB
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MJMA
maclennan jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmachitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

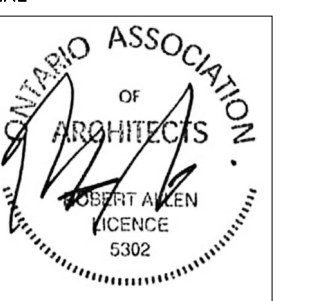
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MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416 487 8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL



PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

SUBMITTALS

SCALE

NTS

DATE

JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A022

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8	ISSUED FOR SI-05	220825	BA
9	ISSUED FOR CONSTRUCTION R1	220925	AB
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maclennan jaunkalns miller architects
425 adelaide street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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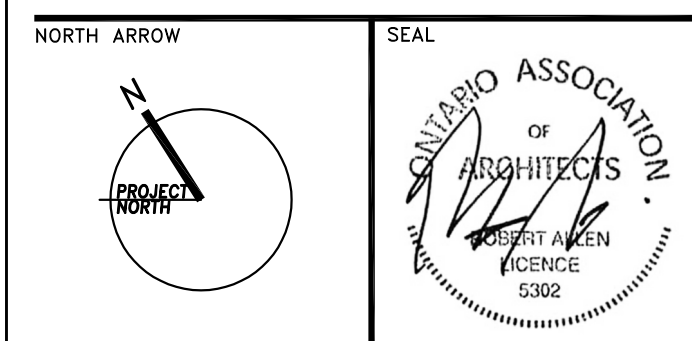
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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca



PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

**GROUND LEVEL
FLOOR PLAN**

SCALE

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DATE

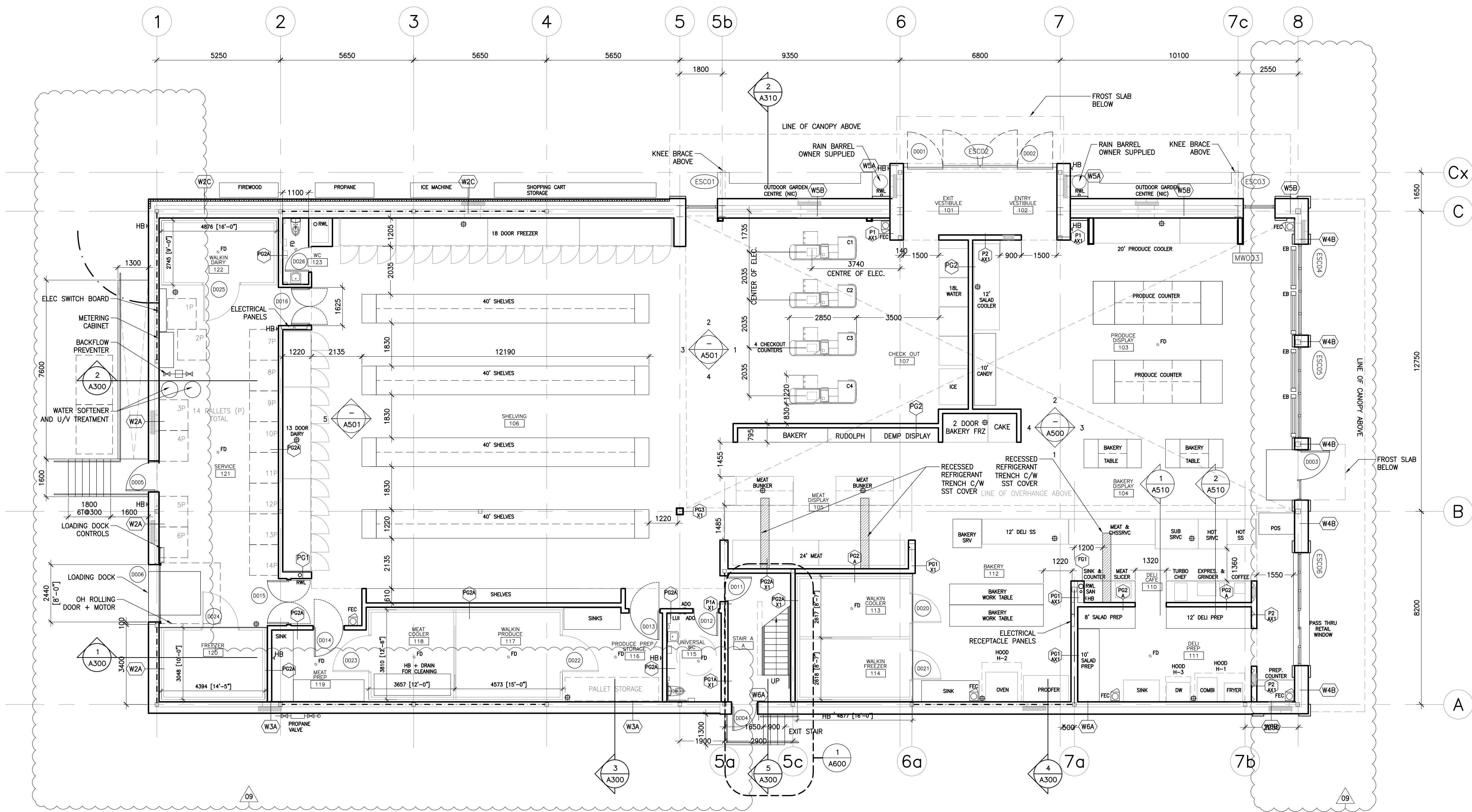
JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A100



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REVISIONS AND ISSUES

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maclellenn jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS

229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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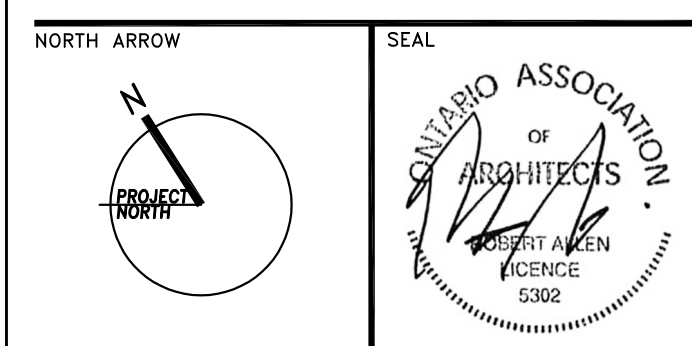
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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MECHANICAL AND ELECTRICAL ENGINEERS

1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E. 705.806.4531
e: sayers@apsley.ca



PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

**LEVEL 2
FLOOR PLAN**

SCALE

1:100

DATE

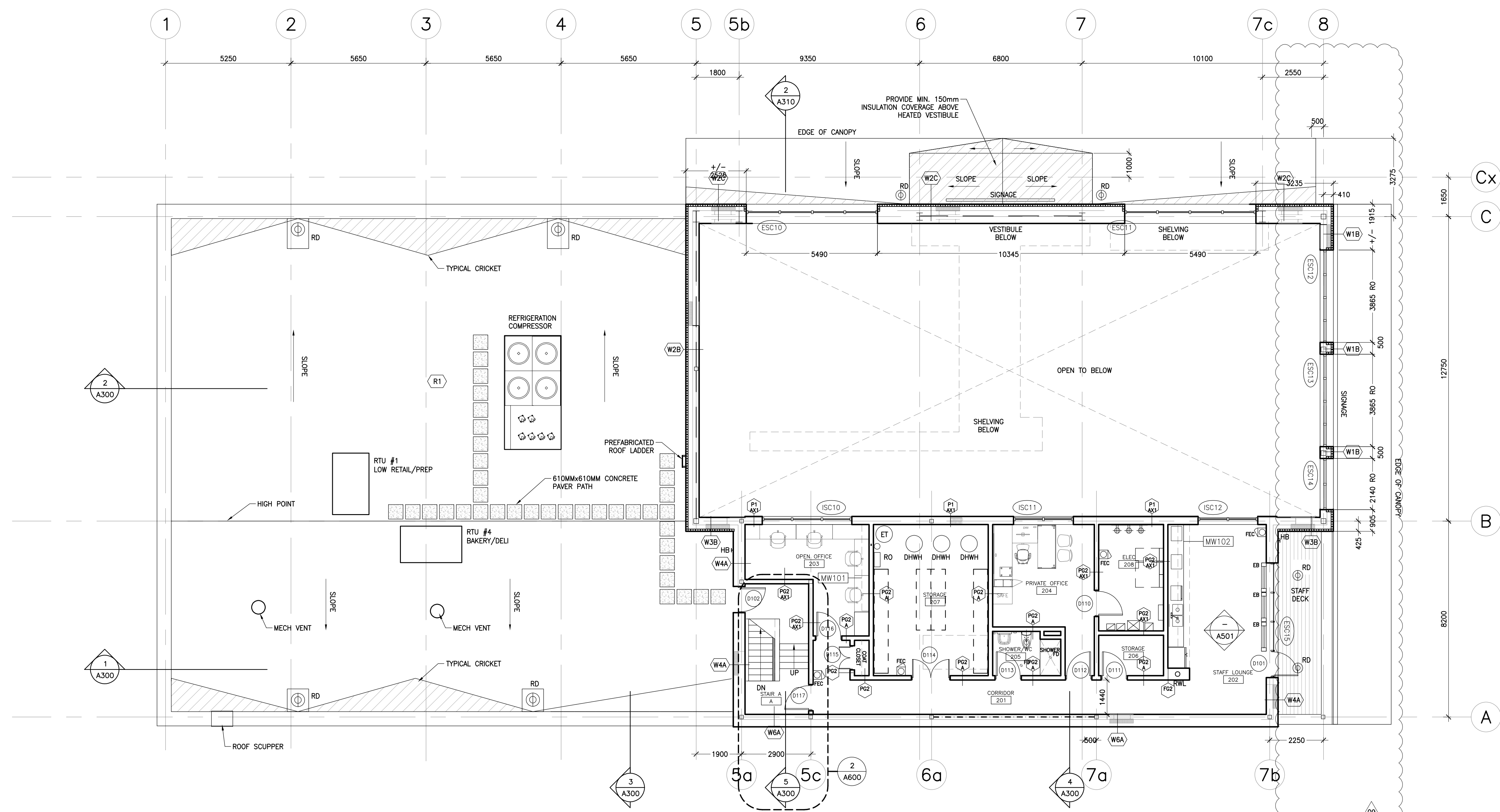
JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A101



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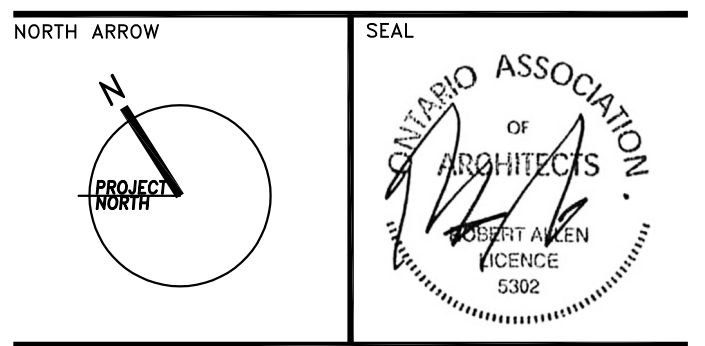
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maclennan jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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

SAYERS FOOD LIMITED
132 BURLLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca



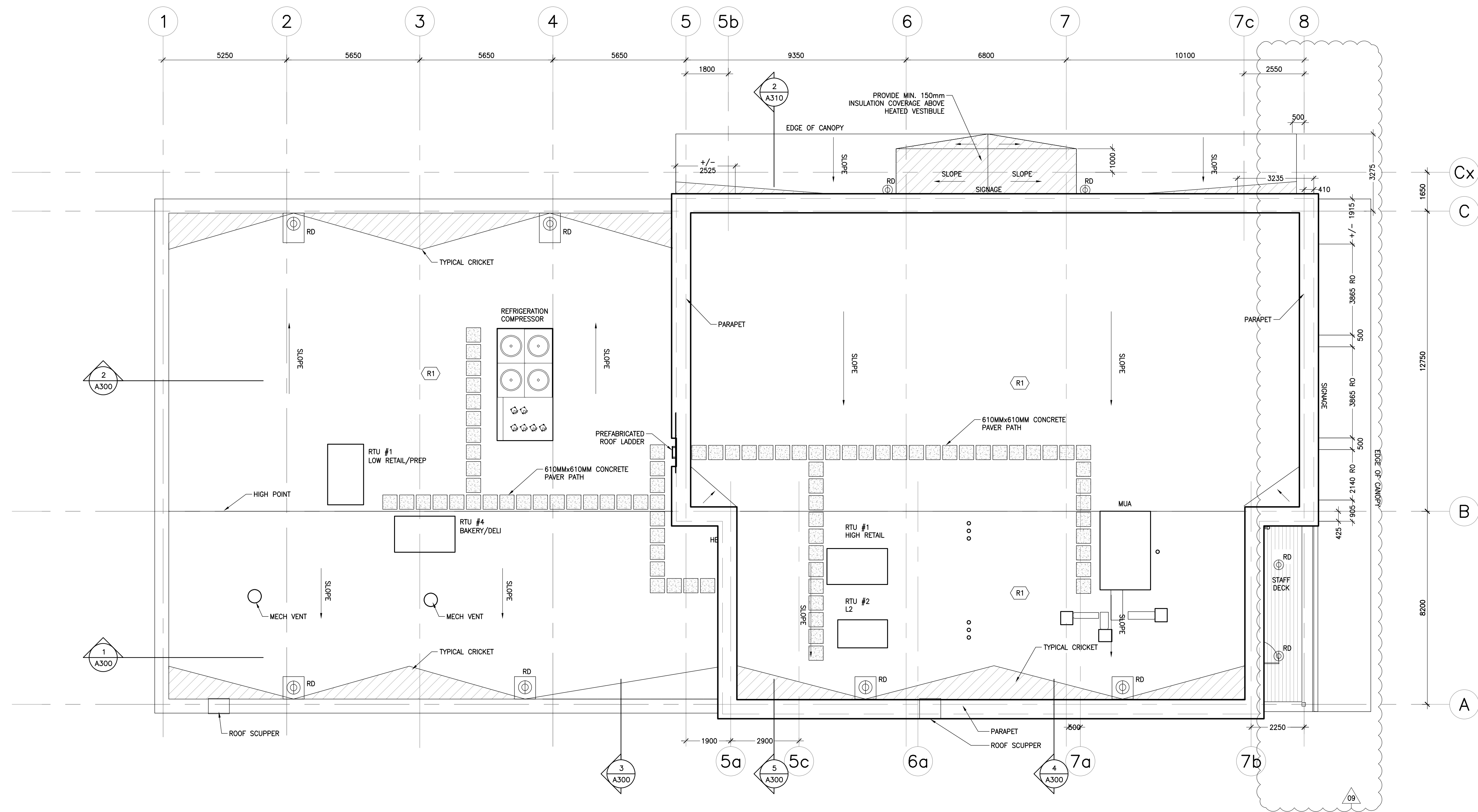
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLLEIGH STREET, APSLEY**

DRAWING TITLE
ROOF PLAN

SCALE
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DATE
JULY 15, 2022

PROJECT NUMBER
2102
DRAWING NUMBER

A102



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REVISIONS AND ISSUES

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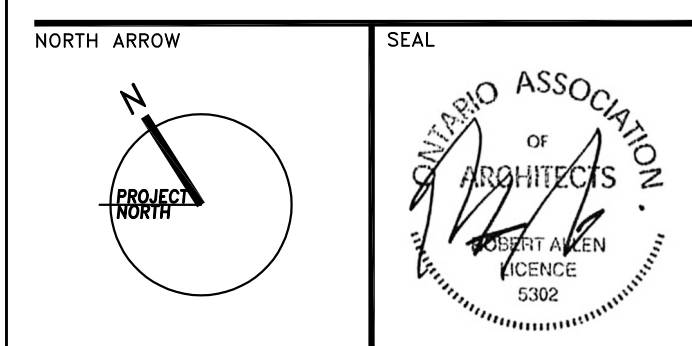
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229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416 487 8151

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132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca



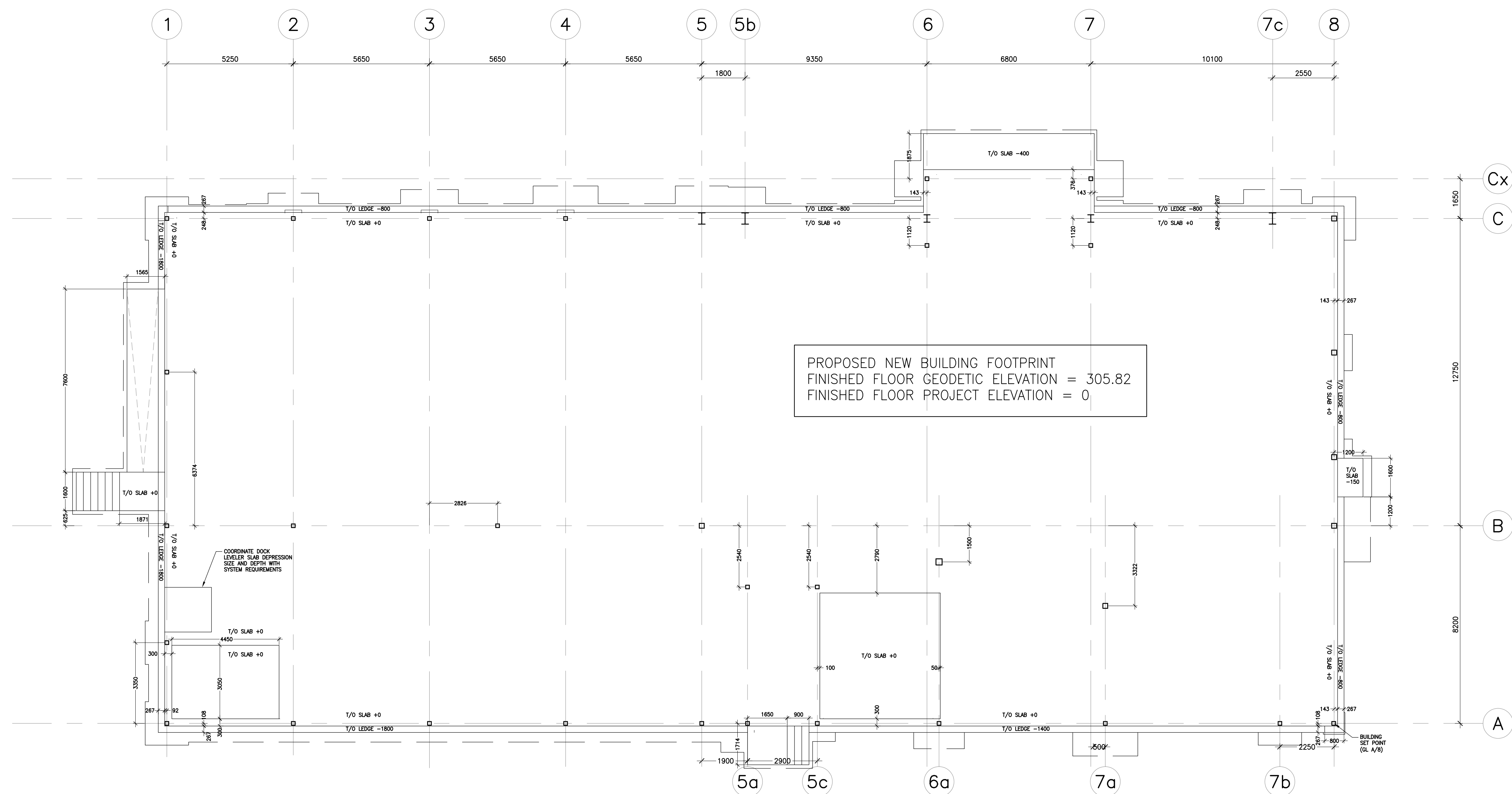
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**GROUND LEVEL
SETOUT PLAN**

SCALE
1:100
DATE
JULY 15, 2022

PROJECT NUMBER
2102
DRAWING NUMBER

A120



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REVISIONS AND ISSUES

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maclennan jaunkalns miller architects
425 adelaide street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E 705.866.4531
e: sayers@apsley.ca

NORTH ARROW

PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**GROUND LEVEL
REFLECTED CEILING PLANS**

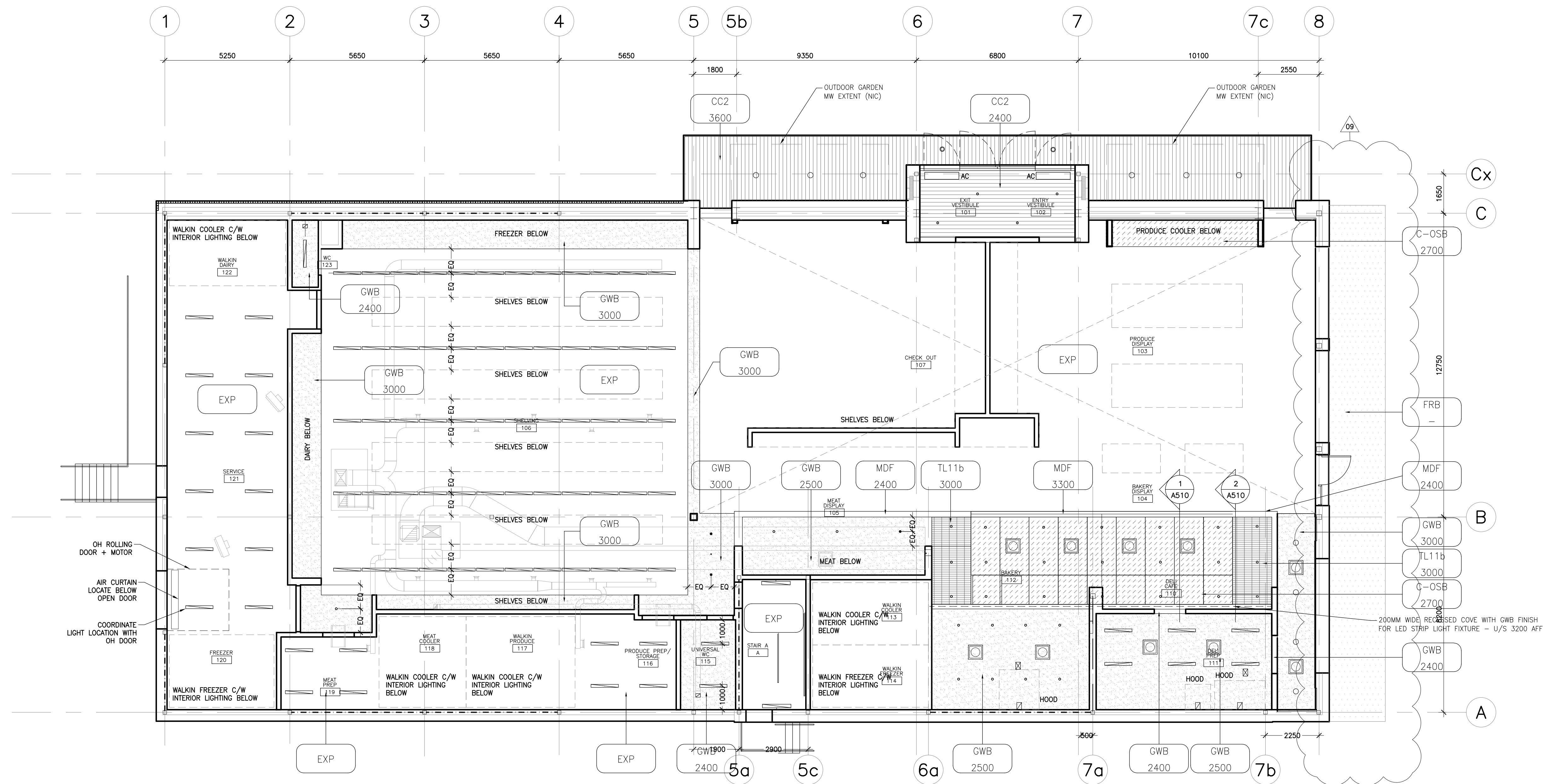
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DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER

A150



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REVISIONS AND ISSUES

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maclennan jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

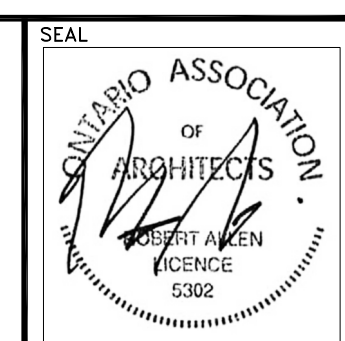
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TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

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132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca

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PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

**LEVEL 2
REFLECTED CEILING PLAN**

SCALE

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DATE

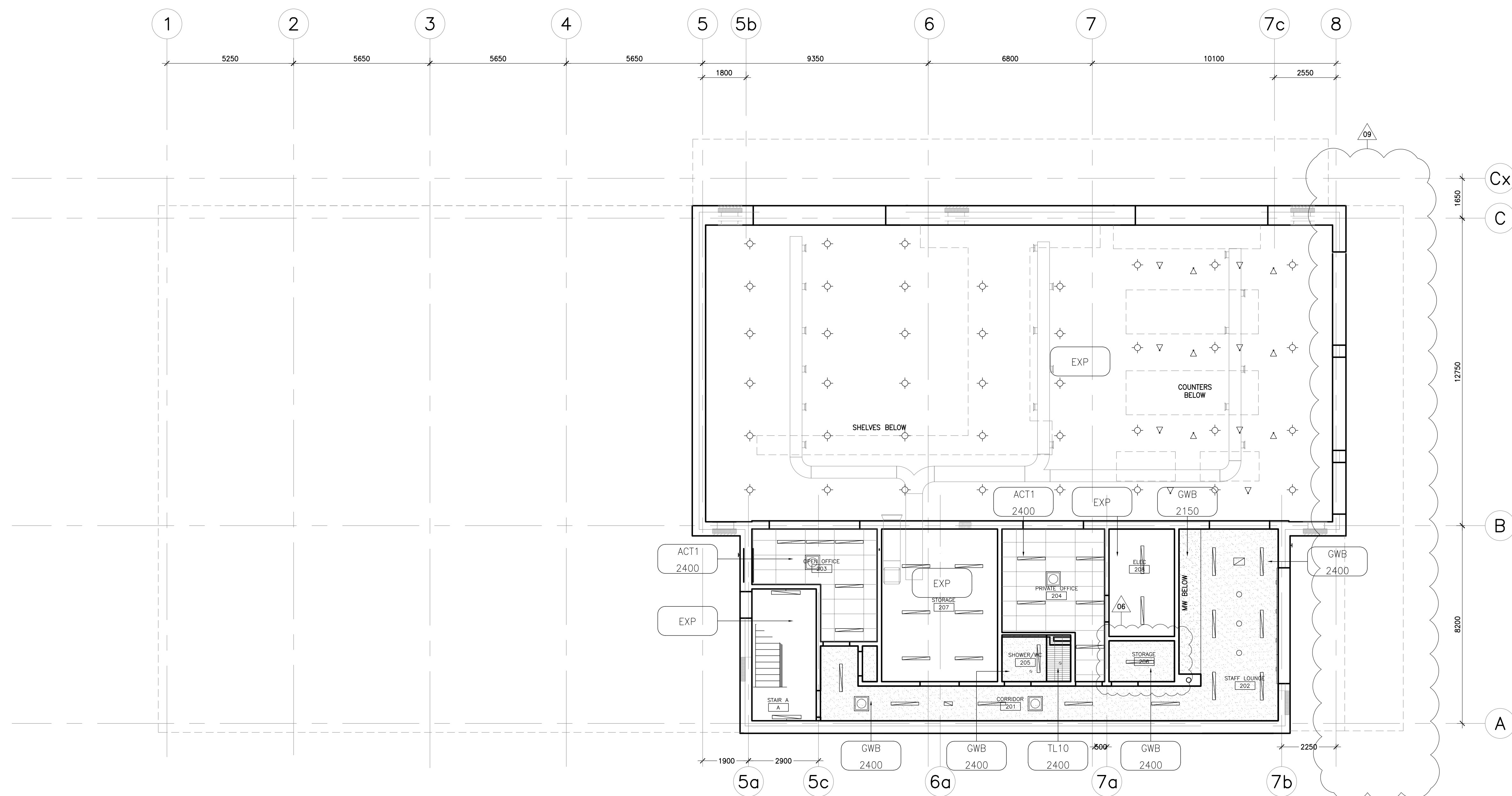
JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

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maclean jankins miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
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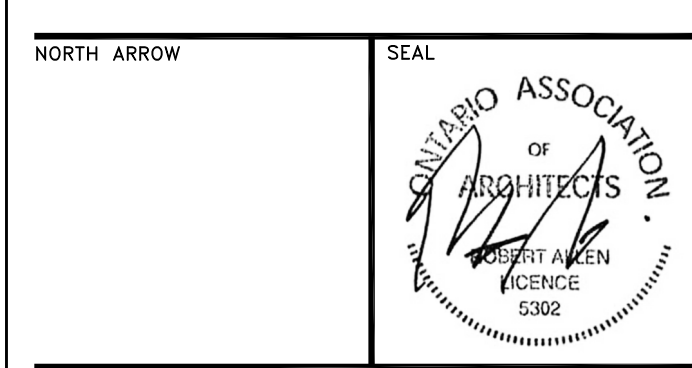
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CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON
MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416 487 8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
BUILDING ELEVATIONS

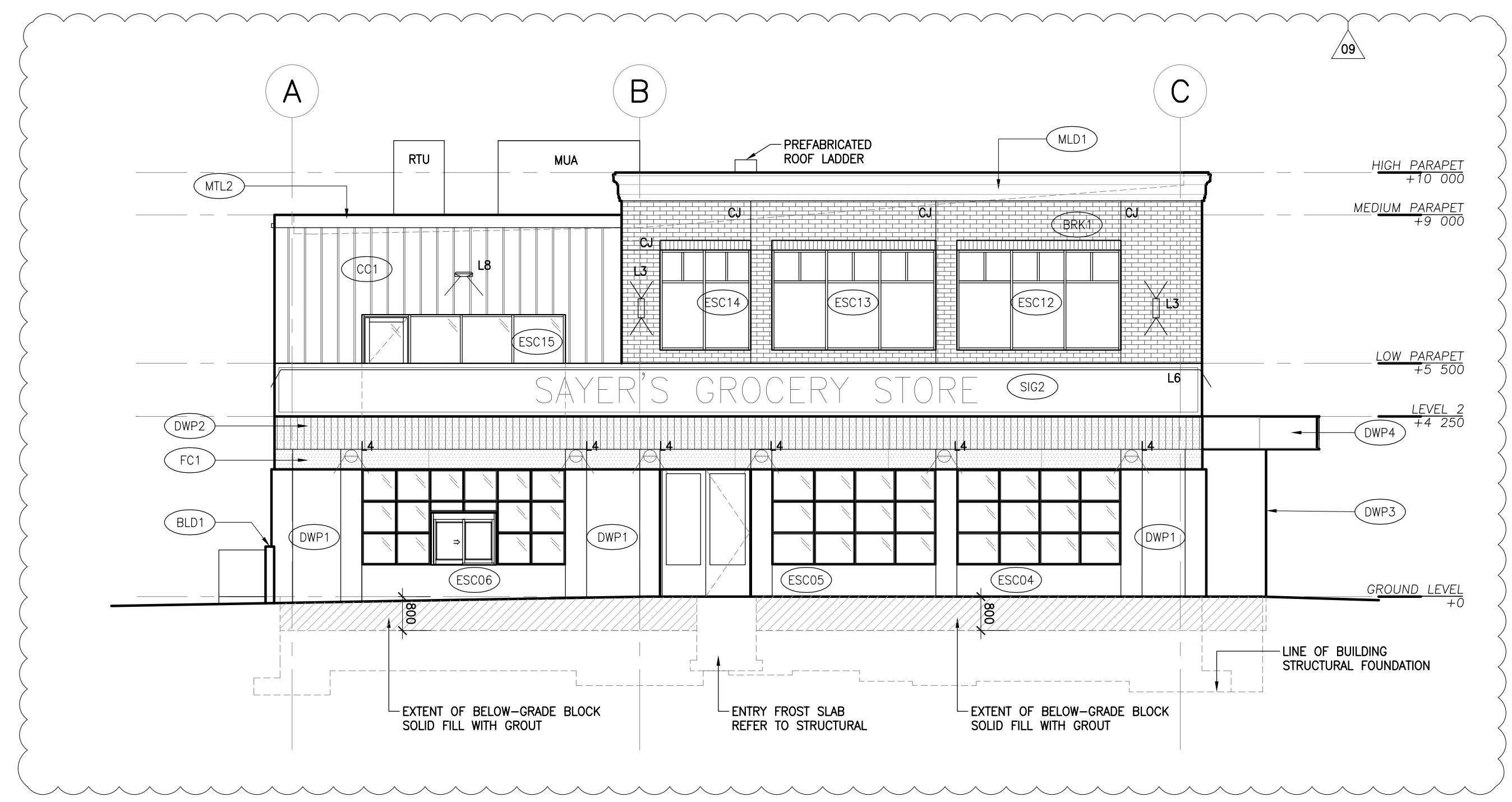
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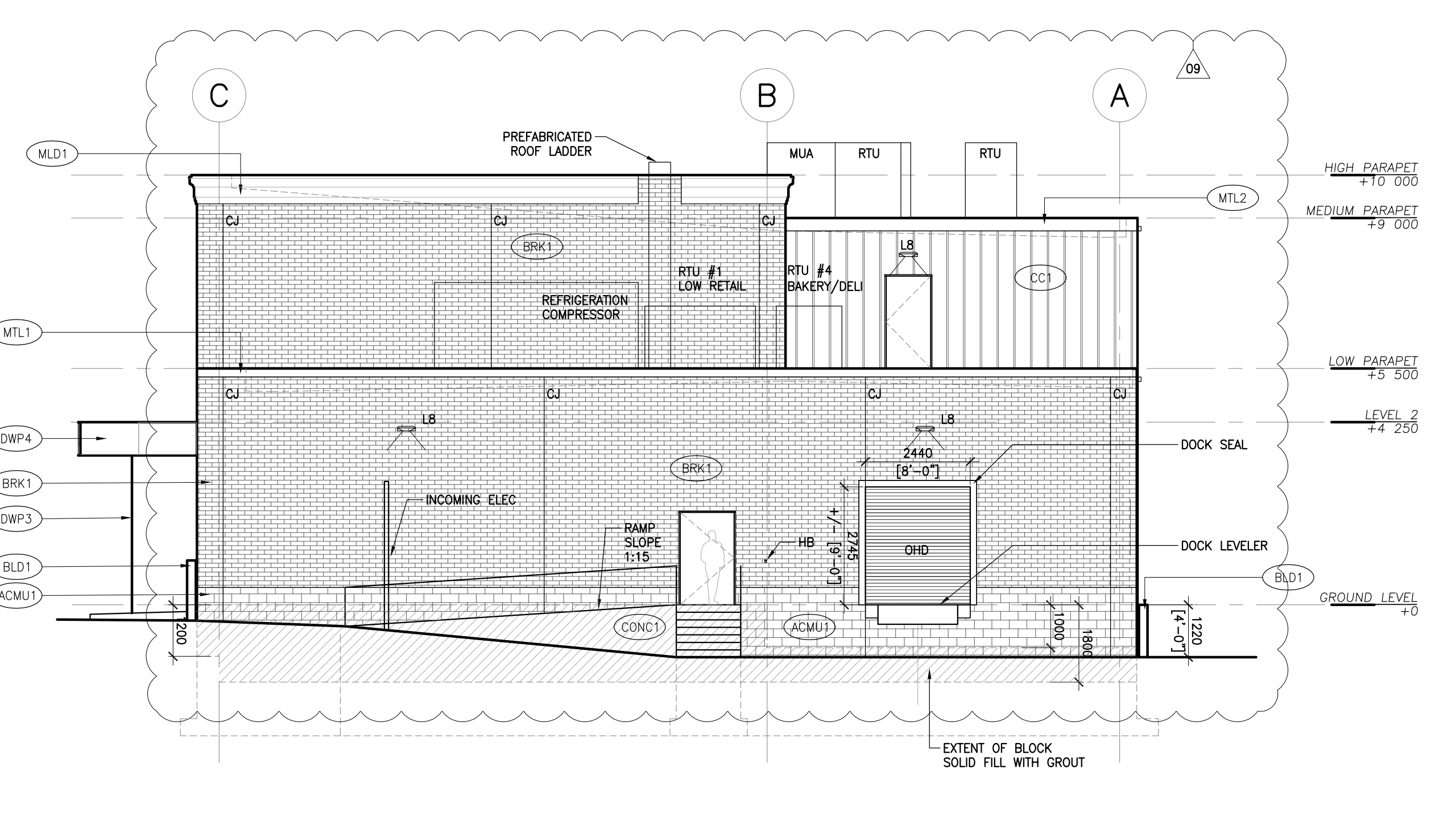
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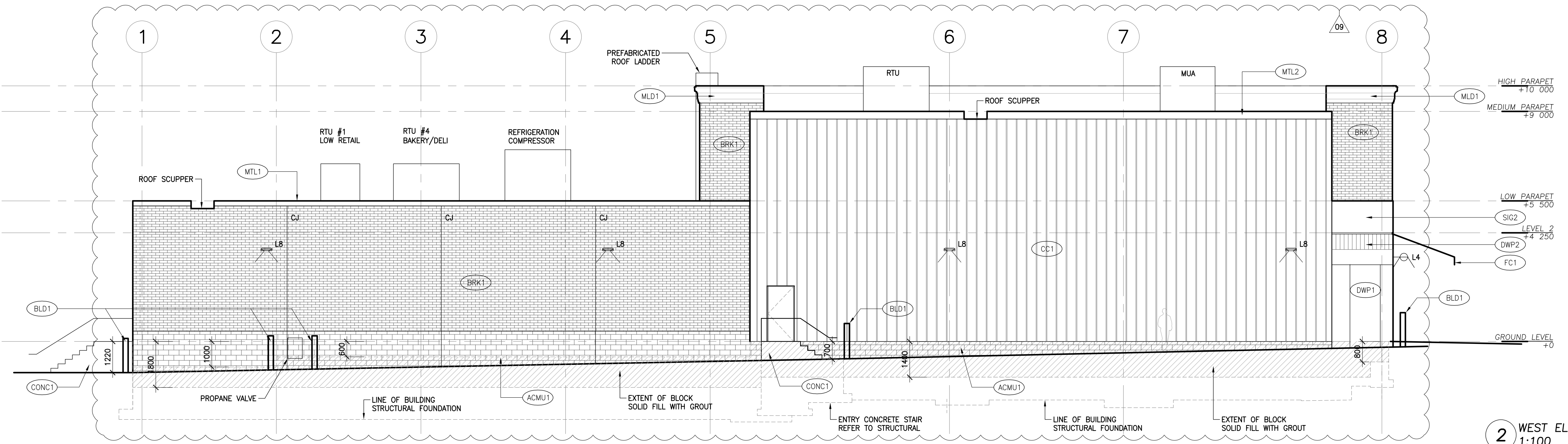
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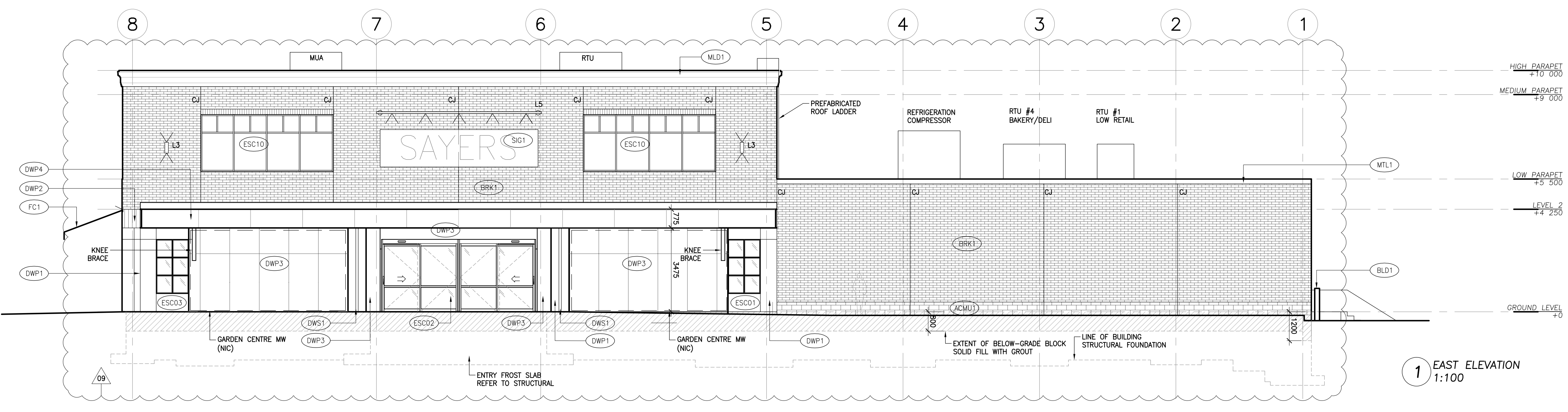
**3 SOUTH ELEVATION
1:100**



**4 NORTH ELEVATION
1:100**



**2 WEST ELEVATION
1:100**



**1 EAST ELEVATION
1:100**

EXTERIOR LIGHTING SCHEDULE

L1	PARKING LOT LIGHT POST	DOWN
L2	PARLETTE ACCENT LIGHT	DOWN
L3	FACADE UP/DOWN LIGHT	UP/DOWN
L4	FACADE SCENCE	DOWN
L5	FACADE EAST SIGN	DOWN
L6	FACADE SOUTH SIGN	DOWN
L7	-	-
L8	FACADE SERVICE	DOWN
L9	-	-
L10	MARKET STALL ACCENT	DOWN
L11	CANOPY POT LIGHTS	DOWN

ELEVATION MATERIAL LEGEND

ACMU1	ARCHITECTURAL CONCRETE MASONRY UNITS
BRK1	BRICK
CC1	CEMENT CLADDING - BOARD AND BATTEN TEXTURE
DWP1	DECORATIVE WALL PANELING - PAINTED
DWP2	DECORATIVE WALL PANELING - PAINTED (CC2 + CUSTOM MOLDING)
DWP3	EAST ENTRY PANELING - PAINTED (CC2 + CUSTOM MOLDING)
DWP4	CANOPY FASCIA PANELING - PAINTED (CC2 + CUSTOM MOLDING)
MLD1	EXTERIOR MOLDING - PAINTED PLASTER
CONC1	CIP CONCRETE
MTL1	PREFINISHED METAL FLASHING
MTL2	PREFINISHED METAL FLASHING
-	-
WD1	EXTERIOR WOOD FENCE STAINED
WD2	EXTERIOR WOOD GARDEN STALLS STAINED
BLD1	METAL BOLLARD PAINTED
FC1	FABRIC CANOPY
SIG1	EAST SIGNAGE PANEL
SIG2	SOUTH SIGNAGE PANEL
DWS1	PTD METAL DOWNSPOUT
SPP1	SOLID PHENOLIC PANEL

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

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1	REVISED SPA	210809	AB
2	ISSUED FOR TENDER	210824	AB
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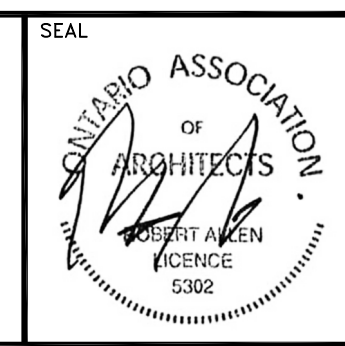
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132 BURLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca

NORTH ARROW



PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

BUILDING SECTIONS

SCALE

1:100

DATE

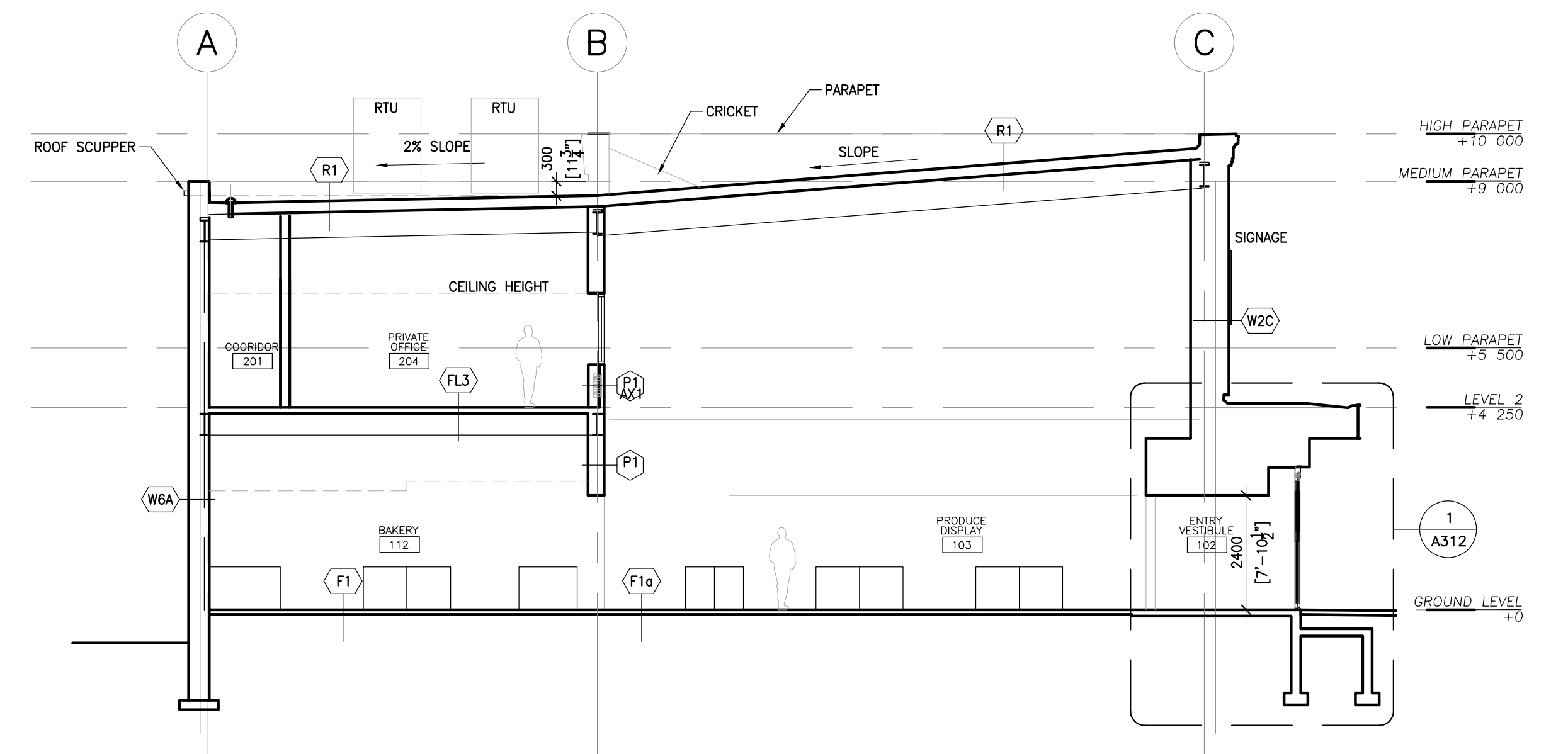
JULY 15, 2022

PROJECT NUMBER

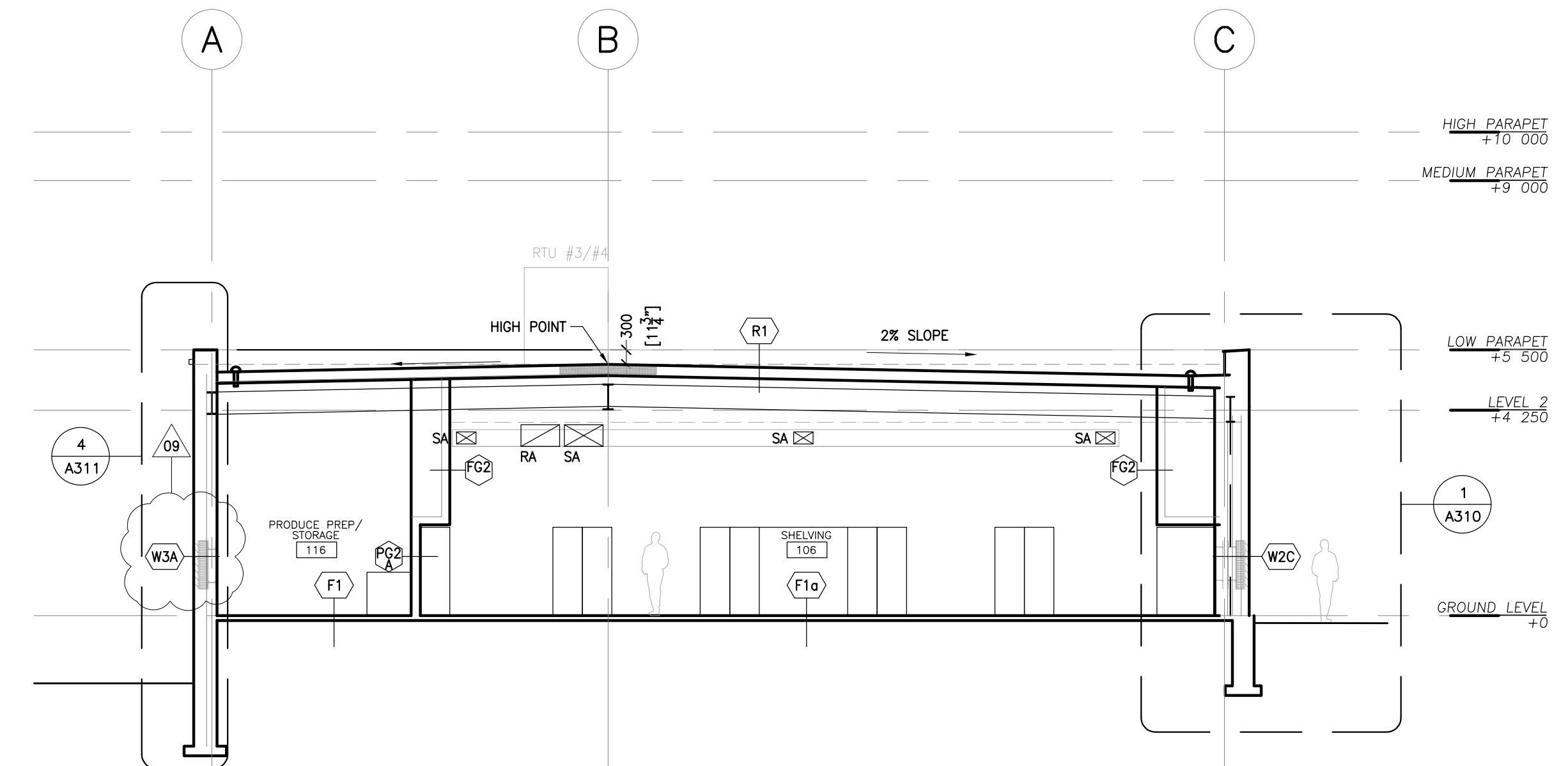
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DRAWING NUMBER

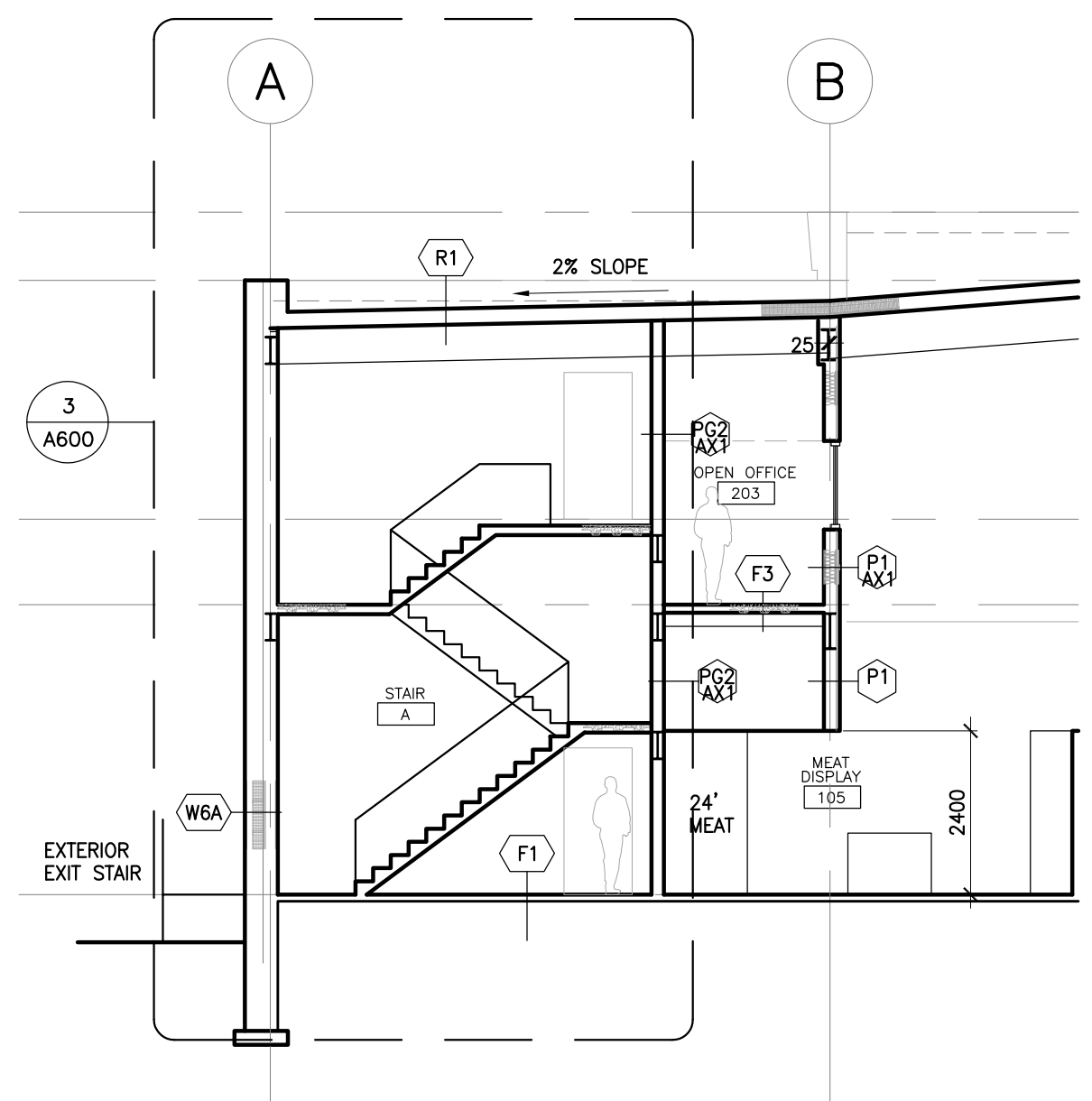
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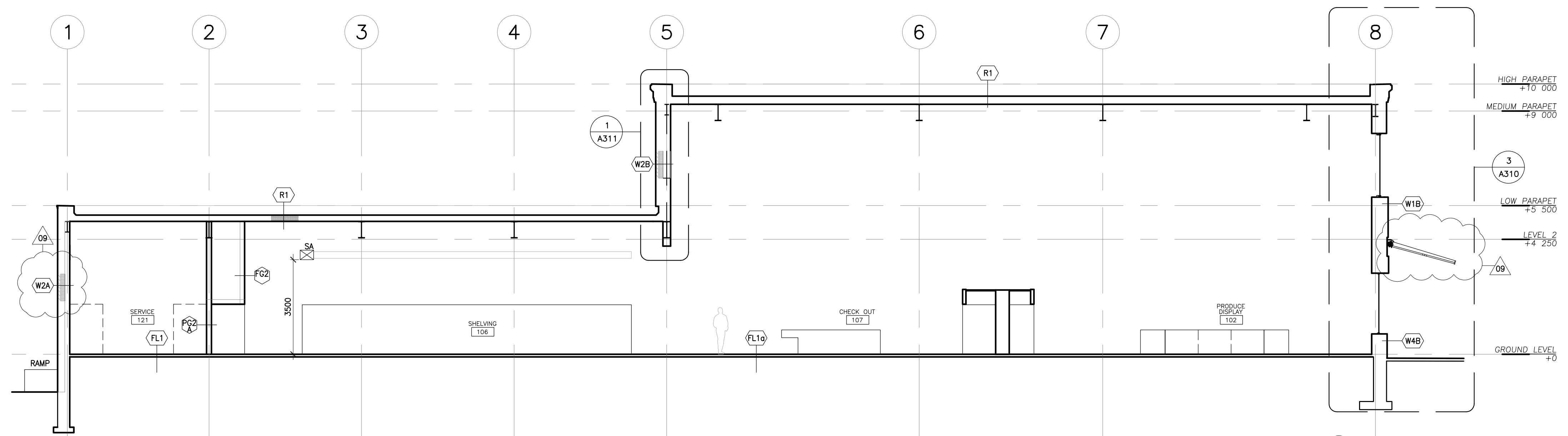
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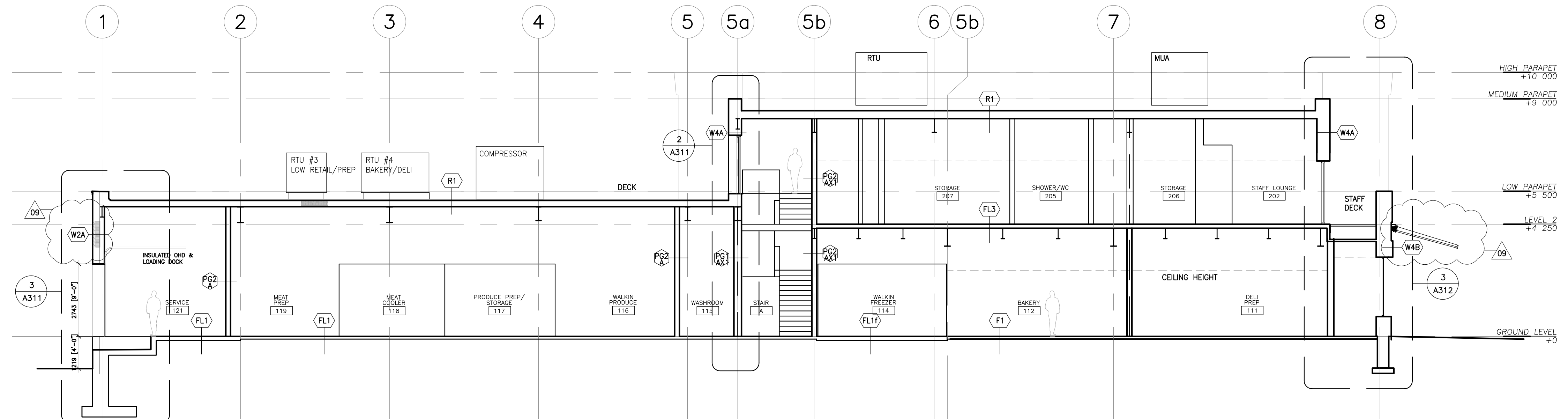
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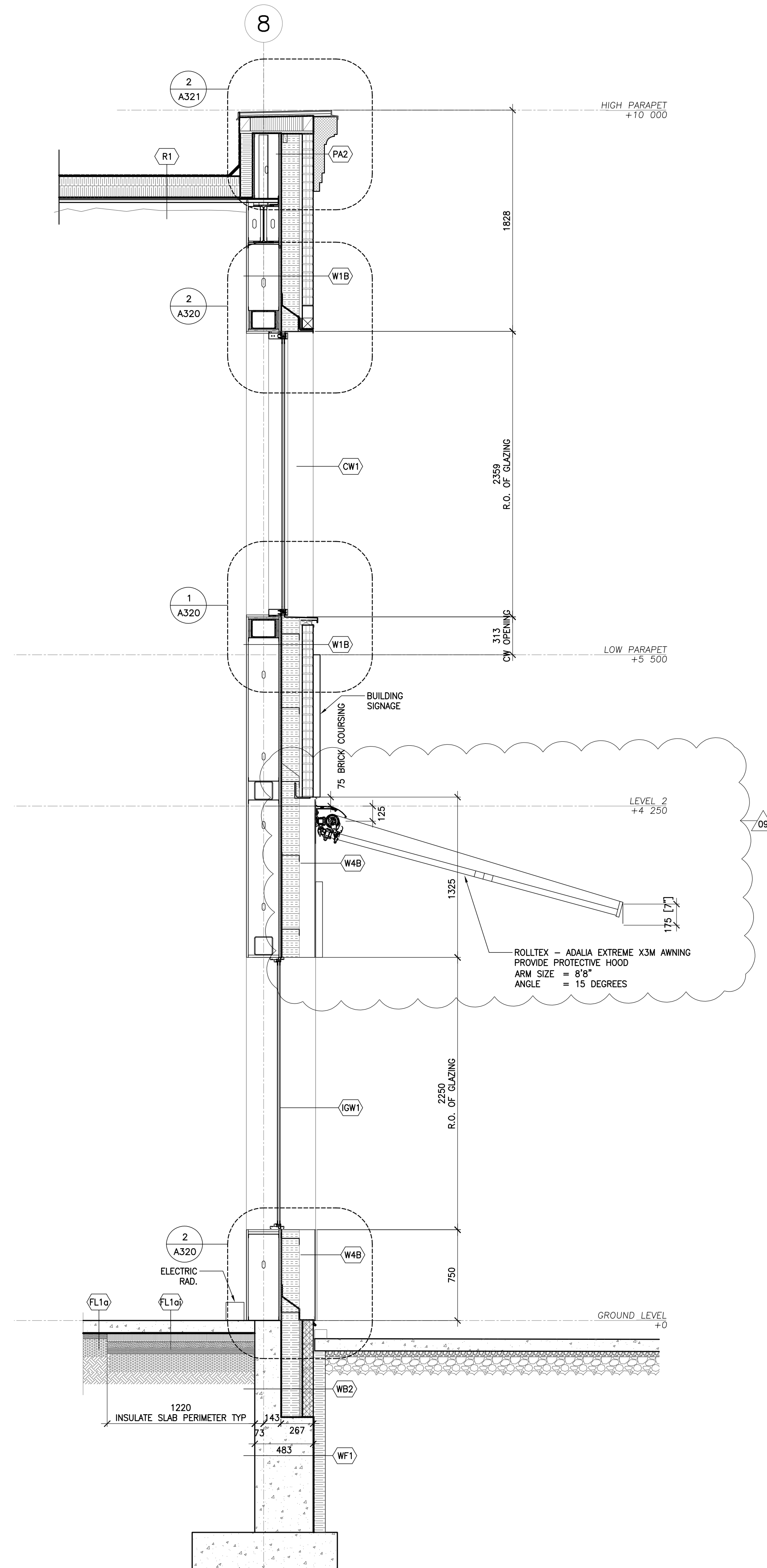
**5 EAST-WEST BUILDING SECTION
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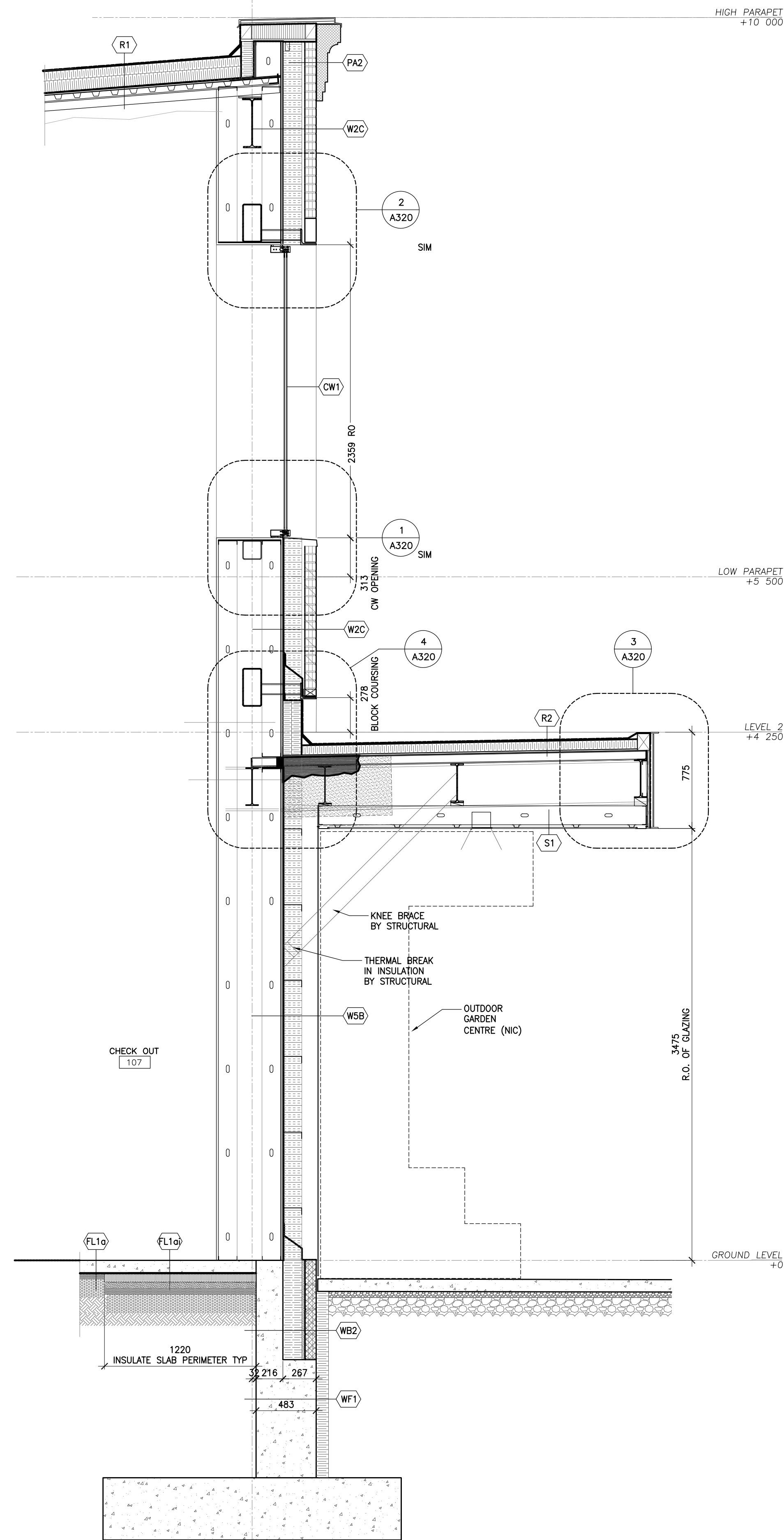
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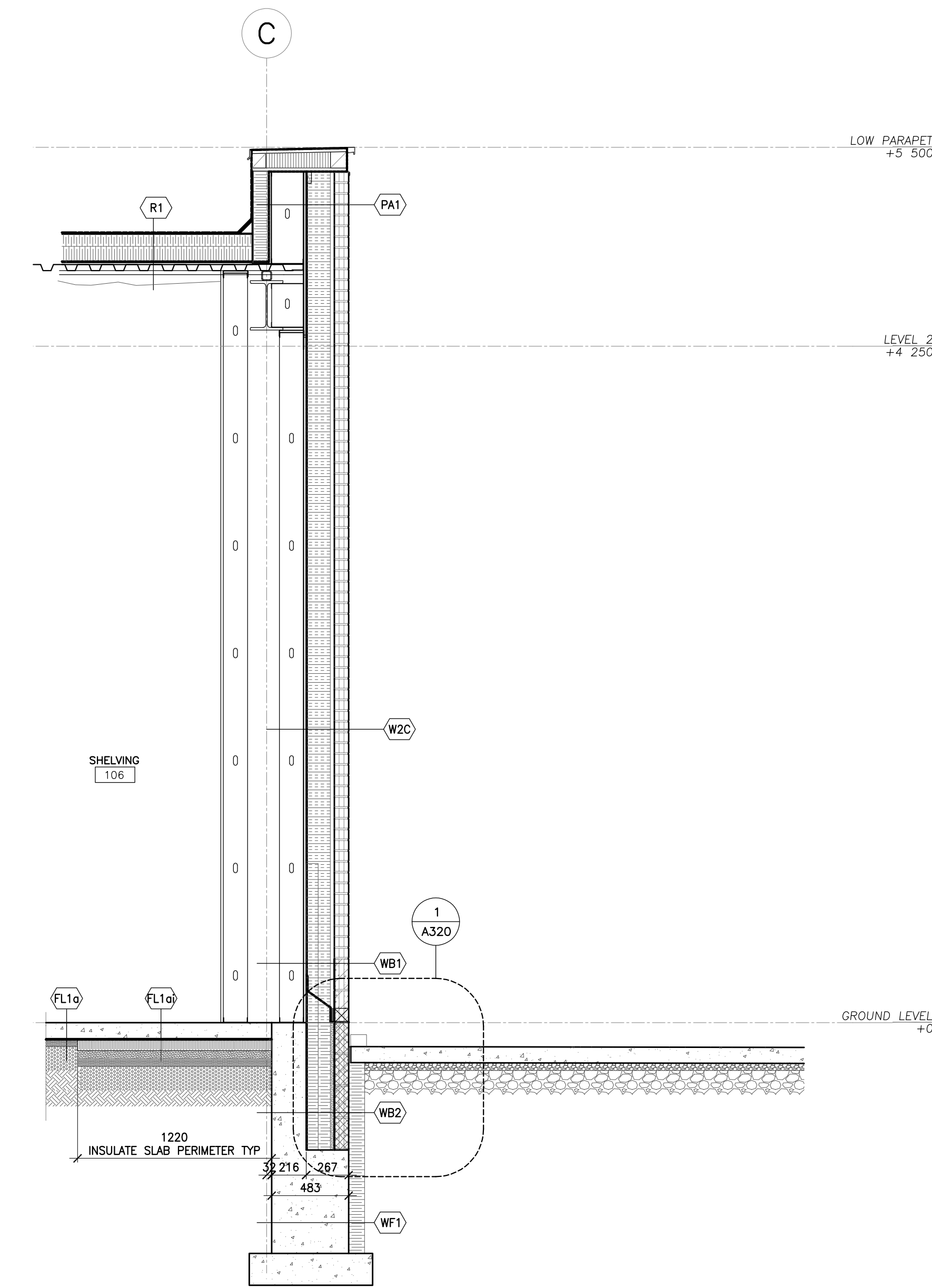
**1 NORTH-SOUTH BUILDING SECTION
1:100**



3 SOUTH WALL SECTION - CANOPY
1:25



2 EAST WALL SECTION - GARDEN CENTRE
1:25



1 EAST WALL SECTION
1:25

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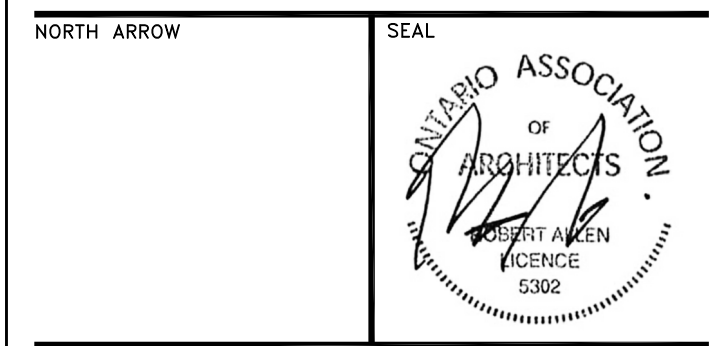
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TEL 416 487 8151

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E 705.856.4531
e: sayers@apsley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**WALL SECTIONS
EAST & SOUTH FACADES**

SCALE
1:25

DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER

A310

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
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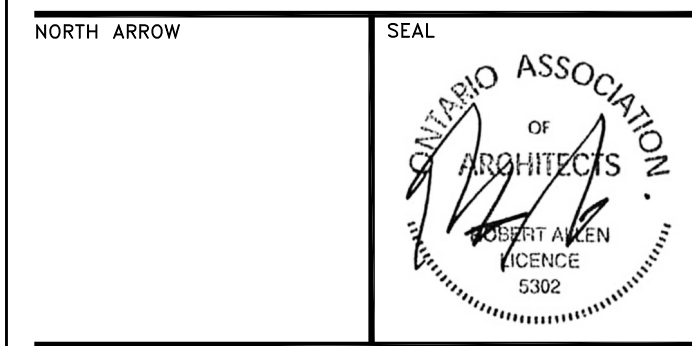
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ORANGEVILLE, ONTARIO, L9W 1K4
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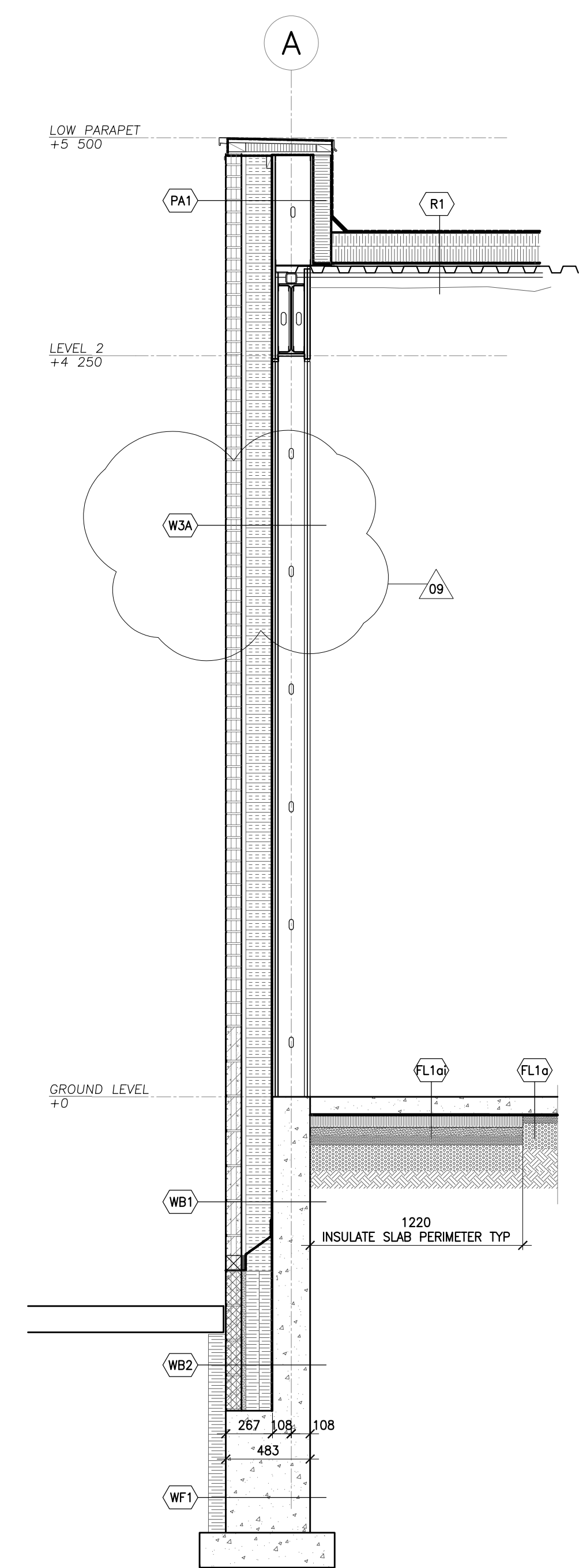
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**WALL SECTIONS
NORTH & WEST FACADES**

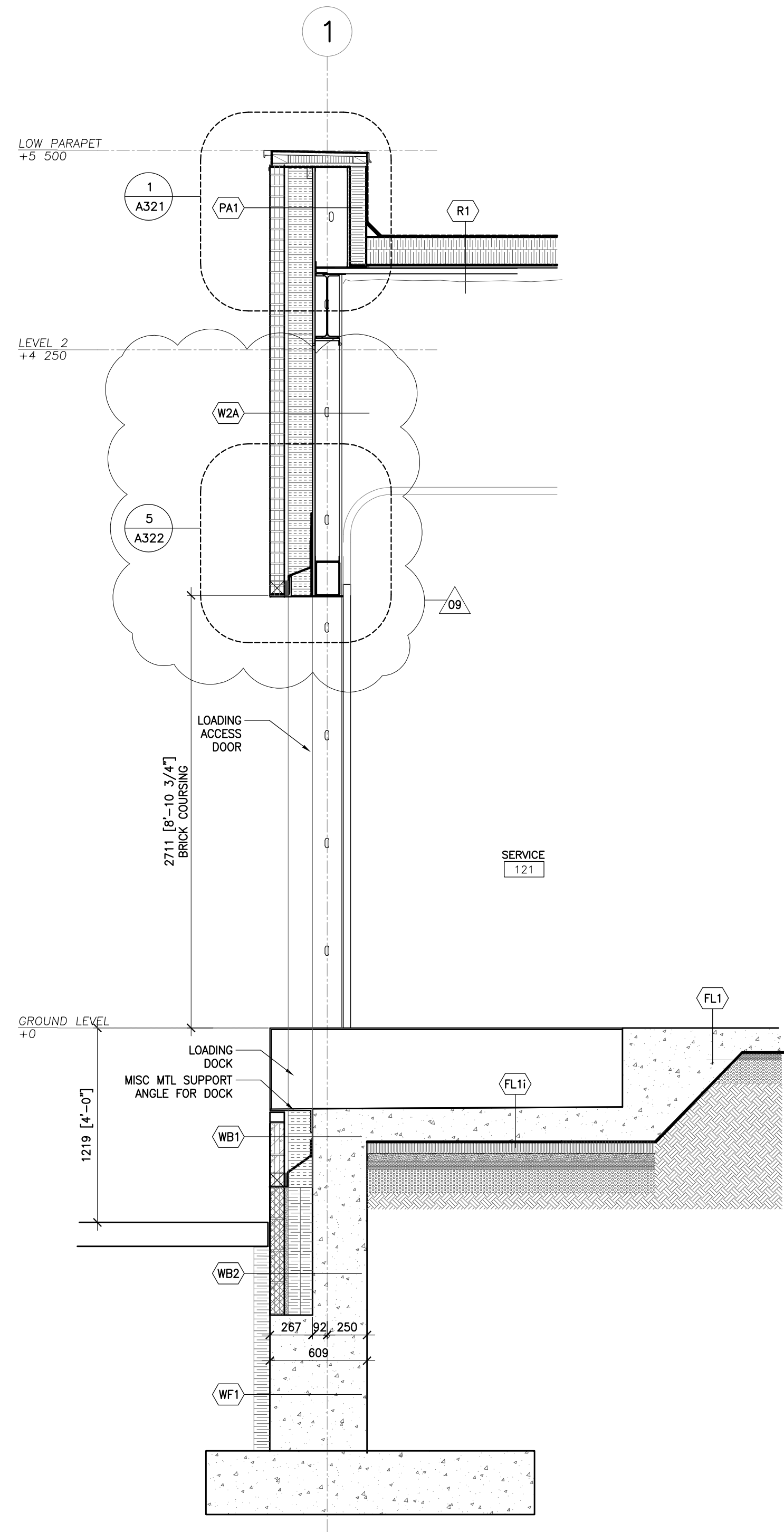
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DATE
JULY 15, 2022

PROJECT NUMBER
2102
DRAWING NUMBER

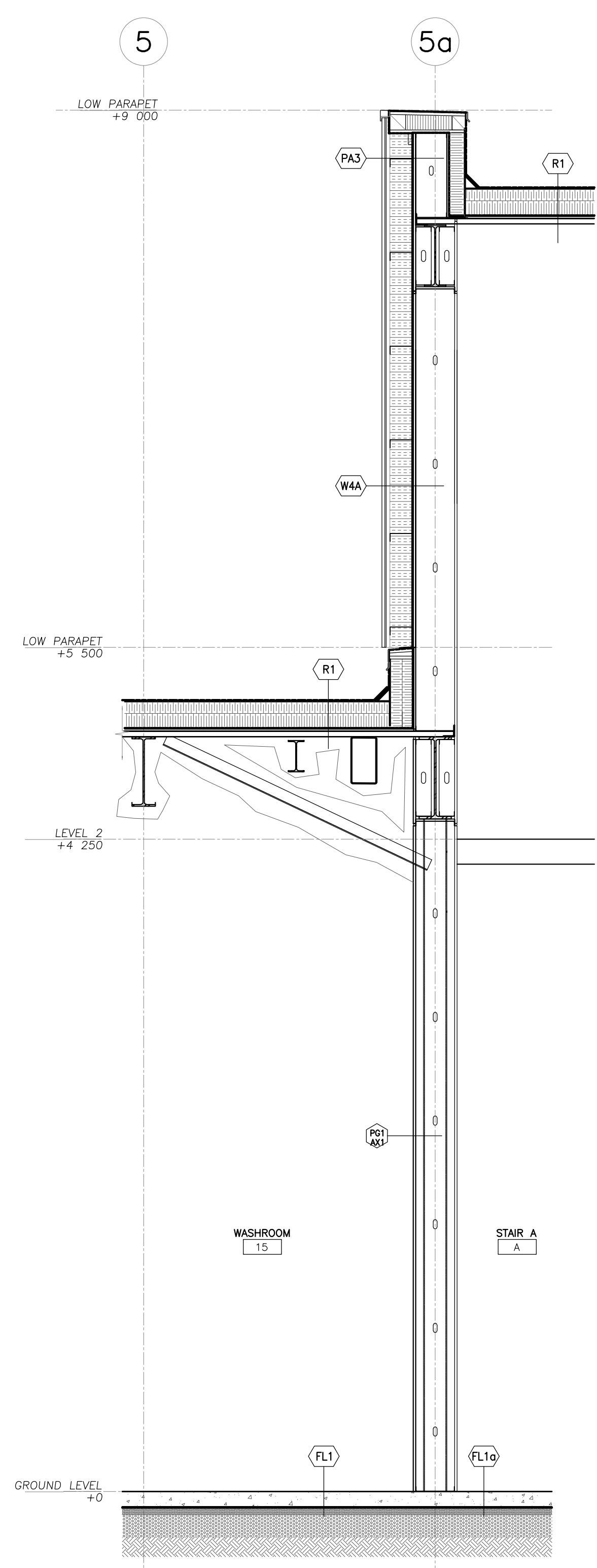
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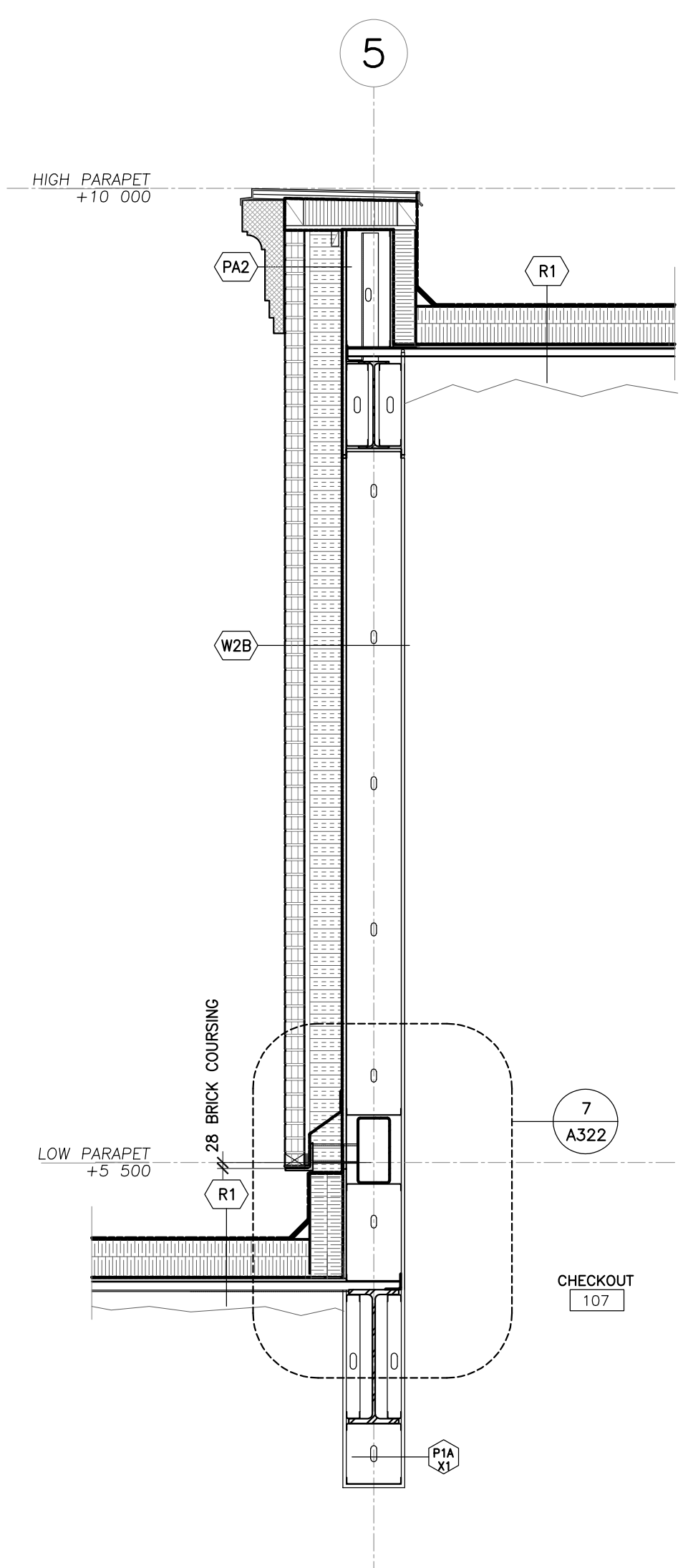
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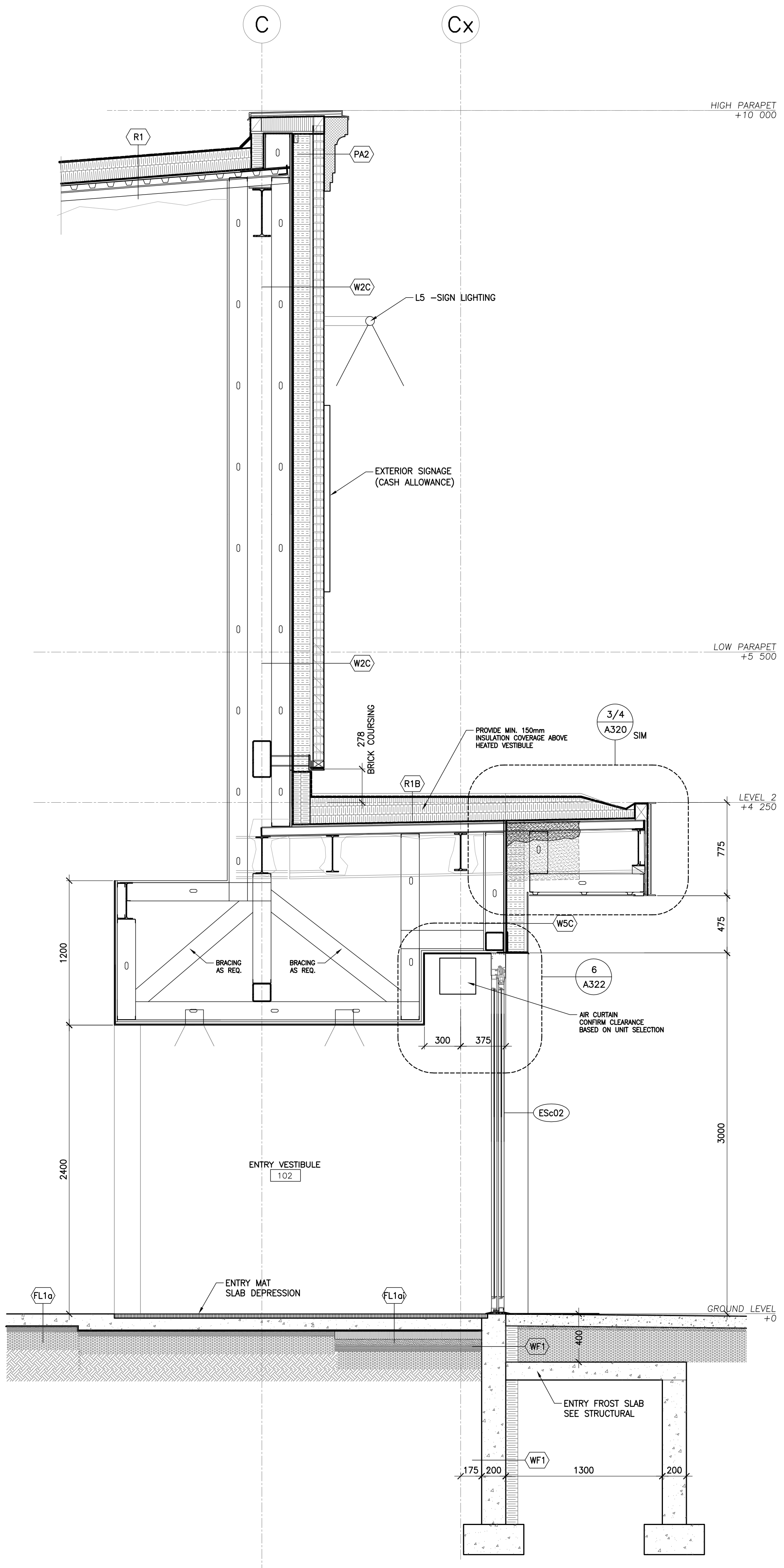
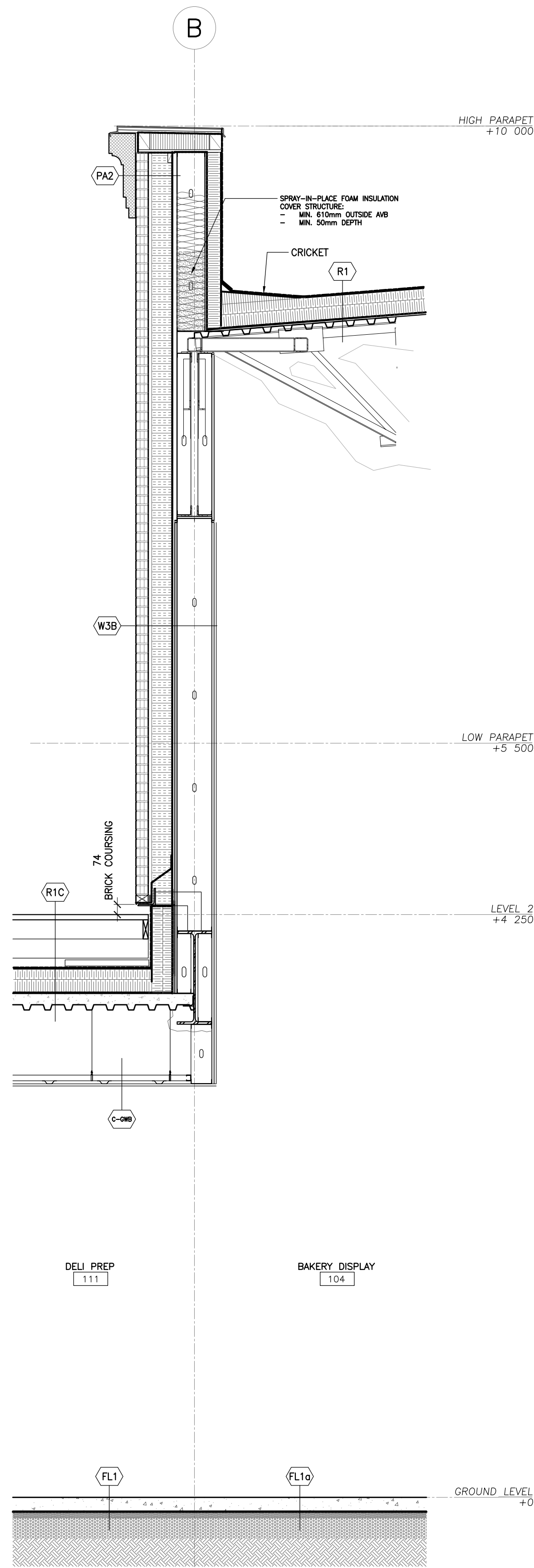
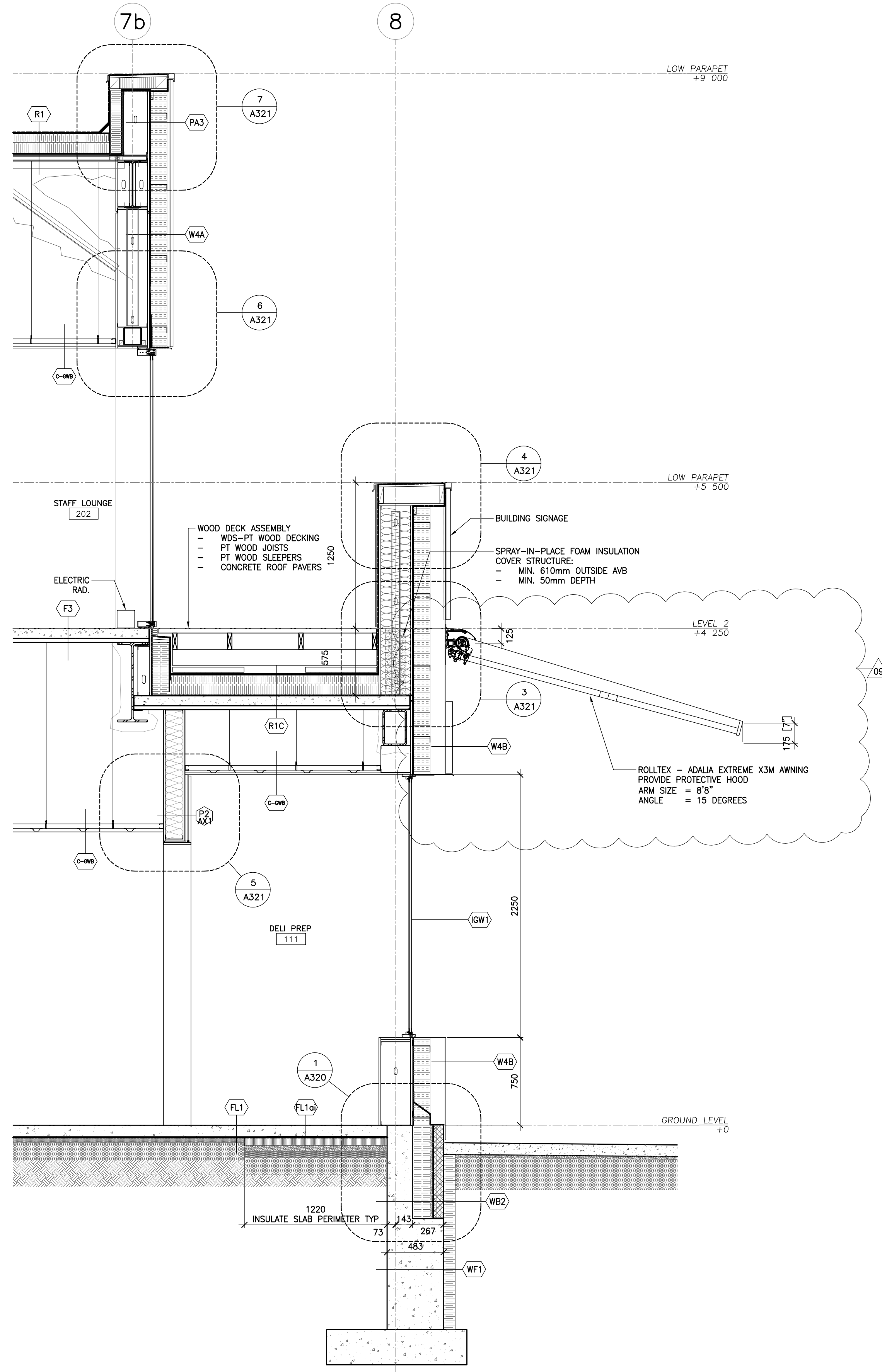
3 WALL SECTION - NORTH FACADE
1:25



2 WALL SECTION - NORTH STAIR
1:25



1 WALL SECTION - NORTH L2 BRICK WALL
1:25



3 SOUTH WALL SECTION - L2 SOUTH DECK
1:25

2 WEST WALL SECTION - L2 SOUTH DECK
1:25

1 EAST WALL SECTION - VESTIBULE
1:25

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e: sayers@apsley.ca

NORTH ARROW

SEAL
ONTARIO ASSOCIATION
OF ARCHITECTS
REGISTERED ARCHITECT
LICENSE 53602

PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

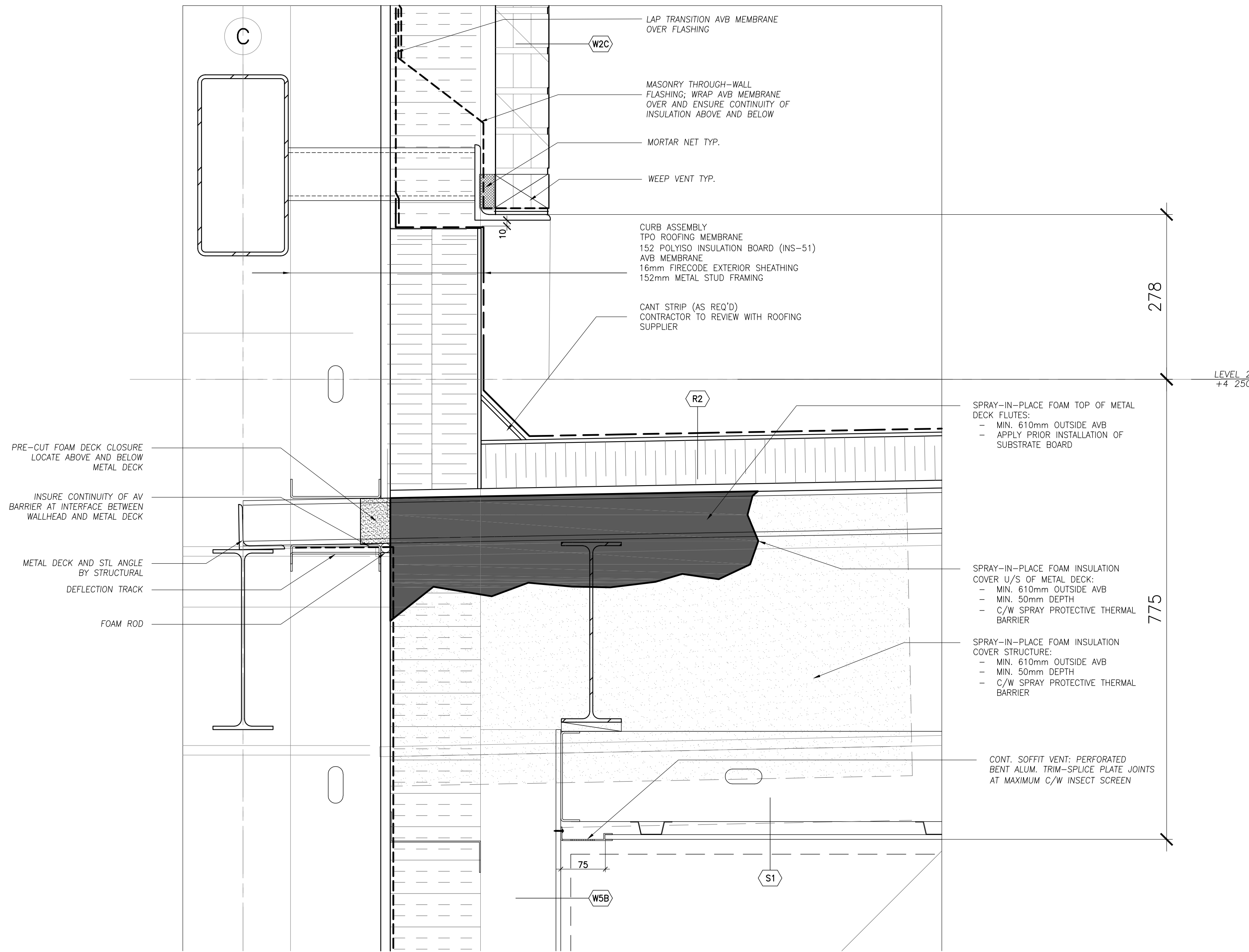
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WALL SECTIONS

SCALE
1:25

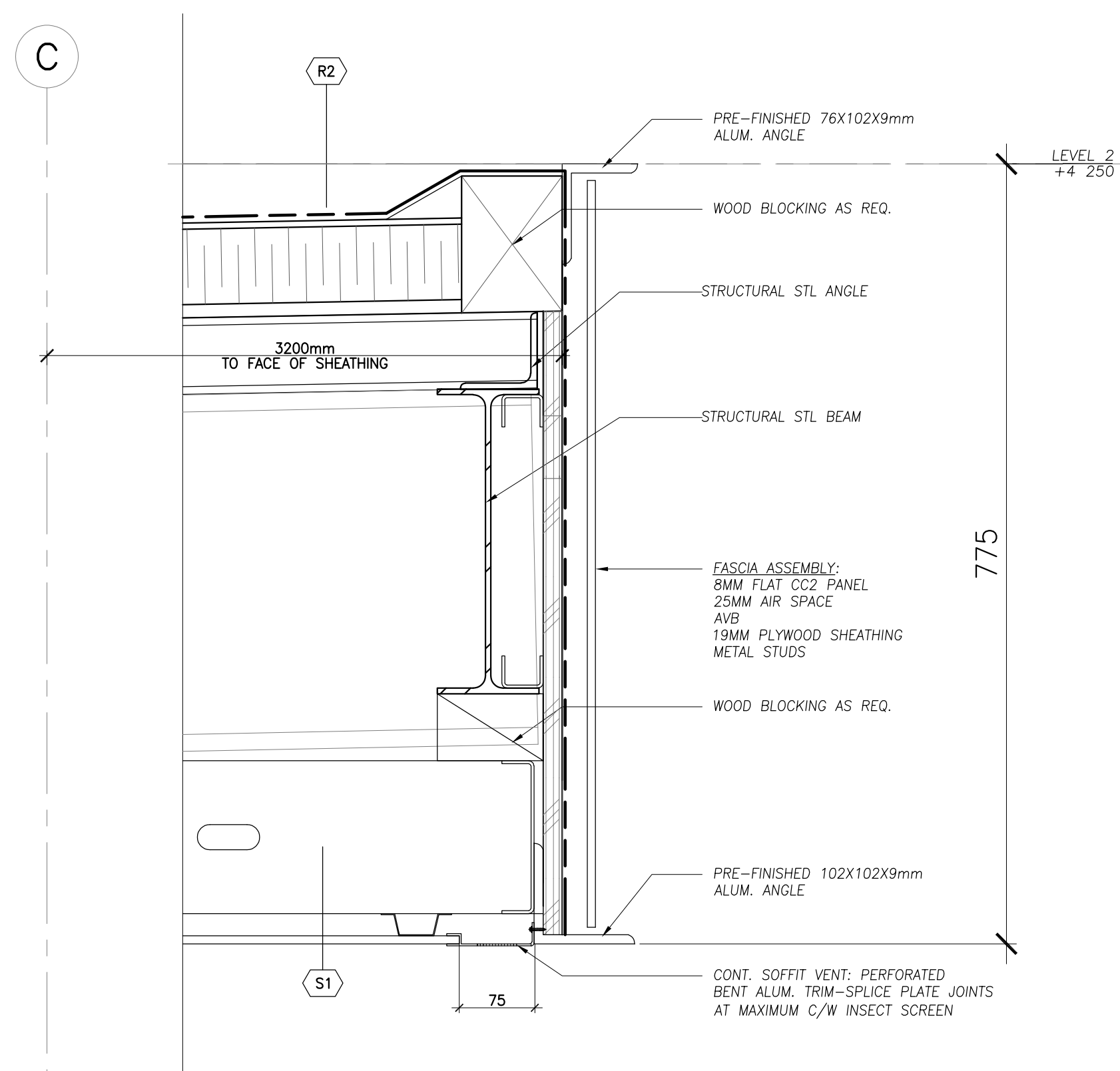
DATE
JULY 15, 2022

PROJECT NUMBER
2102

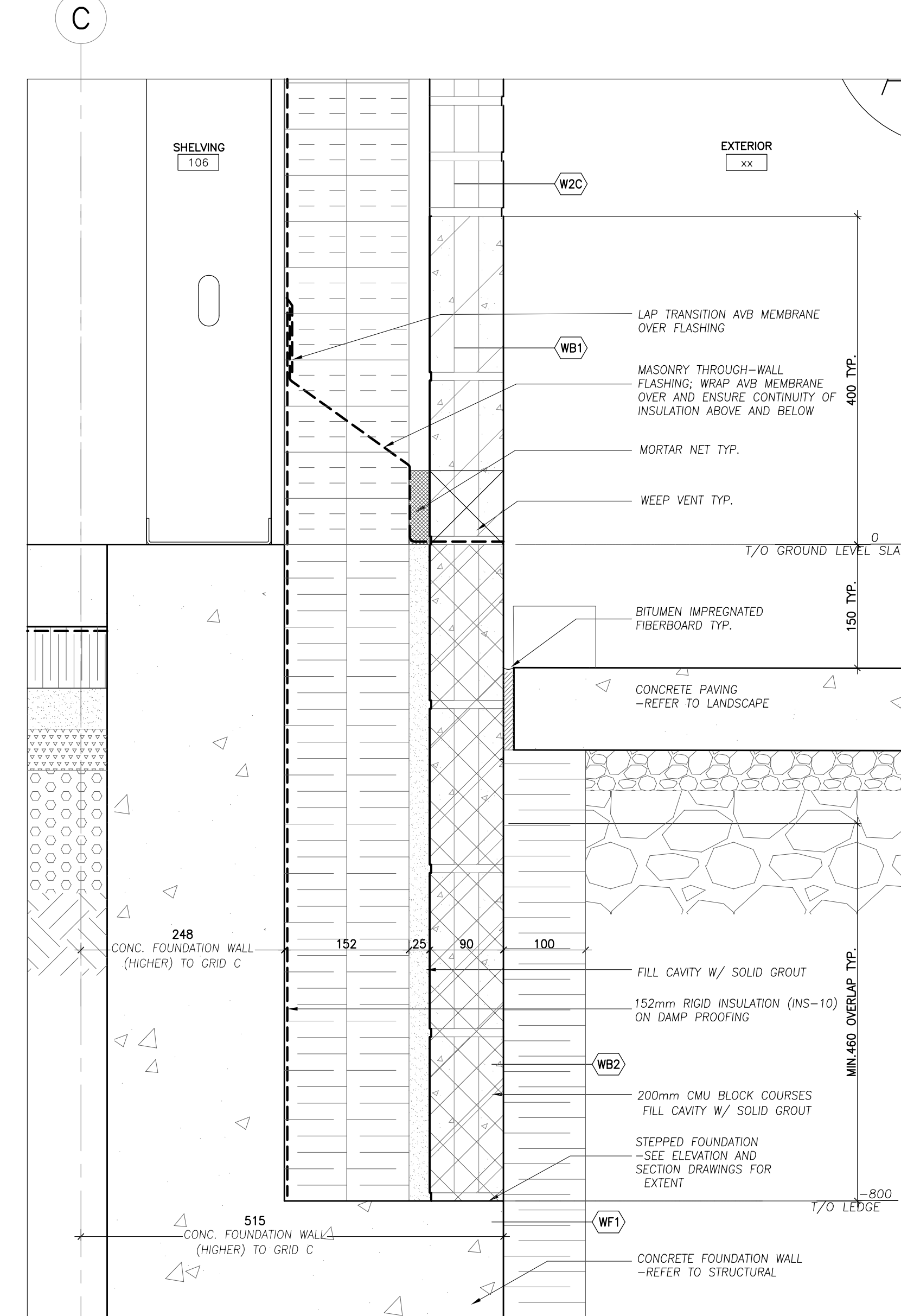
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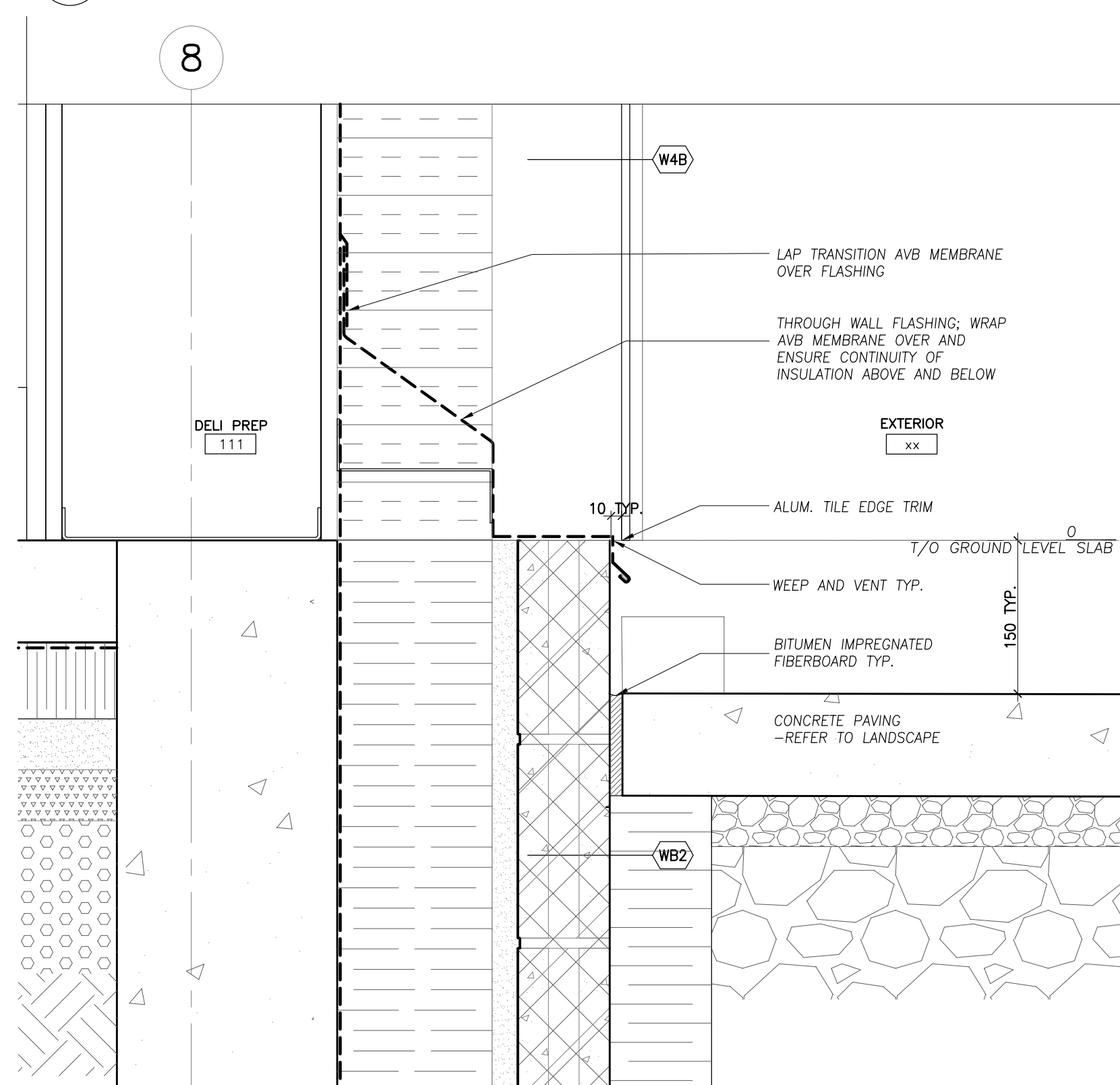
4 SECTION DETAIL - TYP GUTTER
1:5



3 SECTION DETAIL - EAST CANOPY EDGE
1:5



1 SECTION DETAIL - TYP. BRICK BASE
1:100



2 SECTION DETAIL - TYP CC BASE TRANSITION
1:5

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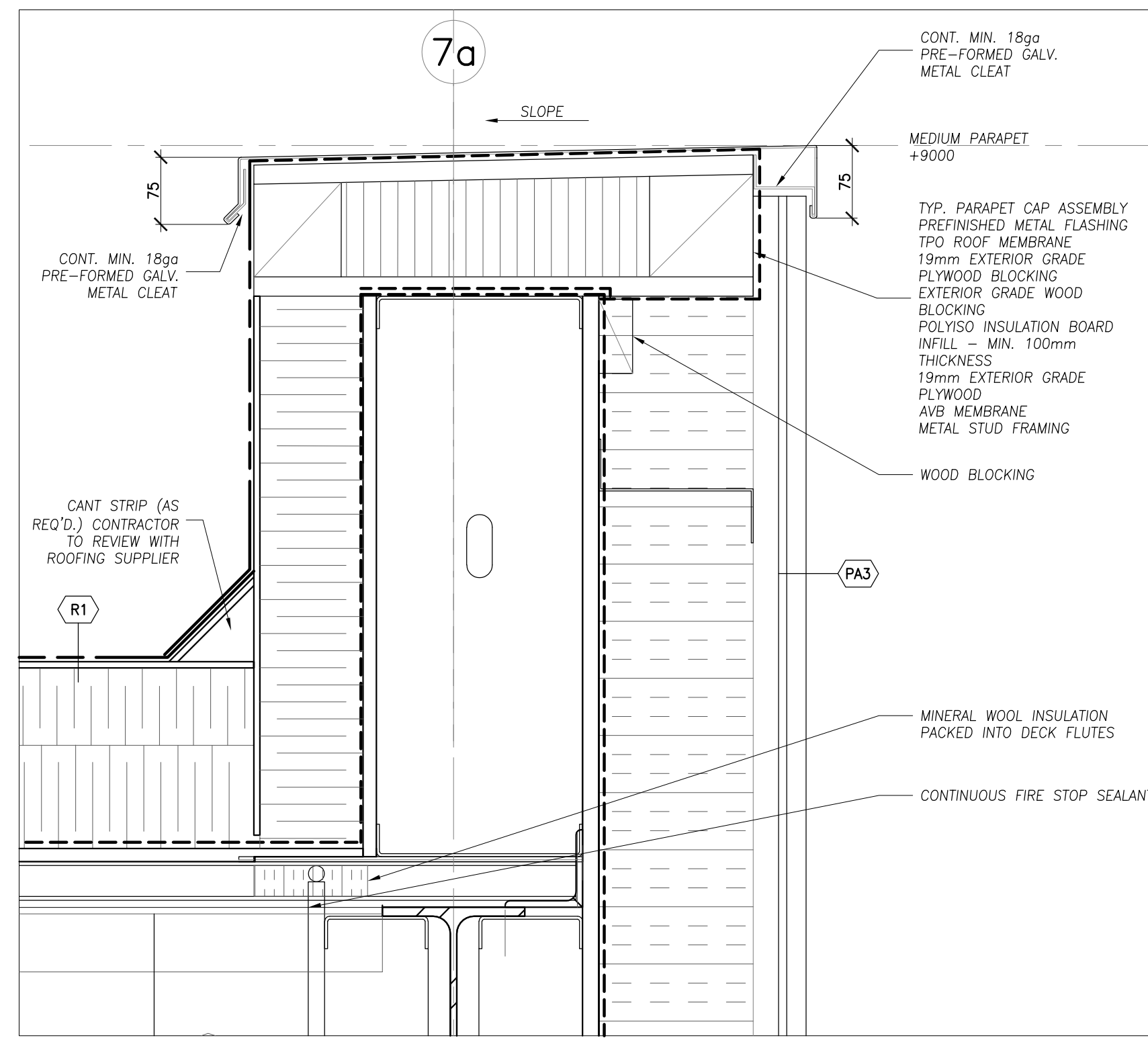
SEAL
ASSOCIATION OF ARCHITECTS
REGISTERED ARCHITECT
5362

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

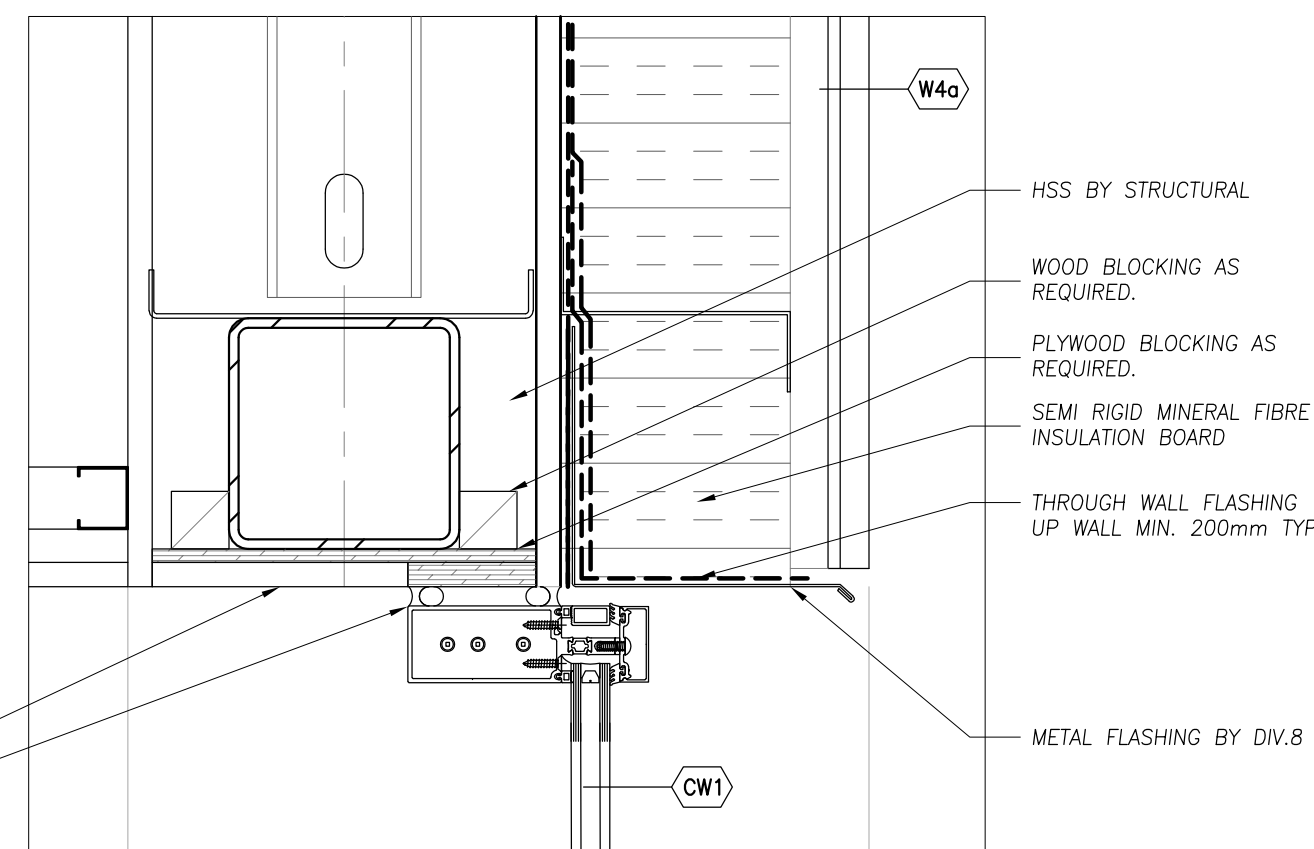
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DATE
JULY 15, 2022

PROJECT NUMBER
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DRAWING NUMBER

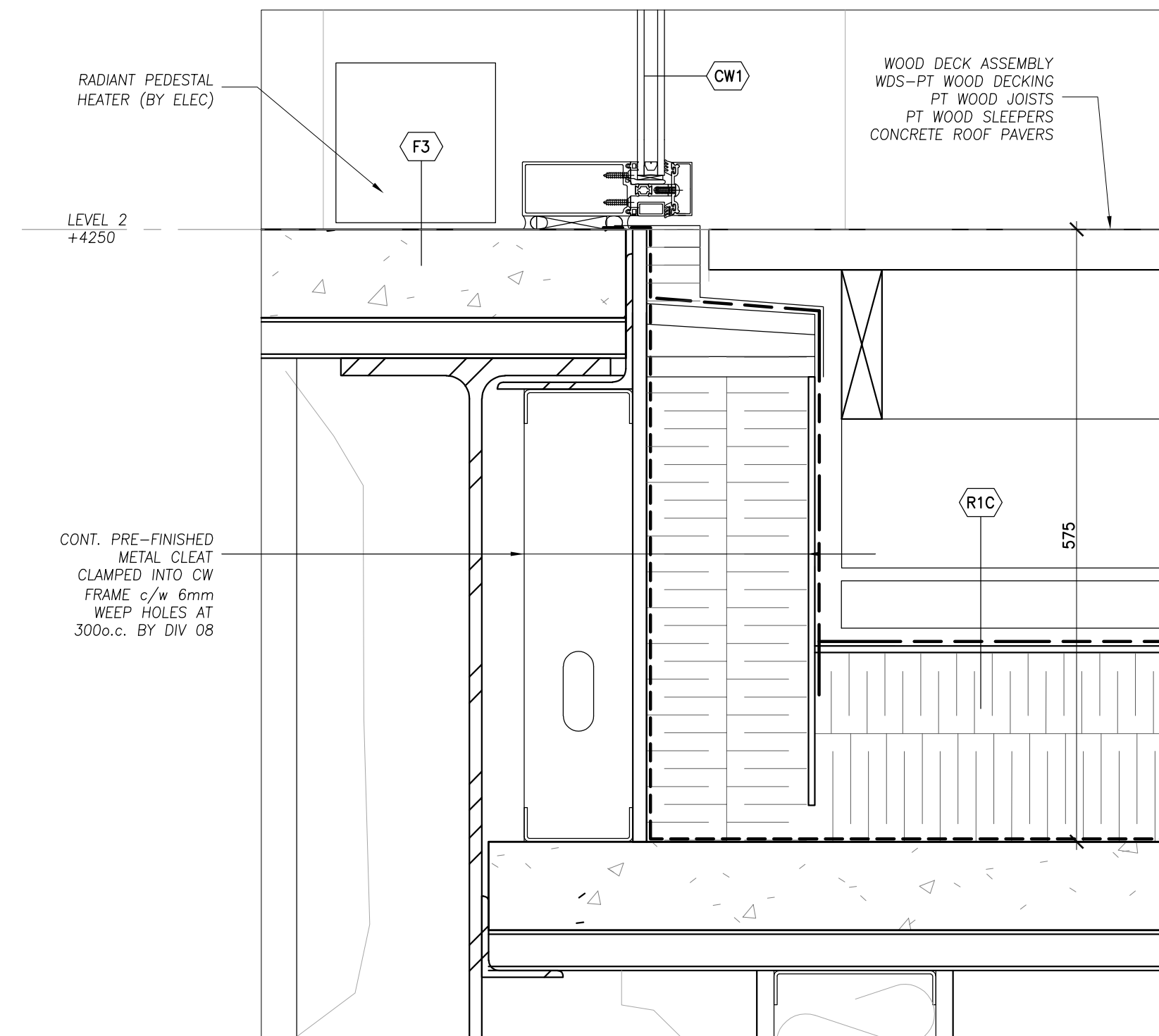
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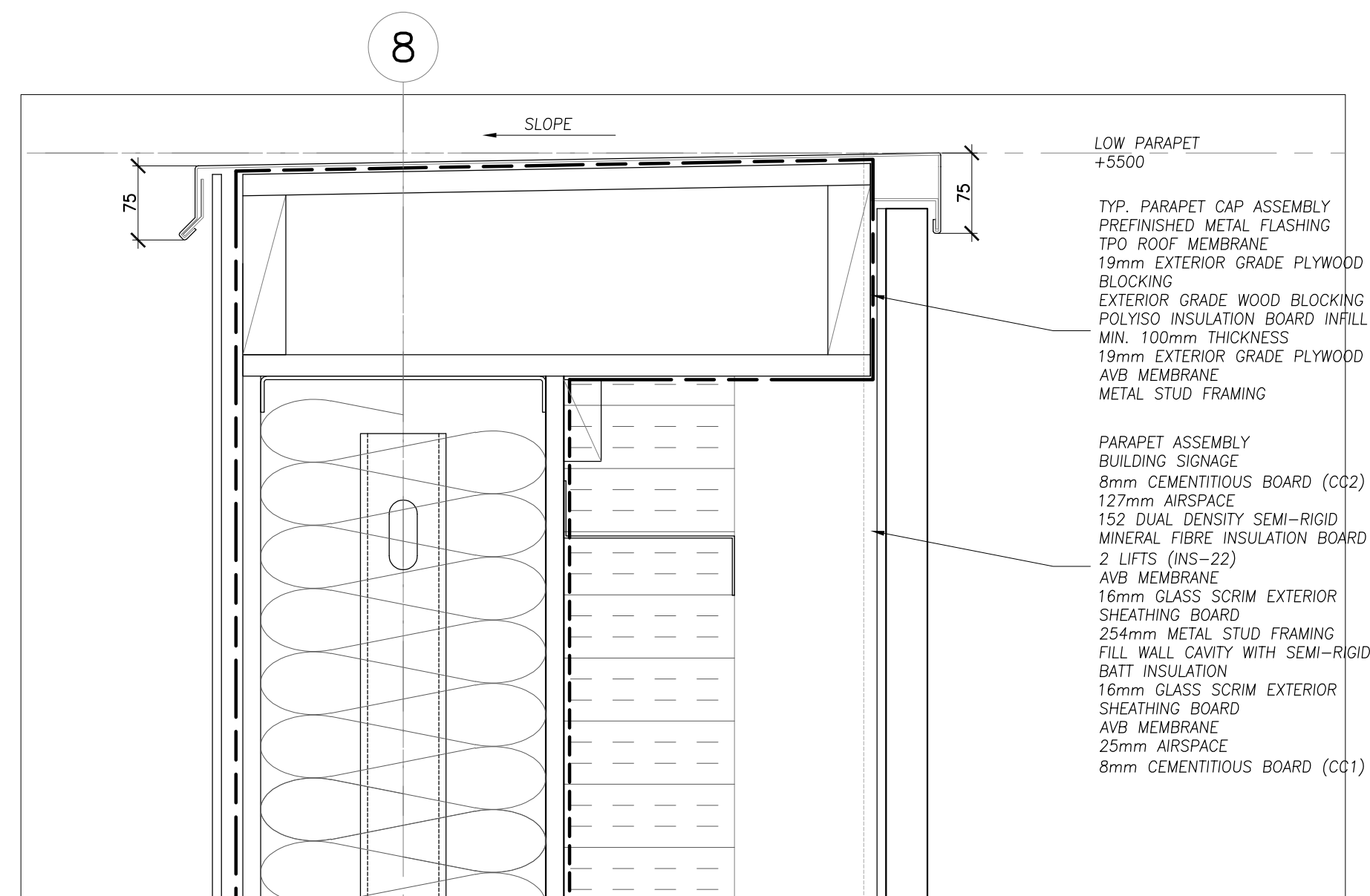
7 SECTION DETAIL – SOUTH CC1 PARAPET
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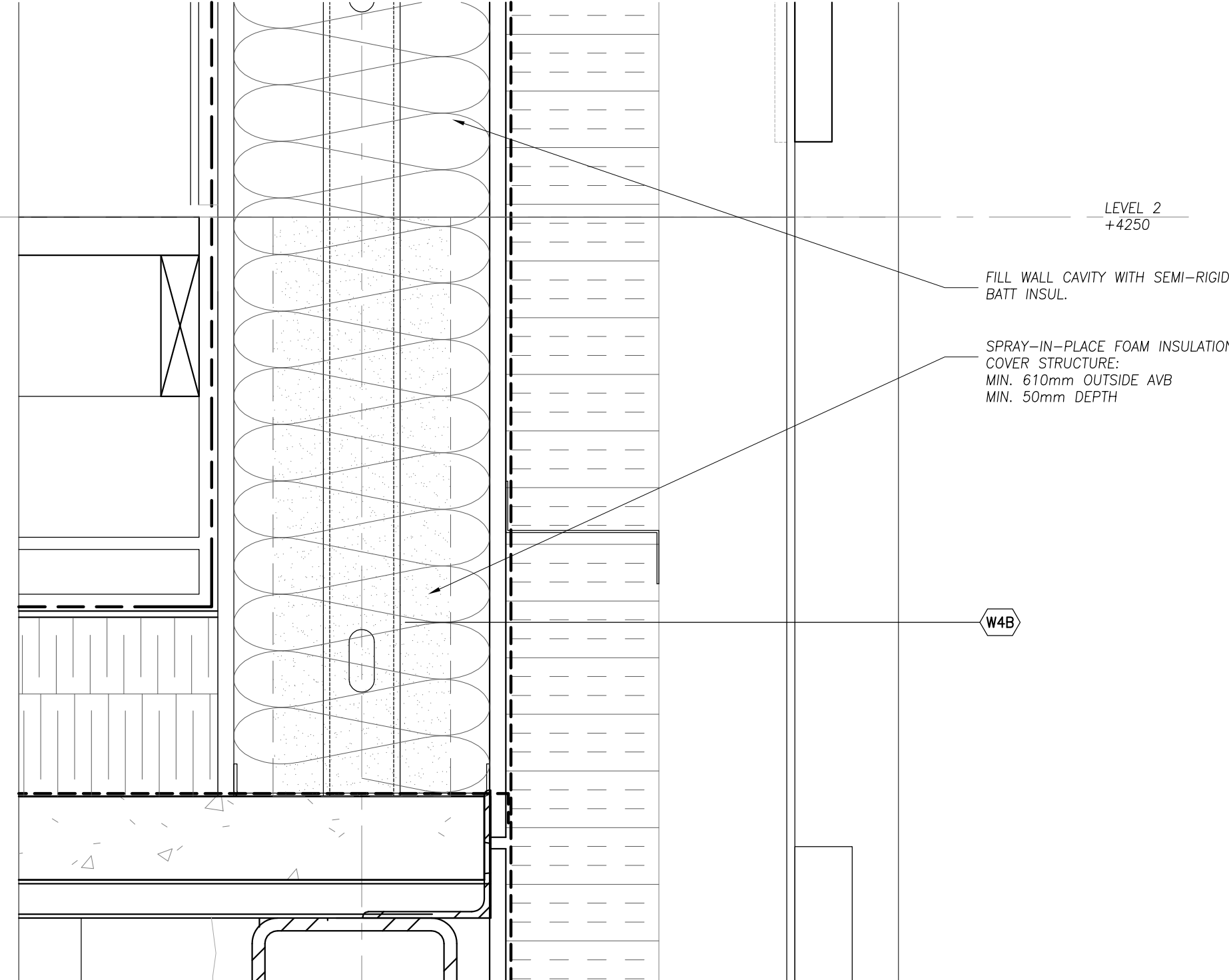
6 SECTION DETAIL – SOUTH DECK DOOR HEAD
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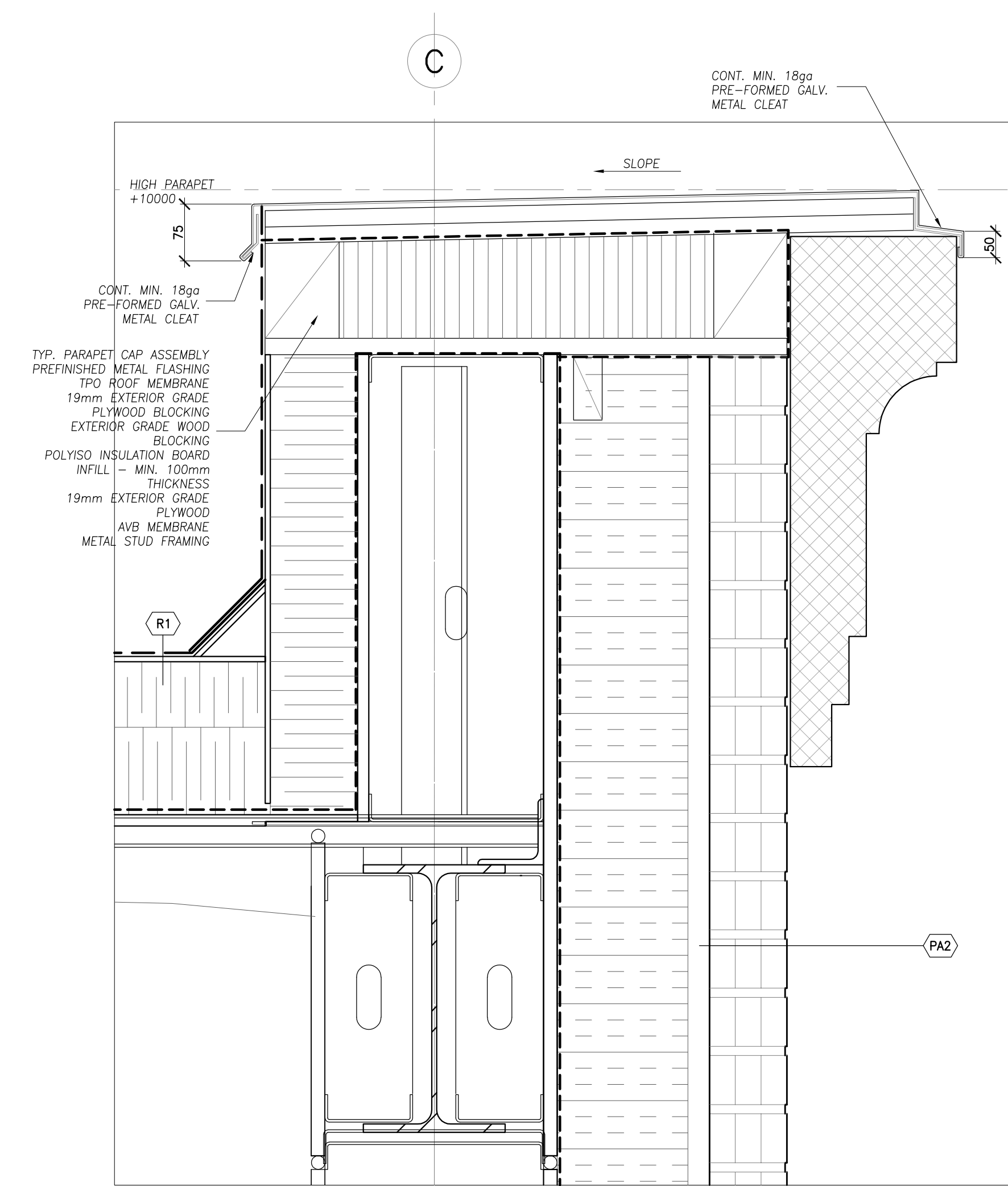
5 SECTION DETAIL – SOUTH DECK BASE
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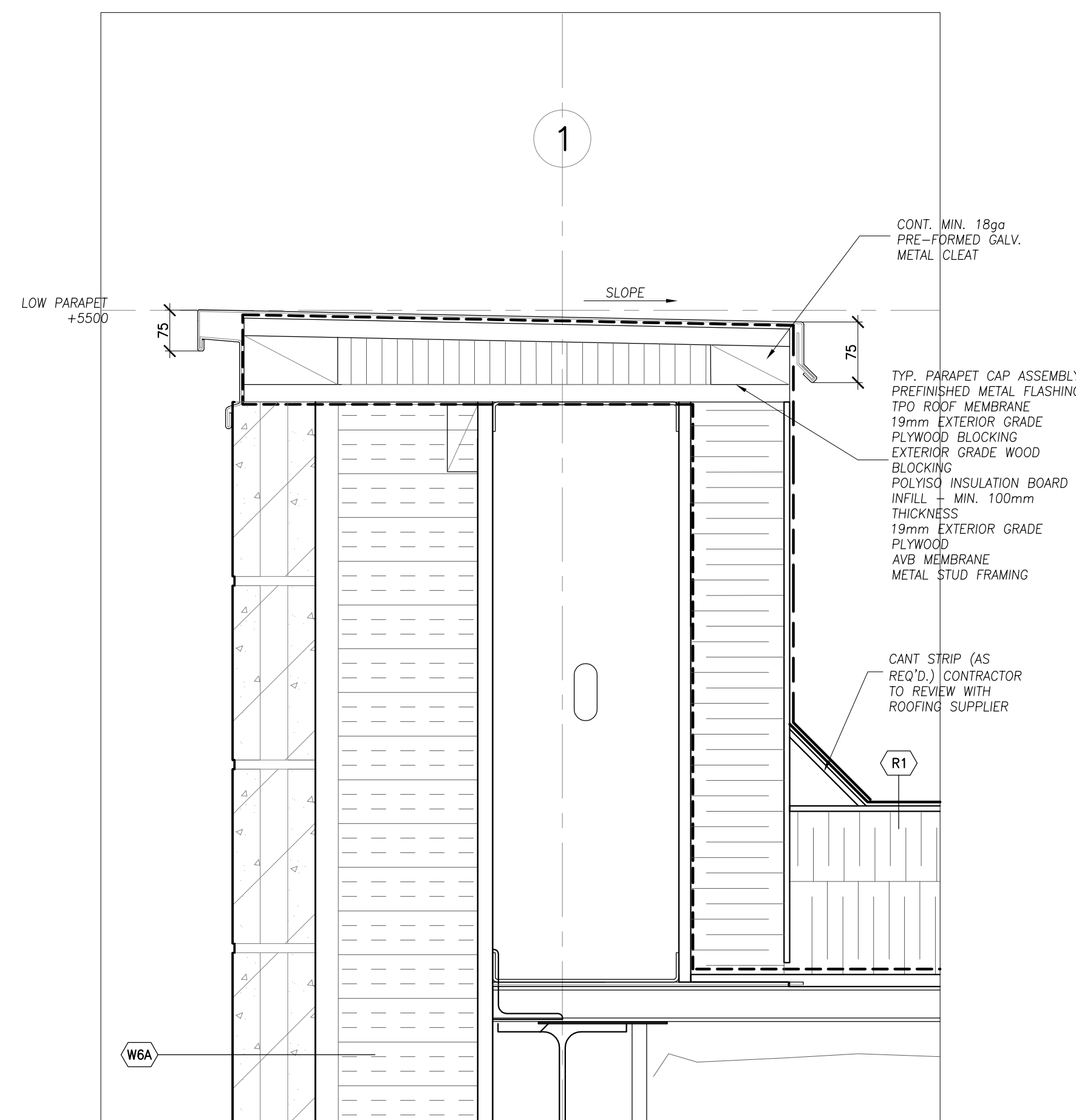
4 SECTION DETAIL – SOUTH DECK PARAPET
1:5



3 SECTION DETAIL – SOUTH DECK BASE
1:5



2 SECTION DETAIL – SOUTH BRICK PARAPET
1:5



1 SECTION DETAIL – NORTH PARAPET
1:5

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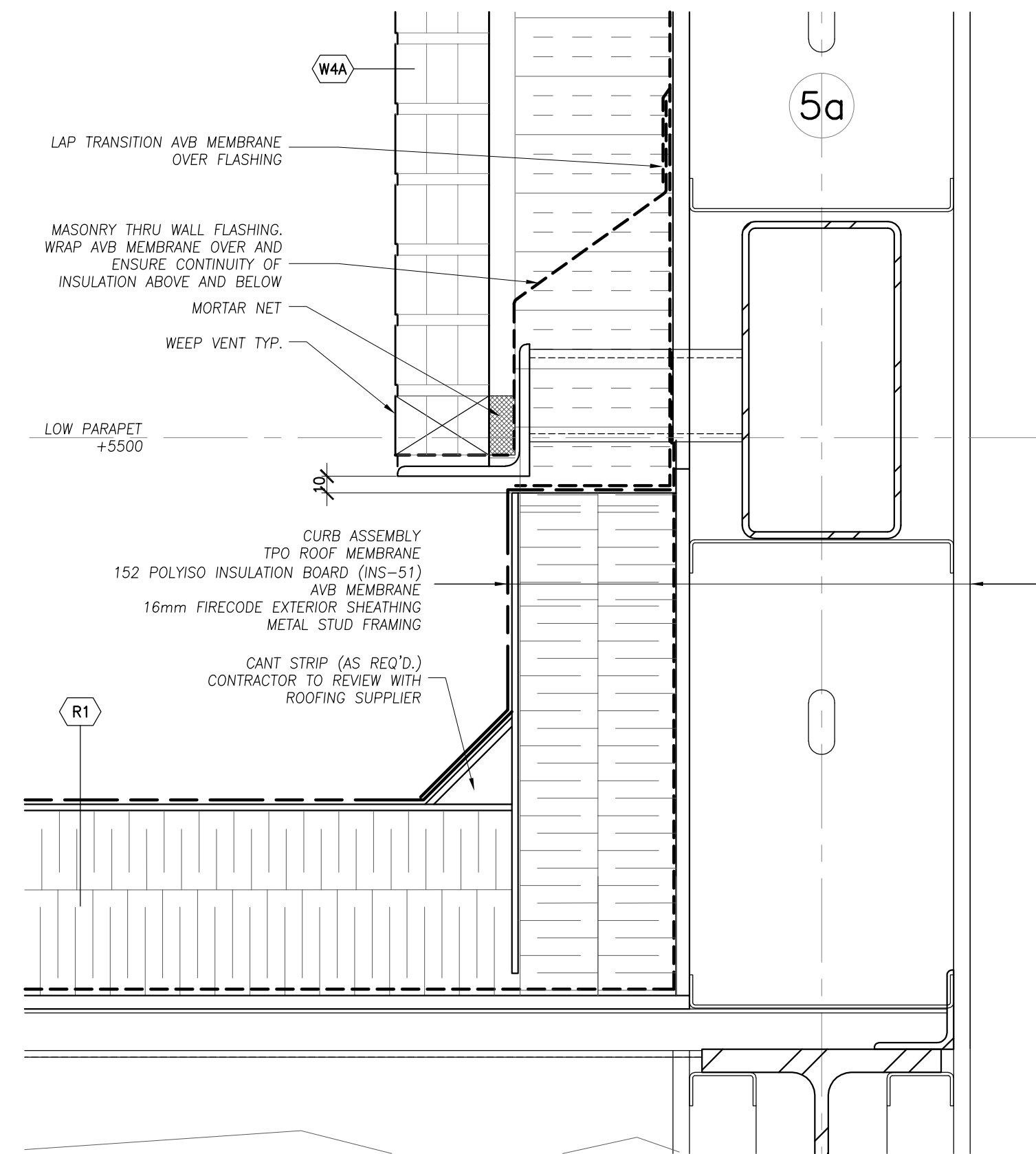
NORTH ARROW

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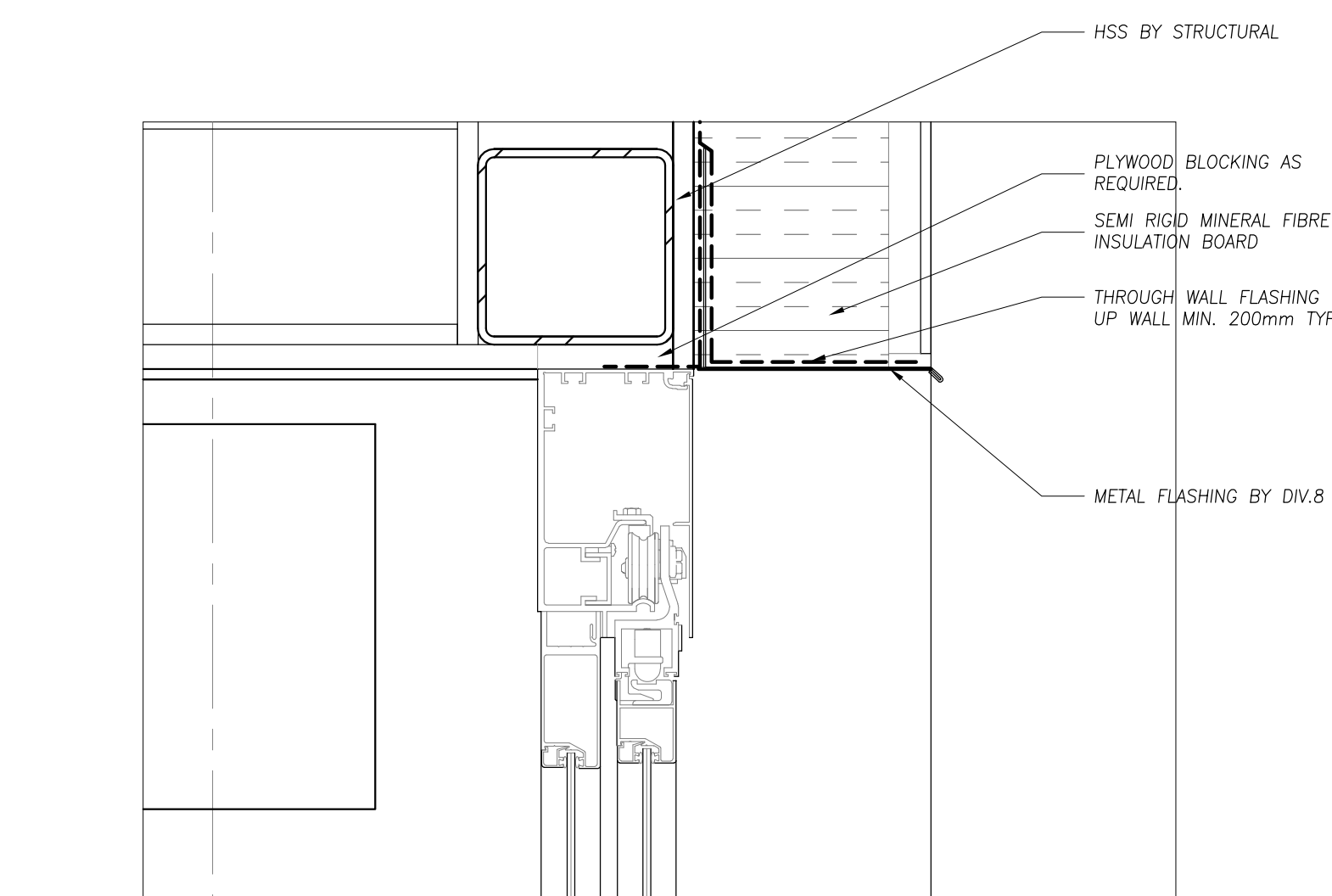
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
SECTION DETAILS
SCALE
1:5
DATE
JULY 15, 2022

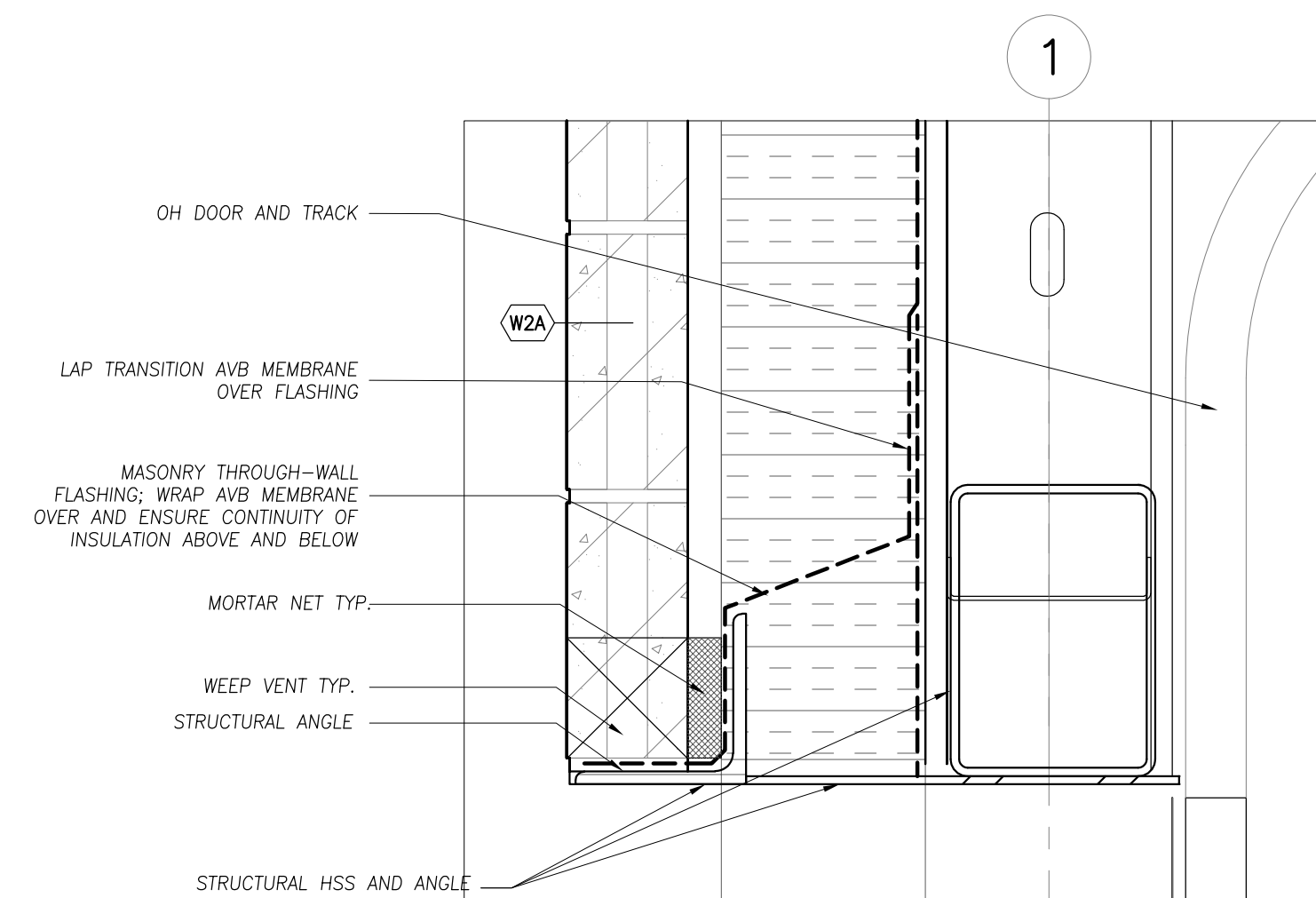
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DRAWING NUMBER



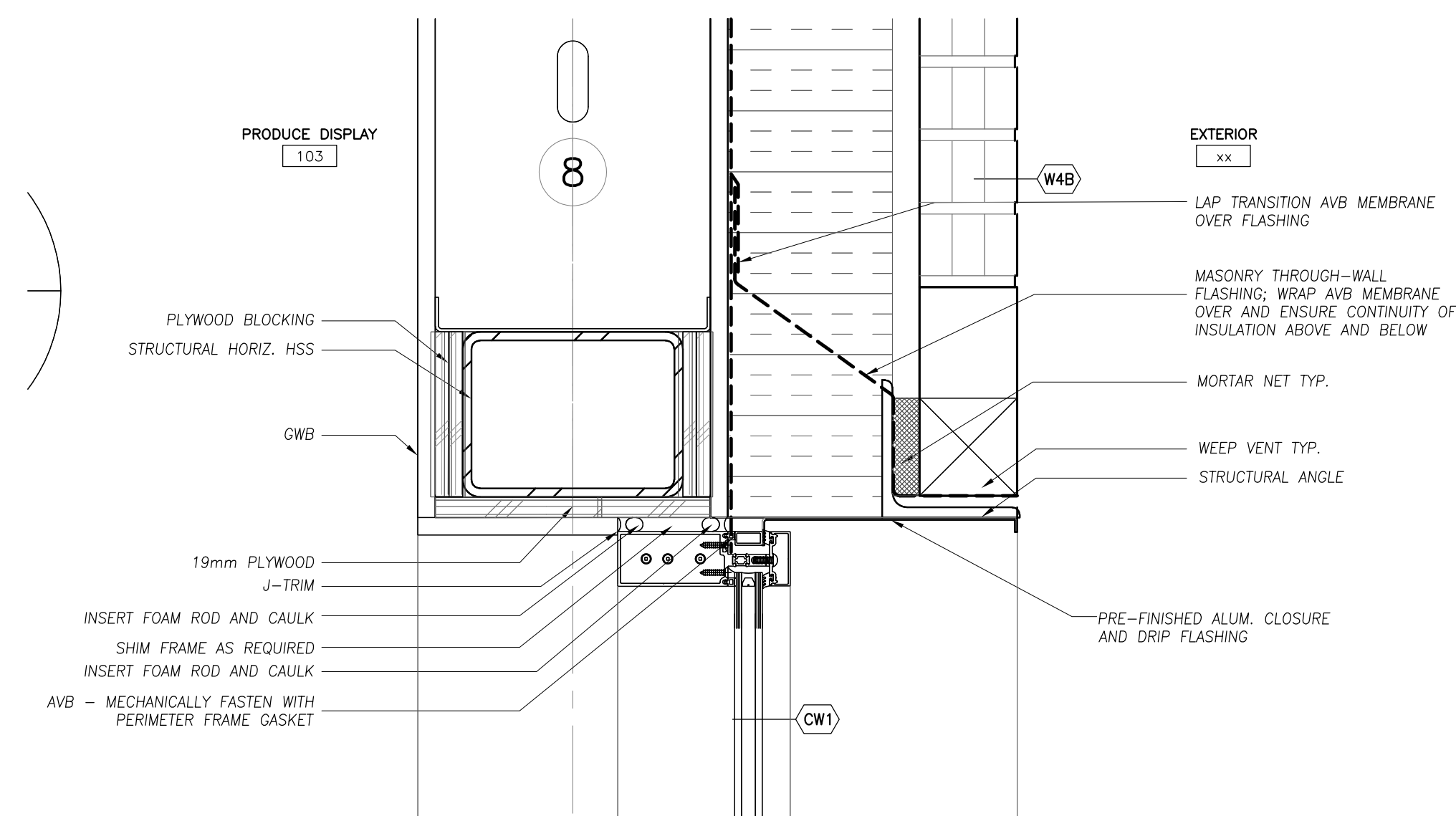
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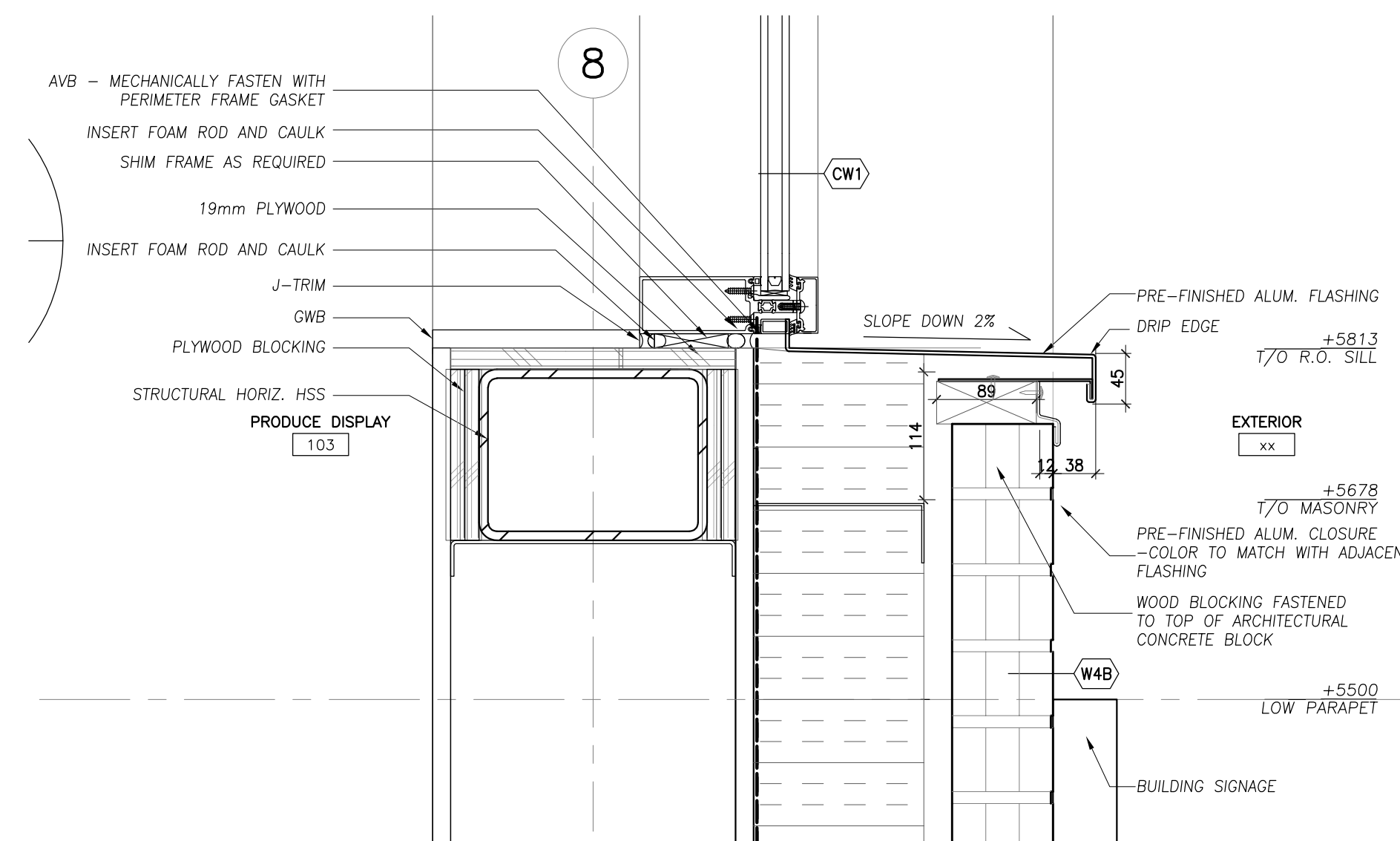
4 SECTION DETAIL - AUTO DOOR ENTRY HEAD
1:5



3 SECTION DETAIL - DELIVERY DOOR HEAD DETAIL
1:5



2 SECTION DETAIL - CW1 HEAD
1:5



1 SECTION DETAIL - CW1 SILL
1:5

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ORANGEVILLE, ONTARIO, L9W 1K4
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132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL
ASSOCIATION OF ARCHITECTS
REGISTERED ARCHITECT
5362

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE
WALL SECTIONS
NORTH FACADES

SCALE
1:25
DATE
JULY 15, 2022

PROJECT NUMBER
2102
DRAWING NUMBER

A322

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	REVISED SPA	210809	AB
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3	REVISION TO BUILDING PERMIT	220315	AB
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MJMA

maclennan jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS

229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS

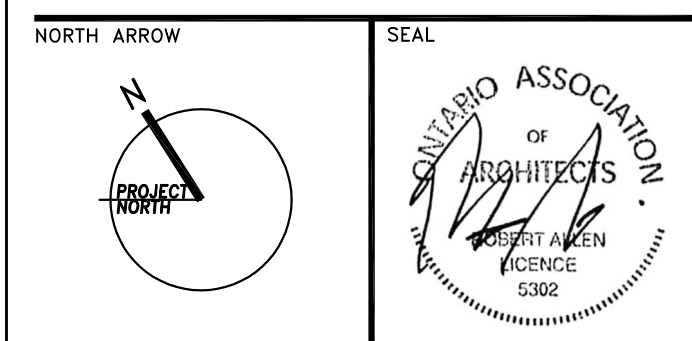
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON
MECHANICAL AND ELECTRICAL ENGINEERS

1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca



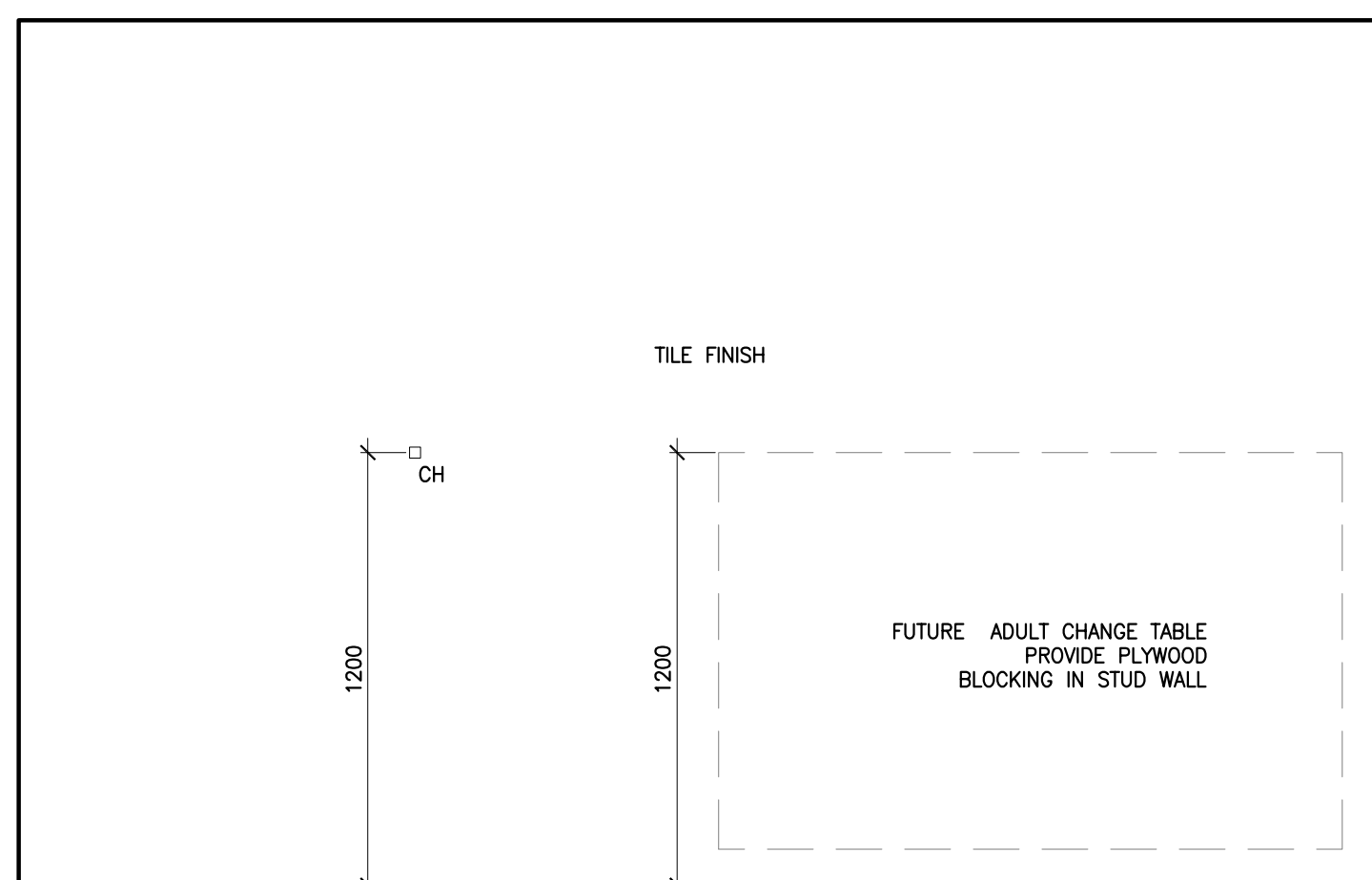
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLLEIGH STREET, APSLEY**

DRAWING TITLE
**UNIVERSAL WC
ENLARGED PLAN**

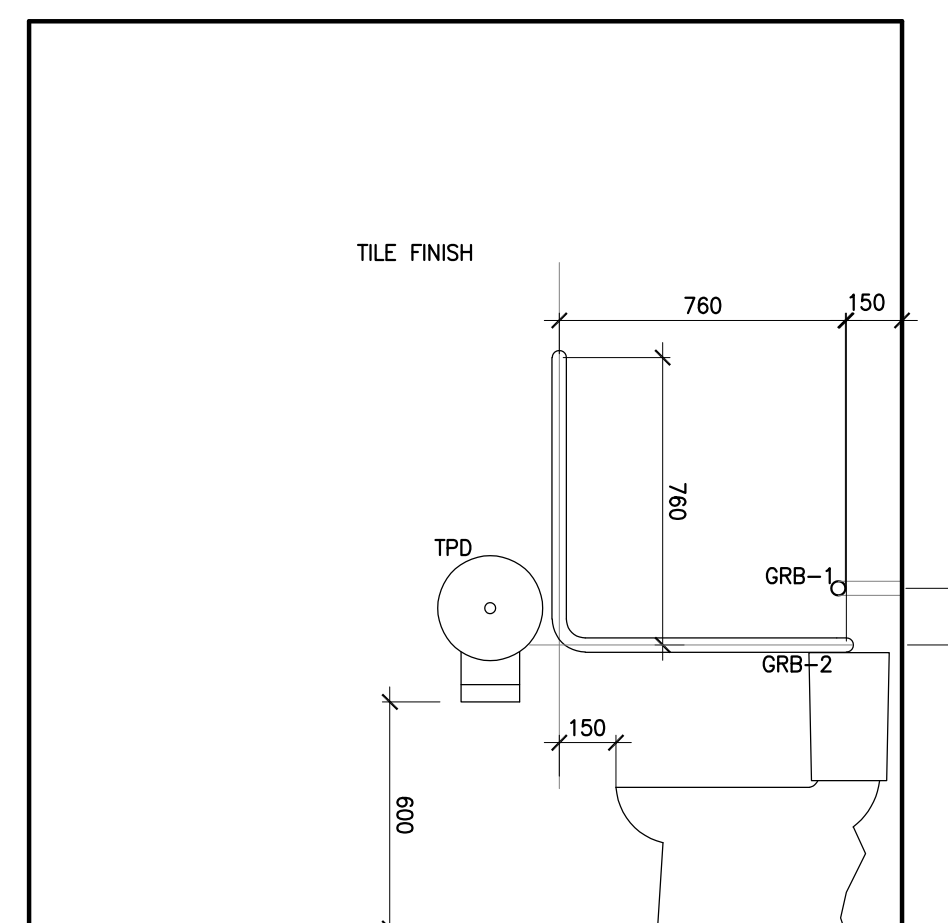
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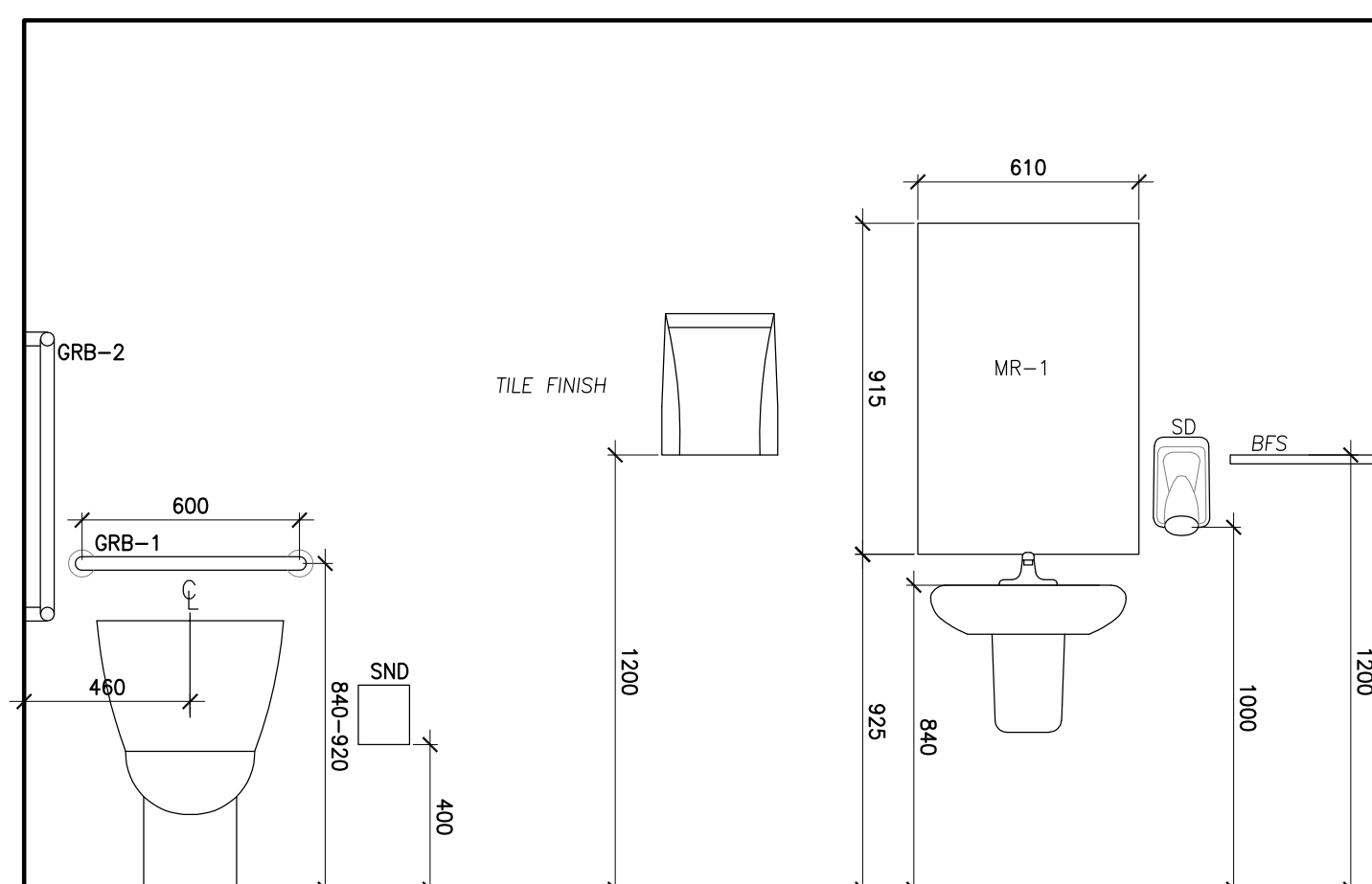
A400



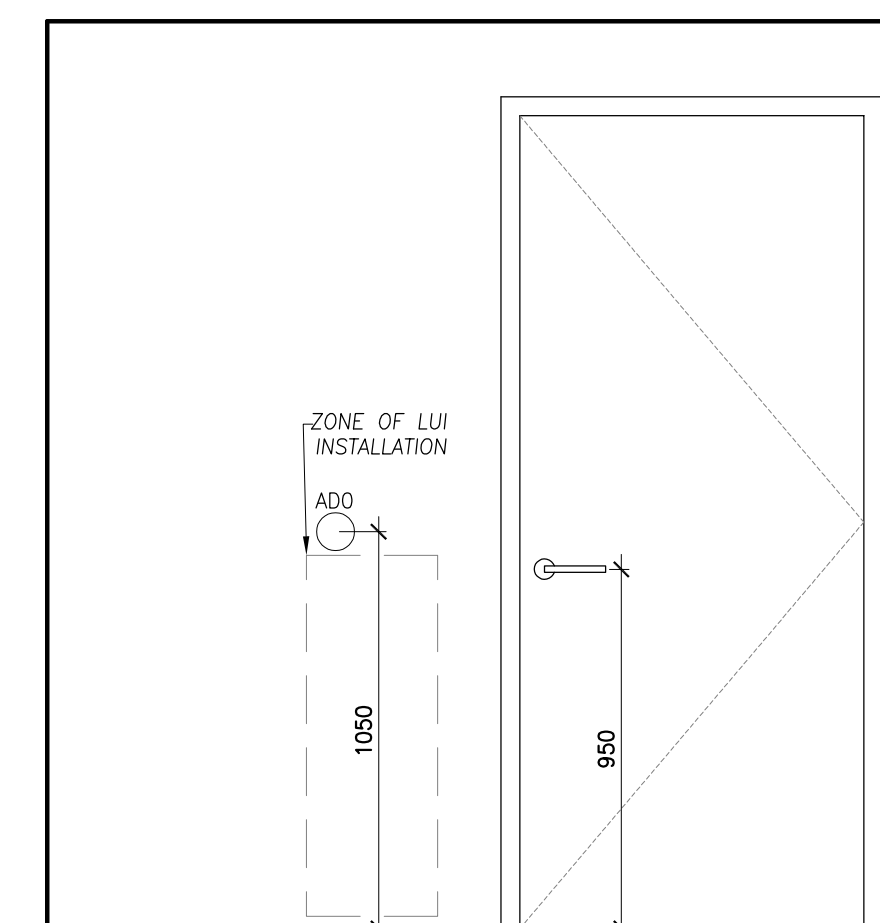
5 INT. ELEVATION - UNI. WC SOUTH
1:20



4 INT. ELEVATION - UNI. WC WEST
1:20



3 INT. ELEVATION - UNI. WC NORTH
1:20



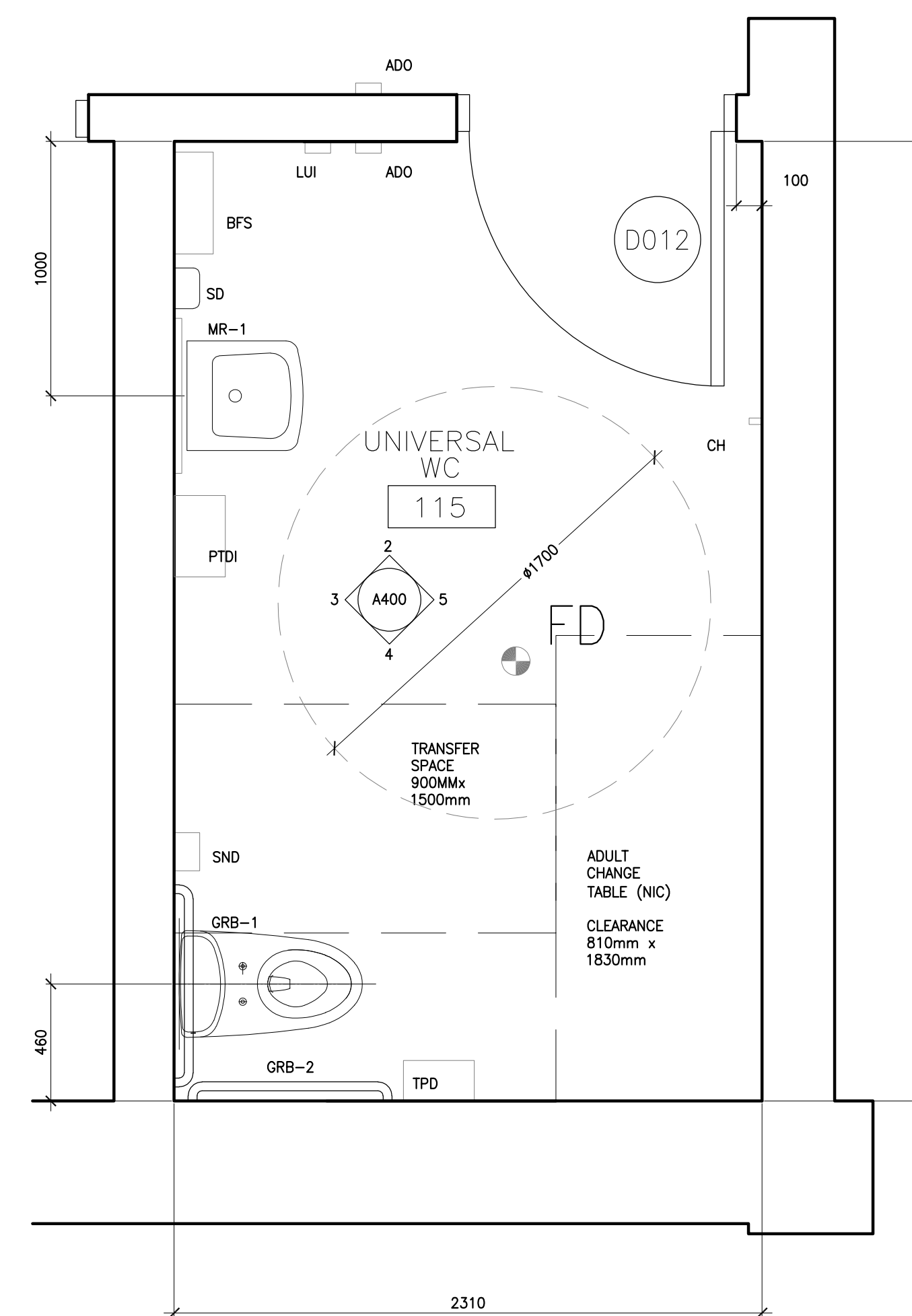
2 INT. ELEVATION - UNI. WC EAST
1:20

LEGEND

ADO	AUTOMATIC DOOR OPERATOR
BF	BARRIER FREE
BFS	SST BOTTLE FILL SHELF (BOBRICK B-295x16)
BFCN	FOLD DOWN BARRIER FREE ADULT CHANGE TABLE (NIC)
CH	COAT HOOK (NIC)
FD	FLOOR DRAIN
GRB	UNIVERSAL WC GRAB BARS GRB-1 ● HORIZONTAL BAR GRB-2 ● 90 DEGREE BAR
LUI	LIGHT-UP INDICATOR
MR	MIRRORS - TEMPERED MR-1 610mm X 910mm
PTDI	PAPER TOWEL DISPENSER (N.I.C.)
SCR	SHOWER CURTAIN, RINGS, ROD
SD	SOAP DISPENSER (N.I.C.)
SHW	SHOWER
SNR	SAN. NAPKIN RECEPTOR (N.I.C.)
TPD	TOILET PAPER DISPENSER (N.I.C.)
WD	WASTE DISPOSAL BIN (N.I.C.)

NOTES

UNIVERSAL WASHROOM:
PROVIDE AN EMERGENCY CALL SYSTEM THAT CONSISTS OF AUDIBLE AND VISUAL SIGNAL DEVICES INSIDE AND OUTSIDE OF THE WASHROOM THAT ARE ACTIVATED BY A CONTROL DEVICE INSIDE THE WASHROOM;
AN EMERGENCY SIGN THAT CONTAINS THE WORDS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE";
SIGN LETTERS AT LEAST 25MM HIGH WITH A 5MM STROKE;
POST SIGN ABOVE EMERGENCY BUTTON (LUI);
PROVIDE UNIVERSAL WC IDENTIFICATION SIGNAGE TO CONSISTING OF THE INTERNATIONAL SYMBOL OF ACCESS AND SUCH GRAPHICS, TACTILE OR WRITTEN DIRECTIONS AS NEEDED TO INDICATE A UNIVERSAL WASHROOM SPACE;



1 PLAN CALLOUT - UNIVERSAL WC
1:20

- #79 - REFRIGERATION SYSTEM**
- OWNER TO SUPPLY AND INSTALL REFRIGERATION SYSTEM TO SERVICE ALL DISPLAY & WALKIN COOLERS/FREEZERS
 - REFER TO OXFORD ENERGY SOLUTIONS INC. DESCRIPTION BELOW FOR BASIS OF DESIGN FOR SYSTEM
 - SUPPLY - CONTACT BEN KUNGL AT OXFORD ENERGY SOLUTIONS INC.
 - EMAIL: BEN@OXFORDENERGY.CA
 - PHONE: 519-532-6373
 - ACCEPTABLE INSTALLERS:
 - OXFORD ENERGY SOLUTIONS INC (SEE ABOVE)
 - RITE-TEMP REFRIGERATION (519-631-8550)
 - HILL VALLEY ENERGY (terry@hillvalleyenergy.com)

Heat Loads:
 Please refer to excel spread sheet for load profile and circuits.
 this system currently has 28 refrigeration circuits in the control sequence.
 Total load profile = approx 200,000 @20 deg F SST, 60,000 @ -10 deg F SST, total system

Oxford Refrigeration LPP model 300/70. Complete packaged outdoor unit.
 Sized based on above mentioned loads. Condenser sized for full store at heat of rejection approximately 320,000 btu/hr based on a 15 degree T/D.
 Complete Oxford Sensori Platform with Gatemanager interface included.
 Secure access with firewall and trend logs.
 Lo and Medium Temp comprised of Copeland ZB scroll compressors with oil management and OPTIONAL Oxford Vapour Drive compressor, magnetic drive, oil free compressor.

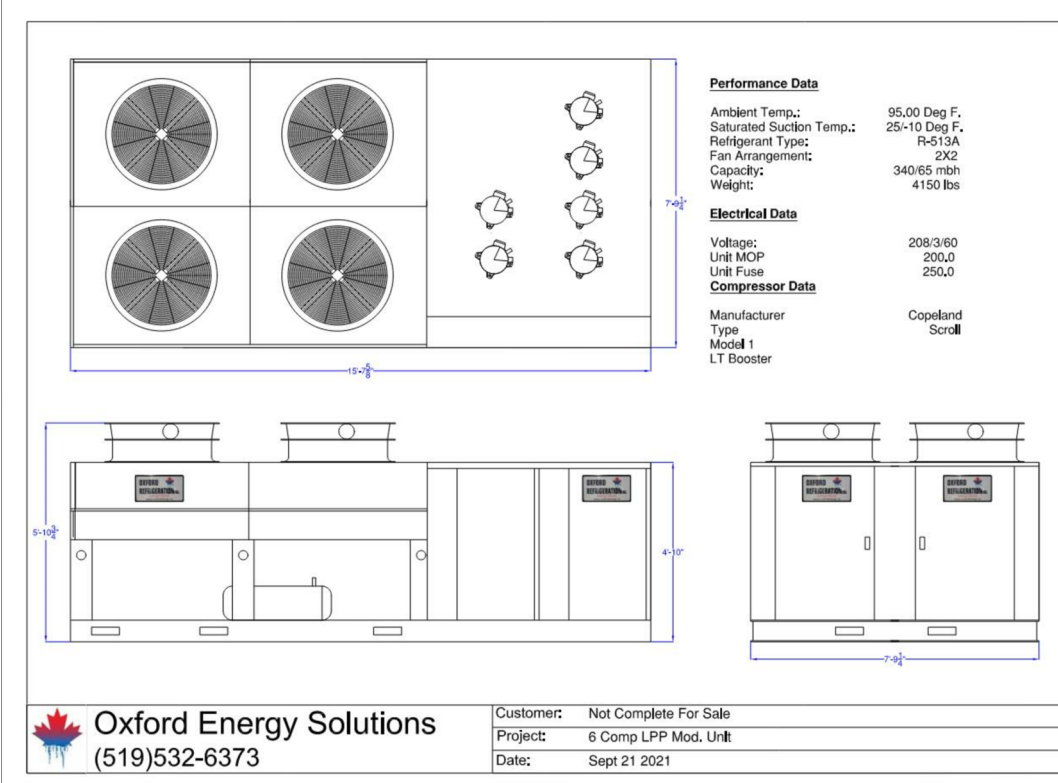
208/3 phase with 24vac control system.
 Boil out suction accumulator with sub-cooling loop, changeable suction and liquid line filters.
 Isolation valves, floating head pressure control, dual relief valves on receiver.
 Sub cooled loop and receiver on condenser.
 R-513a/POE oil, HFO, LOW GWP refrigerant.
 CSA approved.
 No disconnect in panel.
 Primary med temp compressor vfd driven.
 Condenser fans vfd driven.
 Low temperature compressor vfd driven
 Power monitor in cabinet.
 All EXV controls shown as separate below for all circuits.
 Store layout and distribution of local and remote case controls to be determined.
 System is PRE-programmed, PRE-charged with 100lbs of refrigerant and all I/O is PRE-checked.
 Spare can of POE oil shipped loose.

-Customer responsible for proper installation, piping practices, start up and commissioning with the assistance of Oxford tech.
 -Equipment comes pre-programmed/set up based on layout of store provided.
 -System receiver is exempt from TSSA registration.

-all terms and conditions listed at www.oxfordenergy.ca
 -Oxford Energy will not be held responsible for any delays of equipment affected by events that are beyond the control of Oxford Energy Solutions Inc.
 -Oxford Energy will not be held accountable for any issues resulting in loss of product or damage to product. The accountability of the food stuff in storage is the sole responsibility of the facility owner.

-Oxford listed equipment has a free 2nd year compressor warranty when trained personnel submits start up report on compressors. This can be done electronically.
 -3rd year warranty on compressors is available upon discussion and is an extra charge that is not included in this estimate.
 -All installation, permits, structural, engineering, etc all the responsibility of the customer.
 -Unloading equipment at site is responsibility of customer.
 -Location of internal 15" HMI screen to be discussed and connected to Internet system.
 -All cases/fixtures by Arneg. This estimate only covers the equipment listed in it.
 -All low temperature display cases will have high temp interlock relay installed by Arneg for automatic shut off of all door anti sweat heaters to be controlled via automation system. If case is being re-used then electrical of case will be re-done with EXV kit and relays.
 -All power for evaporator fans and defrost heaters to be supplied from the facility power distribution and controlled via low voltage signals to each case. Each case has the isolation relays for evaporator fans and defrost heaters in the case.

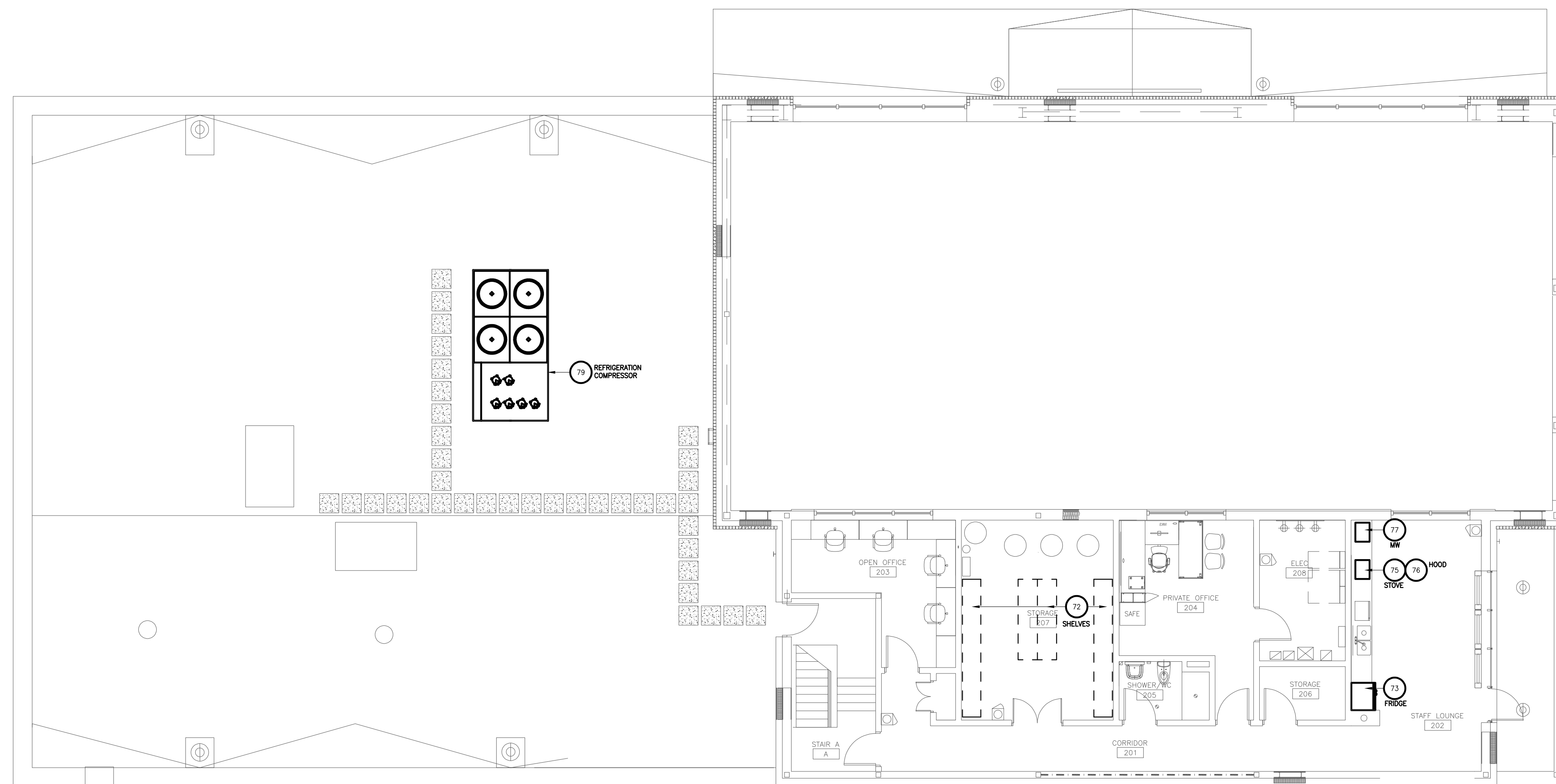
Evaporators listed for all walk in coolers/freezers on excel sheet.
 All evaporators will have ECM fan motors, insulated drain pans, electric defrost where applicable.
 Evaporator Ref Plus LSA/E series with insulated drain pans, ECM motors and electric defrost heaters where applicable.
 Listing of evaporator models on excel sheet and quantity.
 4 walk in cooler evaporators, 2 walk in freezer evaporators. 1 cut room evap.
 7 evaporators in total.
 Shipped directly to site.
 230vac single phase
 Oxford Refrigeration stand alone Sensori Circuit control with VEV integrated driver.
 Room and evaporator coil sensors and all transducers and cables required.
 Includes EXV sized as per Excel sheet.
 220/120/24vac/dc voltages
 CSA approved.



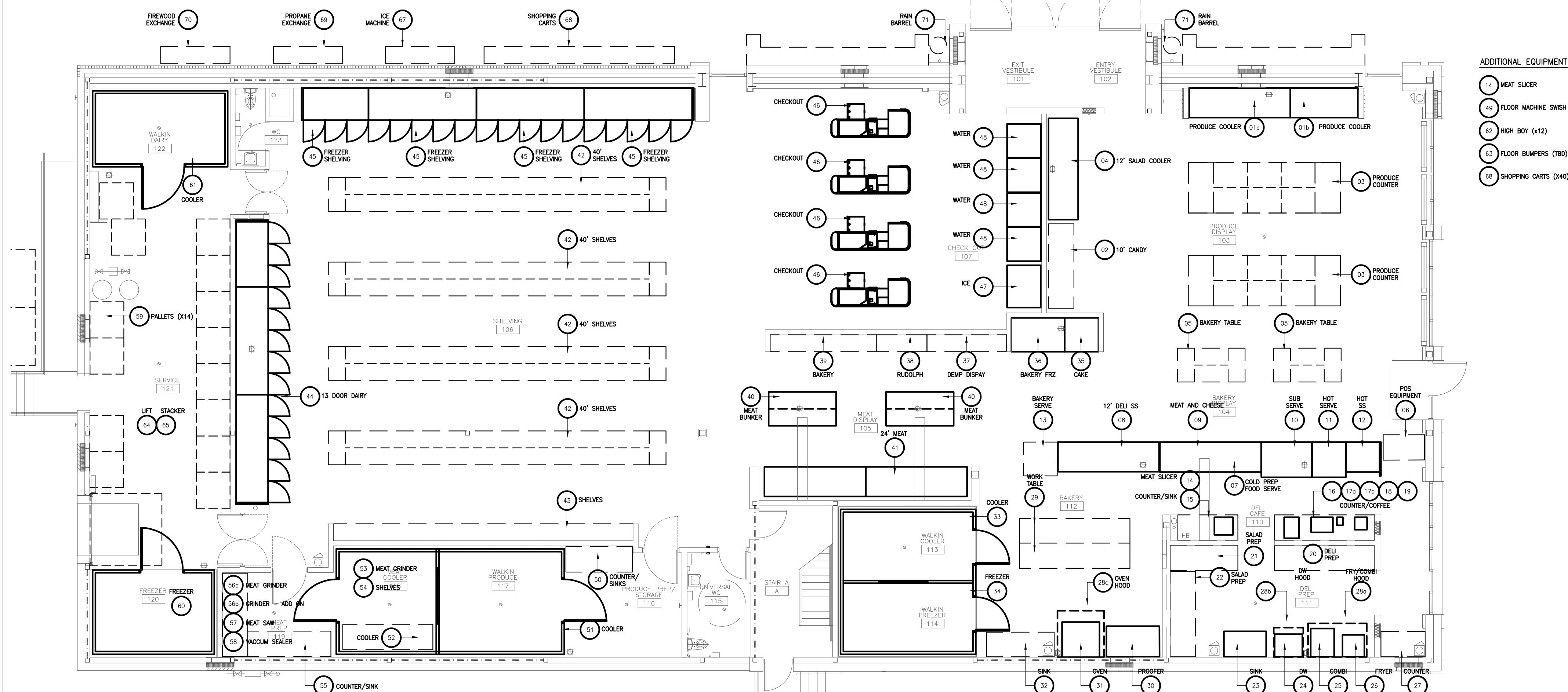
Oxford Energy Solutions
 (519)532-6373

Completed: Not Complete For Sale
 Project: 6 Comp LPP Mod. LHK
 Date: Sept 21 2021

1 REFRIGERATION SYSTEM



3 LEVEL 2 EQUIPMENT PLAN
 1:100



2 GROUND LEVEL EQUIPMENT PLAN
 1:100

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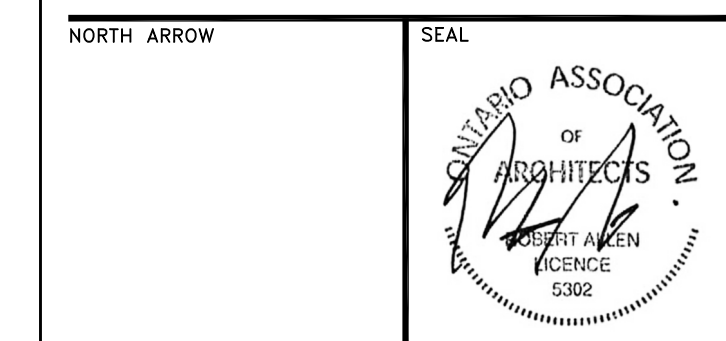
MJMA
 maclean jenkins miller architects
 425 adelade street west level 6
 Toronto Ontario M5V 3C1
 416 593 4794
 www.mjmaarchitects.com

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 229 BROADWAY, UNIT 1
 ORANGEVILLE, ONTARIO, L9W 1K4
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 E. 705.856.4831
 e: sayers@apsley.com
 o: sayers@apsley.com



PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE

EQUIPMENT FLOOR PLANS

SCALE
1:100
 DATE
JULY 15, 2022

PROJECT NUMBER
2102
 DRAWING NUMBER

A450

ITEM NO.	QTY	LOCATION	DESCRIPTION	BRAND	BASE OF DESIGN	DIMENSIONS (WxDxH)	SPEC COMMENTS	MECHANICAL				Mech Notes	CONNECTION	AFF(mm)	VOLTS	ELECTRICAL			HP	KW	ELECTRICAL REMARKS		
								COLD WATER (mm)	HOT WATER (mm)	FILTERED H2O	DRAIN					PHASE	AMPS	CYCLE					
01a	1	103 - PRODUCE DISPLAY	12' PRODUCE COOLER	Arneg	USGONA PMS-13 LSR T436 105-162 HF R23 2019-10-24	3657mm x 1052mm x 1870mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. 12' UNIT, GANGE TOGETHER WITH 4' UNIT	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	3 Fans (0.57) + LED Lights EE (0.24) + (0.64)	NA	NA	No Night Curtains No Electric Defrost Black Interior	
061	1	103 - PRODUCE DISPLAY	4' PRODUCE COOLER	Arneg	USGONA PMS-13 LSR T436 105-162 HF R23 2019-10-24	2438mm x 1052mm x 1870mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. 4' UNIT, GANGE TOGETHER WITH 12' UNIT	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	2 Fans (0.57) + LED Lights EE (0.60) + (0.63)	NA	NA	No Night Curtains No Electric Defrost Black Interior	
02	1	103 - PRODUCE DISPLAY	3F CASH	Cavaza			OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.	
03	2	103 - PRODUCE DISPLAY	PRODUCE COUNTER	Cavaza			OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.	
04	1	103 - PRODUCE DISPLAY	12' SALAD COOLER	Arneg	USGONA PMS-2, 13 LSR T476 105-101 LF MF R14 2014-06-14	3657mm x 1052mm x 2080mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	3 Fans (0.57) + LED Canopy = 1 + LED 3 rows Shelves 1-25 TOTAL = 2.82 A	NA	NA	No Electric Defrost Black Interior	
05	2	104 - BAKERY DISPLAY	BAKERY TABLE	Cavaza			OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.	
06	1	104 - BAKERY DISPLAY	POS EQUIPMENT	Husid			OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.	
07		Reserved						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.	
08	1	110 - DELI CAFE	12' DELI SELF SERVE	Arneg	USGONA PMS-1 L3 LSR T835 105-136 LF MF R14 2014-05-30	3657mm x 1052mm x 1520mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	3 Fans (0.57) + LED Canopy = 1 + LED 3 rows Shelves 1-25 TOTAL = 2.82 A	NA	NA	No Electric Defrost Black Interior	
09	1	110 - DELI CAFE	MEAT & CHEESE	Arneg	GLASGOW 2 V	3658mm x 1083mm x 1370mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	12 Fans (1.23) + LED Canopy = 1 + LED 3 rows Shelves TOTAL = 2.3 A	NA	NA	Provide Separate hardwired connection to GFI Plug Supplied with Case (for safety).	
10	1	110 - DELI CAFE	SUB SERV	Arneg	ADRE 2 FROST/COLD	1820mm x 1270mm x 1370mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1.1/2" ABS(42)	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	3 Fans (0.48) + LED Canopy = 1 + LED 3 rows Shelves 1-25 TOTAL = 0.8 A	NA	NA		
11	1	110 - DELI CAFE	HOT SERV	Arneg	GLASGOW 2 HOT/CHAUD	1218mm x 1083mm x 1370mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	No Drain	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	2 Fans (0.28) + LED Canopy = 2 TOTAL = 0.56 A Hot Water = 10.6 A	NA	NA	Provide Separate hardwired connection to GFI Plug Supplied with Case (for safety).	
12	1	110 - DELI CAFE	HOT SS	Arneg	GLASGOW 2 HOT/CHAUD	1218mm x 1083mm x 1370mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	No Drain	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	2 Fans (0.28) + LED Canopy = 2 TOTAL = 0.56 A Hot Water = 10.6 A	NA	NA	Provide Separate hardwired connection to GFI Plug Supplied with Case (for safety).	
13	1	110 - DELI CAFE	BAKERY SERVICE				OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.	
14	2	110 - DELI CAFE	MEAT SLICER	Hobart	MPS-1 MEAT SLICER	473mm x 615mm x 780mm	OWNER SUPPLIED. Note: inc. Removable Knife Option	NA	NA	NA	NA	NA	NA	Wiring 5-10R	0' Card	120v	60Hz	1	5.6A	1/2 HP	0.72w		
15	1	110 - DELI CAFE	MEAT SLICER COUNTER/STOVE	GIS			OWNER SUPPLIED																
16	1	110 - DELI CAFE	BURRO CHIEF	Hendrix	ParoChef - Buffet	1.80mm x 762mm x 582mm	OWNER SUPPLIED. Note: Ventless	NA	NA	NA	NA	NA	NA	Wiring 6-20P	0' Card	200V/240v	60Hz	1	3.8A		NA	1.5 kW	
17a	1	110 - DELI CAFE	ESPRESSO MACHINE	Smacook	Semioroff Apprx. 1/2 Group Full-Size	780mm x 546mm x 546mm	OWNER SUPPLIED. inc. 1/2" NPT Gas Connection (1/2" NPT) - The Coffee Shop is not a Specialty	1/2"	NA	NA	No	Yes - 1" max.	NA	inc. Dedicated Cold Water Line with Shutoff valve & 1/2" compression fitting. inc. 200V 240v water software	Wiring 6-20R	Inline Counter	220v	60Hz	1	20A			
17b	1	110 - DELI CAFE	Coffee Grinder	Smacook	M8i On Demand	215mm x 292mm x 410mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	Wiring 5-10R		115v	60Hz	1	5	N/A	170w		
18	1	110 - DELI CAFE	COFFEE MAKER	gsm	Espresso 4.50L 2 AXIOM CHIPS	225mm x 354mm x 344mm	OWNER SUPPLIED	1/4"						Supplied with 1/4" male Barb fitting	Hardwired		220v	60Hz	1	2.5A		1470w	
19	1	110 - DELI CAFE	ESPRESSO COUNTER	GIS			OWNER SUPPLIED																
20	1	111 - DELI PREP.	12' DELI PREP	GIS			OWNER SUPPLIED																
21	1	111 - DELI PREP.	8' SALAD PREP	GIS			OWNER SUPPLIED																
22	1	111 - DELI PREP.	3F SALAD PREP	GIS			OWNER SUPPLIED																
23	1	111 - DELI PREP.	DVA	GIS			OWNER SUPPLIED - CONTRACTOR INSTALLED																
24	1	111 - DELI PREP.	DISHWASHER	HOBART	AM15VLT BAS	1000mm x 813mm x 1718mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. Note: No Vent Hood, Reverse On and Opening Clearance	1/2" Female garden hose (1/2" length)	1/4" Female garden hose (1/2" length)	1/4" Female garden hose (1/2" length)	1/2" Barb fitting with hose (1/2" length)	NA	NA	Hardwired	E1 - 12 11/16" AFF E2 - 14 1/2" AFF E3 - 13 11/16" AFF	E1 - 200-240 E2 - 200-240 E3 - 200-240	60Hz	3	E1 - 50 E2 - 50 E3 - 50			Refer to Spec Sheet For E1, E2, E3 Designation	
25	1	111 - DELI PREP.	COMB	hational	Combo Pro 1 900T 160 (L/S)	813mm x 1016mm x 775mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	1/4" Hose	NA	NA	1" OD	NA	NA	Hardwired	60mm AFF	200/240 VAC	60Hz	3	60A Breaker			18.9kw	Electric - Not Gas Option
26	1	111 - DELI PREP.	RFIR	HOBART	2TRSLF-1	182mm x 762mm x 1200mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	Propane	1.1/4" NPT Common Gas Connection (180mm AFF)	Hardwired		120v	60Hz	1	1.83kW	NA	1/3 HP		
27	1	111 - DELI PREP.	OVEN	GIS			OWNER SUPPLIED																
28a	1	111 - DELI PREP.	EXHAUST HOOD COMB + RFIR	GAYLORD	14 RD X10 DCA 300 S4 PBA-14 MAKE-UP AIR PLENUM BOX ANSUL-FIRE SUPPRESSION SYSTEM	0' 4" 1772mm x 1272mm x 762mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA	REFER TO MECHANICAL DRAWINGS	Hardwired								
28b	1	111 - DELI PREP.	EXHAUST HOOD OVEN	GAYLORD	14 RD X10 DCA 300 S6 PBA-12 MAKE-UP AIR PLENUM BOX ANSUL-FIRE SUPPRESSION SYSTEM	0' 4" 1676mm x 1676mm x 762mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA	REFER TO MECHANICAL DRAWINGS	Hardwired								
28c	1	111 - DELI PREP.	EXHAUST HOOD DISHWASHER	GAYLORD	VHS 16-43 VENTILATOR ANSUL-FIRE SUPPRESSION SYSTEM	0' 4" 1067mm x 1067mm x 762mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA	REFER TO MECHANICAL DRAWINGS	Hardwired								
29	2	112 - BAKERY	BAKERY WORK TABLE	GIS			OWNER SUPPLIED																
30	1	112 - BAKERY	PROOFER	HOBART	RA225-413' G-FL	1918mm x 1100mm x 2527mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. 1/2" NPT 5" AFF	NA	NA	NA	1.1/2" NPT 5" AFF	NA	NA	Hardwired	8" AFF	240v	60Hz	3 phase	NA	NA	NA		
31	1	112 - BAKERY	OVEN	DOOR	0420	1153mm x 1056mm x 1854mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. Note: Electric Oven	1/4" NPT	NA	YES	NA	NA	inc. Water Filter (F1246)	Hardwired		200v	60Hz	1 phase	130A			270w	
32	1	112 - BAKERY	COUNTER/SINK	GIS			OWNER SUPPLIED - CONTRACTOR INSTALLED																
33	1	113 - WALKIN COOLER	COOLER	COOL MASTER	4' COOLER PANELS	1158mm x 487mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA										
34	1	114 - WALKIN FREEZER	FREEZER	COOL MASTER	4' FREEZER PANELS	1158mm x 487mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA										
35	1	105 - MEAT DISPLAY	CASE	Arneg	PMS-6	1218mm x 1067mm x 1370mm (open height)	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	2 Fans (0.19) + LED Canopy = 1 + LED 3 rows 3 Shelves 1-25 TOTAL = 0.6 A	NA	NA	No Electric Defrost Black Interior	
36	1	105 - MEAT DISPLAY	3 DOOR BAKERY FREEZER	MULDERSMAN	RLTM	1575mm x 1162mm x 2281mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.1/2" ABS	NA	NA	Hardwired	Floor Supplied	150v Typical 200v Electric Defrost heater	60Hz	1/2 3	2 Fans = 13.2A, Door Heat = 4.4A, Frame Heat = 0.56A, LED Lighting = 0.26A, Door Heat = 0.63A, Defrost Heat = 6.22A				
37	1	105 - MEAT DISPLAY	SEMI DISPLAY	Cavaza			OWNER SUPPLIED																
38	1	105 - MEAT DISPLAY	RIBROLOPH	Cavaza			OWNER SUPPLIED																
39	1	105 - MEAT DISPLAY	BAKERY SHELVING	Cavaza			OWNER SUPPLIED																

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 maclellan jaunkains miller architects
 425 adelade street west level 6
 Toronto Ontario M5V 3C1
 416 593 4794
 www.mjmaarchitects.com

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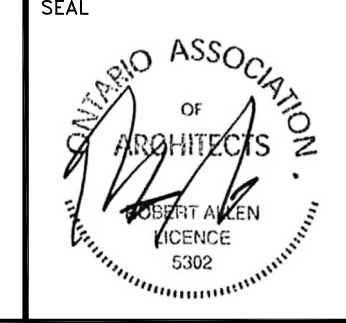
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 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416 487 8151

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132 BURLEIGH STREET
 T: 705.856.4531
 e: sayers@apsley.ca

NORTH ARROW



PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
EQUIPMENT SCHEDULE

SCALE
NTS
 DATE
JULY 15, 2022

PROJECT NUMBER
2102
 DRAWING NUMBER

A451

ITEM NO	QTY	LOCATION	DESCRIPTION	BRAND	BASIS OF DESIGN	DIMENSIONS (WxDxH)	SPEC COMMENTS	MECHANICAL				Mech Notes	CONNECTION	AFF(mm)	VOLTS	ELECTRICAL			HP	KW	ELECTRICAL REMARKS	
								COLD WATER (mm)	HOT WATER (mm)	FILTERED H2O	DRAIN					GAS	CYCLE	PHASE				AMPS
90	2	100 - MEAT DISPLAY	MEAT BURNER	Arnie	LAVAL Q2 S/C	2545mm x 1048mm x 935mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	Hardwired	Floor Supplied	230V	60Hz	1	0.68A	NA	NA	Dedicated Circuit	
91	2	100 - MEAT DISPLAY	1/2 MEAT SHELF	Arnie	OSBORN VIKO_L5 LB TD76 105-191 HF 836 2016-06-14	863mm x 1087mm x 208mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1 1/2" ABS	NA	Hardwired	Floor Supplied	120V	60Hz	1	Fans = 1.5A Cansy = 0.5A Shelf = 1.25A	NA	NA	Dedicated Circuit No Defrost	
92	6	100 - SHELVING	60 SHELVING	ETAEK			OWNER SUPPLIED - CONTRACTOR INSTALLED														Provide Floor Outlet Connections	
93	1	100 - SHELVING	SHELVES	ETAEK			OWNER SUPPLIED - CONTRACTOR INSTALLED															
94	2	100 - SHELVING	3 DOOR DAIRY SHELVING	HUSMANN	RMFM	8926mm x 1162mm x 2263mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1 1/2" ABS	NA	Hardwired	Floor Supplied	120V	60Hz	1	5 Fans 12.5A Door Heat = NA Frame Heat = 0.32; LED Lighting = 0.84A;				
94b	1	100 - SHELVING	3 DOOR DAIRY SHELVING	HUSMANN	RMFM	2350mm x 1162mm x 2263mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1 1/2" ABS	NA	Hardwired	Floor Supplied	120V	60Hz	1	3 Fans 4.5A Door Heat = NA Frame Heat = 0.32; LED Lighting = 0.53A;				
95	4	100 - SHELVING	3 DOOR FREEZER SHELVING	HUSMANN	RLM	8926mm x 1162mm x 2263mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1 1/2" ABS	NA	Hardwired	Floor Supplied	120V Typical; 200W Electric Defrost Heater	60Hz	1/2 1	5 Fans 17.5A; Door Heat = 3.6A; Frame Heat = 2.8A; LED Lighting = 0.54A;				
96	4	100 - CHECKOUT	CHECKOUT	PAN OXTON	3-M-130	2625mm x 1235mm x 1305mm	OWNER SUPPLIED AND INSTALLED; CONTRACTOR PROVIDE ROUGH INS	NA	NA	NA	NA	NA			120			2.5A				
97	1	100 - CHECKOUT	ICE MACHINE	HYLAND ICE	MODEL 65		OWNER SUPPLIED	NA	NA	NA	NA	NA	Nema 3-1Sp	6' Long Cord	115V	60Hz	1 phase	1.5A	NA	NA	Dedicated Circuit	
98	4	100 - CHECKOUT	3B WATER	ROCKY RIDGE	47"-52" MODEL	1307mm x 1307mm x 1702mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
99	1	A - STAFF	FLOOR MACHINE SWASH				OWNER SUPPLIED															
100	1	110 - PRODUCE PREP/STORAGE	COUNTER/SINKS	GSB			OWNER SUPPLIED - CONTRACTOR INSTALL															
101	1	110 - WALNUT PRODUCE	COOLER	COOL MASTER	4" COOLER PANELS - OUTDOOR COMPRESSOR (ASH95122MAG1) - INTERIOR COILS - LIGHT	3820mm x 4373mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1"	NA	Coordinate location of drain with based on condensate requirements	Hardwired	OUTDOOR COMPRESSOR (ASH95122MAG1) = 230V - INTERIOR COILS = 150V - LIGHT = 150V	60Hz		OUTDOOR COMPRESSOR (ASH95122MAG1) = 20A - INTERIOR COILS = 15A - LIGHT = 15A	OUTDOOR COMPRESSOR (ASH95122MAG1) = 1- 1/2 HP			
102	1	110 - MEAT COOLER	COOLER	COOL MASTER	4" COOLER PANELS - OUTDOOR COMPRESSOR (ASH95122MAG1) - INTERIOR COILS - LIGHT	3820mm x 3657mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1"	NA	Coordinate location of drain with based on condensate requirements	Hardwired	OUTDOOR COMPRESSOR (ASH95122MAG1) = 230V - INTERIOR COILS = 150V - LIGHT = 150V	60Hz		OUTDOOR COMPRESSOR (ASH95122MAG1) = 20A - INTERIOR COILS = 15A - LIGHT = 15A	OUTDOOR COMPRESSOR (ASH95122MAG1) = 1- 1/2 HP			
103	1	110 - MEAT COOLER	MEAT GRINDER	HOBART	8146-19	2716mm x 676mm x 1233mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	Hardwired		200V	60Hz	3 phase	13.20A	3hp	7.66kW		
104	1	110 - MEAT COOLER	SHREWS	GSB			OWNER SUPPLIED															
105	1	110 - MEAT PREP	COUNTER/SINKS	GSB			OWNER SUPPLIED - CONTRACTOR INSTALL															
106	1	110 - MEAT PREP	MEAT GRINDER	HOBART	M2032-1 Puma Meat Grinder	686mm x 1448mm x 1270mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	115-30	6' Long Cord	208V	60Hz	3 phase	30A	7.5 hp - Grind 1 hp - Mix			
106	1	110 - MEAT PREP	MEAT GRINDER - TENDERIZER ADD-ON	HOBART	803-1 Tenderizer	510mm x 267mm x 462mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	Nema 3-1Sp	6' Long Cord	115V	60Hz	1 phase	NA	1/2 hp	60W		
107	1	110 - MEAT PREP	MEAT BONE SAW, ELECTRIC	HOBART	8891-22 MEAT BONE SAW	860mm x 845mm x 810mm	OWNER SUPPLIED						115-20p	6' Long Cord	208 240V	60Hz	3 phase	7.25	3hp	1.95kW		
108	1	110 - MEAT PREP	VACUUM SEALER	HOBART			OWNER SUPPLIED															
109	15	120 - SKI/ICE	PALLETS BACKING	GSB			OWNER SUPPLIED															
110	1	110 - FREEZER	FREEZER	COOL MASTER	4" FREEZER PANELS	3048mm x 4394mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA										
111	1	120 - WALNUT DAIRY	COOLER	COOL MASTER	4" COOLER PANELS	2745mm x 4876mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA										
112	12	000 - MISC INTERIOR	HIGH BOYS	TBC			OWNER SUPPLIED															
113	TBD	000 - MISC INTERIOR	FLOOR BUMBERS	Arnie or NEI Plastics			OWNER SUPPLIED - CONTRACTOR INSTALLED															
114	1	000 - MISC INTERIOR	LIFT	Perthco			OWNER SUPPLIED															
115	1	000 - MISC INTERIOR	STACKER	TBC			OWNER SUPPLIED															
116		Reserved																				
117	1	000 - EXTERIOR	ICE MACHINE	HYLAND ICE	Model 100	2388mm x 802mm x 802mm	800/82 Cabinet OWNER SUPPLIED	NA	NA	NA	NA	NA	Nema 3-1Sp	6' Long Cord	115V	60Hz	3 phase	3.5A	NA	NA	dedicate, dedicated circuit	
118	40	000 - EXTERIOR	SHOPPING CARTS	TBC			OWNER SUPPLIED															
119	1	000 - EXTERIOR	PROPANE EXCHANGE	TBC			OWNER SUPPLIED															
120	1	000 - EXTERIOR	FIREWOOD EXCHANGE	TBC			OWNER SUPPLIED															
121	2	000 - EXTERIOR	RAIN BARRELS	TBC			OWNER SUPPLIED															
122	TBD	200 - STORAGE	STORAGE SHELVES	CRB			OWNER SUPPLIED															
123	1	200 - STAFF LOUNGE	RESIDENTIAL BRIDGE	Viking	RWFS181 - 30"	514mm x 792mm x 1765mm	OWNER SUPPLIED 55 Finish	NA	NA	YES	NA	NA	Nema 3-1Sp		120V	60Hz	1 phase	15.5 to 20A	NA			
124		Reserved																				
125	1	200 - STAFF LOUNGE	STOVE - STANDARD ELECTRIC RANGE/OVEN	Flagstone	FFH9040 SW	86 5/8" x 26 7/8" x 3 3/4"	OWNER SUPPLIED															
126	1	200 - STAFF LOUNGE	STOVE - HOOD	brass	DCS1245C		OWNER SUPPLIED - CONTRACTOR INSTALL															
127	1	200 - STAFF LOUNGE	MICROWAVE	Viking	RW630	630mm x 680mm x 1390mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	Nema 3-1Sp		120V	60Hz	1 phase	13A	NA		1.5kW	
128	1	000 - EXTERIOR	SHOPPING CART CORNER				OWNER SUPPLIED															
129	1	Roof-top	Refrigeration Condenser	TBC			OWNER SUPPLIED - CONTRACTOR INSTALLED															

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	REVISED SPA	210809	AB
2	ISSUED FOR TENDER	210824	AB
3	REVISION TO BUILDING PERMIT	220315	AB
4	SI-01	220615	AB
5	BLG SET-OUT CAD	220715	AB
6	ISSUED FOR CONSTRUCTION	220715	AB
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MJMA
 maclellan jaunkalns miller architects
 425 adelade street west level 6
 Toronto Ontario M5V 3C1
 416 593 4796
 www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 229 BROADWAY, UNIT 1
 ORANGEVILLE, ONTARIO, L9W 1K4
 TEL 519 941 0330 FAX 519 941 1830


BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON
 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416 487 8151

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132 BURLEIGH STREET
 E. 705.856.4531
 e: sayers@apsley.ca

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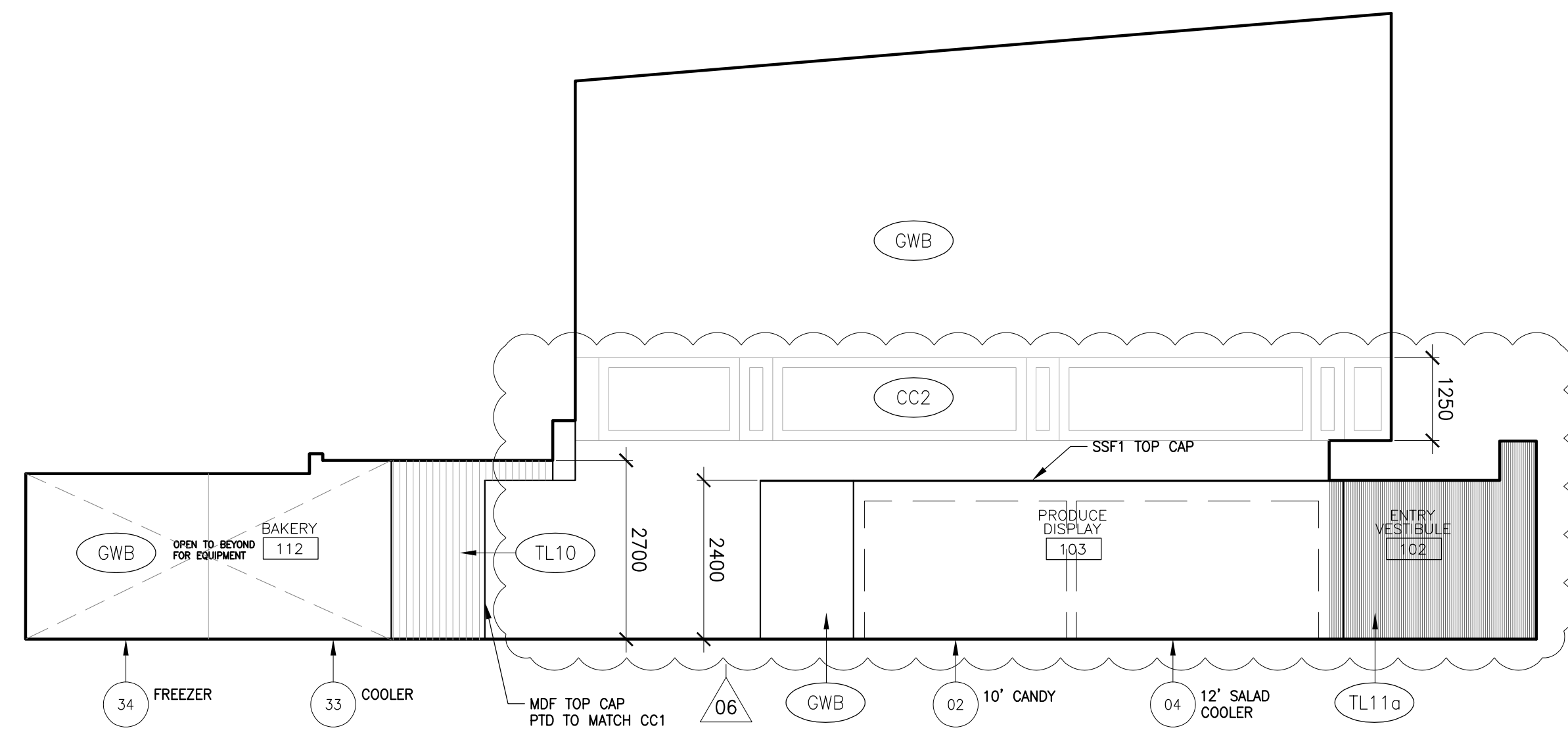
PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
EQUIPMENT SCHEDULE

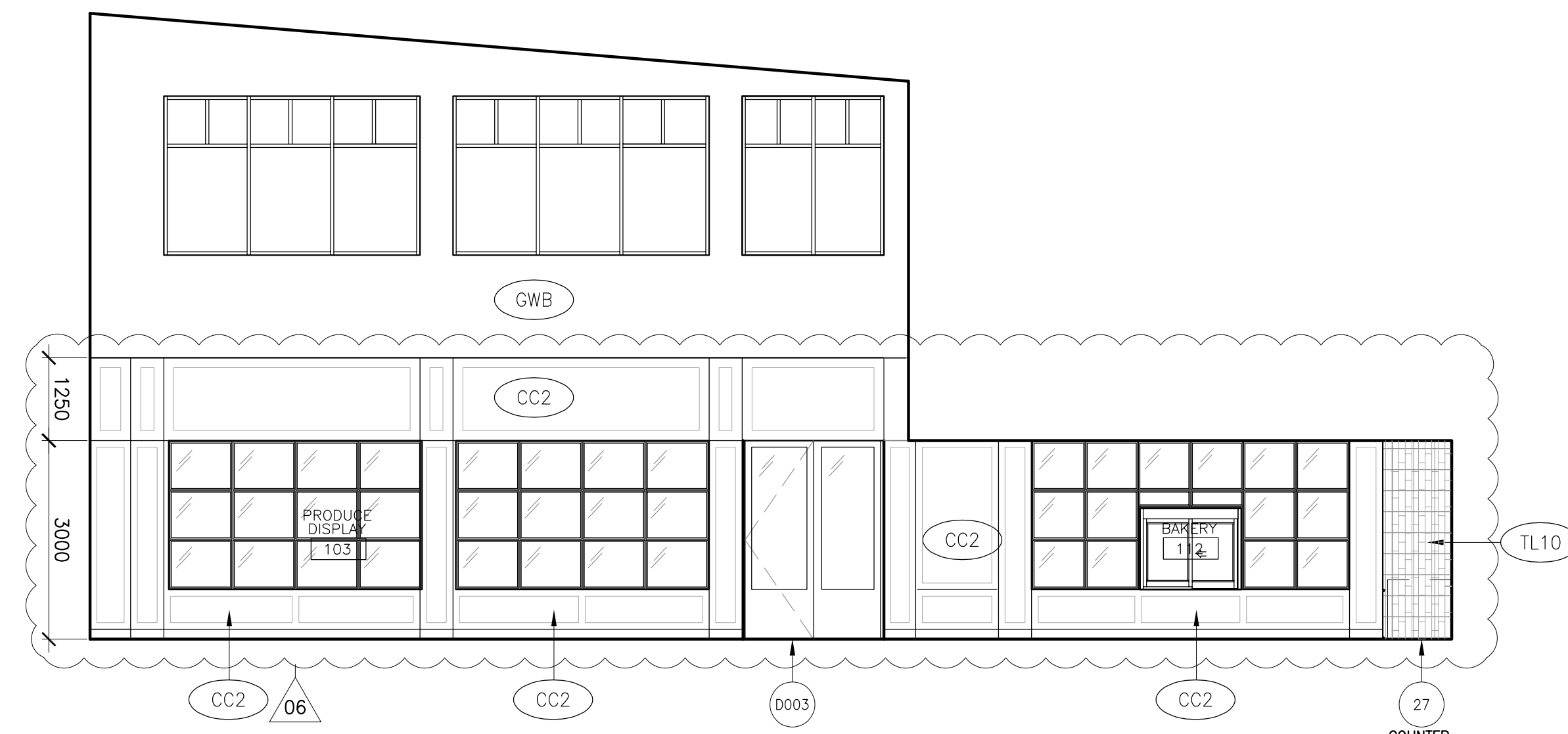
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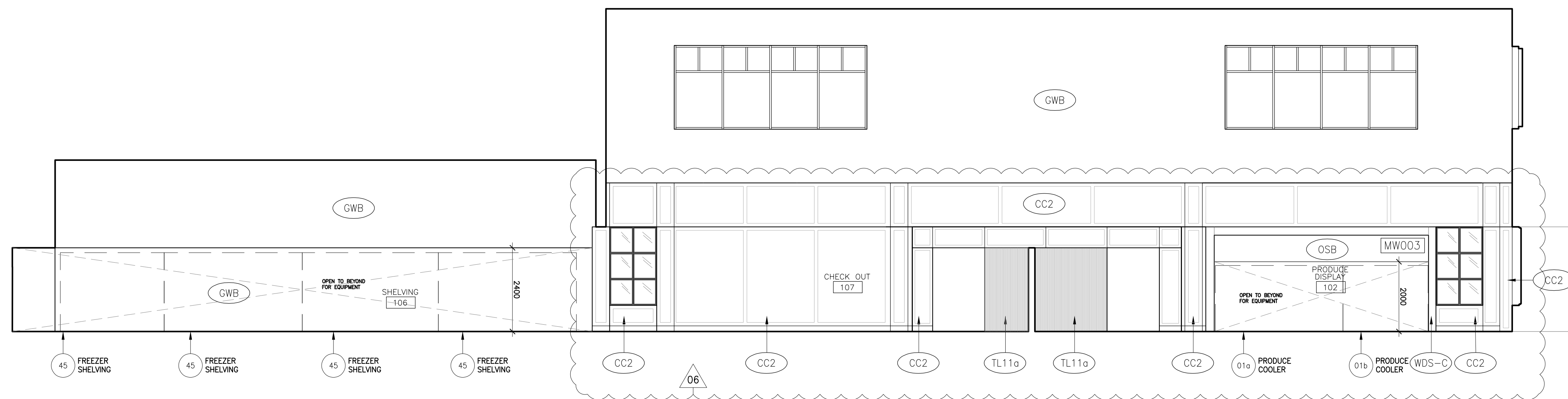
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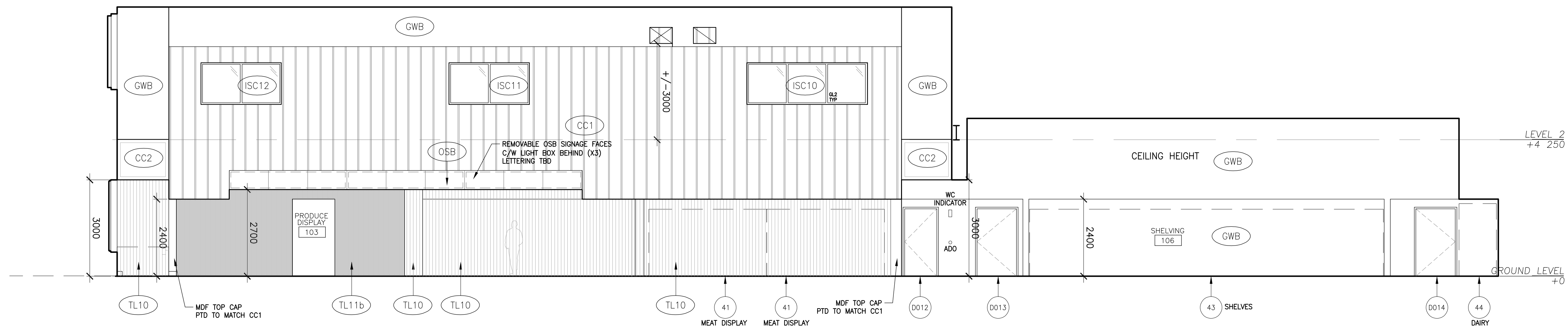
4 NORTH FACING
L1 - PRODUCE DISPLAY



3 SOUTH FACING
L1 - PRODUCE DISPLAY



2 EAST FACING
L1 - PRODUCE DISPLAY



1 WEST FACING
L1 - PRODUCE DISPLAY

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MJMA

maclean jankins miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL

STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca

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PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

INTERIOR ELEVATIONS

SCALE

1:100

DATE

JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A500

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416 593 4794
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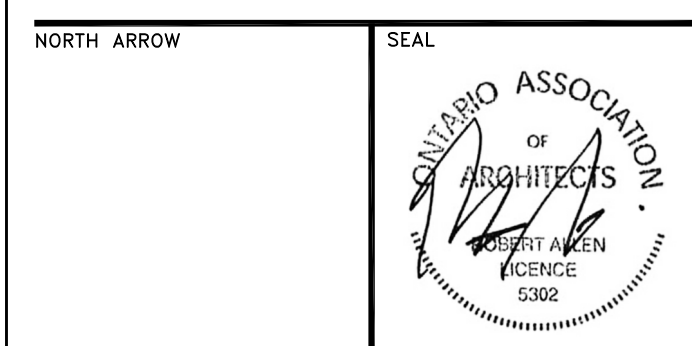
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229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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TORONTO, ONTARIO, M2N 6N5
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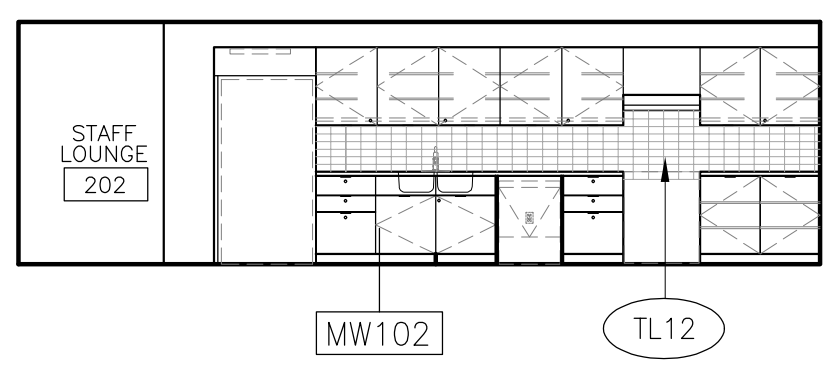
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
INTERIOR ELEVATIONS

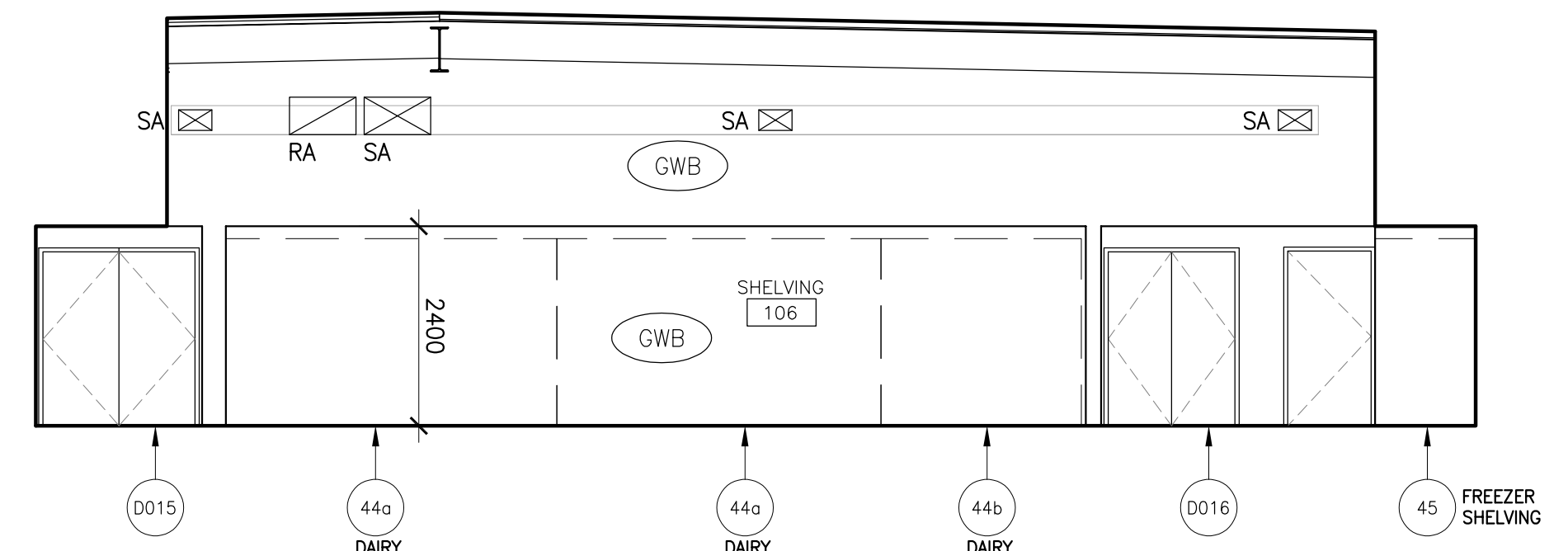
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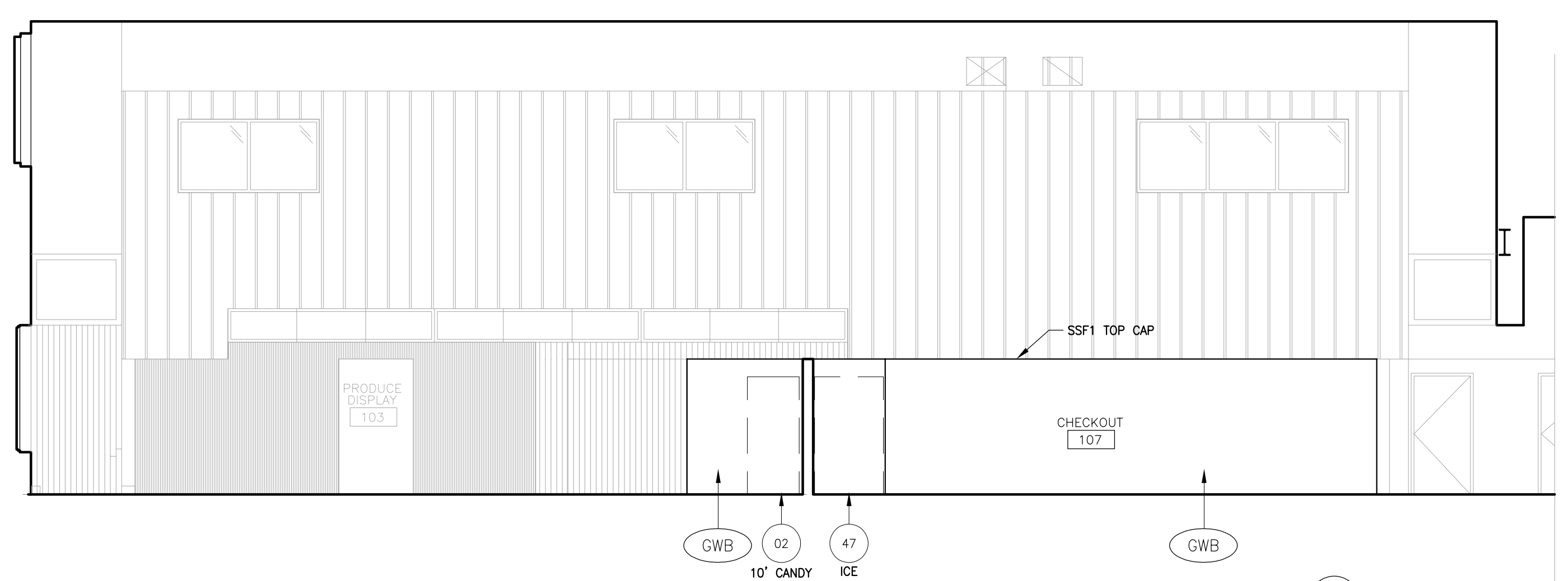
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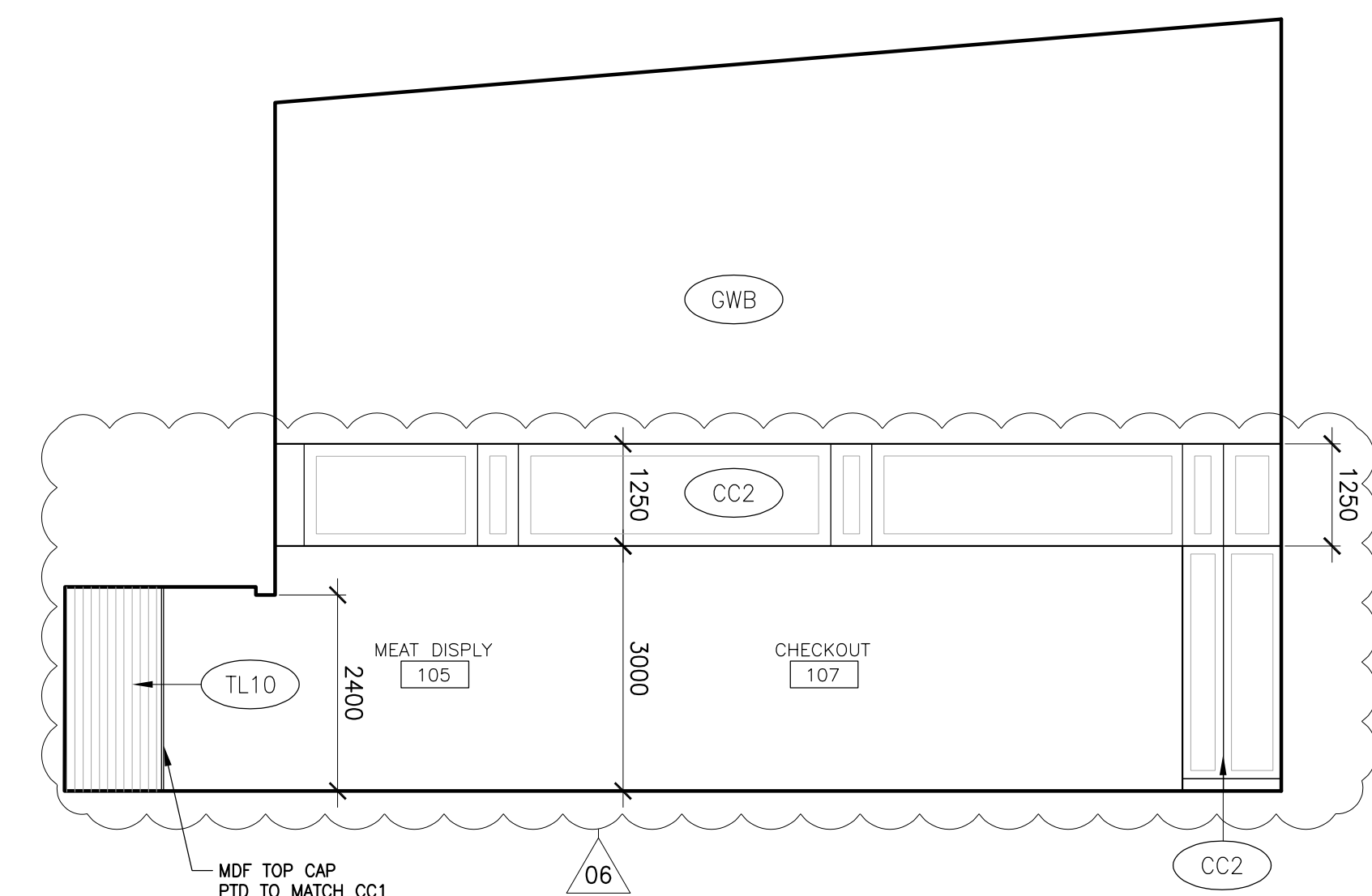
6 NORTH ELEVATION
L2 - STAFF LOUNGE



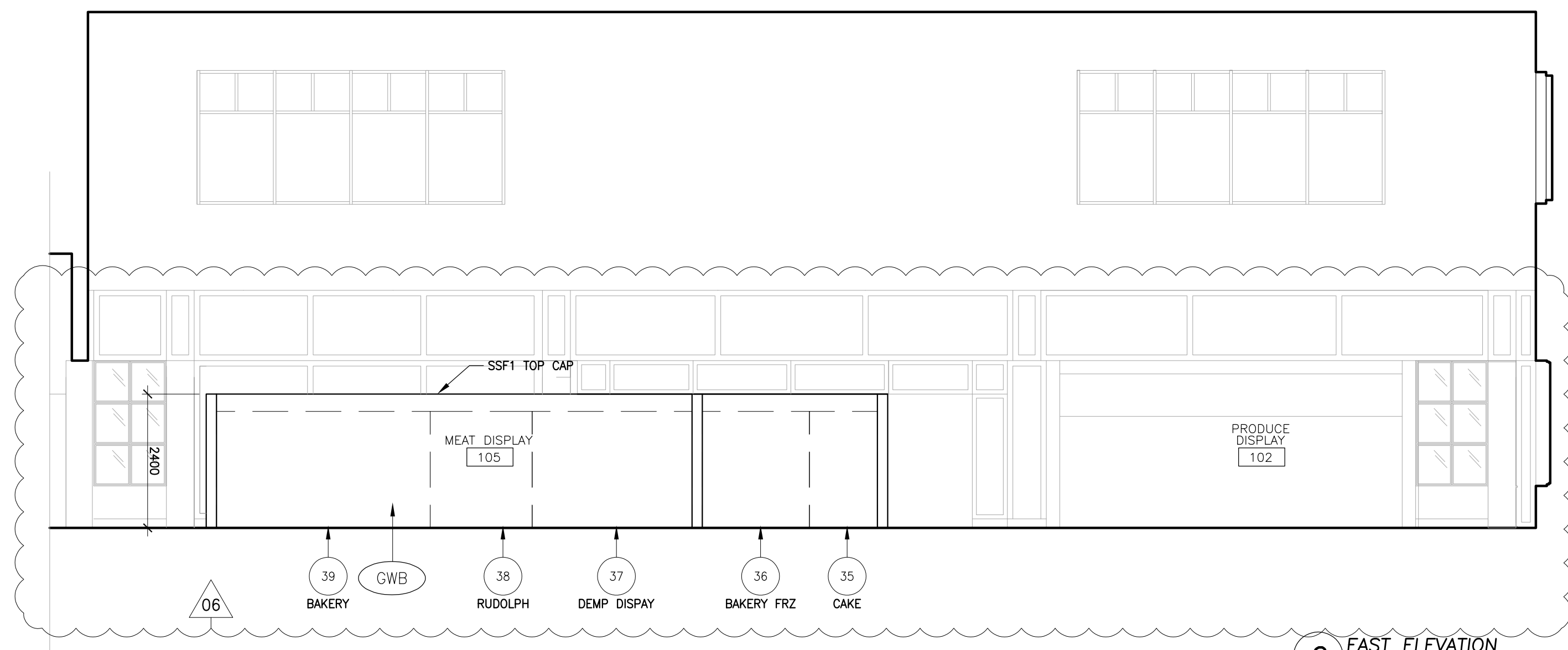
5 NORTH ELEVATION
L1 - SHELVING



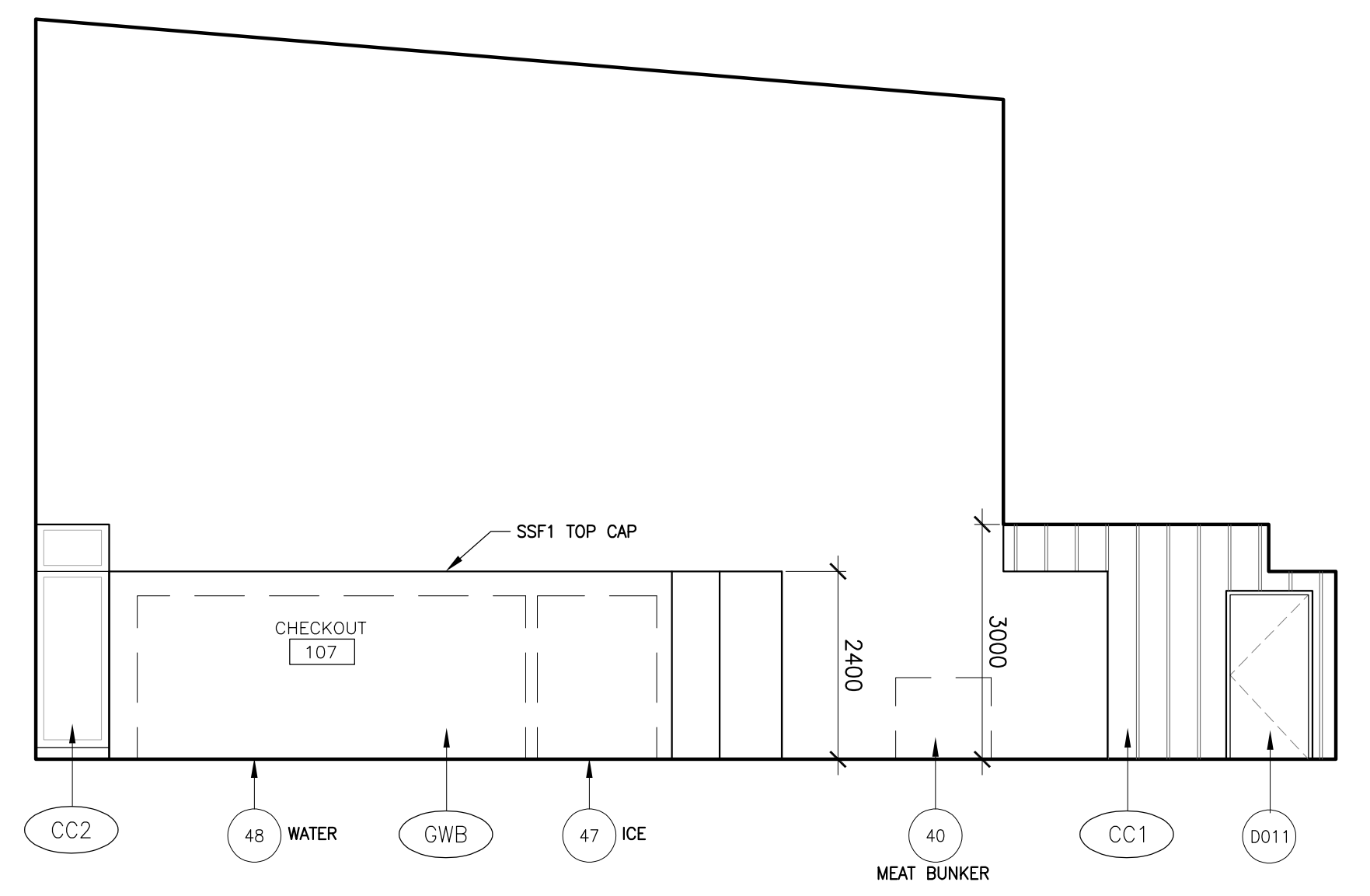
4 WEST ELEVATION
L1 - CHECKOUT



3 NORTH ELEVATION
L1 - CHECKOUT



2 EAST ELEVATION
L1 - CHECKOUT



1 SOUTH ELEVATION
L1 - CHECKOUT

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MJMA

maclellenn jaunkalns miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
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CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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TORONTO, ONTARIO, M5V 2H2
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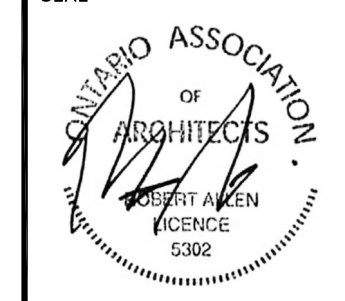
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1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL



PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

**DELI AND BAKERY
INTERIOR WALL SECTIONS**

SCALE

1:10

DATE

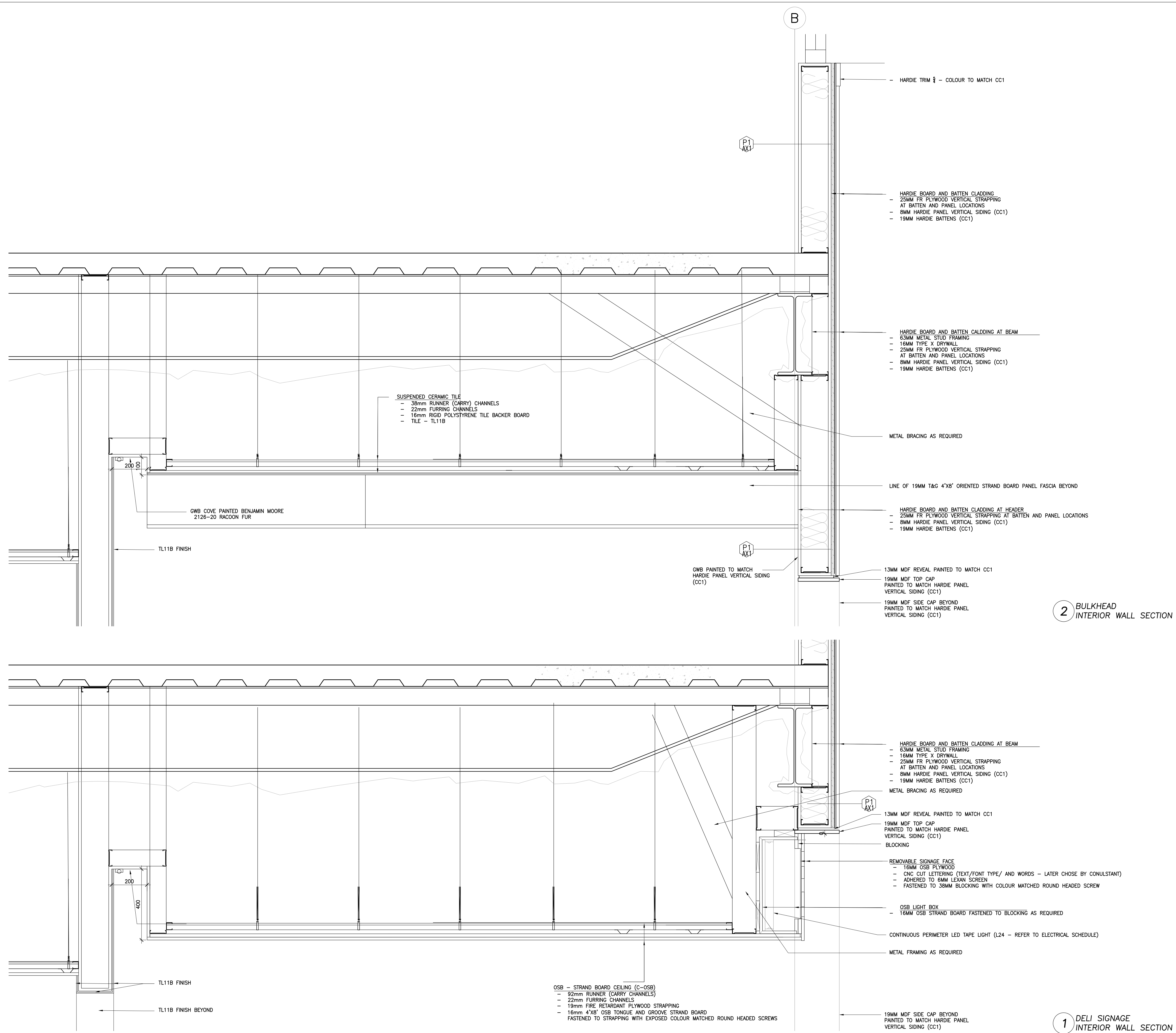
JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A510



D006 – LOADING DOCK LEVELER, SEAL, ACCESSORIES, DOOR

Loading Dock Specifications - Sayer's Grocery Store in Aspley, Ontario

Item: Serco Hydraulic Dock Leveler
Model: Serco Model HL830 Hydraulic Dock Leveler
Featuring: Nominal size 6' wide x 8' long
 30,000 lbs. capacity per ANSI MH 14.1 1992
 Pour in pan style dock leveler
 20" long, high tensile steel lip plate 5/8" thick
 Power in/Power out lip control
 Regenerative hydraulic system
 4 1/2" diameter main cylinder, 2 1/2" diameter lip cylinder
 Safety tread deck plate 1/4" thick
 Full range telescoping toe guards
 Hinged maintenance post
 Below dock control
 Fall Safe
 Grease fittings on hinge tube
 Minimum lip crown set at 4" above dock
 15 degree leading edge lip bevel
 Clean frame subframe designed to minimize pit floor obstructions and enhance pit clean-up operations
 VB42011F Laminated rubber bumpers per unit
 10 year structural warranty, 5 year hydraulic warranty

Item: Serco Dock Seal
Model: Serco Model S-600 Fixed header dock seal
Featuring: Head pad 120" wide x 12" face x 12" projection
 Side pad 108" long x 12" face x 12" backboard x 12" projection
 Designed to suit door opening 8' wide x 9' high and dock height 48"
 Base fabric: 40 oz.
 40 oz. Wear pleats with 4" exposure
 Full length 4" wide yellow guide stripe on vertical pads
 One year warranty

Item: Serco Loading Light
Featuring: 62" flexible arm extension
 2" diameter LED light

Item: Serco Wheel Chock
Featuring: Heavy Duty molded rubber Chock
 15' of galvanized chain
 Steel wall-mount bracket

Items: Serco Overhead Door
Model: Garaga G-5000
Features: Door size 8'0" wide x 9'0" high
 Foam Injected
 R-16 rating
 3" track and hardware
 Weatherseal package
 Continuous angle
 One window per door
 Option: Electric operator c/w chain hoist

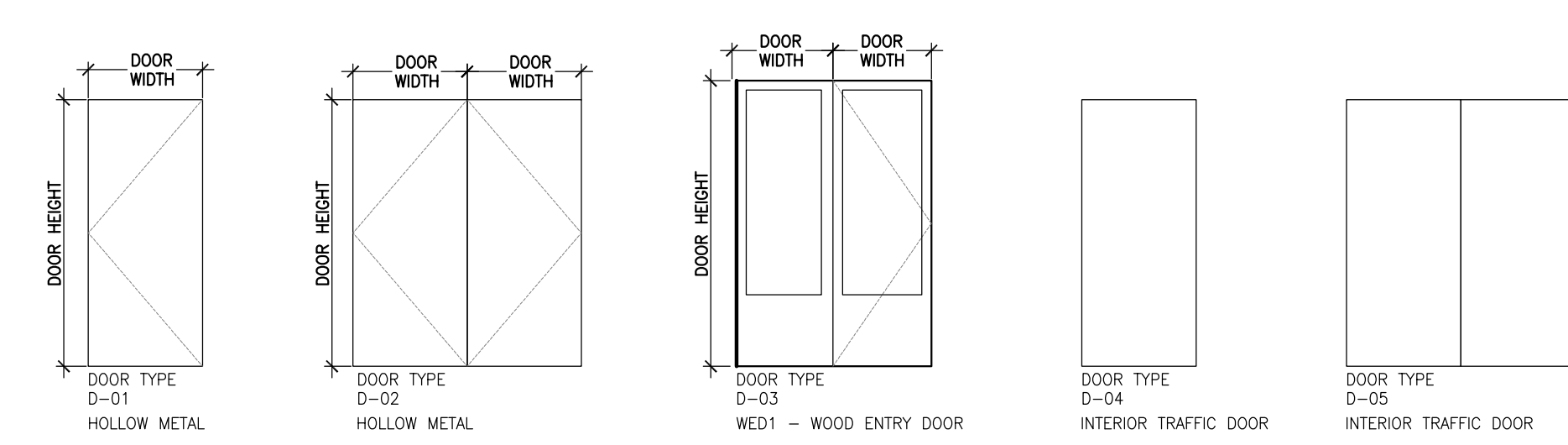
EXTERIOR DOOR SCHEDULE

LEVEL	ROOM#	ROOM NAME	DOOR#	DOOR				JAMB TYPE	FRAME			INSUL	FIRE RAT'G	HINGE	LOCK	PANIC HARDWARE	CLOSER	STOP	REMARKS
				WIDTH	HEIGHT	TYPE	MAT'L		FIN.	GLZING	TYPE								
1	101	EXIT VESTIBULE	D001	3188	2600	SED1	ALUM	-	TG	-	SEE SCREEN SCHED	YES	NO	Y	Y	Y	-	-	AUTOMATIC SLIDING DOOR W/ BREAKOUT PANELS REFER TO E3002 ON A710 - SCREEN SCHEDULE
1	102	ENTRY VESTIBULE	D002	3188	2600	SED1	ALUM	-	TG	-	SEE SCREEN SCHED	YES	NO	Y	Y	Y	-	-	AUTOMATIC SLIDING DOOR W/ BREAKOUT PANELS REFER TO E3002 ON A710 - SCREEN SCHEDULE
1	104	BAKERY DISPLAY	D003	2140	3000	D-03	WD	-	TG	-	-	-	NO	Y	Y	Y	Y	REFER TO W001 W/ OUTLINE SPEC.	
1	A	STAIR A	D004	1000	2150	D-01	HM	PT	-	-	F-01	HM	PT	YES	NO	Y	Y	Y	-
1	121	SERVICE	D005	1220	2150	D-01	HMI	PT	-	-	F-01	HMI	PT	YES	NO	Y	Y	Y	-
1	122	SERVICE - DOCK	D006	2440	2743	-	-	-	-	-	-	-	-	Y	-	-	-	-	REFER TO E008 - LOADING DOCK LEVELER, SEAL, ACCESSORIES, DOOR SPECIFICATION AND DETAILS
2	202	STAFF LOUNGE	D101	1000	2350	D-01	HM	PT	TG	-	SEE SCREEN SCHED	YES	NO	Y	Y	-	Y	-	REFER TO SCREEN SCHEDULE - THURSDAY 700
2	A	STAIR A	D102	1000	2150	D-01	HMI	PT	-	-	F-01	HMI	PTD	YES	NO	Y	Y	-	-

INTERIOR DOOR SCHEDULE

LEVEL	ROOM#	ROOM NAME	DOOR#	DOOR				JAMB TYPE	FRAME			INSUL	FIRE RAT'G	HINGE	LOCK	PANIC HARDWARE	CLOSER	STOP	REMARKS	
				WIDTH	HEIGHT	TYPE	MAT'L		FIN.	GLZING	TYPE									MAT'L
1	A	STAIR A	D011	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	NO	THR	Y	-	Y	-	-
1	115	UNIVERSAL WC	D012	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	NO	NO	Y	Y	-	Y	-
1	116	PRODUCE PREP/STOR.	D013	1220	2150	D-04	-	-	YES	-	-	-	-	-	-	-	-	-	-	INTERIOR TRAFFIC DOOR
1	119	MEAT PREP	D014	1220	2150	D-04	-	-	YES	-	-	-	-	-	-	-	-	-	-	INTERIOR TRAFFIC DOOR
1	121	SERVICE	D015	1600	2150	D-05	-	-	YES	-	-	-	-	-	-	-	-	-	-	INTERIOR TRAFFIC DOOR - NOTE 1625mm RD
1	121	SERVICE	D016	1830	2150	D-05	-	-	YES	-	-	-	-	-	-	-	-	-	-	INTERIOR TRAFFIC DOOR
1	113	WALKIN COOLER	D020	1220	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY COOLER/FREEZER SUPPLIER
1	114	WALKIN FREEZER	D021	1220	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY COOLER/FREEZER SUPPLIER
1	117	WALKIN PRODUCE	D022	1524	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY COOLER/FREEZER SUPPLIER
1	118	MEAT COOLER	D023	1524	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY COOLER/FREEZER SUPPLIER
1	120	FREEZER	D024	1524	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY COOLER/FREEZER SUPPLIER
1	122	WALKIN DAIRY	D025	1524	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY COOLER/FREEZER SUPPLIER
1	123	WC	D026	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	NO	NO	Y	Y	-	Y	-
2	208	ELEC	D110	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	THR	Y	Y	-	Y	-
2	206	STORAGE	D111	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	Y	Y	-	Y	-	-
2	204	PRIVATE OFFICE	D112	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	Y	Y	-	Y	-	-
2	205	SHOWER/WC	D113	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	Y	Y	-	Y	-	-
2	207	STORAGE	D114	2000	2150	D-02	HM	PT	NO	-	F2	HM	PT	-	Y	Y	-	Y	Y	-
2	201	CORRIDOR	D115	900	2150	D-02	HM	PT	NO	-	F2	HM	PT	-	Y	Y	-	Y	-	-
2	203	OPEN OFFICE	D116	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	Y	Y	-	Y	Y	-
2	A	STAIR A	D117	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	THR	Y	Y	-	Y	-

DOOR LEGEND:	NA NOT APPLICABLE	PT PAINT	AR ADAMS RITE	CL CYLINDRICAL LOCK	***REFER TO A700 FOR ALUMINUM SCREENS AND GLAZING
ALUM ALUMINUM	TD TEMPERED GLASS	AR ADAMS RITE	CL CYLINDRICAL LOCK	CVR CONCEALED VERTICAL ROD EXIT DEVICE	
ANOD ANODIZED	CH CONTINUOUS HINGE	CH CONTINUOUS HINGE	DL MORTISE DEADLOCK	CONC CONCEALED DOOR CLOSER	
CL CLEAR FINISH	S/W STANDARD WEIGHT BUTT HINGE	S/W STANDARD WEIGHT BUTT HINGE	PP PUSH/PULL	REGU SURFACE DOOR CLOSER	
HM HOLLOW METAL	H/W HEAVY WEIGHT BUTT HINGE	H/W HEAVY WEIGHT BUTT HINGE	RM RM EXIT DEVICE	COHS CONCEALED OVERHEAD STOP	
INSUL INSULATED	FB FLUSH BOLT (INACTIVE LEAF)	FB FLUSH BOLT (INACTIVE LEAF)	SVR SURFACE VERTICAL ROD DEVICE WITH EXTERIOR TRIM	SOHS SURFACE OVERHEAD STOP	



01 DOOR TYPE (N.T.S.)

02 FRAME TYPES (N.T.S.)

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REVISIONS AND ISSUES

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3	REVISION TO BUILDING PERMIT	220315	AB
4	SI-01	220615	AB
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 maclellan jaunkalns miller architects
 425 adelade street west level 6
 Toronto Ontario M5V 3C1
 416 593 4794
 www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 229 BROADWAY, UNIT 1
 ORANGEVILLE, ONTARIO, L9W 1K4
 TEL 519 941 0330 FAX 519 941 1830

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 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
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 MECHANICAL AND ELECTRICAL ENGINEERS
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 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 E. 705.856.4531
 e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**DOOR SCHEDULE
 AND DETAILS**

SCALE
NTS

DATE
JULY 15, 2022

PROJECT NUMBER
2102

DRAWING NUMBER

A700

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macLennan jaunkalns miller architects
425 adelaida street west level 6
toronto ontario m5v 3c1
416 593 4794
www.mjmaarchitects.com

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CIVIL ENGINEERS
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ORANGEVILLE, ONTARIO, L9W 1K4
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TORONTO, ONTARIO, M5V 2H2
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MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E. 705.806.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL



PROJECT TITLE

**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

**EXTERIOR & INTERIOR
SCREEN SCHEDULES**

SCALE

1:50

DATE

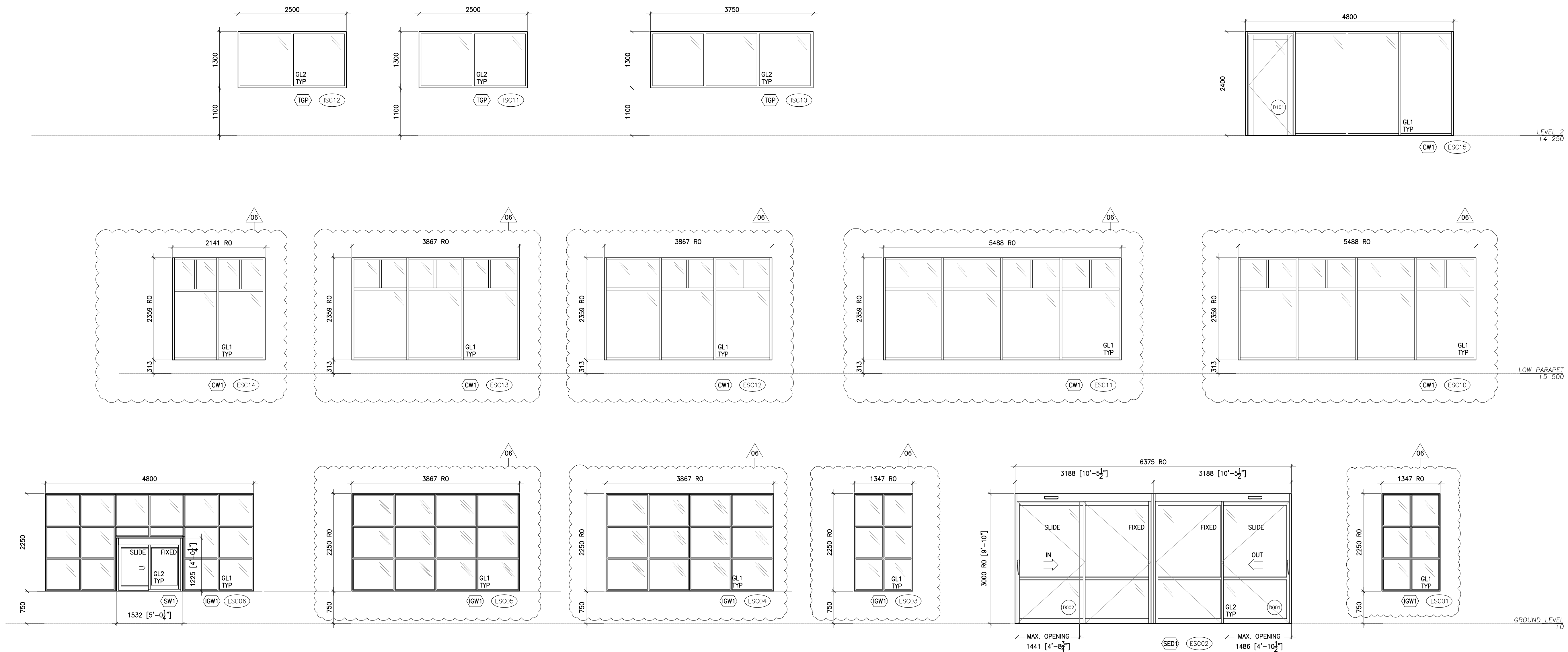
JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A710



GLAZING SCHEDULE					
GLASS TYPE	LITE TYPE AND THICKNESS		TYPE	SURFACE	GLAZING NOTE
	OUTER	INNER			
GL1	FT 6mm	FT 6mm	DOUBLE SILVER	#2	TYPICAL EXTERIOR GIL WASH-FILLED DESIGNER-FILLED WASH-EDGE SPACER BAR.
GL2	FIRE-RATED CERAMIC GLAZING	-	-	-	SEE OUTLINE SPEC.

FRAME TYPE

CW1 INTERIOR GLAZED WINDOW

ALUMINUM SHOWERWALL SYSTEM - THERMALLY BROKEN

FINISH: 13mm PERFORMANCE ALUM. SECTIONS

COLOUR: CUSTOM (TBS)

CW1 CURTAIN WALL

ALUMINUM THERMALLY BROKEN - THERMALLY BROKEN

SHOWERWALL SYSTEM - THERMALLY BROKEN

FINISH: 13mm PERFORMANCE ALUM. SECTIONS

COLOUR: CUSTOM (TBS)

SED1 AUTOMATIC SLIDING ENTRANCE DOORS

HORTON AUTOMATICS - PROSLIDE SERIES 2021

SLIDING DOOR SYSTEM WITH ELECTRIC BELT DRIVE OPERATOR

DOOR TYPE: 310 - SI, R, S, D

OPERATOR: SHEET METAL/PNEUMATIC DETECTORS AND

M/S MANUAL LOCKING

FINISHED COLOUR - CUSTOM (TBS)

SW1 SLIDING SERVICE WINDOW

HORTON AUTOMATICS - SERIES 8800

DOOR TYPE: 310 - SI, R, S, D

HEADER: 6mm LOW-PROFILE

OPERATOR: 6mm LOW-PROFILE

LOCK: TWIN LOCK

FINISHED COLOUR - CUSTOM (TBS)

FP1 FIRE RATED GLASS AND FRAMING

FIRE-RATED METAL FRAME AND GLAZING (GMBL WALL FP1)

GLAZING SCHEDULE LEGEND

GLASS TYPE: LOW-E COATING

FT FULLY TEMPERED

DS DOUBLE SILVER

FR1 TYPE: SOLID OPAQUE FRIT

FR2 LAMINATED INTER-LAYER

FR3 POLYMER BUTYRAL

GLAZING NOTES:

1. GLASS FINISHES WITH MINIMUM AND AS REQUIRED TO MEET DESIGN REQUIREMENT.

2. LAMINATED GLASS GLASS LAYERS MINIMUM 3mm THICK UNLESS OTHERWISE INDICATED.

3. DIMENSIONS INDICATED ARE NOMINAL. ALL DIMENSIONS TO BE SET WORKED.

4. DECORATED FOR GLASS UNITS WHERE REQUIRED. INDICATE LOCATION ON SHOP DRAWING.

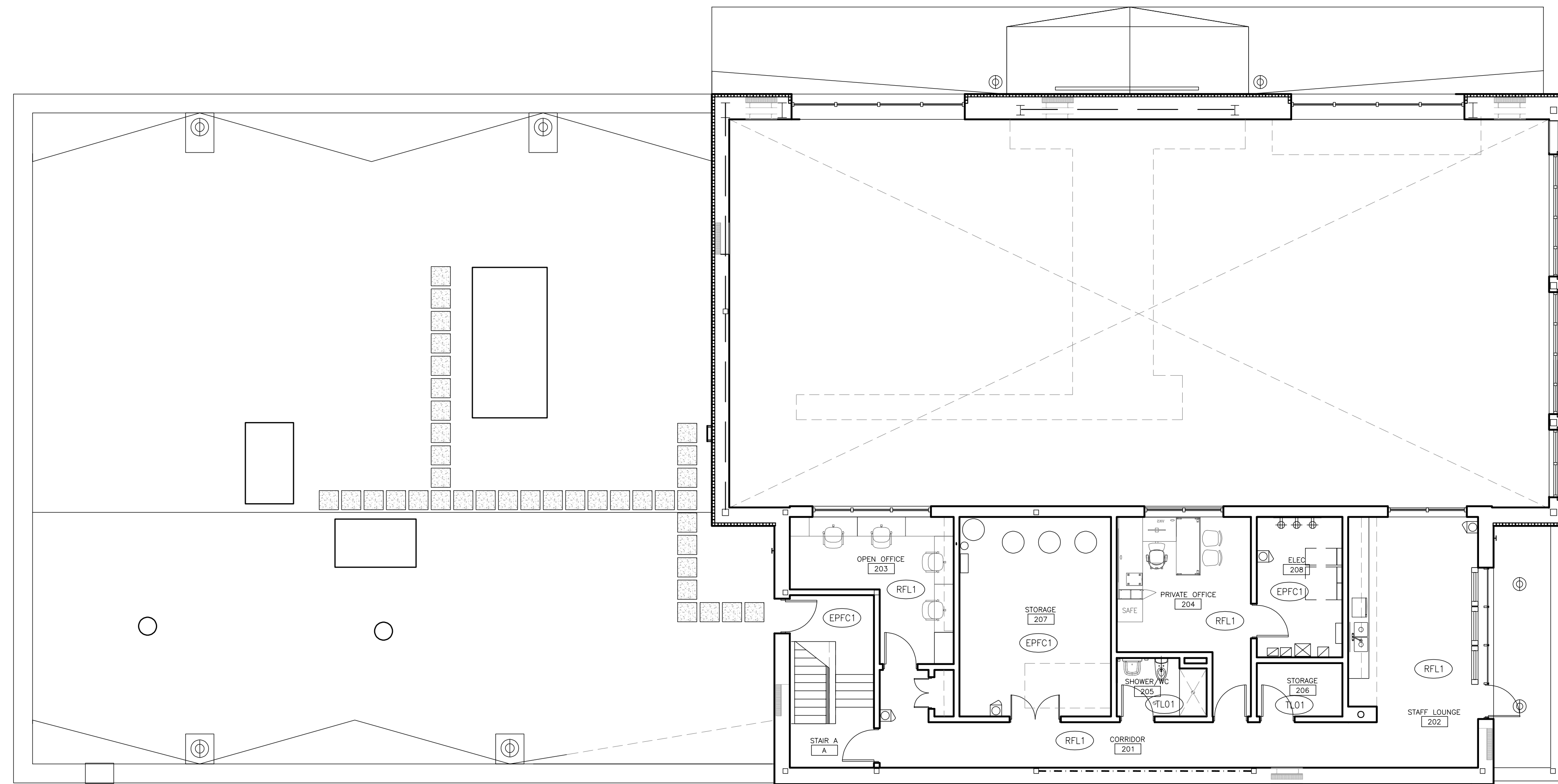
CURTAINWALL NOTES:

1. PROVIDE REINFORCING IN ALUM SECTION AS NECESSARY TO MAINTAIN SECTIONS AS SHOWN.

2. SEE PROJECT MANUAL AND DOOR SCHEDULE FOR GLAZED ALUM DOORS.

3. DIMENSIONS INDICATED ARE NOMINAL. ALL DIMENSIONS TO BE SET WORKED.

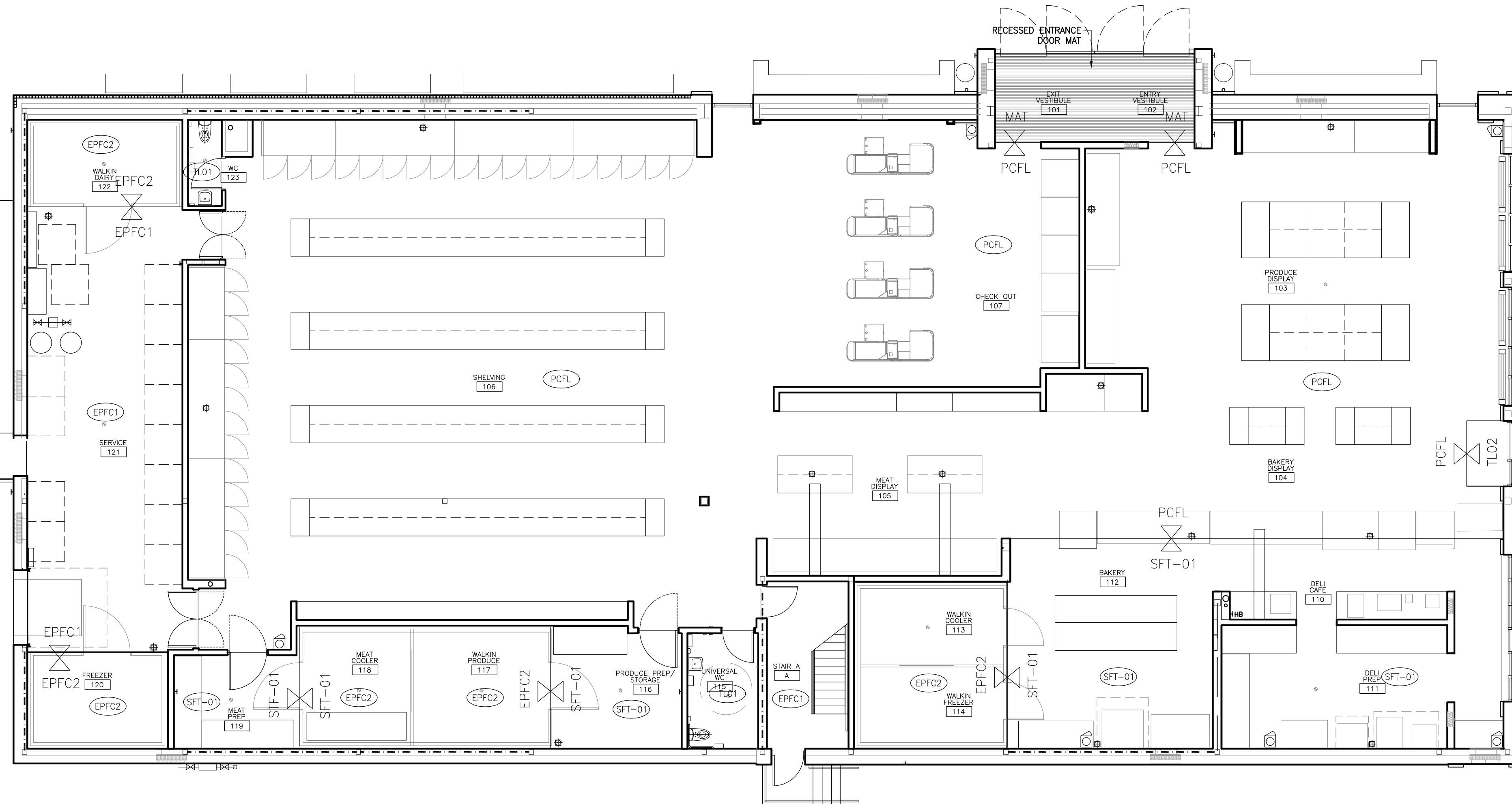
4. ALL FRAMES TO RECEIVE DURANAR XL PPS FINISH UNLESS OTHERWISE NOTED.



4 LEVEL 2 FINISH PLAN
1:100

- FINISH NOTES**
 *USE TILE BACKER BOARD TYP. FOR ALL WALL SURFACES DIRECTLY ADJACENT TO INSULATED COOLERS/FREEZERS
- INTERIOR FINISHES LEGEND**
- (PCFL) POLISHED CONCRETE FLOOR
 - (C-OSB) WOOD CEILING PANEL (OSB)
 - (CC1) CEMENT CLADDING - BOARD AND BATTEN TEXTURE
 - (CC2) DECORATIVE WALL PANELING
 - (TL01) FLOOR TILE 300mm X 300mm
 - (TL02) FLOOR TILE - CUSTOM PATTERN 25mm HEX
 - (TL10) WALL & CEILING TILE 100mm X 400mm
 - (TL11A) WALL & CEILING TILE - WHITE 1"x6"
 - (TL11B) WALL & CEILING TILE - GREEN 1"x6"
 - (TL12) BACKSLASH TILE 3"x6"
 - (ACT1) ACOUSTIC CEILING TILE 2'X4'
 - (SFT-01) SAFETY FLOORING
 - (RFL1) RESILIENT FLOOR
 - (RB1) RUBBER BASE
 - (EPFC1) EPOXY FLOOR COATING
 - (EPFC2) EPOXY FLOOR COATING
 - (PT1) PAINT (WHITE)
 - (PT2) PAINT (CHARCOAL)
 - (PT3) PAINT (TBD)
 - (WP1) WALL PROTECTION PANEL
 - (MAT) ENTRANCE FLOOR MAT

2 INTERIOR FINISH LEGEND



3 GROUND LEVEL FINISH PLAN
1:100

ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR	BASE	CEILING	NORTH	EAST	SOUTH	WEST	COMMENTS
101	ENTR VESTIBULE	WAT	TL11A	CC2	TL11A	GL	TL11A	TL11A	
102	ENTR VESTIBULE	WAT	TL11B	CC2	TL11B	GL	TL11B	TL11B	
103	PRODUCE DISPLAY	PCFL	CC2/TL11A/RB1	EXP	PT1	CC2/PT1	CC2/PT1	CC2/PT1	
104	BAKERY DISPLAY	PCFL/TL02	CC2/RB1	EXP	PT1	CC2/PT1	CC2/PT1	CC2/PT1	
105	MEAT DISPLAY	PCFL	TL02/RB1	EXP	PT1	TL02/PT1	TL02/PT1	TL02/PT1	
106	SHELVING	PCFL	RB1	EXP	PT1	PT1	PT1	PT1	
107	CHECK OUT	PCFL	CC2/RB1	EXP	CC2/PT1	CC2/PT1	PT1	PT1	
110	DELI CASE	SFT01	SFT01	OSB/TL11B	TL11B	CC1	TL11B	TL11B	
111	DELI PREP	SFT01	SFT01	TL10	TL10	TL10	TL10	TL10	
112	BAKERY	SFT01	SFT01	OSB/TL11B/PT1	TL10	PT1	TL10	TL10	
113	WALKIN COOLER	EPFC2	RB1	FRZ/EXP	PT1	PT1	PT1	PT1	MUSE TILE BACKER BOARD FOR WALLS
114	WALKIN FREEZER	EPFC2	RB1	FRZ/EXP	PT1	PT1	PT1	PT1	MUSE TILE BACKER BOARD FOR WALLS
115	UNIVERSAL WC	TL01	TL10	PT1	TL10	TL10	TL10	TL10	
116	PRODUCE PREP/STORAGE	SFT01	WPT	EXP	WPT	WPT	WPT	WPT	
117	WALKIN PRODUCE	EPFC2	RB1	FRZ/EXP	PT1	PT1	PT1	PT1	MUSE TILE BACKER BOARD FOR WALLS
118	MEAT COOLER	EPFC2	RB1	FRZ/EXP	PT1	PT1	PT1	PT1	MUSE TILE BACKER BOARD FOR WALLS
119	MEAT FREEZ	SFT01	WPT	EXP	WPT	WPT	WPT	WPT	
120	FREEZER	EPFC2	RB1	FRZ/EXP	PT1	PT1	PT1	PT1	MUSE TILE BACKER BOARD FOR WALLS
121	SERVICE	EPFC1	WPT	EXP	WPT	WPT	WPT	WPT	
122	WALKIN DAIRY	EPFC2	RB1	FRZ/EXP	PT1	PT1	PT1	PT1	MUSE TILE BACKER BOARD FOR WALLS
123	MEAT	TL01	TL10	PT1	TL10	TL10	TL10	TL10	
124	STAIR A	EPFC1	RB1	EXP	PT1	PT1	PT1	PT1	
201	CORRIDOR	RB1	RB1	OSB	PT1	PT1	PT1	PT1	
202	STAFF LOUNGE	RB1	RB1	OSB	PT1/TL12	PT1	PT1	PT1	
203	OPEN OFFICE	RB1	RB1	ACT1	PT1	PT1	PT1	PT1	
204	PRIVATE OFFICE	RB1	RB1	ACT1	PT1	PT1	PT1	PT1	
205	SHOWER/WC	TL01	TL10	OSB/TL10	TL10	TL10	TL10	TL10	TL10 FOR CEILING ABOVE SHOWER
206	SHOWER	TL01	TL10	OSB	TL10	TL10	TL10	TL10	
207	STORAGE	EPFC1	RB1	EXP	PT1	PT1	PT1	PT1	
208	ELECTRICAL ROOM	EPFC1	RB1	EXP	PT1	PT1	PT1	PT1	

1 ROOF FINISH SCHEDULE

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MJMA
 macleanen jaunkalns miller architects
 425 adelaide street west level 6
 toronto ontario m5v 3c1
 416 593 4794
 www.mjmaarchitects.com

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 CIVIL ENGINEERS
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 ORANGEVILLE, ONTARIO, L9W 1K4
 TEL 519 941 0330 FAX 519 941 1830

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 TORONTO, ONTARIO, M5V 2H2
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 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 E. 705.856.4531
 e: sayers@apsley.ca

PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE
 FINISH FLOOR PLANS
 AND SCHEDULE

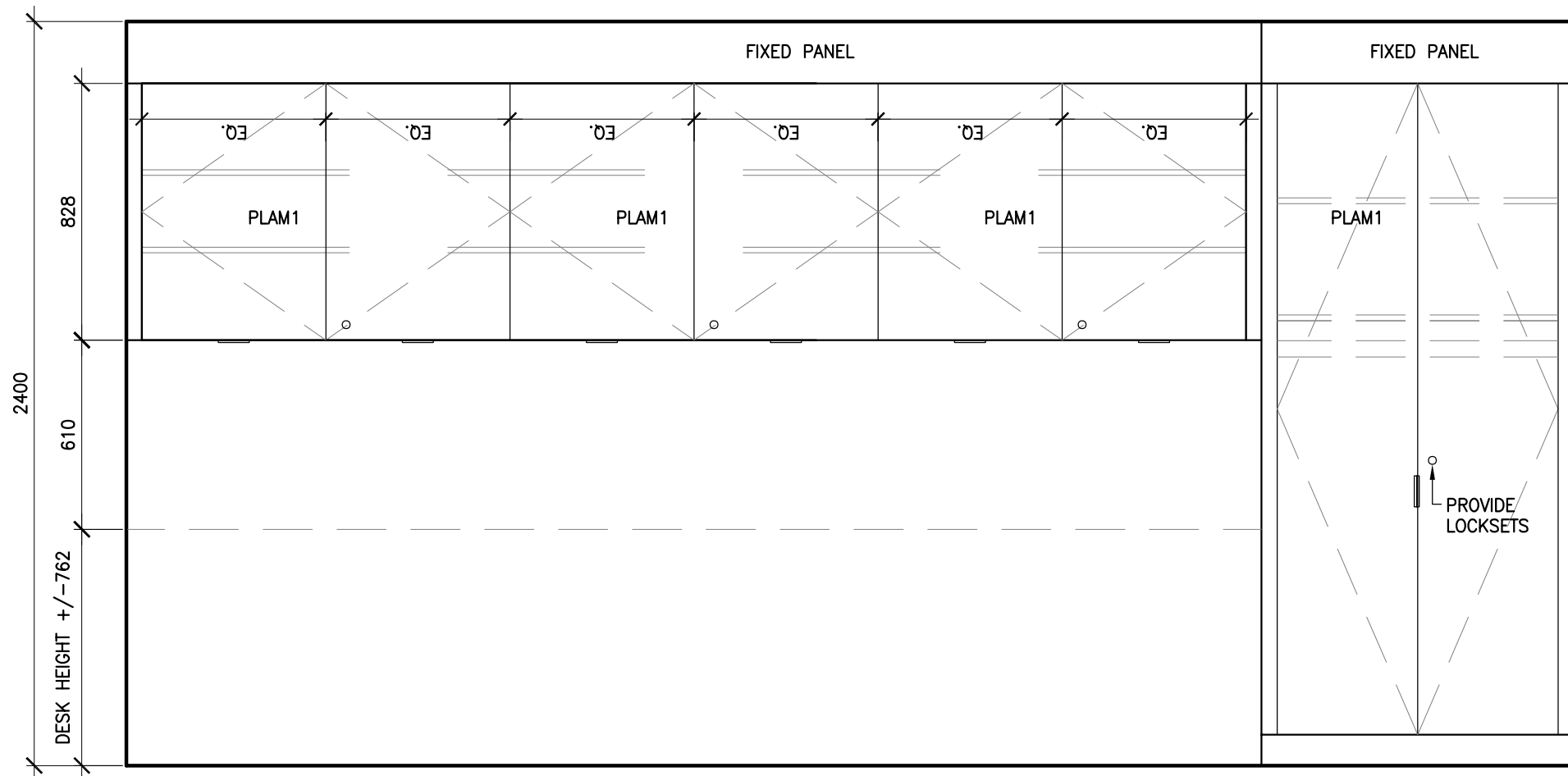
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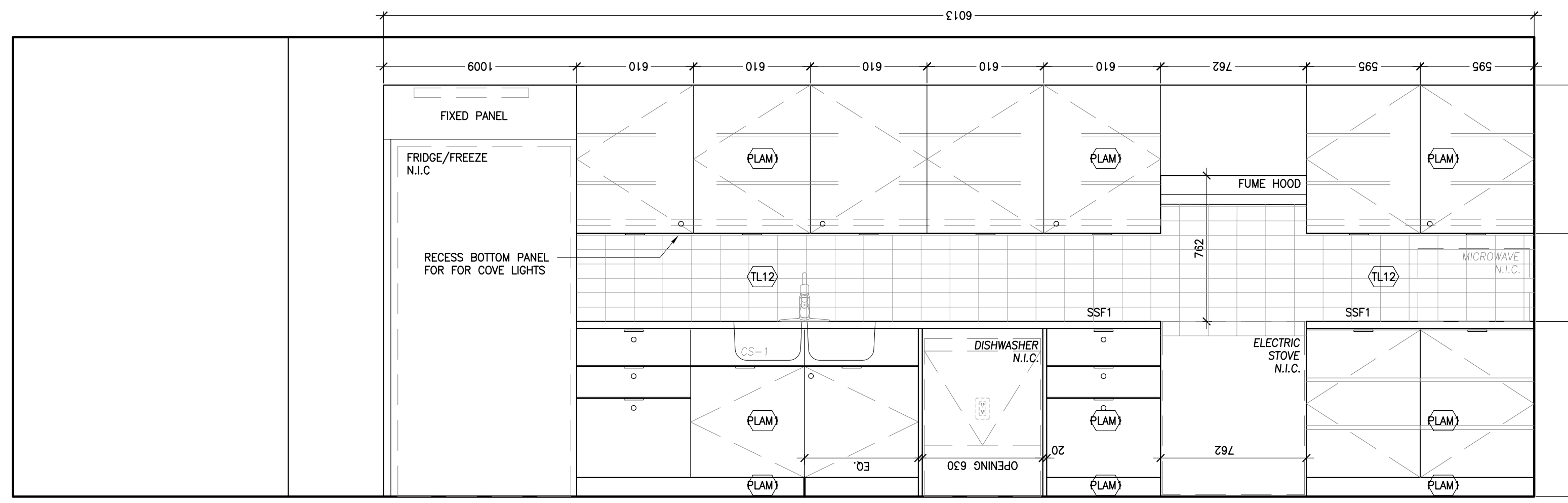
PROJECT NUMBER
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DRAWING NUMBER
 A800

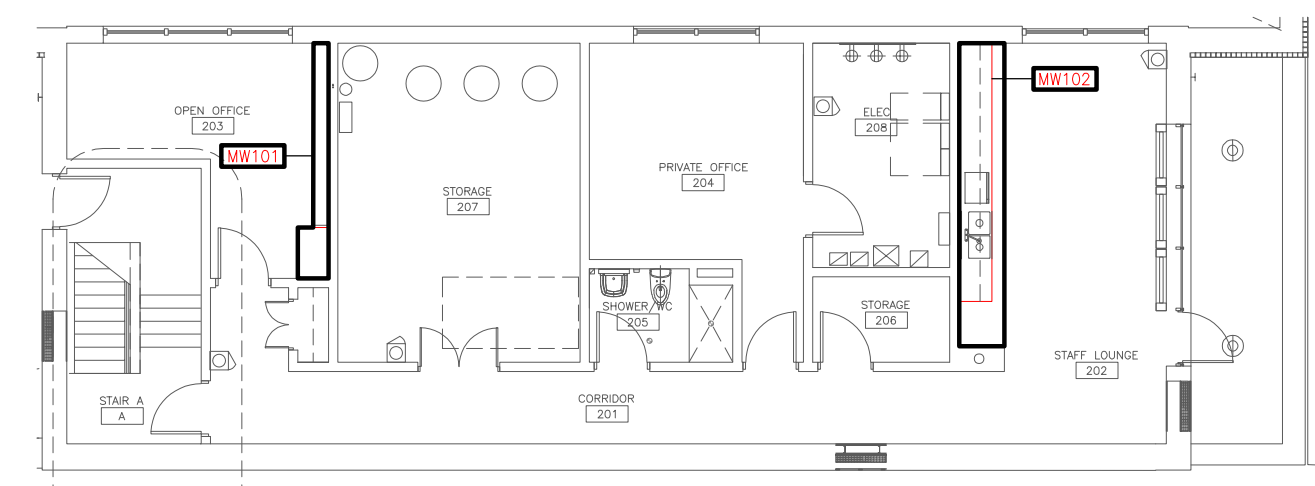
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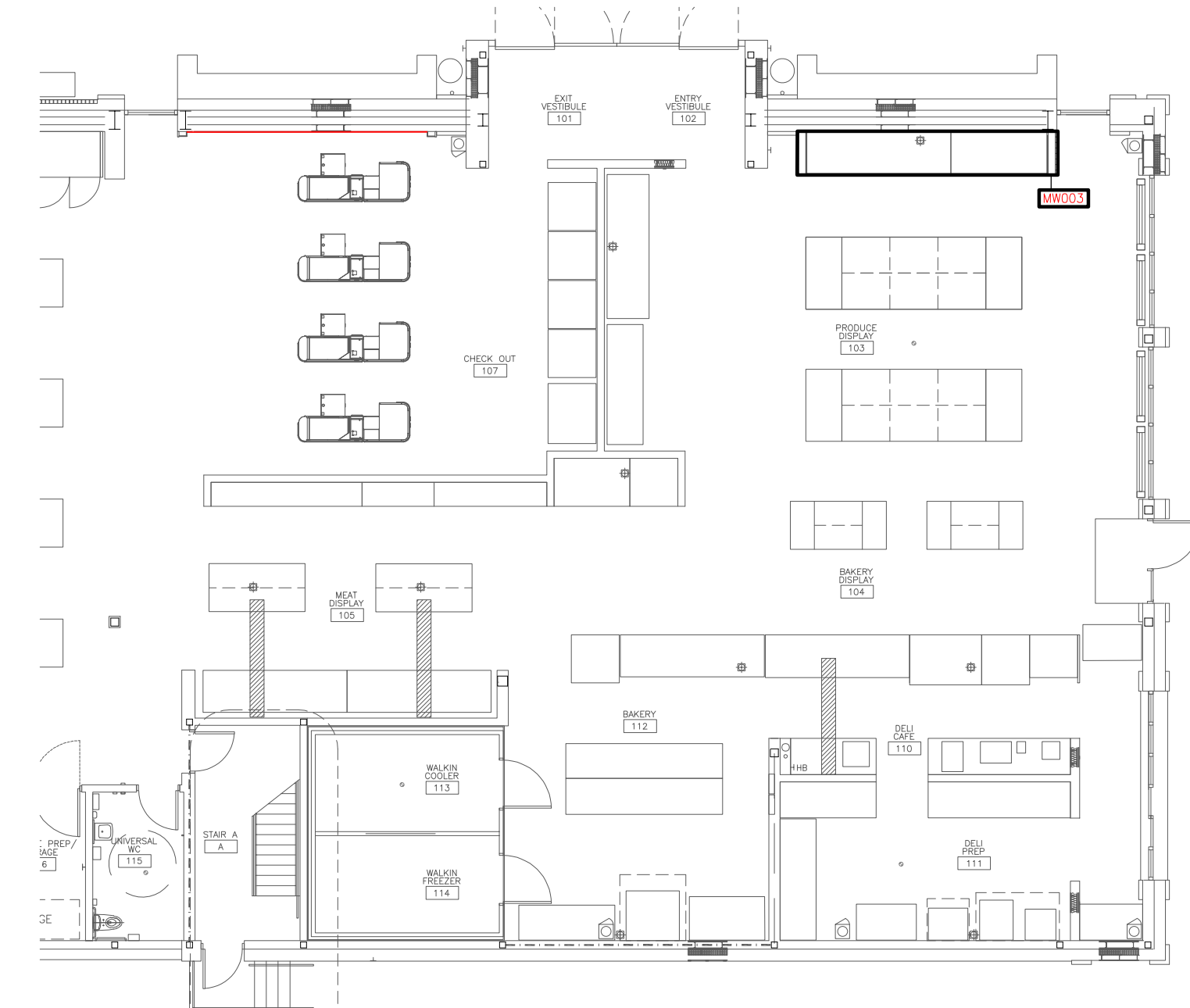
9 MW101 - STAFF CLOSET/UPPERS
1:20 - ELEVATION



4 MW102 - KITCHEN CABINETS
1:20 - ELEVATION



3 LEVEL 2 MW PLAN
1:150



2 GROUND LEVEL MW PLAN
1:150

MILLWORK SCHEDULE					
MARK	ROOM NUMBER	ROOM NAME	DESCRIPTION	COUNT	REFERENCE
MW003	103	PRODUCE DISPLAY	PRODUCE DISPLAY SURROUND	1	A901
MW101	203	OPEN OFFICE	UPPER CABINETS & FULL HEIGHT STORAGE	1	A900
MW102	202	STAFF LOUNGE	UPPER AND LOWER KITCHEN CABINETS	1	A900

1 MILLWORK SCHEDULE

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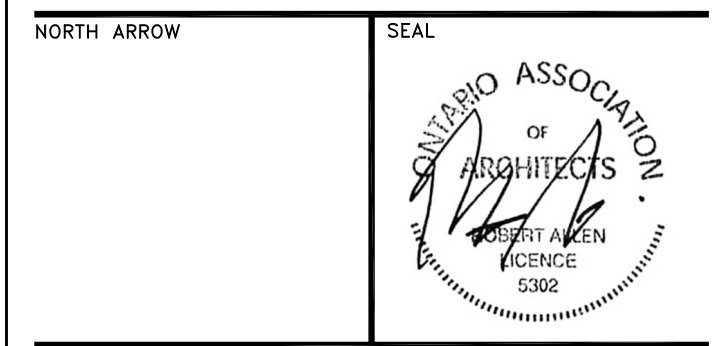
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CIVIL ENGINEERS
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ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
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132 BURLEIGH STREET
E. 705.856.4531
e: sayers@apsley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
MILLWORK DRAWINGS

SCALE
AS NOTED
DATE
JULY 15, 2022

PROJECT NUMBER
2102
DRAWING NUMBER

A900

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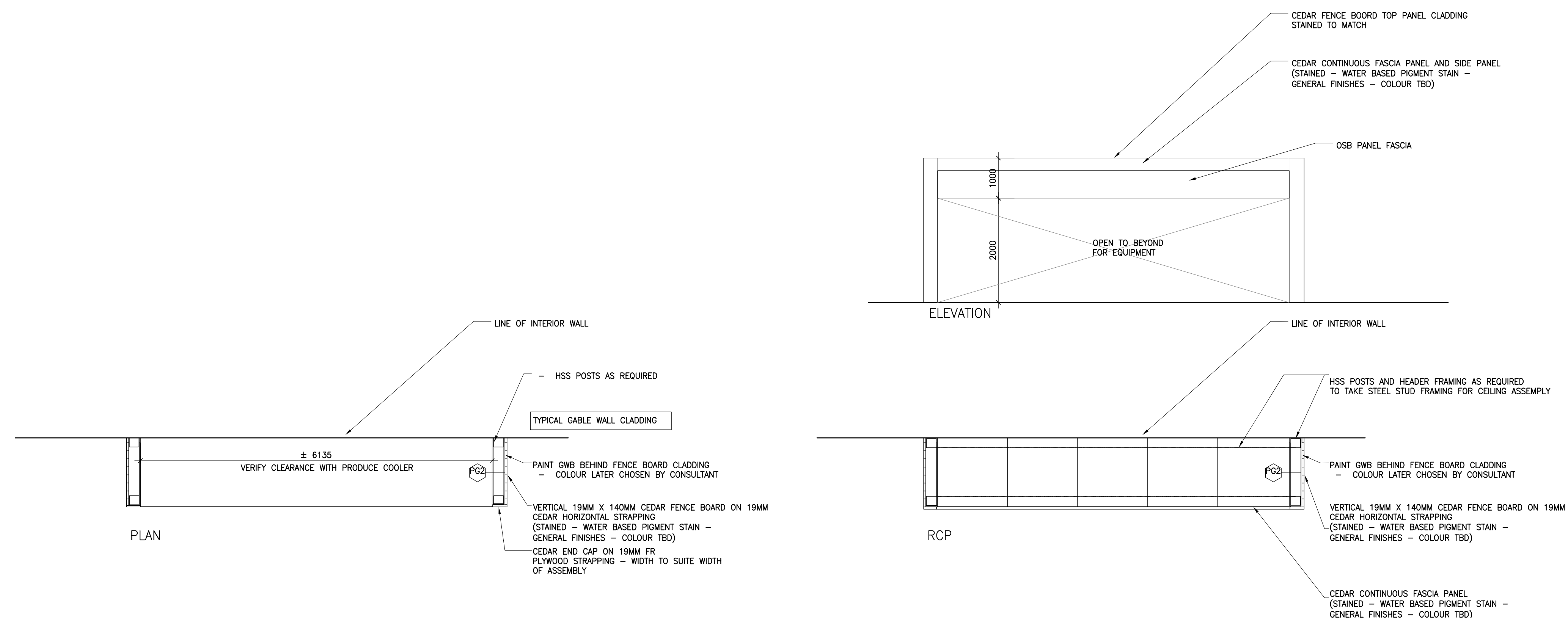
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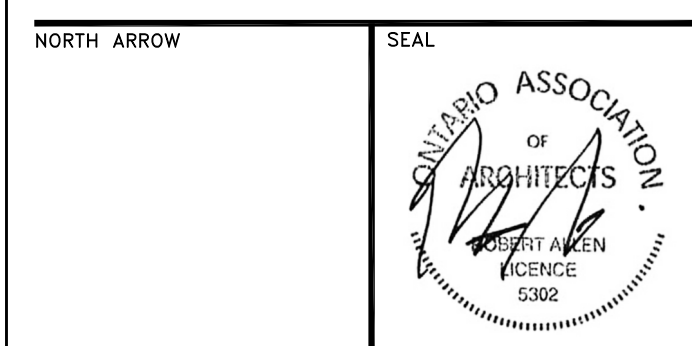
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TORONTO, ONTARIO, M2N 6N5
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2 MW 003 - PRODUCE COOLER KIOSK
1:50

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132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca



PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

MILLWORK DRAWINGS

SCALE

AS NOTED

DATE

JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A901



6 SOUTH STREETScape



3 DELI CAFE 2



5 SOUTH ENTRY



2 DELI CAFE 1



4 PRODUCE DISPLAY



1 PRODUCE DISPLAY

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416 593 4796
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
229 BROADWAY, UNIT 1
ORANGEVILLE, ONTARIO, L9W 1K4
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL

STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151

SAYERS FOOD LIMITED

132 BURLEIGH STREET
E 705.856.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL



PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

RENDERINGS

SCALE

AS NOTED

DATE

JULY 15, 2022

PROJECT NUMBER

2102

DRAWING NUMBER

A970

010000 GENERAL

- 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.
- READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
- 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.
- 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.
- 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.
- HORIZONTAL AND VERTICAL DESIGN LOADS ARE NOTED. THEY SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- TYPICAL STRUCTURAL DETAILS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON THE DRAWINGS, THE MOST STRINGENT SHALL GOVERN.
- CONTRACTOR TO PROVIDE AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY WORKS.
- 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, TECHNIQUES, SEQUENCES, PROCEDURES, TEMPORARY SHORING AND/OR BRACING, TEMPORARY OPENINGS, EXCAVATION SHORING, ERECTION PROCEDURES, ETC.
- SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

010001 DESIGN NOTES

- THE BUILDING IS DESIGNATED AS BELONGING TO THE NORMAL IMPORTANCE CATEGORY, AS DEFINED IN THE OBC 2012.
- ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD A23.3.
- ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S16.
- LATERAL FORCES ON STRUCTURAL FRAME
 - THE LATERAL FORCES ARE RESISTED BY THE STEEL BRACED FRAME AND MOMENT FRAME SYSTEMS.
 - THE FRAME IS NOT STABLE UNTIL THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
 - 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).
 - EXPOSURE CONDITION: ROUGH TERRAIN.
 - THE IMPORTANCE FACTOR, *I_w*, FOR WIND DESIGN IS 1.0. FOR DEFLECTION ANALYSIS, THE FACTOR IS 0.75.
 - 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).
 - EARTHQUAKE:
 - THE DESIGN OF THE STRUCTURE FOR EARTHQUAKE IS BASED ON:
 - I_e* = 1.0
 - SITE CLASS = D
 - S_a*(0.2) = .151
 - S_a*(0.5) = .105
 - S_a*(1.0) = .063
 - S_a*(2.0) = .032
 - PGA = .090
 - R_d* = 1.5
 - R_o* = 1.3
 - F_a* = 1.24
 - F_v* = 1.55
 - M_v* = 1.0
 - THE SEISMIC HAZARD INDEX FOR THIS SITE IS:
 - I_EF_aS_a*(0.2) = 0.24
 - 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
 - THE DESIGN EARTHQUAKE FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012.
 - THE BUILDING'S STRUCTURAL CONFIGURATION IS DESIGNATED AS REGULAR.
- LATERAL FORCES ON FOUNDATION WALLS
 - WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND A HORIZONTAL PRESSURE AT ANY DEPTH (h) GIVEN BY THE EXPRESSION:

$$P = K (\gamma h + q) \quad \text{WHERE}$$

K IS THE LATERAL EARTH PRESSURE COEFFICIENT
P IS THE PRESSURE EXERTED HORIZONTALLY
h IS THE DEPTH BELOW GRADE
γ IS THE UNIT WEIGHT OF SOIL
q IS THE SURCHARGE ON THE GROUND SURFACE
 - THE ADDITIONAL SEISMIC PRESSURE CONSIDERED IN CONJUNCTION WITH THE STATIC PRESSURE ABOVE IS GIVEN BY THE EXPRESSION:

$$P = 0.75 k \gamma (H - h) \quad \text{FOR A NON RIGID WALL}$$

$$P = 0.25 k \gamma H \{1 - [(H - 2h)/H]^2\} \quad \text{FOR A RIGID WALL}$$

WHERE

$$k = \frac{K}{\gamma H} \text{ IS THE DESIGN PEAK HORIZONTAL GROUND ACCELERATION COEFFICIENT (F_a x K_{GA})}$$

H IS THE HEIGHT OF GRADE ABOVE THE LOWEST LATERAL RESTRAINT
- FOUNDATION AND OTHER WALLS RETAINING EARTH HAVE BEEN DESIGNED FOR SURCHARGE OF 12 kPa.
- 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.
- SNOW LOADS ON ROOFS
 - THE ROOFS HAVE BEEN DESIGNED WITH *S_s* = 3.1 kPa AND *S_r* = 0.4 kPa.
 - THE IMPORTANCE FACTOR, *I_s*, IS 1.0 FOR ULS AND 0.9 FOR SLS.
 - ADDITIONAL SNOW ACCUMULATIONS ADJACENT TO HIGHER WALLS, ROOFS AND MECHANICAL UNITS ARE INDICATED ON THE DRAWINGS.
- RAINWATER LOADS ON ROOFS
 - THE ROOFS HAVE BEEN DESIGNED FOR NO FLOW.
- WIND UPLIFT OF ROOFS
 - 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.
- LIVE AND OTHER LOADS
 - SEE NOTES BELOW FLOOR PLANS.

10. FUTURE EXTENSIONS

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

010004 SUBMITTALS

- GEOMETRY
 - SUBMIT SURVEY RECORDS CONFIRMING THAT THE BUILT GEOMETRY MATCHES THE DESIGN GEOMETRY.
- CONCRETE AND REINFORCEMENT
 - SUBMIT REINFORCING PLACING DRAWINGS AND BAR LISTS FOR REVIEW BY THE CONSULTANT.
 - PROVIDE TEST CYLINDERS IN ACCORDANCE WITH CAN3-A23.1 BUT A MINIMUM OF 3 CYLINDERS FROM EACH LOAD OF CONCRETE, TO BE TESTED; 1 AT 7 DAYS AND 2 AT 28 DAYS.
- STRUCTURAL STEEL
 - DESIGN DETAILS, CONNECTIONS, AND THE LIKE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE FOR THE FORCES SHOWN ON THE DRAWINGS.
 - SUBMIT SKETCHES AND DESIGN CALCULATIONS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN PROVINCE OF ONTARIO FOR NON STANDARD CONNECTIONS.
 - SUBMIT SHOP, ERECTION, AND SETTING DRAWINGS FOR REVIEW BY THE CONSULTANT.
 - ENSURE FABRICATOR DRAWINGS SHOWING DESIGNED ASSEMBLIES, COMPONENTS AND CONNECTIONS ARE STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- STEEL JOISTS
 - DESIGN STEEL JOISTS, BRIDGING, AND THE LIKE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE FOR THE FORCES SHOWN ON THE DRAWINGS.
 - SUBMIT SHOP DETAILS AND ERECTION DRAWINGS FOR REVIEW BY THE CONSULTANT.
 - SUBMIT DRAWINGS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- METAL DECK
 - DESIGN DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CAN/CSA-S136, FOR THE FORCES SHOWN ON THE DRAWINGS.
 - SUBMIT SHOP DRAWINGS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- LIGHTWEIGHT STEEL FRAMING
 - SUBMIT SHOP AND ERECTION DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR REVIEW BY THE CONSULTANT.

030000 CONCRETE

- MATERIALS
 - CONCRETE
 - CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS CONTENT AND AIR CONTENT.
 - NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 20 mm. USE SMALLER AGGREGATES AS APPROPRIATE IN AREAS OF CONGESTED REINFORCING STEEL OR TO IMPROVE WORKABILITY. MODIFY MIX DESIGNS TO SUIT.
- | CATEGORY | DESCRIPTION | EXPOSUR E CLASS PER A23.1 | CONCRETE STRENGTH f _c (MPa) | MAX. W/C RATIO | AIR CONTENT ¹ | 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 ² | 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 SIDEWALKS |
| 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. ³ | | 4-6% (EXTERIOR ONLY) | UNSHRINKABLE FILL |
| CM 15 | SELF CONSOLIDATING MIX | | 30 | | | FOR USE WHERE CONVENTIONAL VIBRATION IS NOT VIABLE |

- WHERE AGGREGATES SMALLER THAN 14 mm ARE USED, INCREASE AIR CONTENT BY 1%
 - REINFORCED CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE DCI CORROSION INHIBITOR @ 1%*l_{cu}*,m. DOSAGE OR APPROVED EQUIVALENT
 - MAX. 25kg CEMENT/*l_{cu}*,m.
- REINFORCEMENT:
 - CONFORM TO THE REQUIREMENTS OF CSA STANDARD G30 SERIES.
 - REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH *f_y* = 400 MPa, AND WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF *f_y* = 386 MPa. SUPPLY IN FLAT SHEETS.
 - WHERE WELDING OF REBAR IS INDICATED, WELDABLE GRADE REBAR SHALL BE USED.
 - EXECUTION
 - CONCRETE AND REINFORCEMENT
 - 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.
 - CONSTRUCTION JOINTS:
 - HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS OR JOISTS, UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.
 - VERTICAL CONSTRUCTION JOINTS MAY BE MADE ONLY AT MID-SPAN OF BEAMS, JOISTS, AND SLABS UNLESS OTHERWISE SHOWN OR DIRECTED AND THEIR LOCATION SHALL BE REVIEWED BY THE CONSULTANT.
 - PROVIDE 38x89 KEYS AT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
 - NO SLEEVES TO BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS WITHOUT BEING REVIEWED BY THE CONSULTANT.
 - NO OPENINGS SHALL BE MADE IN FLAT SLAB COLUMN STRIPS UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.
 - WELDING OF REBAR SHALL BE DONE IN ACCORDANCE WITH CSA W186.
 - CONCRETE COVER TO REINFORCEMENT:
 - 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:

LOCATION OR MEMBER	FIRE RATING (HOURS)				
	UP TO 1	1.5	2	3	4
BEAMS AND GIRDERS (PRINCIPAL REINFORCEMENT) 35M AND SMALLER	40	40	40	40	50
45M	45	45	45	45	50
55M	55	55	55	55	55
SLABS – 25M AND SMALLER	25	25	25	35	40

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		

- 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
- PROTECTION
 - PROTECT CONCRETE EXPOSED TO DE-ICING SALTS IN ACCORDANCE WITH THE FOLLOWING TABLE. REFER TO THE 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 MEMBRANE) INCLUDING CURBS AND WALLS.
CP 4	CATHODIC PROTECTION	NONE
- WATERSTOPS
 - PROVIDE WATERSTOPS AT ALL CONCRETE JOINTS MORE THAN 600 MM BELOW GRADE.

050000 STRUCTURAL STEEL

- MATERIALS
 - WIDE FLANGE SHAPES - CONFORM TO THE REQUIREMENTS OF ASTM A992/A992M, Fy=345MPa
 - 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.
 - HSS PRODUCED TO ASTM A1085 IS AN ACCEPTABLE ALTERNATE TO CSA G40.21 350W CLASS C.
 - CHANNELS AND ANGLES – CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 350W
 - PIPE - ASTM A53/A53M
 - BOLTS, NUTS AND WASHERS – [ASTM F3125, GRADE A325]¹
 - WELDS- CONFORM WITH CSA W59-03
 - HEADED STUD- CONFORM TO CSA W59 APPENDIX H, WITH TENSILE STRENGTH OF 450MPa AND YIELD STRENGTH OF 350MPa
 - ANCHOR RODS – CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W UNLESS NOTED OTHERWISE.
 - ALL OTHER - CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W
 - STEEL JOISTS - CONFORM TO CAN/CSA-S16-09
 - METAL DECK: - CONFORM TO THE REQUIREMENTS OF CAN/CSA-S136-07.
 - SHERWIN WILLIAMS B66W1 DTM ACRYLIC PRIMER/FINISH
 - PPG PITT-TECH 90-712 DTM PRIMER/FINISH
 - SHOP PRIMER: PHENOLIC ALKDYD PRIMER
 - DEVGUARD 4360 LOW VOC UNIVERSAL PRIMER
 - SHERWIN WILLIAMS B50 KEM BOND HS UNIVERSAL METAL PRIMER
 - PPG AMERCOAT 185H UNIVERSAL PHENOLIC PRIMER
 - REPAIR PRIMER FOR APPLICATION IN THE FIELD, WATER BASED ACRYLIC:
 - DEVFLEX 4020PF DIRECT TO METAL PRIMER
 - SHERWIN WILLIAMS PRO-CRYL B66-310 SERIES UNIVERSAL PRIMER
 - PPG PITT-TECH PLUS 90-912 SERIES DTM INDUSTRIAL PRIMER
 - PRIMER FOR STEEL TO RECEIVE INTUMESCENT FIREPROOFING, DETERMINED TO BE ACCEPTABLE BASED ON ADHESION AND COMPATIBILITY CHARACTERISTICS UNDER LABORATORY CONDITIONS IN ACCORDANCE WITH ASTM D3359-09a2, METHOD A AND / OR ASTM D4541-09a1, AND APPROVED BY MANUFACTURER OF CONVENTIONAL FIREPROOFING TO BE APPLIED.
 - PRIMER FOR STEEL TO BE GALVANIZED AND RECEIVE A PAINT FINISH:
 - SHERWIN WILLIAMS B71Y1 DTM WASH PRIMER
 - CARBOLINE SANITILE120 HEAVY DUTY BONDING PRIMER
 - PPG PITT-TECH 90-712 SERIES DTM PRIMER
 - COLD GALVANIZING COATING FOR REPAIR OF GALVANIZED SURFACES:
 - ZRC ZERO-VOC GALVANIZING COMPOUND AS MANUFACTURED BY ZRC WORLDWIDE, MARSHFIELD, MA
 - AERVOE INDUSTRIES, INC. 'LOW VOC COLD GALVANIZING COATING 93% ZINC
 - SHEET RUBBER FOR THERMAL SEPARATION 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 (MISSISSAUGA) 905-884-8555, GOODALL (OSHAWA) 905-728-1658, OR CHAMBERS AND COOKE (MARKHAM) 905-475-1331.
 - HEAVY DUTY BITUMINOUS COATING WHERE IN CONTACT WITH SOIL: WOHL COATINGS BB-110 OR APPROVED EQUAL.
- EXECUTION
 - 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.
 - CENTRE BEARING PLATES UNDER BEAMS, OR AS NOTED.
 - BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB.
 - NO STRUCTURAL STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE CONSULTANT.
 - WHERE COLUMNS ARE STABILIZED BY WALLS PROVIDE COLUMN ANCHORS AT BUTTING 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.
 - 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.
 - 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.

- 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.
- 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.
- DESIGNATE STEEL AS ARCHITECTURALLY EXPOSED IN ACCORDANCE WITH THE FOLLOWING TABLE. *REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL 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]

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

053100 STEEL DECKING

- MATERIALS
 - STEEL DECKING PER PLAN AND CONFORMING TO CAN/CSA-S136 AND THE FOLLOWING:
 - CSSBI 10M FOR ROOF DECKING.
 - CSSBI 12M FOR FLOOR DECKING.
 - MINIMUM ZINC COATING OF Z275 FOR EXTERIOR DECKING AND DECKING EXPOSED TO VIEW WITHOUT PAINTED FINISH.
 - MINIMUM ZINC COATING OF Z275 FOR INTERIOR DECKING NOT EXPOSED TO VIEW AND INTERIOR DECKING WITH FIELD APPLIED PAINT SYSTEM.
 - LACEMENT OF EXISTING DECK IS REQUIRED.
- EXECUTION
 - DESIGN DECK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
 - DESIGN AND CONNECT METAL EDGE AND CLOSURE STRIPS, METAL SCREEDS, FLASHINGS AND THE LIKE.
 - DESIGN FRAMING FOR 450mm OR SMALLER OPENINGS IN ROOF DECK, AND 300mm OR SMALLER OPENINGS IN FLOOR DECK. REINFORCE OPENINGS OVER 150mm, AS REQUIRED.
 - PLACE SHEETS IN MINIMUM 3 SPAN LENGTHS. BEAR ENDS MINIMUM 50mm.
 - LAP ENDS OF NON-COMPOSITE DECK UNITS A MINIMUM OF 50mm AND ONLY OVER SUPPORTING MEMBERS.
 - 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.
 - AS A MINIMUM, FASTEN SIDE JOINTS OF DECK UNITS BETWEEN SUPPORTS BY CLINCHING AT 600mm INTERVALS OR WITH 25mm LONG WELDS AT 1000mm INTERVALS.
 - PAINT WELDS AND REPAIR DAMAGED COATING WITH GALVA-COAT COATING.
 - DO THE FOLLOWING WHERE DECKING IS EXPOSED TO VIEW:
 - LAP ENDS OF DECK UNITS ONLY OVER SUPPORTING MEMBERS. NO SEAMS ARE PERMITTED WITHIN SPANS.
 - KEEP DECK FREE OF DIRT, SCALE, FOREIGN MATTER, DENTS OR DEFORMATIONS.
 - KEEP FUSION WELDS WELL WITHIN THE BEARING WIDTH OF SUPPORTING MEMBERS.
 - AVOID WELD DAMAGE TO THE DECK OR ITS SUPPORTS.
- FOUNDATIONS
 - 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 FAMILIARIZED WITH ITS FINDINGS.
 - 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.
 - 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.
 - 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.
 - PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SAFELY SUSTAINING 25kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.
 - REFER TO GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS DIRECTLY BELOW SLAB ON GRADE.
 - 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.
 - 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.
 - 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 discrepancies to the Architect before proceeding with the work.		
Do not scale this drawing.		
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10	2022/07/15	ISSUED FOR CONSTRUCTION
9	2022/05/30	ISSUED FOR STEEL RESTRUCTURING
8	2022/01/31	REVISED ISSUED FOR TENDER/ISSUED FOR BUILDING PERMIT
7	2021/09/28	ADDENDUM S2
6	2021/09/14	ADDENDUM S1
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3	2021/08/25	ISSUED FOR TENDER REVIEW
2	2021/08/11	ISSUED FOR COORDINATION
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TEL 416 487 8151

PROJECT NAME:
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PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN: DM	CHECKED: IFM
SCALE:	PROJECT NUMBER: 210112

SHEET TITLE:
GENERAL NOTES

S001

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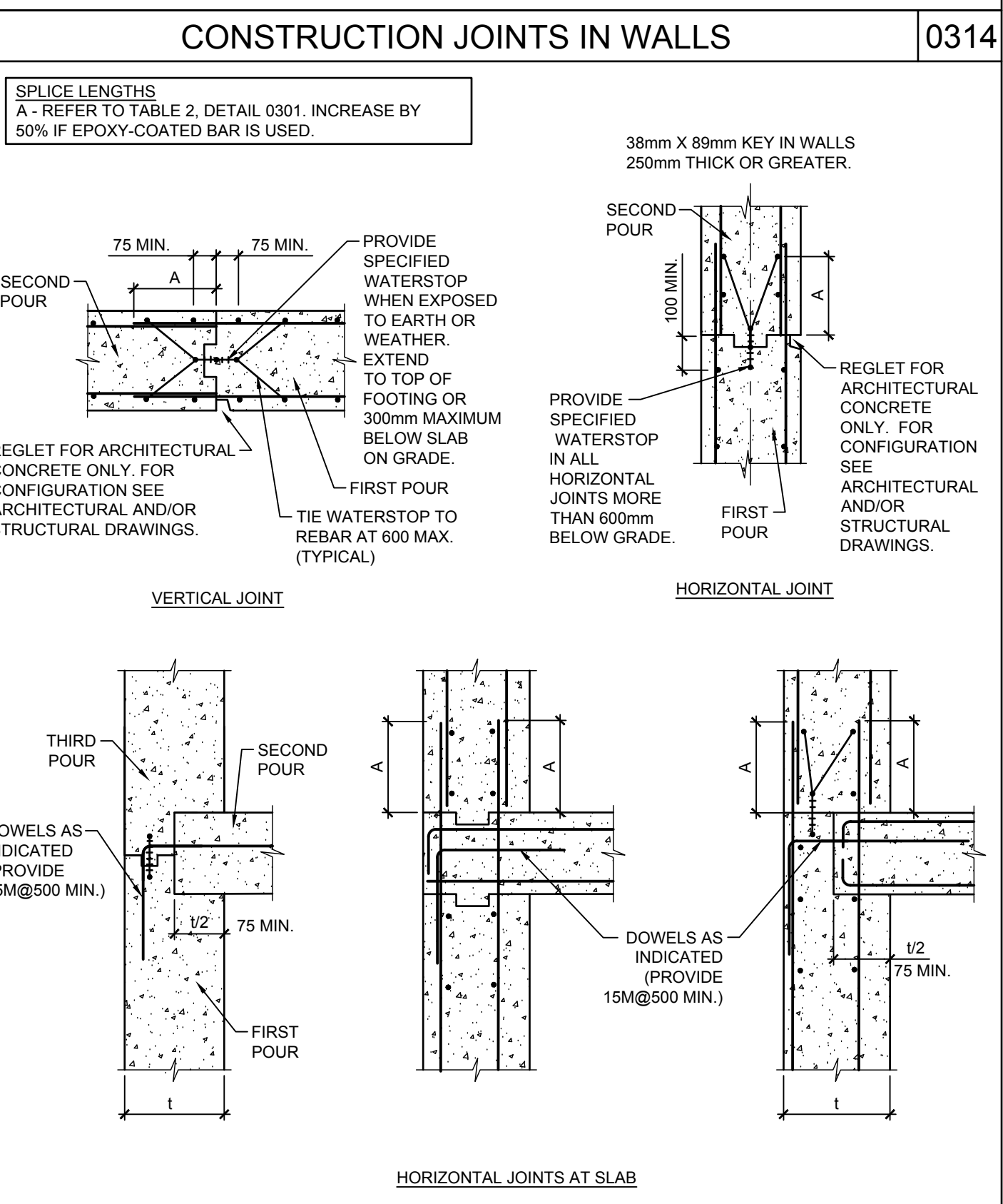
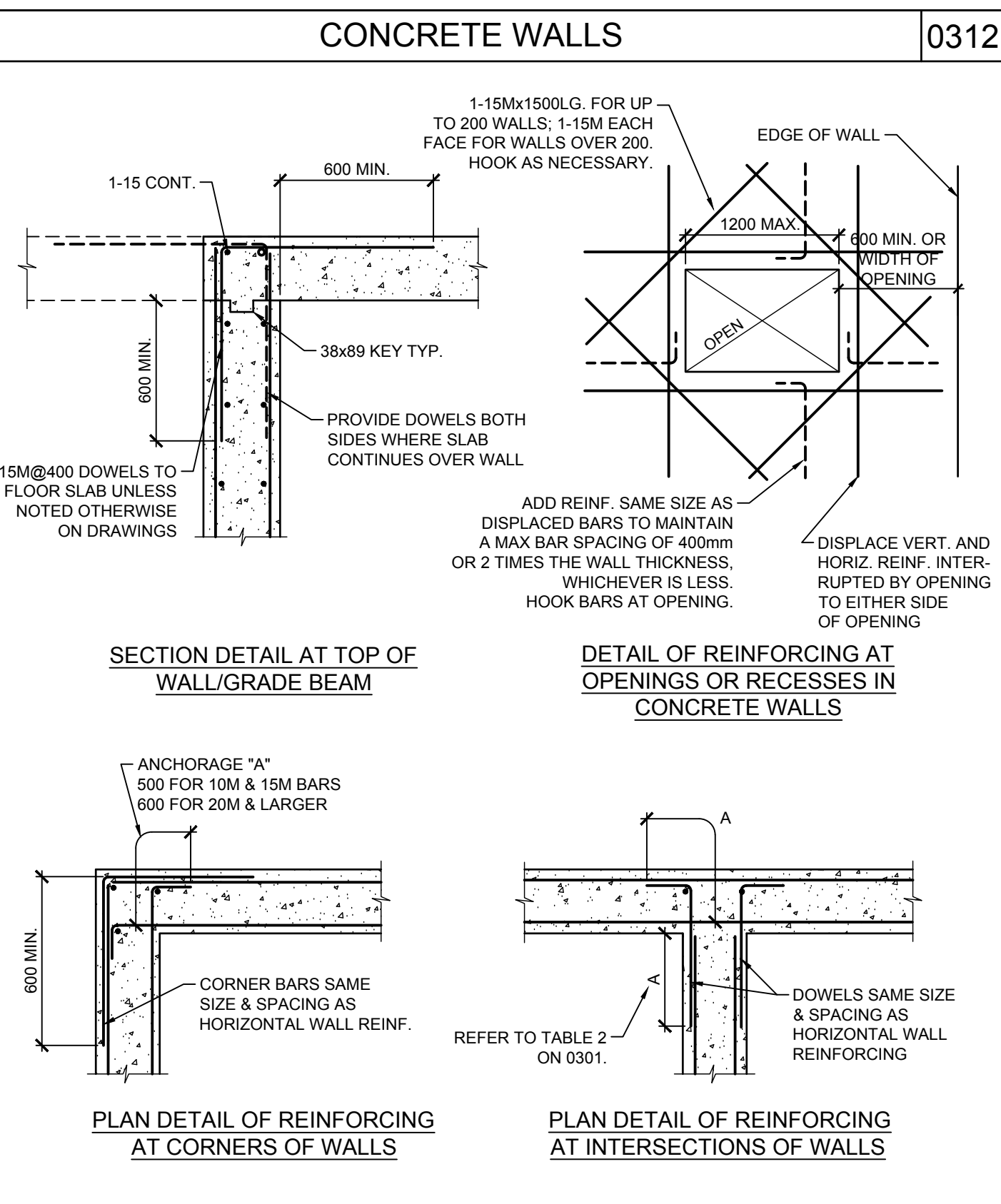
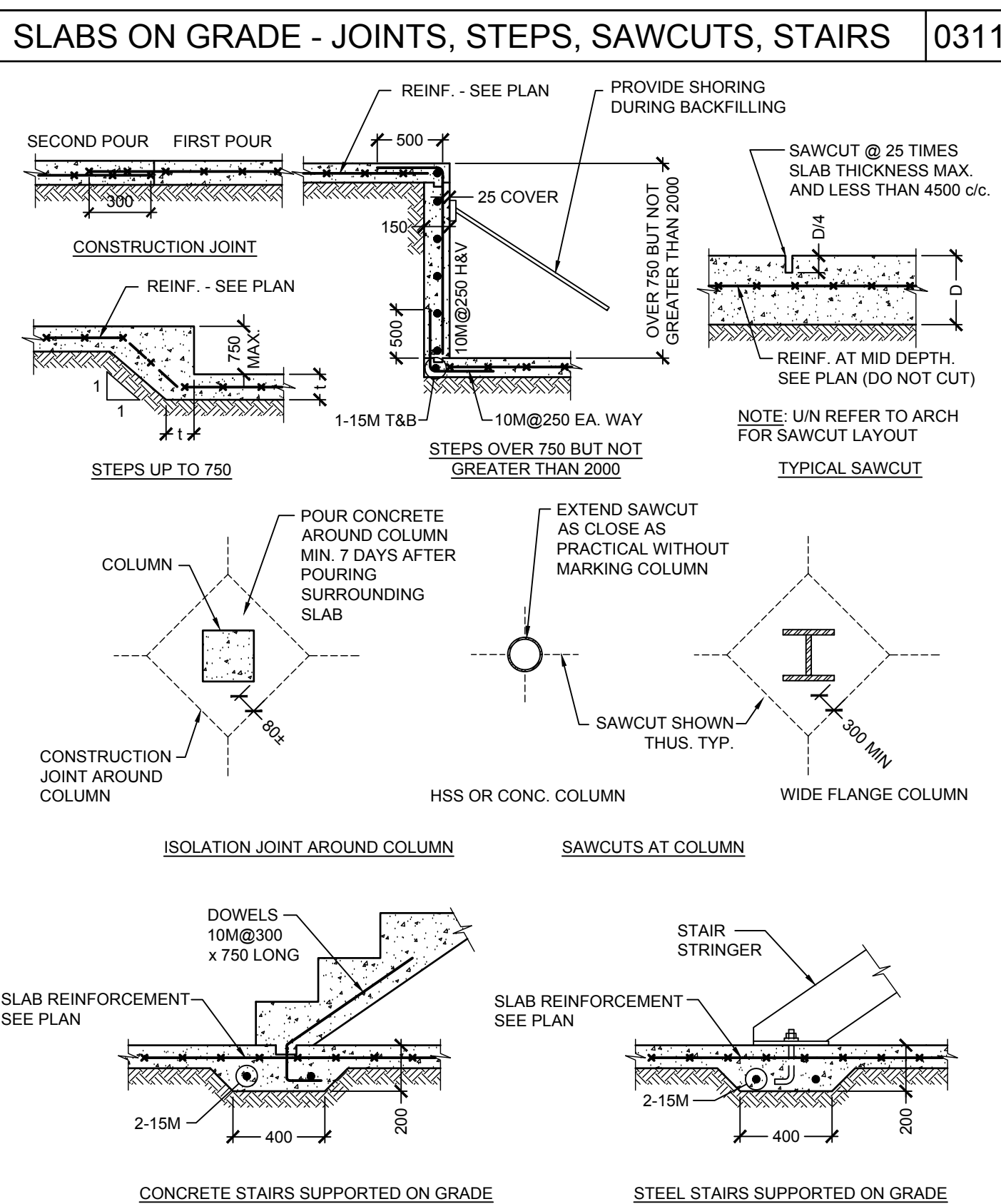
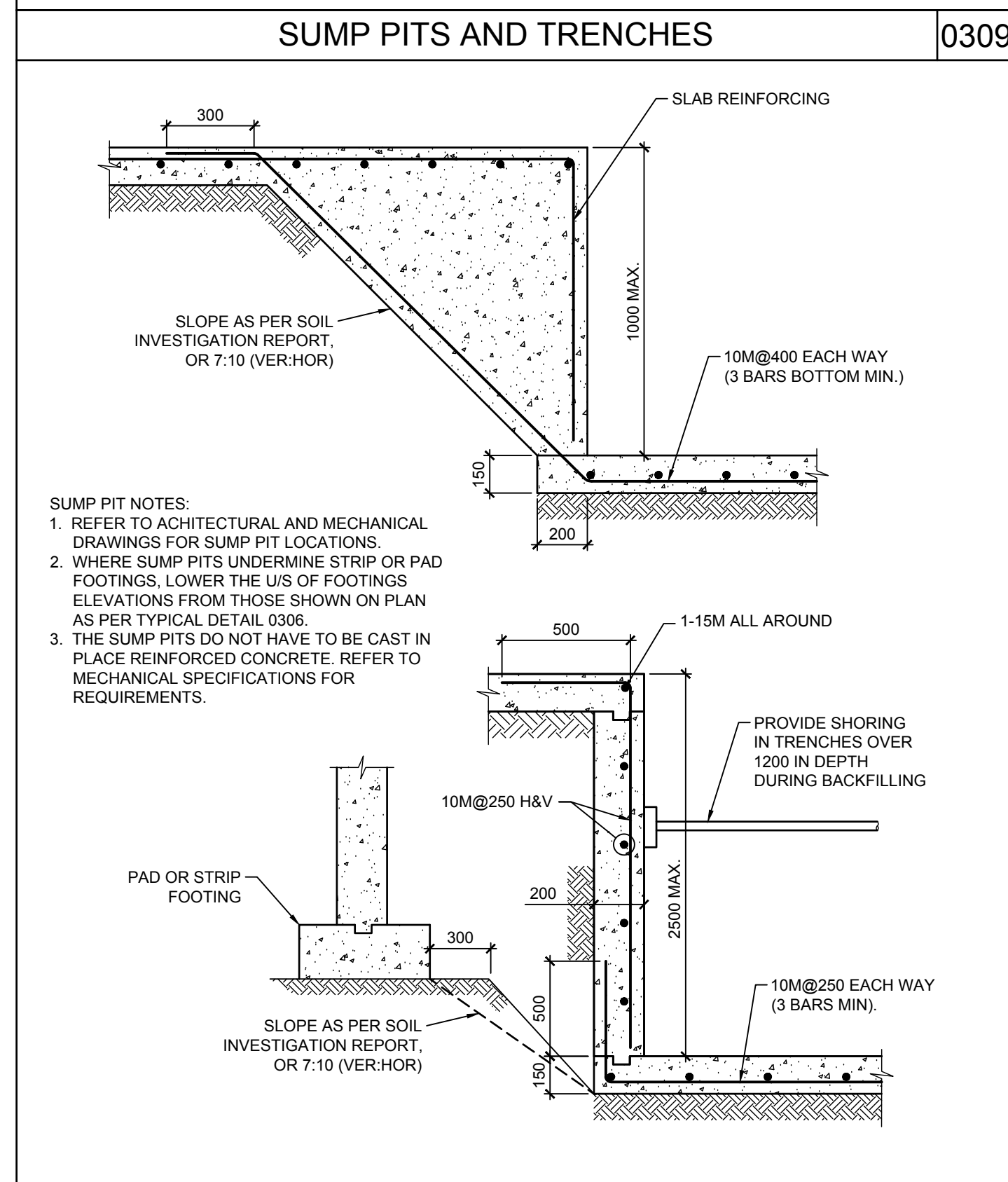
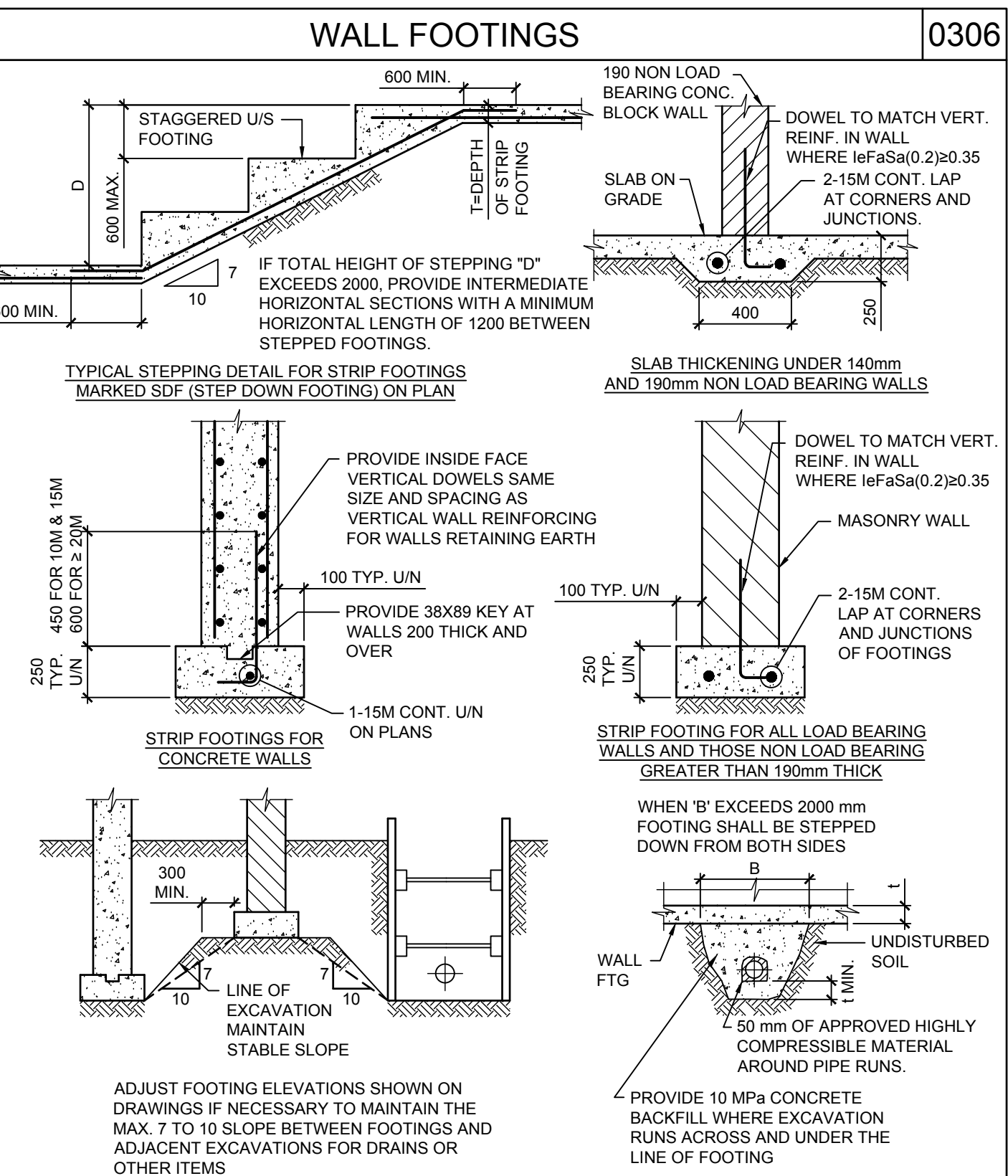
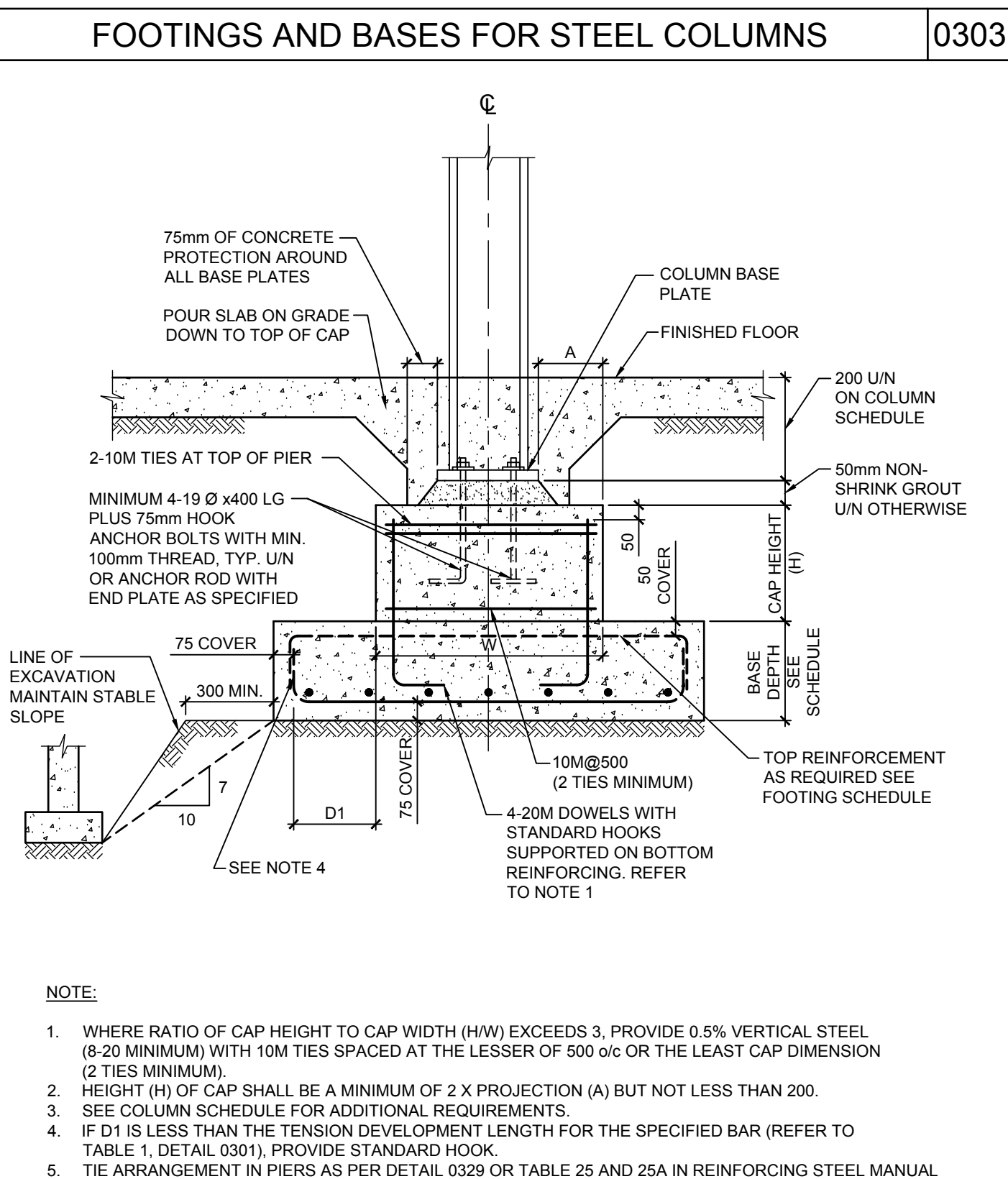
CHECKED:
IFM
PROJECT NUMBER:
210112

SHEET TITLE:
TYPICAL DETAILS

S002

ABBREVIATIONS		0001	
A BOLT = ANCHOR BOLT	GA = GAUGE	R = RADIUS, REACTION	
ADJ = ADJUSTABLE	GALV = GALVANIZED	RAD = RADIUS	
ALT = ALTERNATE	GEN = GENERAL	REF = REFERENCE	
ARCH = ARCHITECTURAL	H. HOR = HORIZONTAL	REIN = REINFORCE	
ASL = ADDITIONAL SNOW LOAD	HEF, H EF = HORIZONTAL EACH FACE	REINFORCEMENT	
@ = AT	HEE = HOOKED EACH END	REQ'D = REQUIRED	
B = BOTTOM	HF = FACTORED HORIZONTAL	REV = REVISION, REVISED	
BEW = BOTTOM EACH WAY	INT = INTERIOR	R/W, R/W = REINFORCED WITH	
BLL = BOTTOM LOWER LAYER	HSC = FORCE, KN	SECT = SECTION	
BUL = BOTTOM UPPER LAYER	CONNECTION	SDF = STEP DOWN FOOTING	
BLDG = BUILDING	IF = INSIDE FACE	SL = SLAB	
BM = BEAM	INT = INTERIOR	SOG = SLAB ON GRADE	
BPL = BASE OR BEARING PLATE	JT = JOINT	SPECS = SPECIFICATIONS	
BSMT = BASEMENT	KN = KILONEWTON	STD = STANDARD	
c/c, o/c = CENTRE TO CENTRE	KG = KILOGRAM	STRUC = STRUCTURAL	
C/W = COMPLETE WITH	KN.M = KILONEWTON METRES	T = TOP	
C = EPOXY COATED	KN/SQ.M = KILONEWTON PER SQUARE METRE	TEW = TOP EACH WAY	
CF = FACTORED COMPRESSIVE FORCE, KN	K/M = SQUARE METRE	TF = FACTORED TORSIONAL MOMENT, KN.M	
CANT = CANTILEVER	K/PA = KILOPASCAL	TI = FACTORED TENSION FORCE, KN	
CA = COLUMN ABOVE	LL = LIVE LOAD	TJ = TIE JOIST	
CB = COLUMN BELOW	LG = LONG	TLL = TOP LOWER LAYER	
COL = COLUMN	LLV = LONG LEG VERTICAL	TUL = TOP UPPER LAYER	
CONC = CONCRETE	LLH = LONG LEG HORIZONTAL	TEMP = TEMPERATURE	
CONSTR = CONSTRUCTION	MAX = MAXIMUM	TYP = TYPICAL	
CJ = CONSTRUCTION JOINT	MC, M = MOMENT CONNECTION	UL = UPPER LAYER	
CONT = CONTINUOUS	MECH = MECHANICAL	UN = UNLESS OTHERWISE NOTED	
DET = DETAIL	MEZZ = MEZZANINE	U/S = UNDERSIDE	
DIAG = DIAGONAL	MIN = MINIMUM	VI = FACTORED SHEAR FORCE, KN OR FACTORED VERTICAL BRACING FORCE, KN	
DIA, Ø = DIAMETER, BAR	MISC = MISCELLANEOUS	V. VERT = VERTICAL	
DIM = DIMENSION	MIDDLE LAYER	VEF, V EF = FACTORED EACH FACE	
DJ = DOUBLE JOIST	MM = MILLIMETRE	VBR = VERTICALLY BRACING	
DO = DITTO	MOM = MOMENT	VSC = VERTICALLY SLOTTED CONNECTION	
DL = DEAD LOAD	M = METRE, METRIC	WPL = WALL PLATE	
DWG(S) = DRAWING(S)	Mpa = MEGAPASCAL	WWF = WELDED WIRE FABRIC	
DWL(S) = DOWEL(S)	Mix = FACTORED BENDING MOMENT ABOUT X-AXIS, KN.M	WWM = WELDED WIRE MESH	
EA = EACH	Mfy = FACTORED BENDING MOMENT ABOUT Y-AXIS, KN.M	W/W, w = WITH	
EF = EACH FACE	N = NEWTONS	wd, wl = UNIFORMLY DISTRIBUTED LOADS	
EW = EACH WAY	NIC = NOT IN CONTRACT		
EL = ELEVATION	NF = NEAR FACE		
ELECT = ELECTRICAL	NTS = NORTH-SOUTH		
ELEV = ELEVATOR	NS = NOT TO SCALE		
E-W = EAST-WEST	OP = OUTSIDE FACE		
EQ = EQUAL	OWS = OPEN WEB STEEL JOISTS		
EXIST = EXISTING	OPEN = OPENING		
EXP JT = EXPANSION JOINT	PC = PLATE		
EXT = EXTERIOR	PL = PRECAST		
FF = FAR FACE	PROJ = PROJECTION		
FDN = FOUNDATION			
FL = FINISHED			
FLOOR = FLOOR			
FTG = FOOTING			

REINFORCEMENT DEVELOPMENT LENGTHS						0301	
TABLE 1 - TENSION DEVELOPMENT LENGTH (CLASS A)						TABLE 2 - TENSION LAP SPICE (CLASS B)	
BAR SIZE	20MPa	25MPa	30MPa	35MPa	40MPa	45MPa	fc
10	320	300	300	300	300	300	
15	480	430	390	370	340	320	
20	640	580	530	490	460	430	
25	1010	900	820	760	710	670	
30	1210	1080	990	910	850	800	
35	1410	1260	1150	1060	1000	940	
45	1820	1620	1480	1370	1290	1210	
55	2220	1980	1810	1680	1570	1480	
TOP BAR VALUES ARE 1.3x THE ABOVE LENGTH INDICATED FOR ALL SLABS GREATER THAN 325mm IN THICKNESS						TOP BAR VALUES ARE 1.3x THE ABOVE LENGTH INDICATED FOR ALL SLABS GREATER THAN 325mm IN THICKNESS	
TABLE 3 - COMPRESSION DEVELOPMENT LENGTH (mm)						TABLE 4 - COMPRESSION LAP SPICE LENGTH (mm)	
BAR SIZE	20MPa	25MPa	30MPa	35MPa	40MPa	45MPa	fc
10	210	200	200	200	200	200	
15	320	290	280	280	280	280	
20	430	380	350	350	350	350	
25	540	480	440	440	440	440	
30	640	580	530	530	530	530	
35	750	670	620	620	620	620	
45	970	860	790	790	790	790	
55	1180	1060	970	970	970	970	
FOR 35M OR SMALLER BARS WHERE THE SIDE COVER IS NOT LESS THAN 60mm AND FOR 30M BARS WHERE THE COVER ON THE BAR EXTENSION BEYOND THE HOOK IS NOT LESS THAN 50 mm. LENGTHS MAY BE REDUCED BY A FACTOR OF x0.7.						REFER TO REINFORCING STEEL MANUAL OF STANDARD PRACTICE FOR MORE INFORMATION.	
TABLE 5 - DEVELOPMENT LENGTH (mm) FOR STANDARD HOOKS						TABLE 6 - STANDARD HOOK DIMENSION FOR BLACK REINFORCING	
BAR SIZE	20MPa	25MPa	30MPa	35MPa	40MPa	45MPa	fc
10	220	200	180	170	160	150	
15	340	300	270	250	240	220	
20	450	400	370	340	320	300	
25	560	500	460	420	400	370	
30	670	600	550	510	470	450	
35	780	700	640	590	550	520	
45	1010	900	820	760	710	670	
55	1230	1100	1000	930	870	820	
REFER TO REINFORCING STEEL MANUAL OF STANDARD PRACTICE FOR MORE INFORMATION.						REFER TO REINFORCING STEEL MANUAL OF STANDARD PRACTICE FOR MORE INFORMATION.	



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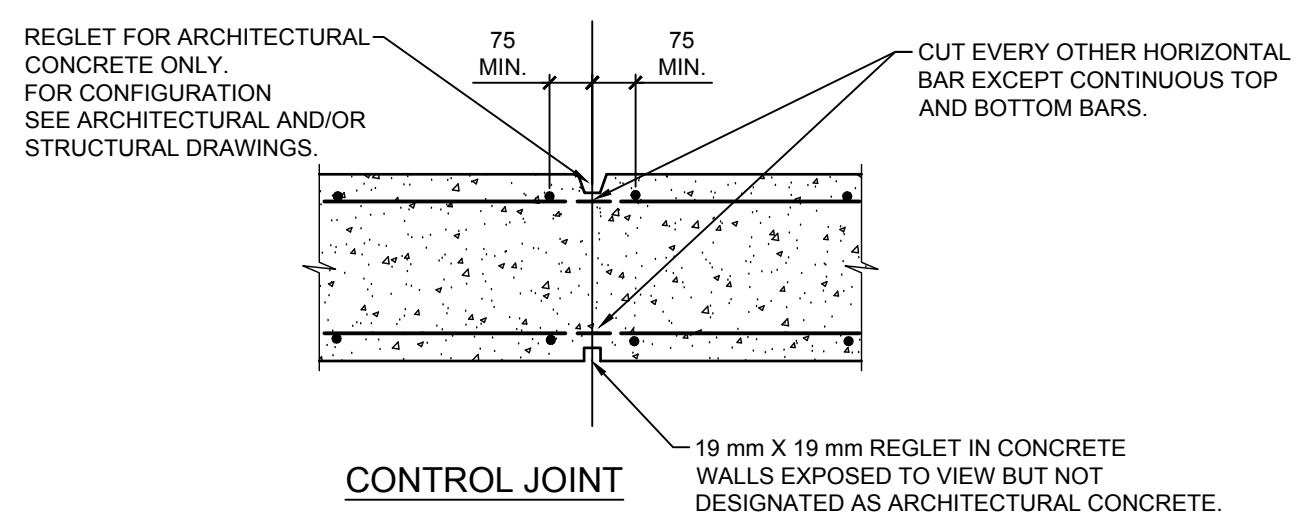
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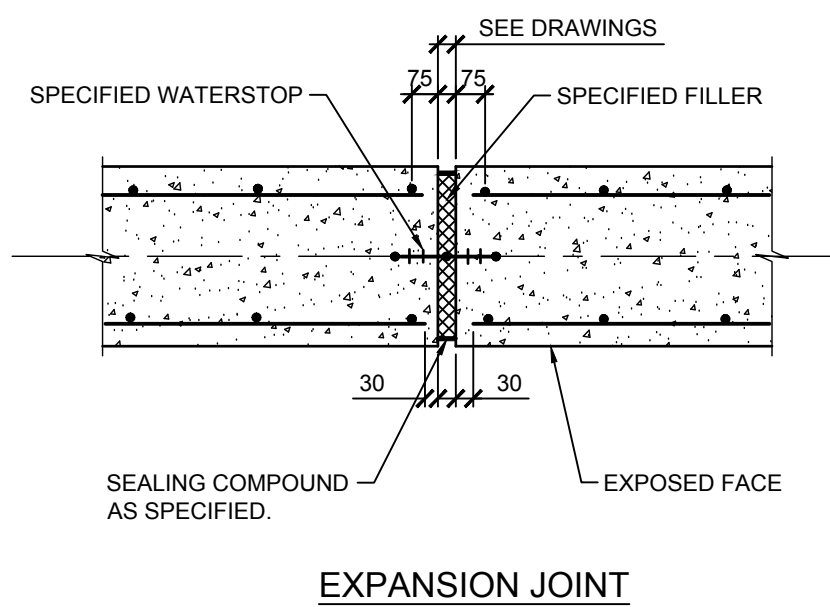
SHEET TITLE:
TYPICAL DETAILS

S003

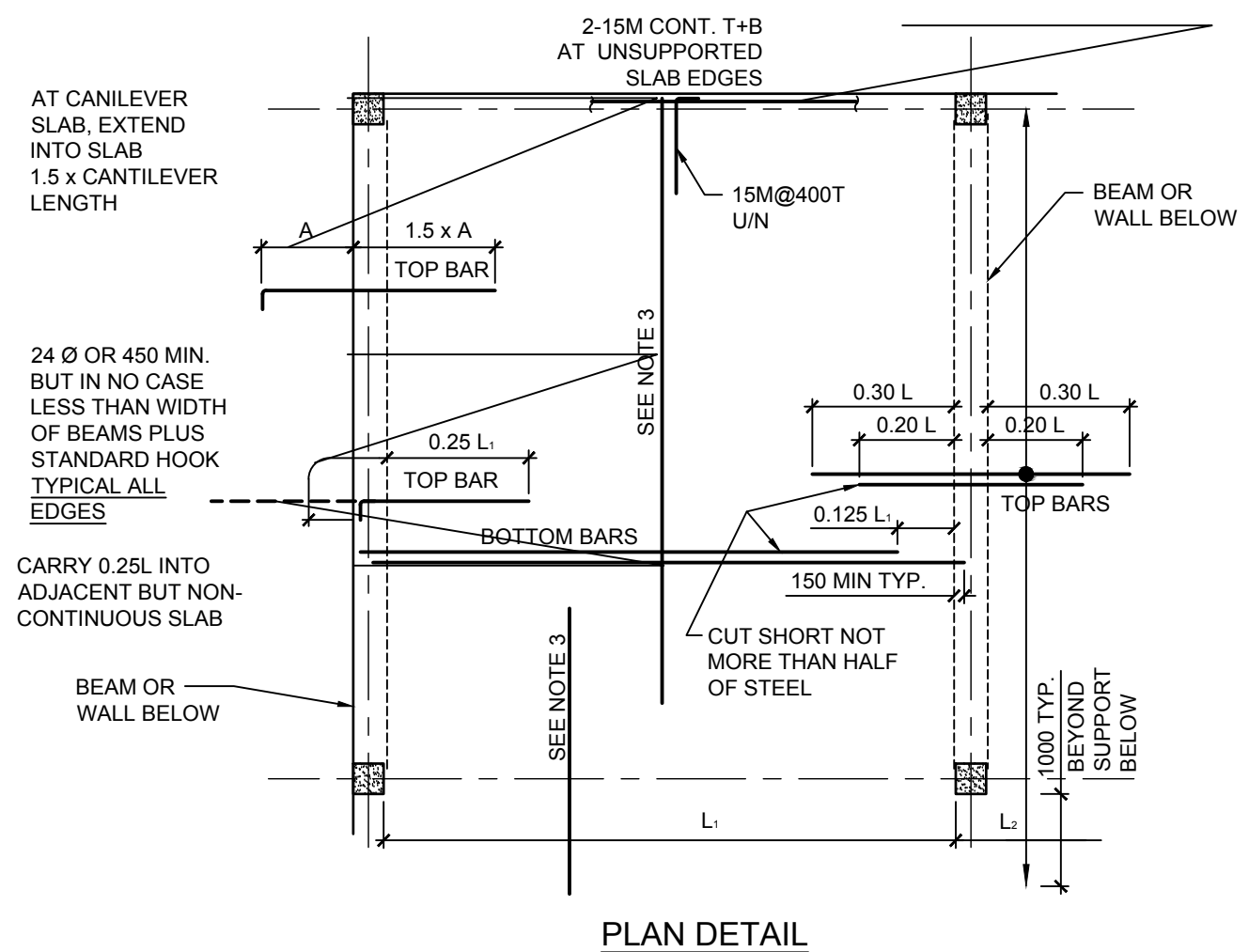
CONTROL AND EXPANSION JOINTS IN CONCRETE WALLS 0315



- NOTES:**
- AS A MINIMUM PROVIDE CONTROL JOINTS IN ALL FOUNDATION WALLS AT 6m MAX.
 - PROVIDE CONTROL JOINT AT ALL LOCATIONS MARKED THUS ▲ IN PLAN.
 - DO NOT PLACE CONTROL JOINTS IN SHAFT WALLS (WALLS THAT ARE NOT BRACED BY FLOOR SLABS).
 - DO NOT PLACE CONTROL JOINTS IN BEAMS AND COLUMNS.
 - CONFIRM WITH CONSULTANT LOCATIONS WHERE BARS TO BE CUT ARE LARGER THAN THE REST OF REINFORCING.



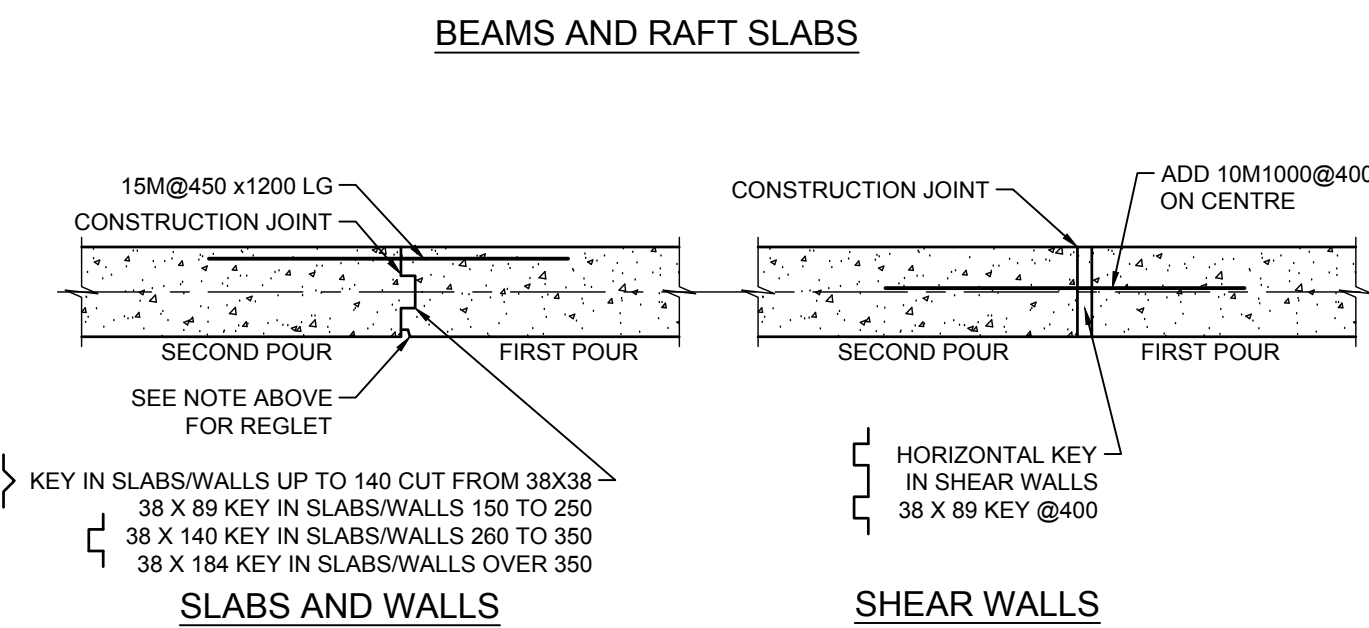
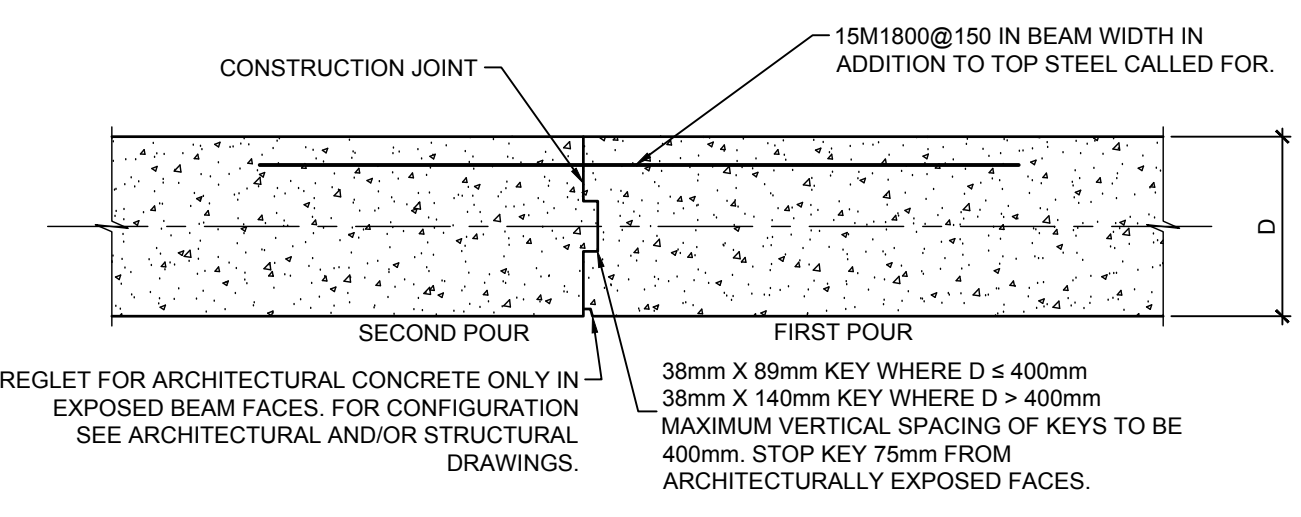
ONE-WAY SLABS 0317



SLAB THICKNESS	INTERIOR SLABS As = .002 Ag	SLABS EXPOSED TO WEATHER As = .0025 Ag
75	10 @ 500	10 @ 500
100	10 @ 500	10 @ 400
125	10 @ 400	10 @ 300
150	10 @ 325	15 @ 500
175	15 @ 500	15 @ 450
200	15 @ 500	15 @ 400
225	15 @ 500	15 @ 350
250	15 @ 400	20 @ 500
275	15 @ 350	20 @ 400
300	20 @ 500	20 @ 400

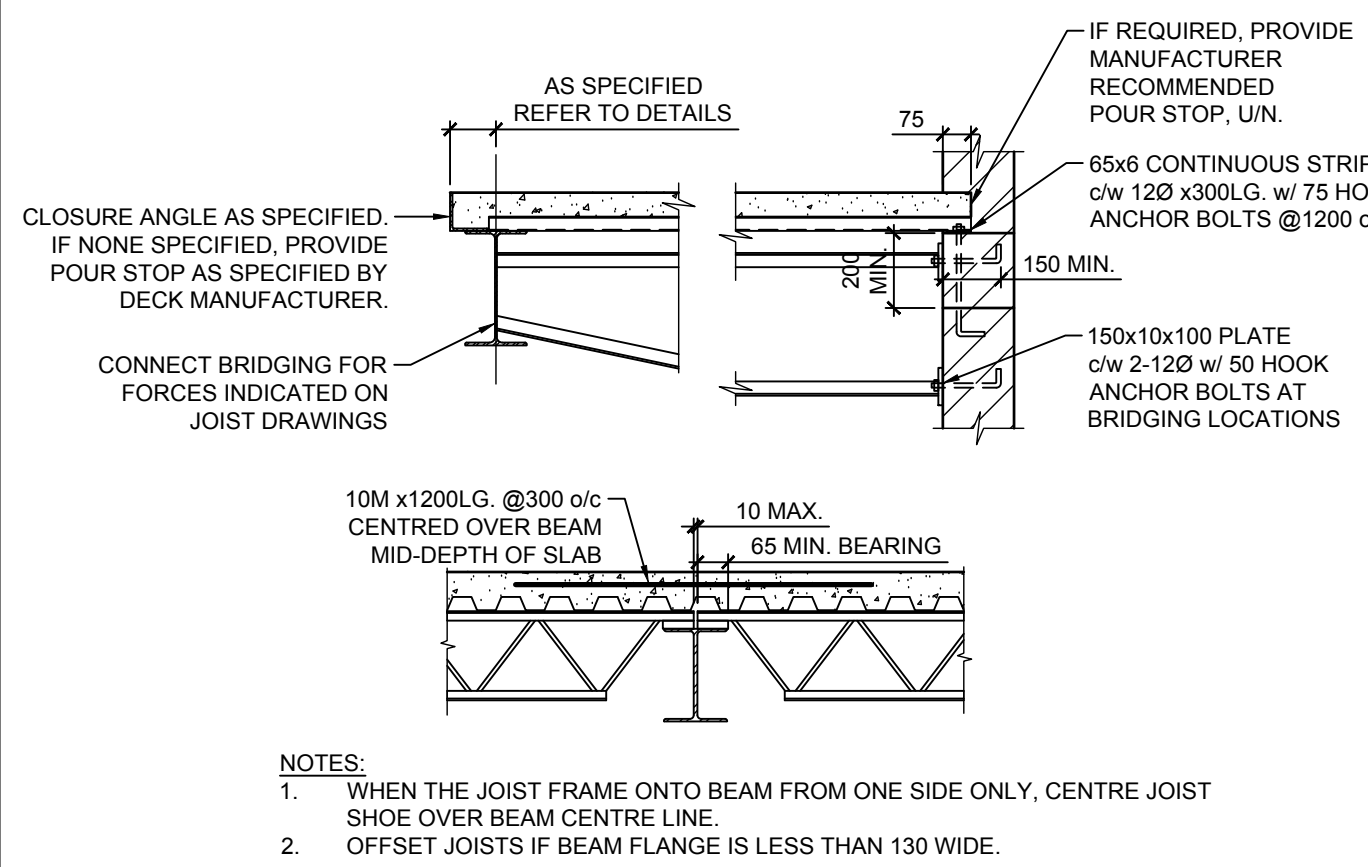
- NOTES:**
- TOP BARS SHALL BE CARRIED 24 Ø INTO THE SUPPORT OR HOOKED AS SHOWN DOTTED.
 - SUPPORT ALL BARS IN ACCORDANCE WITH THE RSIC MANUAL OF STANDARD PRACTICE USING REBAR OR PLASTIC CHAIRS AND BOLSTERS ONLY.
 - L IS GREATER OF L AND L.
 - IN ALL ONE WAY SLABS PROVIDE TEMPERATURE REINFORCEMENT PERPENDICULAR TO THE SPAN AS PER THE TABLE BELOW, UNLESS OTHERWISE NOTED ON PLAN. LAP TEMPERATURE REINFORCEMENT 24 Ø, BUT NOT LESS THAN 300 mm.

CONCRETE CONSTRUCTION JOINTS 0325



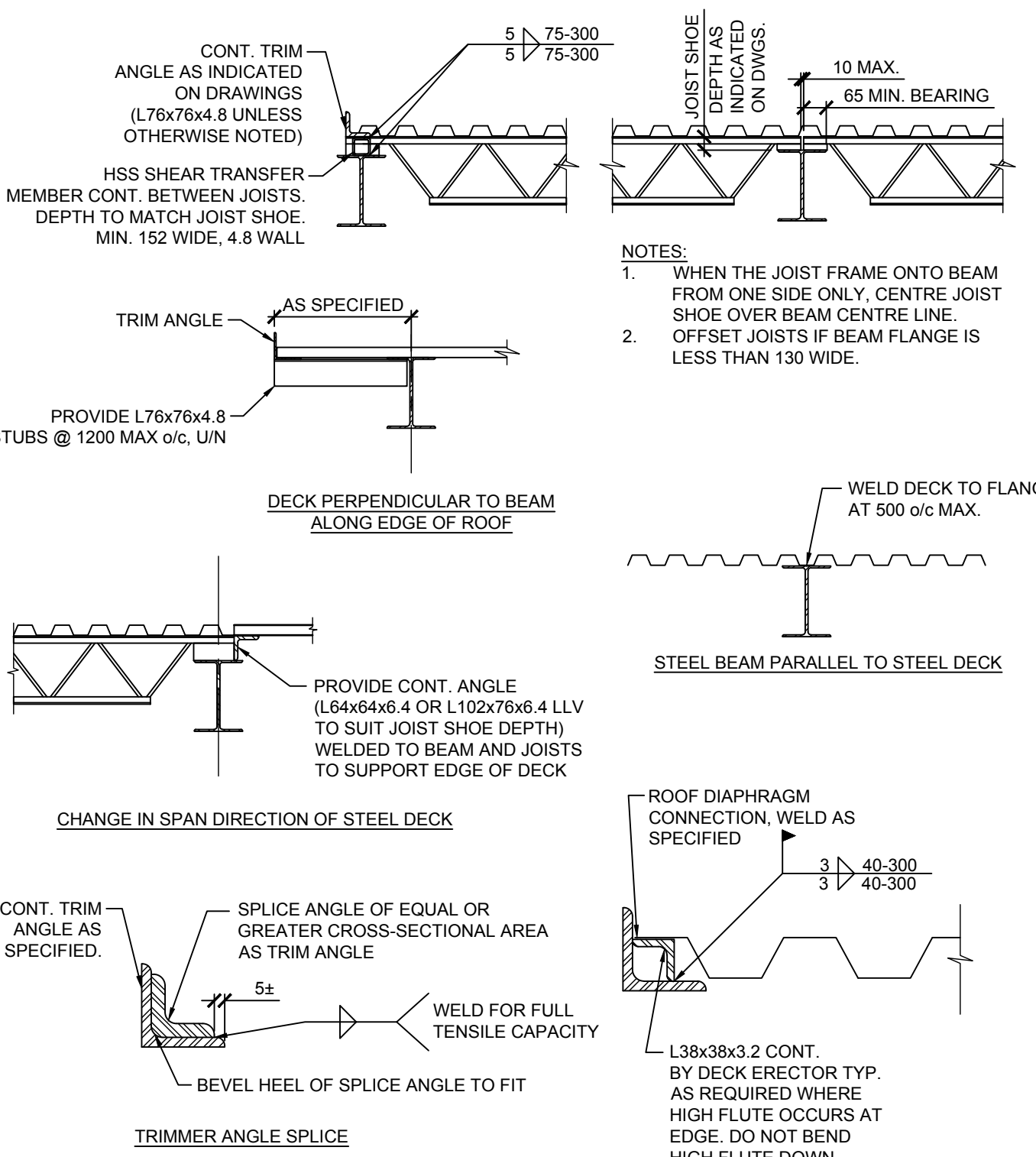
- NOTES:**
- SUBMIT CONSTRUCTION JOINT SHOP DRAWINGS FOR REVIEW BY CONSULTANT.
 - EXTEND NORMAL TOP AND BOTTOM REINFORCEMENT THROUGH JOINT FOR FULL LENGTH AS SHOWN ON DRAWINGS, SCHEDULES AND TYPICAL DETAILS.
 - CONSTRUCTION JOINTS TO BE LOCATED AT MIDDLE THIRD OF SPAN.
 - CONSTRUCTION JOINTS IN PAD FOOTINGS, IN SLABS UNDER AND PARALLEL TO WALLS, IN BEAMS AT SUPPORTS OR AT COLUMNS ABOVE ARE NOT PERMITTED, UNLESS APPROVED BY CONSULTANT.

CONCRETE SLAB ON STEEL DECK FRAMING DETAILS 0501

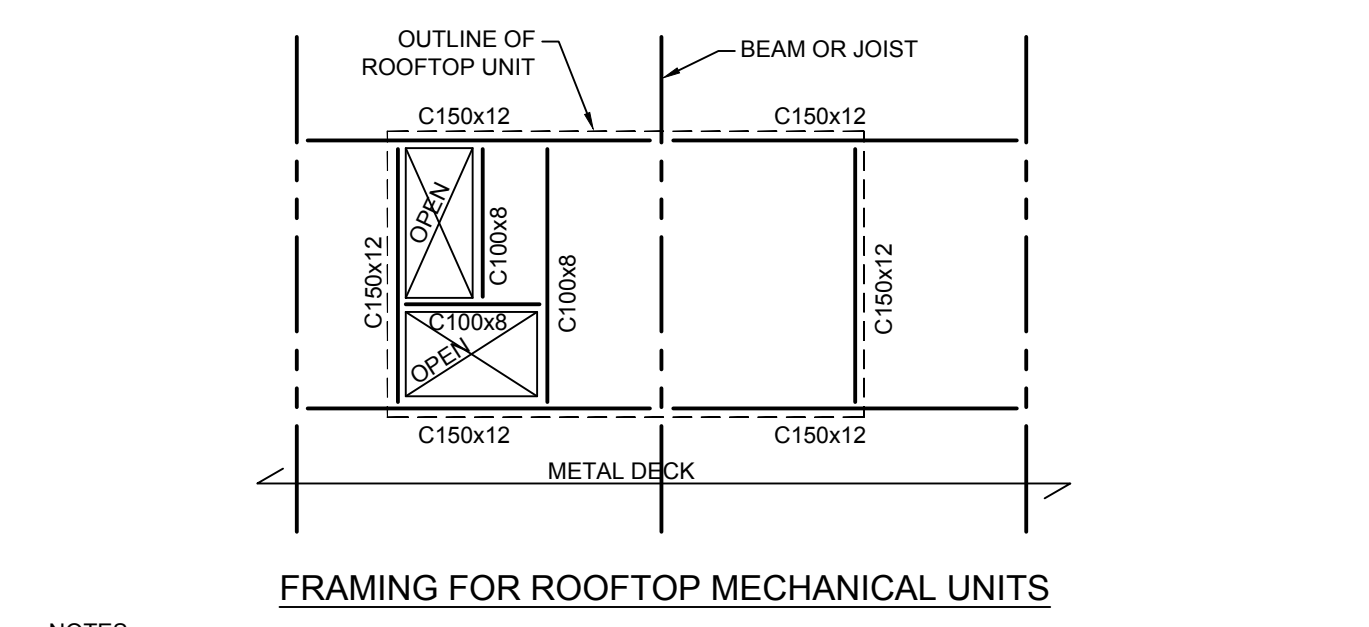
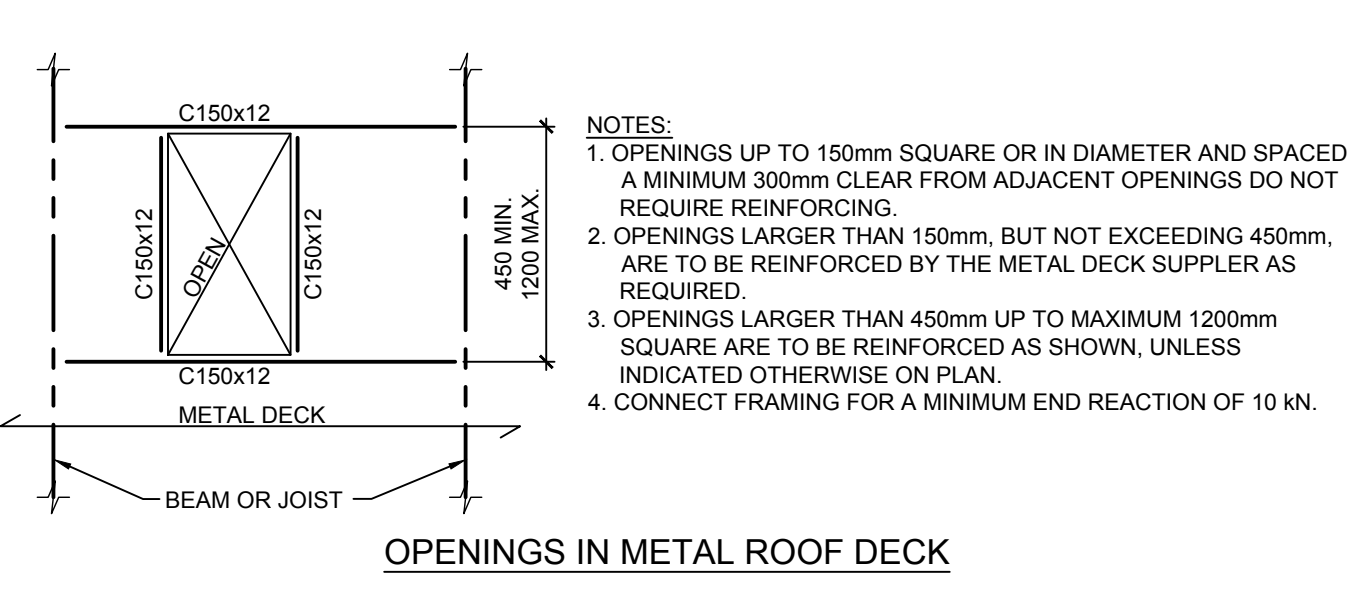


- NOTES:**
- WHEN THE JOIST FRAME ONTO BEAM FROM ONE SIDE ONLY, CENTRE JOIST SHOE OVER BEAM CENTRE LINE.
 - OFFSET JOISTS IF BEAM FLANGE IS LESS THAN 130 WIDE.

STEEL DECK FRAMING DETAILS 0503

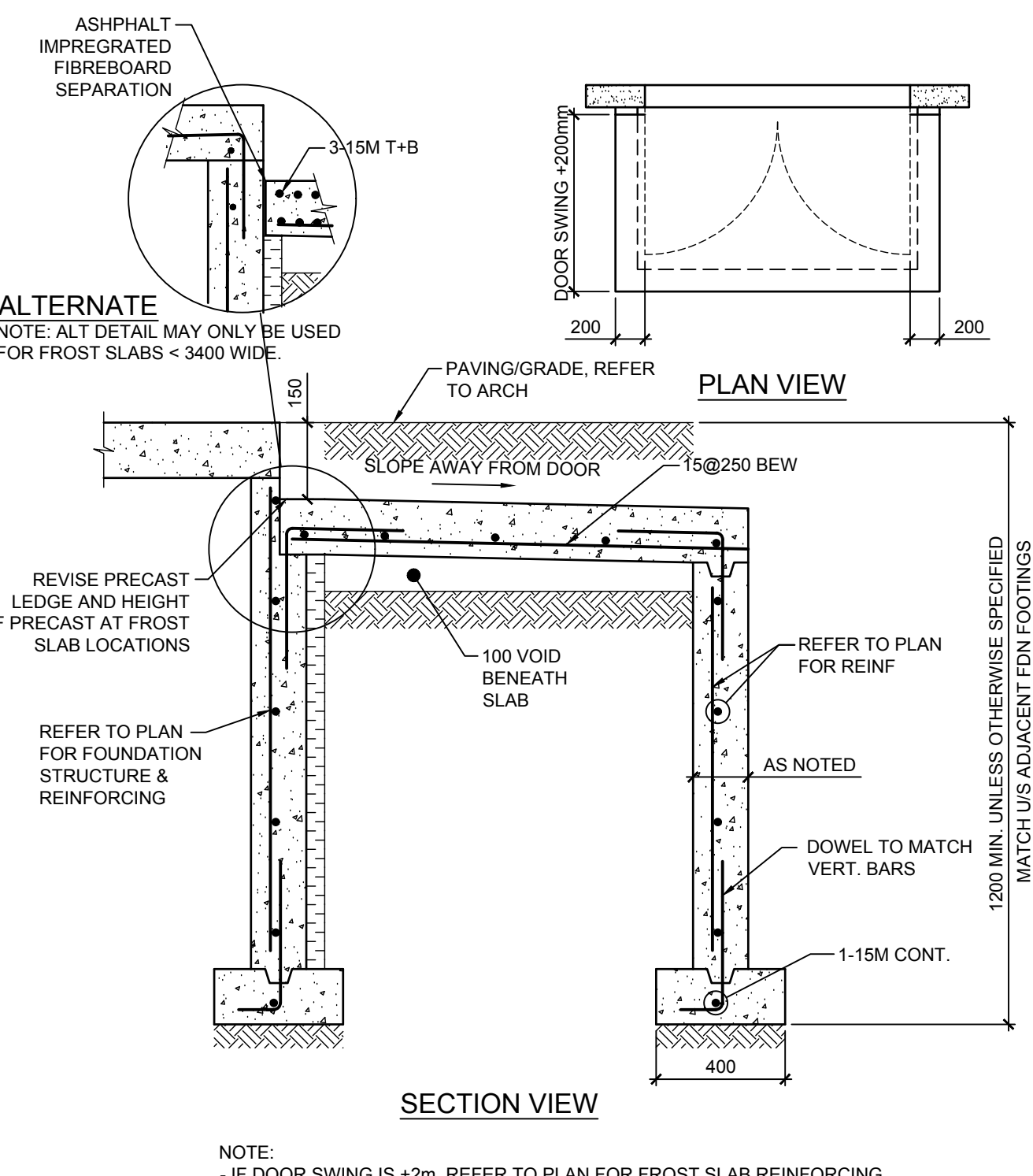


FRAMING FOR ROOFTOP UNITS AND OPENINGS IN DECK 0504

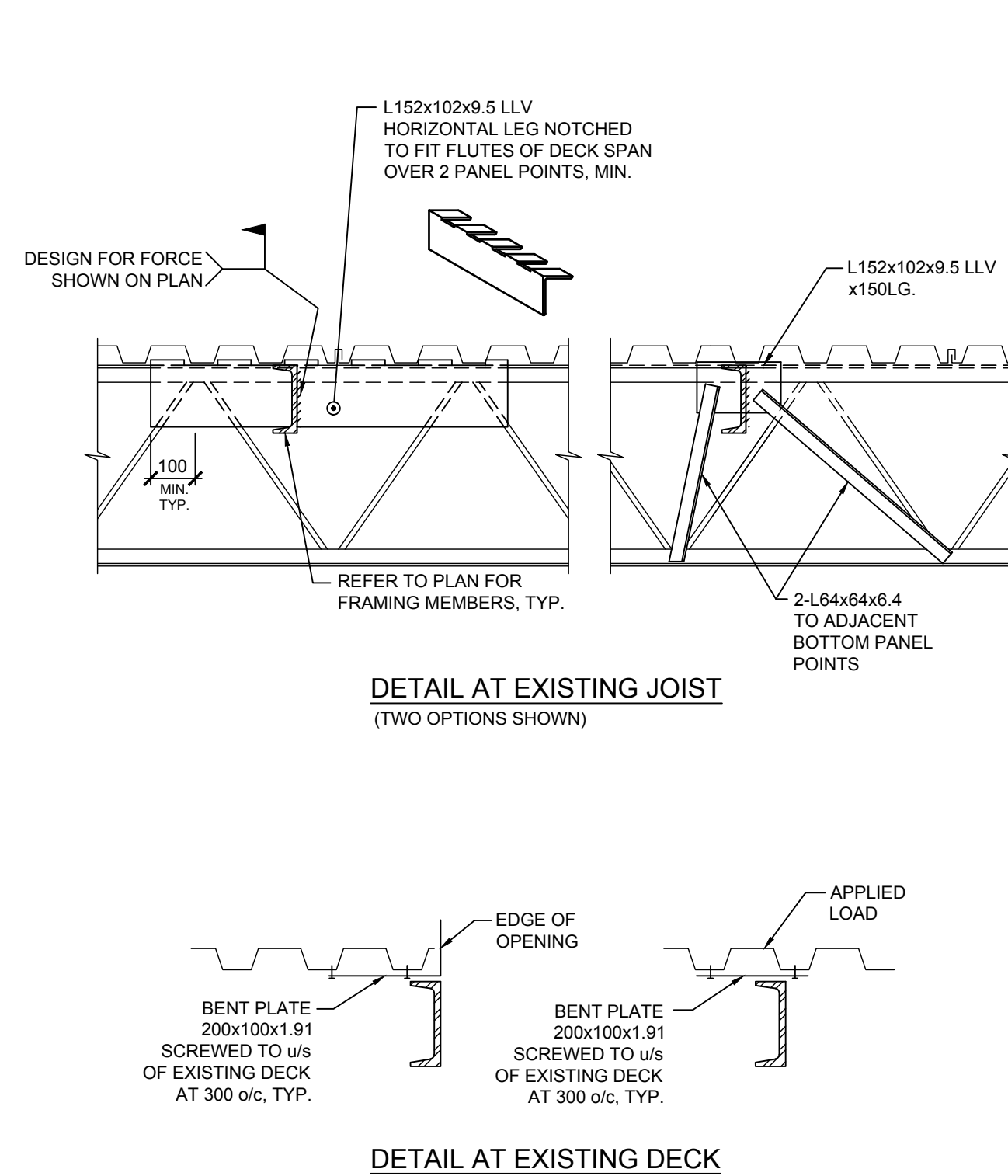


- NOTES:**
- UNLESS SHOWN OTHERWISE ON PLAN, PROVIDE C150x12 SPANNING BETWEEN BEAMS OR JOISTS EACH SIDE OF ROOFTOP UNIT, AS WELL AS AT EACH END, IN THE MANNER INDICATED ABOVE. CHANNELS TO BE LOCATED DIRECTLY UNDER CURBS SUPPORTING UNIT. OMIT CHANNEL IF CURB IS DIRECTLY OVER A BEAM OR JOIST.
 - PROVIDE C100x8 TO SUPPORT EDGES OF DECK AT OPENINGS IN THE MANNER INDICATED ABOVE. IF THE DECK UNDER THE ENTIRE UNIT IS TO BE OMITTED, THE C100x8 FRAMING CAN BE DELETED.
 - CONNECT C150x12 TO SUPPORTING BEAMS OR JOISTS FOR A MINIMUM WORKING LOAD OF 9kN OR 1/2 OF THE WEIGHT OF THE UNIT PLUS 5kN, WHICHEVER IS MORE. CONNECT WITHOUT DAMAGING THE SUPPORTING STEEL.
 - CONNECT C100x8 TO SUPPORTS FOR A MINIMUM WORKING LOAD OF 5 kN.
 - COORDINATE LOCATION AND SIZE OF UNIT AND OPENINGS, AND LOCATION OF STEEL FRAMING WITH THE MECHANICAL CONSULTANT AND/OR MECHANICAL CONTRACTOR AND THE STRUCTURAL CONSULTANT.
 - THIS DETAIL APPLIES TO NEW CONSTRUCTION ONLY.

FROST SLABS 0355A



FRAMING ONTO EXISTING STEEL JOISTS AND DECK 0505



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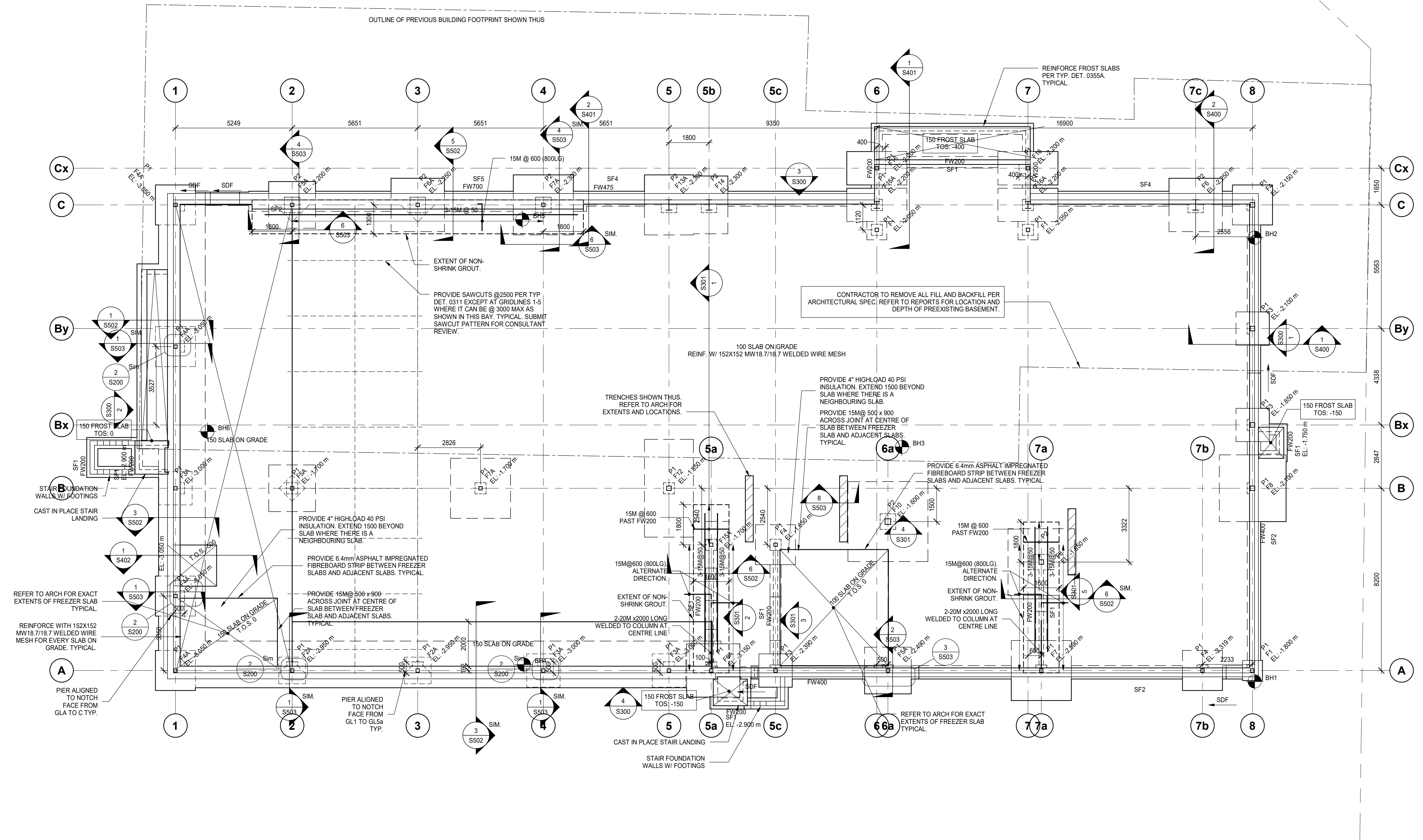
DRAWN: DM	CHECKED: IFM
SCALE:	PROJECT NUMBER: 210112

SHEET TITLE:
TYPICAL DETAILS

S004

<h3>CANTILEVERED BEAM CONNECTION</h3>	<h3>ANCHOR ROD WITH END PLATE</h3> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th rowspan="2">ROD \varnothing</th> <th colspan="3">PLATE DIMENSIONS</th> <th rowspan="2">WELD</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>19 (3/4")</td> <td>60</td> <td>13</td> <td>10</td> <td></td> </tr> <tr> <td>25 (1")</td> <td>75</td> <td>16</td> <td>13</td> <td></td> </tr> <tr> <td>32 (1 1/4")</td> <td>95</td> <td>19</td> <td>17</td> <td></td> </tr> <tr> <td>38 (1 1/2")</td> <td>115</td> <td>22</td> <td>21</td> <td></td> </tr> <tr> <td>45 (1 3/4")</td> <td>135</td> <td>25</td> <td>24</td> <td></td> </tr> <tr> <td>51 (2")</td> <td>150</td> <td>29</td> <td>27</td> <td></td> </tr> </tbody> </table> <p>OPTIONAL END PLATE DETAIL FOR 38mm \varnothing ROD AND SMALLER</p>	ROD \varnothing	PLATE DIMENSIONS			WELD	A	B	C	19 (3/4")	60	13	10		25 (1")	75	16	13		32 (1 1/4")	95	19	17		38 (1 1/2")	115	22	21		45 (1 3/4")	135	25	24		51 (2")	150	29	27	
ROD \varnothing	PLATE DIMENSIONS			WELD																																			
	A	B	C																																				
19 (3/4")	60	13	10																																				
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45 (1 3/4")	135	25	24																																				
51 (2")	150	29	27																																				

NOTES:
1. WELDING SHALL BE DONE IN ACCORDANCE WITH CSA W59 WITH WELD STRENGTH $X_u=480$ MPa.
2. STEEL ROD AND PLATE SHALL CONFORM TO REQUIREMENTS OF CSA G40.21 GRADE 300W.
3. MINIMUM CONCRETE STRENGTH $f_c=25$ MPa.



1 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.
- FOUND FOOTINGS AT A MINIMUM OF 1500mm 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.
- 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 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 ARCHITECTURAL.

FOUNDATION SCHEDULE					
MARK	DIMENSIONS (mm)			REINFORCEMENT	REMARKS
	LENGTH	WIDTH	DEPTH		
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	

CONCRETE PIER SCHEDULE					
MARK	DIMENSION		REINFORCEMENT	REINFORCEMENT	REMARKS
	DEPTH	WIDTH	- VERTICAL	- TIE	
P1	500	500	8-20M	15M@300	
P2	700	700	8-25M	15M@300	

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

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MJMA
maclennan jaunkins miller architects

425 adelaide street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmachitects.com

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ORANGEVILLE, ONTARIO
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MECHANICAL AND ELECTRICAL ENGINEERS
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TORONTO, ONTARIO, M2N 6N5
TEL 416-467-8151

PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN: DM
SCALE: As indicated
CHECKED: IFM
PROJECT NUMBER: 210112

SHEET TITLE:
FOUNDATION PLAN

S100

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

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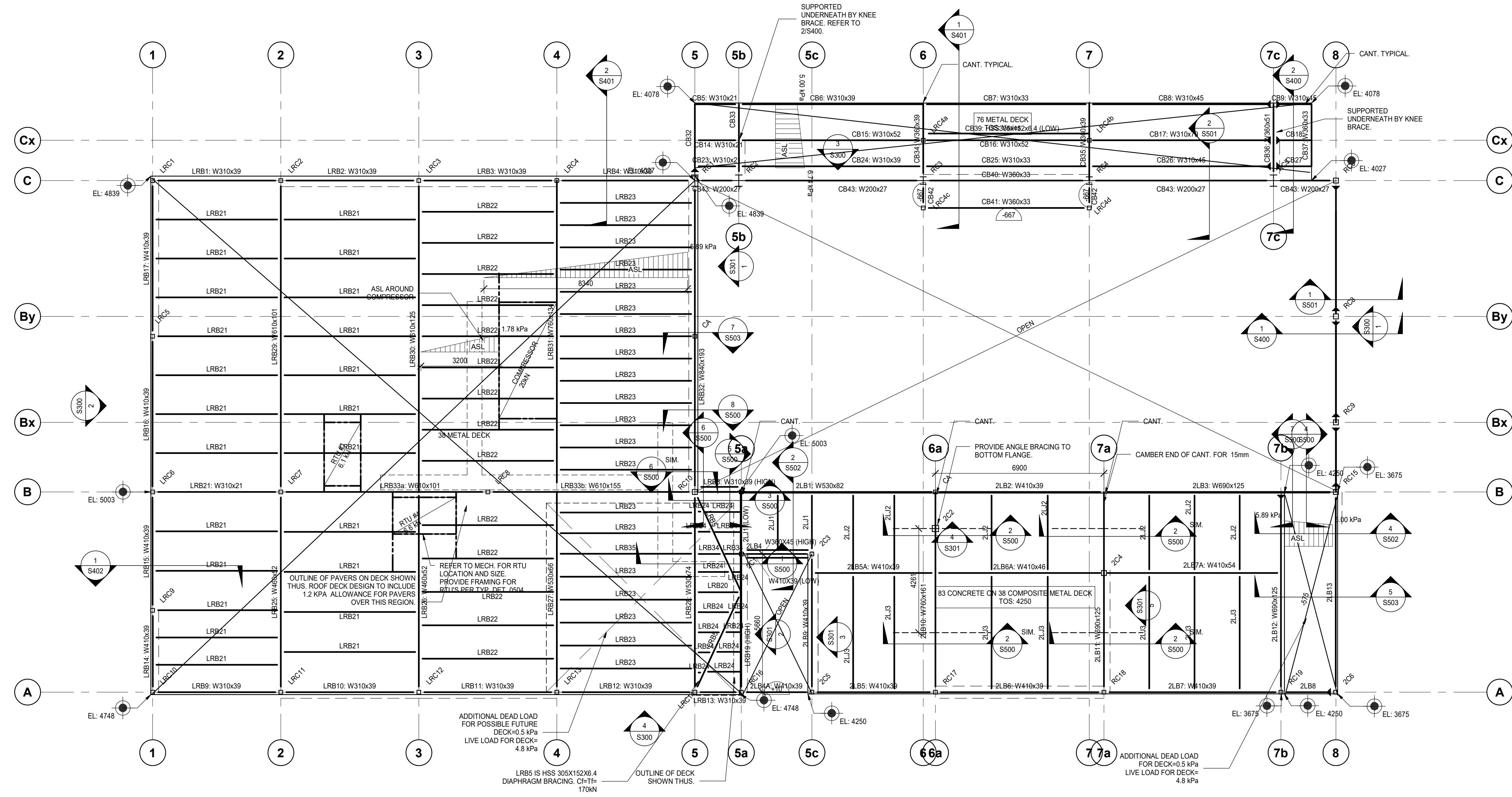
CHECKED:
IFM

SCALE:
As indicated

PROJECT NUMBER:
210112

SHEET TITLE:
SECOND & LOW ROOF FRAMING PLAN

S101



1 02 - SECOND AND LOW ROOF FRAMING PLAN
S101 1:100

NOTES:

- SECOND FLOOR DATUM IS AT GEODETIC ELEVATION 310.07m EXCEPT AS CROSSED AND NOTED.
- WHERE CROSSED AND NOTED THE LOCAL DATUM FOR RAISED OR LOWERED AREAS ARE GIVEN RELATIVE TO THE GROUND FLOOR DATUM.
- EXCEPT AS CROSSED AND NOTED TOP OF FINISHED FLOOR IS 0 mm BELOW THE FLOOR DATUM.
- 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.
- TOP OF STEEL JOISTS AND STEEL BEAMS SUPPORTING THE SLAB ON METAL DECK AT LEVEL 2 ARE 121 mm BELOW THE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- TOP OF STEEL BEAMS SUPPORTING JOISTS ARE 102 mm BELOW THE UNDERSIDE OF ROOF METAL DECK.
- WHERE NOTED, TOP OF BEAM IS GIVEN RELATIVE TO THE FINISHED FLOOR.
- SUPERIMPOSED LOADS USED IN THE DESIGN:
LIVE LOAD ON 2ND FLR: 2.4 kPa
DEAD LOADS ON 2ND FLR:
PARTITIONS 1.0 kPa
FLOOR FINISH 0.2 kPa
SUSPENDED 0.25 kPa
TOTAL 1.45 kPa
SNOW + RAIN LOAD 2.88 kPa (PLUS SNOW ACCUMULATION SHOWN ON PLAN)
DEAD LOADS ON ROOF AREAS:
ROOFING & INSULATION 0.60 kPa
SUSPENDED 0.25 kPa
TOTAL 0.85 kPa
- ASSUMED SELF WEIGHT OF STRUCTURE USED IN THE DESIGN:
76 METAL DECK 0.25 kPa
38 METAL DECK 0.15 kPa
83 CONC ON 38 DECK 2.45 kPa
STEEL FRAMING 0.35 kPa

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 (C), AXIAL TENSION (T), STRONG-AXIS MOMENT (M), TORSIONAL MOMENT (Tm) OR OUT OF PLANE HORIZONTAL FORCE (H) SHOWN IN THE REMARKS COLUMN. IN ADDITION TO 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.

STEEL BEAM SCHEDULE - LOW ROOF BEAM				
MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
LRB1	W310x39	35 kN	35 kN	Cf=30 kN Tf=30 kN
LRB2	W310x39	35 kN	35 kN	Cf=60 kN Tf=60 kN
LRB3	W310x39	35 kN	35 kN	Cf=180 kN Tf=180 kN
LRB4	W310x39	35 kN	35 kN	Cf=180 kN Tf=180 kN
LRB5	HSS305x152x6.4	20 kN	20 kN	Cf=170 kN Tf=170 kN
LRB8	W310x39	30 kN	30 kN	Tm(L)=10 kN-m Tm(R)=10 kN-m Cf=100 kN Tf=100 kN
LRB9	W310x39	35 kN	35 kN	Cf=30 kN Tf=30 kN
LRB10	W310x39	35 kN	35 kN	Cf=55 kN Tf=55 kN
LRB11	W310x39	35 kN	35 kN	Cf=150 kN Tf=150 kN
LRB12	W310x39	35 kN	35 kN	Cf=120 kN Tf=120 kN
LRB13	W310x39	35 kN	35 kN	Cf=85 kN Tf=85 kN
LRB14	W410x39	55 kN	55 kN	Cf=45 kN Tf=45 kN
LRB15	W410x39	55 kN	55 kN	Cf=30 kN Tf=30 kN
LRB16	W410x39	55 kN	55 kN	Cf=30 kN Tf=30 kN
LRB17	W410x39	55 kN	55 kN	Cf=55 kN Tf=55 kN
LRB19	W610x125	55 kN (55 kN)	260 kN	Cf=285 kN Tf=285 kN
LRB20	W310x21	20 kN	20 kN	Cf=10 kN Tf=10 kN
LRB21	W310x21	30 kN	30 kN	
LRB22	W310x21	40 kN	50 kN	
LRB23	W310x21	40 kN	45 kN	
LRB24	W310x21	20 kN	20 kN	
LRB25	W460x52	140 kN	145 kN	
LRB26	W460x52	145 kN	155 kN	
LRB27	W530x66	235 kN	235 kN	
LRB28	W530x74	255 kN	260 kN	Cf=165 kN Tf=165 kN
LRB29	W610x101	225 kN	220 kN	
LRB30	W610x125	295 kN	280 kN	
LRB31	W760x134	460 kN	445 kN	
LRB32	W840x193	315 kN	315 kN	Cf=165 kN Tf=165 kN
LRB33a	W610x101	160 kN	310 kN	Cf=85 kN Tf=85 kN
LRB33b	W610x155	475 kN	245 kN	Cf=95 kN Tf=95 kN
LRB34	W310x21	20 kN	20 kN	Cf=25 kN Tf=25 kN
LRB35	W310x21	40 kN	45 kN	Cf=25 kN Tf=25 kN

STEEL BEAM SCHEDULE - CANOPY BEAM				
MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
CB5	W310x21	20 kN	20 kN	
CB6	W310x39	55 kN	55 kN	
CB7	W310x39	50 kN	50 kN	
CB8	W310x45	60 kN	60 kN	M(R)=30 kN-m
CB9	W310x45	30 kN	30 kN	M(L)=30 kN-m
CB14	W310x21	35 kN	35 kN	
CB15	W310x52	100 kN	100 kN	
CB16	W310x52	100 kN	100 kN	
CB17	W310x79	100 kN	100 kN	M(R)=40 kN-m
CB18	W310x79	40 kN	40 kN	M(L)=40 kN-m
CB23	W310x21	20 kN	20 kN	
CB24	W310x39	55 kN	55 kN	
CB25	W310x45	60 kN	60 kN	
CB26	W310x45	60 kN	60 kN	M(R)=30 kN-m
CB27	W310x45	30 kN	30 kN	M(L)=30 kN-m
CB32	W360x79	230 kN	230 kN	H(L)=10 kN H(R)=10 kN M(L)=390 kN-m
CB33	W360x51	(45 kN)	285 kN	H(L)=10 kN H(R)=10 kN Tf=375 kN
CB34	W360x39	(75 kN)	430 kN	H(L)=10 kN H(R)=10 kN
CB35	W360x39	(75 kN)	430 kN	H(L)=10 kN H(R)=10 kN
CB36	W360x51	(-55 kN)	380 kN	H(L)=10 kN H(R)=10 kN Tf=545 kN
CB37	W360x39	15 kN	15 kN	
CB39	HSS305x152x6.4	25 kN	25 kN	H(L)=10 kN H(R)=10 kN
CB40	W360x33	40 kN	40 kN	
CB41	W360x33	20 kN	20 kN	
CB42	W200x15	15 kN	15 kN	Tf=10 kN
CB43	W200x27	15 kN	15 kN	

STEEL BEAM SCHEDULE - SECOND FLOOR BEAM				
MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
ZLB1	W530x82	100 kN	110 kN	Cf=95 kN Tf=95 kN
ZLB2	W410x39	75 kN	75 kN	Cf=95 kN Tf=95 kN
ZLB3	W690x125	135 kN	205 kN	H(R)=10 kN Tm(L)=10 kN-m Cf=95 kN Tf=95 kN
ZLB4	W410x39	70 kN	70 kN	
ZLB4A	W410x39	55 kN	55 kN	Cf=85 kN Tf=85 kN
ZLB5	W410x39	60 kN	60 kN	Cf=115 kN Tf=115 kN
ZLB5A	W410x39	95 kN	95 kN	
ZLB6	W410x39	80 kN	80 kN	Cf=155 kN Tf=155 kN
ZLB6A	W410x46	130 kN	130 kN	
ZLB7	W410x39	85 kN	85 kN	Cf=85 kN Tf=85 kN
ZLB7A	W410x54	140 kN	140 kN	
ZLB8	HSS305x152x6.4	85 kN	85 kN	H(L)=15 kN H(R)=15 kN M(R)=25 kN-m Tm(L)=15 kN-m Tm(R)=15 kN-m Cf=115 kN Tf=115 kN
ZLB9	W410x39	40 kN	110 kN	Cf=40 kN Tf=40 kN
ZLB10	W760x161	(-165 kN)	1490 kN	
ZLB11	W690x125	(-125 kN)	400 kN	Cf=180 kN Tf=180 kN
ZLB12	W690x125	145 kN	170 kN	M(R)=10 kN-m Cf=75 kN Tf=75 kN
ZLB13	HSS305x203x13	90 kN	90 kN	H(L)=25 kN H(R)=25 kN Tm(L)=25 kN-m Tm(R)=25 kN-m Cf=40 kN Tf=40 kN
ZLJ1	W310x21	20 kN	20 kN	
ZLJ2	W310x21	35 kN	35 kN	
ZLJ3	W310x21	55 kN	55 kN	

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SEAL:

DRAWN:
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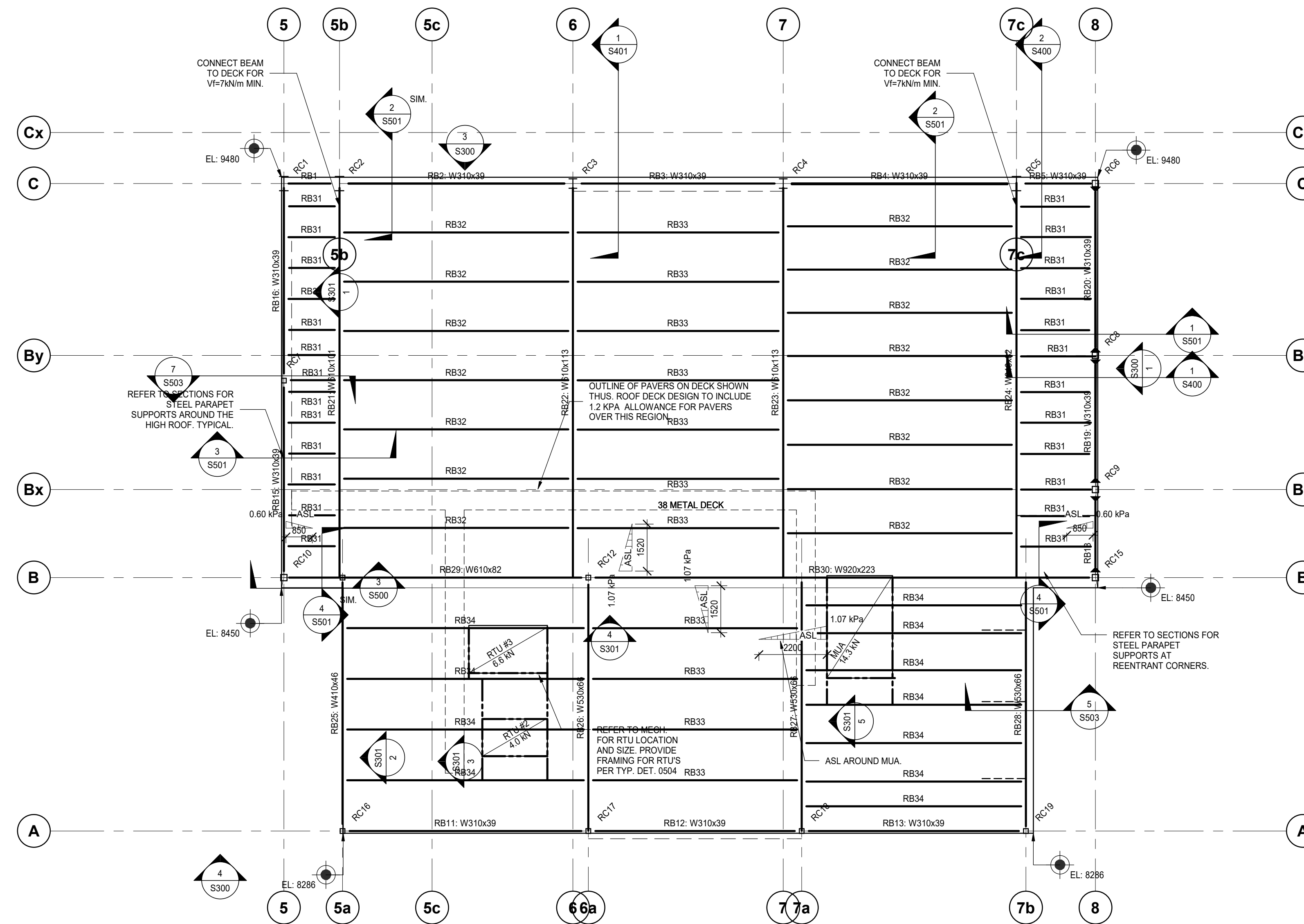
CHECKED:
IFM

SCALE:
As indicated

PROJECT NUMBER:
210112

SHEET TITLE:
HIGH ROOF FRAMING PLAN

S102



1 03 - HIGH ROOF FRAMING PLAN

S102
1:100

NOTES:

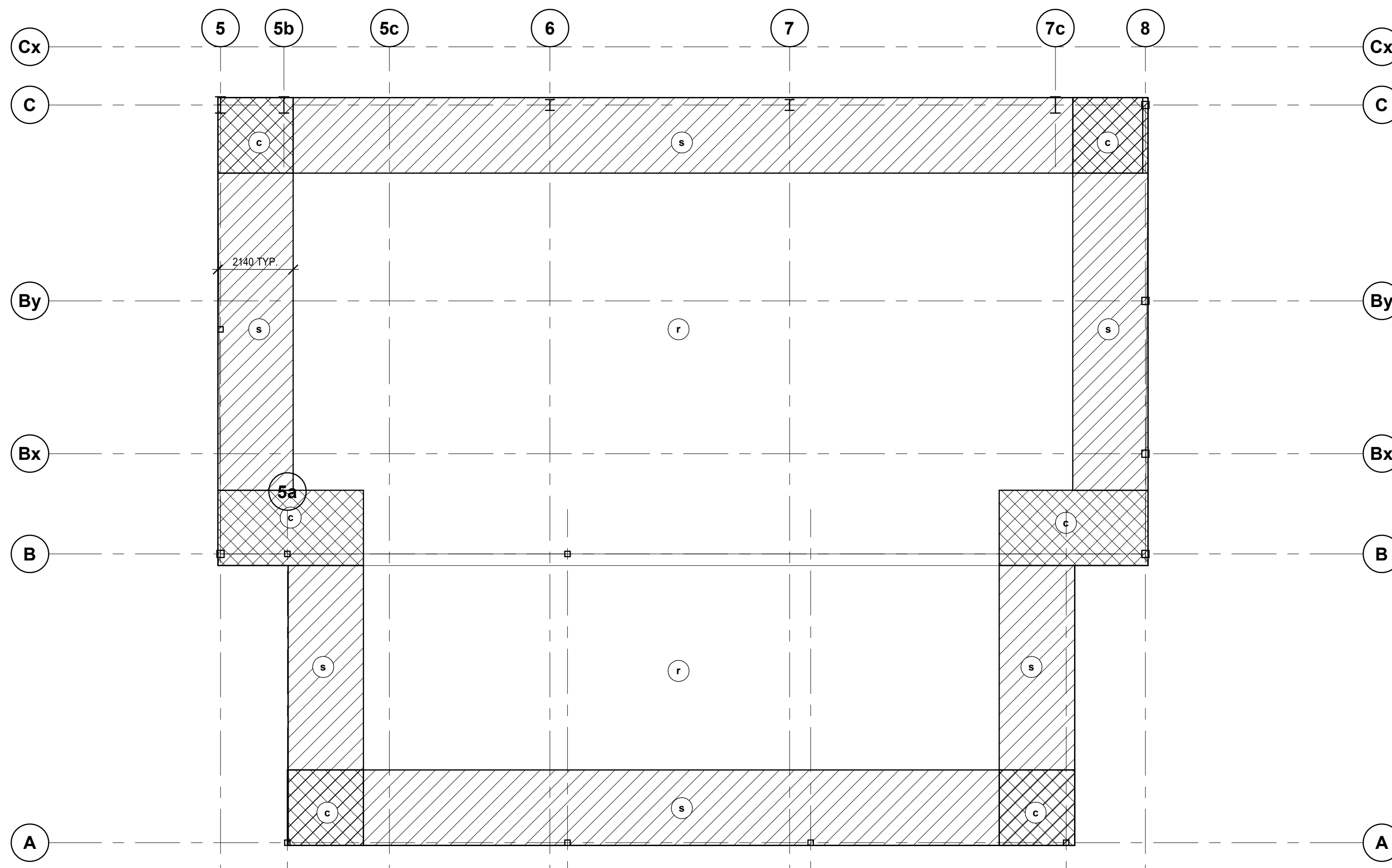
- ROOF DATUM IS FROM THE GROUND FLOOR DATUM AS NOTED IN SPOT ELEVATIONS. THE ROOF DATUM REPRESENTS THE UNDERSIDE OF METAL DECK AT CORNERS. THE ROOF SLOPES. REFER TO ARCHITECTURAL DRAWINGS FOR THE SLOPES.
- TOP OF STEEL BEAMS ARE 102 mm BELOW THE UNDERSIDE OF ROOF DECK UNLESS NOTED THUS. WHERE NOTED,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

STEEL BEAM SCHEDULE - HIGH ROOF

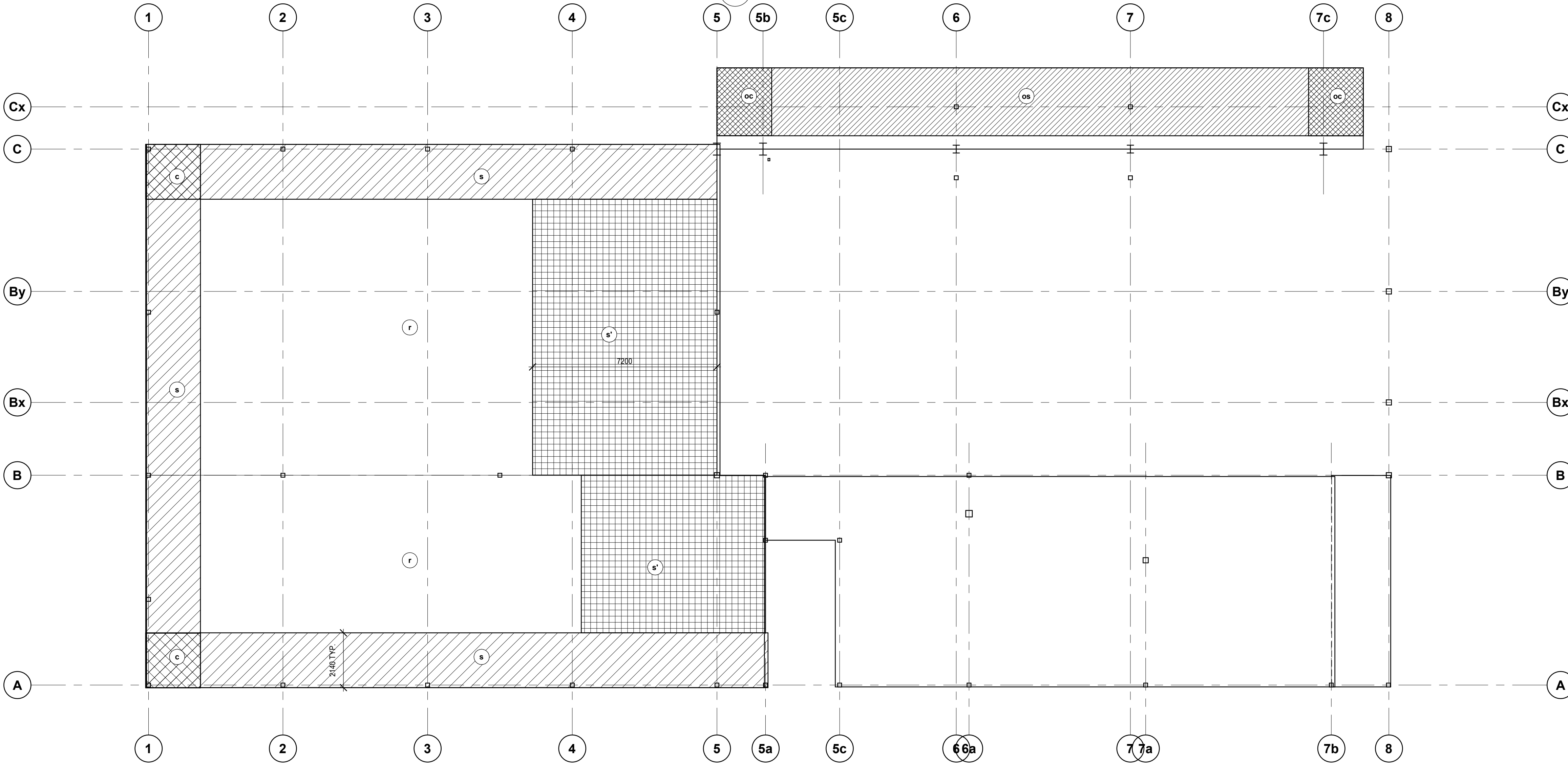
MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
RB1	W310x39	15 kN	15 kN	Cf=15 kN Tf=15 kN
RB2	W310x39	35 kN	35 kN	Cf=45 kN Tf=45 kN
RB3	W310x39	35 kN	35 kN	Cf=75 kN Tf=75 kN
RB4	W310x39	35 kN	35 kN	Cf=50 kN Tf=50 kN
RB5	W310x39	15 kN	15 kN	Cf=15 kN Tf=15 kN
RB11	W310x39	50 kN	50 kN	Cf=40 kN Tf=40 kN
RB12	W310x39	50 kN	50 kN	Cf=70 kN Tf=70 kN
RB13	W310x39	50 kN	50 kN	Cf=35 kN Tf=35 kN
RB15	W310x39	35 kN	35 kN	Cf=95 kN Tf=95 kN
RB16	W310x39	35 kN	35 kN	Cf=95 kN Tf=95 kN
RB18	W310x39	35 kN	35 kN	M(L)=40 kN-m M(R)=40 kN-m Cf=40 kN Tf=40 kN
RB19	W310x39	35 kN	35 kN	M(L)=25 kN-m M(R)=25 kN-m Cf=40 kN Tf=40 kN
RB20	W310x39	35 kN	35 kN	M(L)=30 kN-m M(R)=30 kN-m Cf=40 kN Tf=40 kN
RB21	W610x101	200 kN	190 kN	
RB22	W610x113	300 kN	290 kN	
RB23	W610x113	305 kN	300 kN	
RB24	W610x82	210 kN	205 kN	
RB25	W410x46	110 kN	115 kN	Cf=30 kN Tf=30 kN
RB26	W530x66	195 kN	205 kN	
RB27	W530x66	190 kN	220 kN	
RB28	W530x66	115 kN	130 kN	Cf=40 kN Tf=40 kN
RB29	W610x82	325 kN	405 kN	
RB30	W920x223	470 kN	595 kN	
RB31	W310x21	15 kN	15 kN	CAMBER 19mm
RB32	W310x28	40 kN	40 kN	
RB33	W310x28	45 kN	45 kN	
RB34	W310x28	55 kN	55 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 (M), TORSIONAL MOMENT (Tm) OR OUT OF PLANE HORIZONTAL FORCE (H) SHOWN IN THE REMARKS COLUMN. IN ADDITION TO 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.



1 WIND UPLIFT - HIGH ROOF
S103 1:100



2 WIND UPLIFT - LOW ROOF
S103 1:100

WIND UPLIFT DIAGRAM

NOTES:

- PRESSURES SHOWN ARE UNFACTORED DESIGN UPLIFT PRESSURES IN kPa FOR THE DESIGN OF JOISTS AND METAL DECK AND THEIR CONNECTIONS.
- UPLIFT PRESSURES SHOWN HAVE BEEN REDUCED FOR THE EFFECT OF DEAD LOADS.
- PRESSURES ARE INCLUSIVE OF INTERNAL PRESSURE.

NET UPLIFT PRESSURES (kPa):						
ZONE	r	s	c	s'	os	oc
JOISTS	0.31	0.47	0.55	0.38	0.54	1.03
DECK	0.40	0.53	1.18	0.45	0.56	1.05

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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN: Author	CHECKED: Checker
SCALE: As indicated	PROJECT NUMBER: 210112

SHEET TITLE:
WIND UPLIFT DIAGRAMS

S103

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PROJECT NAME:
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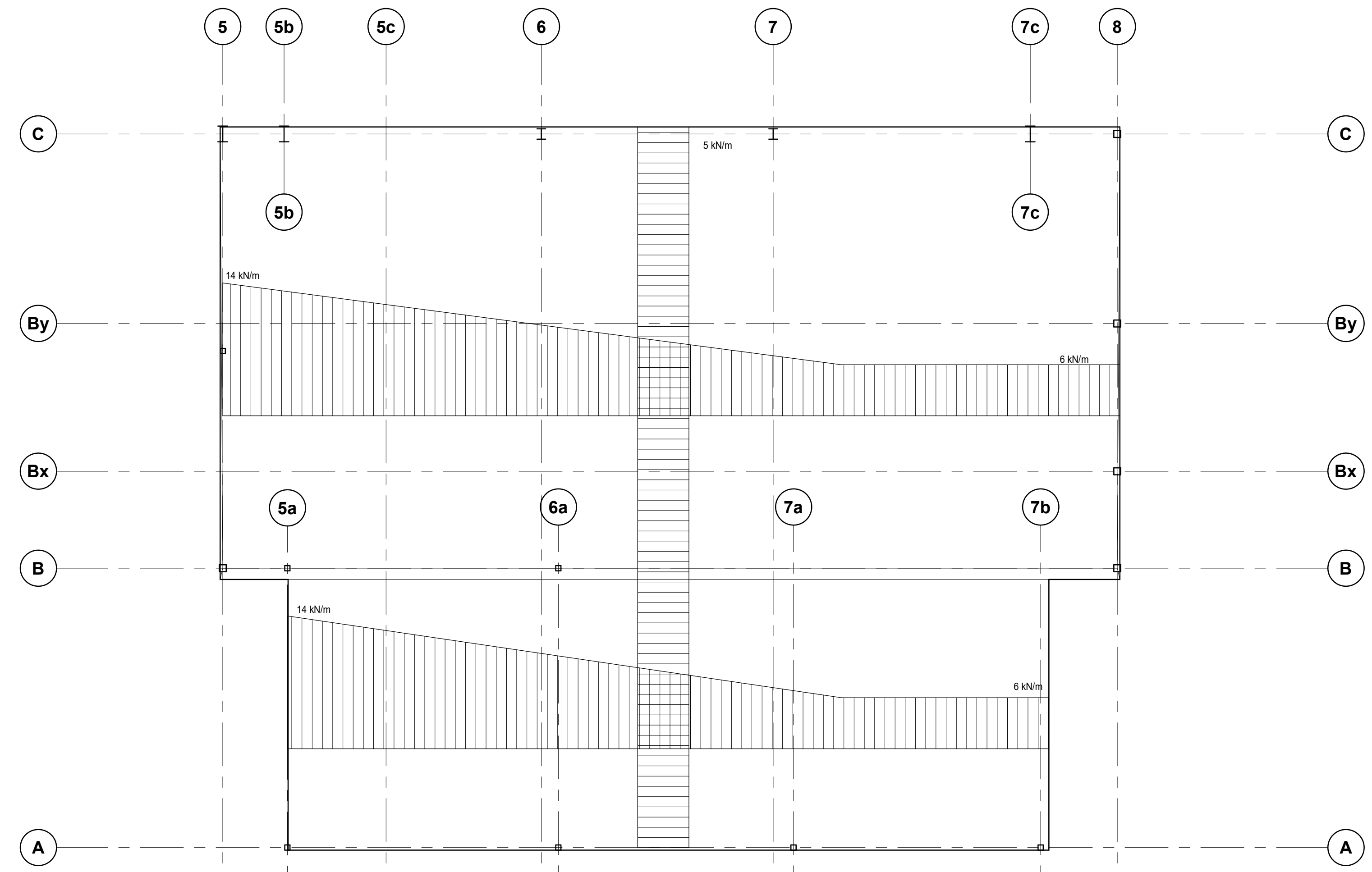
PROJECT ADDRESS:
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SEAL:

DRAWN: DM	CHECKED: IFM
SCALE: As indicated	PROJECT NUMBER: 210112

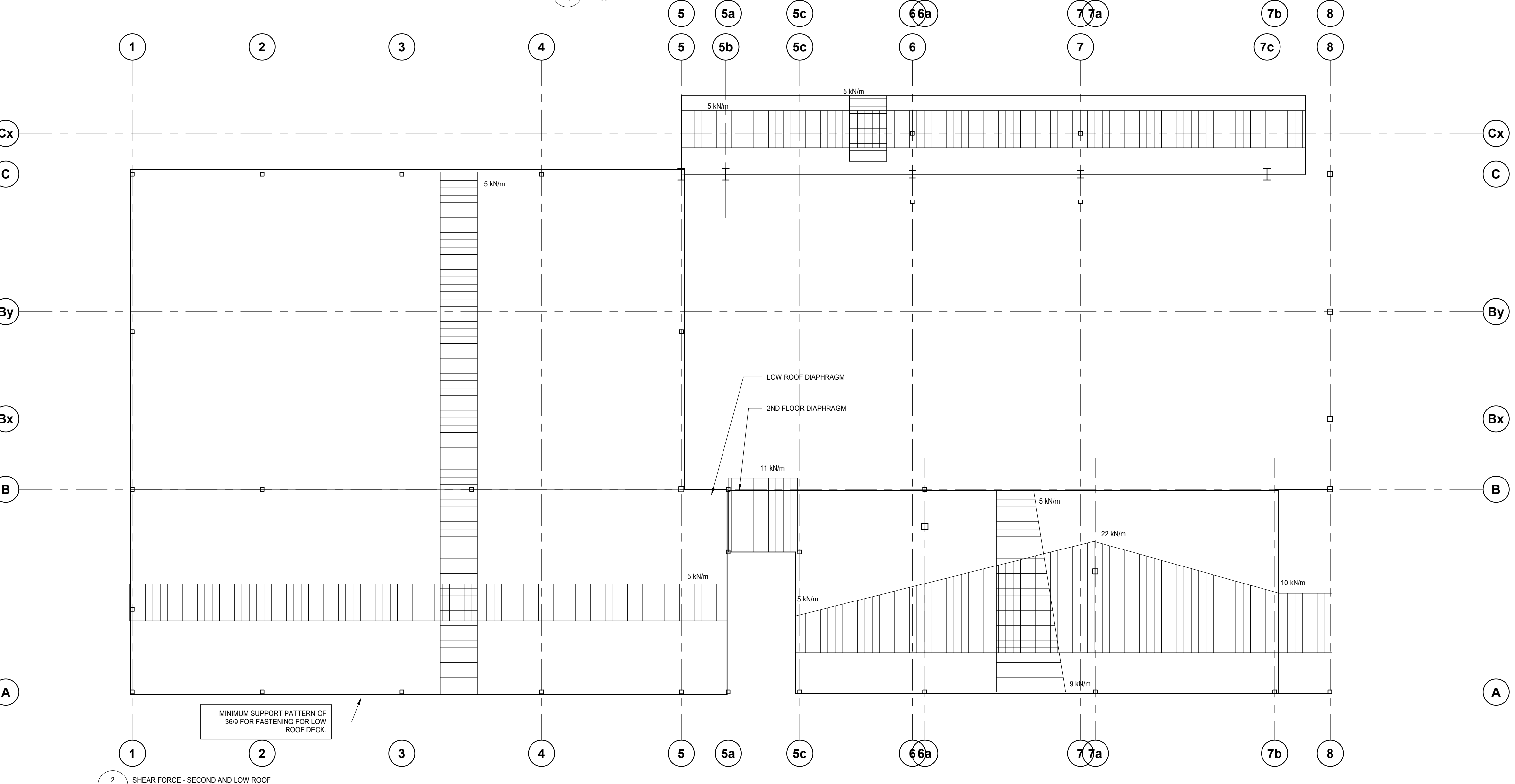
SHEET TITLE:
SHEAR FORCE DIAGRAMS

S104



ROOF SHEAR FORCE DIAGRAM

NOTES:
1. SHEAR FORCES SHOWN ARE FACTORED (ULS DESIGN FORCES IN kN/m FOR THE DESIGN OF METAL DECK AND ASSOCIATED CONNECTIONS).
2. MECHANICAL FASTENERS HAVE BEEN ASSUMED WITH AN R_oR_w = 1.95. IF WELDED CONNECTIONS ARE TO BE USED, THE FACTORED FORCES MUST BE INCREASED 1.5 TIMES BASED ON AN R_oR_w = 1.3.



COLUMN SCHEDULE																				
HIGH PARAPET																				HIGH PARAPET
10000																				10000
LOW PARAPET																				LOW PARAPET
5500 LEVEL 2																				5500 LEVEL 2
4250																				4250
GROUND LEVEL																				GROUND LEVEL
0																				0
UIS FOOTINGS																				UIS FOOTINGS
-1500																				-1500
COLUMN LOCATIONS	LRC10	LRC9	LRC11	LRC12	LRC13	LRC14	RC16	2C5	RC17	RC18	RC19	2C6	LRC6	LRC7	LRC8	RC10	RC20	2C1	2C3	RC12

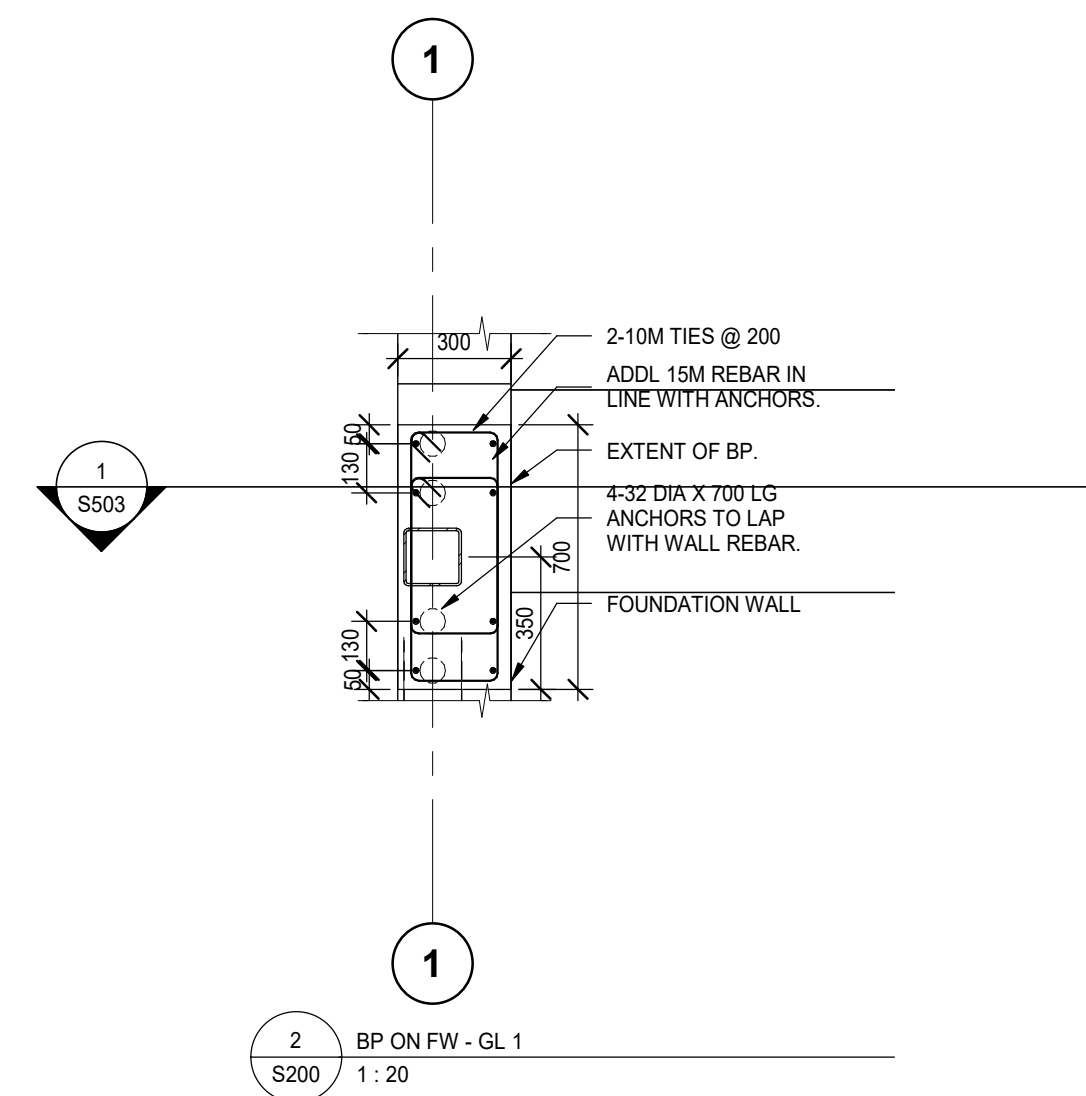
COLUMN SCHEDULE																				
HIGH PARAPET																				HIGH PARAPET
10000																				10000
LOW PARAPET																				LOW PARAPET
5500 LEVEL 2																				5500 LEVEL 2
4250																				4250
GROUND LEVEL																				GROUND LEVEL
0																				0
UIS FOOTINGS																				UIS FOOTINGS
-1500																				-1500
COLUMN LOCATIONS	2C2	2C4	RC15	LRC1	LRC2	LRC3	LRC4	RC1	RC2	RC3	LRC4c	RC4	LRC4d	RC5	RC6	RC9	LRC5	RC7	RC8	LRC4a

COLUMN SCHEDULE	
HIGH PARAPET	HIGH PARAPET
10000	10000
LOW PARAPET	LOW PARAPET
5500 LEVEL 2	5500 LEVEL 2
4250	4250
GROUND LEVEL	GROUND LEVEL
0	0
UIS FOOTINGS	UIS FOOTINGS
-1500	-1500
	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 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 OTHERWISE.
- UPLIFT (TENSION) FORCES ARE PRESENTED IN BRACKETS BESIDE THE ASSOCIATED COMPRESSION FORCE, IF APPLICABLE. UPLIFT FORCES ARE FACTORED IN KN UNLESS NOTED OTHERWISE.
- 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 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.



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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

SEAL:

DRAWN: DM
SCALE: As indicated
SHEET TITLE: COLUMN SCHEDULE

CHECKED: IFM
PROJECT NUMBER: 210112

S200

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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

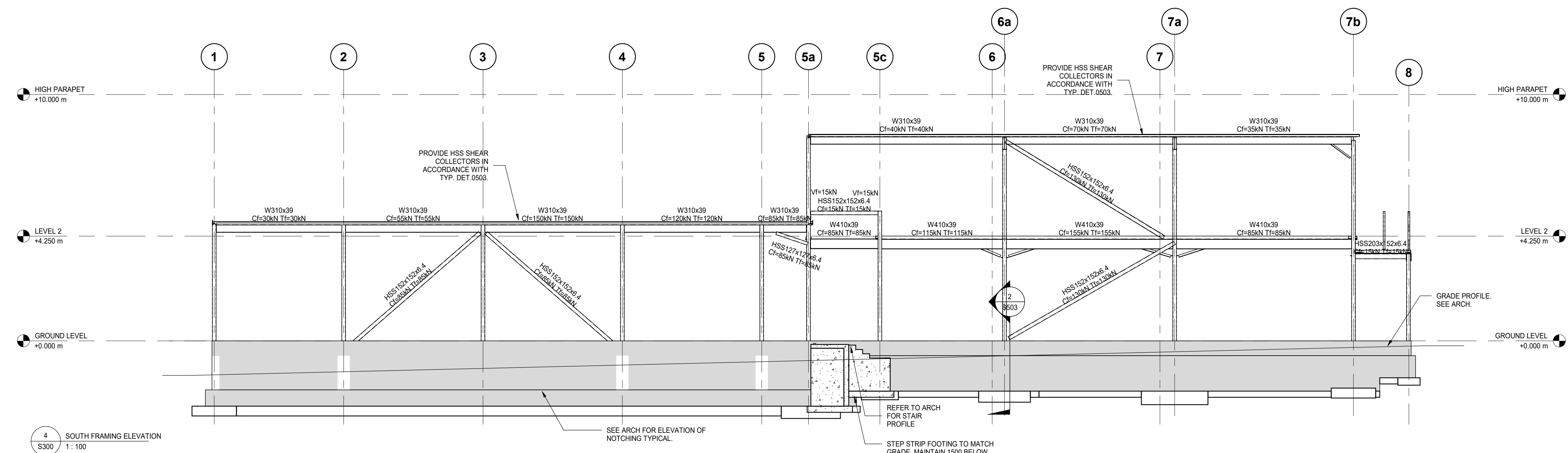
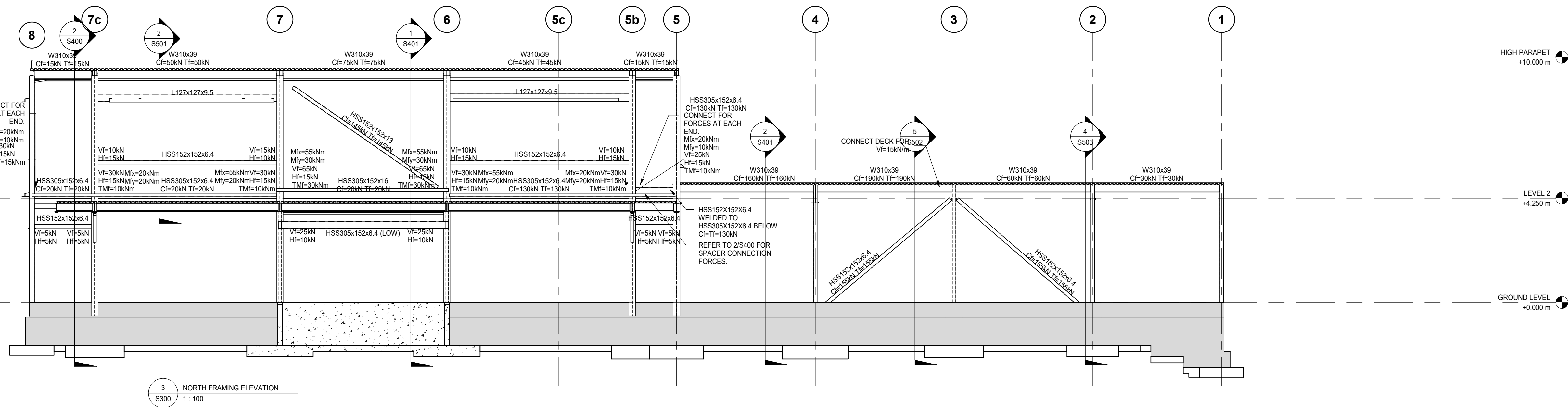
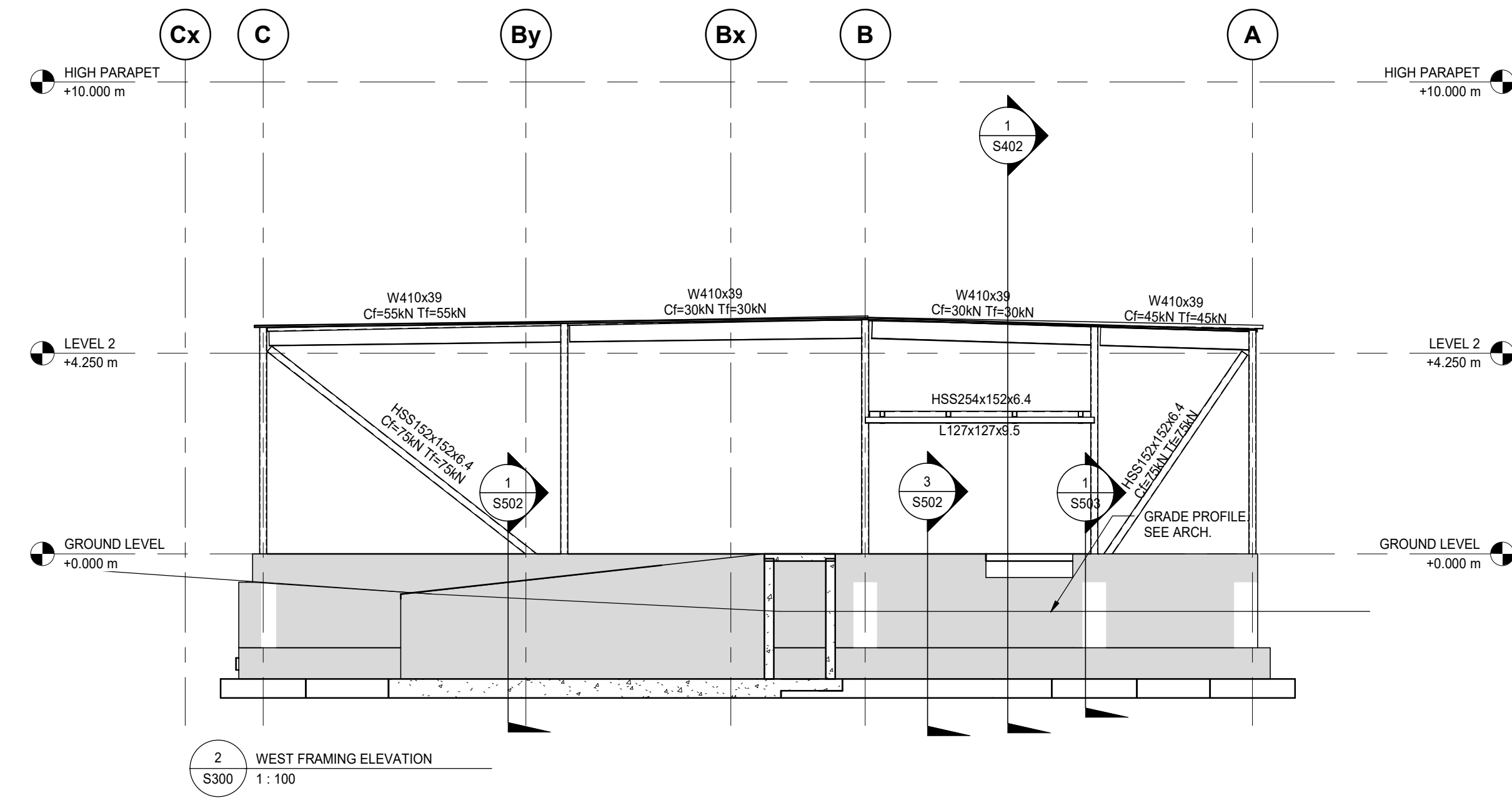
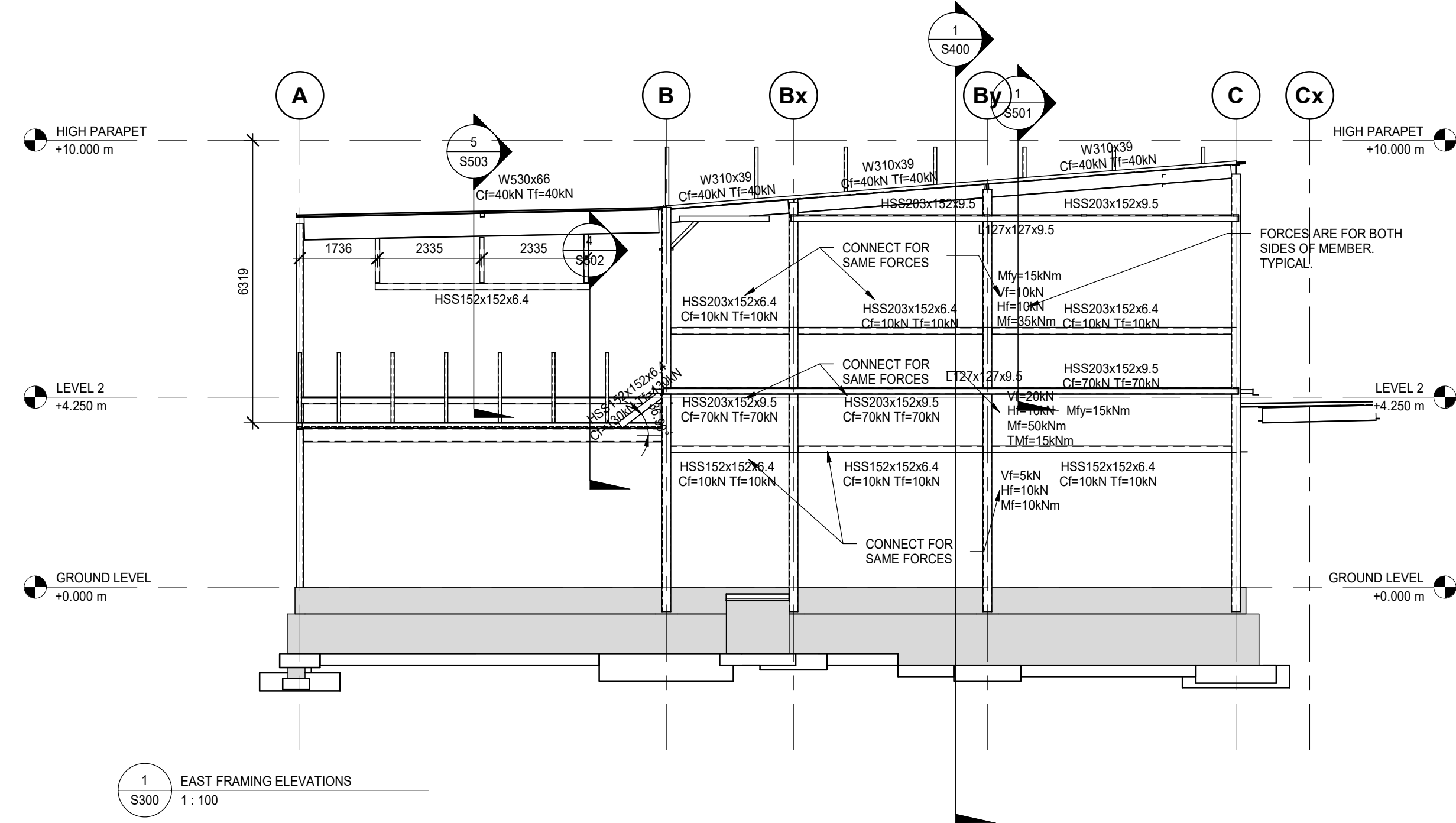
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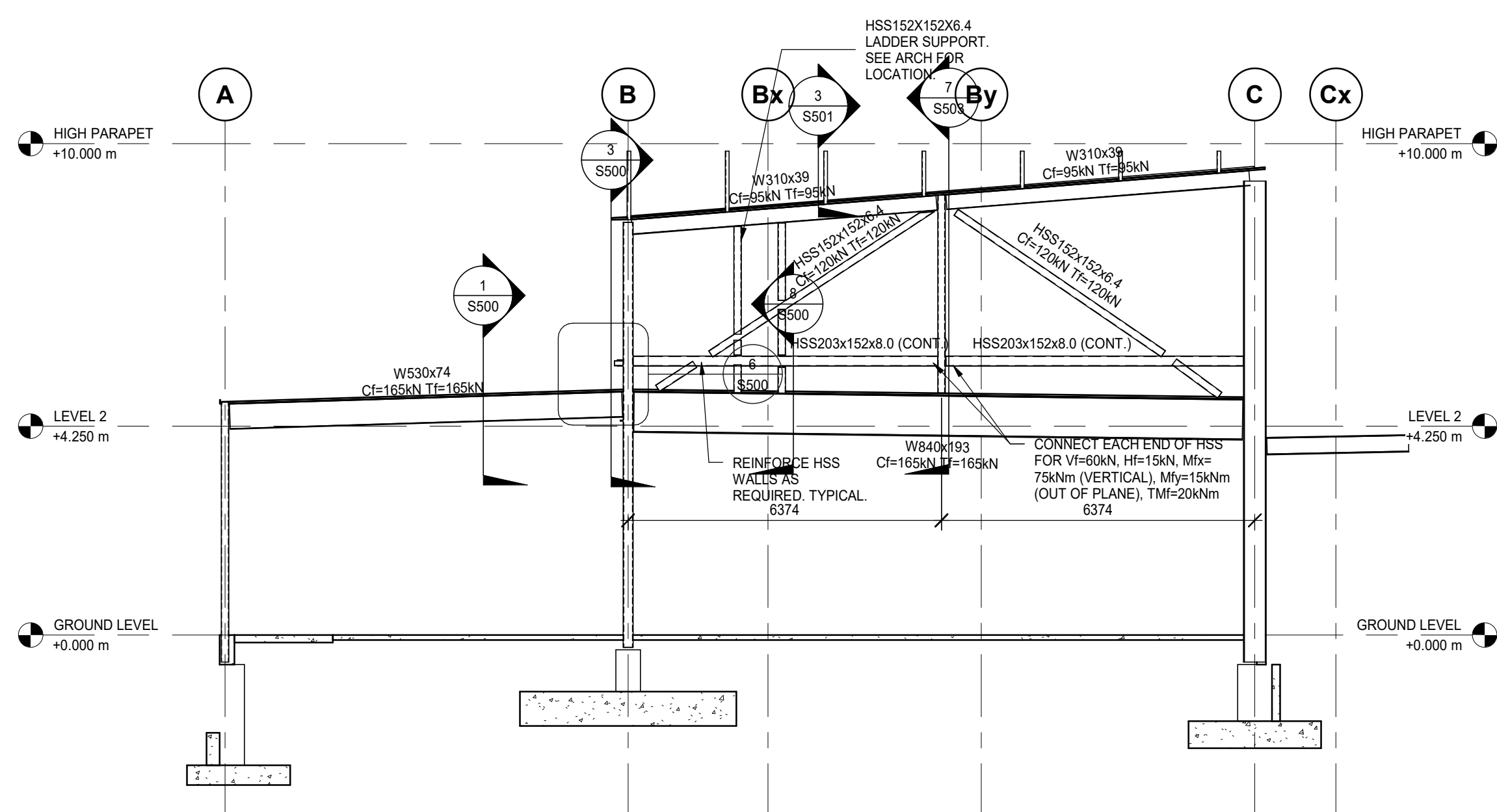
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DRAWN:
DM
SCALE:
1 : 100
SHEET TITLE:
FRAMING ELEVATIONS

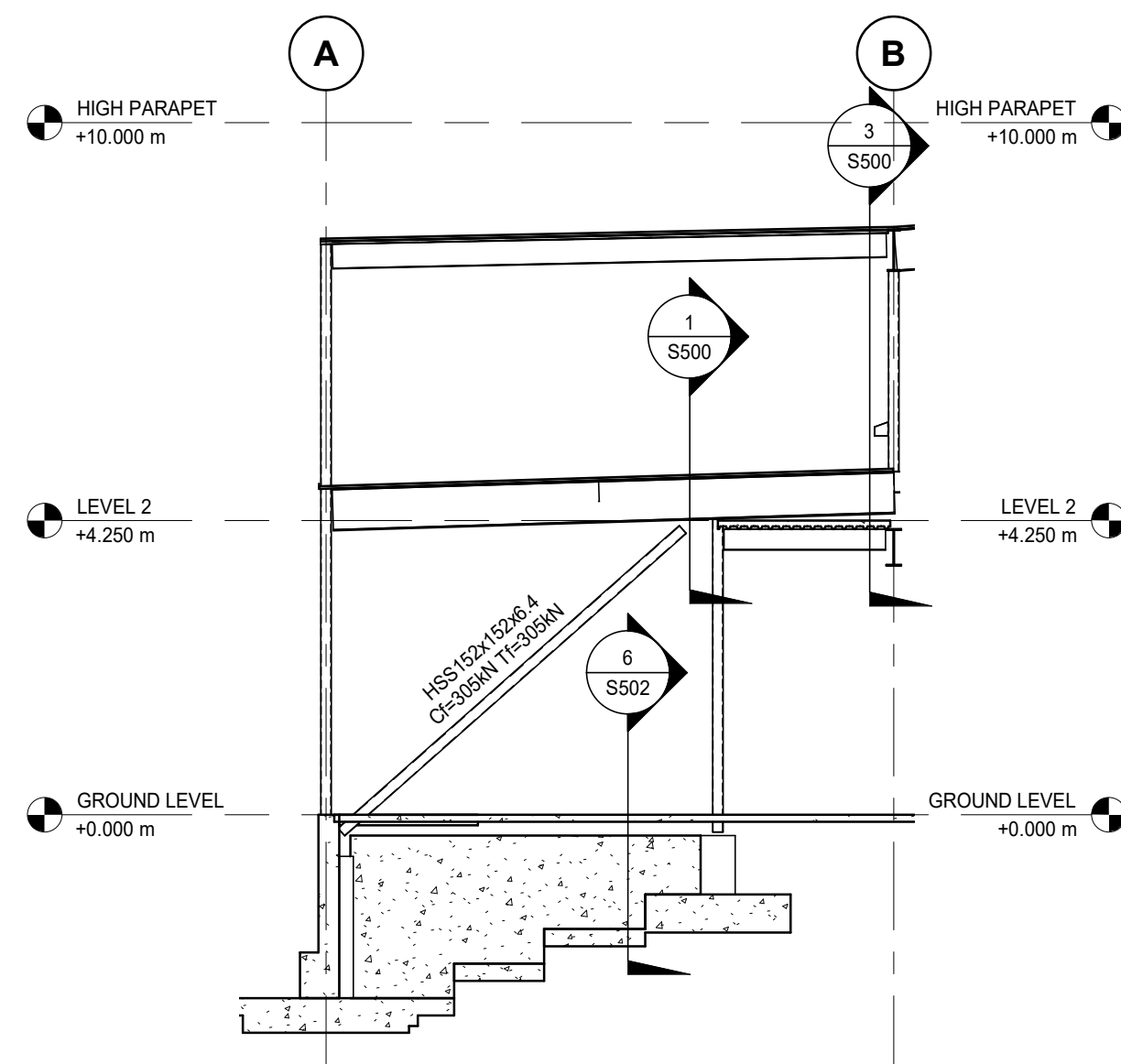
CHECKED:
IFM
PROJECT NUMBER:
210112

S300

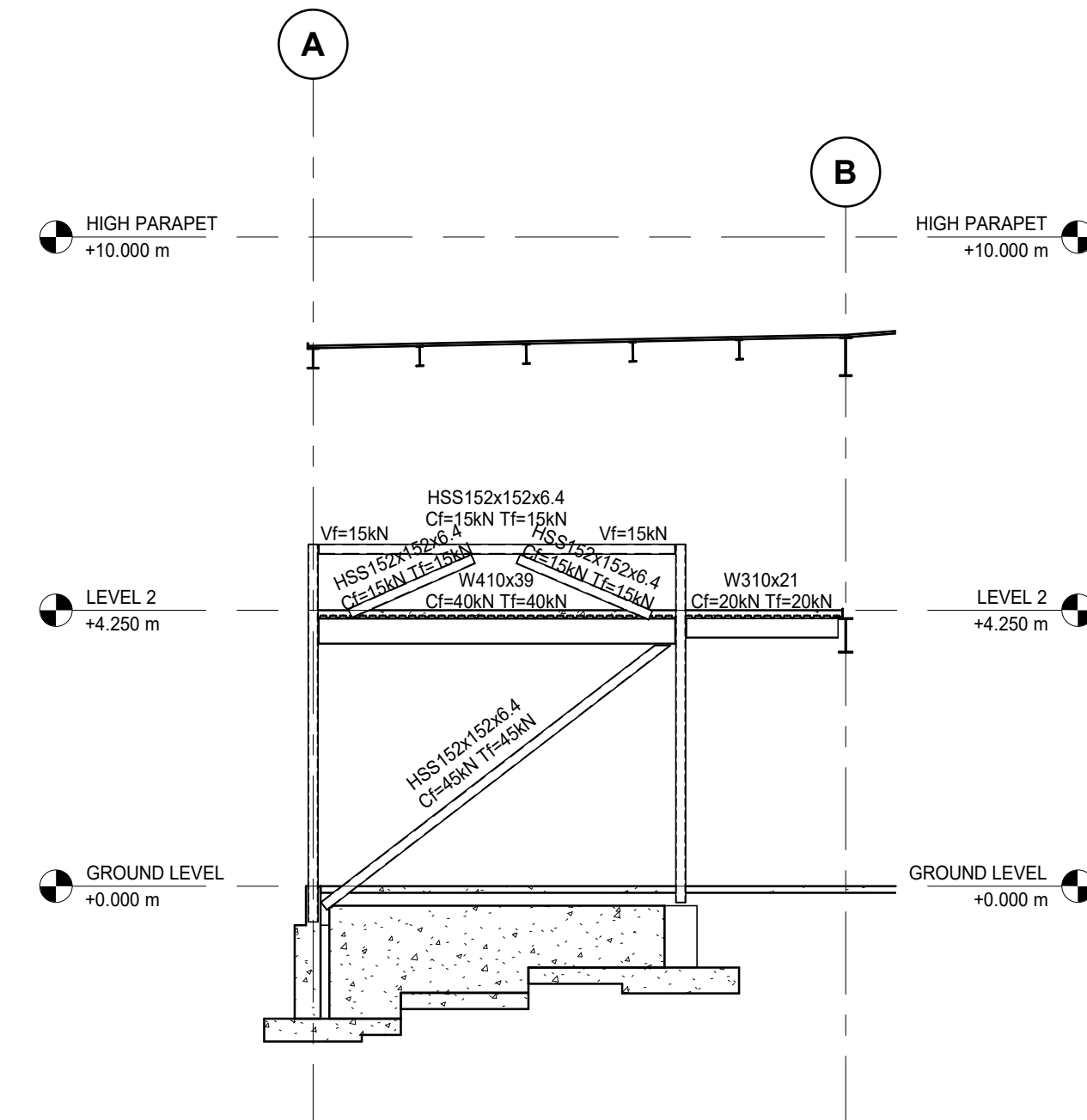




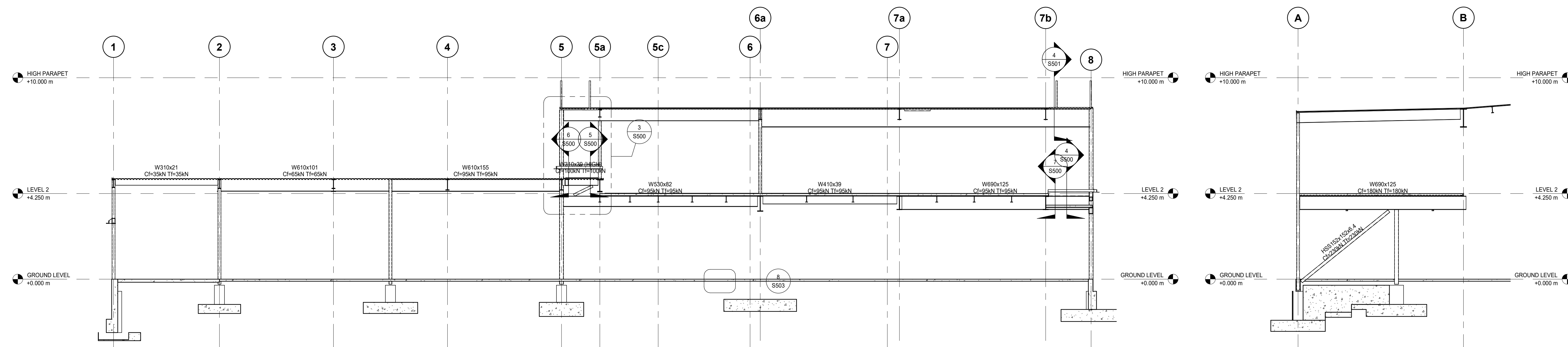
1 HIGH ROOF BRACING
S301 1:100



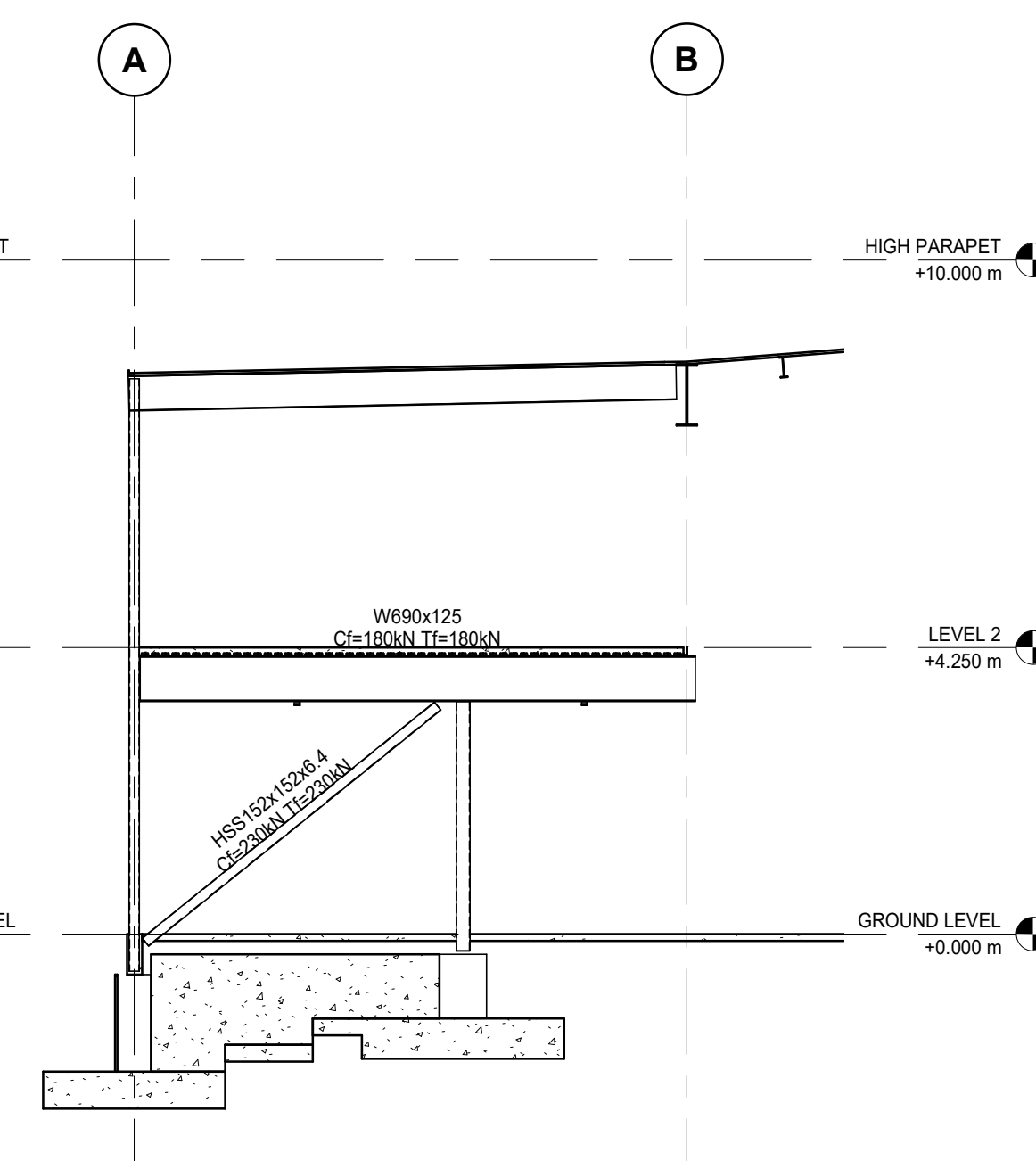
2 FRAMING BRACING NEAR GL 5a
S301 1:100



3 FRAMING BRACING ON GL 6b
S301 1:100



4 LINE B
S301 1:100



5 BRACING NEAR GL 7
S301 1:100

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PROJECT NAME:
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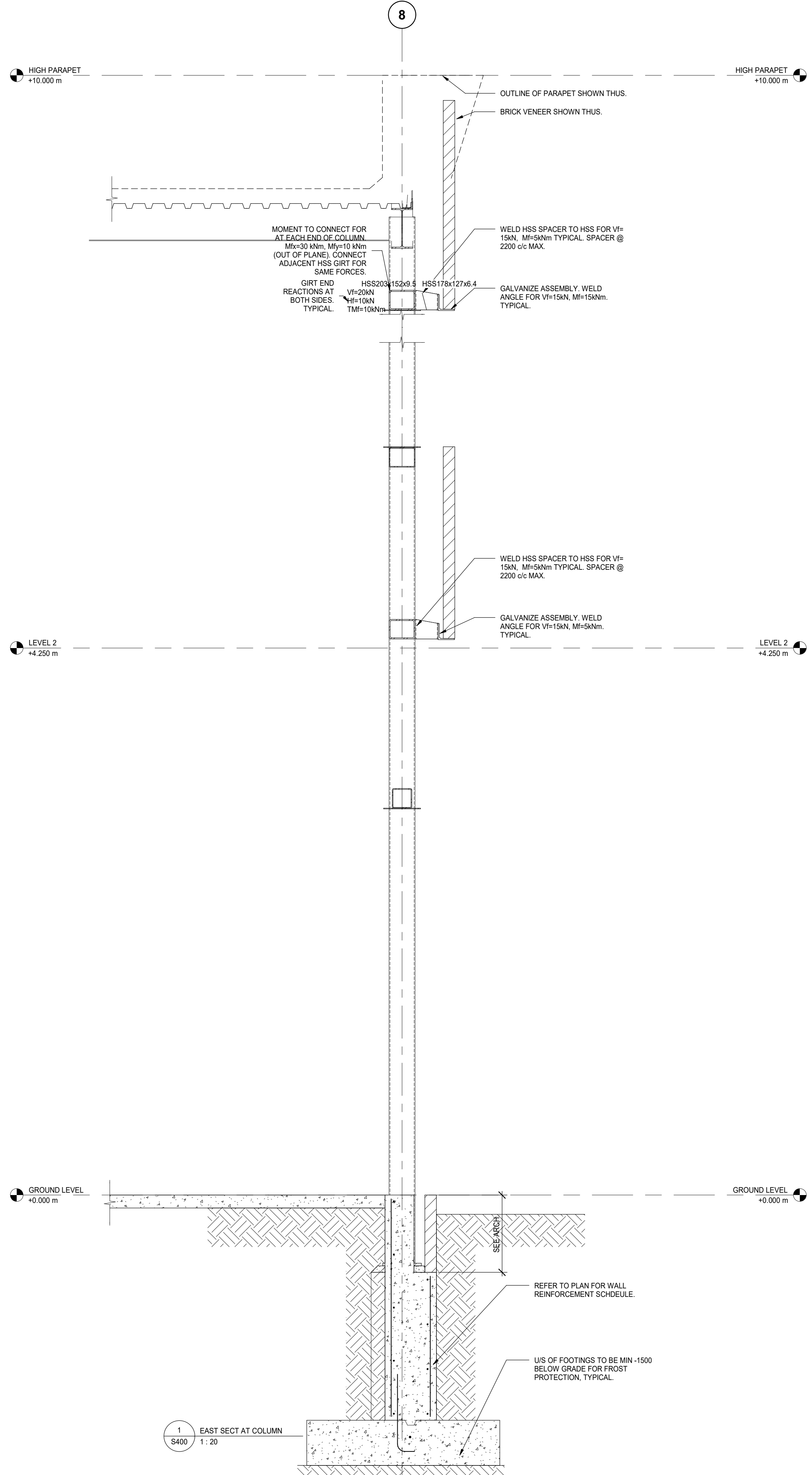
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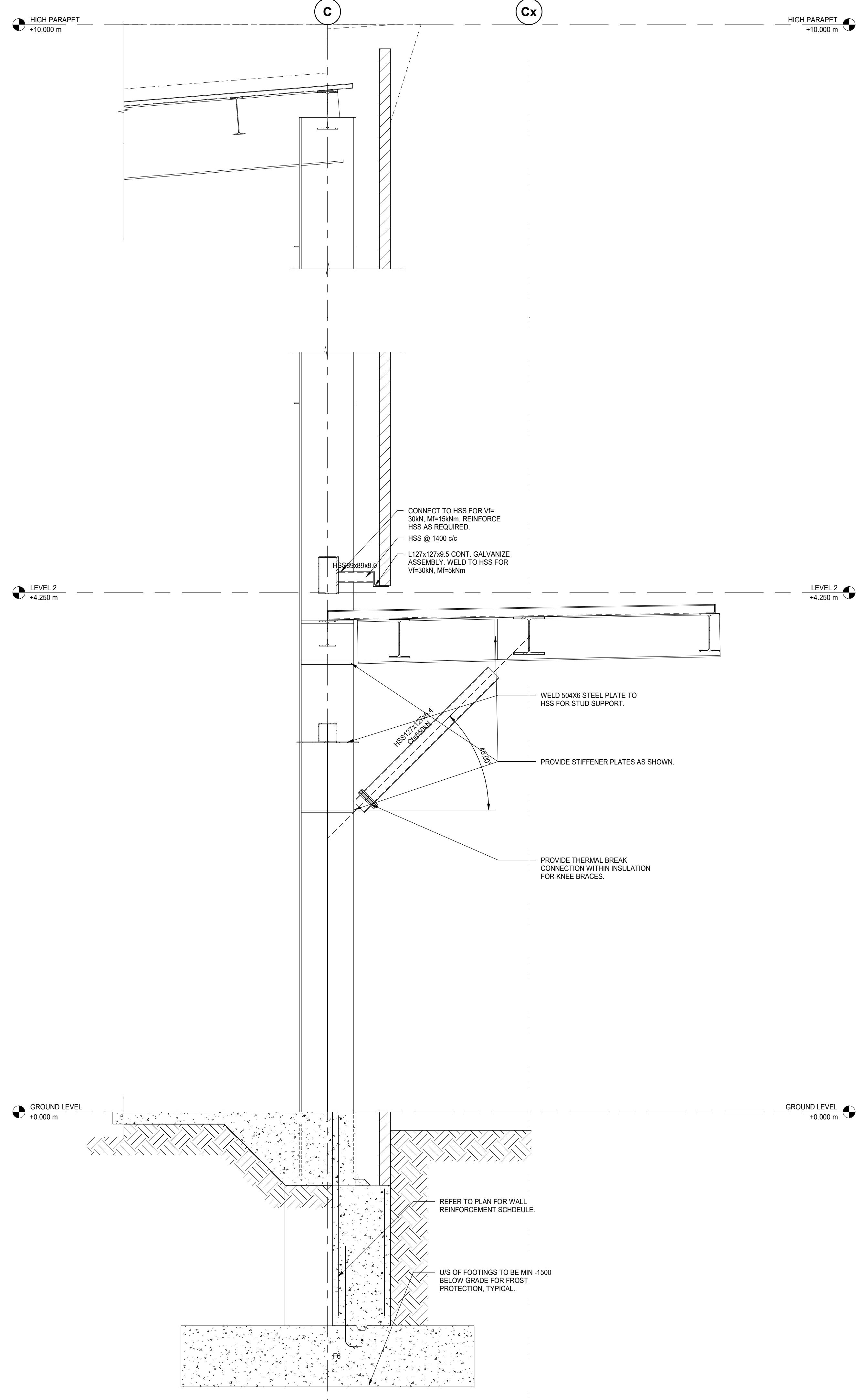
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SCALE: 1 : 100	PROJECT NUMBER: 210112

SHEET TITLE:
FRAMING ELEVATIONS

S301



1 EAST SECT AT COLUMN
S400 1:20



2 NORTH SECT AT COL
S400 1:20

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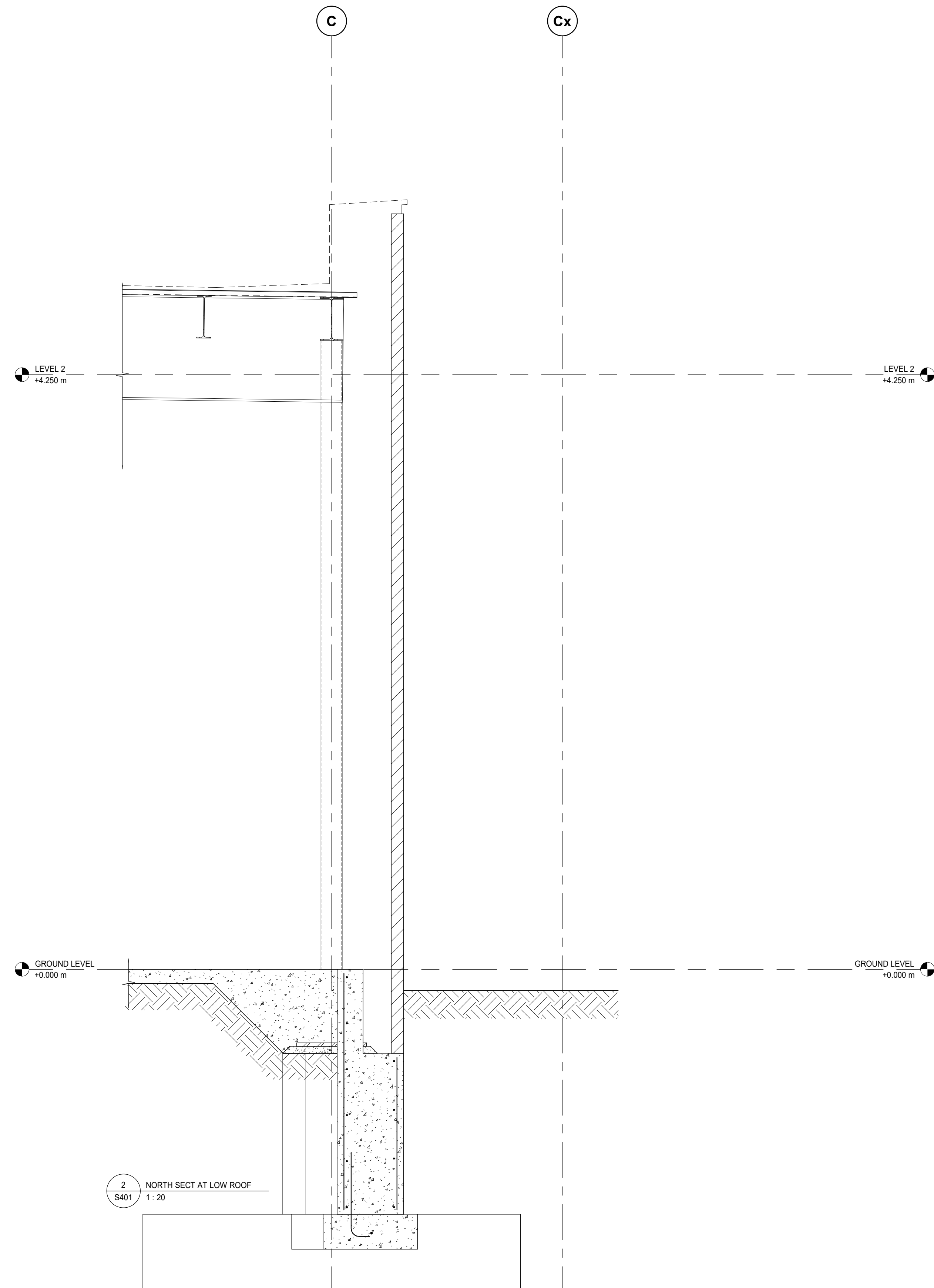
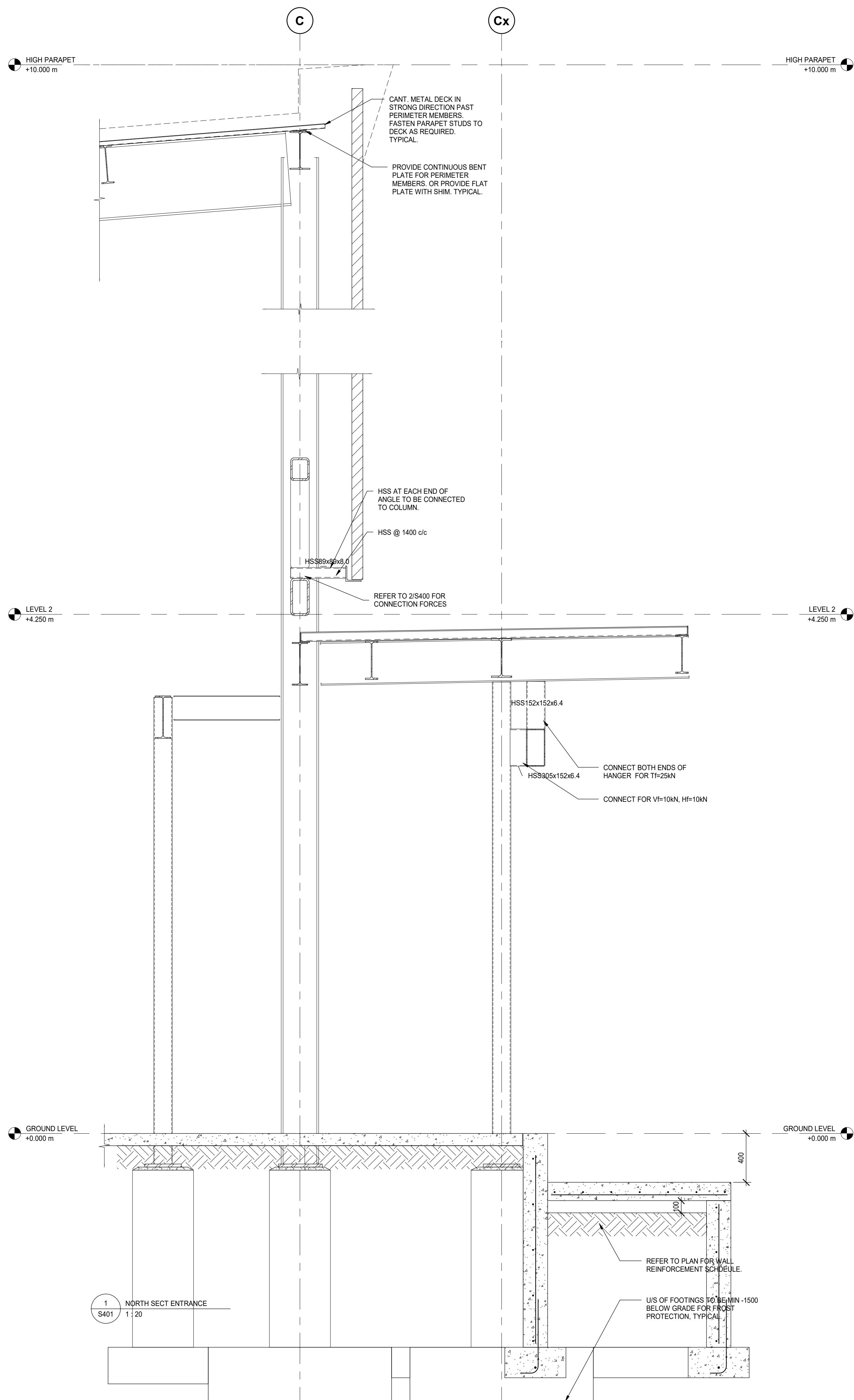
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SCALE: 1 : 20	PROJECT NUMBER: 210112

SHEET TITLE:
BUILDING SECTIONS

S400



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SCALE: 1 : 20	PROJECT NUMBER: 210112

SHEET TITLE:
BUILDING SECTIONS

S401

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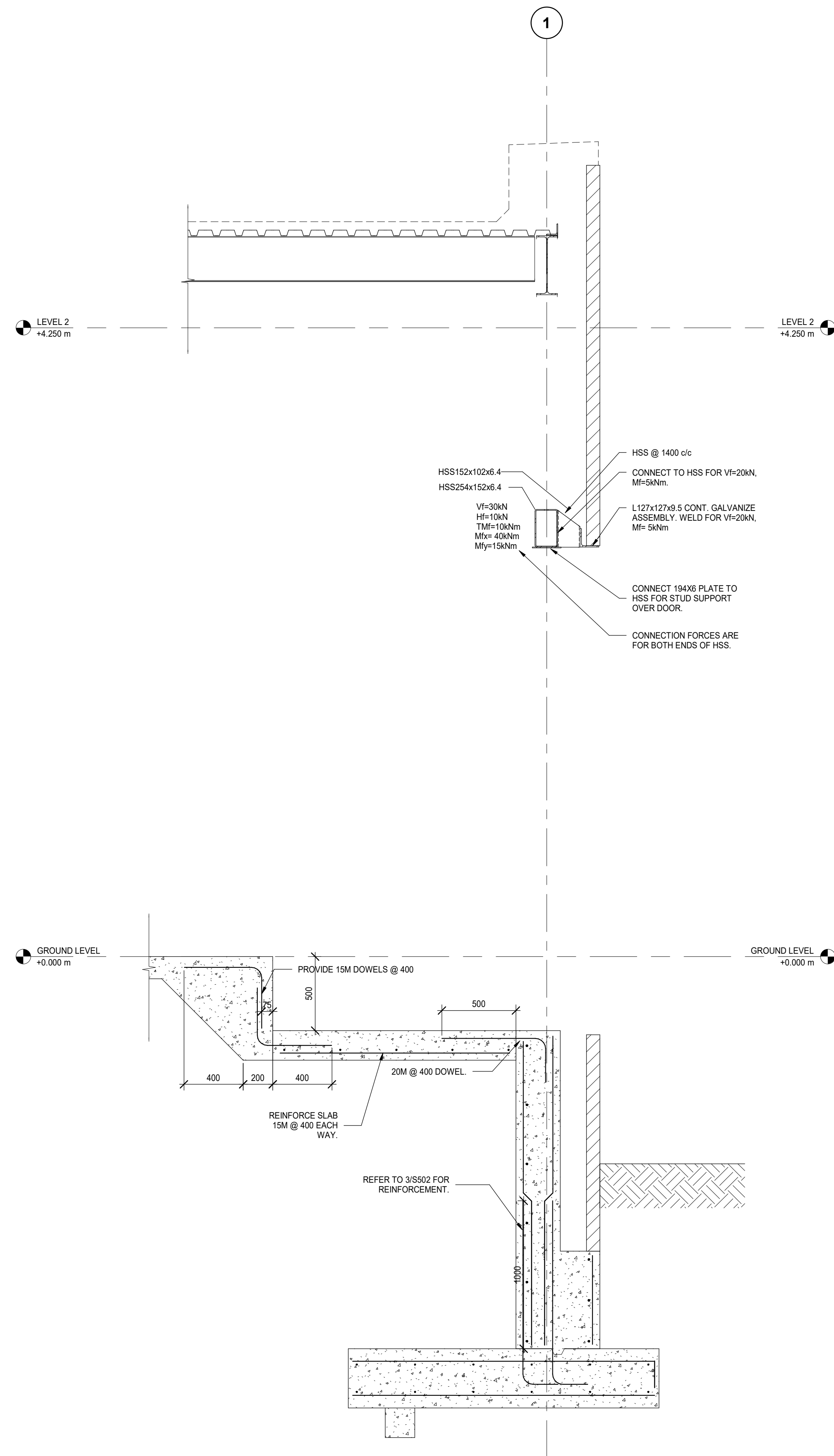
PROJECT ADDRESS:
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SEAL:

DRAWN: DM	CHECKED: IFM
SCALE: 1 : 20	PROJECT NUMBER: 210112

SHEET TITLE:
BUILDING SECTIONS

S402



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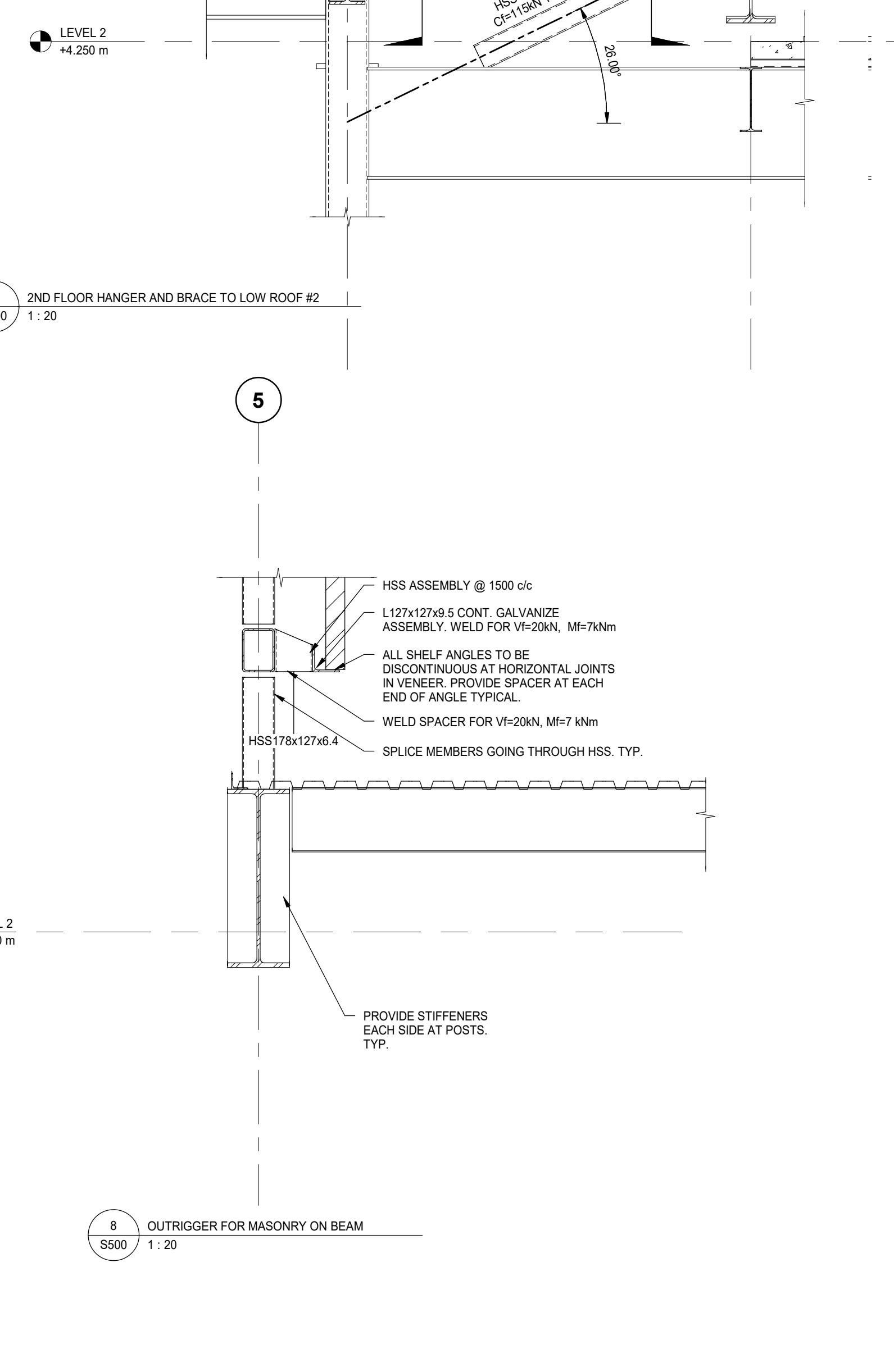
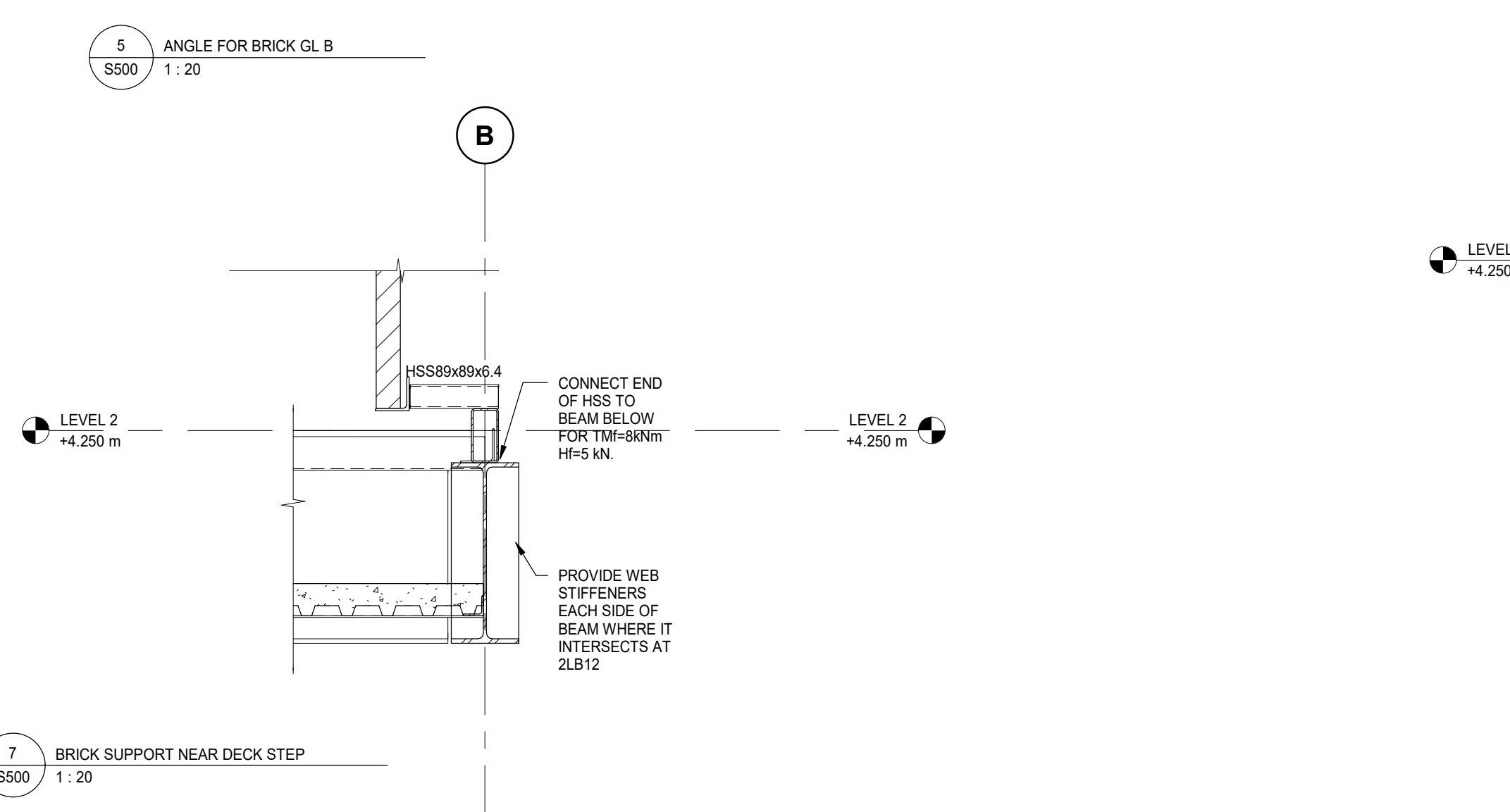
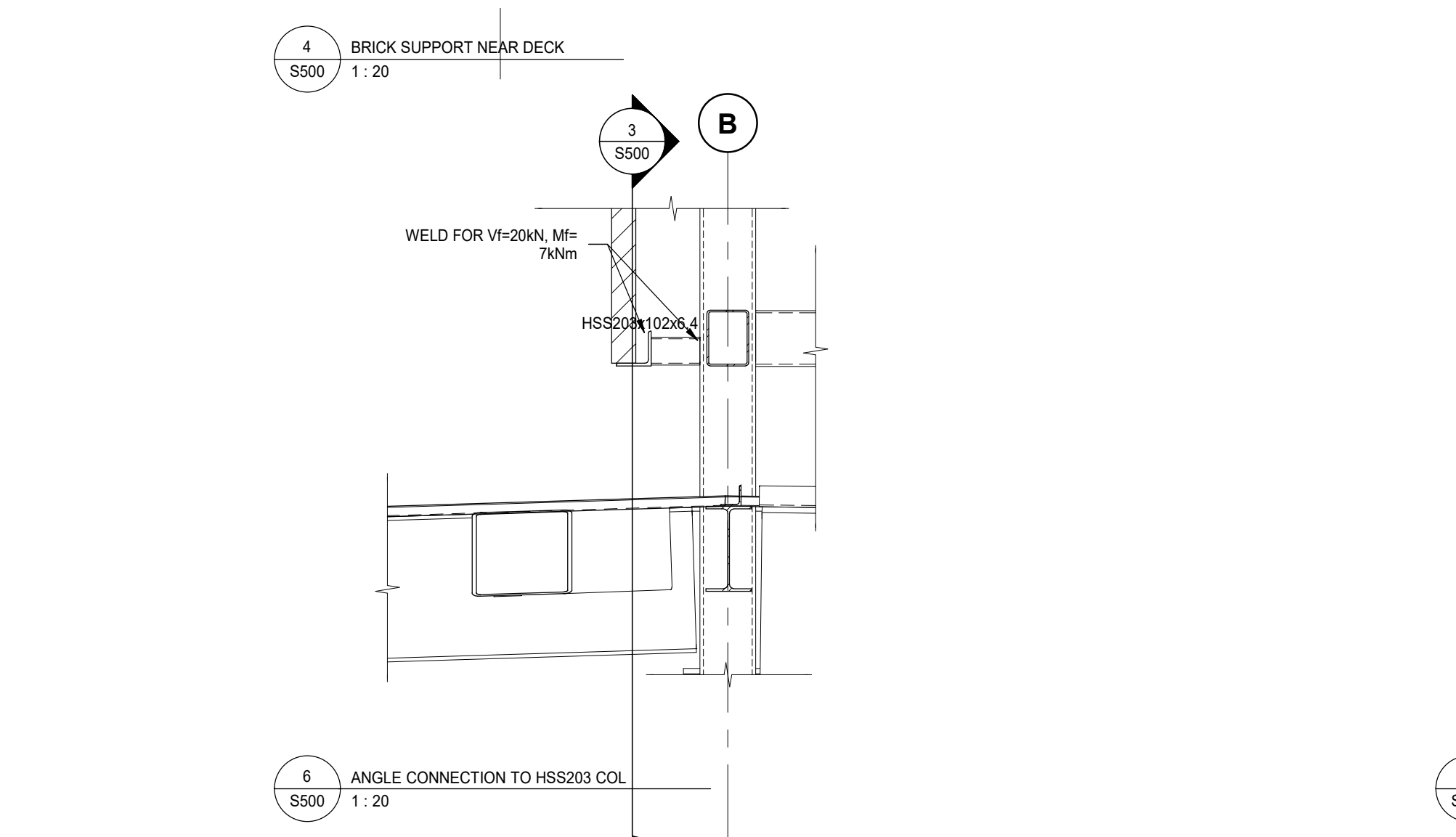
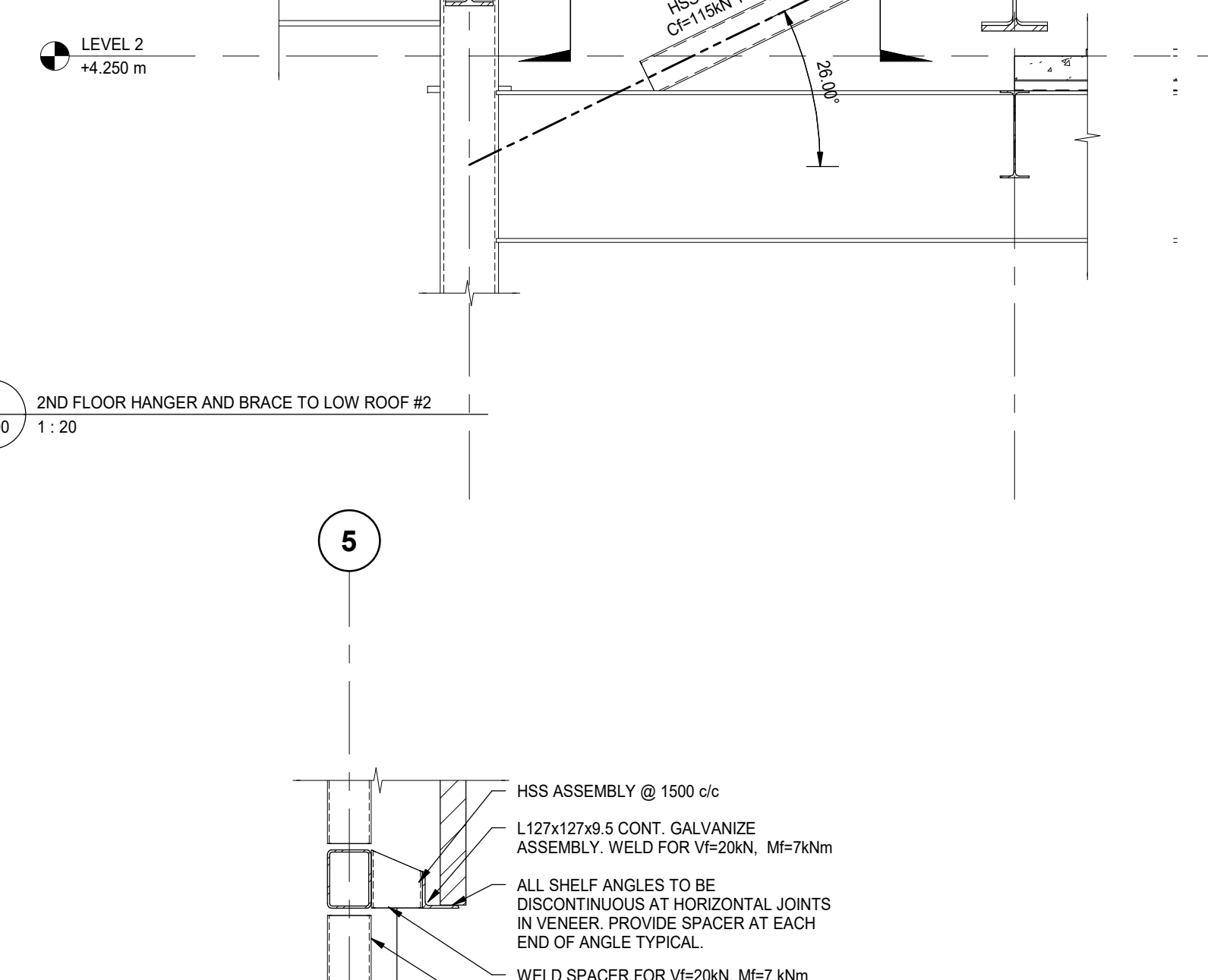
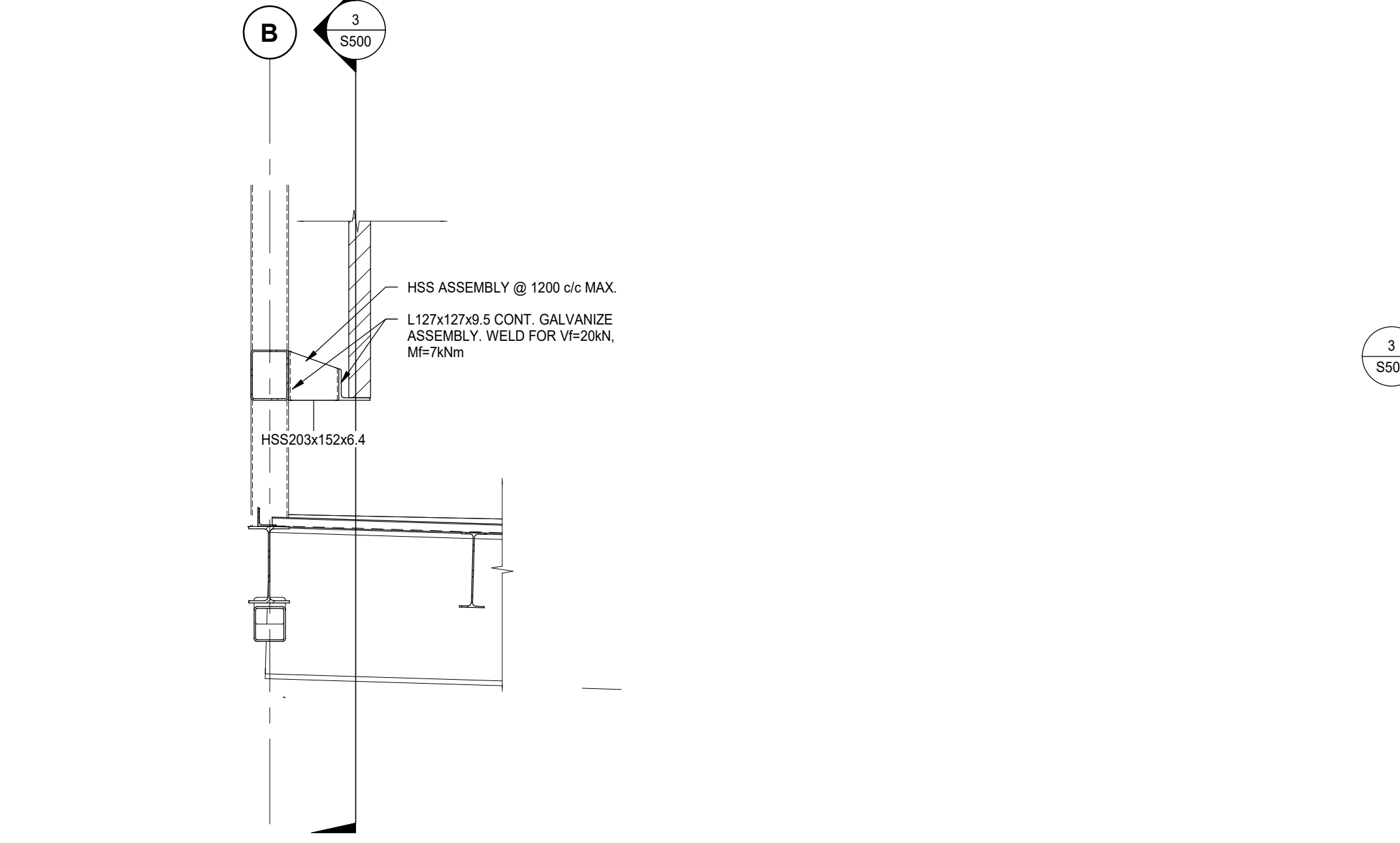
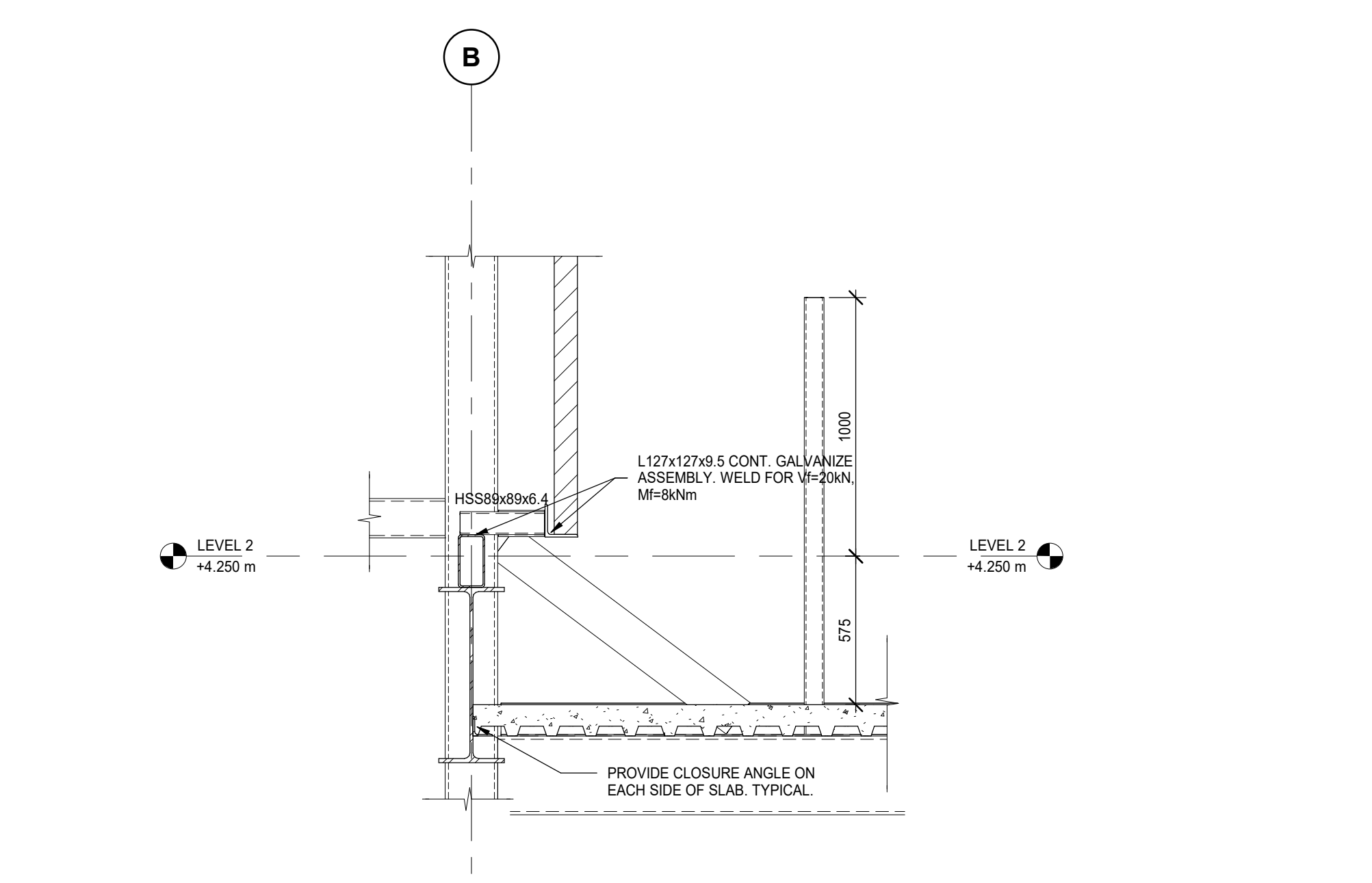
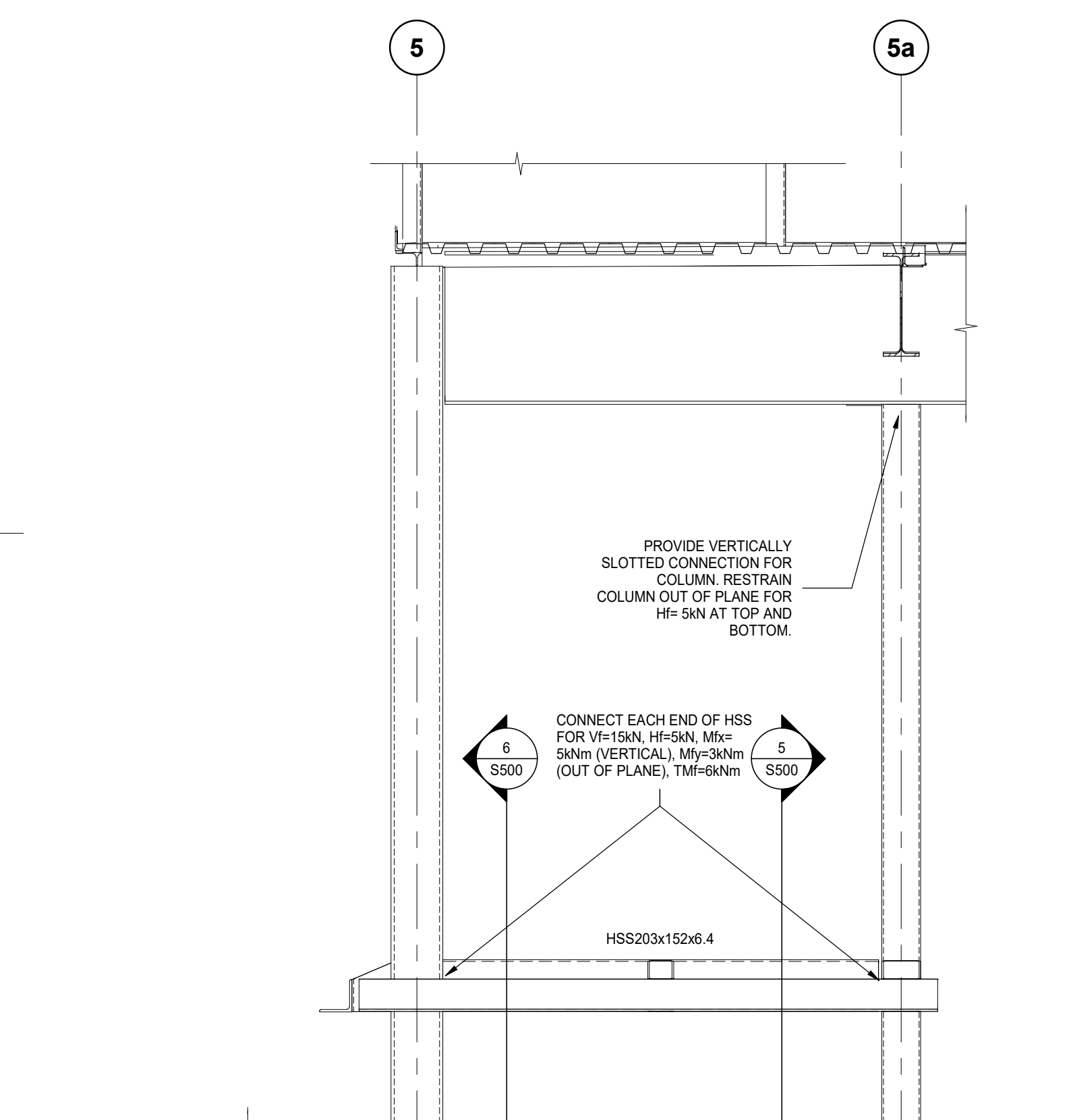
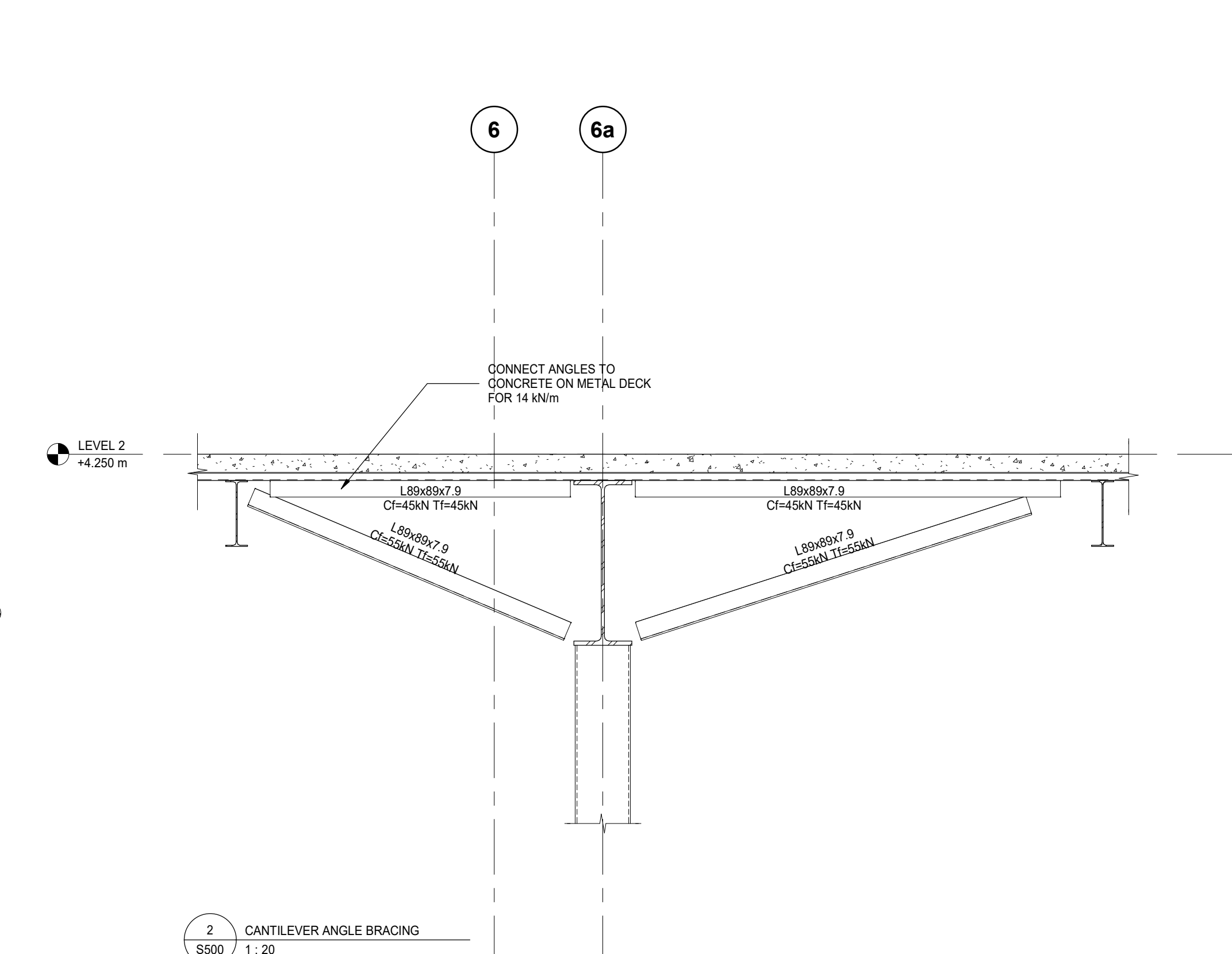
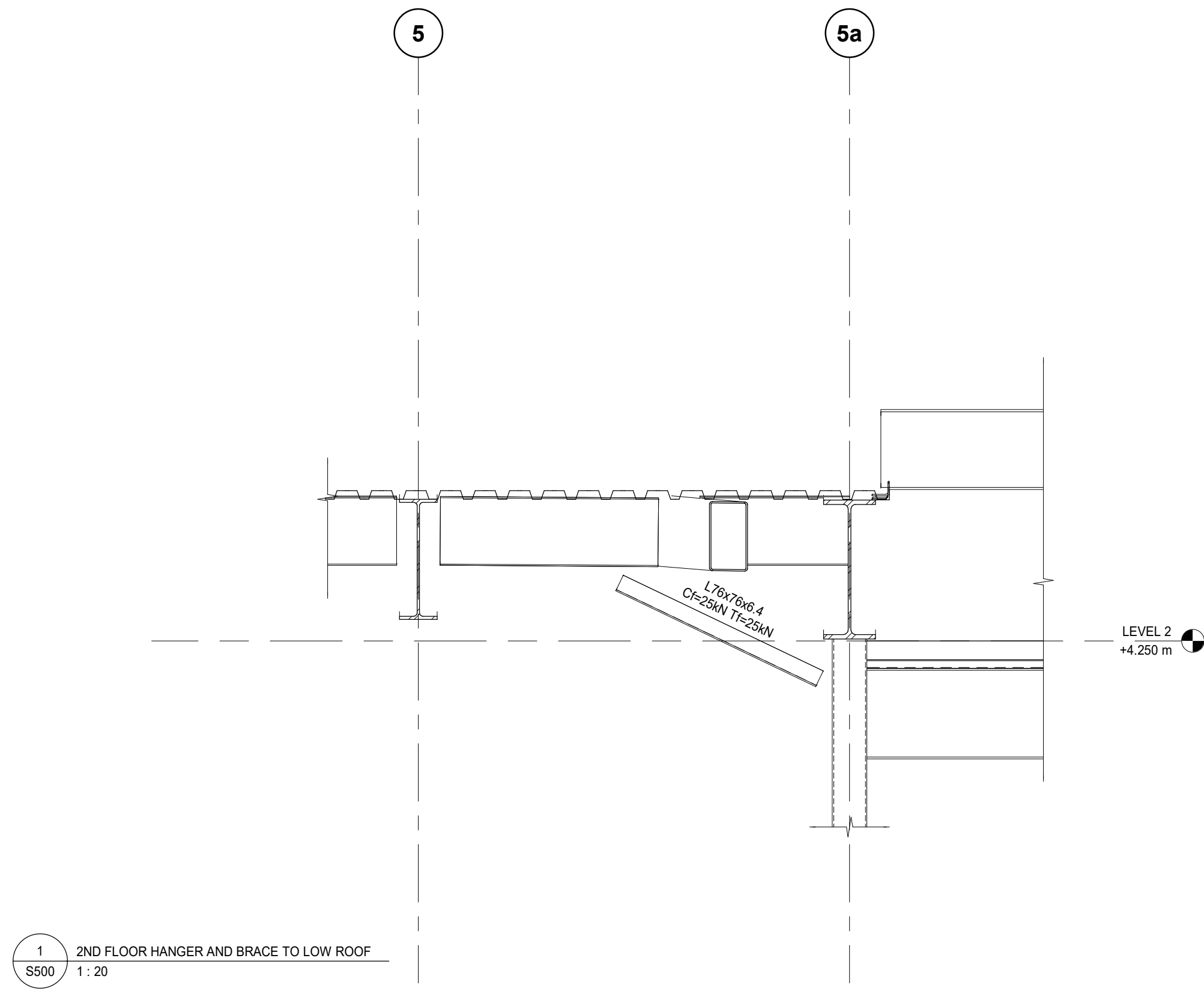
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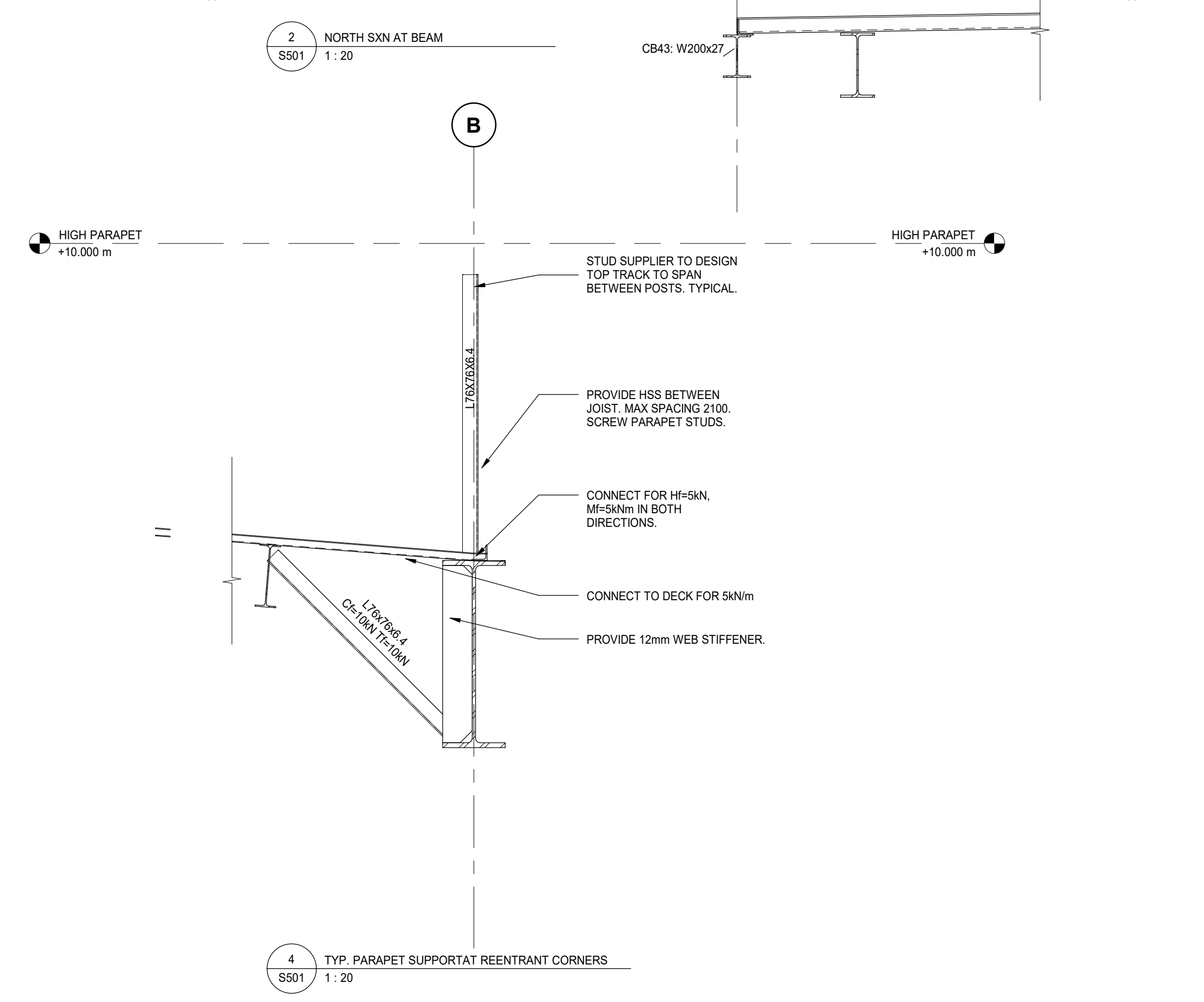
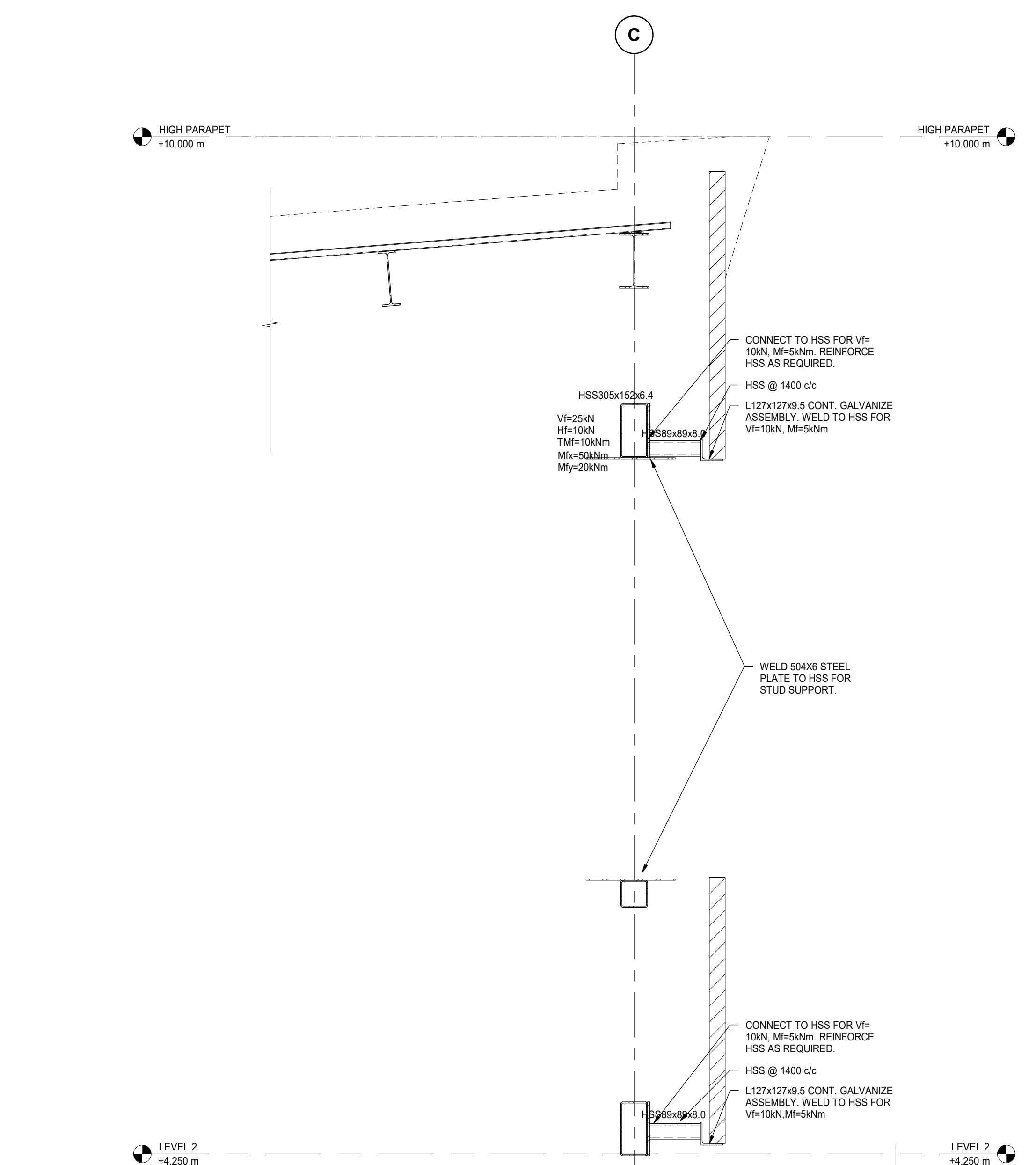
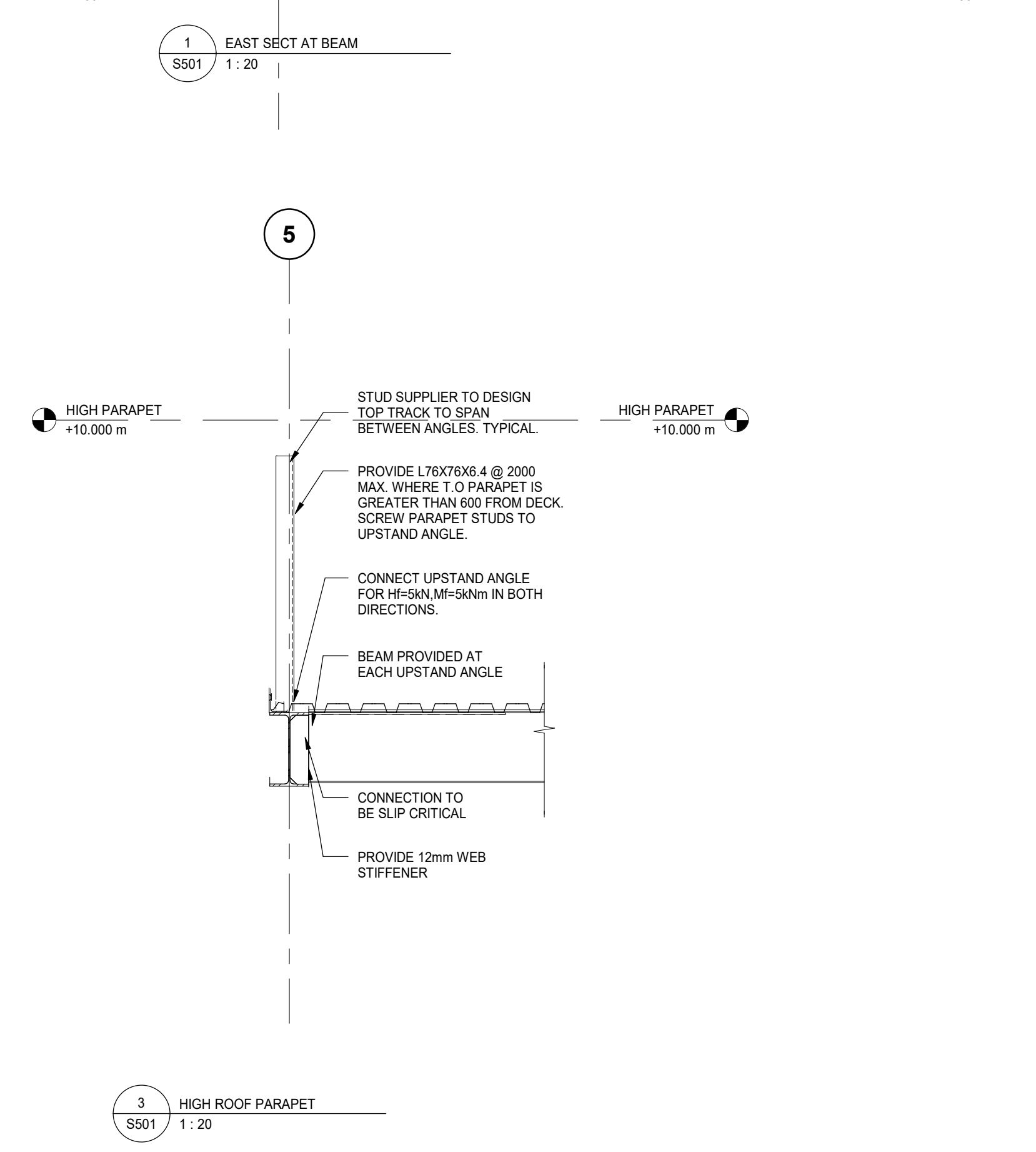
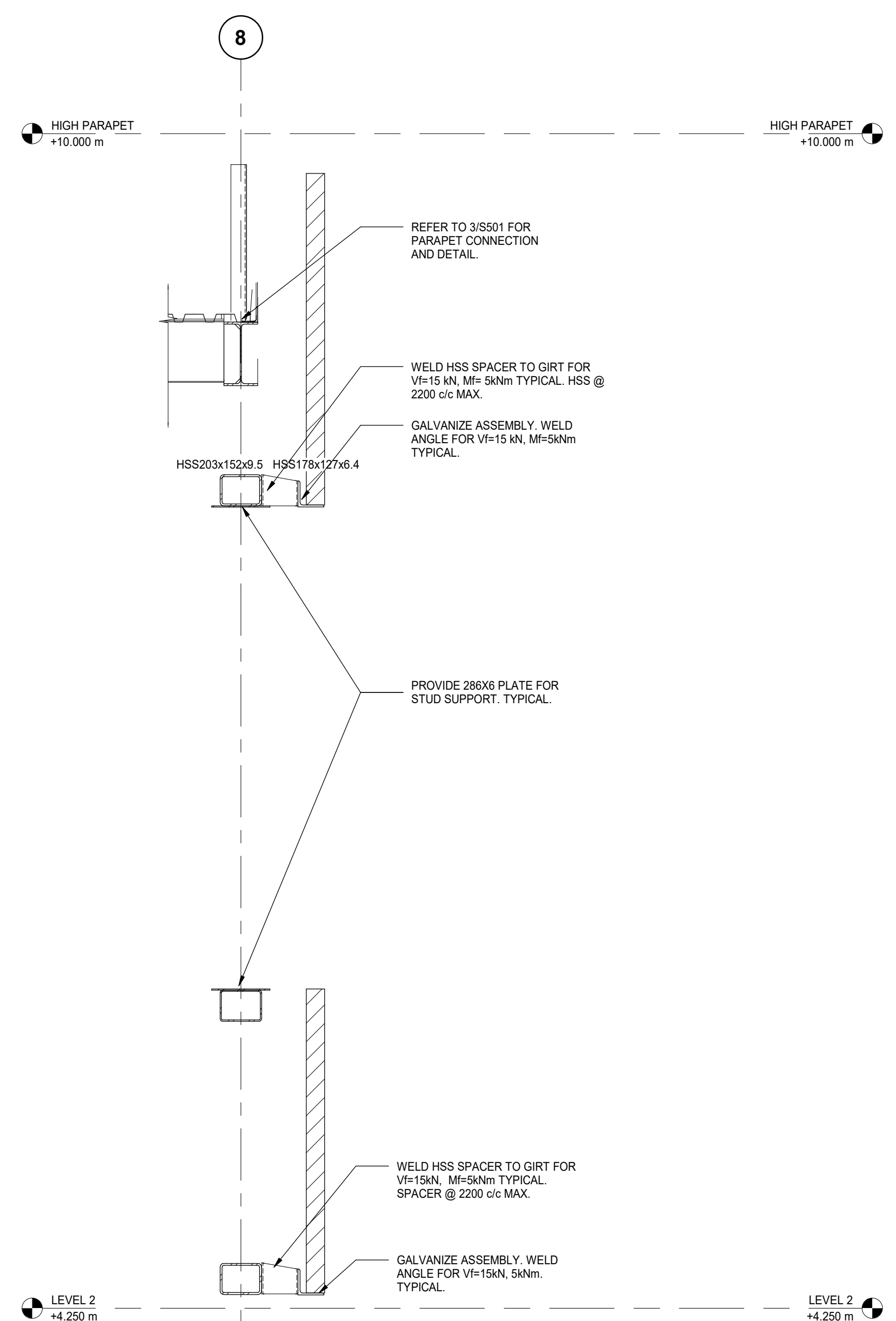
SEAL:

DRAWN: DM	CHECKED: IFM
SCALE: 1 : 20	PROJECT NUMBER: 210112

SHEET TITLE:
DETAILED SECTIONS

S500





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

Do not scale this drawing.

ISSUE:
ISSUED FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
10	2022/07/15	ISSUED FOR CONSTRUCTION
9	2022/05/30	ISSUED FOR STEEL RESTRUCTURING
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

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TORONTO, ONTARIO, M2N 6N5
TEL 416-467-8151

PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN:
DM

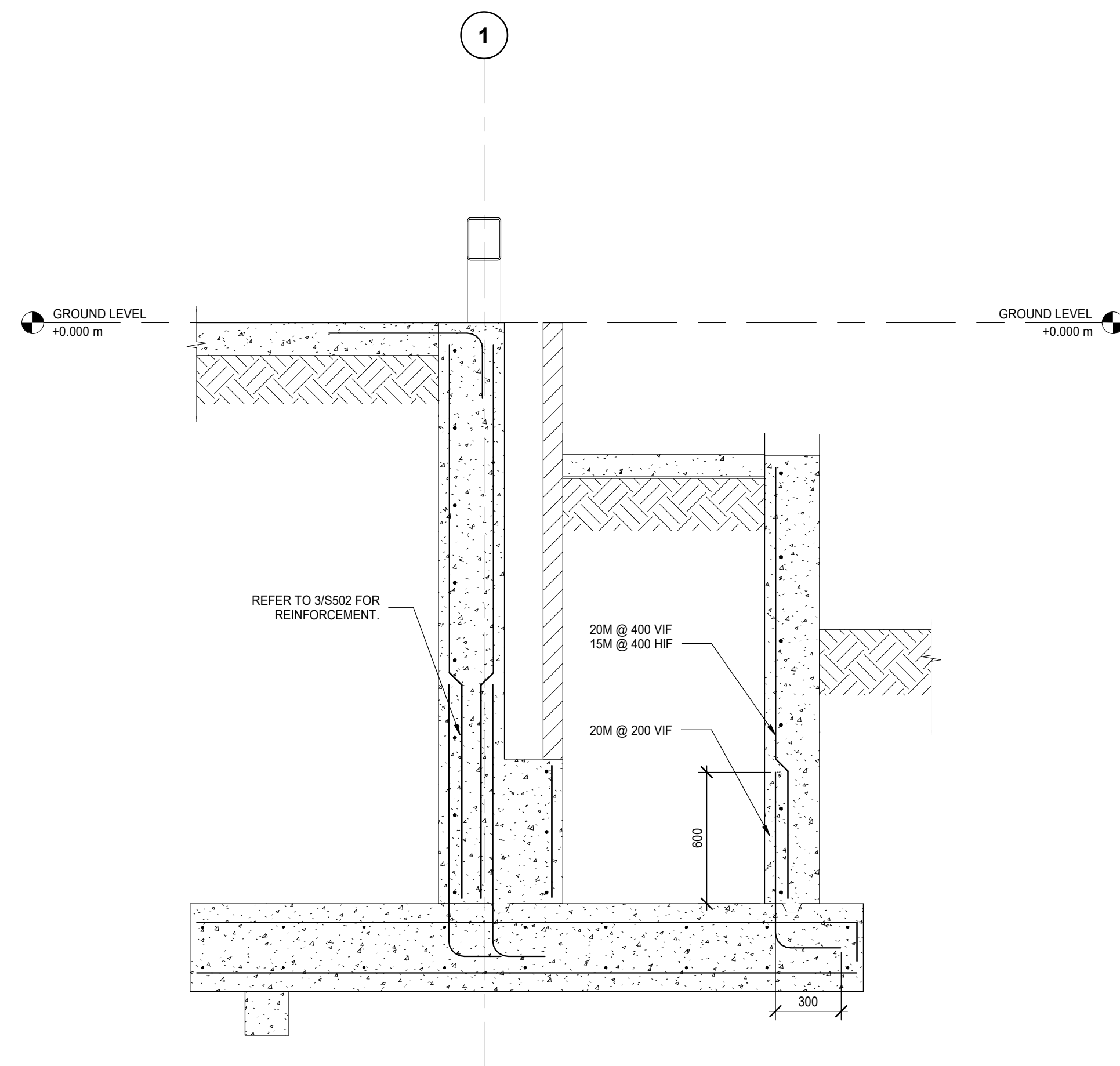
CHECKED:
IFM

SCALE:
1 : 20

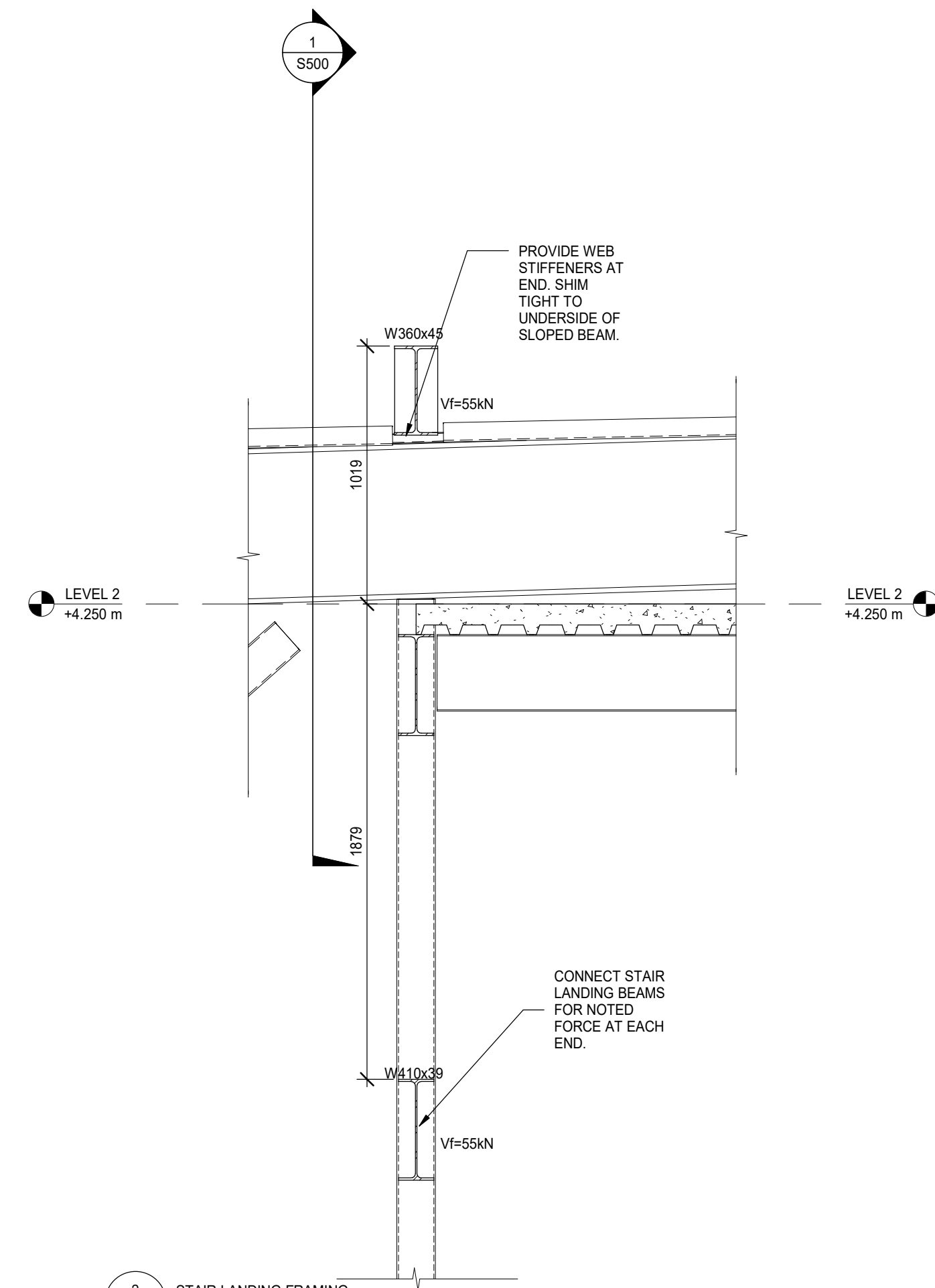
PROJECT NUMBER:
210112

SHEET TITLE:
DETAILED SECTIONS

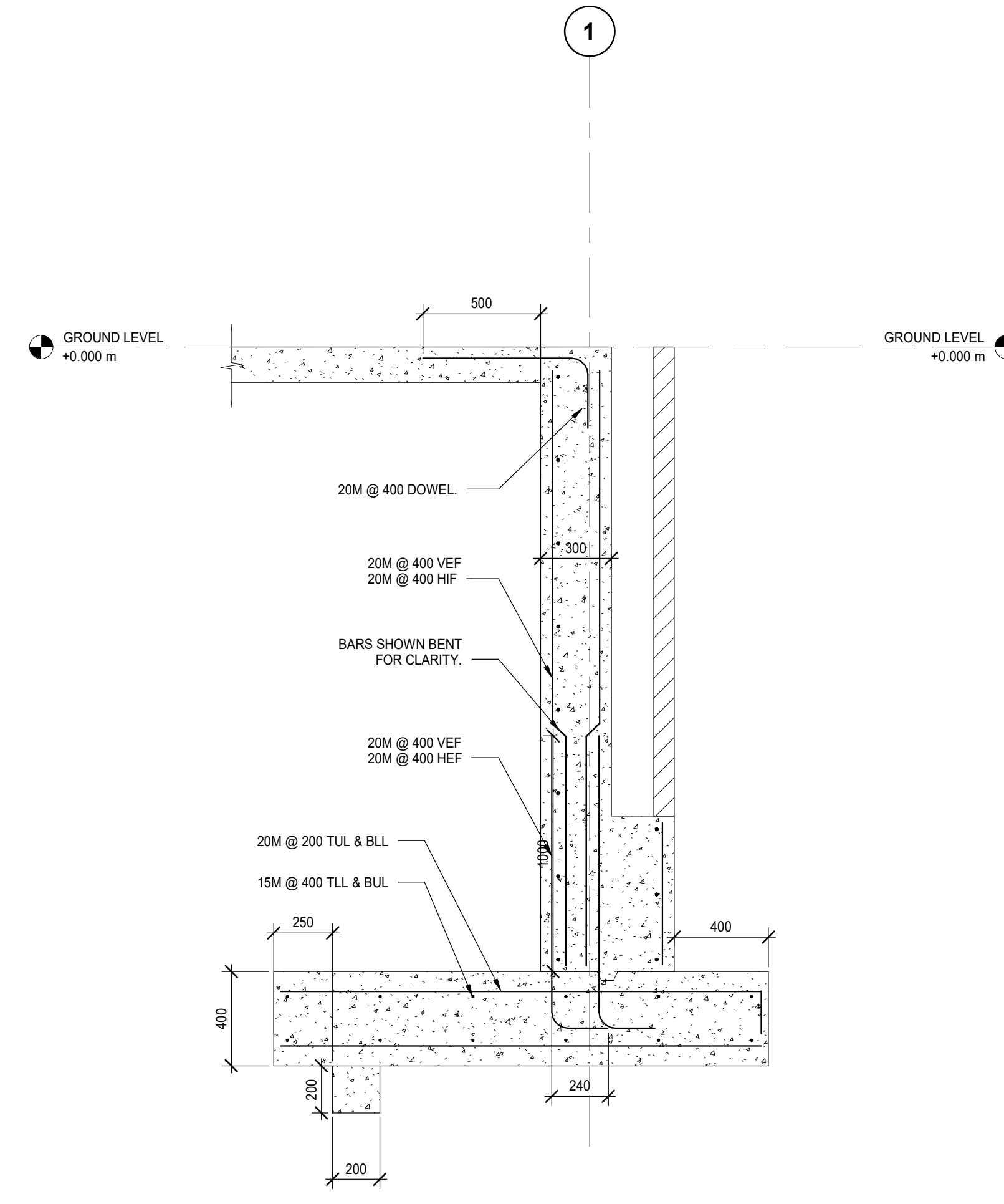
S501



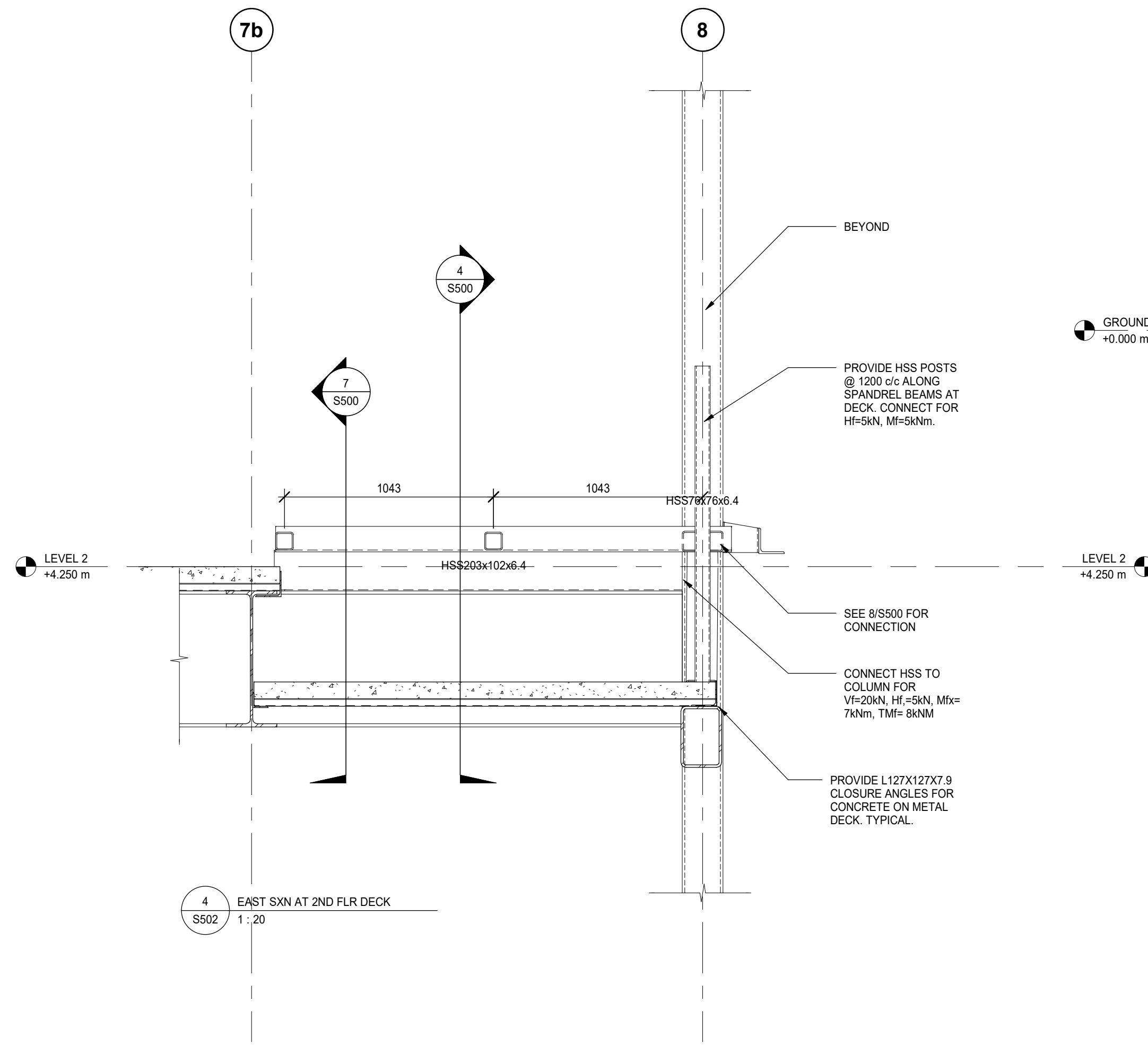
1 RETAINING WALLS AT RAMP
S502 1:20



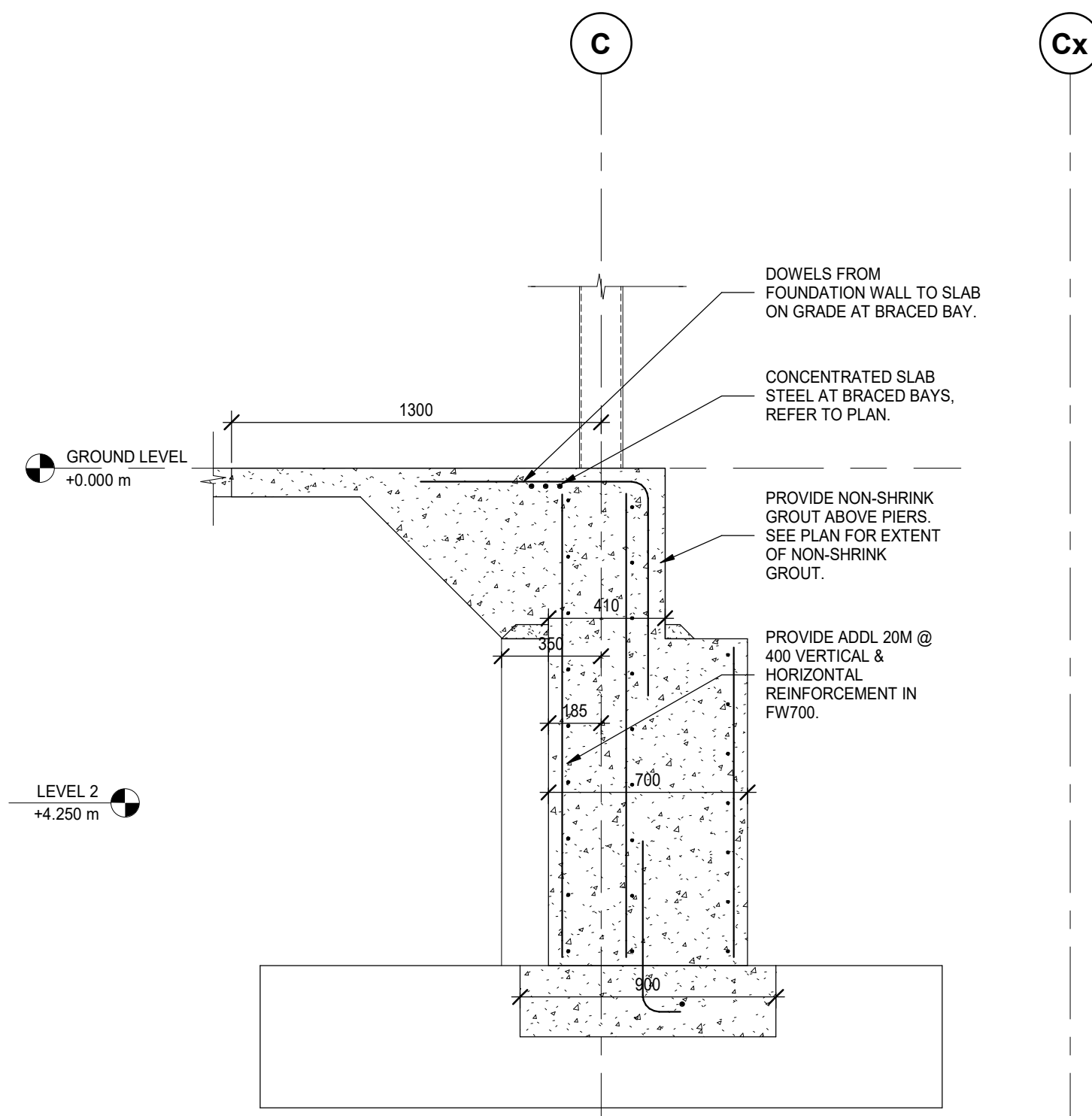
2 STAIR LANDING FRAMING
S502 1:20



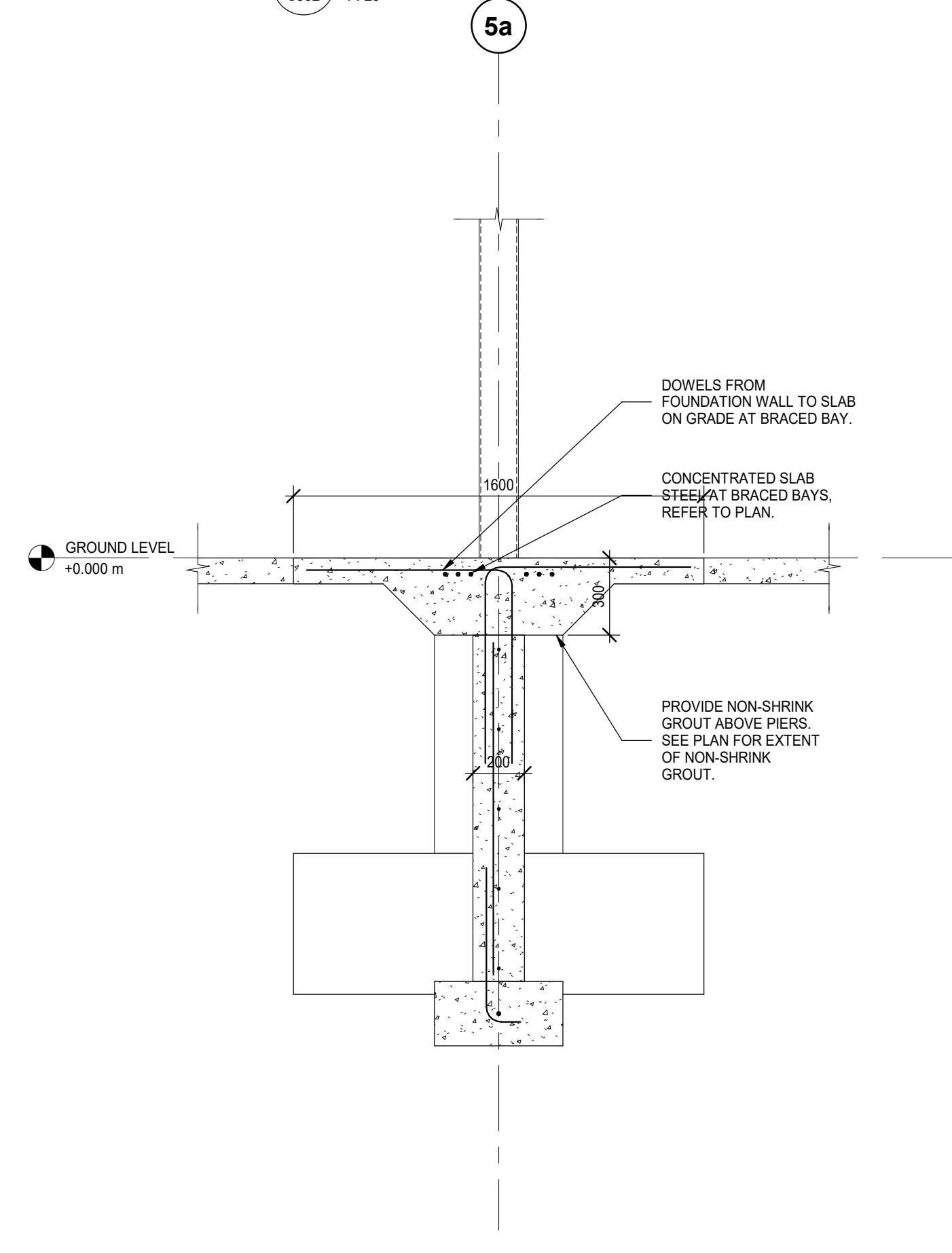
3 RETAINING WALL
S502 1:20



4 EAST SXN AT 2ND FLR DECK
S502 1:20



5 GL C BRACED BAY WALL SECT
S502 1:20



6 INTERIOR BRACED BAY WALL SECT.
S502 1:20

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4	2021/08/30	ISSUED FOR TENDER

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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

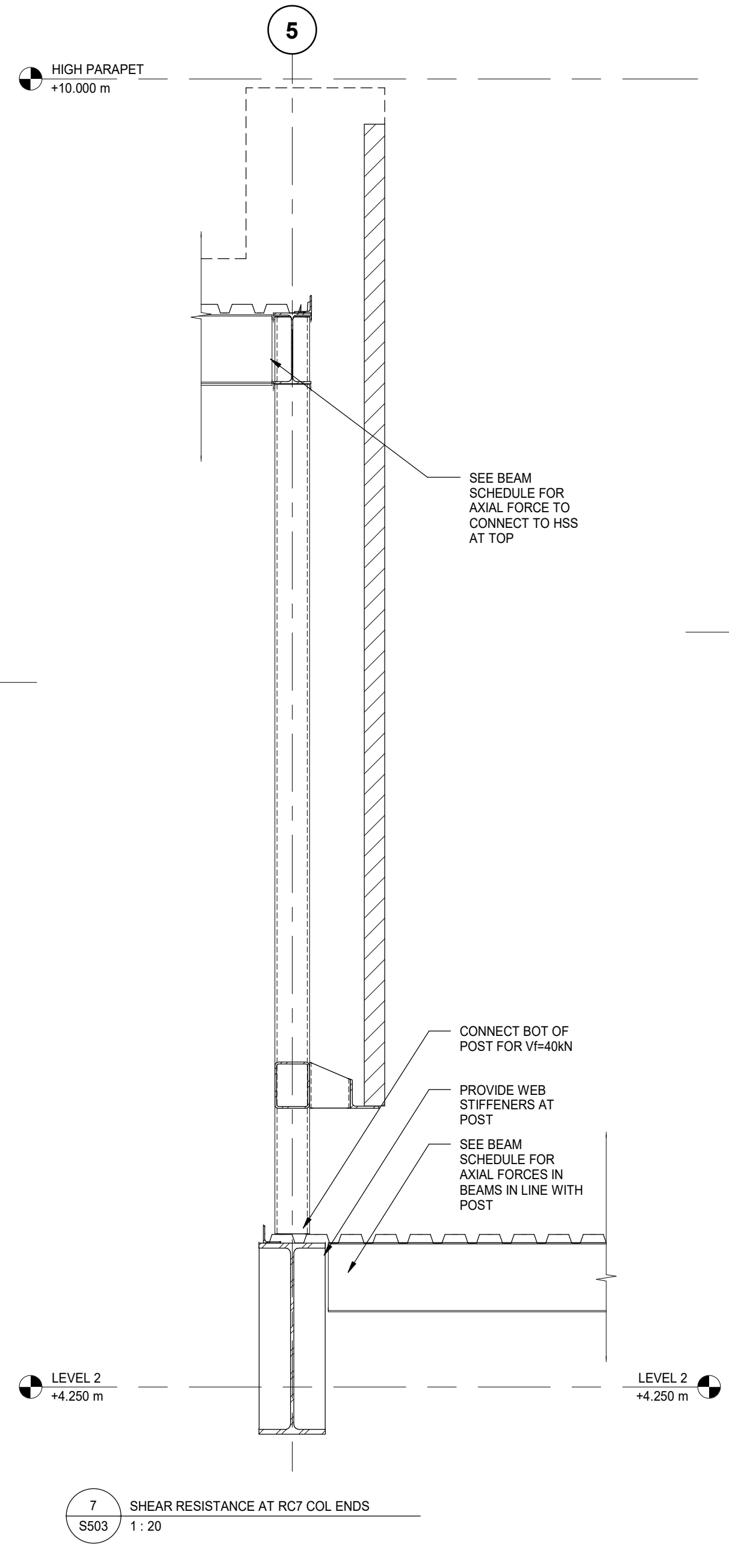
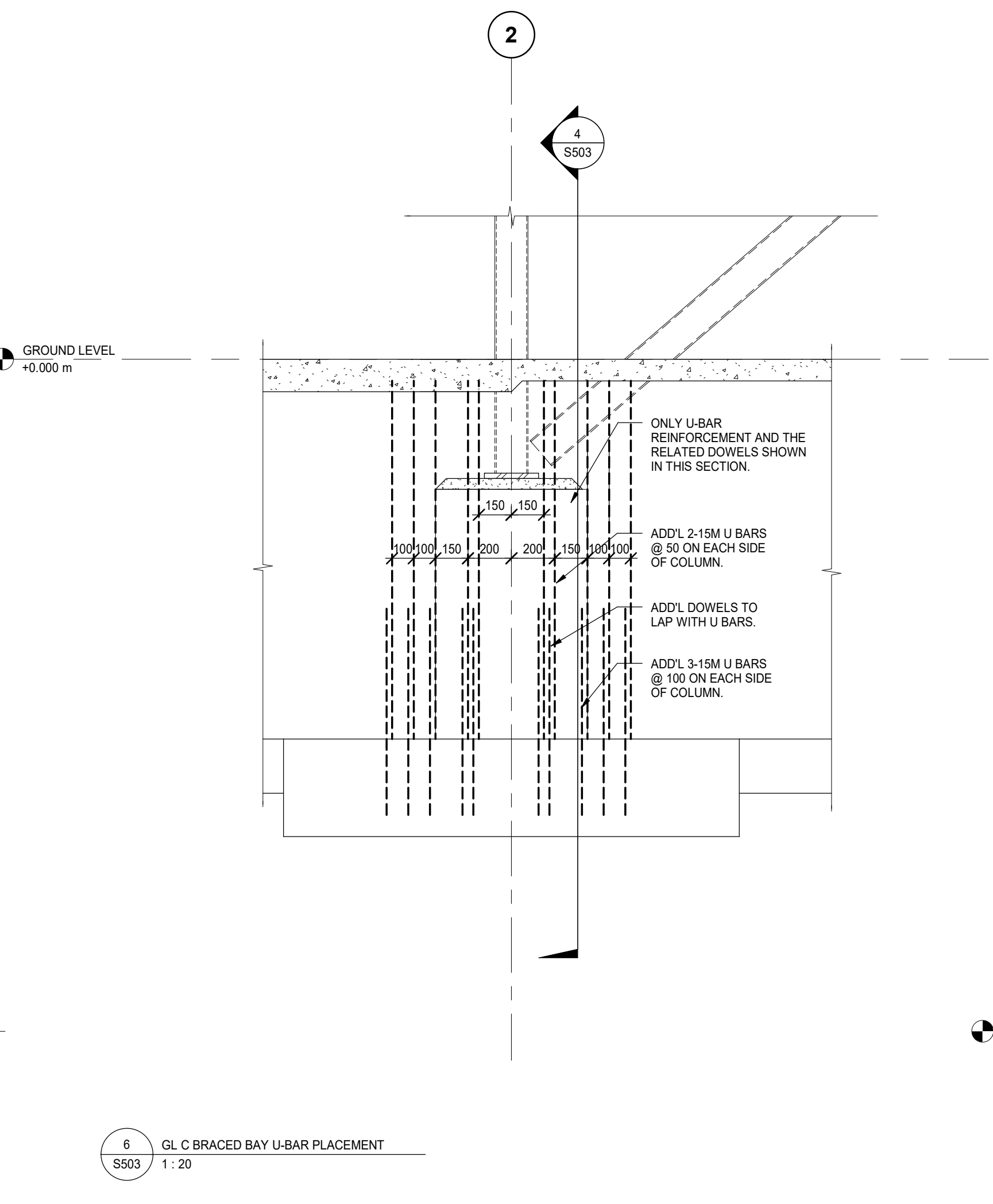
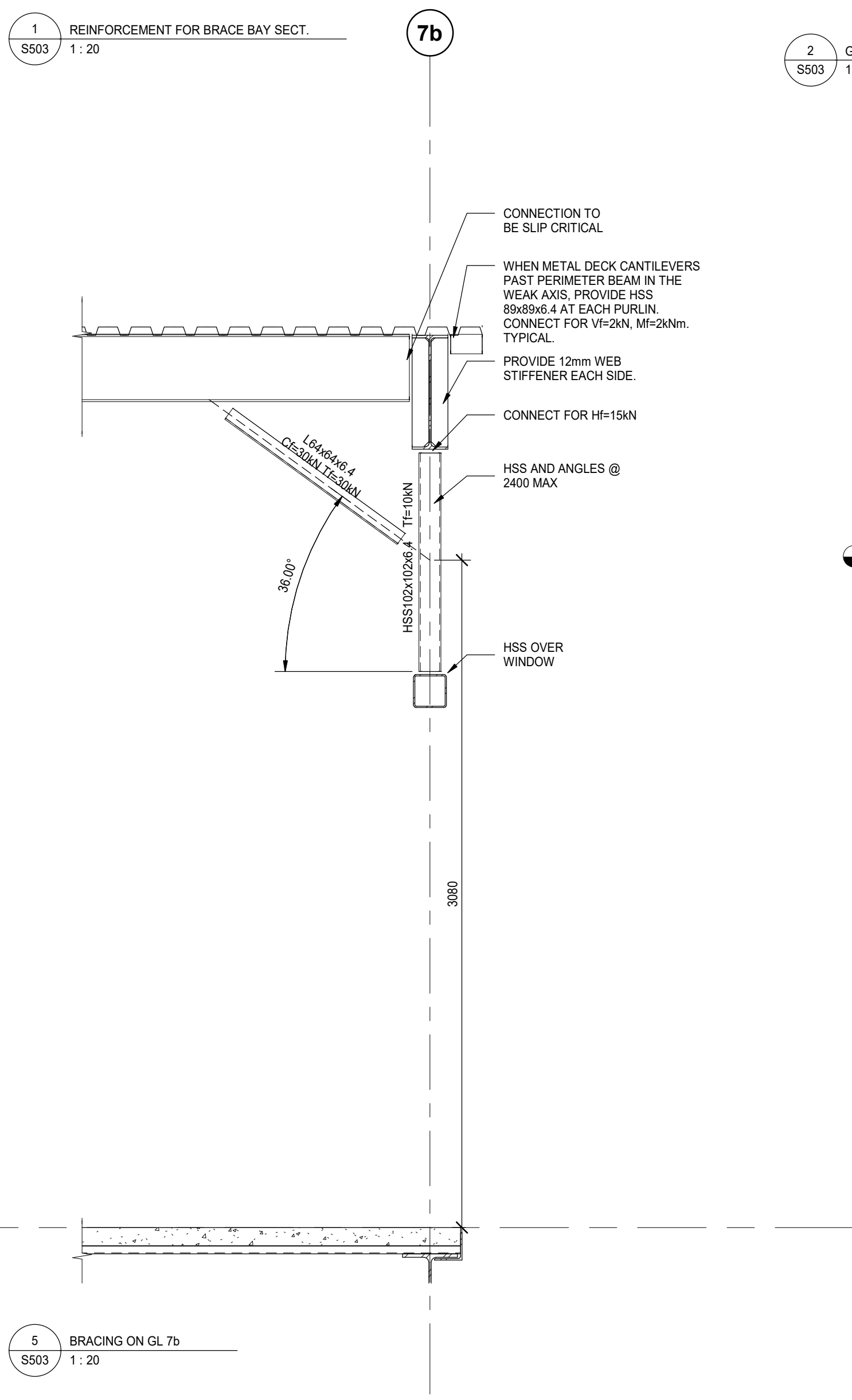
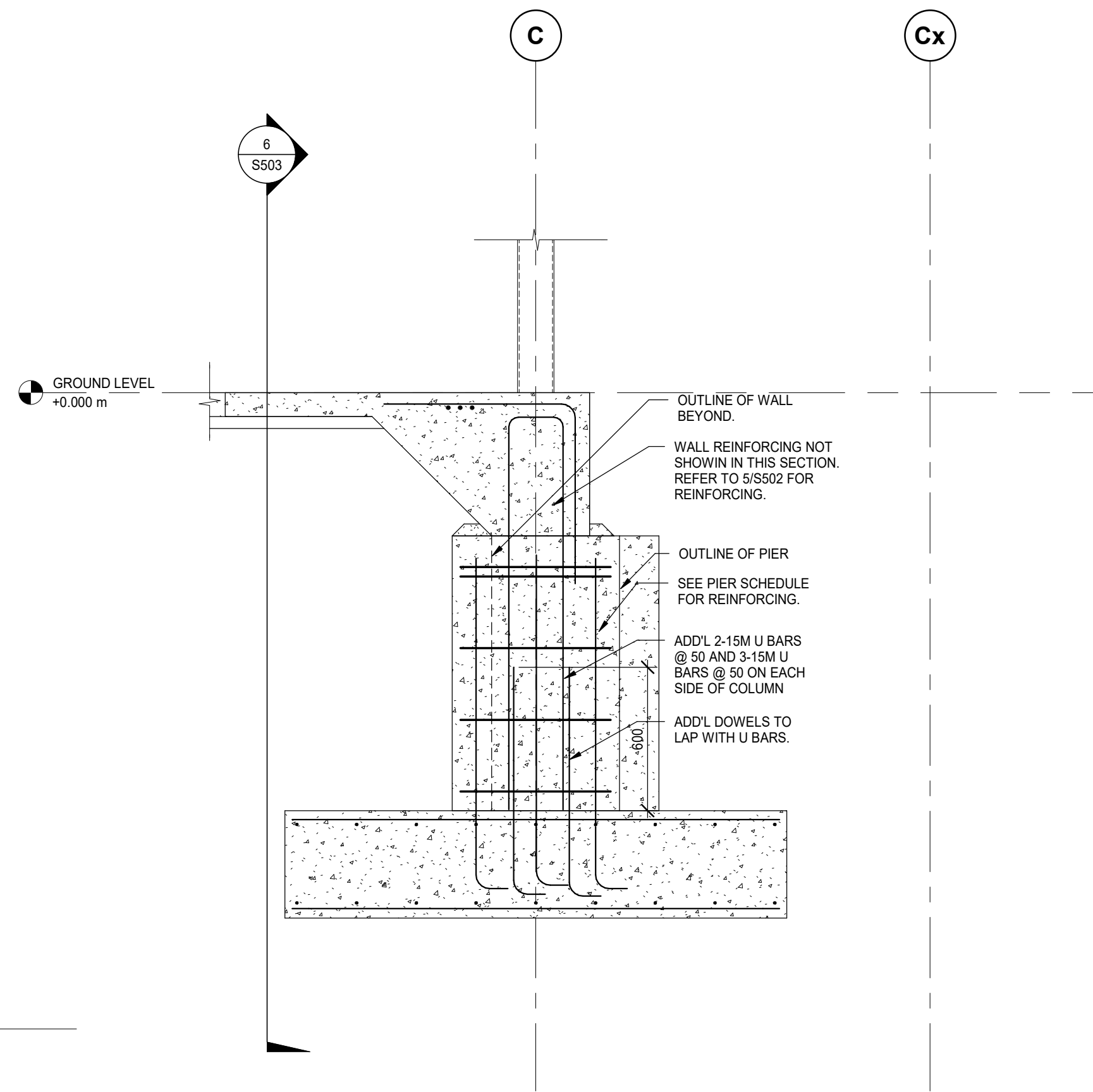
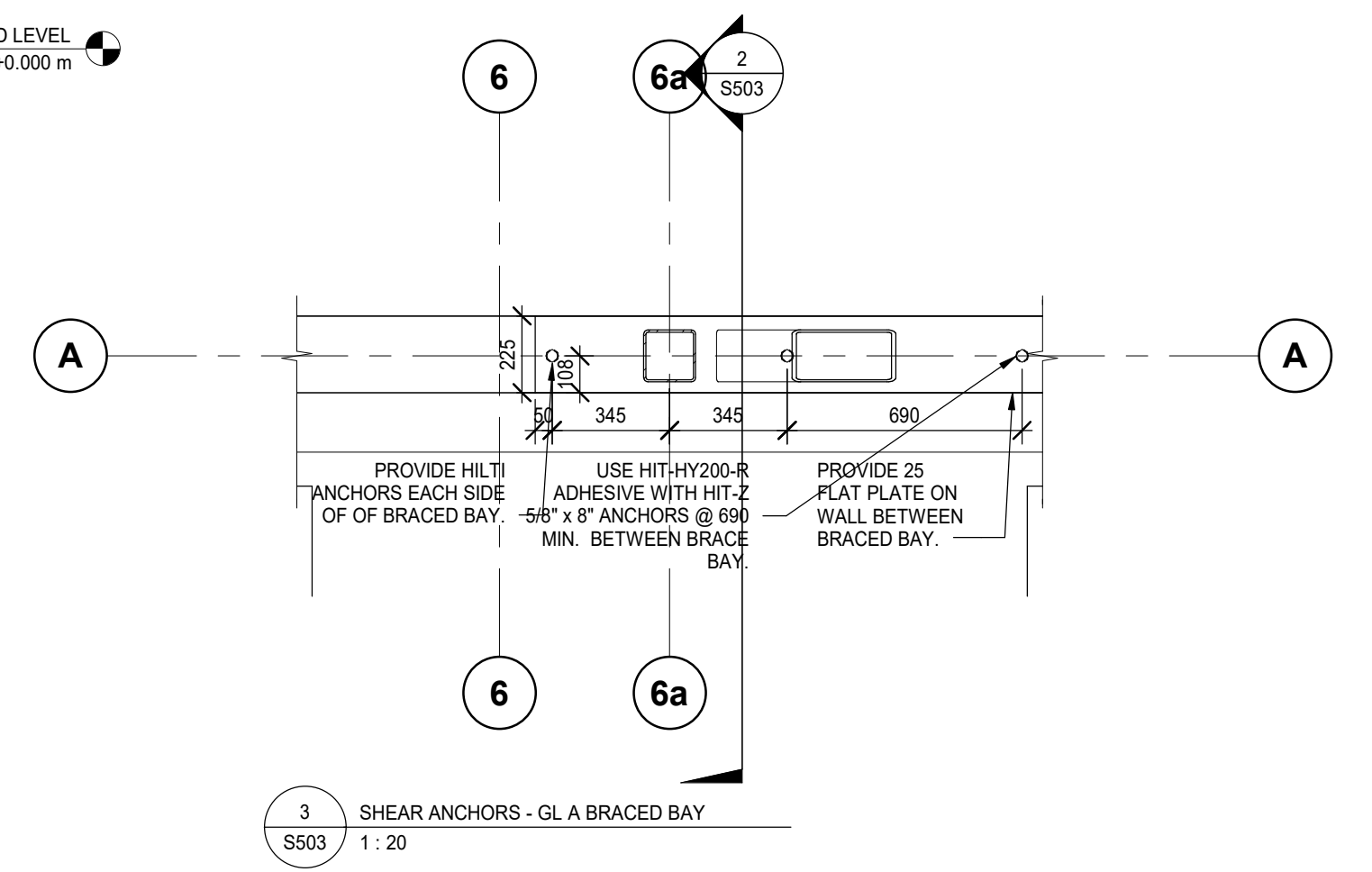
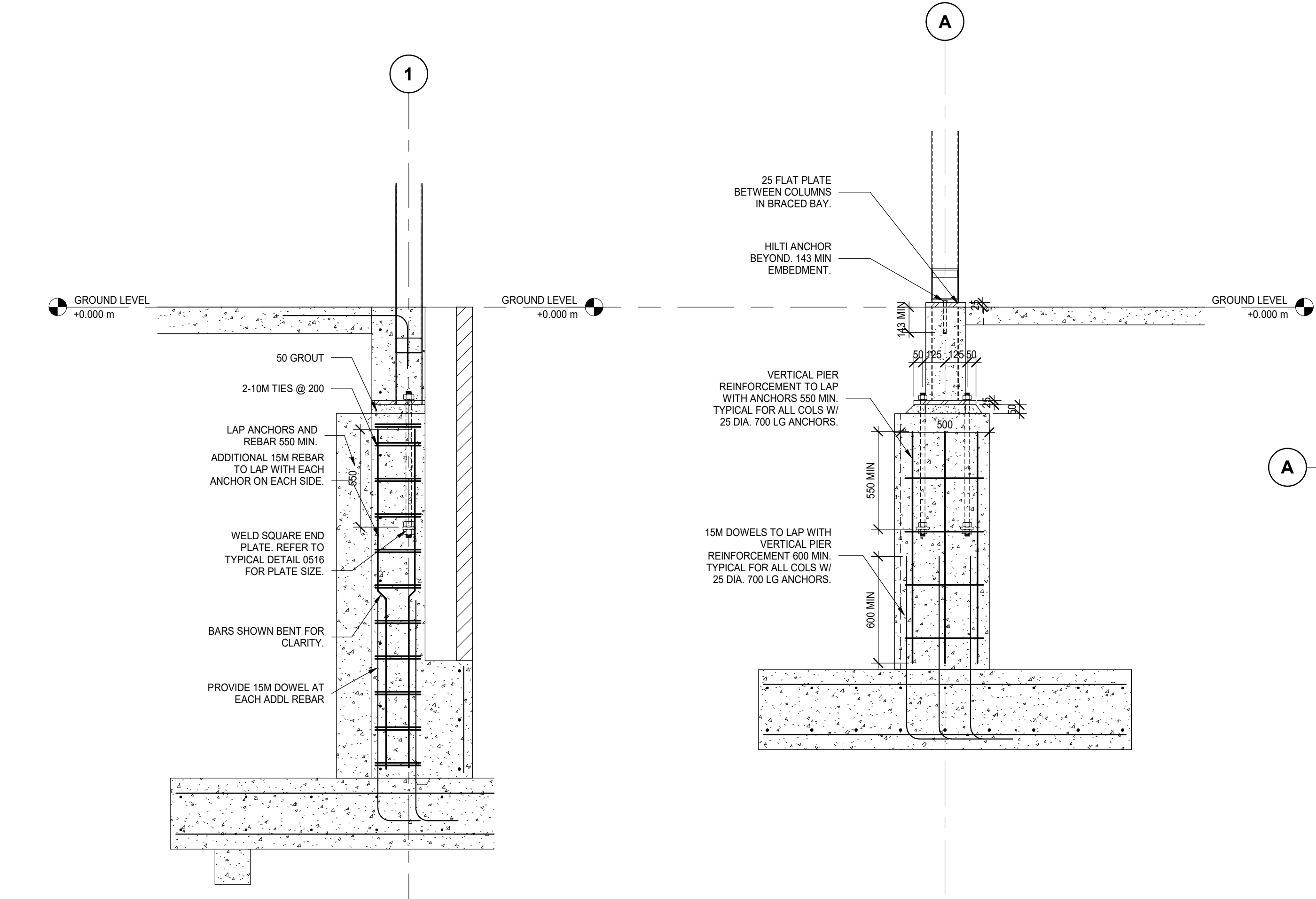
PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN: DM	CHECKED: IFM
SCALE: 1 : 20	PROJECT NUMBER: 210112

SHEET TITLE:
DETAILED SECTIONS

S502



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TEL 416-467-8151

PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN:
DM

CHECKED:
IFM

SCALE:
As indicated

PROJECT NUMBER:
210112

SHEET TITLE:
DETAILED SECTIONS

S503

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)		PIPE GUIDE
	GLOBE VALVE		PIPE SLEEVE
	BALL VALVE		ANCHOR
	LOCKSHIELD VALVE		STRAINER
	FLOW BALANCING VALVE		UNION
	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
	PLUG VALVE		ECCENTRIC FITTING
	PRESSURE REDUCING VALVE		CONCENTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
	SOLENOID VALVE		THERMOMETER
	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
	FLOW METERING STATION		THERMOMETER WELL
	BACKFLOW PREVENTOR		EXPANSION JOINT
	ANGLE VALVE		MANUAL AIR VENT
	BUTTERFLY VALVE		AUTOMATIC AIR VENT
	2-WAY BUTTERFLY VALVE		AIR SEPARATOR
	TEMPERED MIXING VALVE		SIGHT GLASS
	FLEXIBLE JOINT		PUMP
	VACUUM BREAKER		P.R.V. C/W SHUT-OFF VALVE
	BACK WATER VALVE		WATER HAMMER ARRESTOR

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

7 VALVES AND APPURTENANCES (MSD-012.06)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE LINE		PENDANT SPRINKLER HEAD
	FLOW SWITCH		DRY PENDANT SPRINKLER HEAD
	SUPERVISED VALVE		UPRIGHT SPRINKLER HEAD
	FIRE VALVE		CONCEALED SPRINKLER HEAD
	FIRE STANDPIPE		NON-FREEZE SPRINKLER HEAD
	DELUGE SYSTEM VALVE		HIGH TEMPERATURE SPRINKLER HEAD
	WET PIPE VALVE		CHEMICAL SPRINKLER HEAD
	DRY SYSTEM VALVE		SIDEWALL SPRINKLER HEAD
	PREACTION SYSTEM VALVE		WINDOW SPRINKLER HEAD
	FIRE HYDRANT		SEMI RECESSED SPRINKLER HEAD
	FIRE GONG		
	FIRE DEPARTMENT CONNECTION		
	WET SPRINKLER LINE		
	DRY SPRINKLER LINE		
	WET FIRE LINE		
	DRY FIRE LINE		
	FIRE HOSE CABINET AND TYPE		FIRE VALVE CABINET AND TYPE
	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE		
	FIRE EXTINGUISHER AND TYPE		
	FIRE EXTINGUISHER CABINET AND TYPE		FIRE REEL AND TYPE

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

8 FIRE PROTECTION (MSD-012.07)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FIXTURES: (REFER TO SPECIFICATION FOR DETAILS AND ADDITIONAL TYPES NOT LISTED BELOW)			
	WATER CLOSET		BATHTUB
	URINAL		SHOWER
	COUNTERTOP LAVATORY		DRINKING FOUNTAIN
	WALL HUNG LAVATORY		EMERGENCY EYEWASH
	SINGLE COMPARTMENT SINK		EMERGENCY EYEWASH/SHOWER
	JANITOR SINK		EMERGENCY SHOWER
	DOUBLE COMPARTMENT SINK		FLUSH TANK
	DOMESTIC COLD WATER (DOM. COLD WATER) (D.C.W.)		
	BURIED DOMESTIC COLD WATER (DOM. COLD WATER) (D.C.W.)		
	DOMESTIC HOT WATER (DOM. HOT WATER) (D.H.W.)		
	DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (D.H.W.R.)		
	TEMPERED WATER		HOSE BIBB
	NON-POTABLE WATER		WALL HYDRANT (OR NON FREEZE WALL HYDRANT)
	WATER METER		GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)
	TEMPERED MIXING VALVE ASSEMBLY		NON FREEZE POST HYDRANT
	TEMPERED MIXING VALVE CABINET		HOT AND COLD HOSE BIBB

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

5 PLUMBING SYMBOLS AND ABBREVIATIONS (MSD-012.04)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DISTILLED WATER (D.W.)		COMPRESSED AIR
	DEMINERALIZED WATER (D.E.W.)		VACUUM
	REVERSE OSMOSIS VALVE		NON-POTABLE COLD WATER
	REVERSE OSMOSIS LINE		CHILLED DRINKING WATER
	MEDICAL GAS SHUT-OFF VALVE		ACID RESISTANT VENT
	RECESSED WALL OUTLET		ACID RESISTANT DRAINAGE ABOVE GRADE
	MEDICAL OXYGEN ABOVE GRADE		ACID RESISTANT DRAINAGE BELOW GRADE
	MEDICAL OXYGEN BELOW GRADE		ACID RESISTANT CLEANOUT
	MEDICAL AIR		ACID RESISTANT FLOOR DRAIN
	MEDICAL NITROUS OXIDE		ACID RESISTANT MANHOLE
	MEDICAL CARBON DIOXIDE		ANAESTHETIC GAS SCAVENGING SYSTEM
	MEDICAL NITROGEN		LABORATORY VACUUM
	MEDICAL HELIUM		LABORATORY AIR
	MEDICAL VACUUM		LABORATORY GAS
	HOSPITAL (MEDICAL) GRADE AIR		DENTAL AIR
	CHLORINE LINE		DENTAL VACUUM
	CHLORINE VENT		MURIATIC ACID LINE
	LIQUID NITROGEN		MURIATIC ACID VENT
	GAS OUTLET COUNTS ON HEADWALL/MEDICAL SERVICE UNIT. UP TO 7 GASSES AS APPLICABLE. FROM LEFT TO RIGHT WHEN FACING OUTLETS: O2, MA, N2O, CO2, N2, AGSS, MV		MEDICAL GAS ZONE VALVE AND AREA ALARM PANEL. UP TO 7 GASSES AS APPLICABLE: O2, MA, N2O, CO2, N2, AGSS, MV

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

6 PLUMBING PIPING (MSD-012.05)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CONTROL FLOW ROOF DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		CONTROL FLOW ROOF DRAIN FROM ABOVE
	ROOF DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		ROOF DRAIN FROM ABOVE
DRAIN: (REFER TO SPECIFICATION FOR DETAILS AND ADDITIONAL TYPES NOT LISTED BELOW)			
	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		FLOOR DRAIN FROM ABOVE WITH TRAP
	FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP
	HUB DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		HUB DRAIN FROM ABOVE WITH TRAP
	PROMENADE DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		PLANTER DRAIN FROM ABOVE WITH TRAP
	PLENUM FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		PLENUM FLOOR DRAIN FROM ABOVE WITH TRAP
	CORNER SCUPPER DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		
	WALL SCUPPER DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		
	MAINTENANCE HOLE		
	MAINTENANCE HOLE CATCH BASIN		
	CATCH BASIN		
	CIRCULAR EXTERIOR AREA DRAIN		
	SQUARE EXTERIOR AREA DRAIN		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

3 SANITARY AND STORM SYMBOLS AND ABBREVIATIONS (MSD-012.02)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	VENT		HORIZONTAL CLEANOUT ABOVE GRADE
	SANITARY ABOVE GRADE OR FLOOR		HORIZONTAL CLEANOUT BELOW GRADE
	SANITARY BELOW GRADE OR FLOOR		GREASE INTERCEPTOR ABOVE GRADE
	STORM ABOVE GRADE OR FLOOR		GREASE INTERCEPTOR BELOW GRADE
	STORM BELOW GRADE OR FLOOR		INDIRECT DRAIN (CONDENSATE, ETC.)
	PUMP STORM DISCHARGE		
	PUMP SANITARY DISCHARGE		RUNNING TRAP ABOVE GRADE OR FLOOR
	GROUND WATER WEEPING TILE (SOLID PIPE)		RUNNING TRAP BELOW GRADE OR FLOOR
	GROUND WATER BELOW WEEPING TILE (PERFORATED - DASH PIPE)		UPTURNED CLEANOUT
	CLEANOUT IN RISER		HORIZONTAL CLEANOUT
	BACKWATER VALVE		
	STACK VENT		VENT STACK
	RAIN WATER LEADER		WASTE STACK
	SANITARY STACK		STAINLESS STEEL
	BACKWATER VALVE		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

4 SANITARY AND STORM SYMBOLS AND ABBREVIATIONS (MSD-012.03)

MECHANICAL DRAWING LIST		
Sheet Number	Sheet Title	Scale
GENERAL		
M000	DRAWING LIST AND LEGEND	N.T.S.
M001	MECHANICAL STANDARD DETAILS	N.T.S.
M002	MECHANICAL STANDARD DETAILS	N.T.S.
M003	MECHANICAL STANDARD DETAILS	1:100
M004	MECHANICAL STANDARD DETAILS	1:100
M005	MECHANICAL STANDARD DETAILS	1:100
SITE PLAN		
M100	SITE PLAN MECHANICAL	1:200
SCHEMATICS AND DIAGRAMS		
M200	MECHANICAL SCHEMATICS	N.T.S.
M201	PLUMBING SCHEMATICS	N.T.S.
PLUMBING AND DRAINAGE		
M300	FOUNDATION PLAN PLUMBING AND DRAINAGE	1:100
M301	GROUND FLOOR PLAN PLUMBING AND DRAINAGE	1:100
M302	SECOND FLOOR PLAN PLUMBING AND DRAINAGE	1:100
M303	ROOF PLAN PLUMBING AND DRAINAGE	1:100
H.V.A.C.		
M401	GROUND FLOOR PLAN HVAC	1:100
M402	SECOND FLOOR PLAN HVAC	1:100
M403		
KITCHEN LAYOUT		
M501	GROUND FLOOR PLAN KITCHEN PLUMBING AND DRAINAGE	1:50
M502	GROUND FLOOR PLAN KITCHEN HVAC	1:50

1 MECHANICAL DRAWING LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
	R.O.		N.O. NORMALLY OPEN
	R.I.C.		N.C. NORMALLY CLOSED
	A/D		S.S. STAINLESS STEEL
	U/C		
	PIPING SERVICE CONTINUES		ELBOWS
	REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED		TEE
	EQUIPMENT/PIPING/DUCTWORK SHOWN DASHED BELOW		BRANCH OFF BOTTOM OF MAIN
	PIPING INTERSECTS PIPING BELOW		BRANCH OFF TOP OF MAIN
	PIPE DROP OR FROM BELOW		DIRECTION OF FLOW
	PIPE UP OR FROM ABOVE		CONNECT TO EXISTING
	CAPPED CONNECTION		CONNECT TO EXISTING
	THRUST BLOCK		
	GAS METER		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 GENERAL AND SITE PLAN SYMBOLS AND ABBREVIATIONS (MSD-012.01)

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REVISIONS AND ISSUES			
REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021.08.25	
2	ISSUED FOR PERMIT	2021.09.09	
3	RE-ISSUED FOR TENDER AND PERMIT	2022.01.31	
4	ISSUED FOR CONSTRUCTION	2022.07.15	
5			
6			
7			
8			

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maclennan jaunkains miller architects
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416 487 8151 f 416 487 9104 www.smithanderson.com

SAYERS FOOD LIMITED

132 BURLINGHAM STREET
T: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY**

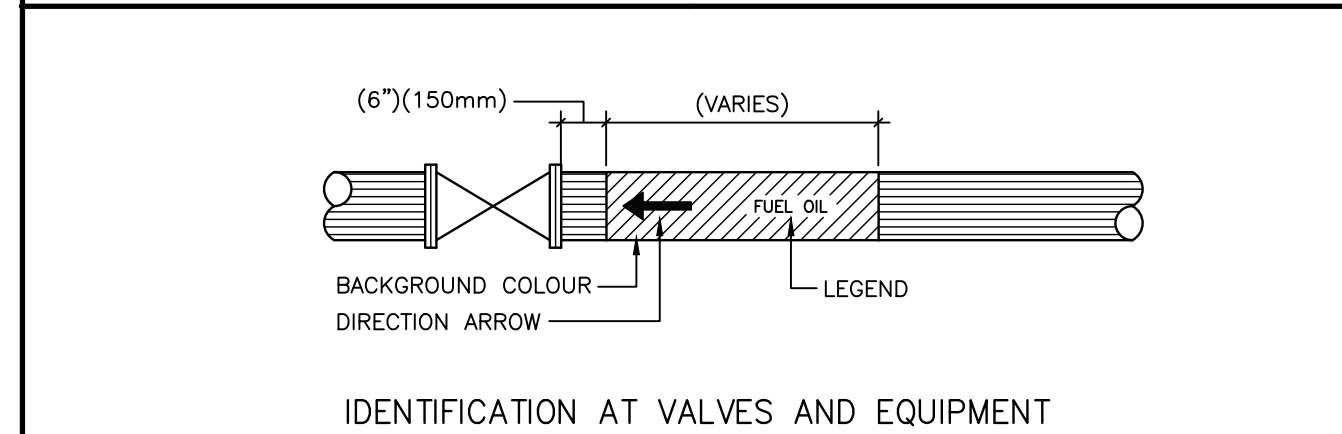
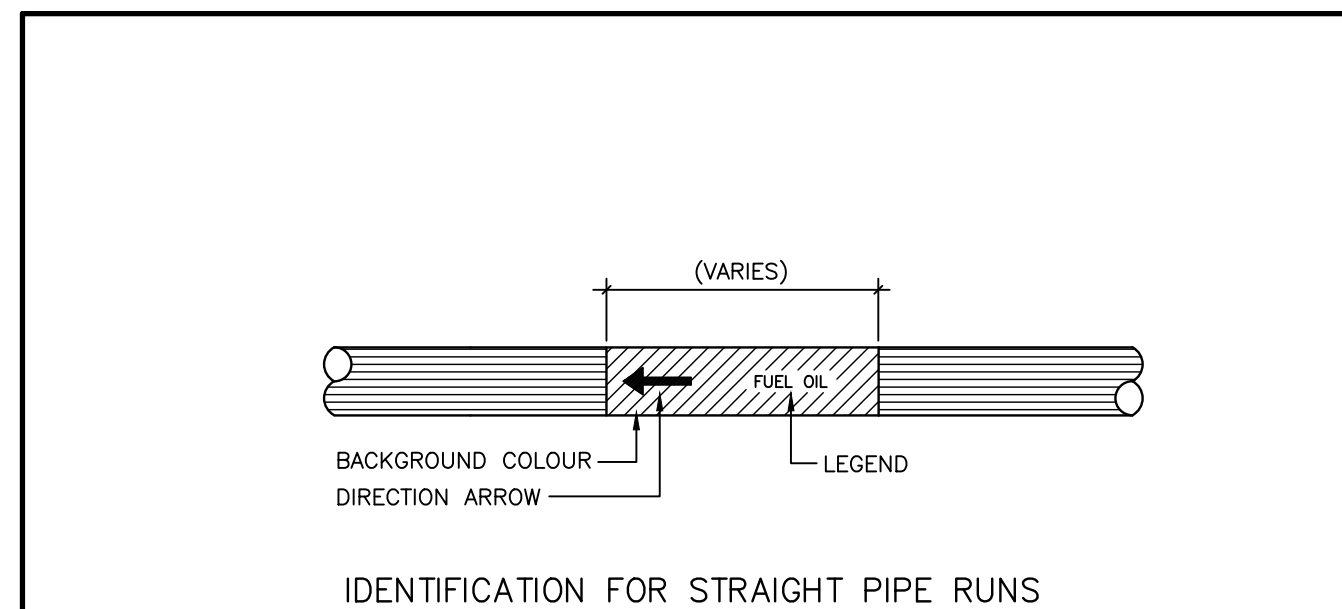
DRAWING TITLE
DRAWING LIST AND LEGEND

SCALE
N.T.S.
DATE
JUNE 16, 2021

PROJECT NUMBER
21376

DRAWING NUMBER

M000



MATERIAL CLASSIFICATION	BACKGROUND COLOUR
HAZARDOUS	YELLOW, 505-101
INHERENTLY LOW HAZARD	GREEN, 505-107
FIRE PROTECTION	RED, 509-102
MATERIAL CLASSIFICATION	LEGEND COLOUR
HAZARDOUS	BLACK, 512-101
INHERENTLY LOW HAZARD	WHITE, 513-101
FIRE PROTECTIONS	WHITE, 513-101

7 M001 PIPE IDENTIFICATION (MSD-058.01)

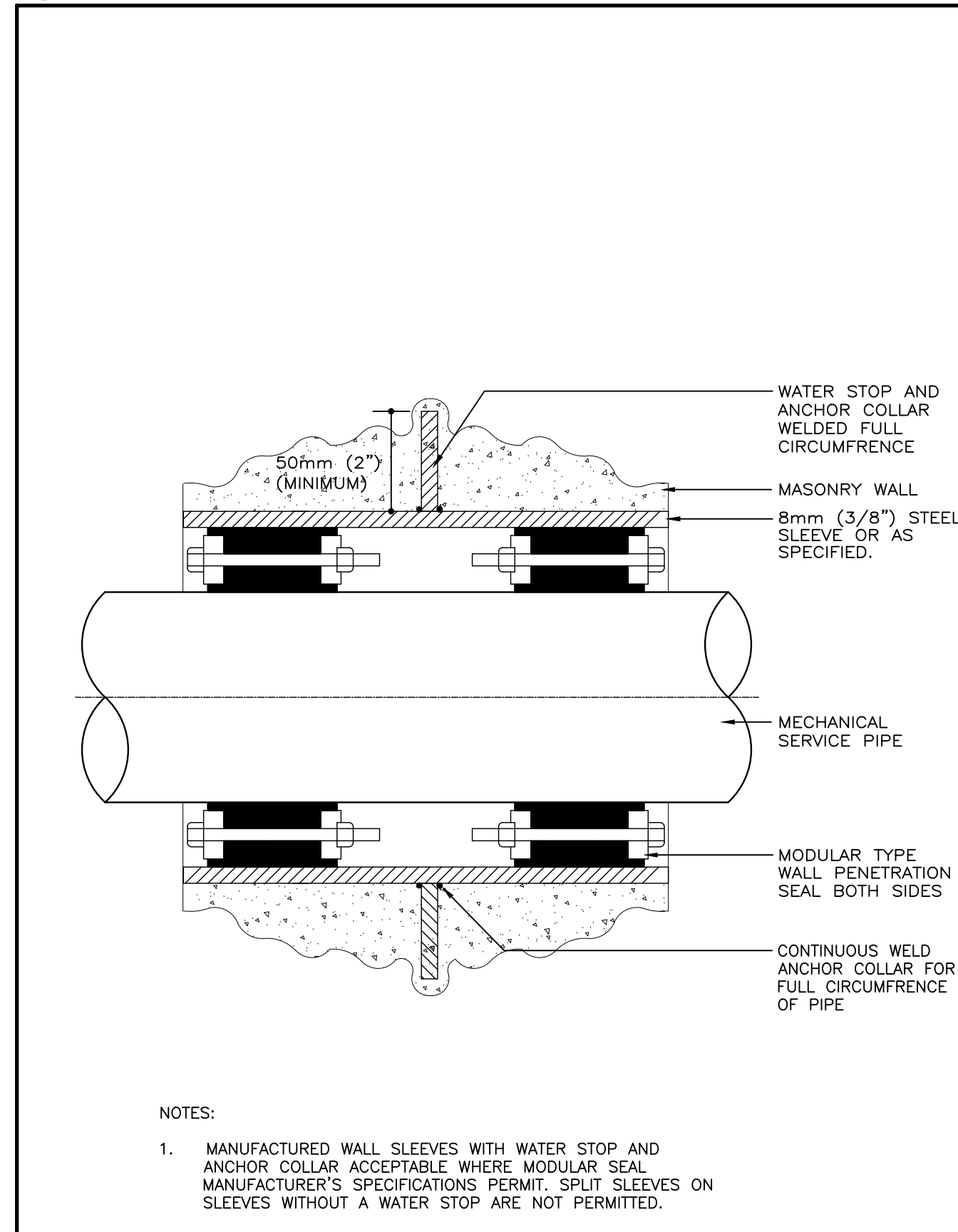
PIPE MARKER LEGEND	VALVE TAG LEGEND	BACKGROUND COLOUR	LEGEND COLOUR
DOMESTIC COLD WATER	DCW	GREEN	WHITE
DISTILLED WATER	DI.W.	GREEN	WHITE
DEMINERALIZED WATER	DE.W.	GREEN	WHITE
CONDENSER WATER SUPPLY	CS	GREEN	WHITE
CONDENSER WATER RETURN	CR	GREEN	WHITE
CHILLED WATER SUPPLY	CHS	GREEN	WHITE
CHILLED WATER RETURN	CHR	GREEN	WHITE
CHILLED DRINKING WATER	CDW	GREEN	WHITE
DOMESTIC HOT WATER	DHW	GREEN	WHITE
DOMESTIC HOT WATER RECIRCULATION	DHWR	GREEN	WHITE
HOT WATER HEATING SUPPLY UP TO 250°F (120°C)	HWS	YELLOW	BLACK
HOT WATER HEATING RETURN UP TO 250°F (120°C)	HWR	YELLOW	BLACK
HIGH TEMPERATURE WATER SUPPLY ABOVE 250°F (120°C)	HTWS	YELLOW	BLACK
HIGH TEMPERATURE WATER RETURN ABOVE 250°F (120°C)	HTWR	YELLOW	BLACK
BOILER FEED WATER	BFW	YELLOW	BLACK
STEAM 15 PSI (100 KPA) AND LOWER	S-15	YELLOW	BLACK
STEAM ABOVE 15 PSI (100 KPA)	S-#(PSI)	YELLOW	BLACK
VENT (STEAM, ETC.)		YELLOW	BLACK
NATURAL GAS	N.G.	YELLOW	BLACK
DEIONIZED WATER	D.I.W.	GREEN	WHITE
R.O. WATER	R.O.W.	GREEN	WHITE
NITROGEN	N	BLUE	WHITE

8 M001 PIPE IDENTIFICATION (MSD-058.02)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FC-12-01	EQUIPMENT DESIGNATION FLOOR NUMBER SEQUENTIAL NUMBER	SL-AHU2-01-S01	DESIGNATION EQUIPMENT DESIGNATION SILENCER TAG
UH-01	TYPICAL EQUIPMENT DESIGNATION SEQUENTIAL NUMBER		
AC	SPLIT SYSTEM AIR CONDITIONING UNIT (REFER TO CU BELOW)	RF	RETURN FAN
ACH	AIR CURTAIN HEATER	RP	RADIANT PANEL
AFS	AIR FLOW STATION	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT	SCAC	SELF CONTAINED AIR CONDITIONING UNIT
SL	SILENCERS (TO BE READ IN CONJUNCTION WITH ASSOCIATED AIR HANDLING UNIT)	SF	SUPPLY
B	BOILER	TF	TRANSFER FAN
CH	CHILLER	UH	UNIT HEATER
CRU	COMPUTER ROOM AIR CONDITIONING UNIT	VHP	VERTICAL HEAT PUMP
CT	COOLING TOWER	VFC	VERTICAL FAN COIL
CUH	CABINET UNIT HEATER		
CU	CONDENSING UNIT		
DHWT	DOMESTIC HOT WATER TANK		
DHWH	DOMESTIC HOT WATER HEATER		
EF	EXHAUST FAN		
ET	EXPANSION TANK		
EV	EVAPORATOR		
EW	ENTHALPY WHEEL		
FC	FLUID COOLER		
FCU	FAN COIL UNIT		
FFH	FORCE FLOW HEATER		
HE	HEAT EXCHANGER		
HHP	HORIZONTAL HEAT PUMP		
HU	HUMIDIFIER		
MUA	MAKEUP AIR UNIT		
P-	PUMP (GENERAL)		
P-HTG	HEATING WATER PUMP		
P-CLG	COOLING WATER PUMP		
P-FSP/FIRE	FIRE STANDPIPE PUMP/FIRE PUMP		
P-DW	DOMESTIC WATER PUMP		
P-SAN	SANITARY PUMP		
P-STM	STORM PUMP		
P-SMP	SUMP PUMP		
P-DHWR	DOMESTIC HOT WATER RECIRC PUMP		
P-FO	FUEL OIL PUMP		
P-CHEM	CHEMICAL FEED PUMP		
P-CHW	CHILLED WATER PUMP		
P-CON	CONDENSER WATER PUMP		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

5 M001 MECHANICAL EQUIPMENT NOMENCLATURE CONVENTION (MSD-012.12)



6 M001 PENETRATION THROUGH FOUNDATION WALL (MSD-052.02)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	SUPPLY DUCT UP OR FROM ABOVE	[Symbol]	ACOUSTICALLY LINED TRANSFER AIR DUCT
[Symbol]	SUPPLY DUCT DOWN OR FROM BELOW	[Symbol]	SILENCER
[Symbol]	RETURN OR EXHAUST DUCT UP OR FROM ABOVE	[Symbol]	CROSSTALK SILENCER
[Symbol]	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW	[Symbol]	DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
[Symbol]	ROUND DUCT UP OR FROM ABOVE	[Symbol]	DUCT WITH SLEEVE, INSULATION AND DAMPER
[Symbol]	ROUND DUCT DOWN OR FROM BELOW	[Symbol]	CAPPED CONNECTION
[Symbol]	ACOUSTIC LINED DUCT	[Symbol]	INSULATION DUCT
[Symbol]	FLEXIBLE CONNECTION	[Symbol]	RISE IN DUCT
[Symbol]	SQUARE ELBOW DUCT WITH TURNING VANE	[Symbol]	DROP IN DUCT
[Symbol]	RADIUS ELBOW WITH TURNING VANES	[Symbol]	SOUND Baffle
[Symbol]	AXIAL FAN/INLINE FAN MIXED FLOW OR CENTRIFUG	[Symbol]	PROPELLER FAN WITH PROTECTIVE SCREEN
[Symbol]	DIFFUSER GRILLE OR REGISTER TYPE	[Symbol]	CENTRIFUGAL FAN (ONLY IN SCHEMATIC)
[Symbol]	ROUND SUPPLY DIFFUSER	[Symbol]	LINEAR SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT
[Symbol]	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE	[Symbol]	LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT
[Symbol]	SQUARE OR RECTANGULAR DIFFUSER	[Symbol]	LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT
[Symbol]	NON DUCTED RETURN OR EXHAUST GRILLE	[Symbol]	DUCT MOUNTED SUPPLY OR RETURN GRILLE
[Symbol]	NON DUCTED ROUND RETURN OR EXHAUST GRILLE	[Symbol]	LINEAR SUPPLY OR RETURN GRILLE
[Symbol]	SQUARE PLAQUE DIFFUSER	[Symbol]	SPIN-IN CONNECTION C/W BALANCING DAMPER AND FLEX DUCT
[Symbol]	DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN)	[Symbol]	SPIN-IN CONNECTION C/W BALANCING DAMPER AND RIGID DUCT

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

3 M001 AIR HANDLING SYMBOLS (MSD-012.10)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	POWER REQUIREMENT FOR ELECTRIC TRACING	P.E.	PNEUMATIC-ELECTRIC
[Symbol]	ELECTRIC PIPE DEVICE FOR SINGLE LINE PIPES	[C]	CONTROLLER
[Symbol]	ELECTRIC PIPE DEVICE FOR DOUBLE LINE PIPES	[TS]	TEMPERATURE SENSOR
[Symbol]	M.C.C.	[HS]	HUMIDITY SENSOR
[Symbol]	D.S.	[BAS]	POWER OUTLET FOR B.A.S.
[Symbol]	SWITCH (MANUAL STARTER)	[Symbol]	AIR FLOW MONITORING STATION
[Symbol]	H.O.A.	[S]	STATIC
[Symbol]	FZ	[VFD]	VARIABLE FREQUENCY DRIVE
[Symbol]	FS	[CO]	CARBON MONOXIDE SENSOR
[Symbol]	[T]	[RS]	REFRIGERANT SENSOR
[Symbol]	[T]	[CO2]	CARBON DIOXIDE SENSOR
[Symbol]	[BAS]	[NO2]	NITROGEN OXIDE SENSOR
[Symbol]	[Fa]	[A.F.S.]	AIR FLOW STATION
[Symbol]	[S]	[PS]	PRESSURE SENSOR
[Symbol]	[Symbol]		FLOW MONITORING WATER

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

4 M001 ELECTRICAL AND CONTROLS SYMBOLS AND ABBREVIATIONS (MSD-012.11)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	HEATING WATER SUPPLY	[Symbol]	FUEL OIL SUPPLY
[Symbol]	HEATING WATER RETURN	[Symbol]	FUEL OIL RETURN
[Symbol]	CHILLED WATER SUPPLY	[Symbol]	EMERGENCY FUEL OIL VENT
[Symbol]	CHILLED WATER RETURN	[Symbol]	FUEL OIL VENT
[Symbol]	GLYCOL SUPPLY	[Symbol]	FUEL OIL FILL
[Symbol]	GLYCOL RETURN	[Symbol]	PUMPED STEAM CONDENSATE
[Symbol]	GLYCOL HEATING SUPPLY	[Symbol]	REFRIGERATION SUCTION
[Symbol]	GLYCOL HEATING RETURN	[Symbol]	REFRIGERATION LIQUID
[Symbol]	GLYCOL COOLING SUPPLY	[Symbol]	REFRIGERATION HOT GAS
[Symbol]	GLYCOL COOLING RETURN	[Symbol]	DUAL TEMPERATURE SUPPLY
[Symbol]	CONDENSER WATER SUPPLY	[Symbol]	DUAL TEMPERATURE RETURN
[Symbol]	CONDENSER WATER RETURN	[Symbol]	BUCKET TYPE STEAM TRAP
[Symbol]	LOW PRESSURE STEAM	[Symbol]	FLOAT AND THERMOSTAT TYPE STEAM TRAP
[Symbol]	MEDIUM PRESSURE STEAM	[Symbol]	STEAM VACUUM BREAKER
[Symbol]	HIGH PRESSURE STEAM	[Symbol]	REFRIGERATION THERMAL EXPANSION VALVE
[Symbol]	LOW PRESSURE CONDENSATE	[Symbol]	REFRIGERATION SOLENOID LIQUID VALVE
[Symbol]	MEDIUM PRESSURE CONDENSATE	[Symbol]	REFRIGERATION FILTER DRYER
[Symbol]	HIGH PRESSURE CONDENSATE	[Symbol]	6 WAY CONTROL VALVE ELECTRIC
[Symbol]	2 WAY CONTROL VALVE	[Symbol]	6 WAY CONTROL VALVE TYPE 1
[Symbol]	3 WAY CONTROL VALVE		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 M001 MECHANICAL PIPING (MSD-012.08)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	FIRE DAMPER	[Symbol]	SMOKE DAMPER
[Symbol]	MOTOR OPERATED DAMPER	[Symbol]	POSITIVE SEAL DAMPER
[Symbol]	MANUAL DAMPER	[Symbol]	GRAVITY OR BACKDRAFT DAMPER
[Symbol]	BALANCING DAMPER	[Symbol]	SPLITTER DAMPER
[Symbol]	COMBINATION SMOKE AND FIRE DAMPER	[Symbol]	REMOTE OPERATED BALANCING DAMPER
[Symbol]	VOLUME EXTRACTOR		
V.A.V. AND F.P.V.A.V. TAG			
[Symbol]	V.A.V. BOX TYPE	[Symbol]	FAN POWERED BOX C/W RETURN AIR RETURN AIR
[Symbol]	V.A.V. BOX WITH ATTENUATOR	[Symbol]	INDUCTION V.A.V. BOX
[Symbol]	V.A.V. BOX WITH REHEAT COIL	[Symbol]	PRESSURE INDEPENDENT AIR VALVE
[Symbol]	V.A.V. BOX WITH REHEAT COIL AND ATTENUATOR		
HEATING ELEMENT TAG			
[Symbol]	HEATING CAPACITY	[Symbol]	DUCT COIL
[Symbol]	ACTIVE ELEMENT LENGTH	[Symbol]	RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
[Symbol]	ENCLOSURE TYPE	[Symbol]	WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE
[Symbol]	HORIZONTAL UNIT HEATER		
[Symbol]	DOWN BLAST UNIT HEATER		
[Symbol]	RADIANT HEATING PANEL		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 M001 AIR HANDLING SYMBOLS (MSD-012.09)

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REVISIONS AND ISSUES

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MJMA

macleanen jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416-593-5300 FAX 416-593-4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416-487-8151



Smith + Andersen

1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 8104 smitandanderson.com

SAYERS FOOD LIMITED

132 BURLINGHAM STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY

DRAWING TITLE

MECHANICAL STANDARD
DETAILS

SCALE

N.T.S.

DATE

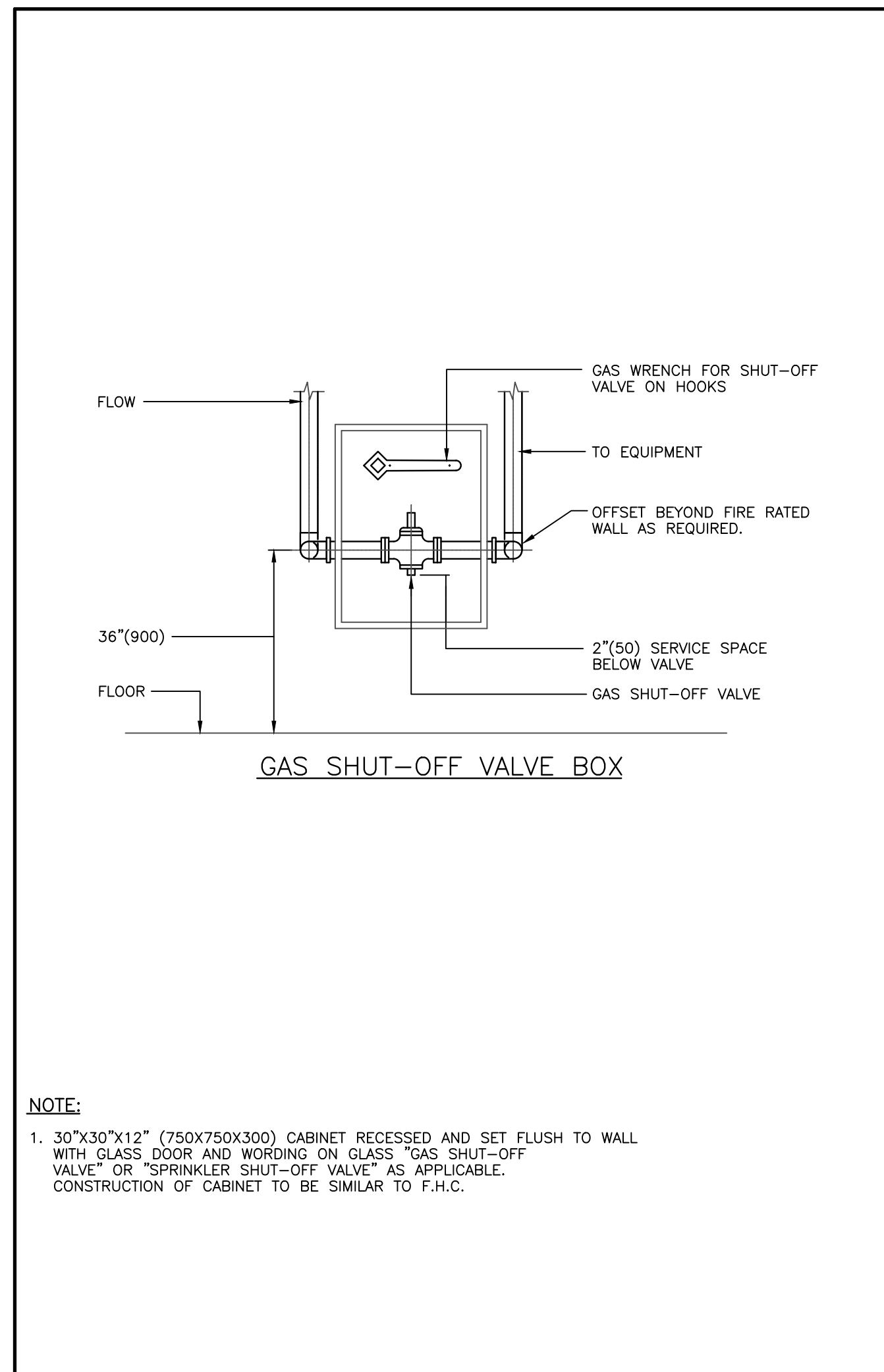
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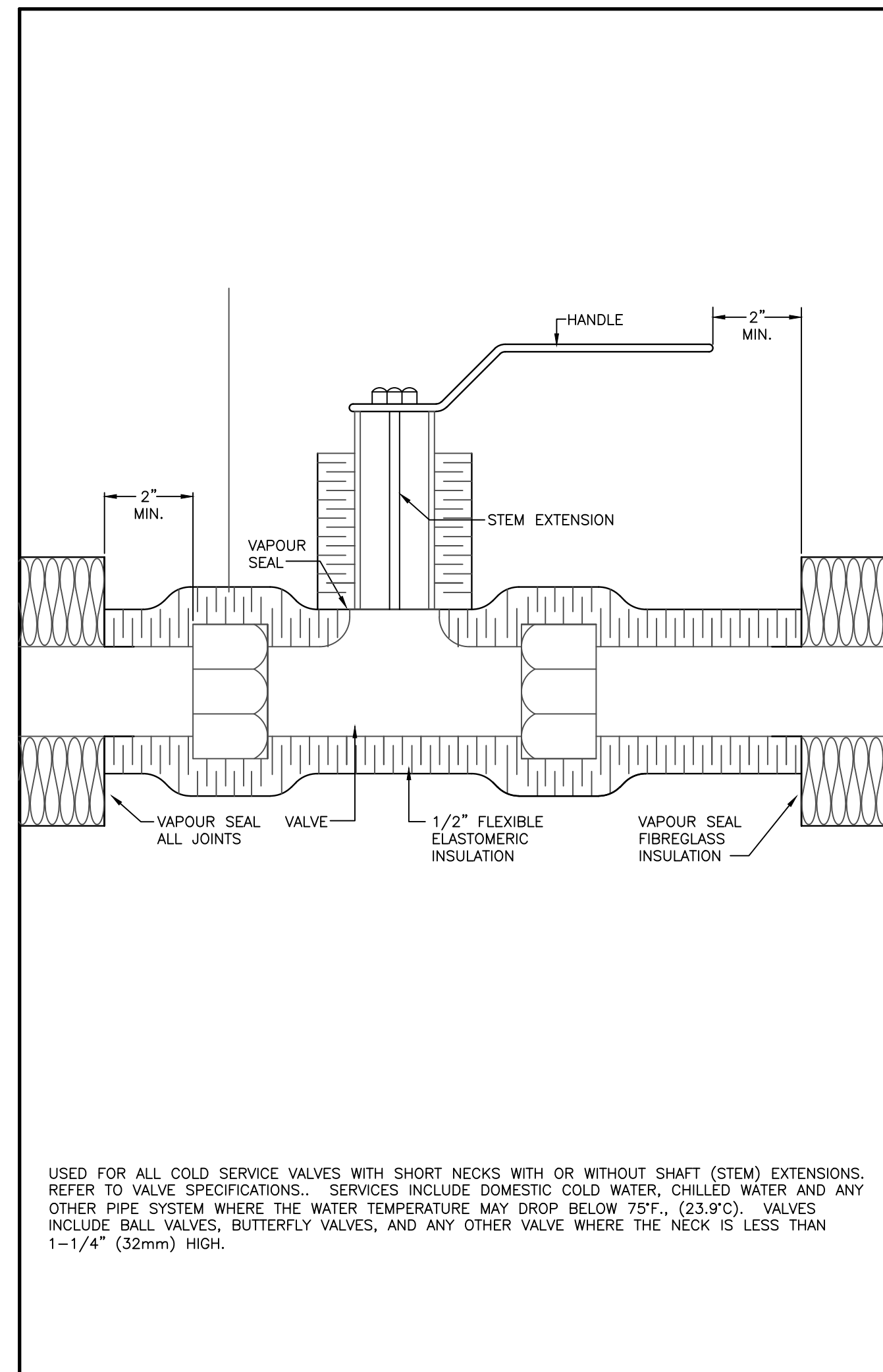
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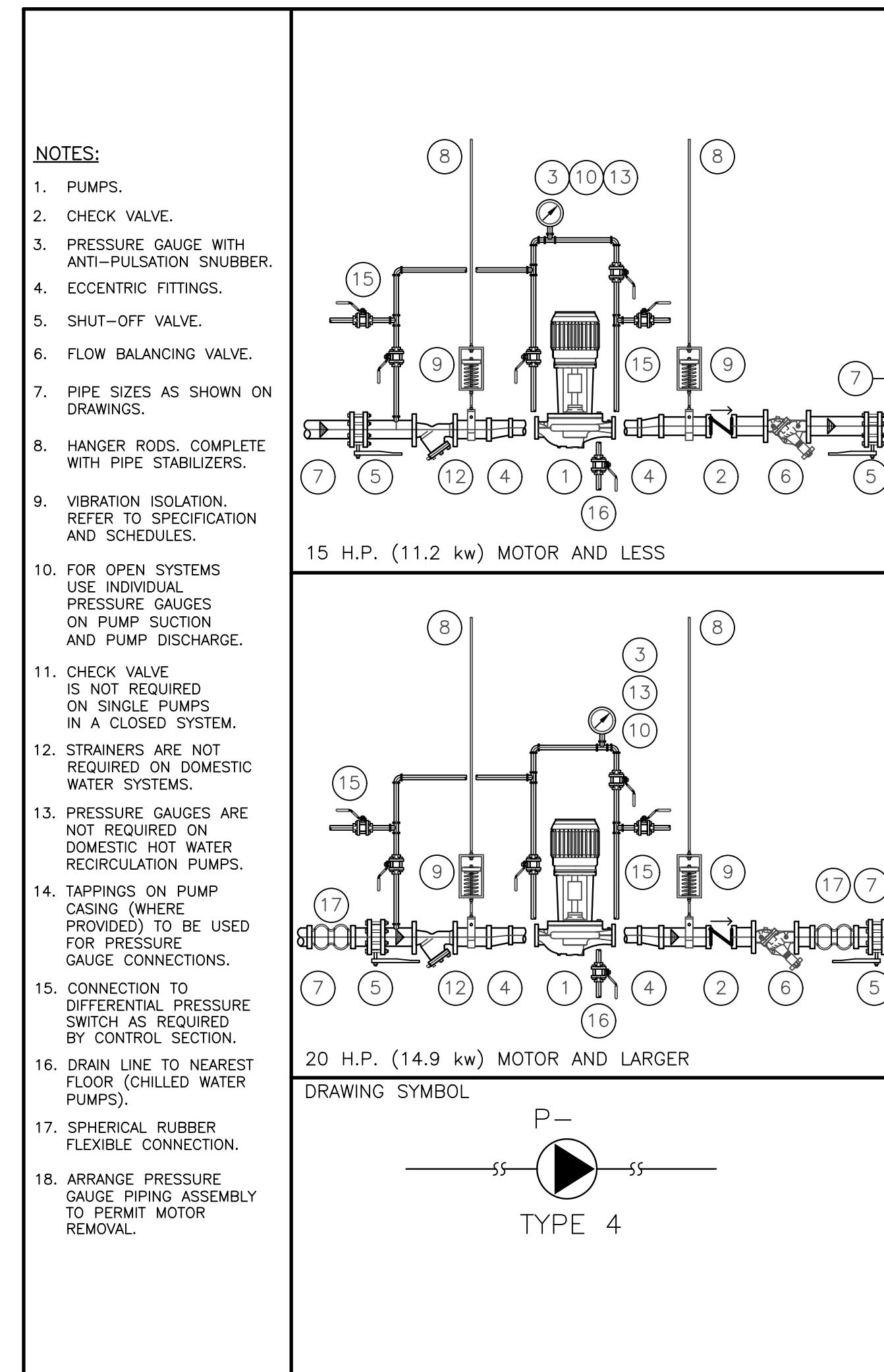
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7 SHUT-OFF VALVE BOX (MSD-350.01)



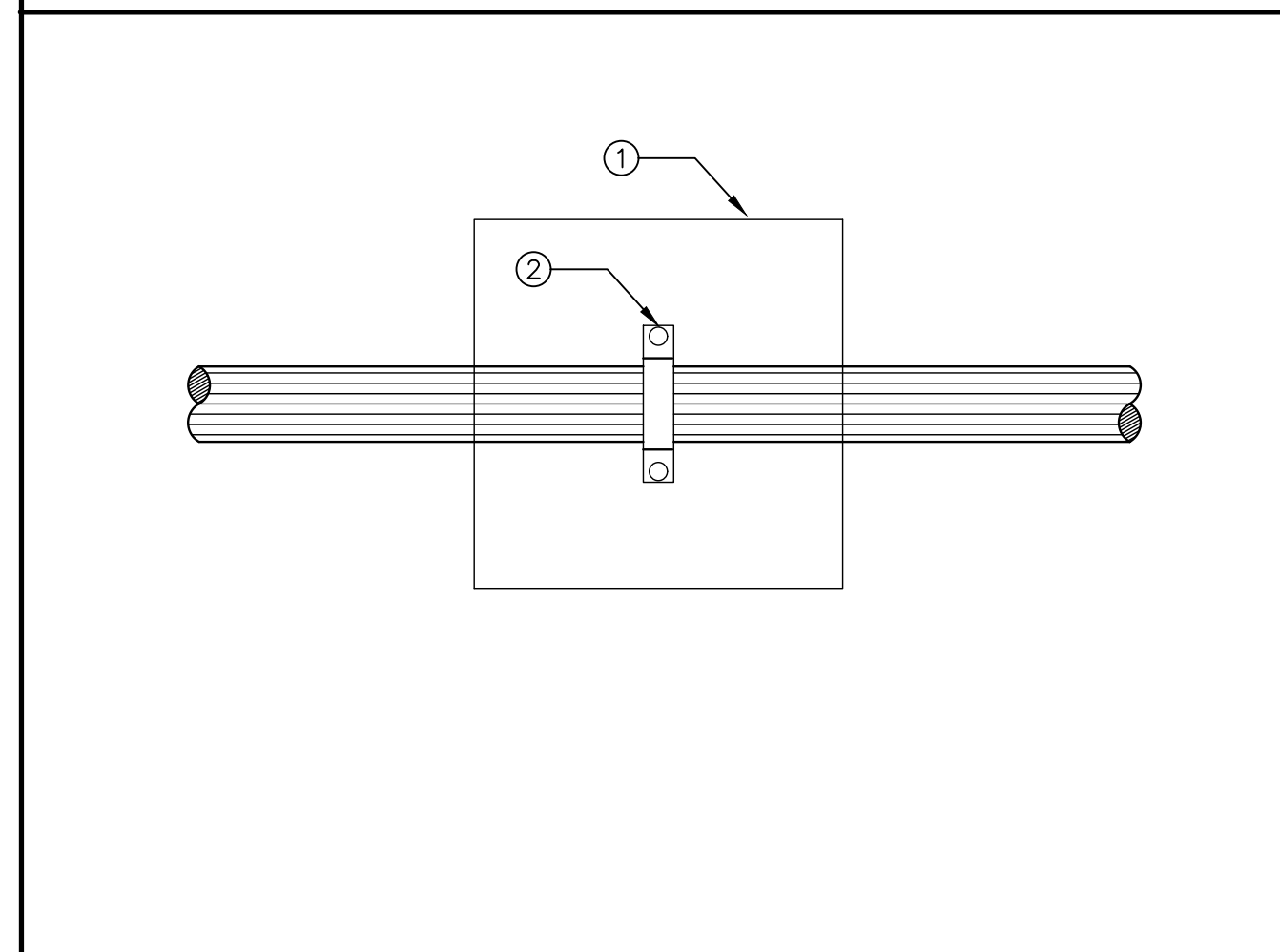
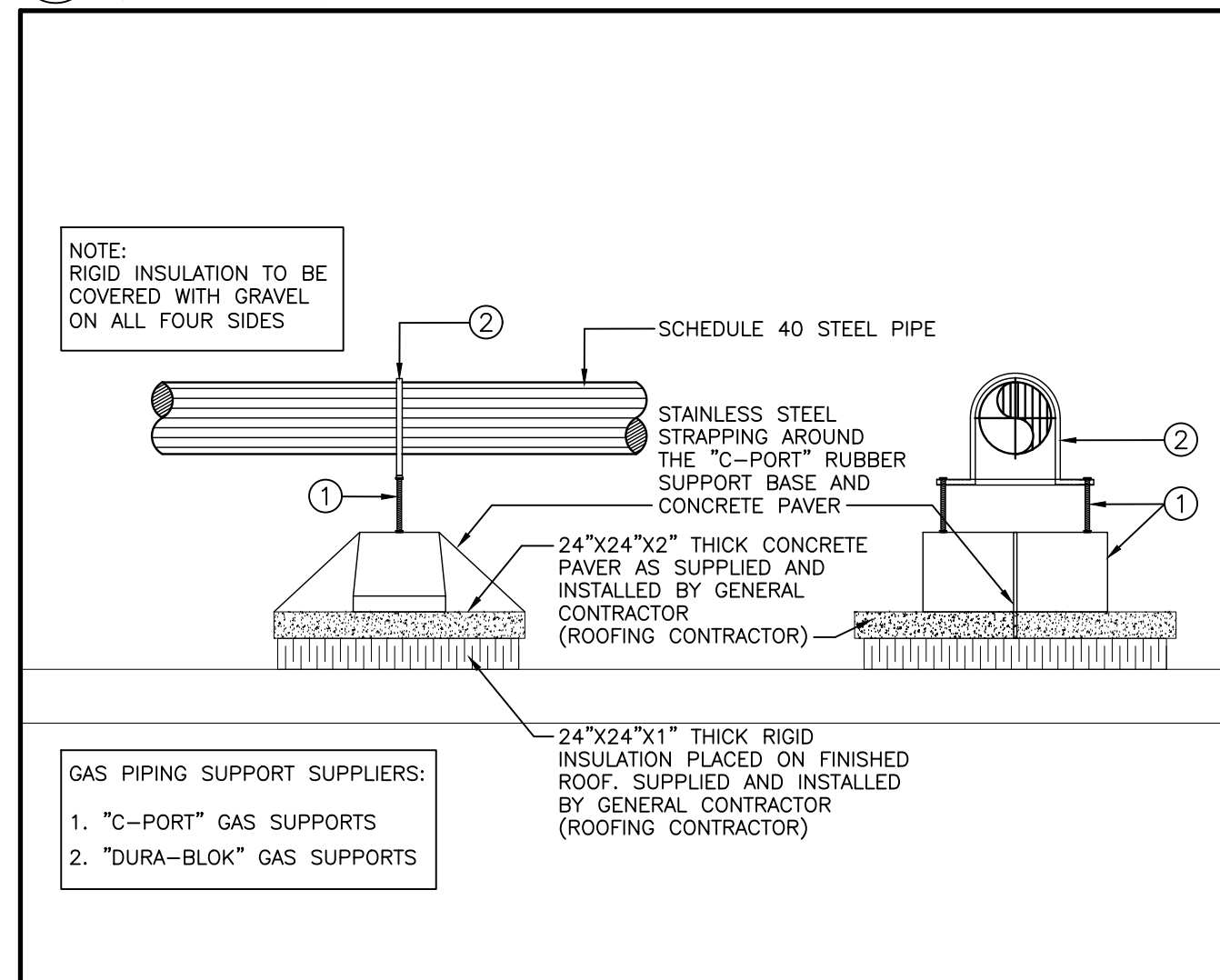
5 INSULATION AT COLD VALVES WITH SHORT NECKS (MSD-250.03)



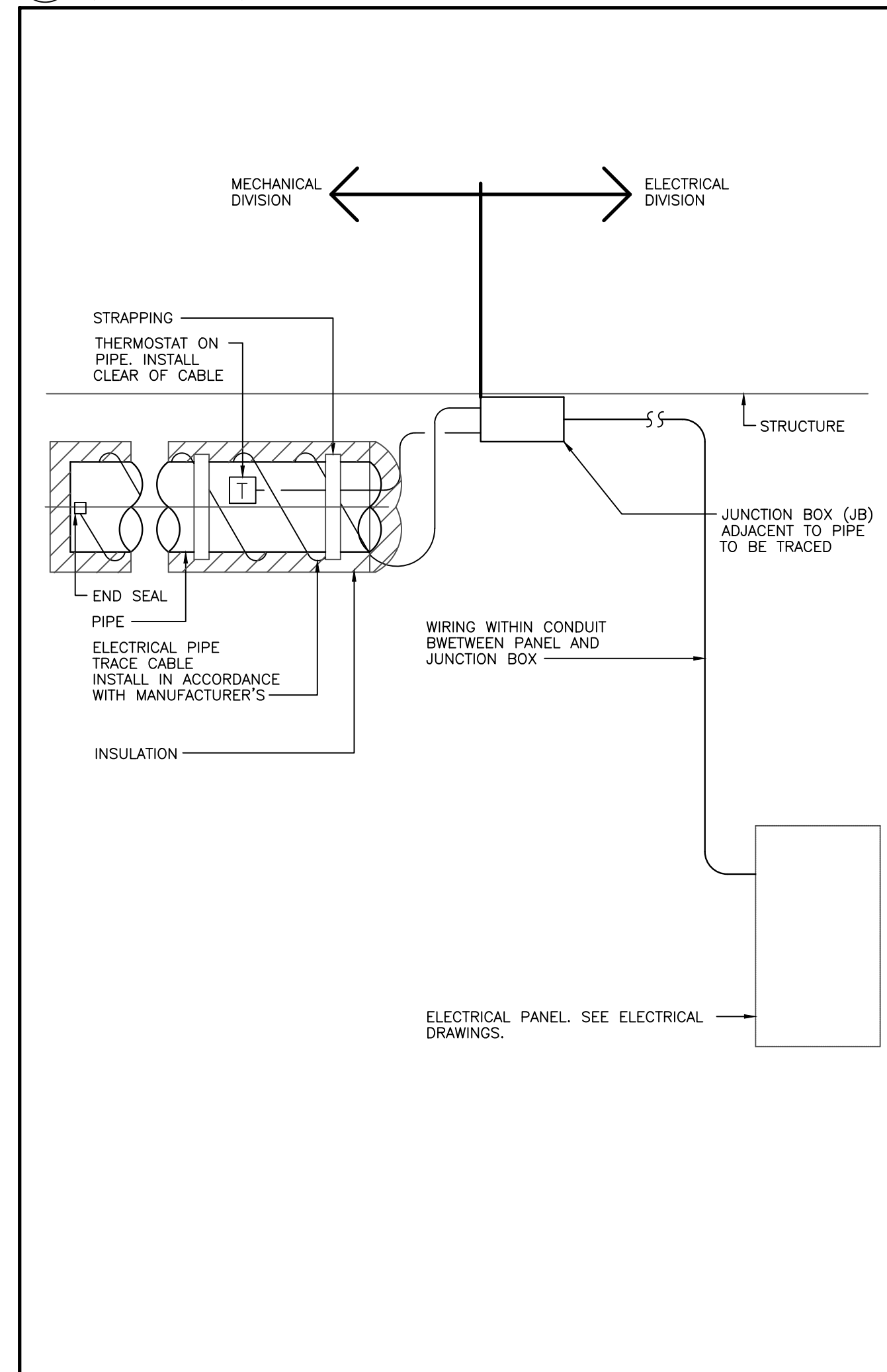
3 CEILING HUNG IN-LINE PUMPS TYPE 4 (MSD-141.04)

PIPE MARKER LEGEND	VALVE TAG LEGEND	BACKGROUND COLOUR	LEGEND COLOUR
CONDENSATE	COND.	YELLOW	BLACK
STORM DRAIN/SEWER		GREEN	WHITE
SANITARY DRAIN/SEWER		GREEN	WHITE
ACID DRAIN/VENT		YELLOW	BLACK
ISOTOPE DRAIN/VENT		YELLOW	BLACK
REFRIGERANT SUCTION	R.S.	YELLOW	BLACK
REFRIGERANT LIQUID	R.L.	YELLOW	BLACK
REFRIGERANT HOT GAS	R.H.G.	YELLOW	BLACK
ENGINE EXHAUST		YELLOW	BLACK
FUEL OIL	F.O.	YELLOW	BLACK
COMPRESSED AIR 100 P.S.I. (700 KPa) & LOWER	L.P.C.A.	GREEN	WHITE
COMPRESSED AIR OVER 100 PSI (700 KPa)	H.P.C.A.	YELLOW	BLACK
FIRE STANDPIPE	F.S.P.	RED	WHITE
SPRINKLER	SP	RED	WHITE
DRY SPRINKLER PIPE	DSP	RED	WHITE
CARBON DIOXIDE (FIRE PROTECTION)	CO ₂	RED	WHITE
VENT (PLUMBING)		GREEN	WHITE

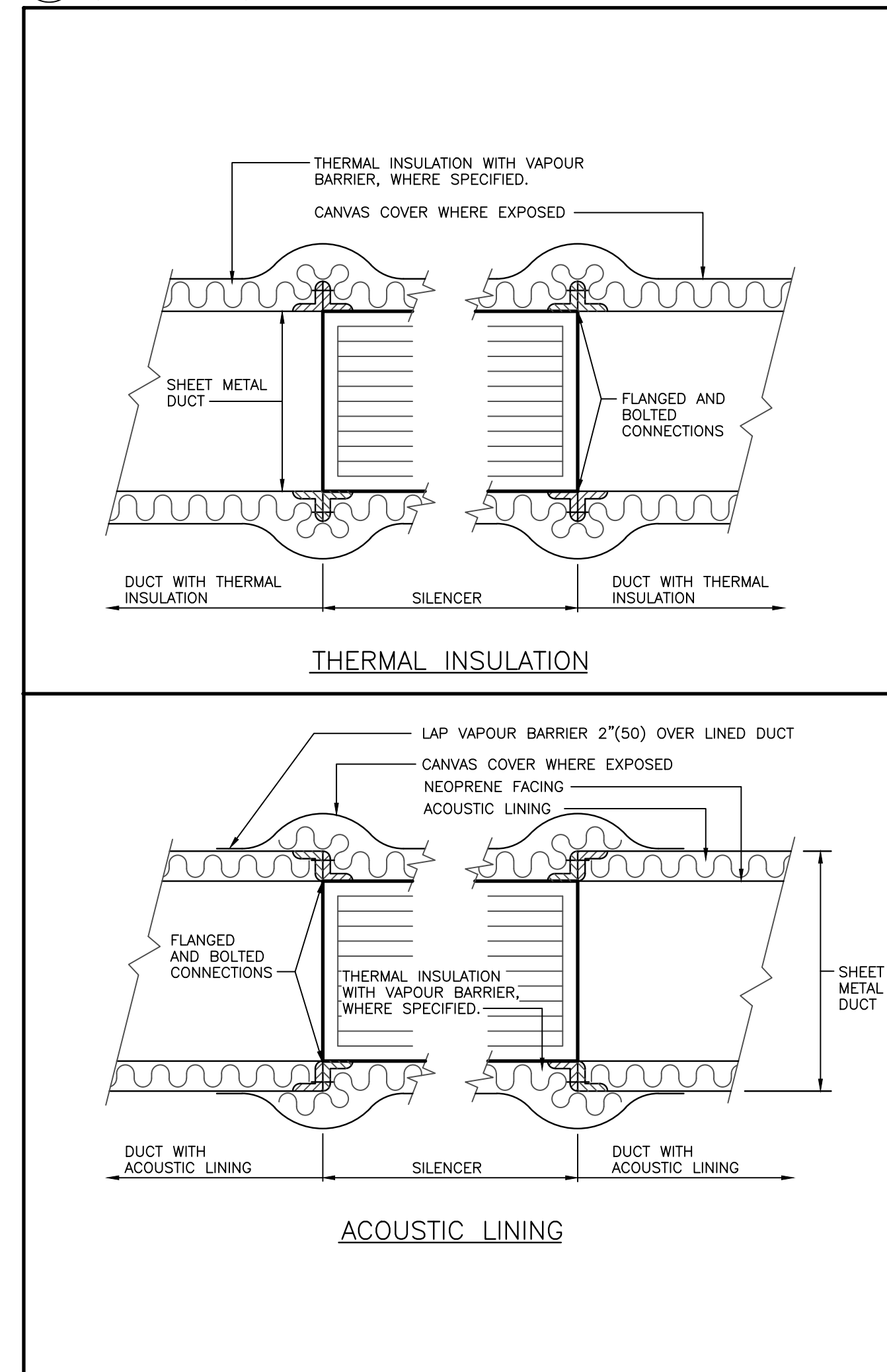
1 PIPE IDENTIFICATION (MSD-058.03)



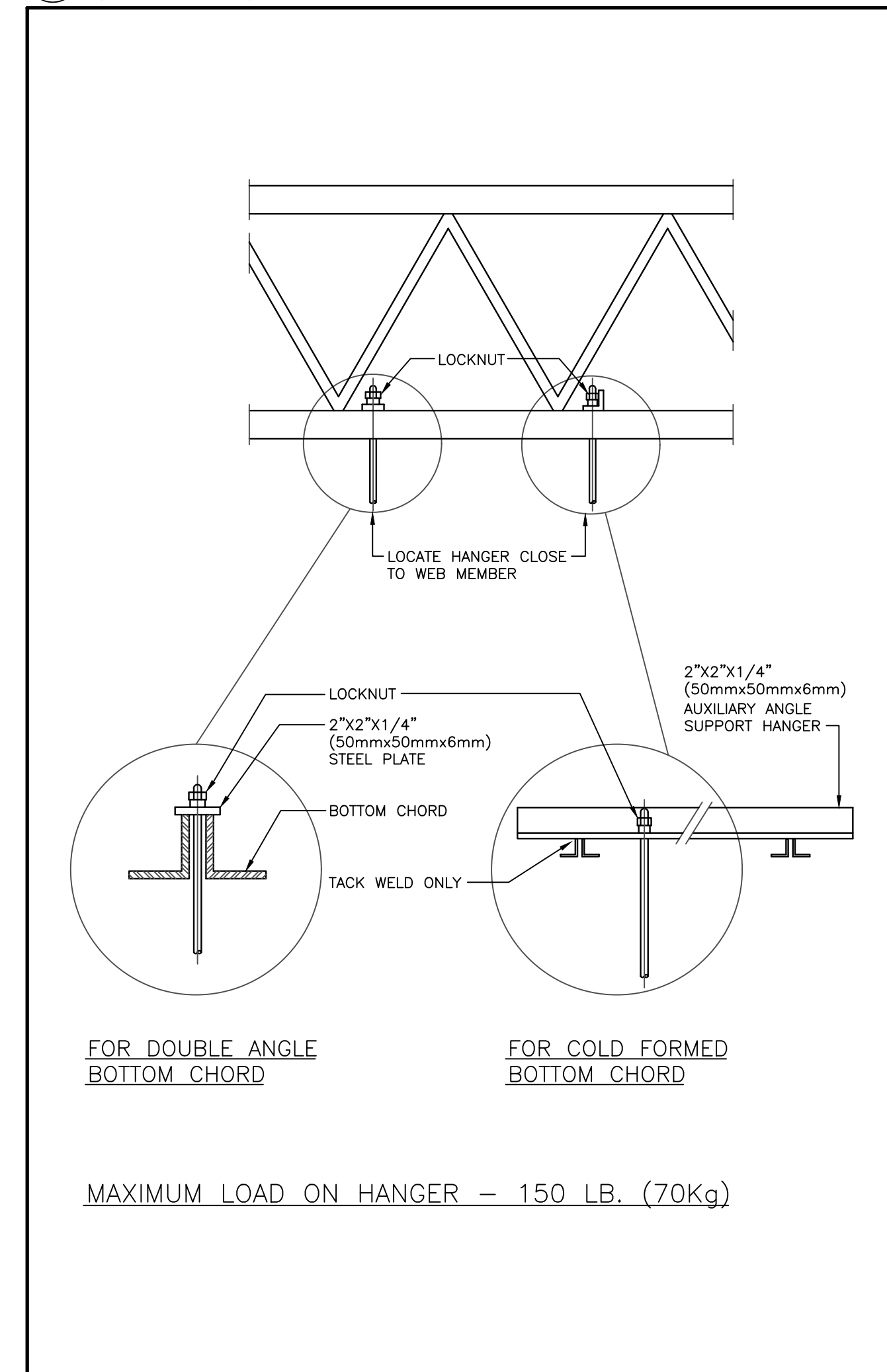
8 GAS PIPING ON ROOF (MSD-350.02)



6 ELECTRICAL PIPE TRACING (MSD-250.04)



4 SILENCER INSULATION (MSD-250.01)



2 JOIST HANGERS (MSD-094.01)

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MJMA
maclennan jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

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CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
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TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
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MECHANICAL AND ELECTRICAL ENGINEERS
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t: 705.656.4531
e: sayers@apspley.ca



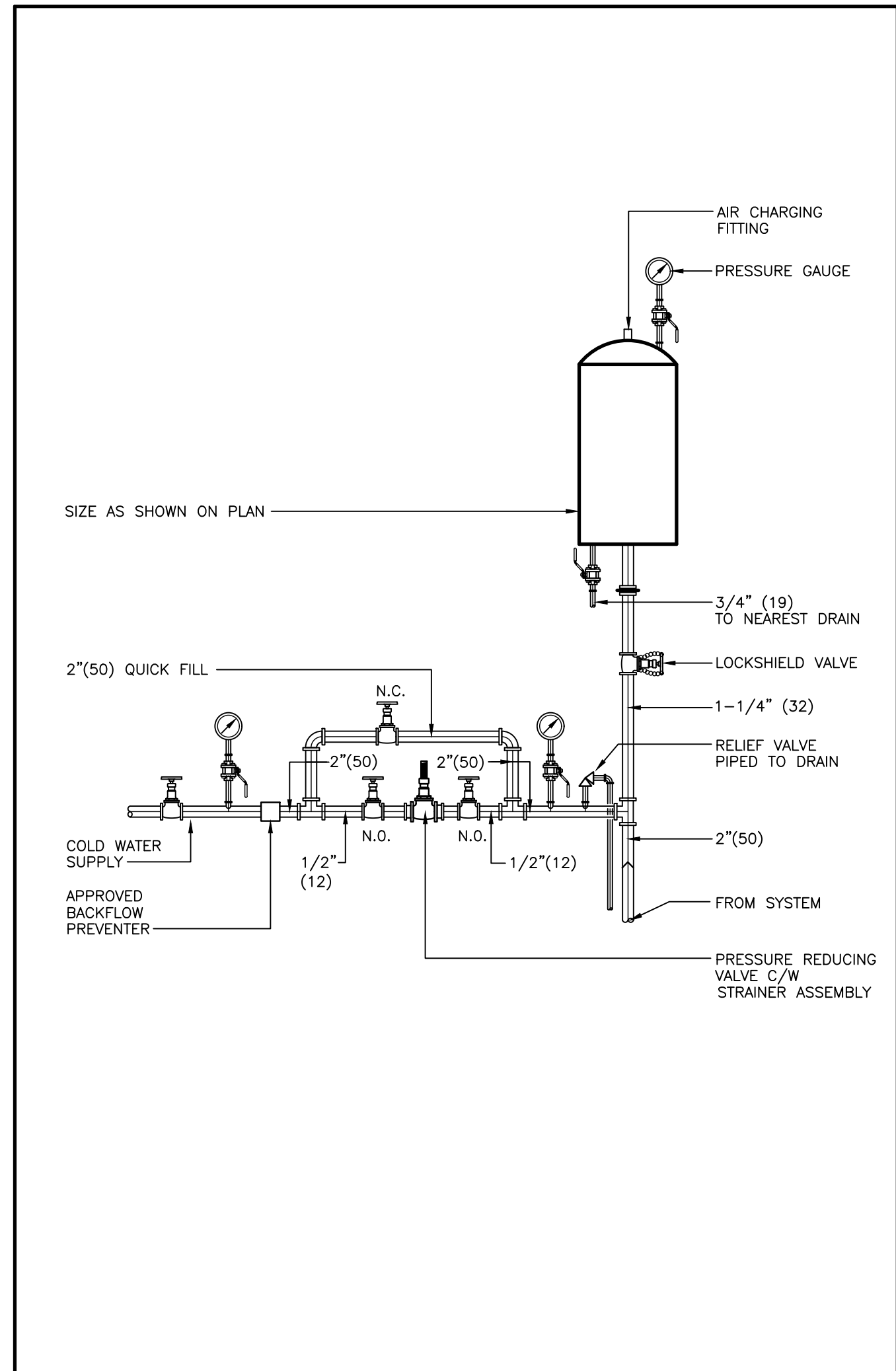
PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE
MECHANICAL STANDARD
DETAILS

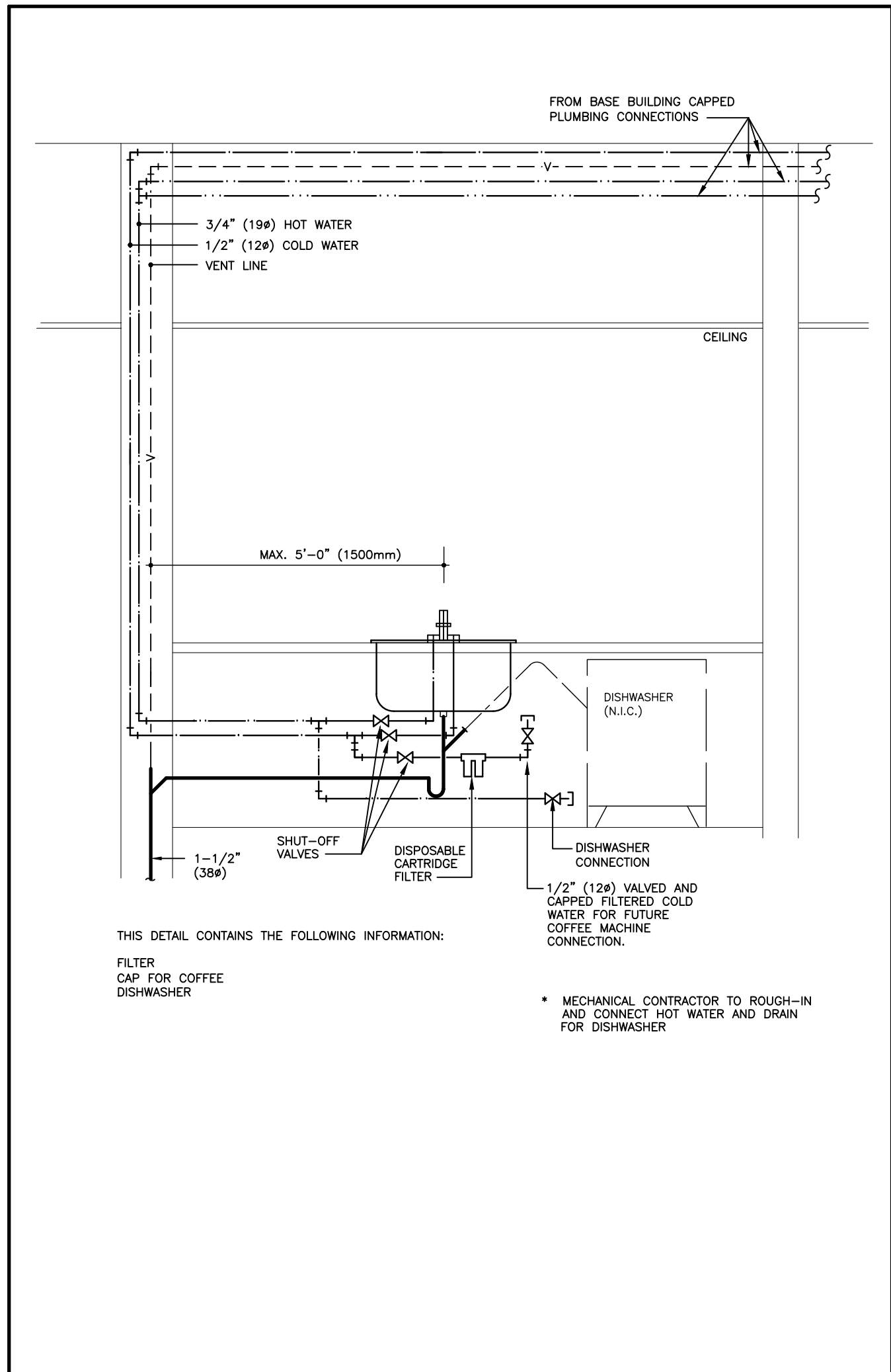
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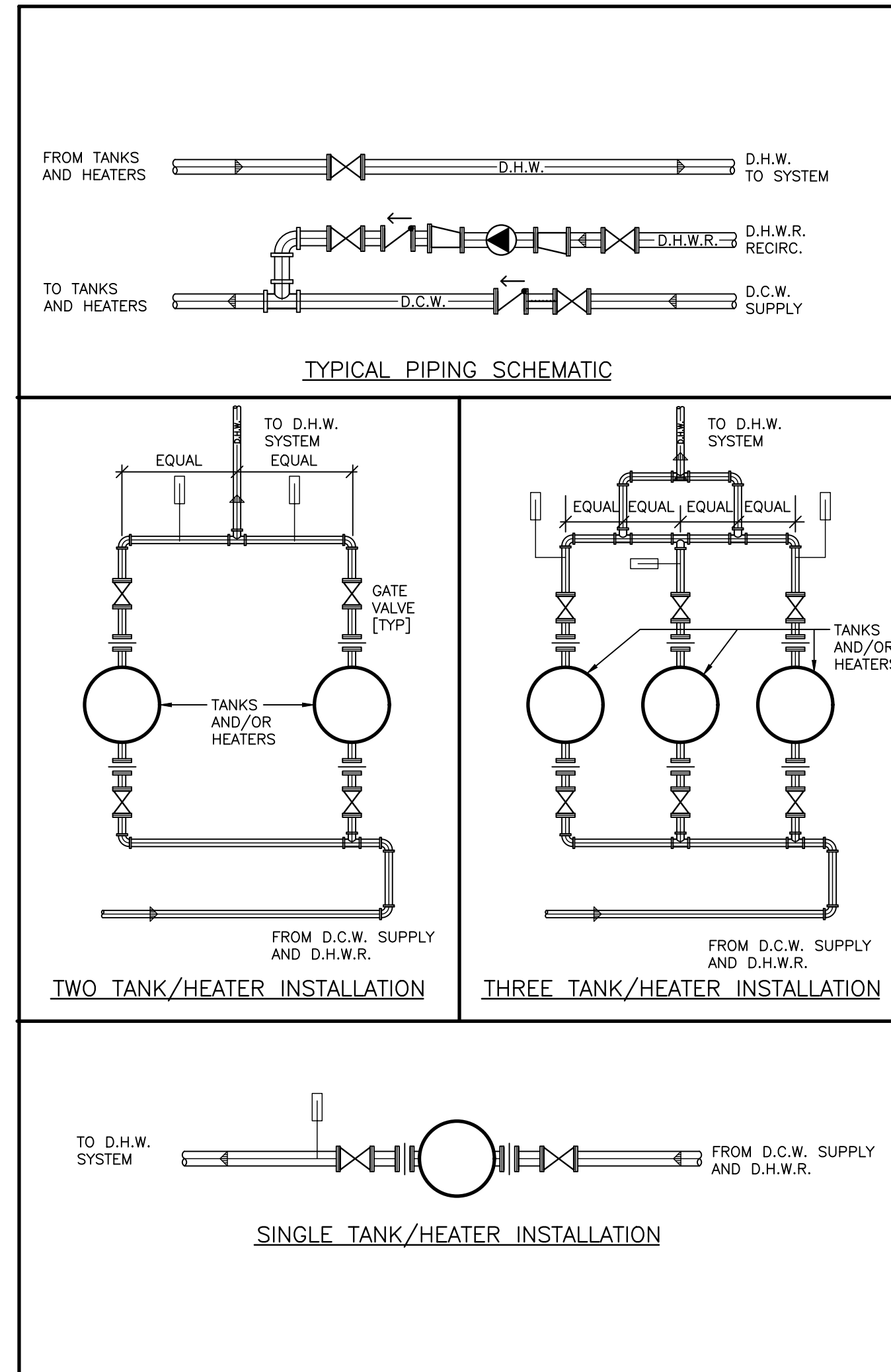
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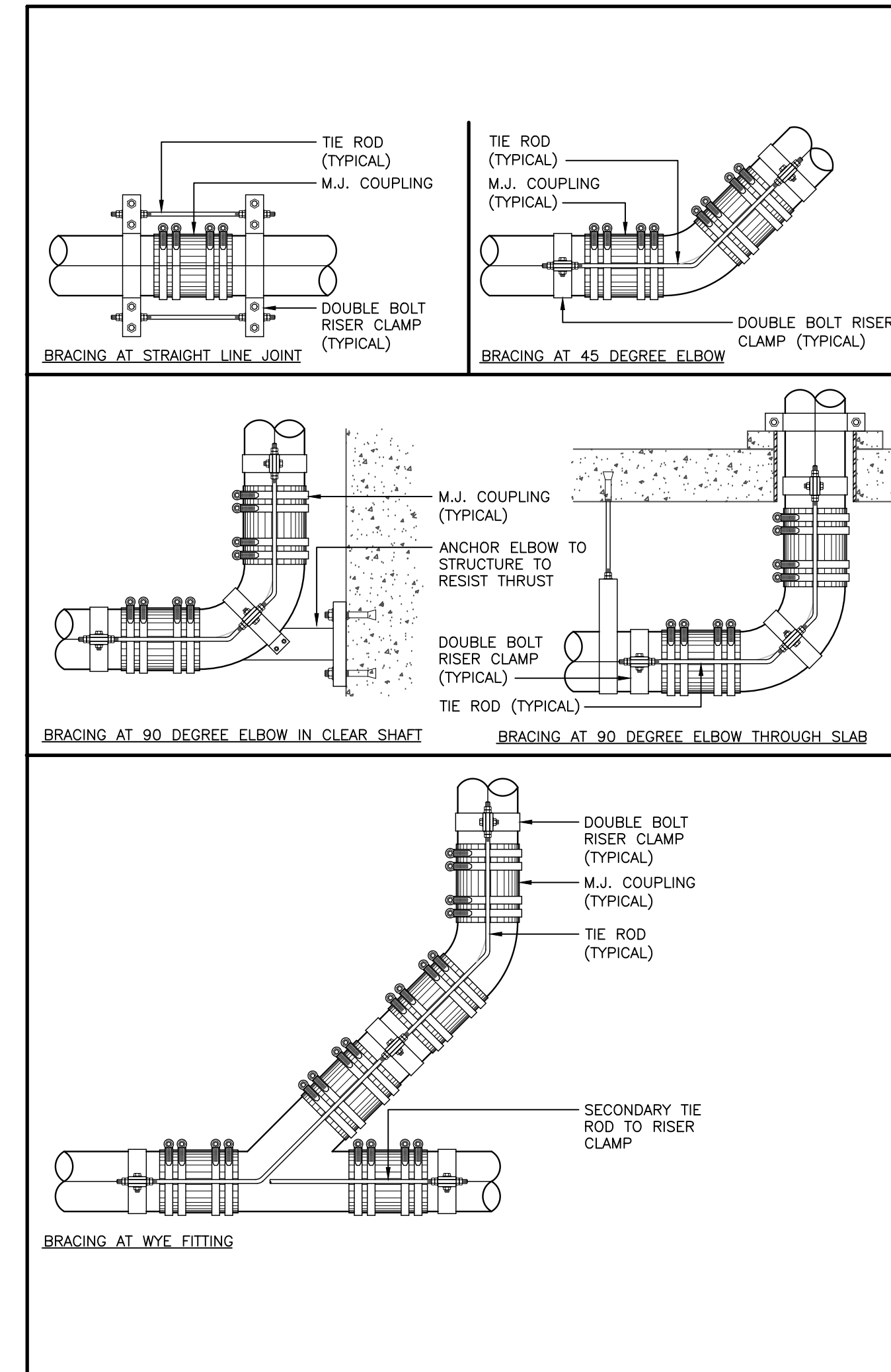
7 M003 DIAPHRAM EXPANSION TANK PIPING SCHEMATIC (MSD-708.01)



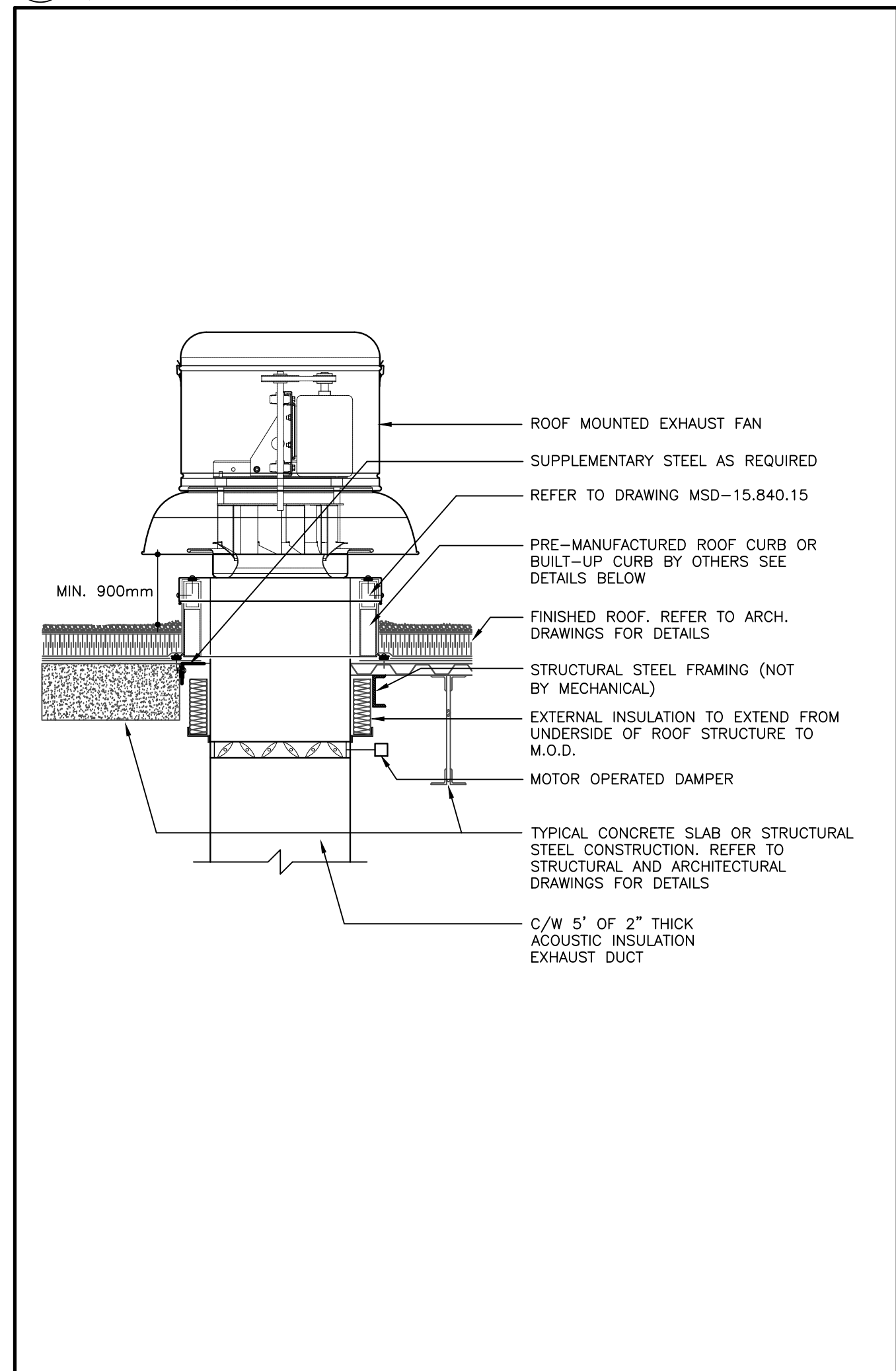
5 M003 COUNTER SINK CS-1 DETAIL (MSD-450.30)



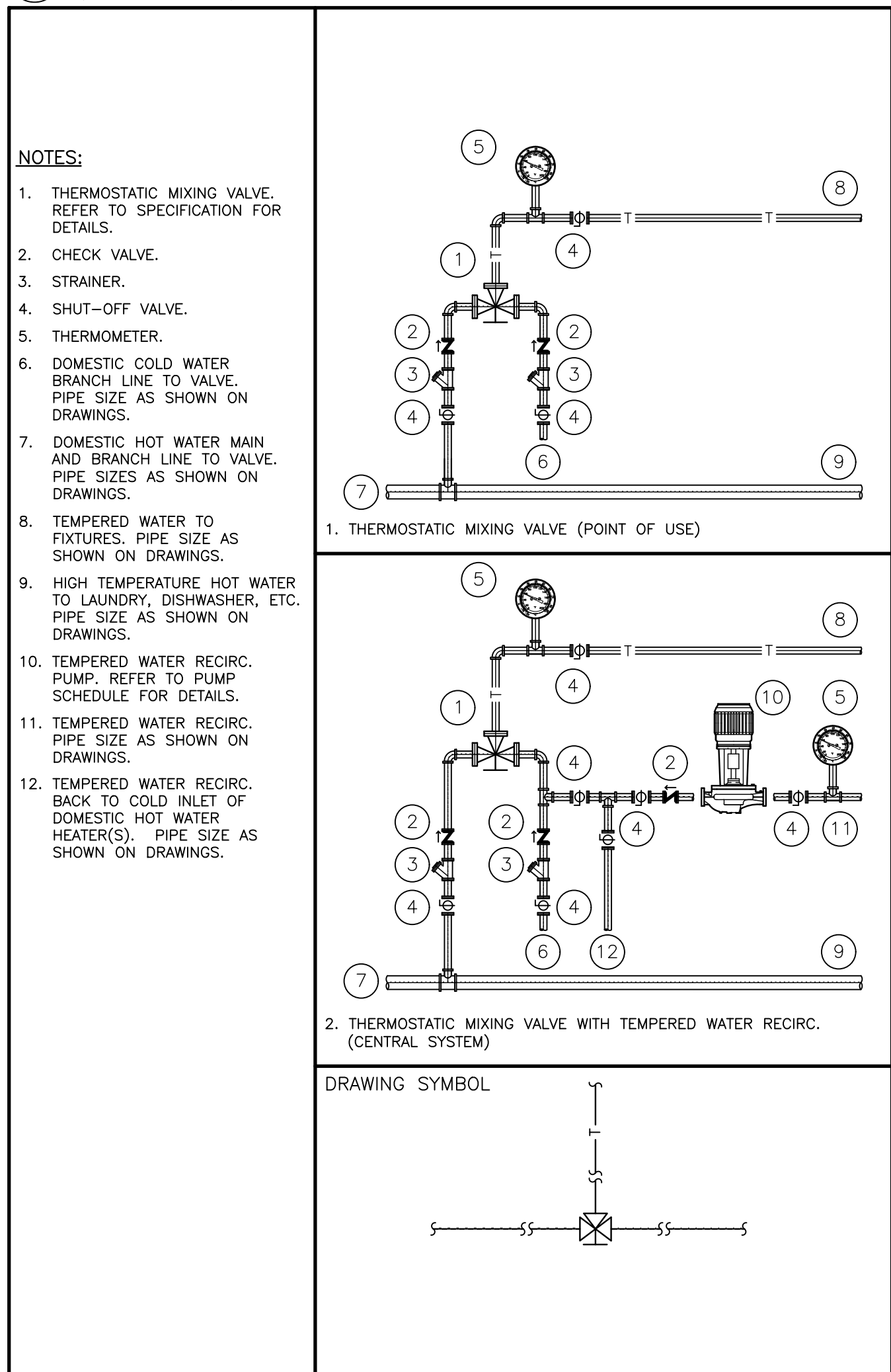
3 M003 DOMESTIC HOT WATER HEATERS (MSD-425.01)



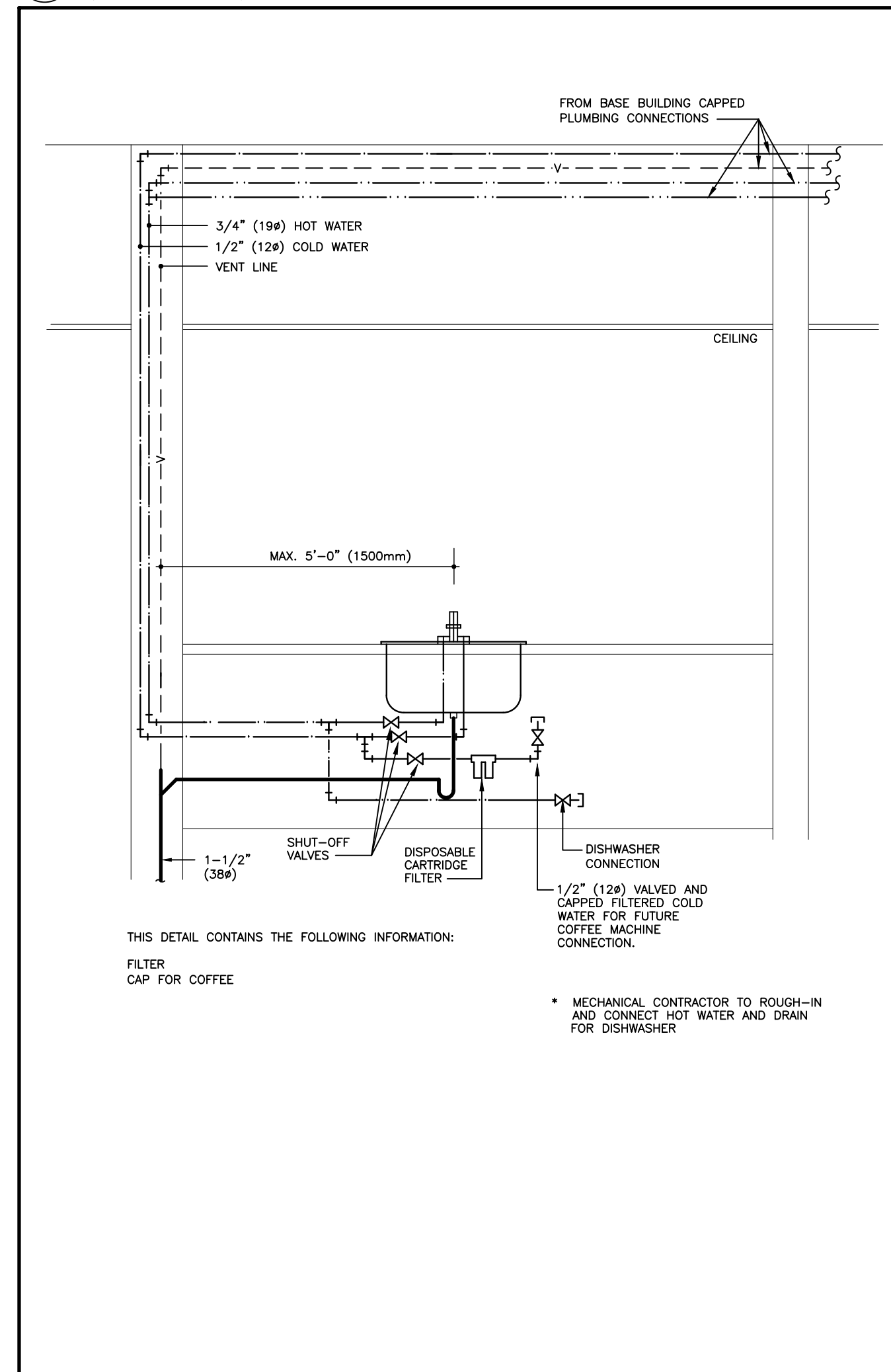
1 M003 MECHANICAL JOINT SPACING (MSD-410.02)



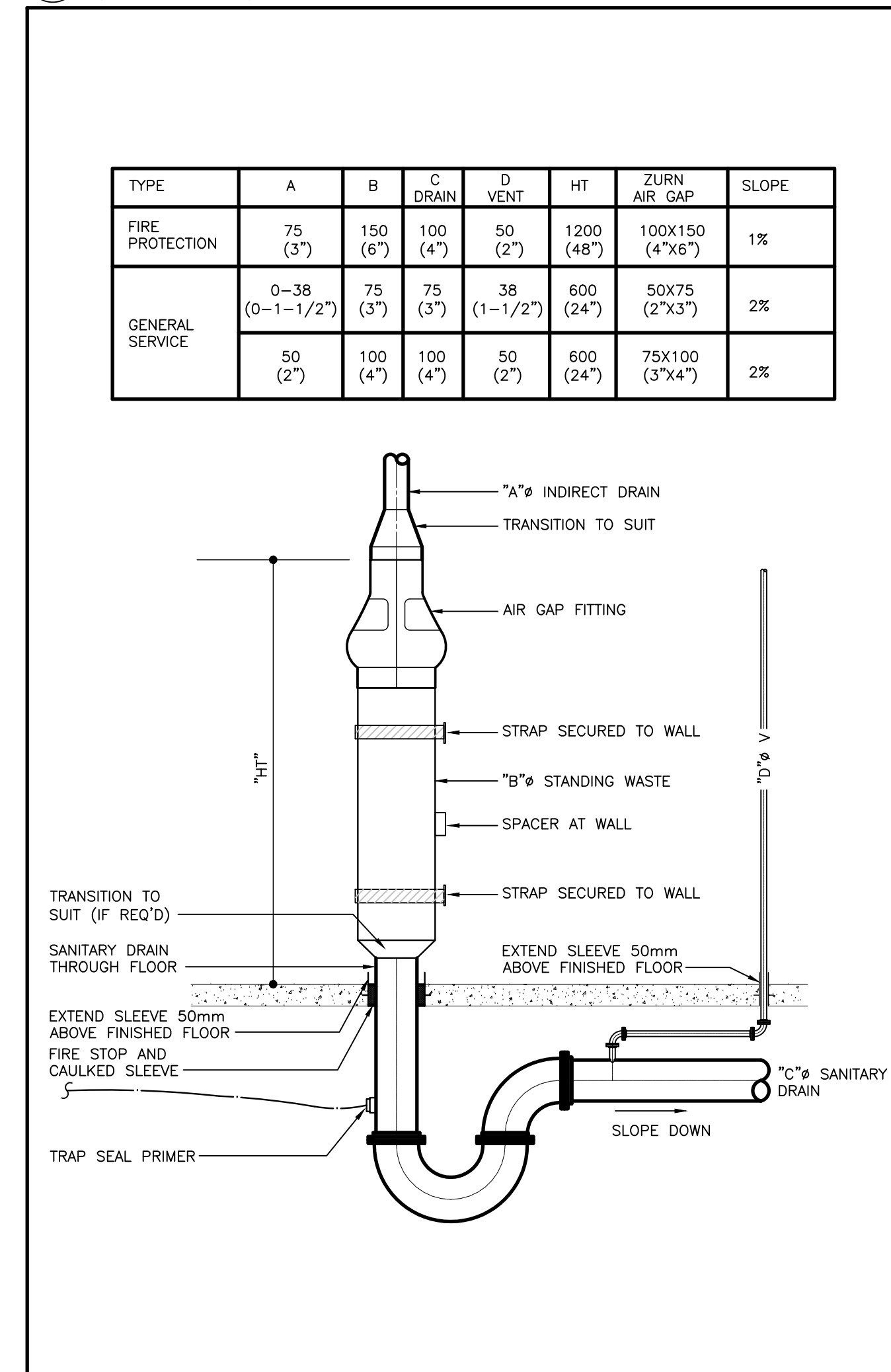
8 M003 ROOF MOUNTED EXHAUST FAN (MSD-824.01)



6 M003 THERMOSTATIC MIXING VALVES (MSD-450.31)



4 M003 COUNTER SINK CS-1 DETAIL (MSD-450.30)



2 M003 INDIRECT STANDING WASTE (MSD-410.04)

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MJMA
 maclean jaunkains miller architects
 425 adelaide street west level 6
 toronto ontario m5v 3c1
 416.593.6796
 www.mjmaarchitects.com

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 CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 DRANGVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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 TORONTO, ONTARIO, M5V 2H2
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 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151

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 1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
 416.487.8151 f 416.487.9104 smthandanderson.com

SAYERS FOOD LIMITED
 132 BURLINGHAM STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLINGHAM STREET, APSLEY**

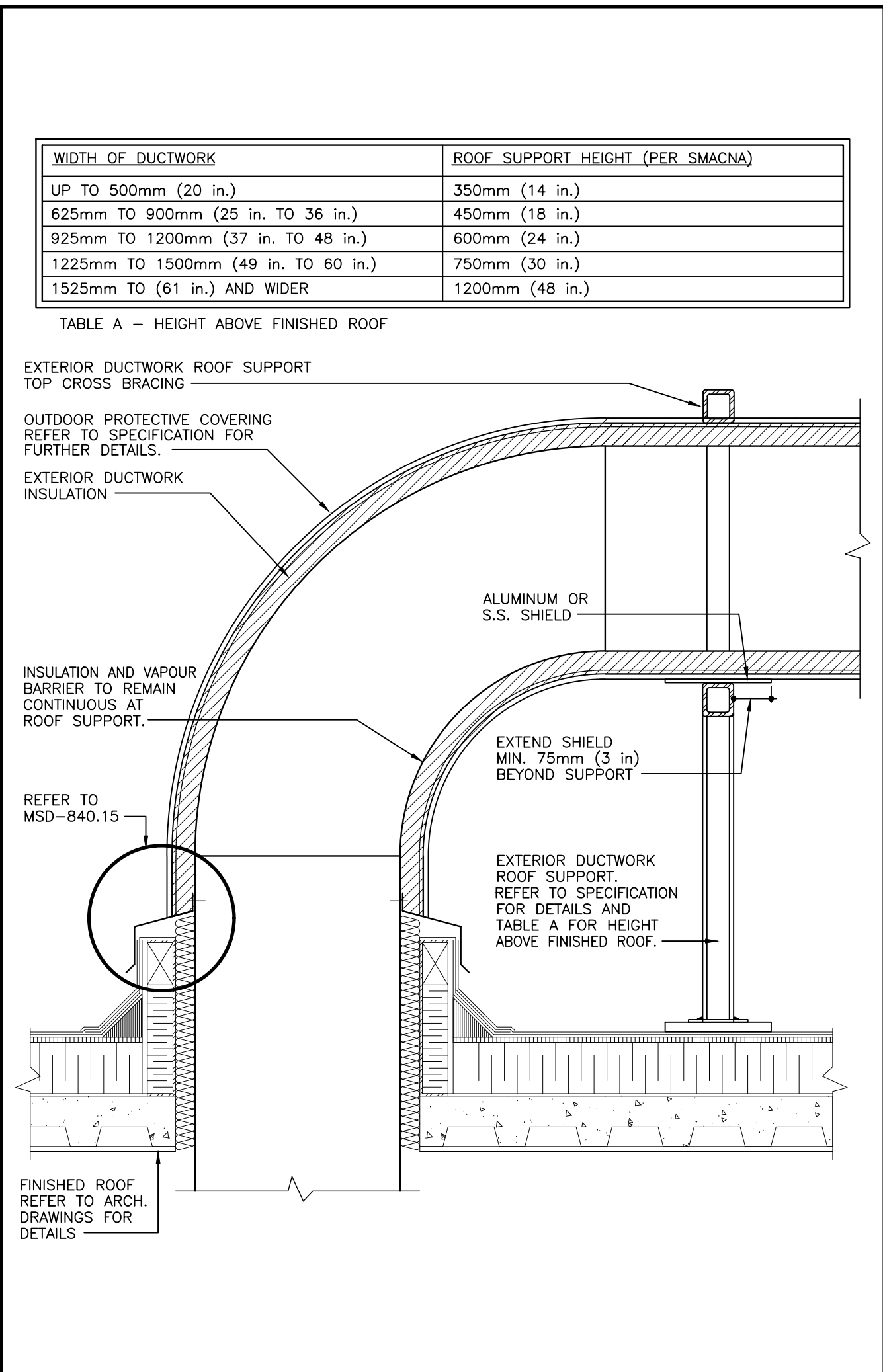
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**MECHANICAL STANDARD
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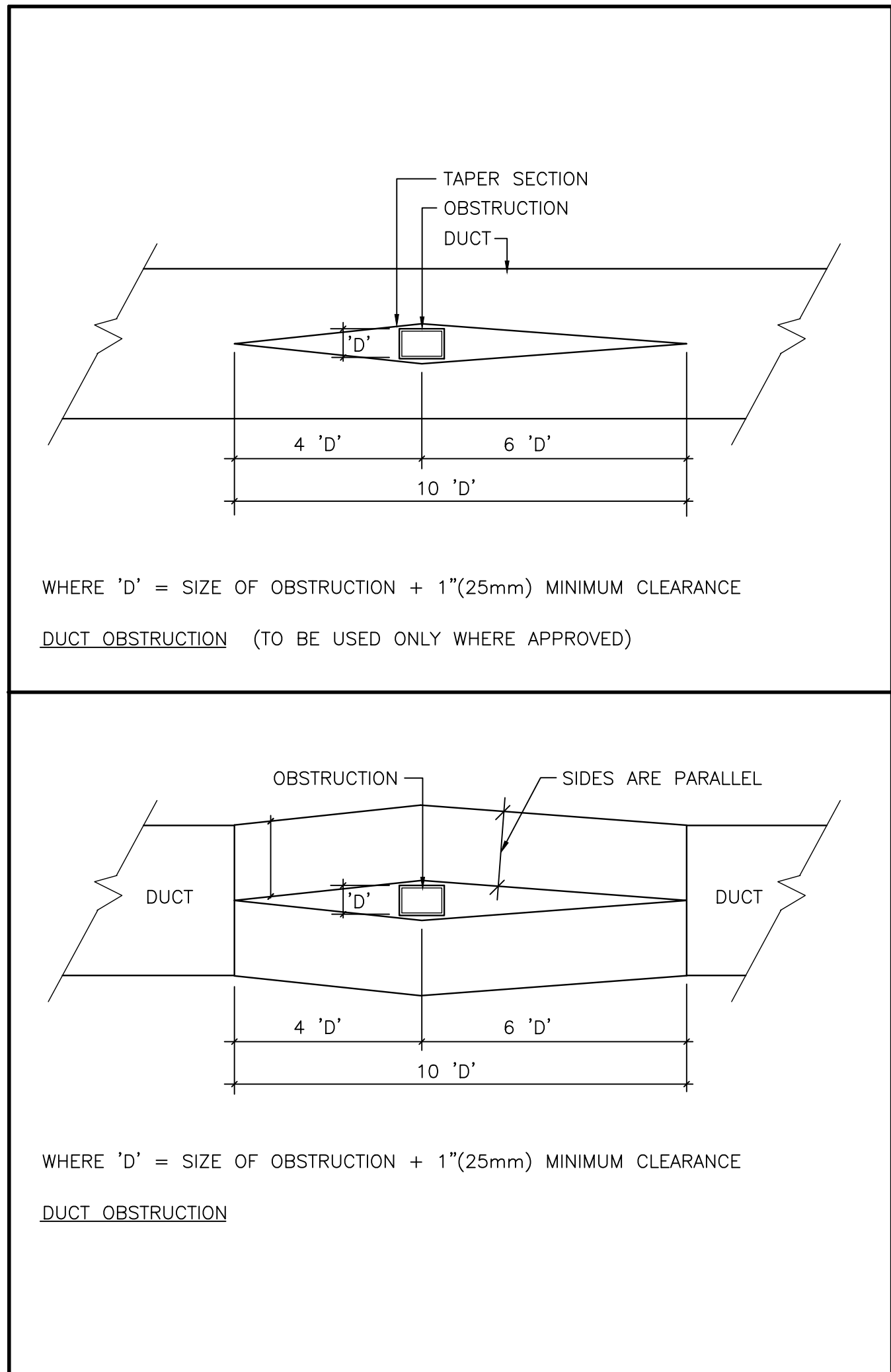
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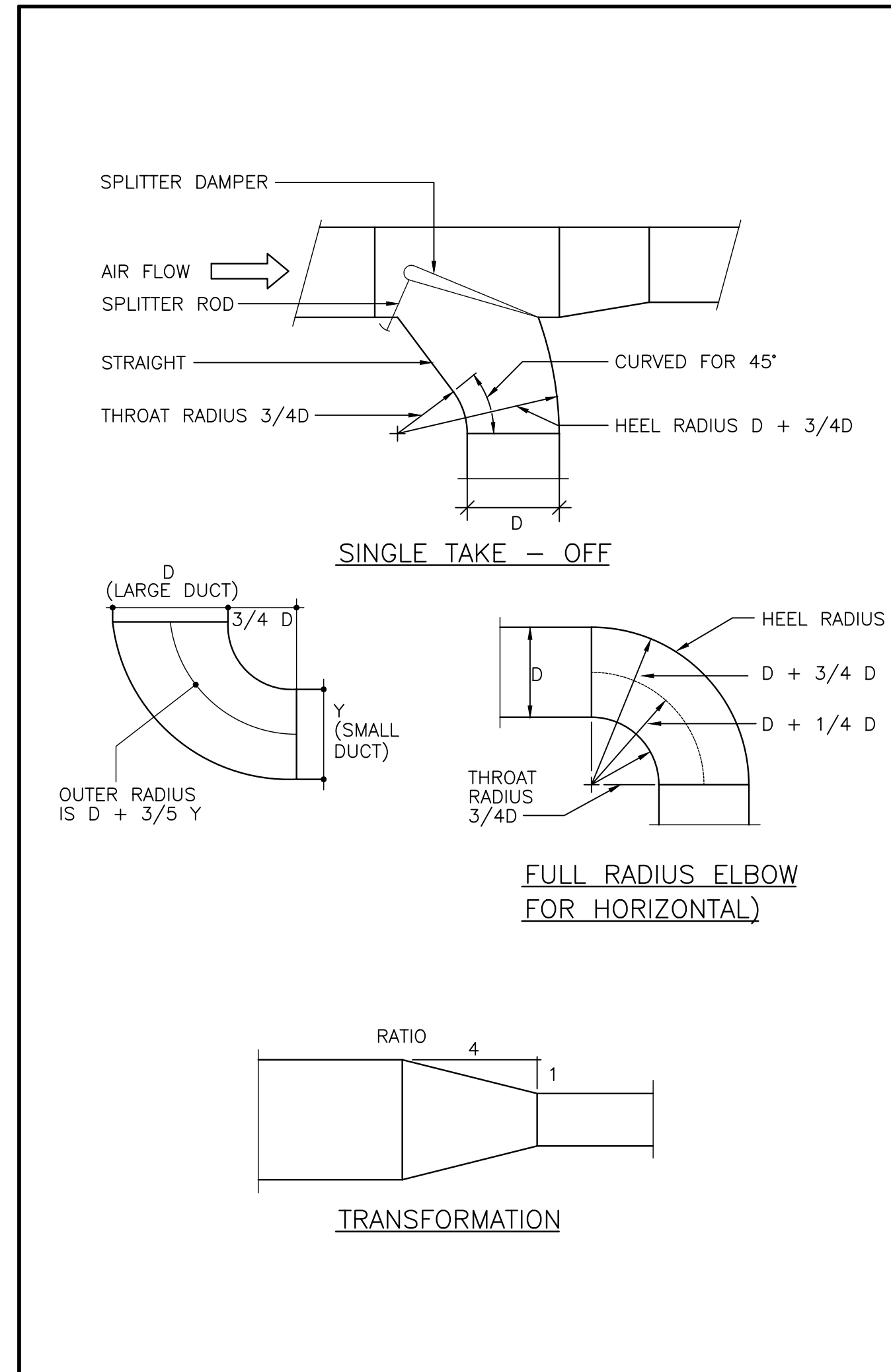
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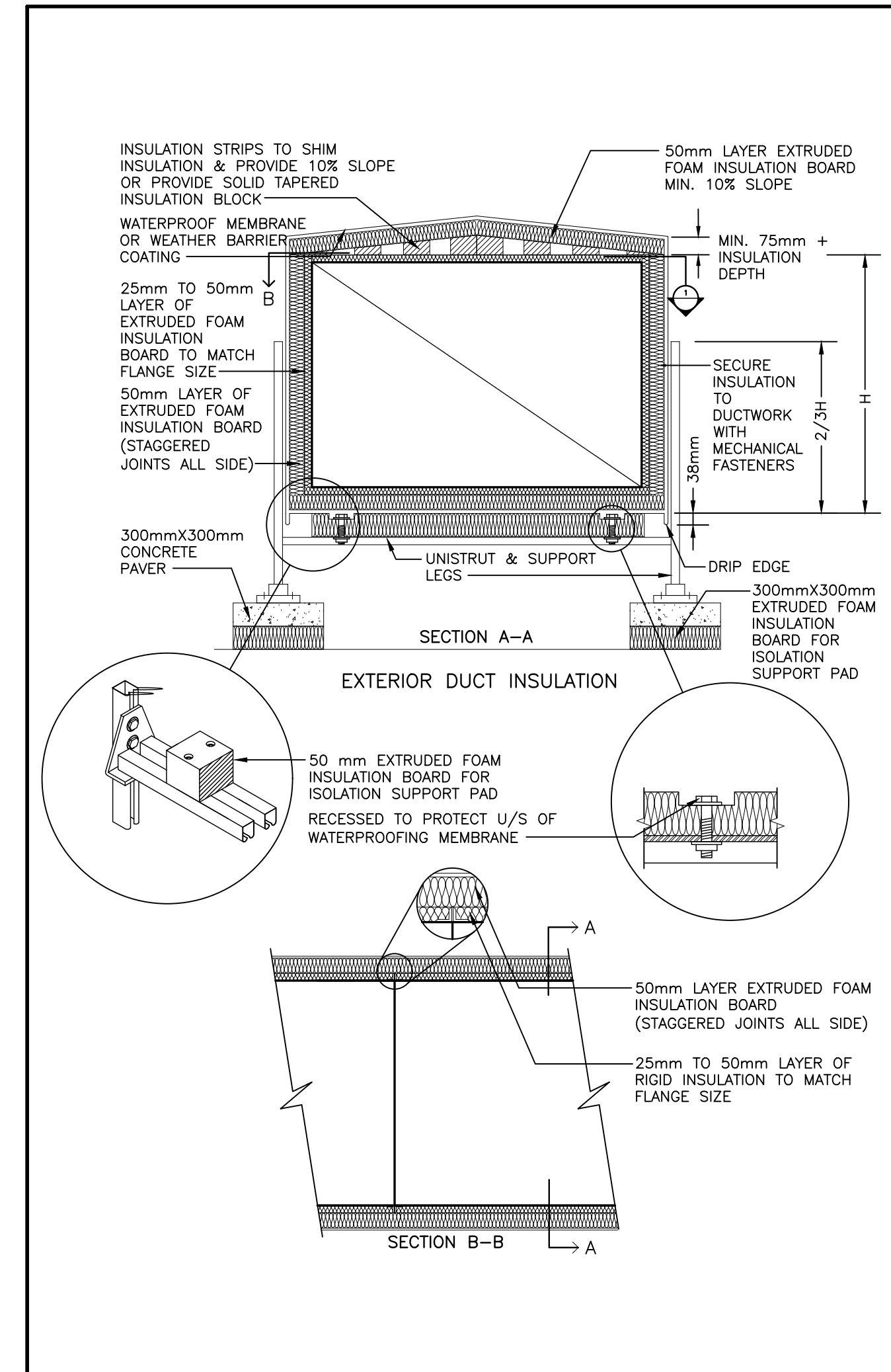
7 M004 EXTERIOR DUCTWORK ROOF PENETRATION (MSD-840.14)



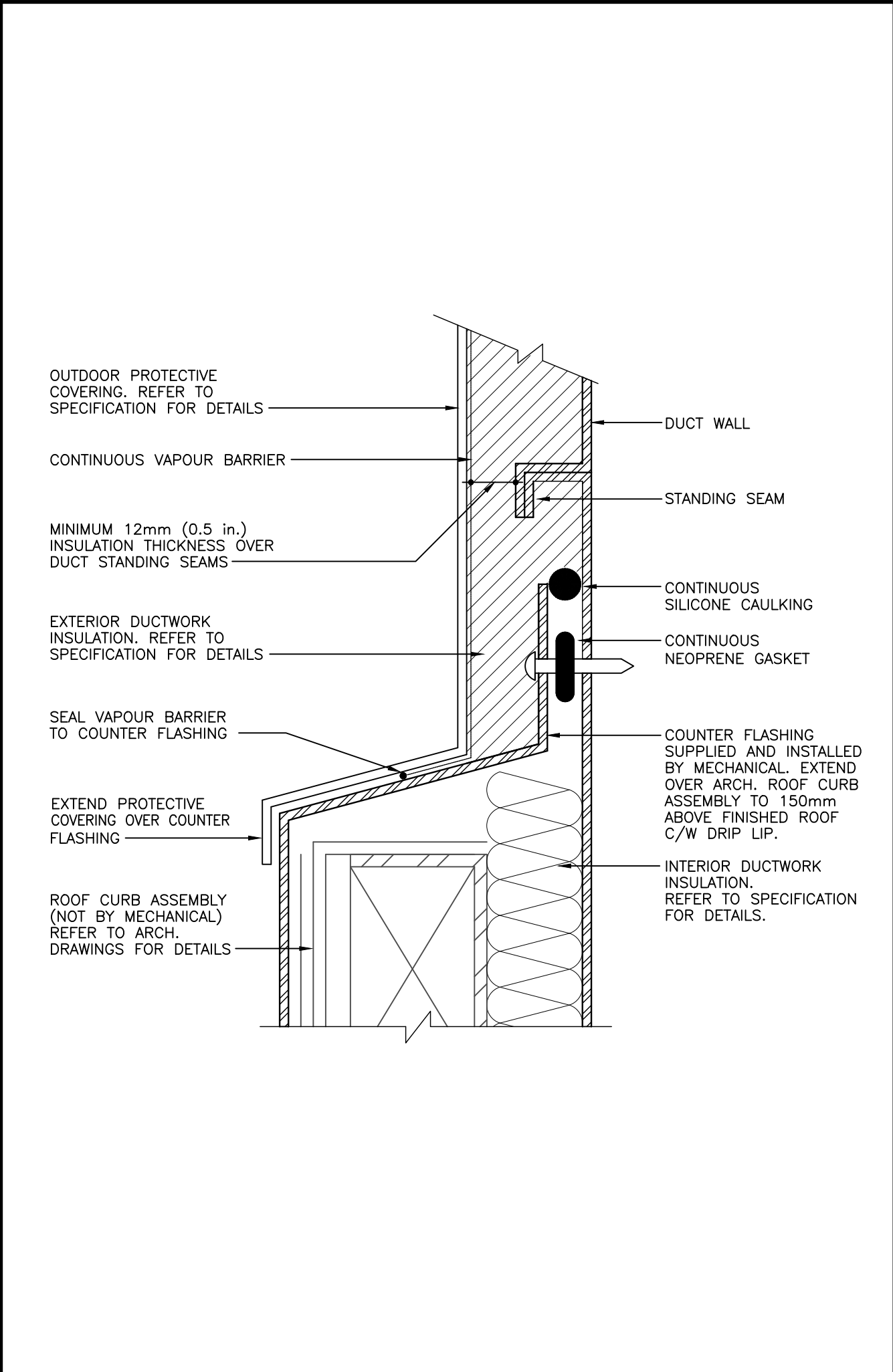
5 M004 DUCT OBSTRUCTIONS (MSD-840.07)



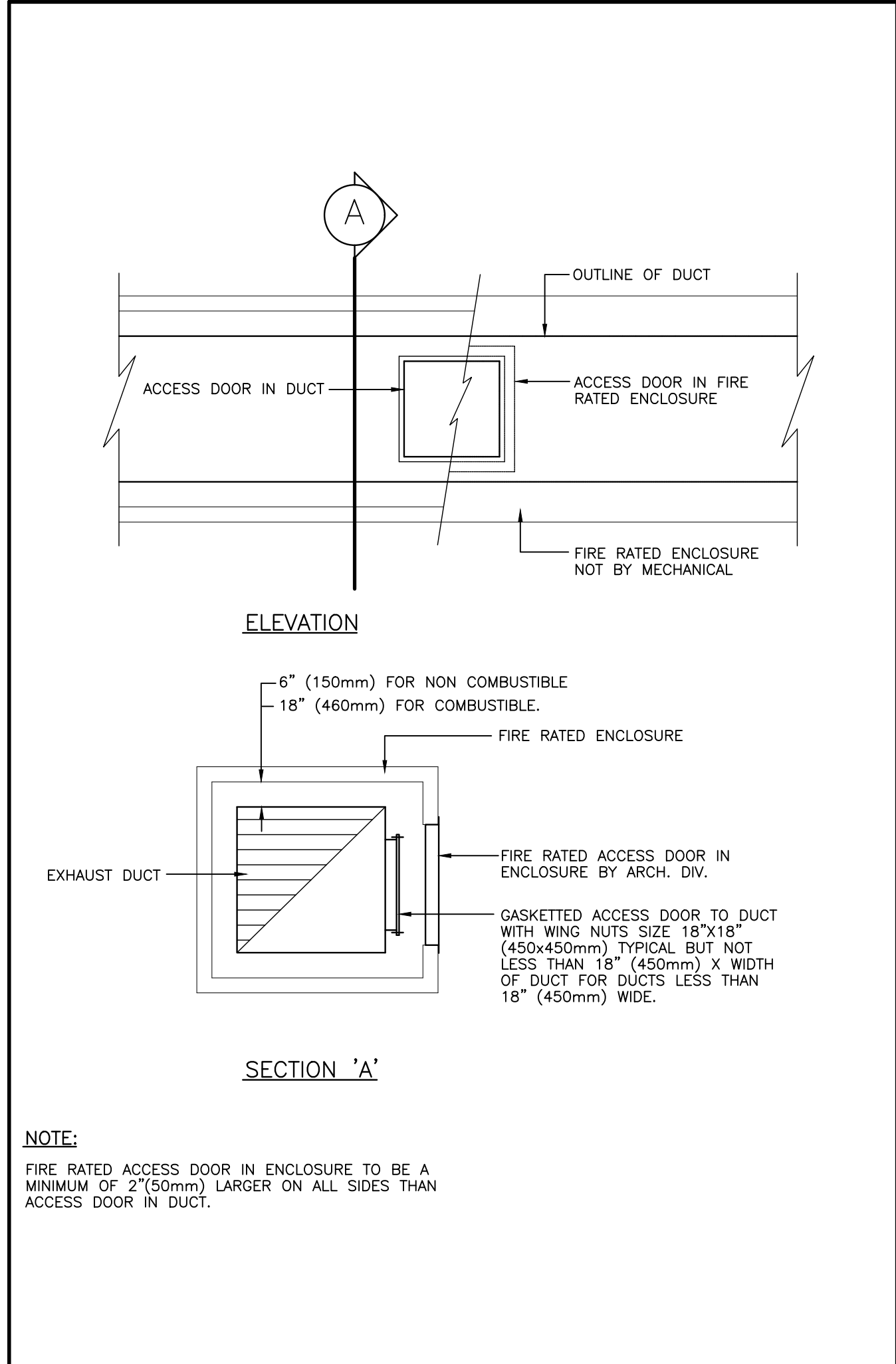
3 M004 DUCT DETAILS (MSD-840.05)



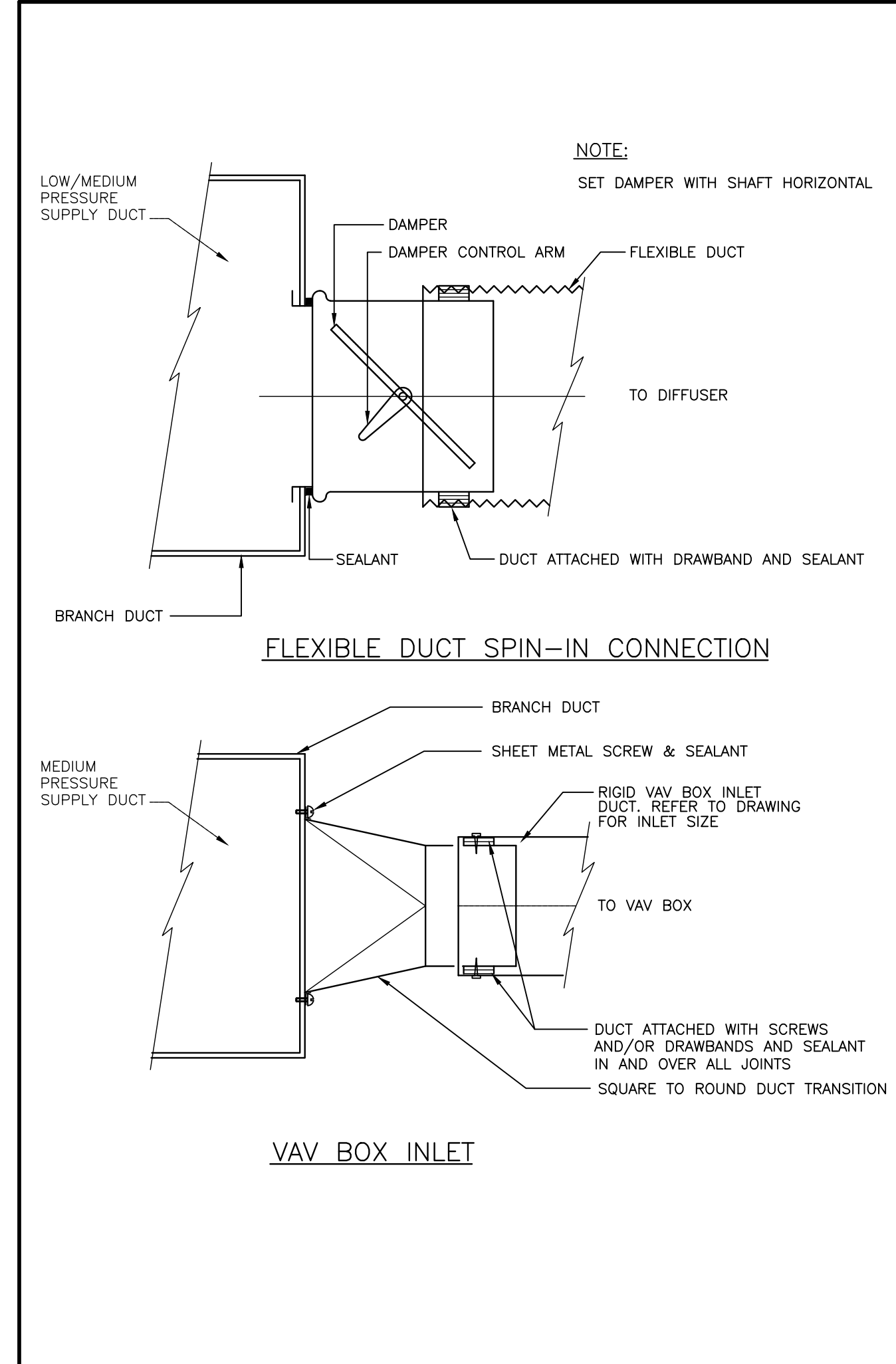
1 M004 INSULATED DUCT ON ROOF (MSD-824.02)



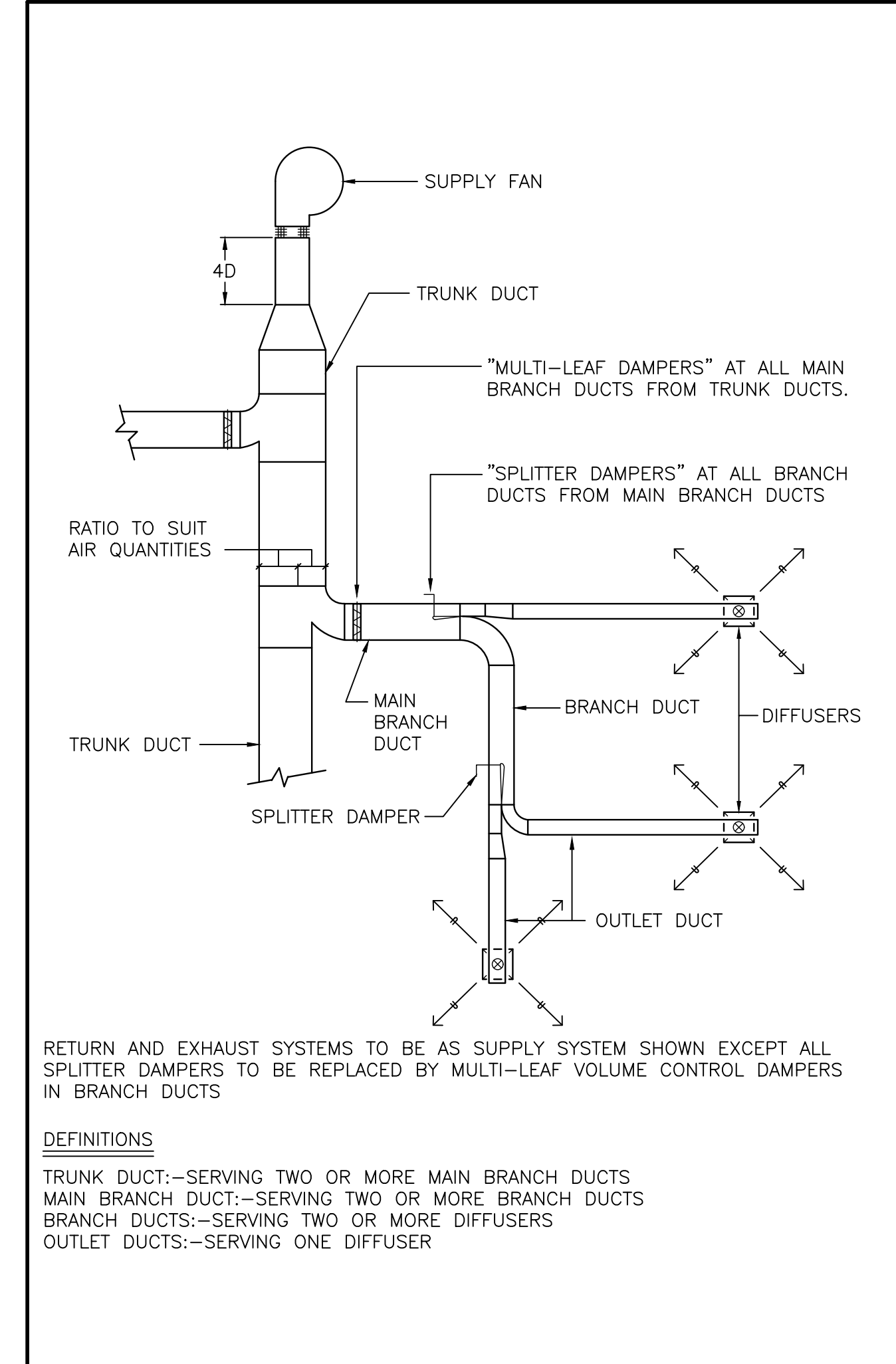
8 M004 COUNTER FLASHING AT EXTERIOR DUCTWORK ROOF PENETRATION (MSD-840.15)



6 M004 KITCHEN EXHAUST DUCT ACCESS DOOR (MSD-840.10)



4 M004 FLEXIBLE DUCT CONNECTIONS (MSD-840.06)



2 M004 BALANCING DAMPERS (MSD-840.03)

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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
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132 BURLIEGH STREET
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLIEGH STREET, APSLEY**

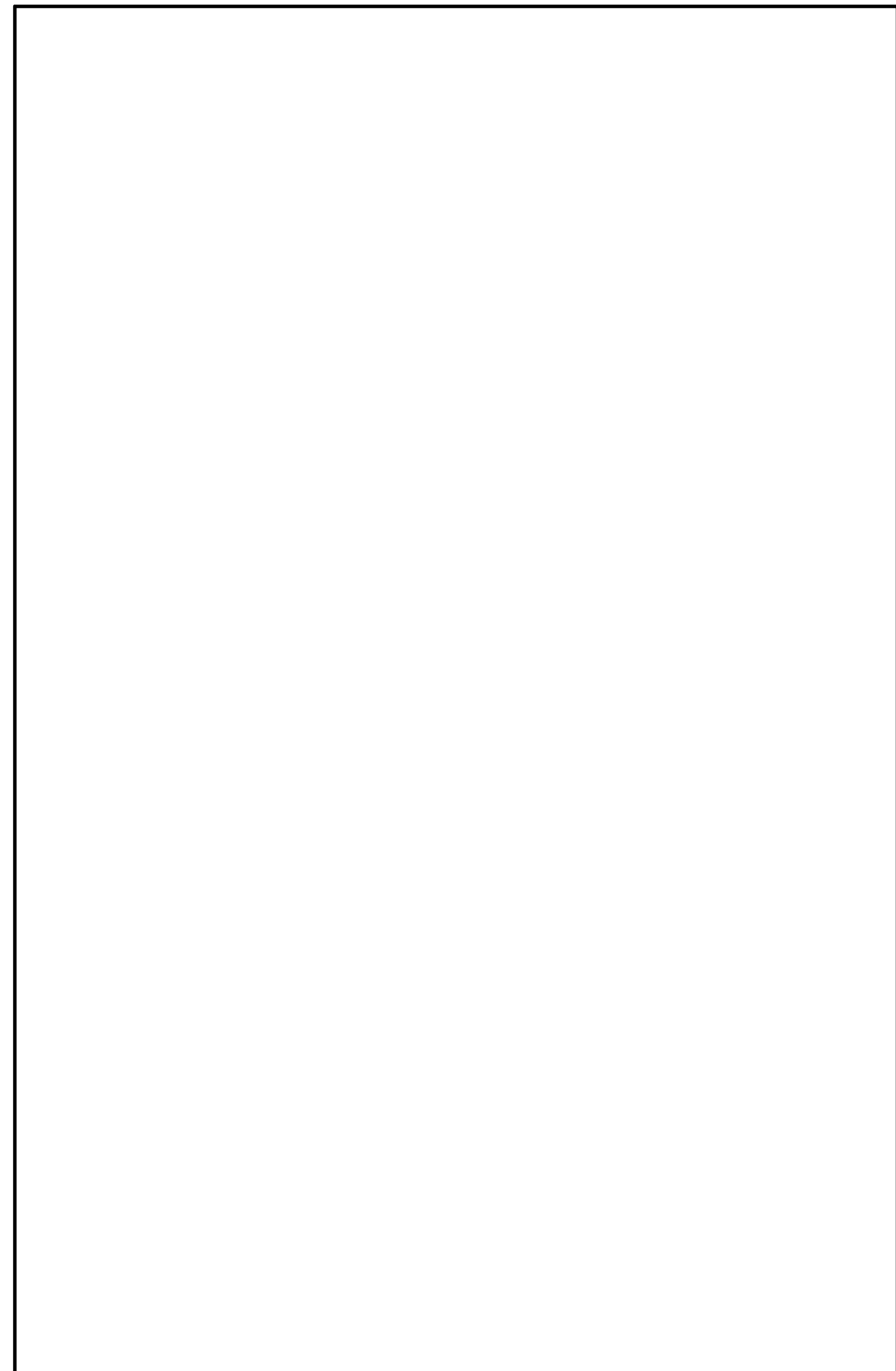
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**MECHANICAL STANDARD
DETAILS**

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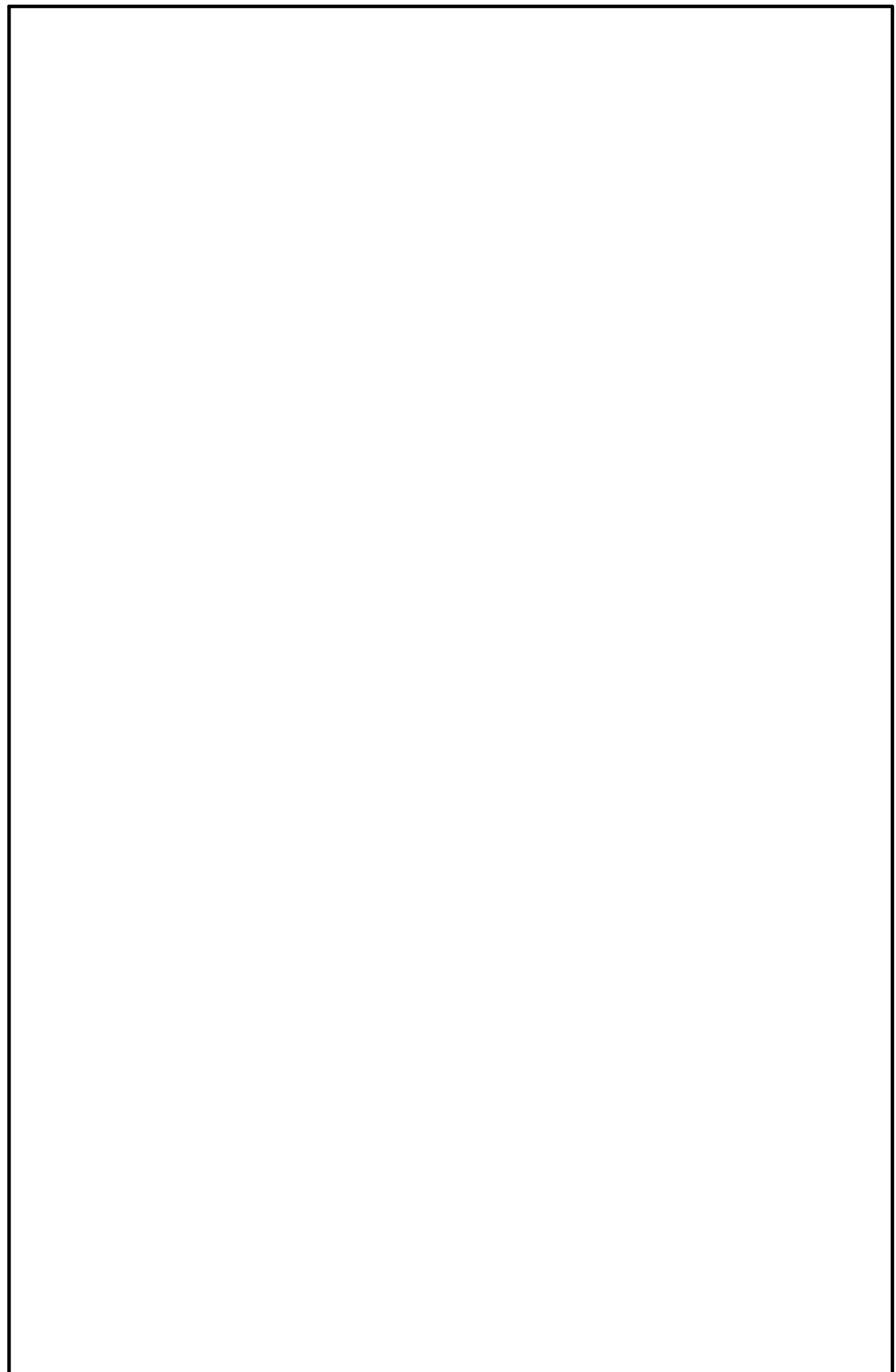
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PROJECT NUMBER
21376

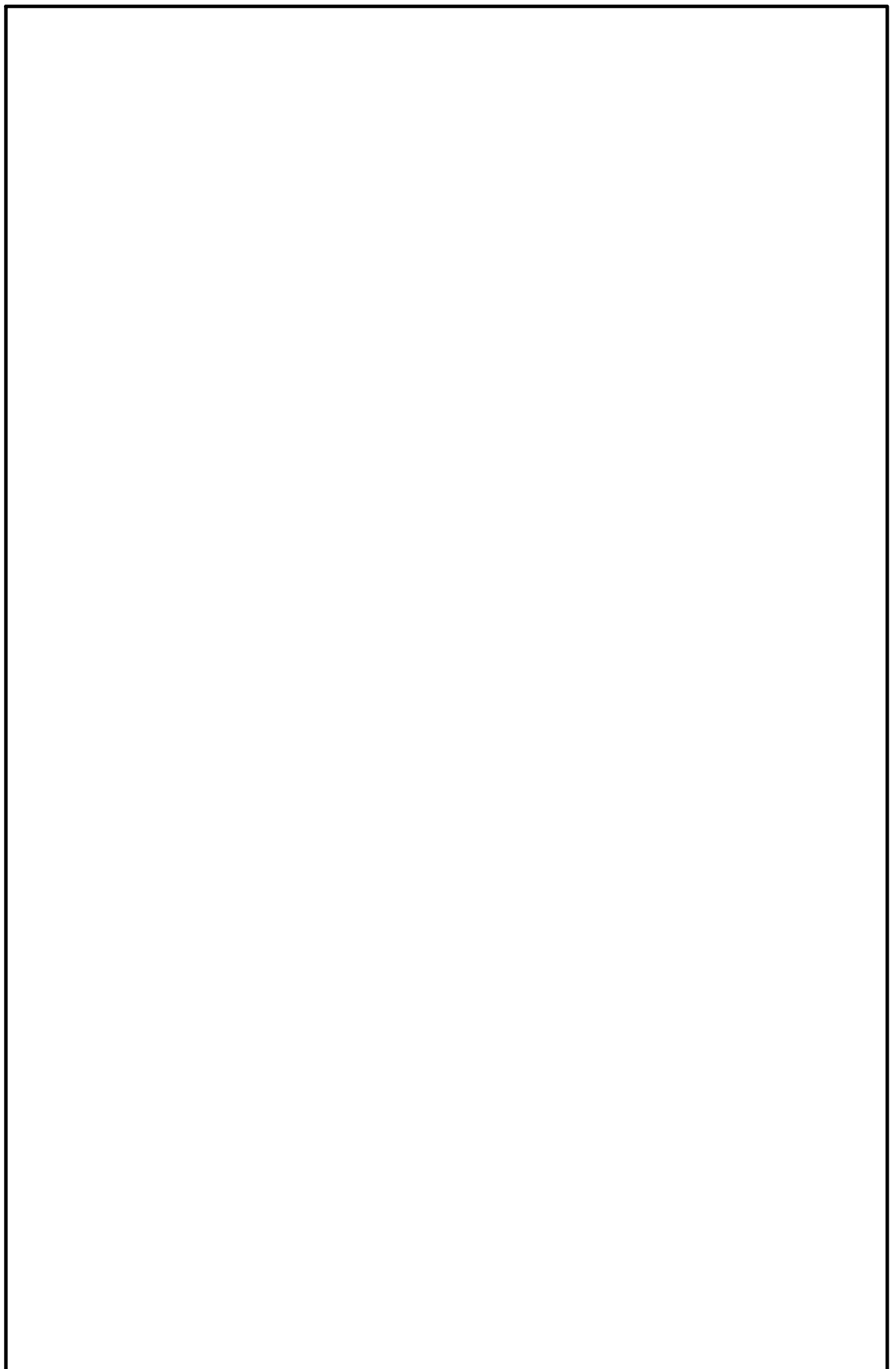
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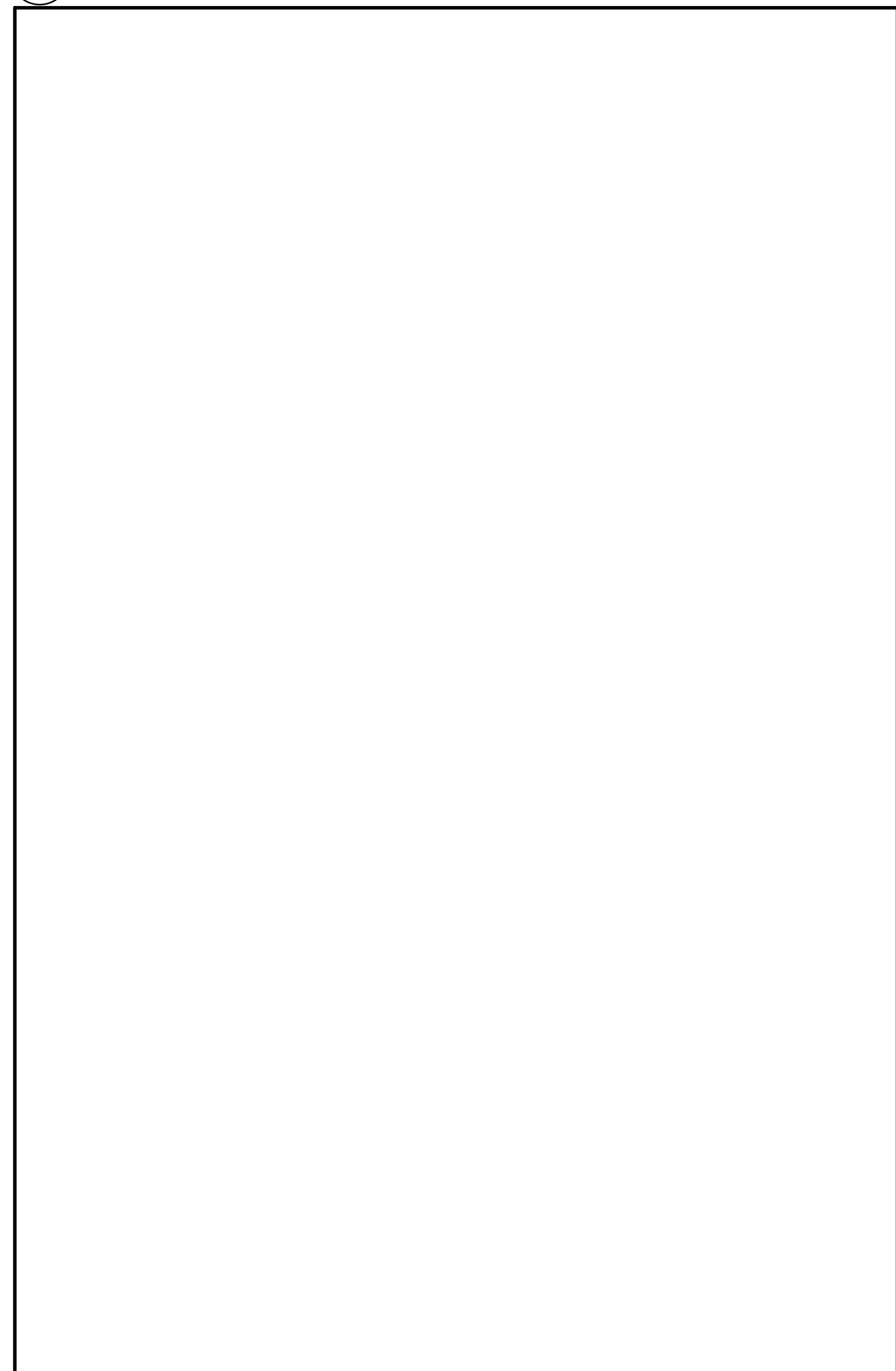
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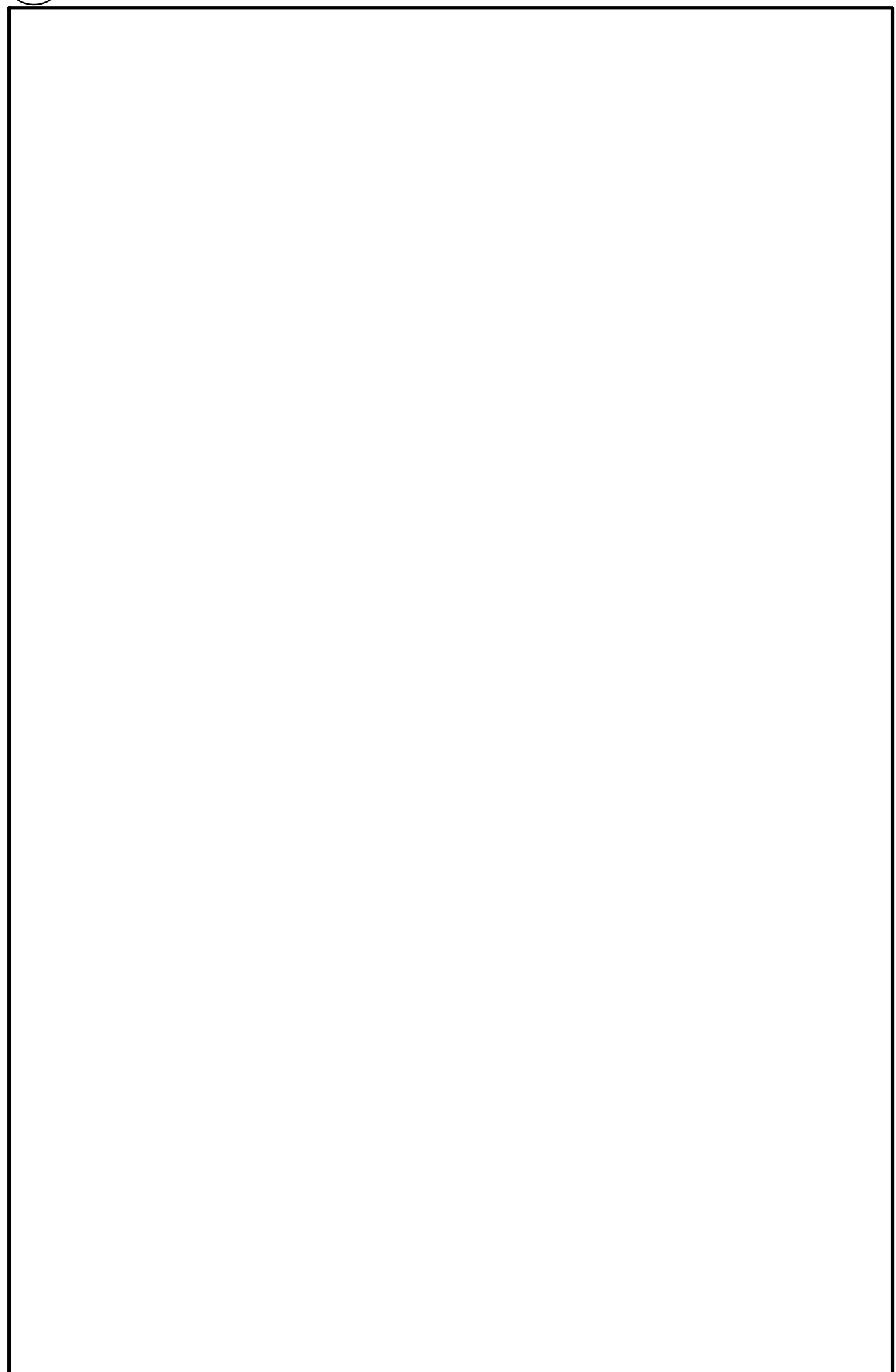
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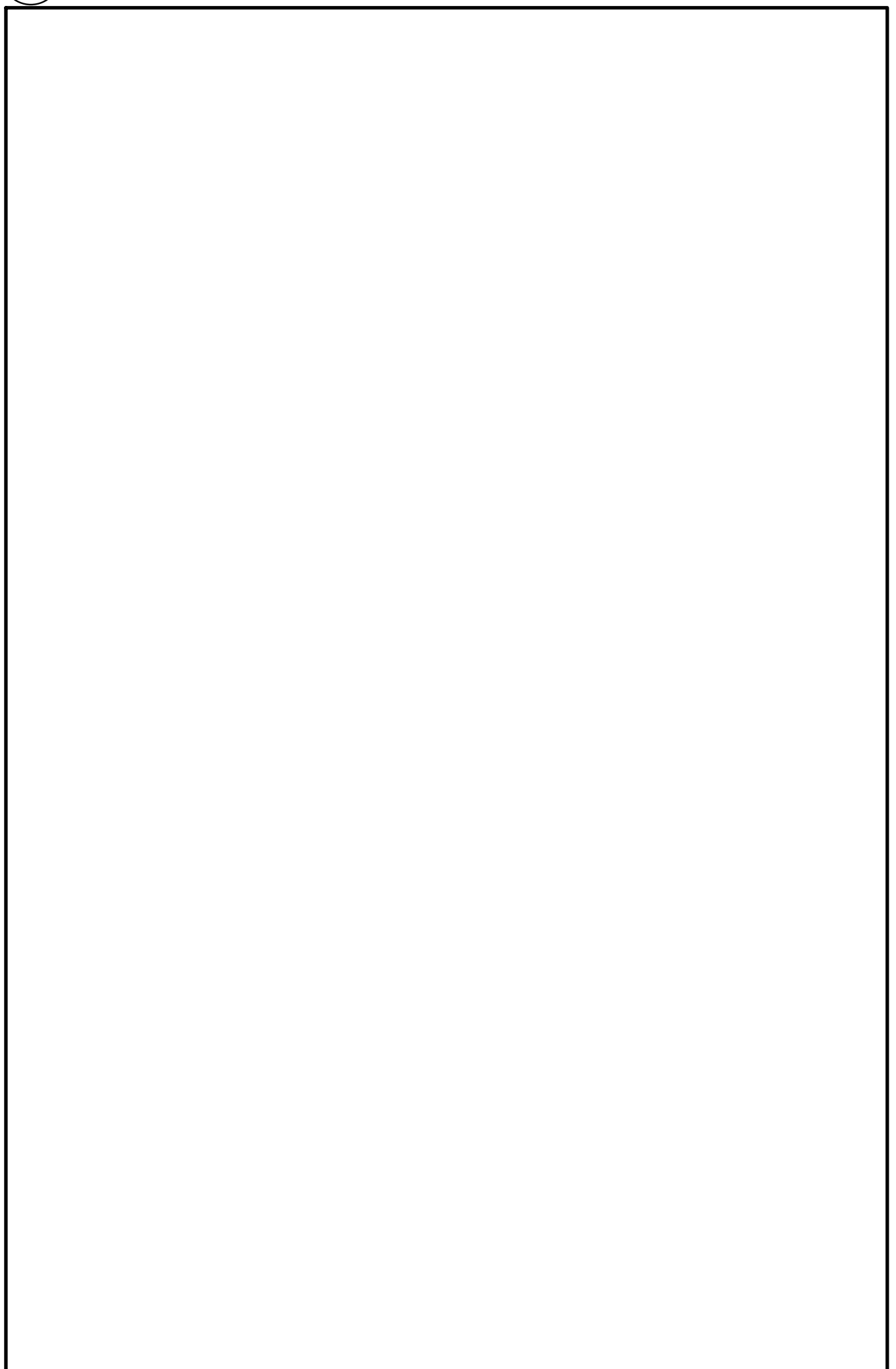
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M005



8 NOT USED
M005



6 NOT USED
M005



4 NOT USED
M005

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
	ELBOWS		PIPING SERVICE CONTINUES
	TEE		REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED
	BRANCH OFF BOTTOM OF MAIN		VENT PIPE REDUCER
	BRANCH OFF TOP OF MAIN		AIR QUANTITY C.F.M. (L/s)
	DIRECTION OF FLOW	NAMING OF EXISTING EQUIPMENT DENOTES EXISTING EQUIPMENT DESIGNATION FLOOR NUMBER SEQUENTIAL NUMBER EX-FC-12-01	
NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN			
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO REMAIN		EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN		EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN
NOTE: EXISTING EQUIPMENT SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.			
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO BE REMOVED		EXISTING CONCEALED SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED		EXISTING PENDANT SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING UPRIGHT SPRINKLER HEAD TO BE REMOVED/RELOCATED		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD TO BE REMOVED/RELOCATED
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

1 GENERAL SYMBOLS AND ABBREVIATIONS
(MSD-012.13)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER)
	FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER)
	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.)
	HORIZONTAL CLEANOUT		TEMPERED DOMESTIC HOT WATER
	FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS
	FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS VENT
	WATER CLOSET AS NOTED REFER TO SPECIFICATION FOR TYPES		VENT
	SINGLE COMPARTMENT KITCHEN SINK		SANITARY ABOVE GRADE OR FLOOR
	MOP SINK		SANITARY BELOW GRADE OR FLOOR
	DOUBLE COMPARTMENT SINK		GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)
	DRINKING FOUNTAIN		GLOBE VALVE
	URINAL		BALL VALVE
	WALL HUNG LAVATORY		PENDANT SPRINKLER HEAD
	WET SPRINKLER		DRY PENDANT SPRINKLER HEAD
	DRY SPRINKLER		UPRIGHT SPRINKLER HEAD
	FIRE HOSE CABINET AND TYPE		CONCEALED SPRINKLER HEAD
	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE		NON-FREEZE SPRINKLER HEAD
	FIRE EXTINGUISHER AND TYPE		HIGH TEMPERATURE SPRINKLER HEAD
	FIRE EXTINGUISHER CABINET AND TYPE		CHEMICAL SPRINKLER HEAD
	FIRE REEL		SIDEWALL SPRINKLER HEAD
	WATER METER		WINDOW SPRINKLER HEAD
	BACK FLOW PREVENTOR	NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS	

2 GENERAL SYMBOLS AND ABBREVIATIONS
(MSD-012.14)

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4	ISSUED FOR CONSTRUCTION	2022.07.15	
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maclennan jaunkalns miller architects
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toronto ontario m5x 3c1
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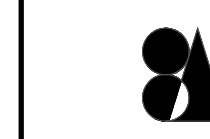
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18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416-593-5300 FAX 416-593-4840

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1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416-487-8151



Smith + Andersen

1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 8104 smthandanderson.com

SAYERS FOOD LIMITED

132 BURLINGHAM STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY

DRAWING TITLE
MECHANICAL STANDARD
DETAILS

SCALE
1:100

DATE
JUNE 16, 2021

PROJECT NUMBER
21376

DRAWING NUMBER

M005

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MJMA
maclean jaunkains miller architects

425 adelaide street west level 6
toronto ontario m5v 3c1
416.593.6796
www.mjmachitects.com

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CIVIL ENGINEERS

18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS

134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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TEL 416.487.8151



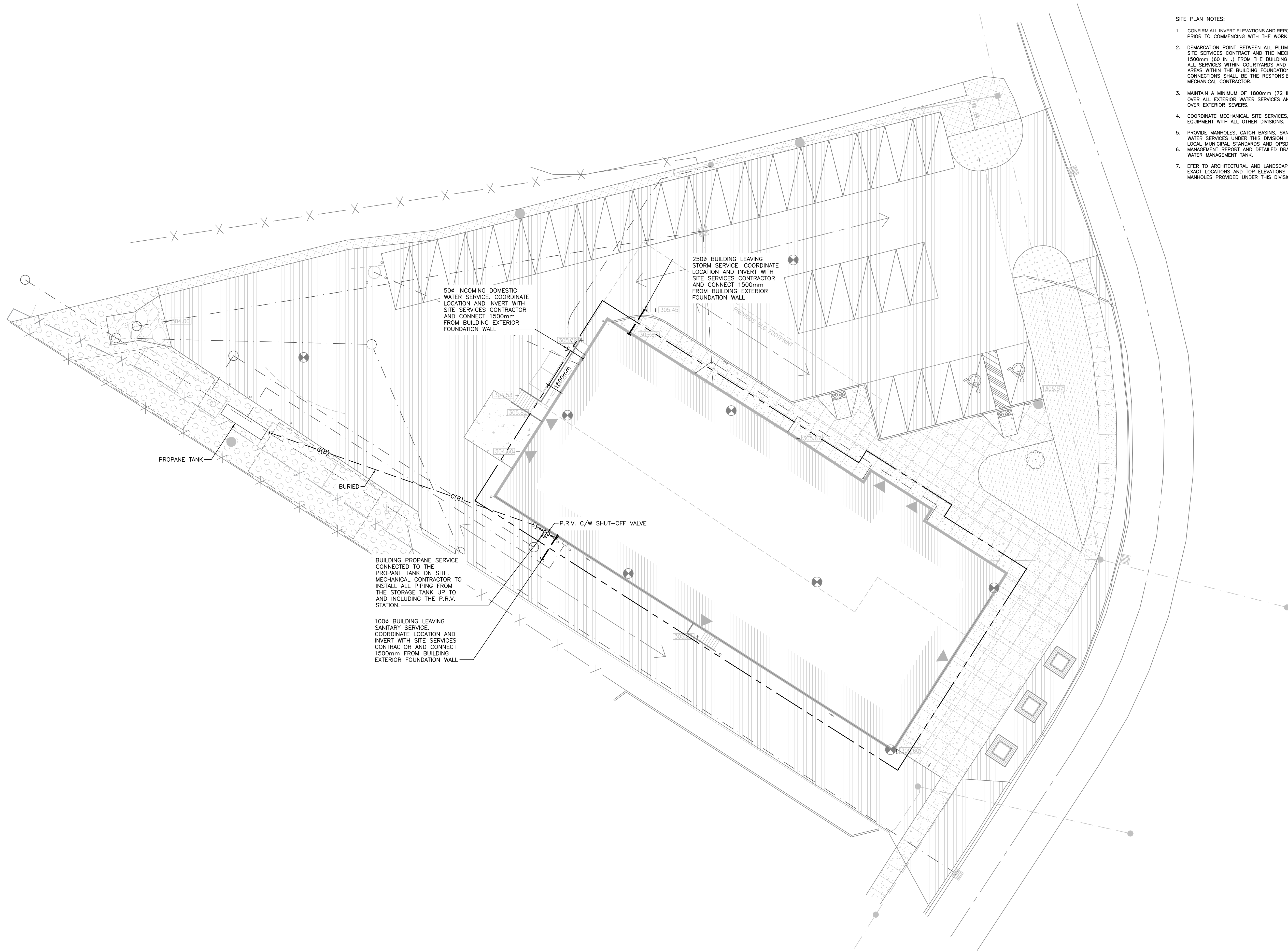
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416.487.8151 f 416.487.8104 smthanderson.com

GENERAL NOTES:

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- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

SITE PLAN NOTES:

- CONFIRM ALL INVERT ELEVATIONS AND REPORT ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
- DEMARCATION POINT BETWEEN ALL PLUMBING AND DRAINAGE SITE SERVICES CONTRACT AND THE MECHANICAL CONTRACT IS 1500mm (60 IN.) FROM THE BUILDING PERIMETER. PROVIDE ALL SERVICES WITHIN COURTYARDS AND SOODED OR PAVED AREAS WITHIN THE BUILDING FOUNDATION WALL. ALL FINAL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- MAINTAIN A MINIMUM OF 1800mm (72 IN.) OF GROUND COVER OVER ALL EXTERIOR WATER SERVICES AND 1200MM (48 IN.) OVER EXTERIOR SEWERS.
- COORDINATE MECHANICAL SITE SERVICES, PIPING, AND EQUIPMENT WITH ALL OTHER DIVISIONS.
- PROVIDE MANHOLES, CATCH BASINS, SANITARY SEWERS AND WATER SERVICES UNDER THIS DIVISION IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND CPD SERIES STANDARDS. MANAGEMENT REPORT AND DETAILED DRAWING OF THE STORM WATER MANAGEMENT TANK.
- REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR THE EXACT LOCATIONS AND TOP ELEVATIONS OF CATCHBASINS AND MANHOLES PROVIDED UNDER THIS DIVISION.



SAYERS FOOD LIMITED

132 BURLEIGH STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE
SITE PLAN MECHANICAL

SCALE
1:200

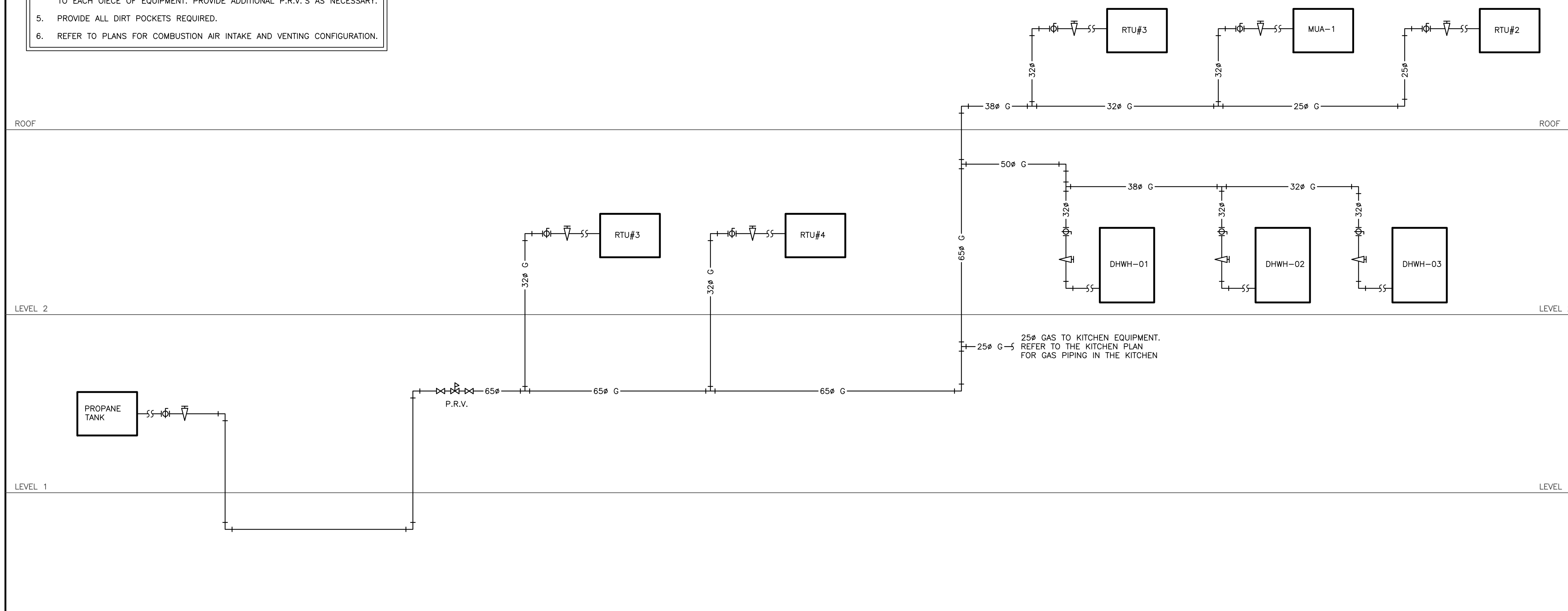
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JUNE 16, 2021

PROJECT NUMBER
21376

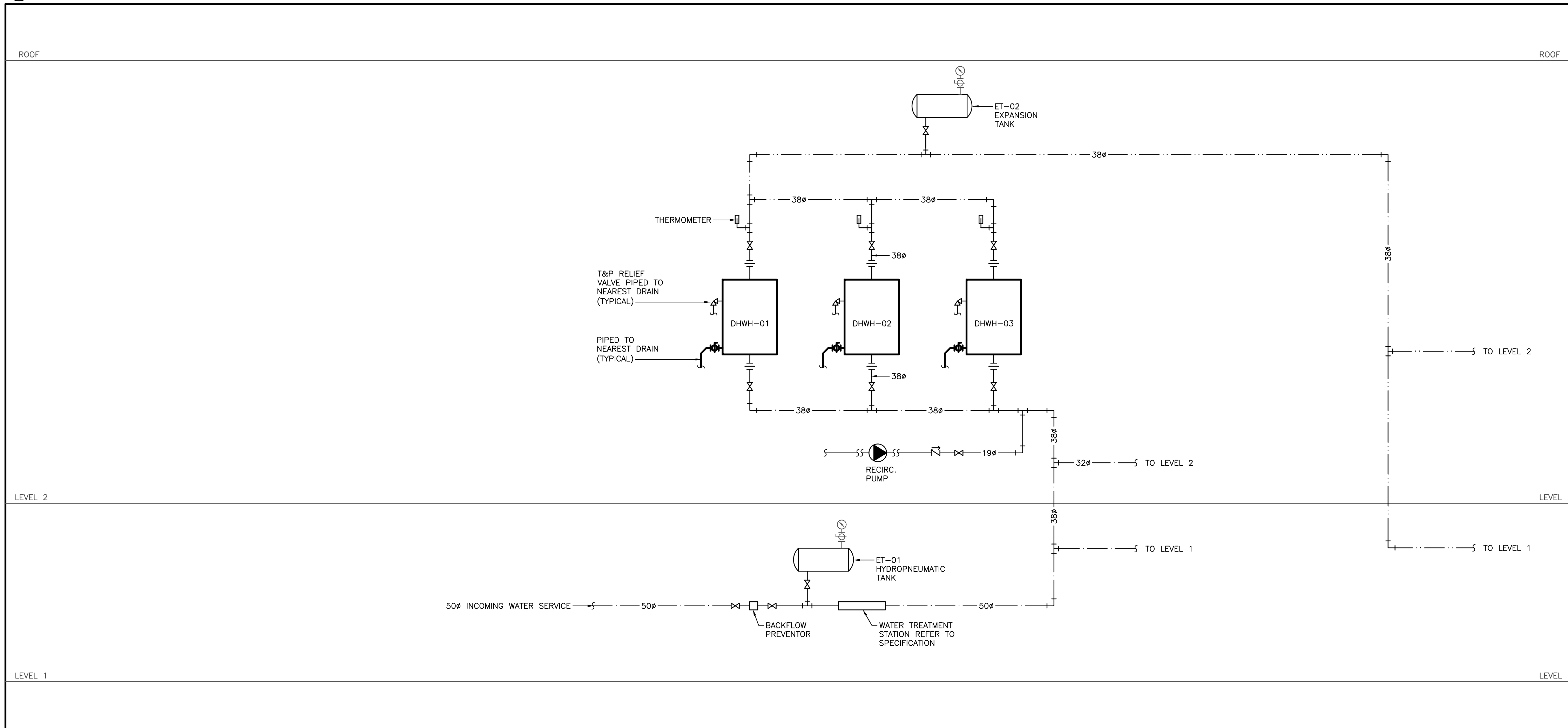
DRAWING NUMBER
M100

NOTES:

1. REFER TO STANDARD DETAILS FOR EQUIPMENT INSTALLATION REQUIREMENTS.
2. GAS PRESSURE DOWNSTREAM OF P.R.V.'S TO BE 2 kPa (BIN. W.G.) UNLESS SPECIFIED OTHERWISE.
3. VENT ALL P.R.V.'S TO ATMOSPHERE.
4. MECHANICAL CONTRACTOR SHALL ROUGH-IN AND MAKE FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. PROVIDE ADDITIONAL P.R.V.'S AS NECESSARY.
5. PROVIDE ALL DIRT POCKETS REQUIRED.
6. REFER TO PLANS FOR COMBUSTION AIR INTAKE AND VENTING CONFIGURATION.



1 GAS SCHEMATIC



2 DOMESTIC WATER SCHEMATIC

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2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

SCHEMATIC NOTES:

1. READ SCHEMATICS IN CONJUNCTION WITH FLOOR PLANS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
2. VERIFY STATIC AND OPERATING PRESSURES AT ALL POINTS IN THE SYSTEMS AND ENSURE PIPING, FITTINGS, COMPONENTS, ETC. ARE SUITABLE FOR THESE CONDITIONS.
3. HANGERS, SUPPORTS, ANCHORS, GUIDES AND RESTRAINTS, WHERE INDICATED, ARE SHOWN FOR GUIDANCE ONLY. ENSURE ALL COMPONENTS ARE LOCATED AND DESIGNED TO WITHSTAND ALL STATIC AND DYNAMIC FORCES. PROVIDE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER. REFER TO THE SPECIFICATION FOR DETAILS. PROVIDE INTERMEDIATE GUIDES AS REQUIRED.
4. PROVIDE TYPE CV-1 CONTROL VALVES UNLESS INDICATED OTHERWISE.

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maclennan jaunkains miller architects
 425 adelade street west level 6
 toronto ontario m5v 3c1
 416 593 6796
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 CIVIL ENGINEERS

18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
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1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151



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1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
 416 487 8151 f 416 487 8104 smitandanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE

MECHANICAL SCHEMATICS

SCALE

N.T.S.

DATE

JUNE 16, 2021

PROJECT NUMBER

21376

DRAWING NUMBER

M200

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maclennan jaunkains miller architects
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 toronto ontario m5v 3c1
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 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
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 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151



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 416 487 8151 f 416 487 8104 smthandanderson.com

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132 BURLEIGH STREET
 t: 705.656.4531
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NORTH ARROW	SEAL
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PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

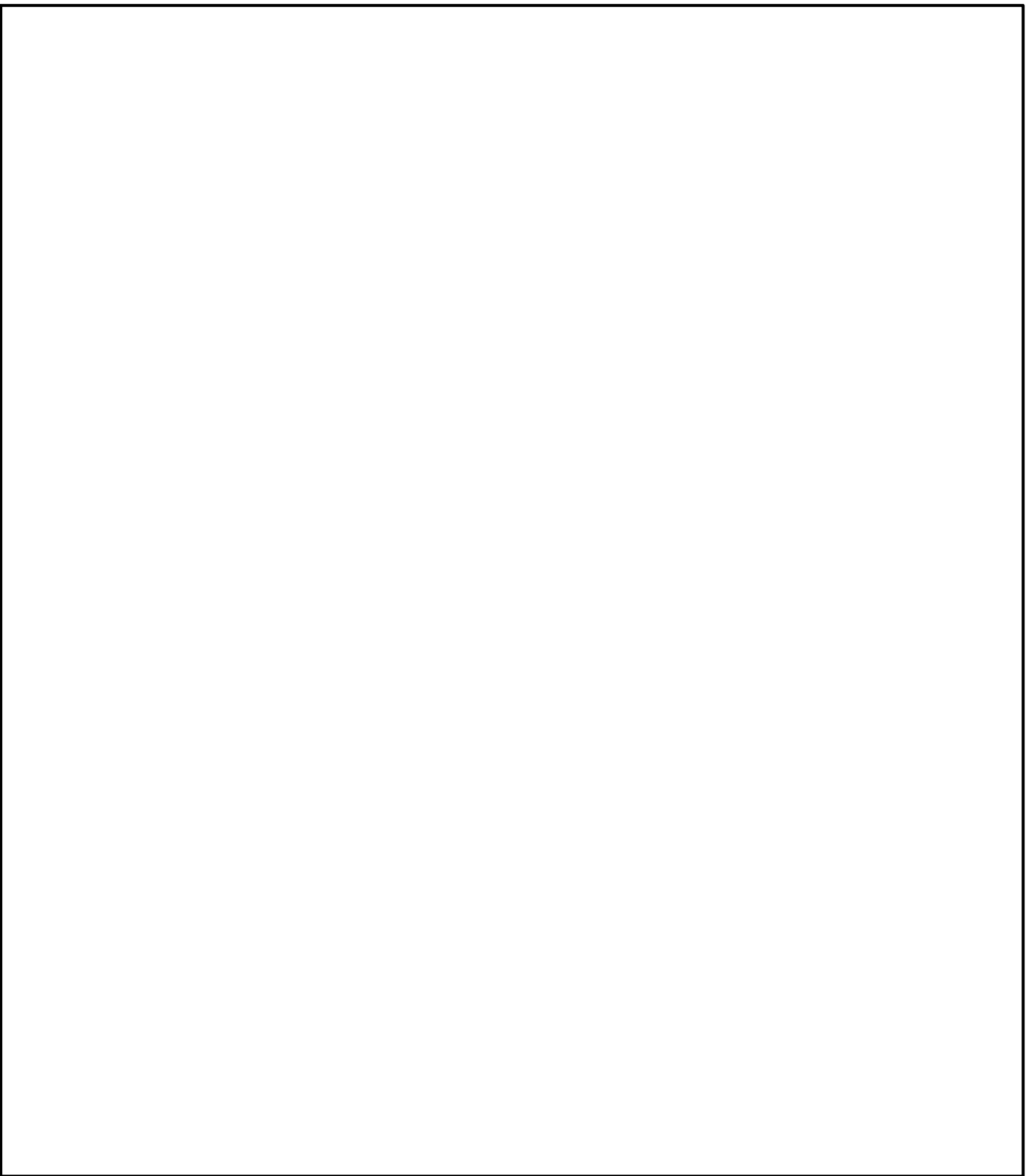
DRAWING TITLE
PLUMBING SCHEMATICS

SCALE
 N.T.S.

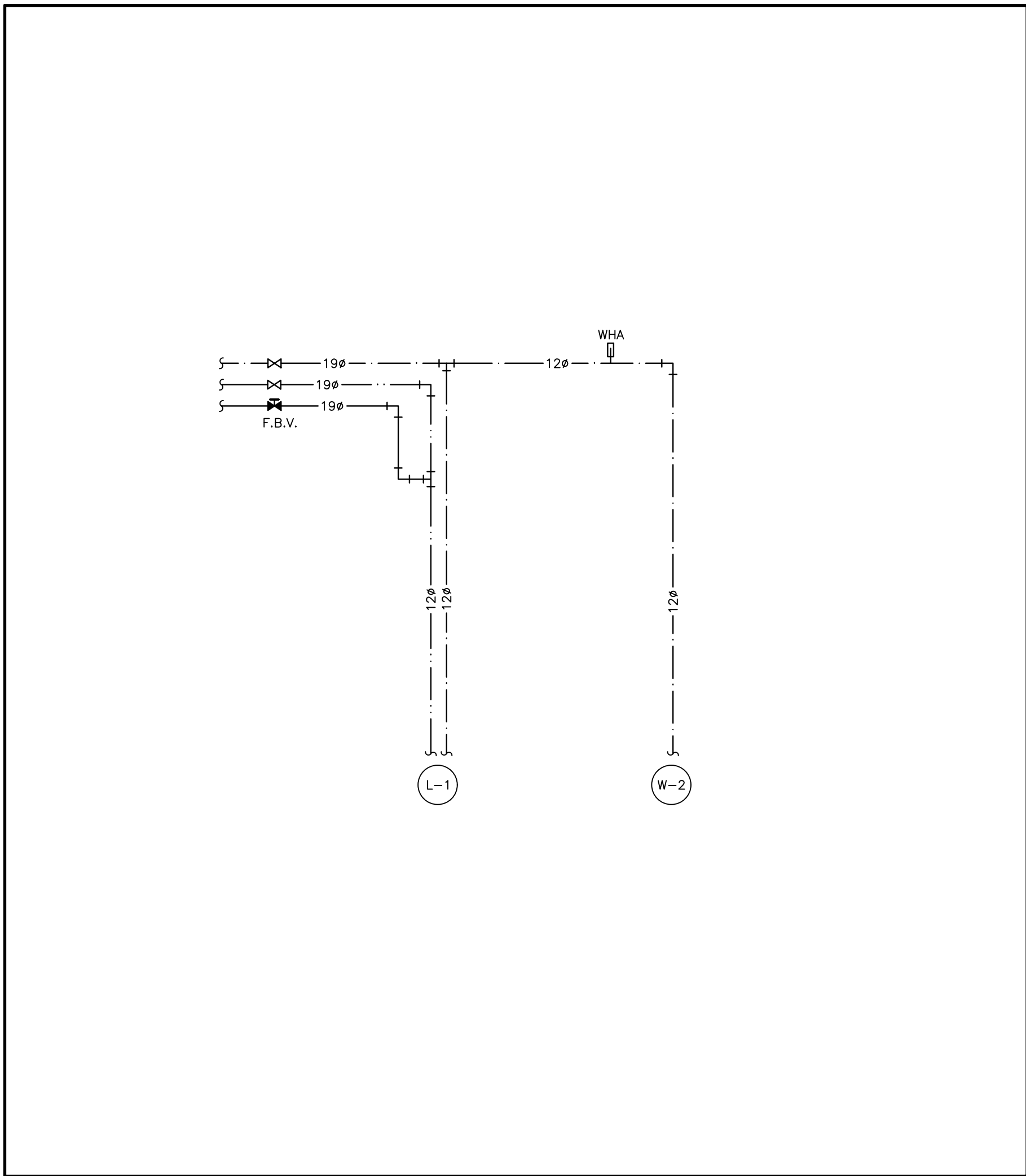
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PROJECT NUMBER
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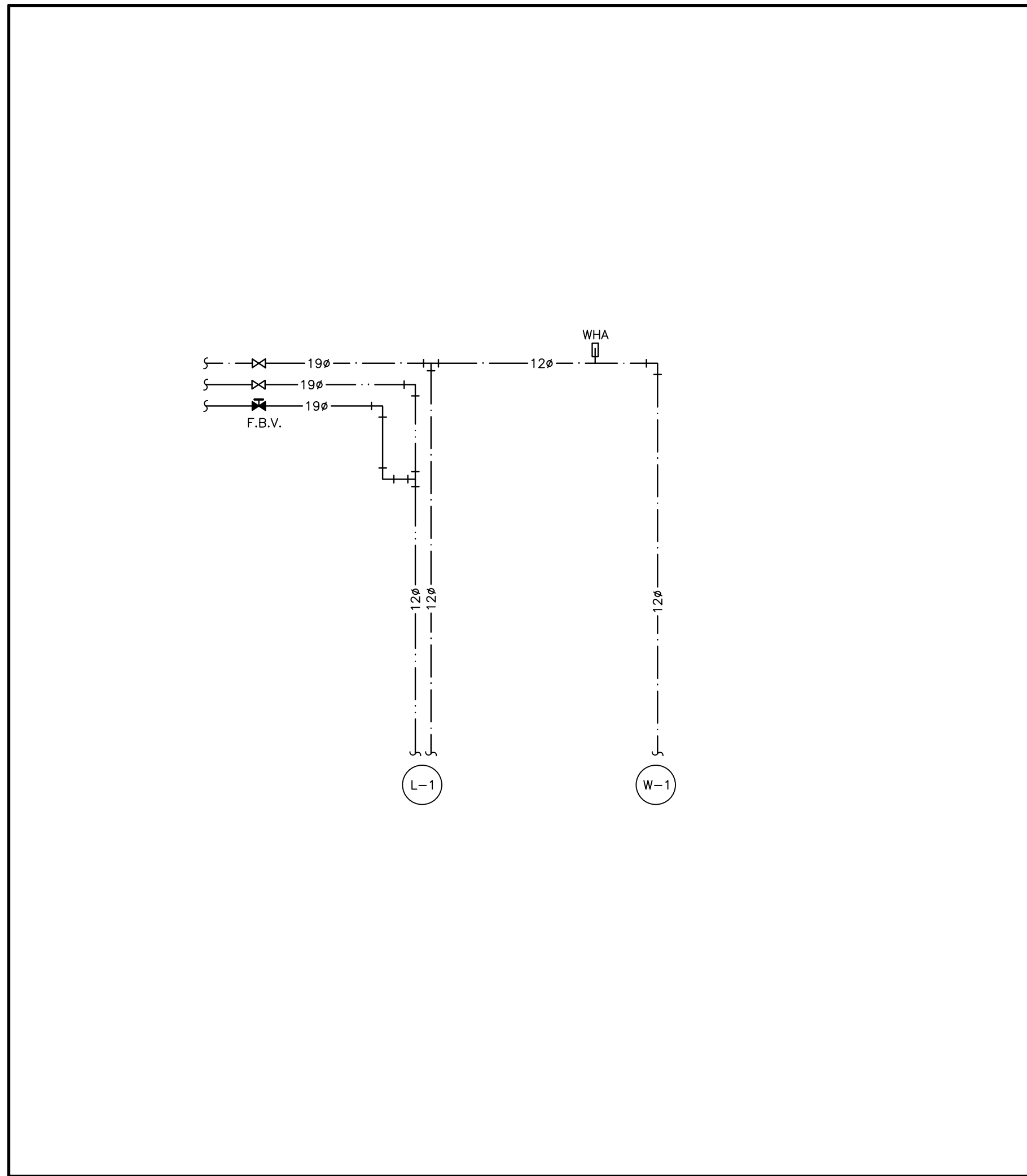
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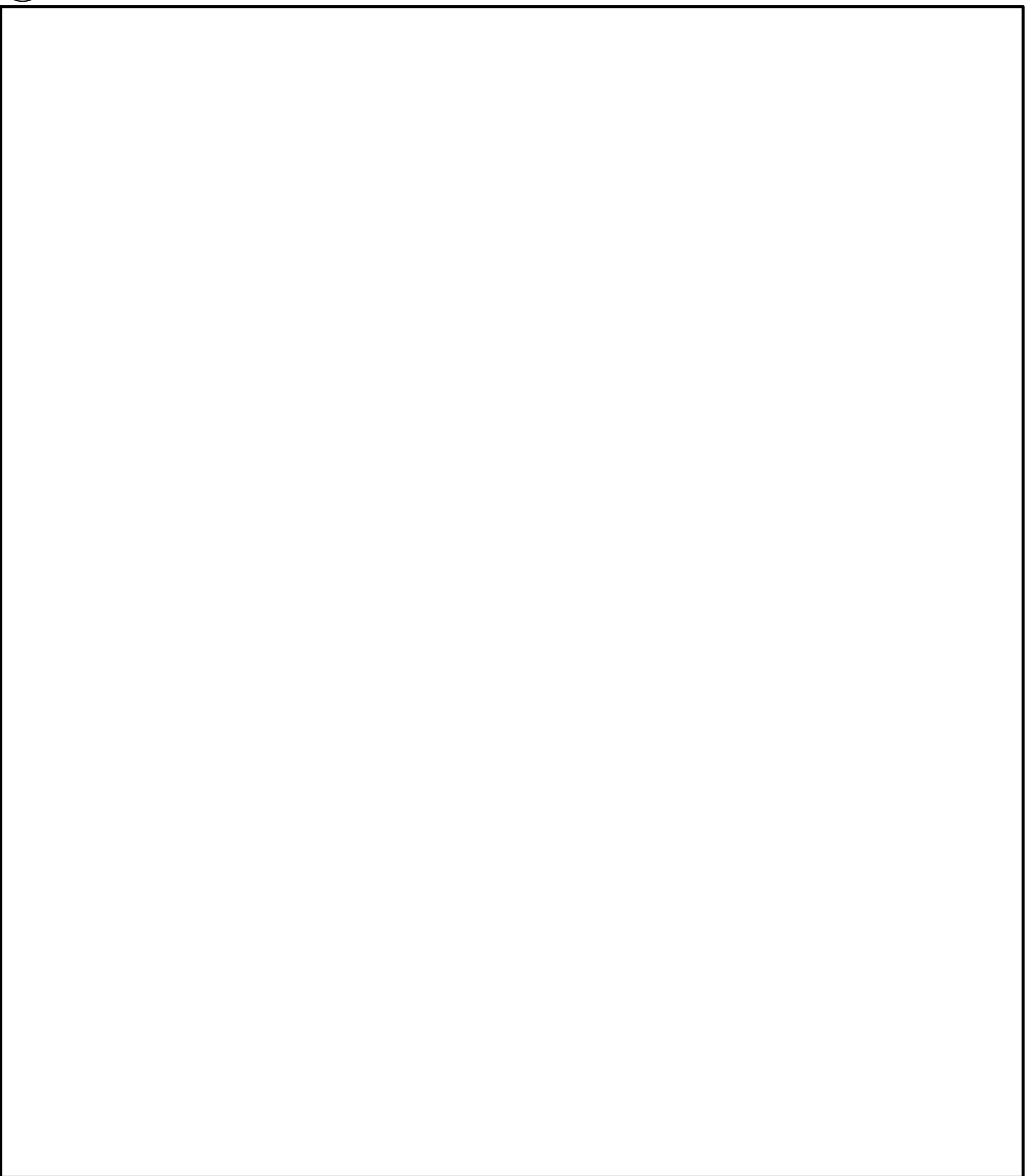
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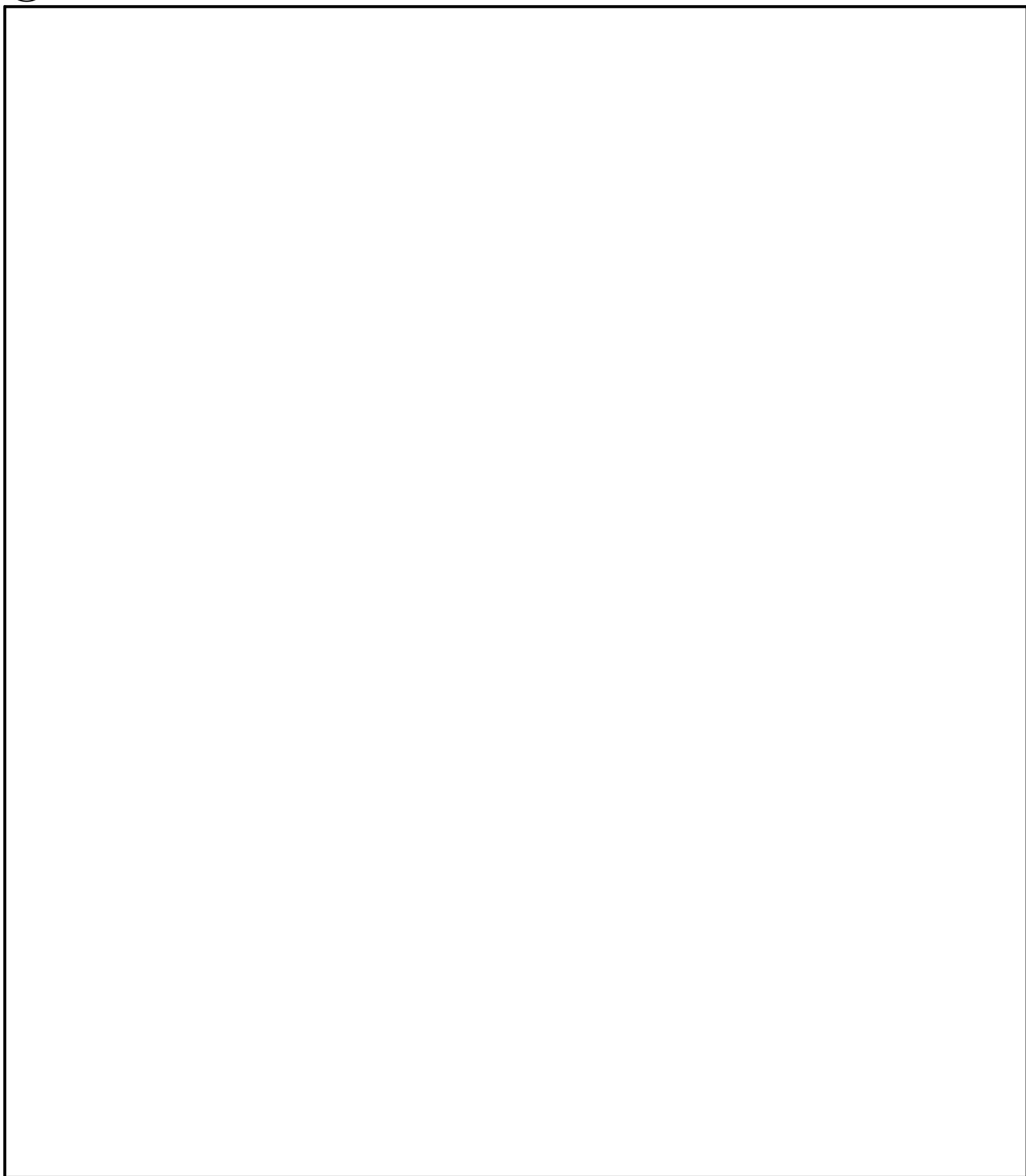
3 BARRIER FREE WASHROOM
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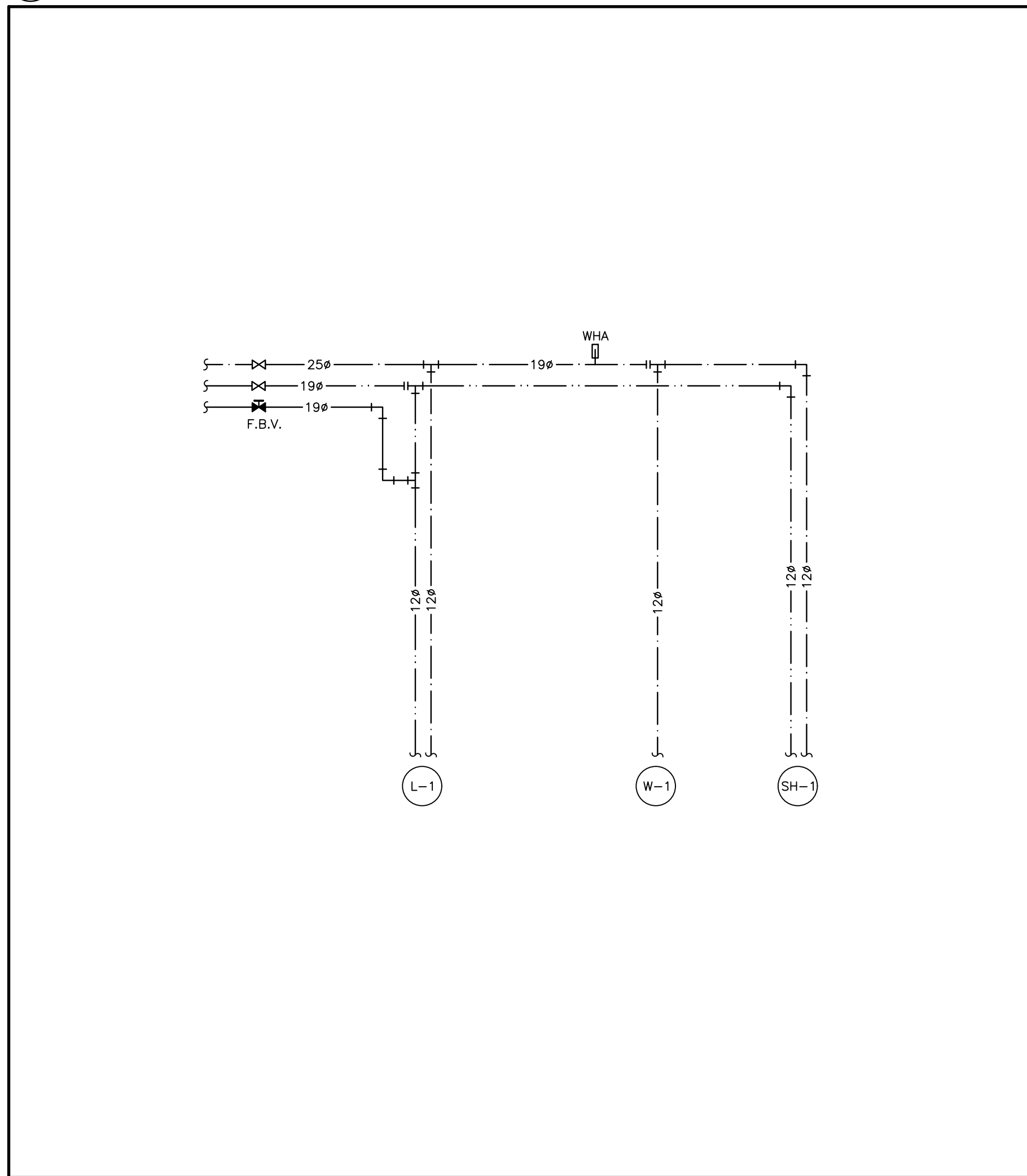
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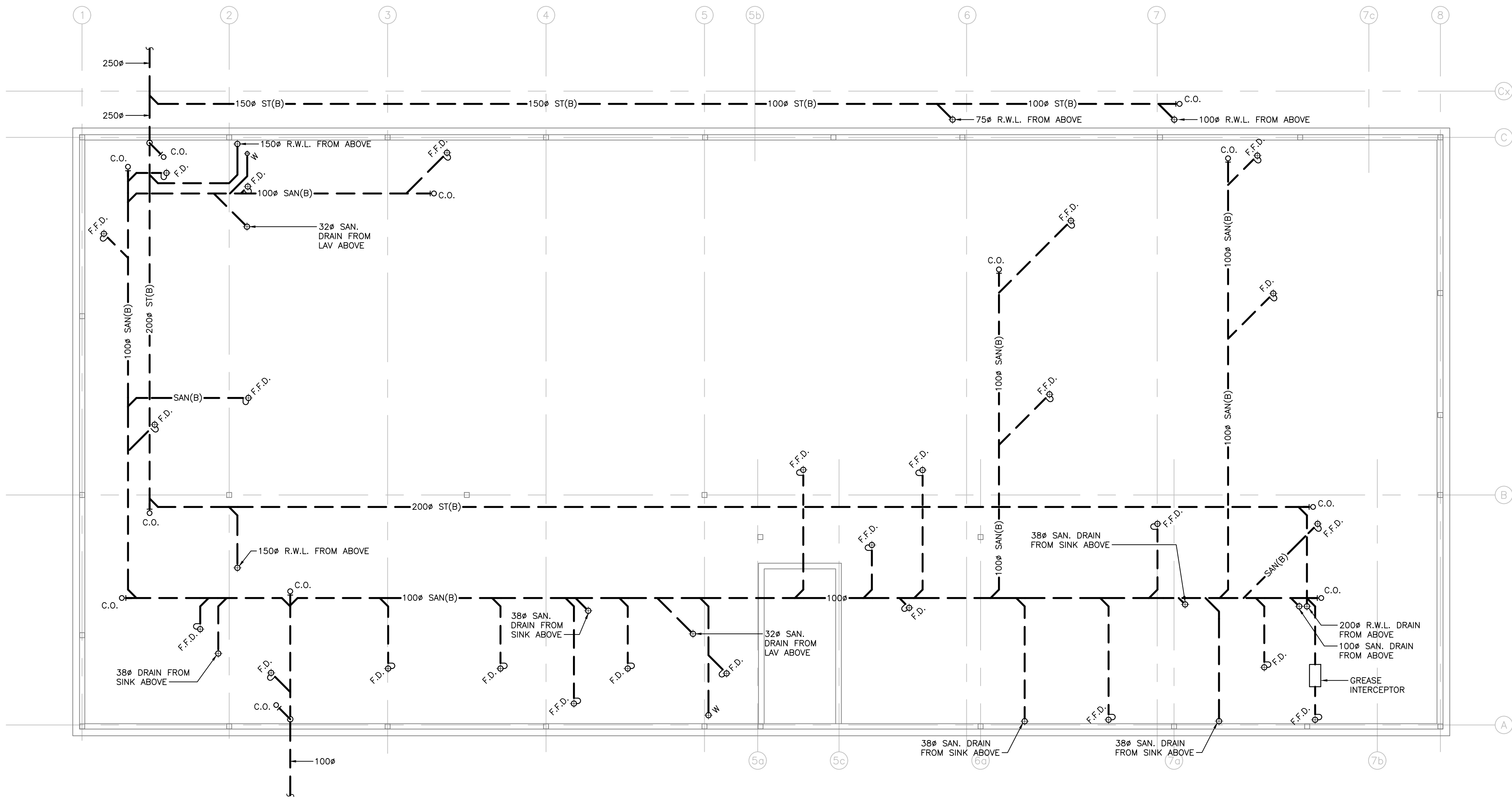
6 NOT USED
 M201



4 NOT USED
 M201



2 WASHROOM WITH SHOWER
 M201



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PLUMBING AND DRAINAGE NOTES:

- PROVIDE MINIMUM 75mm (3 IN.) FOR UNDER GROUND SANITARY DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE APPROVED BACK FLOW PREVENTION FOR ALL TRAP PRIMER SYSTEMS.
- PROVIDE MINIMUM 100mm (4 IN.) FOR UNDER GROUND DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE MINIMUM 19mm (3/4 IN.) DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES UNLESS INDICATED OTHERWISE.
- INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURAL STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.
- HEAT TRACE THE ENTIRE SERVICE TO BE PROTECTED FROM FREEZING IN ALL AREAS INDICATED ON THE DRAWINGS AND NOTED IN THE SPECIFICATIONS. PROVIDE HEAT TRACING TO ACCOMMODATE ALTERATIONS IN THE PIPE LAYOUT DUE TO INTERFERENCES OR OTHER INSTALLATION REQUIREMENTS. CONNECT HEAT TRACING CIRCUIT TO THE ELECTRICAL POWER LOCATIONS INDICATED ON THE DRAWINGS OR THE NEAREST CIRCUIT AVAILABLE. COORDINATE WITH ELECTRICAL DIVISION.
- PROVIDE SHUT-OFF VALVES ON ALL MAIN RISERS AND AT EACH CONNECTION TO EQUIPMENT.
- PROVIDE COMPLETE VENTING SYSTEMS IN ACCORDANCE WITH THE PLUMBING OR BUILDING CODE.
- HEAT TRACE ALL PIPING WITHIN UNHEATED SPACES SUCH AS PARKING LEVELS, SOFFITS AND WITHIN WALLS WHERE FREEZING MAY OCCUR.

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CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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 TORONTO, ONTARIO, M5V 2H2
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SAYERS FOOD LIMITED

132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE

FOUNDATION PLAN
 PLUMBING AND DRAINAGE

SCALE

1:100

DATE

JUNE 16, 2021

PROJECT NUMBER

21376

DRAWING NUMBER

M300

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REVISIONS AND ISSUES

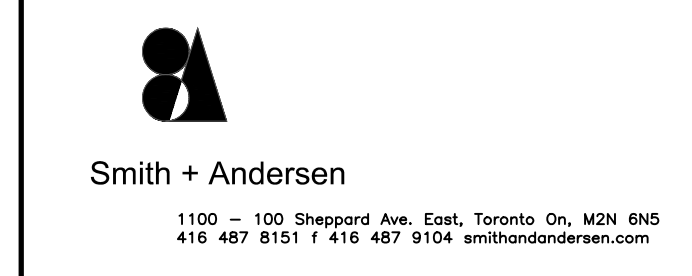
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 425 adelade street west level 6
 toronto ontario m5v 3c1
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 www.mjmaarchitects.com

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 CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416-593-5300 FAX 416-593-4840

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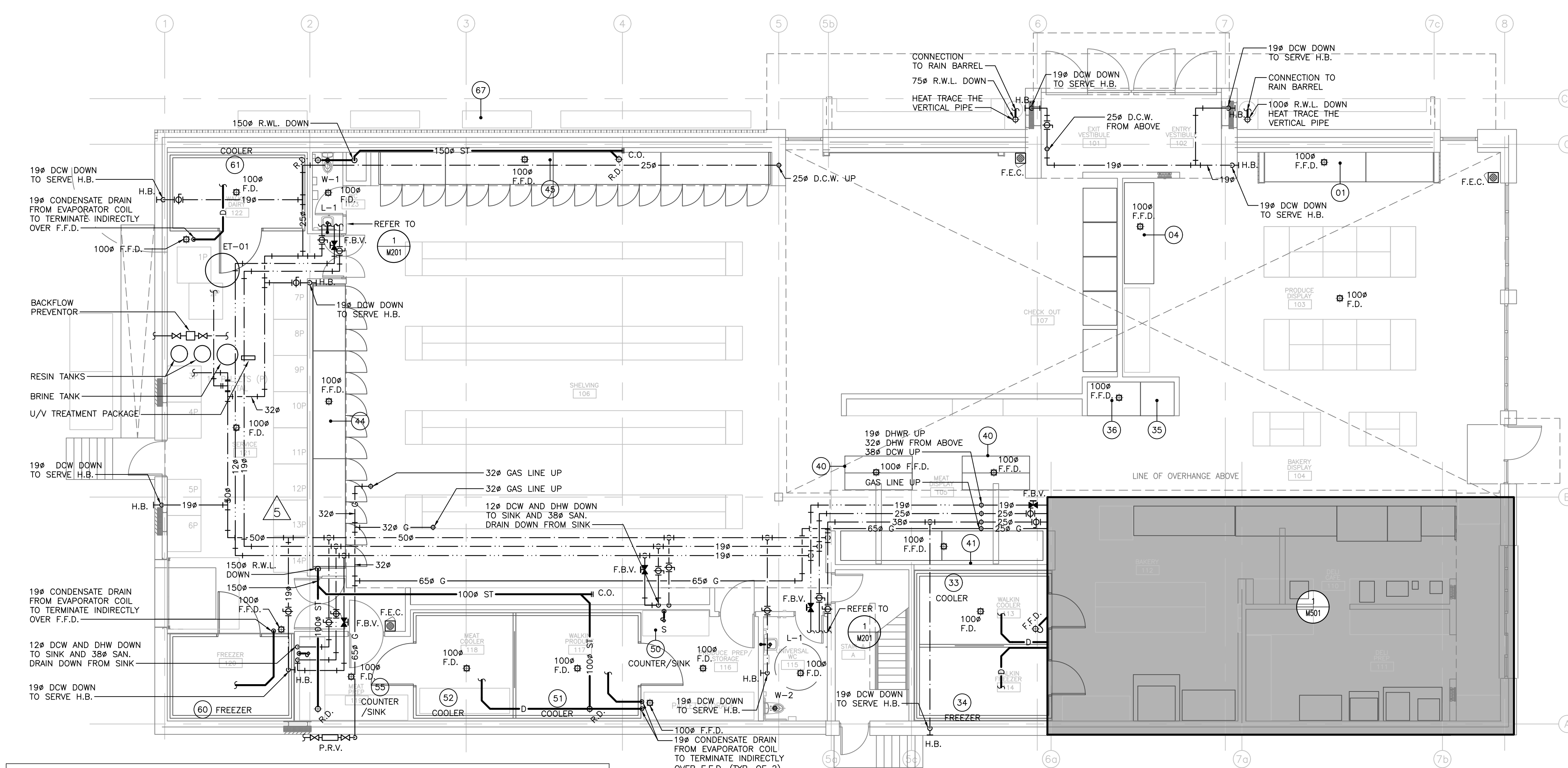


GENERAL NOTES:

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- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

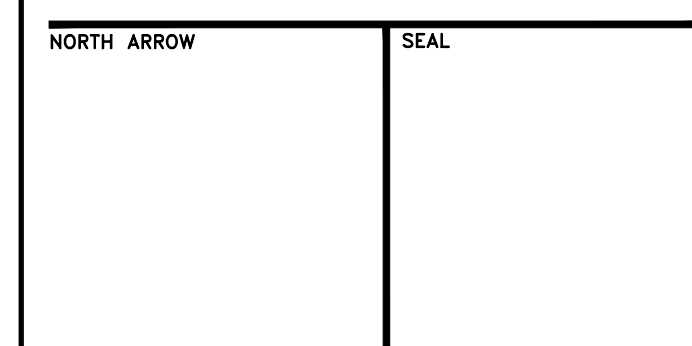
PLUMBING AND DRAINAGE NOTES:

- PROVIDE MINIMUM 75mm (3 IN.) FOR UNDER GROUND SANITARY DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE APPROVED BACK FLOW PREVENTION FOR ALL TRAP PRIMER SYSTEMS.
- PROVIDE MINIMUM 100mm (4 IN.) FOR UNDER GROUND STORM DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE MINIMUM 19mm (3/4 IN.) DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES UNLESS INDICATED OTHERWISE.
- INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURAL STEEL STRAIN OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.
- HEAT TRACE THE ENTIRE SERVICE TO BE PROTECTED FROM FREEZING IN ALL AREAS INDICATED ON THE DRAWINGS AND NOTED IN THE SPECIFICATIONS. PROVIDE HEAT TRACING TO ACCOMMODATE ALTERATIONS IN THE PIPE LAYOUT DUE TO INTERFERENCES OR OTHER INSTALLATION REQUIREMENTS. CONNECT HEAT TRACING CIRCUIT TO THE ELECTRICAL POWER LOCATIONS INDICATED ON THE DRAWINGS OR THE NEAREST CIRCUIT AVAILABLE. COORDINATE WITH ELECTRICAL DIVISION.
- PROVIDE SHUT-OFF VALVES ON ALL MAIN RISERS AND AT EACH CONNECTION TO EQUIPMENT.
- PROVIDE COMPLETE VENTING SYSTEMS IN ACCORDANCE WITH THE PLUMBING OR BUILDING CODE.
- HEAT TRACE ALL PIPING WITHIN UNHEATED SPACES SUCH AS PARKING LEVELS, SOFFITS AND WITHIN WALLS WHERE FREEZING MAY OCCUR.



ITEM NO.	EQUIPMENT CATEGORY	COLD WATER SIZE(MM)	HOT WATER SIZE(MM)	FILTERED H2O	DIRECT DRAIN SIZE(MM)	INDIRECT DRAIN SIZE(MM)	GAS SIZE(MM)	MBTU/H
1	12' PRODUCE COOLER					38	FFD	
1	8' PRODUCE COOLER					38	FFD	
4	12' SALAD COOLER					38	FFD	
35	CAKE					38	FFD	
36	2 DOOR BAKERY FREEZER					38	FFD	
41	24' MEAT SHELF					38	FFD	
44	5 DOOR DAIRY SHELVING					38	FFD	
44	3 DOOR DAIRY SHELVING					38	FFD	
45	5 DOOR FREEZER SHELVING					38	FFD	
50	COUNTER/SINK	12	12		38			
51	COOLER					25	FD	
52	COOLER					25	FD	
55	COUNTER/SINKS	12	12		38			
60	FREEZER					38	FD	
61	COOLER					38	FD	

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 T: 705.656.4531
 e: sayers@apsley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**GROUND FLOOR PLAN
 PLUMBING AND DRAINAGE**

SCALE
 1:100

DATE
JUNE 16, 2021

PROJECT NUMBER
21376

DRAWING NUMBER
M301

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021.08.25	
2	ISSUED FOR PERMIT	2021.09.09	
3	ISSUED FOR ADDENDUM #1	2021.09.15	
4	ISSUED FOR ADDENDUM #2	2021.09.27	
5	RE-ISSUED FOR TENDER AND PERMIT	2022.01.31	
6	RE-ISSUED FOR PERMIT	2022.03.18	
7	ISSUED FOR CONSTRUCTION	2022.07.15	
8			

MJMA
 maclean jaunkains miller architects
 425 adelade street west level 6
 toronto ontario m5v 3c1
 416 593 6794
 www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416-593-5300 FAX 416-593-4840

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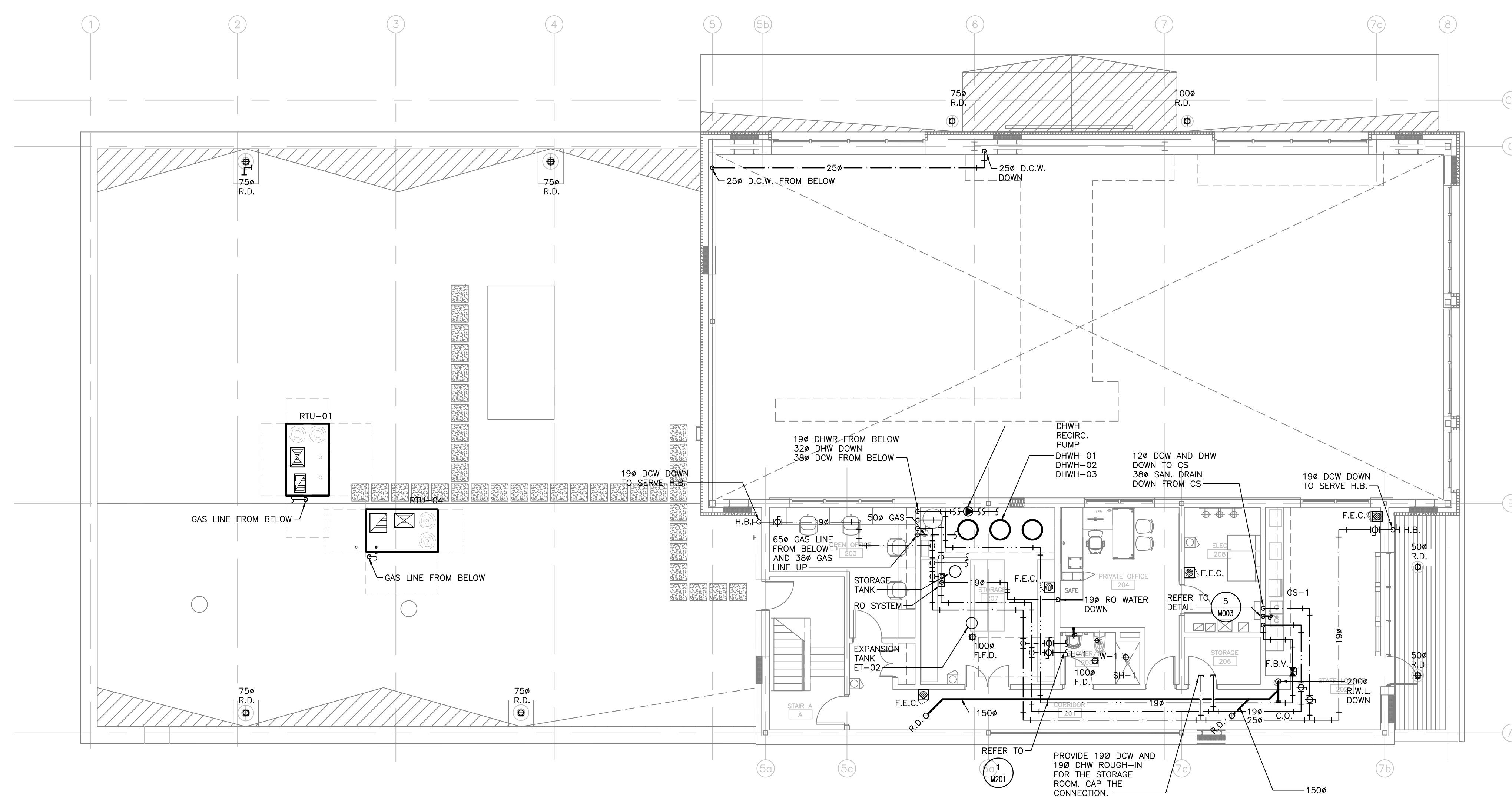


GENERAL NOTES:

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PLUMBING AND DRAINAGE NOTES:

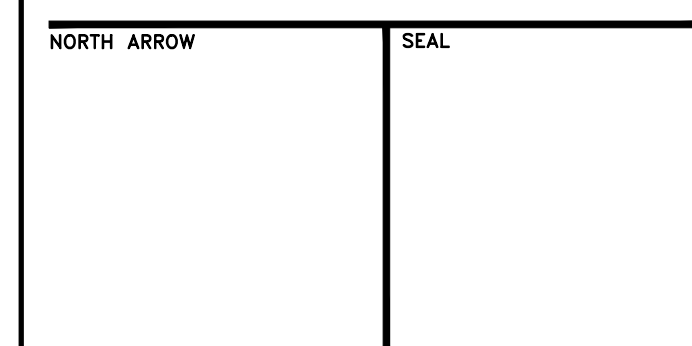
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KITCHEN EQUIPMENT SCHEDULE									
ITEM NO.	EQUIPMENT CATEGORY	COLD WATER SIZE(MM)	HOT WATER SIZE(M)	FILTERED H2O	DIRECT DRAIN SIZE(M)	INDIRECT DRAIN SIZE(M)	INDIRECT DRAIN ROUGH-IN	GAS SIZE(M)	MBTU/H
73	RESIDENTIAL FRIDGE	6		Yes					
74	RESIDENTIAL DW	12			38				

SAYERS FOOD LIMITED

132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**SECOND FLOOR PLAN
 PLUMBING AND DRAINAGE**

SCALE
 1:100

DATE
JUNE 16, 2021

PROJECT NUMBER
21376

DRAWING NUMBER
M302

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021.08.25	
2	ISSUED FOR PERMIT	2021.09.09	
3	RE-ISSUED FOR TENDER AND PERMIT	2022.01.31	
4	ISSUED FOR CONSTRUCTION	2022.07.15	
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MJMA
 macIennan jaunKains miller architects
 425 adelaide street west level 6
 toronto ontario m5v 3c1
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TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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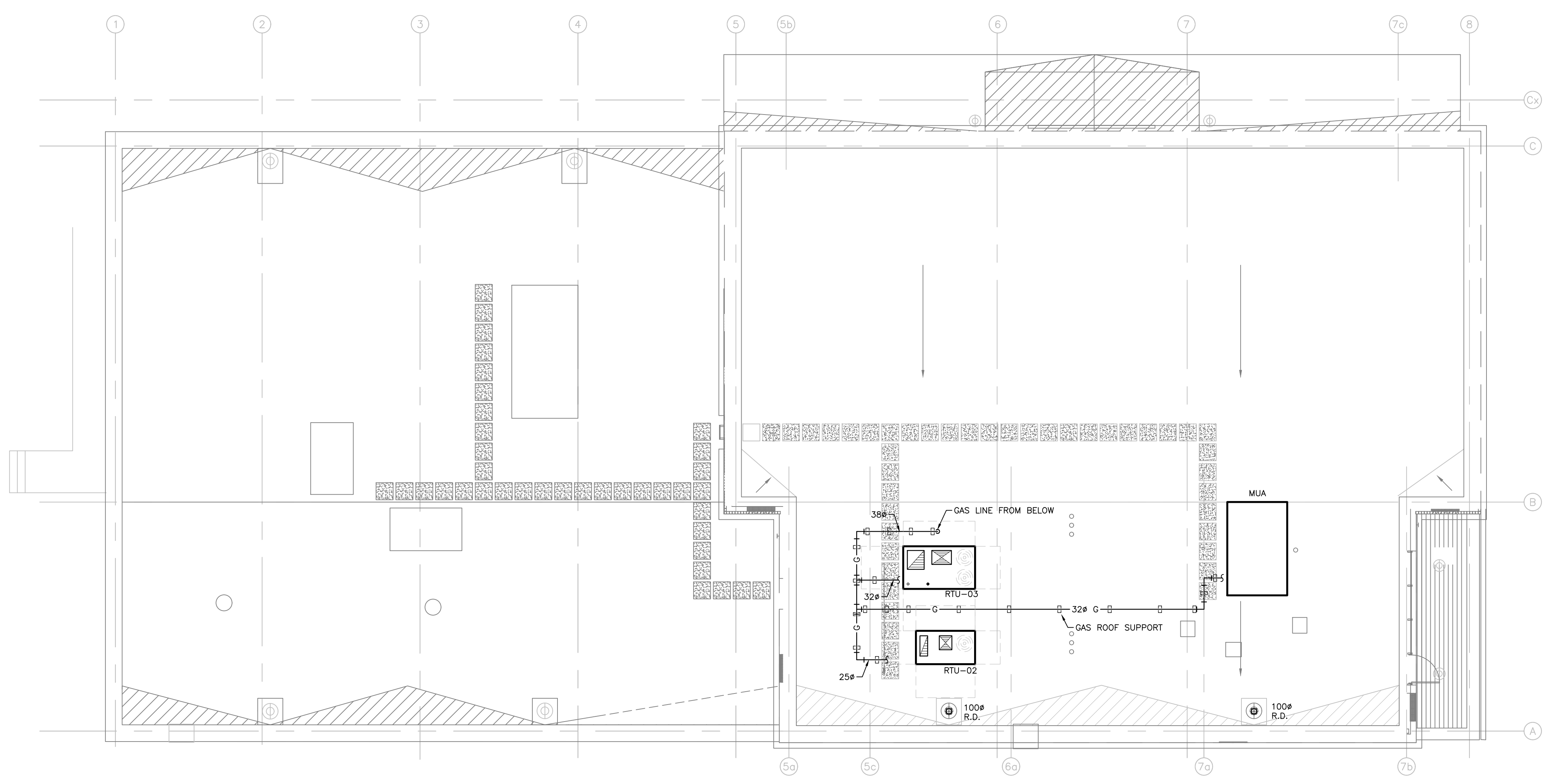
Smith + Andersen
 1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
 416 487 8151 f 416 487 8104 smi+and@smithandanderson.com

GENERAL NOTES:

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- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

PLUMBING AND DRAINAGE NOTES:

- PROVIDE MINIMUM 75mm (3 IN.) FOR UNDER GROUND SANITARY DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE APPROVED BACK FLOW PREVENTION FOR ALL TRAP PRIMER SYSTEMS.
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SAYERS FOOD LIMITED

132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW	SEAL
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PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE
 ROOF PLAN PLUMBING AND
 DRAINAGE

SCALE
 1:100
DATE
 JUNE 16, 2021

PROJECT NUMBER
 21376
DRAWING NUMBER

M303

GENERAL NOTES:

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HVAC NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS. REQUEST CLARIFICATION FOR ANY DIFFUSER OR GRILLE WITH MORE THAN A 600MM (24 IN.) DISCREPANCY IN LOCATION.
- TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE ARCHITECT WITHIN 1000MM (40 IN.) OF LOCATION SHOWN. REVIEW ALL RELOCATIONS OUTSIDE OF THIS RANGE WITH THE CONSULTANT.
- INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
- PROVIDE DIFFUSER DUCT RUN-OUTS THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
- MAINTAIN A MINIMUM OF 2400MM (96 IN.) CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURAL STEEL STRAITS OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- PROVIDE ALL OPEN ENDED DUCTWORK COMPLETE WITH WIRE MESH.
- PROVIDE 600X400X1200 (WXHXL) INTERNAL ACOUSTIC INSULATED ELBOW OR STRAIGHT TRANSFER DUCTS UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS IN LIEU OF SILENCERS ARE NOT PERMITTED.

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REVISIONS AND ISSUES

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3	ISSUED FOR ADDENDUM #1	2021.09.15	
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MJMA

maclean jaunkains miller architects
425 adelaide street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmachitects.com

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CIVIL ENGINEERS

18 ROBB BOULEVARD - UNIT 8
ORANGVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL

STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416-593-5300 FAX 416-593-4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416-487-8151



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416 487 8151 f 416 487 8104 smthandanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

GROUND FLOOR PLAN HVAC

SCALE

1:100

DATE

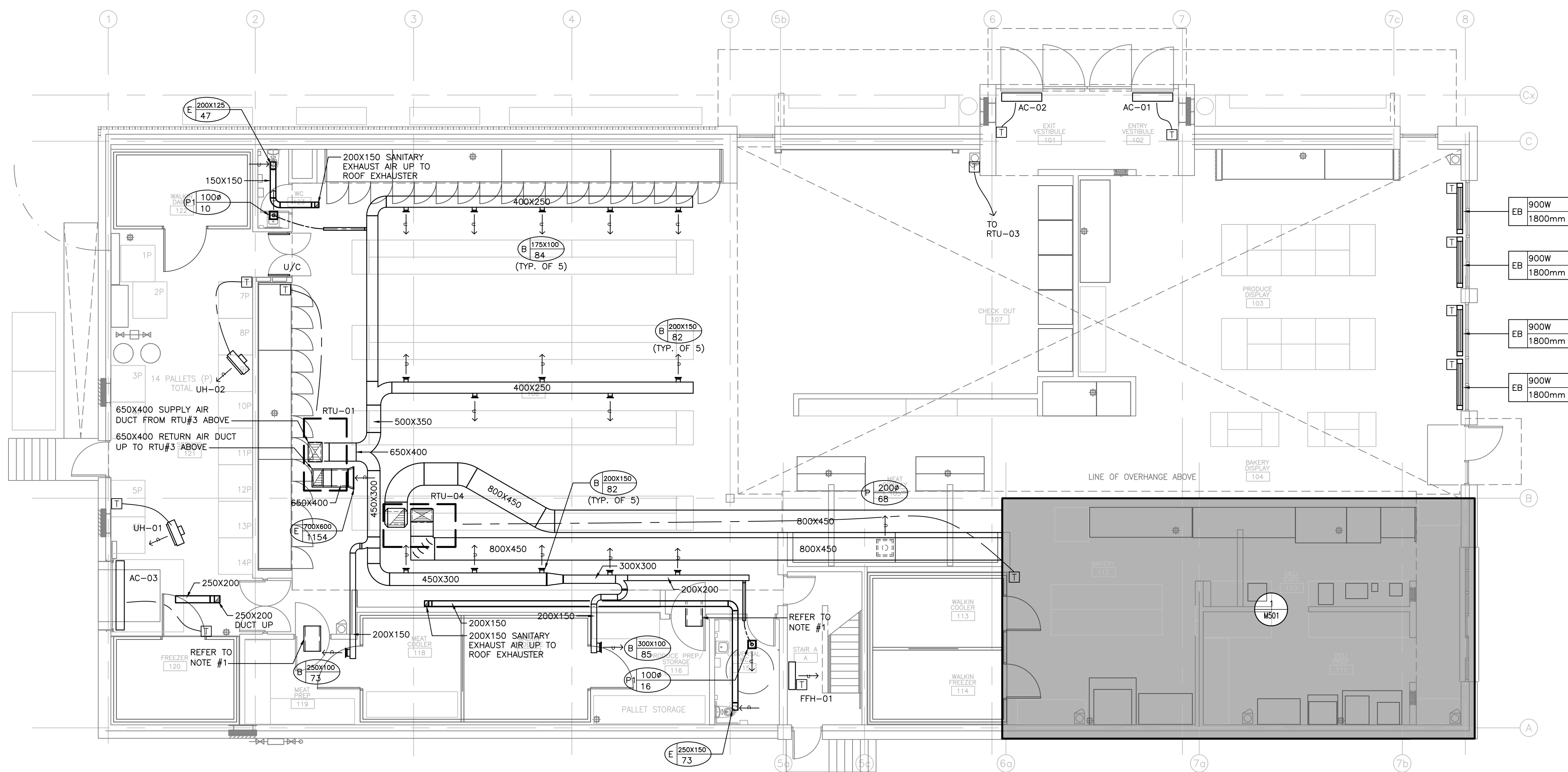
JUNE 16, 2021

PROJECT NUMBER

21376

DRAWING NUMBER

M401



DRAWING NOTE:

- PROVIDE 600X400X1200 (WXHXL) INTERNAL ACOUSTIC INSULATED ELBOW OR STRAIGHT TRANSFER DUCTS UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS IN LIEU OF SILENCERS ARE NOT PERMITTED.

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t: 705.656.4531
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NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

ROOF PLAN HVAC

SCALE

1:100

DATE

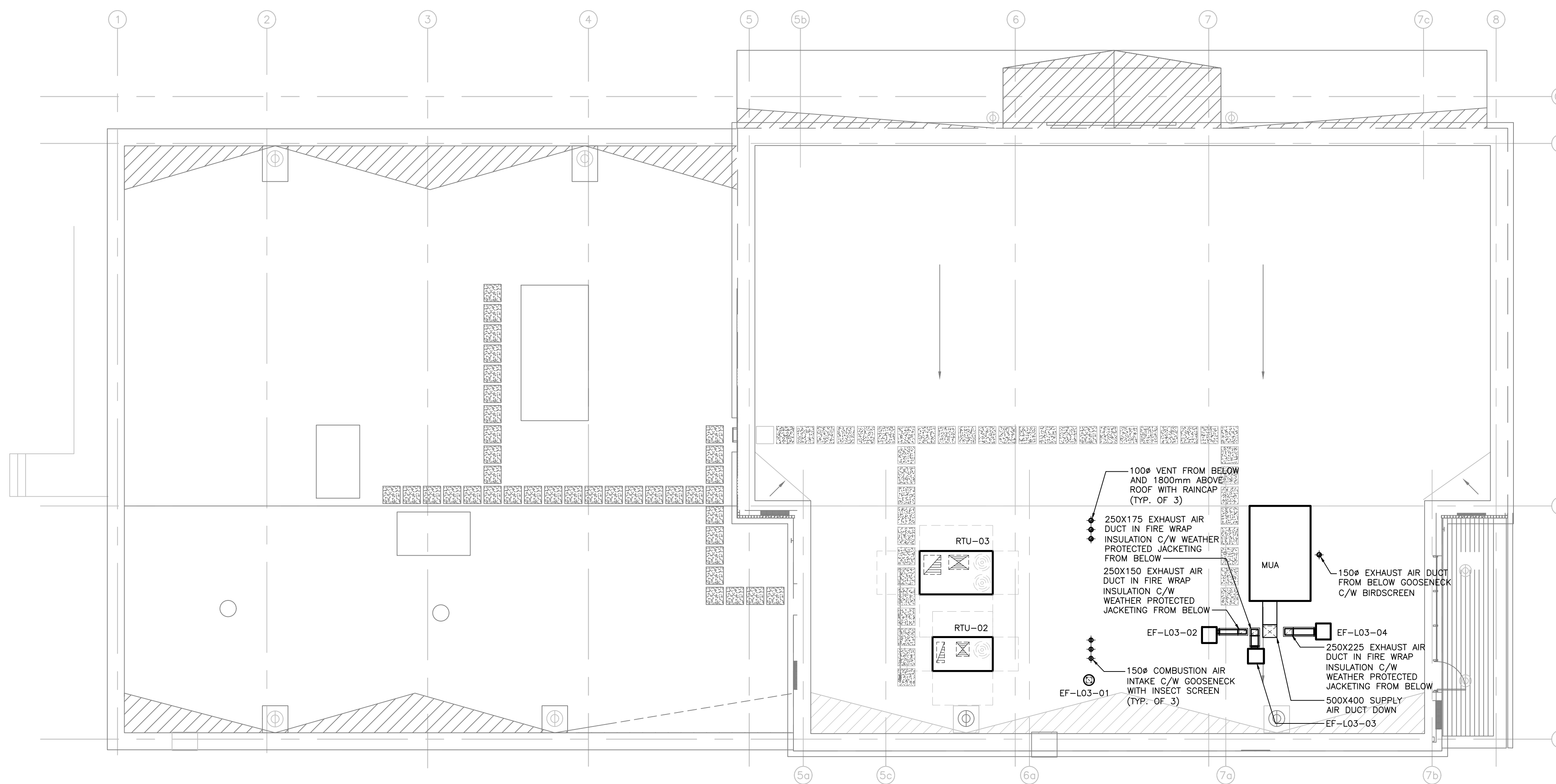
JUNE 16, 2021

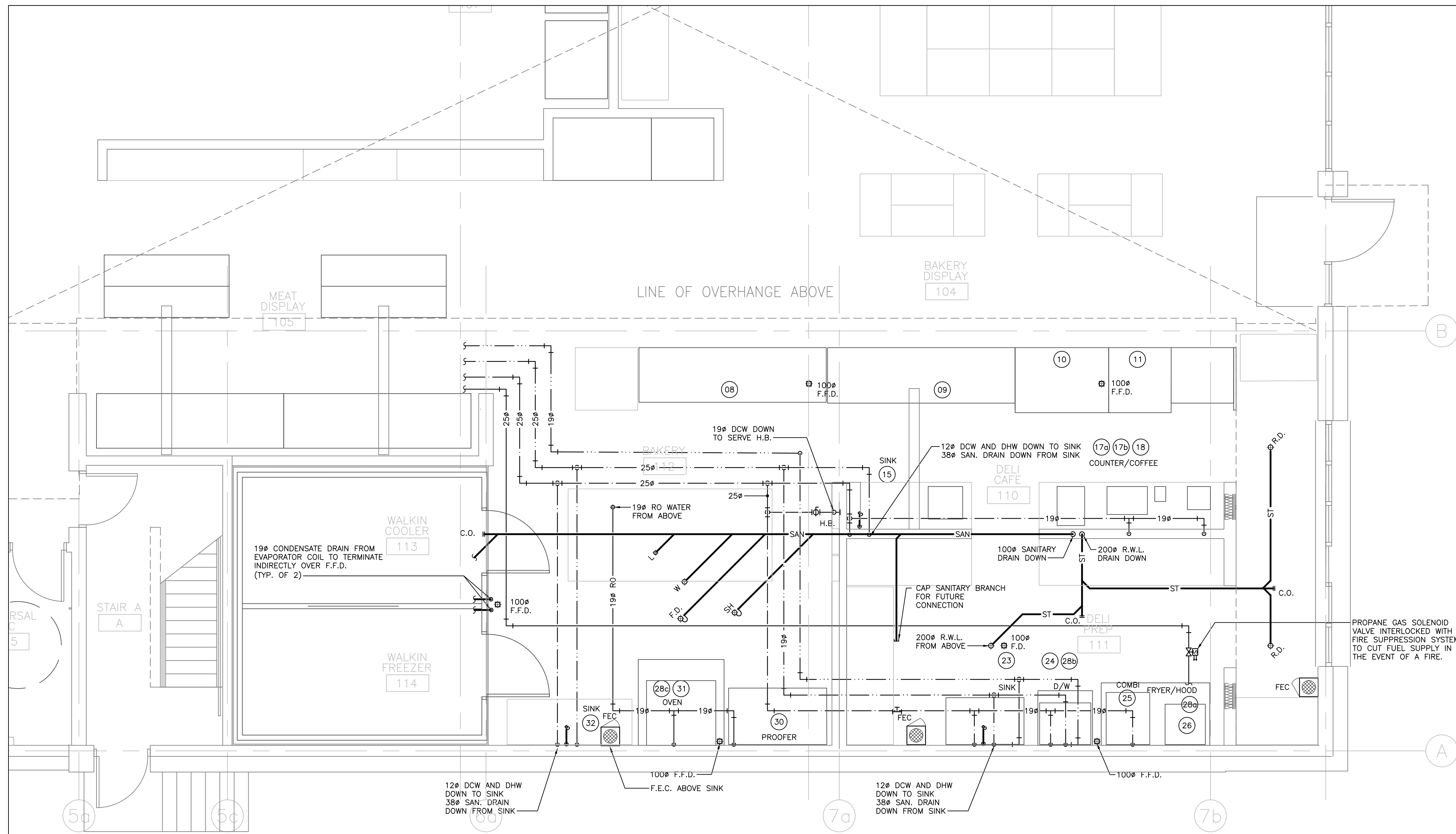
PROJECT NUMBER

21376

DRAWING NUMBER

M403





KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	EQUIPMENT CATEGORY	COLD WATER SIZE(MM)	HOT WATER SIZE(M)	FILTERED H2O	DIRECT DRAIN SIZE(M)	INDIRECT DRAIN SIZE(M)	INDIRECT DRAIN ROUGH-IN	GAS SIZE(M)	MBTU/H
8	12' DELI SELF SERVE					38	FFD		
9	MEAT & CHEESE					38	FFD		
10	SUB SERV					38(x2)	FFD		
11	HOT SRVC					38(x2)	FFD		
15	MEAT SLICER COUNTER/SINK	12	12		38				
17a	ESPRESSO MACHINE	12			25				
18	COFFEE MAKER	6							
23	SINK	12	12		38				
24	DISHWASHER	19	19	19	16				
25	COMBI	19				50	FD	19	
26	FRYER							32	700
30	PROOFER	12				19	FD		
31	OVEN	6 NPT		YES					
32	COUNTER/SINK	12	12		38				
33	COOLER					38	FD		
34	FREEZER					38	FD		

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- PROVIDE ADDITIONAL P.R.V.'S AS REQUIRED

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REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021.08.25	
2	ISSUED FOR PERMIT	2021.09.09	
3	ISSUED FOR ADDENDUM #1	2021.09.15	
4	ISSUED FOR ADDENDUM #2	2021.09.27	
5	RE-ISSUED FOR TENDER AND PERMIT	2022.01.31	
6	RE-ISSUED FOR PERMIT	2022.03.18	
7	ISSUED FOR CONSTRUCTION	2022.07.15	
8			

MJMA

maclennan jaunkains miller architects
 425 adelaide street west level 6
 toronto ontario m5v 3c1
 416 593 6796
 www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL

STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151



Smith + Anderson

1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
 416 487 8151 f 416 487 8104 smthanderson.com

SAYERS FOOD LIMITED

132 BURLIEGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLIEGH STREET, APSLEY

DRAWING TITLE

GROUND FLOOR PLAN
 KITCHEN PLUMBING AND
 DRAINAGE

SCALE

1:50

DATE

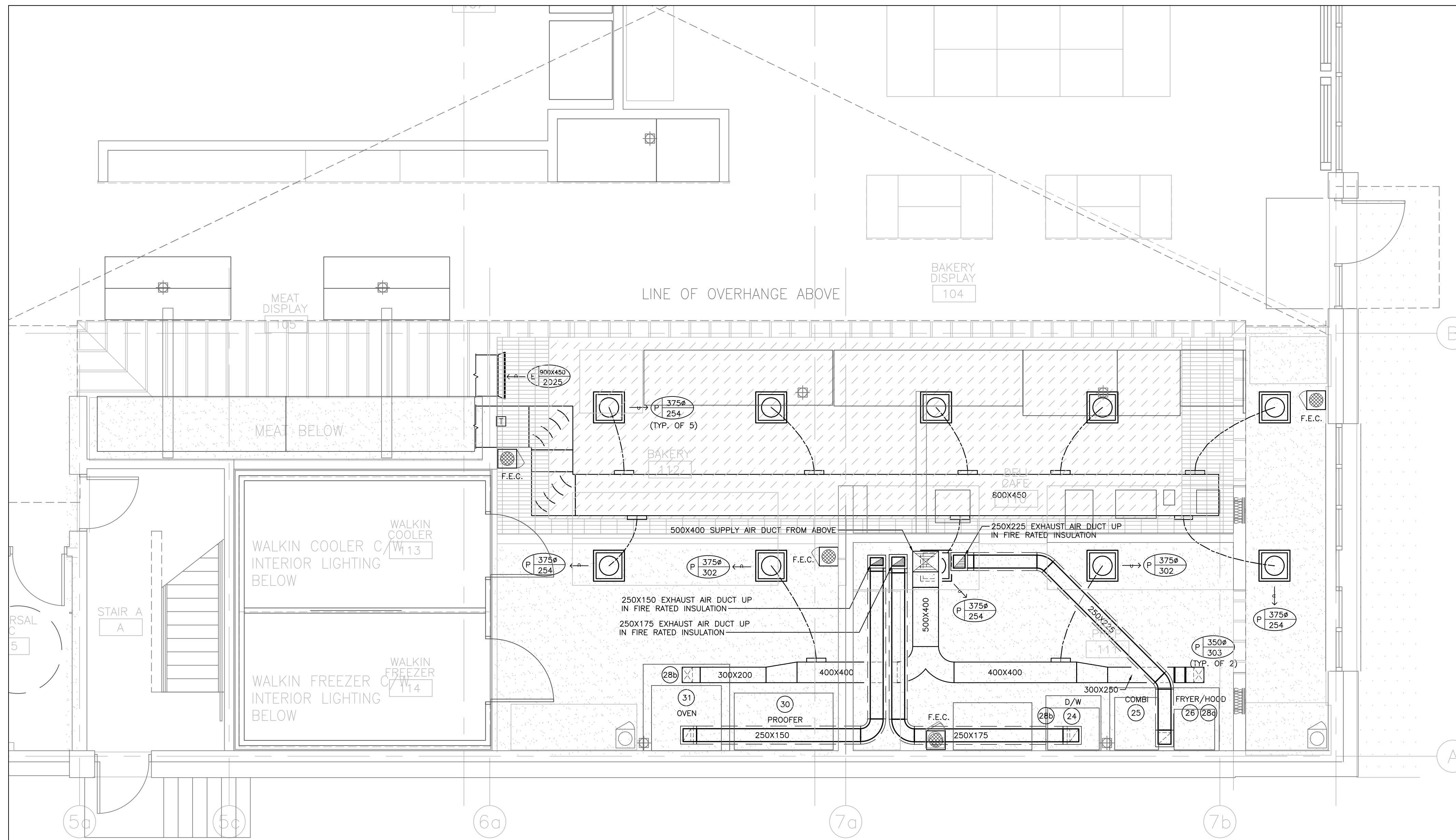
JUNE 16, 2021

PROJECT NUMBER

21376

DRAWING NUMBER

M501



- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 - REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- HVAC NOTES:**
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS. REQUEST CLARIFICATION FOR ANY DIFFUSER OR GRILLE WITH MORE THAN A 600MM (24 IN.) DISCREPANCY IN LOCATION.
 - TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE ARCHITECT WITHIN 100MM (40 IN.) OF LOCATION SHOWN. REVIEW ALL RELOCATIONS OUTSIDE OF THIS RANGE WITH THE CONSULTANT.
 - INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - PROVIDE DIFFUSER DUCT RUN-OUTS THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
 - MAINTAIN A MINIMUM OF 2400MM (96 IN.) CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
 - INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURAL STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.
 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 - PROVIDE ALL OPEN ENDED DUCTWORK COMPLETE WITH WIRE MESH.
 - PROVIDE 600X400X1200 (WXXHXXL) INTERNAL ACOUSTIC INSULATED ELBOW OR STRAIGHT TRANSFER DUCTS UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS IN LIEU OF SILENCERS ARE NOT PERMITTED.

KITCHEN EQUIPMENT SCHEDULE					
ITEM NO.	EQUIPMENT CATEGORY	DUCT CONNECTION SIZE(MM)	EXHAUST FLOW (CFM)	PRESSURE DROP	REMARK
28a	EXHAUST HOOD (Supply)	203x279	504	0.11	SERVING 25, 26
28a	EXHAUST HOOD (Return)	254x229	840	0.38	SERVING 25, 26
28b	EXHAUST HOOD	254X178	700	0.25	SERVING 24
28c	EXHAUST HOOD (Supply)	254X152	363	0.37	SERVING 31
28c	EXHAUST HOOD (Return)	254X152	605	0.11	SERVING 31

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES			
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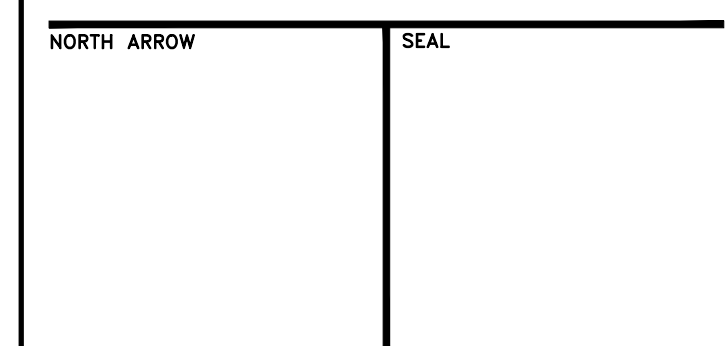
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 t: 705.656.4531
 e: sayers@apspley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLIEGH STREET, APSLEY**

DRAWING TITLE
**GROUND FLOOR PLAN
 KITCHEN HVAC**

SCALE
 1:50

DATE
JUNE 16, 2021

PROJECT NUMBER
21376

DRAWING NUMBER
M502

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE.		CEILING MOUNTED WALL WASHER LUMINAIRE. ILLUMINATION DIRECTION DENOTED BY HATCHED SIDE.
	DENOTES FIXTURE ON EMERGENCY/NIGHT LIGHT CIRCUIT.		CEILING MOUNTED TRACK LIGHTING C/W NUMBER OF FIXTURES.
	WALL MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE.		WALL MOUNTED LUMINAIRE
	CEILING MTD. LUMINAIRE OR BASKET LUMINAIRE. LAMP ORIENTATION AS SHOWN. REFER TO SCHEDULE FOR TYPE.		PENDANT FIXTURE
	EXISTING LUMINAIRE TO BE REMOVED		CEILING MOUNTED LUMINAIRE
	EXISTING LUMINAIRE TO REMAIN		FLOOR MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE. NUMBER OF HEADS SHOWN. REFER TO SCHEDULE FOR FIXTURE AND POLE TYPE.		TRACK LIGHT WITH PENDANT LUMINAIRE AS INDICATED
	CEILING MOUNTED LUMINAIRE WITH GIMBALLED HEADS. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS.		BOLLARD LUMINAIRE
	VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE		
	CONTINUOUS STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE.		
	STAGGERED COVE LIGHT. DIMENSIONS AND NUMBER OF FIXTURES SHOWN. REFER TO SCHEDULE FOR FIXTURE TYPE.		
	RECESSED CEILING MOUNTED REMOTE ADJUSTABLE LUMINAIRE CONNECTED TO EMERGENCY LIGHTING BATTERY UNIT.		EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN
	WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD		EMERGENCY LIGHTING BATTERY UNIT
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD		EMERGENCY LIGHTING BATTERY + EXIT LIGHT COMBINATION UNIT C/W NUMBER OF HEADS SHOWN
	CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD		EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD		EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

7 LIGHTING LEGEND 1

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE LINE VOLTAGE LIGHT SWITCH		
	2 GANG - LINE VOLTAGE LIGHT SWITCH		
	3 GANG - LINE VOLTAGE LIGHT SWITCH		
	3 WAY - LINE VOLTAGE LIGHT SWITCH		
	4 WAY - LINE VOLTAGE LIGHT SWITCH		
	LOW VOLTAGE LIGHT SWITCH		
	KEY OPERATED LINE VOLTAGE SWITCH		
	MASTER SWITCH		
	ALL-OFF SWITCH		
	SINGLE POLE 347V SWITCH		
	DIMMER TYPE TO SUIT LOAD		
	CEILING MOUNTED PHOTO CELL SWITCH		
	WALL MOUNTED PHOTO CELL SWITCH		
	DAY LIGHT PHOTO SENSOR		
	TIME SWITCH		
	CEILING MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'X'. REFER TO OCCUPANCY SENSOR SCHEDULE.		
	WALL MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'X'. REFER TO OCCUPANCY SENSOR SCHEDULE.		
	LIGHTING CONTROL MODULE		
	MULTI-ZONE LIGHTING CONTROL PANEL		
	REMOTE STATION WITH PRESET SCENE SELECTION BUTTON		
	PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

8 LIGHTING LEGEND 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ALARM INITIATING DEVICES			
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR		AIR SAMPLING SYSTEM C/W SUPERVISORY AND ALARM ZONE
	WALL MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR		MANUAL PULL STATION
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR C/W RELAY BASE		ALARM FLOW SWITCH (SUPPLIED BY OTHERS)
	CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR		ALARM PRESSURE SWITCH (SUPPLIED BY OTHERS)
	WALL MOUNTED RATE-OF-RISE HEAT DETECTOR		ALARM CHECK VALVE (SUPPLIED BY OTHERS)
	CEILING MOUNTED FIXED TEMPERATURE HEAT DETECTOR		ALARM DRY PIPE VALVE (SUPPLIED BY OTHERS)
	WALL MOUNTED FIXED TEMPERATURE HEAT DETECTOR		BEAM SMOKE DETECTOR (TRANSMITTER)
	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR		BEAM SMOKE DETECTOR (RECEIVER)
	CEILING MOUNTED COMBINATION HEAT + SMOKE DETECTOR		FLAME DETECTOR
	LOCAL 120V SMOKE ALARM		
	LOCAL 120V COMBINATION CARBON MONOXIDE AND SMOKE ALARM		
	LOCAL 120V CARBON MONOXIDE DETECTOR		
	LOCAL 120V COMBINATION STROBE AND SMOKE ALARM		
SUPERVISORY INITIATING DEVICES			
	LOW PRESSURE SUPERVISED SWITCH (SUPPLIED BY OTHERS)		
	SPRINKLER SUPERVISED VALVE (SUPPLIED BY OTHERS)		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

5 FIRE ALARM LEGEND 1

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SIGNALLING DEVICES			
	HORN		CEILING MOUNTED EMERGENCY EVACUATION SPEAKER
	DOUBLE SIDED HORN		WALL MOUNTED EMERGENCY EVACUATION SPEAKER
	HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.		CEILING MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	DOUBLE SIDED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.		WALL MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	MINI HORN		
	SPEAKER HORN		
	FIRE ALARM BELL, 103mm(4") UNLESS OTHERWISE NOTED.		CEILING MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	FIRE ALARM BELL/STROBE, 103mm(4") BELL UNLESS OTHERWISE NOTED. 15CD INTENSITY UNLESS OTHERWISE NOTED.		WALL MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	10 MINUTES SILENCE SWITCH FOR SPEAKERS IN SUITES		
ANCILLARY DEVICES			
	ISOLATION MODULE		TROUBLE AND ALARM CONNECTION TO FIRE-ACTION CONTROL PANEL
	FIELD INSTALLED ADDRESSABLE CONTROL POINT		FLOOR MOUNTED DOOR HOLD OPEN DEVICE
	"FIRE, DO NOT ENTER" SIGN		WALL MOUNTED DOOR HOLD OPEN DEVICE
	FIRE ALARM PASSIVE GRAPHIC		FIRE ALARM PANEL CONTROL, DCP OR ANNUNCIATOR AS NOTED.
	VIDEO DISPLAY TERMINAL, FOR BUILDING OPERATIONS PERSONNEL		END-OF-LINE RESISTOR TERMINATION
	SUPERVISED FIRE FIGHTERS HAND SET		SMOKE DAMPER, USED IN CONJUNCTION WITH MONITORING DEVICE FOR POSITION ANNUNCIATION AND CONTROL DEVICE
	FIRE ALARM SHUT DOWN		
	FIRE ALARM START UP		
	REMOTE TESTING STATION FOR DUCT SMOKE DETECTORS		
	FIELD INSTALLED MONITORING MODULE FOR ALARM OR SUPERVISORY		

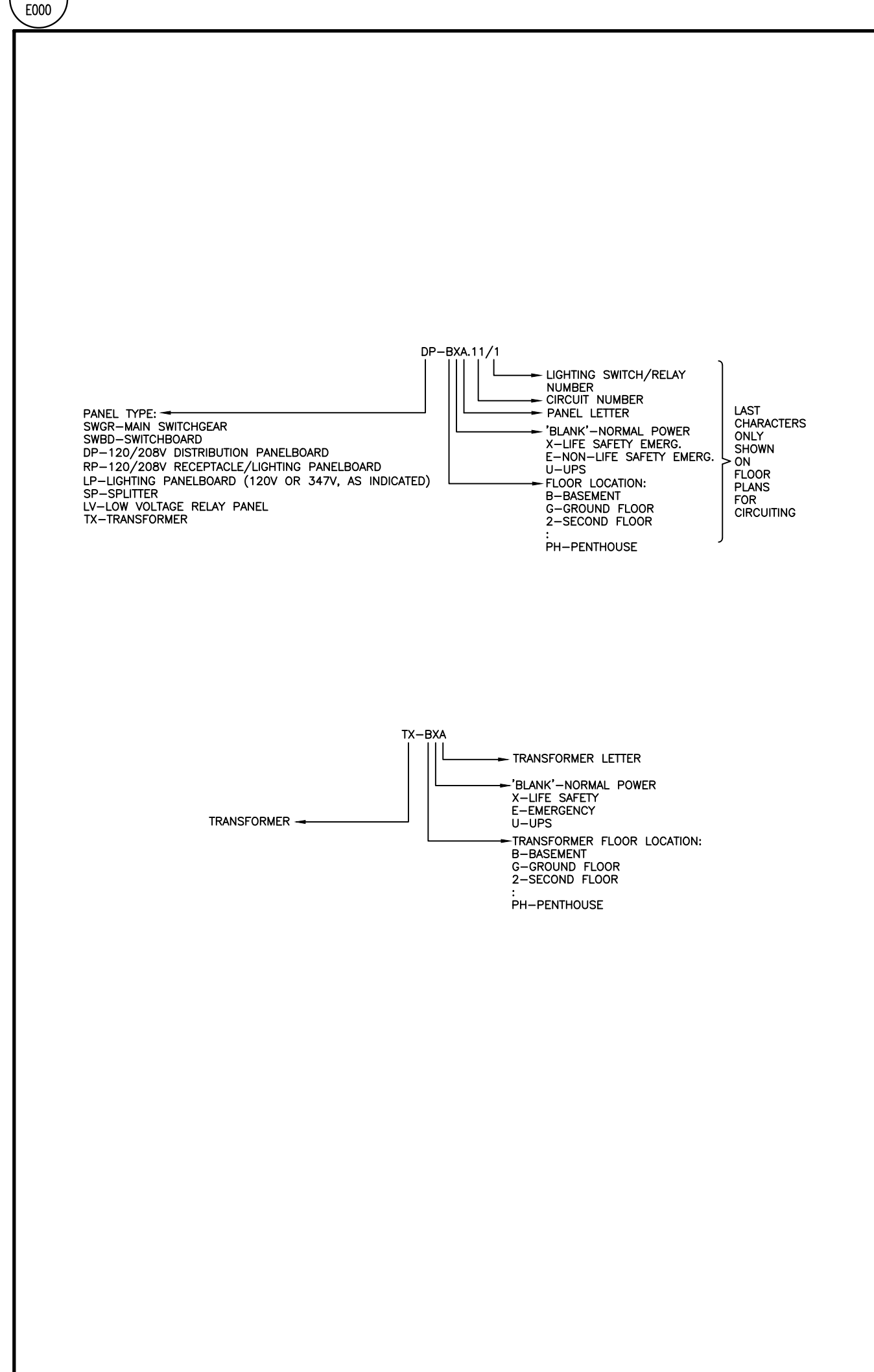
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

6 FIRE ALARM LEGEND 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		WALL MOUNTED VOICE OUTLET FOR EMERGENCY PHONE STATION. CABLE TYPE AS PER SPECIFICATION.
	WALL MOUNTED ABOVE COUNTER VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		WALL MOUNTED ABOVE COUNTER VOICE OUTLET FOR EMERGENCY PHONE STATION. CABLE TYPE AS PER SPECIFICATION.
	WALL MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		COMMUNICATIONS INTERCOM
	WALL MOUNTED ABOVE COUNTER VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		SERVICE POLE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.
	WALL MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		RACEWAY MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.
	WALL MOUNTED ABOVE COUNTER DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		COAXIAL CATV OUTLET
	FLOOR MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	FLOOR MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		COMMUNICATIONS BOX
	FLOOR MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		POWER ZONE BOX
	FURNITURE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		TELEPHONE ZONE BOX
	FURNITURE MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		
	FURNITURE MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		
	CEILING MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		
	CEILING MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

3 DATA AND COMMUNICATIONS LEGEND



4 DESIGNATION DIAGRAM

ELECTRICAL DRAWING LIST	
Sheet Number	Sheet Title
GENERAL	
E000	DRAWING LIST AND LEGEND
E001	LEGEND
ELECTRICAL STANDARD DETAILS	
E002	ELECTRICAL DETAILS
E003	ELECTRICAL DETAILS
E004	ELECTRICAL DETAILS
SITE PLAN	
E100	SITE PLAN - ELECTRICAL
SCHEMATICS AND DIAGRAMS	
E200	SINGLE LINE DIAGRAM
POWER AND SYSTEMS	
E300	GROUND LEVEL - POWER AND SYSTEMS
E301	SECOND LEVEL - POWER AND SYSTEMS
E302	ROOF - POWER AND SYSTEMS
LIGHTING	
E400	GROUND LEVEL - LIGHTING
E401	SECOND LEVEL - LIGHTING
PART PLANS AND DETAILS	
E500	ENLARGED PLANS

1 DRAWING LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
A	AMPS	MO	MOTOR OPERATED
AD	ACCESS DOOR	MOD	MOTOR OPERATED DAMPER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MW	MICROWAVE
AFF	ABOVE FINISHED FLOOR	N	NEW
BBH	BASEBOARD HEATER	NC	NORMALLY CLOSED
BU	BATTERY UNIT	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CD	CANDELA	NO	NORMALLY OPEN
CL	CEILING MOUNTED	OC	OVER COUNTER
CS	CHARGING STATION	OL	OBSTRUCTION LIGHT
CV	CONVENTIONAL STYLE DEVICE	P	PARABOLIC LOUVRE
D	DEDICATED	PL	PATIENT LIFT
DG	DEDICATED GROUND	R	RELOCATE
DHW	DOMESTIC HOT WATER TANK	RA	RANGE
DNC	DEDICATED NEUTRAL + BOND	RC	REVISE EXISTING CIRCUIT
DR	LAUNDRY DRYER	RH	RANGE HOOD
DW	DISHWASHER	RIC	ROUGH IN AND CONNECT
E	EXISTING	RO	ROUGH IN ONLY
EF	EXHAUST FAN	RR	REMOVE AND REINSTALL
EM	EMERGENCY CIRCUIT	SC	SEPARATE CIRCUIT
EP	ELECTRICAL SUITE PANEL	SF	SYSTEM FURNITURE
ER	EXISTING TO BE REMOVED	SP	SUITE ALARM PANEL
F	REFRIGERATOR	SSP	SLAVE SUITE ALARM PANEL
FF	FLOOR FEED	TYP	TYPICAL
FFH	FORCE FLOW HEATER	UC	UNDER CABINET MOUNTED
FL	FLOOR MOUNTED	U	UPS CIRCUIT
GFCl	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
GND	GROUND	V	VOLTS
HK	HOUSE KEEPING	W	WATTS
HMT	HARMONIC MITIGATING TRANSFORMER	WG	WIRE GUARD
ICE	ICE MACHINE	WAP	WIRELESS ACCESS POINT
IG	ISOLATED GROUND	WF	WALL FEED
JB	JUNCTION BOX	WP	WEATHERPROOF
KW	KILOWATTS	X	EXPLOSION PROOF DEVICE + BACK BOX
LV	LOW VOLTAGE	ZSCT	ZERO SEQUENCE CURRENT TRANSFORMER

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

2 GENERAL LEGEND AND ABBREVIATIONS

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.17	
2	ISSUED FOR TENDER	2021.08.27	
3	ISSUED FOR BUILDING PERMIT	2021.09.09	
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MJMA

macleanen jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

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SAYERS FOOD LIMITED

132 BURLINGHAM STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY

DRAWING TITLE

DRAWING LIST AND LEGEND

SCALE

NTS

DATE

JUNE 16, 2021

PROJECT NUMBER

21376.000.e001

DRAWING NUMBER

E000

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ACCESS CONTROL			
	ACCESS CONTROL SYSTEM PANEL		KEY SWITCH
	ACCESS CONTROL SYSTEM SERVER		LATCH BOLT MONITOR
	AUTOMATIC DOOR OPERATOR		LATCH BOLT MONITOR REQUEST TO EXIT
	BIOMETRIC READER		MAGLOCK KEY RESET SWITCH
	CARD READER		MAGNETIC DOOR HOLD/OPEN DEVICE
	CENTRAL MANAGEMENT STATION		MAGNETIC LOCK
	DOOR ALARM		MOTION REQUEST TO EXIT
	DOOR CONTACT		POWER SUPPLY CONTROL UNIT
	ELECTRIC DOOR HOLD/OPEN DEVICE		PUSH BUTTON DOOR OPERATOR
	ELECTRIC LATCH RETRACTION		PUSH BUTTON REQUEST TO EXIT
	ELECTRIC MORTISE LOCK		REMOTE RELEASE
	ELECTRIC STRIKE		RF NODE
	GATEWAY		RF RECEIVER
	IP DOOR CONTROLLER		SECURITY DOOR TAG, XX DENOTES TYPE
	KEY ENCODER		WIRELESS LOCK
REAL TIME LOCATING SYSTEM (RTL)			
	LOW FREQUENCY EXCITER		RF READER MASTER
	INFRARED READER		RF READER
	REMOTE DISPLAY UNIT		RF ETHERNET READER
	LOCAL AREA RECEIVER		RF LONG RANGE READER
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

5 SECURITY LEGEND 1
E001

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ELECTRONIC PERSONAL PROTECTION			
	EMERGENCY PHONE STATION		DURESS ALARM STATION
	STROBE LIGHT		PANIC ALARM RECEIVER
	PANIC BUTTON		ASSISTANCE REQUIRED SIGN
INTERCOM LEGEND			
	INTERCOM		MASTER INTERCOM
	ENTRY PHONE CONSOLE		
CCTV			
	FIXED CAMERA		CCTV SYSTEM SERVER
	PAN-TILT-ZOOM CAMERA		POWER INJECTOR
	PERSONAL COMPUTER		VIDEO MONITOR
	COMPUTER MONITOR		FIXED CCTV CAMERA HORIZONTAL ANGLE OF VIEW
	DIGITAL VIDEO RECORDER		LCD MONITOR, SIZE AS INDICATED
	NETWORK VIDEO RECORDER		
INTRUSION DETECTION			
	SIREN		INTRUSION DETECTION SYSTEM PANEL
	BREAK GLASS SENSOR		POWER SUPPLY
	MOISTURE SENSOR		WALL MOUNTED SECURITY MOTION SENSOR
	KEYPAD		CEILING MOUNTED SECURITY 360° MOTION SENSOR
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

6 SECURITY LEGEND 2
E001

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION TRANSFORMER - DELTA-WYE UNLESS OTHERWISE NOTED.		GROUND FAULT ALARM RELAY
	ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD - DELTA-WYE UNLESS OTHERWISE NOTED.		IP BASED POWER QUALITY DIGITAL METER, PROVIDE 21mm(3/4") CONDUIT TO NEAREST TELECOM ROOM.
	MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN		EMERGENCY GENERATOR
	LOW VOLTAGE, DRAW-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN		GROUND CONNECTION POINT
	DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN.		ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT)
	FUSIBLE LOAD BREAK ISOLATION SWITCH, VOLTAGE, FUSE AND FRAME SIZE AS SHOWN.		GROUND LOOP
	FUSE		HIGH RESISTANCE GROUND FAULT SYSTEM
	INSULATED CASE CIRCUIT BREAKER		LIGHTNING SURGE ARRESTOR
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		LOAD BANK
	INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT)
	LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN.		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS)
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)
	AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS		METERING SOCKET
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS)		METERING CABINET
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH		DIGITAL ELECTRONIC METER
	AMMETER		SURGE PROTECTION DEVICE
	AUTO-TRANSFORMER		
	BATTERY		
	CONTACTOR		
	CURRENT TRANSFORMER		
	CURRENT TRANSFORMER (Z.S. - DENOTES ZERO SEQUENCE)		
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

3 SINGLE LINE DIAGRAM LEGEND 1
E001

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POTENTIAL TRANSFORMER		KEY INTERLOCK SYSTEM - ONE KEY
	ZERO SEQUENCE CURRENT TRANSFORMER		KEY INTERLOCK SYSTEM - N LOCKS, N-1 KEYS UNLESS NOTED OTHERWISE
	UPS DIODE		ELECTRONIC INTERLOCK SYSTEM - N LOCKS
	VOLTAGE INDICATOR		MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE
	DENOTES CONNECT 'ED' LOAD APPLIED TO DESIGNATED APPARATUS.		ELECTRONIC TRANSFORMER TEMPERATURE RELAY
	AUTOMATIC POWER FACTOR CORRECTION CAPACITOR SYSTEM, SIZE AS SHOWN, COMPLETE WITH TUNED INPUT FILTER. HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN		POWER METER
	RELAY FUNCTION NUMBER		DIGITAL TRIP UNIT WITH METERING FUNCTION
			SHUNT TRIP
			IP BASED GATEWAY FOR POWER MONITORING
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

4 SINGLE LINE DIAGRAM LEGEND 2
E001

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED COMBINATION COMMS./QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO DETAIL.
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (T-SLOT)		FLOOR POKE THROUGH COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (T-SLOT)		FLOOR POKE THROUGH AS ABOVE WITH AUDIO/VISUAL REQUIREMENT. REFER TO DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		WALL MOUNTED COMBINATION COMMS./DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, DEDICATED CIRCUIT		FLOOR OR CEILING MOUNTED (AS SHOWN) DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED, SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR POKE THROUGH COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		FLOOR POKE THROUGH AS ABOVE WITH AUDIO/VISUAL REQUIREMENT. REFER TO DETAIL.
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		SYSTEMS FURNITURE FEED POINT FOR POWER & COMMS. CABLING, LETTER DENOTES FEED LOCATION: W= WALL, F= FLOOR, P= PAC POLE, WM = WIREMOLD POLE, SPLIT CIRCUIT
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, 2 POLE, SPLIT CIRCUIT		CEILING MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	SPECIAL RECEPTACLE, TYPE AND DETAILS AS NOTED ON DRAWING.		CEILING MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED ABOVE COUNTER SIMPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		CEILING MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		FLOOR MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED SIMPLEX RECEPTACLE 250 VOLT, 30 AMP, CSA 14-30R		FLOOR MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 30 AMP, CSA 5-30R		RACEWAY RECEPTACLE, TYPE AS SPECIFIED C/W QUANTITY OF DEVICES INDICATED
	WALL MOUNTED SIMPLEX RECEPTACLE 250 VOLT, 50 AMP, CSA 14-50R		SERVICE POLE, TYPE AS SPECIFIED C/W QUANTITY OF DEVICES INDICATED
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

1 POWER LEGEND 1
E001

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL, RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		CONTACTOR
	FLUSH MOUNTED DOUBLE TUB PANEL, RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		GROUND ROD WITH INSPECTION PIT
	SURFACE MOUNTED SINGLE TUB PANEL, RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		THERMOSTAT-16mm (1/2") CONDUIT TO ACCESSIBLE CEILING SPACE
	SURFACE MOUNTED DOUBLE TUB PANEL, RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		ELECTRIC UNIT HEATER
	DISCONNECT		ELECTRIC BASEBOARD HEATER, 'X' DENOTES TYPE, REFER TO BASEBOARD HEATER SCHEDULE.
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT		GROUND BAR
	COMBINATION STARTER WITH INTEGRAL DISCONNECT		HAND DRYER HARD WIRED CONNECTION
	DIRECT CONNECTION		METER
	DIRECT CONNECTION C/W DISCONNECT		RELAY
	MOTOR C/W DISCONNECT		PULL BOX
	MOTOR C/W RELAY DISCONNECT		GROUND BUS
	MOTOR C/W COMBINATION STARTER WITH INTEGRAL DISCONNECT		DENOTES RECEPTACLE TYPE, REFER TO RECEPTACLE SCHEDULE.
	VARIABLE FREQUENCY DRIVE, LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. MOTOR, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		UTILITY METERING CABINET
	VARIABLE FREQUENCY DRIVE, LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		DOOR BELL/CHIME
	HARMONIC FILTER (SUPPLIED BY MECH. CONTRACTOR UNLESS NOTED OTHERWISE.) LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR.		CLOCK WALL MOUNTED
			CLOCK CEILING MOUNTED
			PUSH BUTTON
			MOTOR
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

2 POWER LEGEND 2
E001

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES			
REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.19	
2	ISSUED FOR TENDER	2021.08.27	
3	ISSUED FOR BUILDING PERMIT	2021.09.09	
4	ISSUED FOR REVISED TENDER/BUILDING PERMIT	2022.01.31	
5	ISSUED FOR CONSTRUCTION	2022.07.18	
6			
7			
8			

MJMA
macleanen jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmachitects.com

TRITON ENGINEERING SERVICES LTD
CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

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

Smith + Andersen
1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 9104 smithanderson.com

SAYERS FOOD LIMITED
132 BURLINGHAM STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW	SEAL
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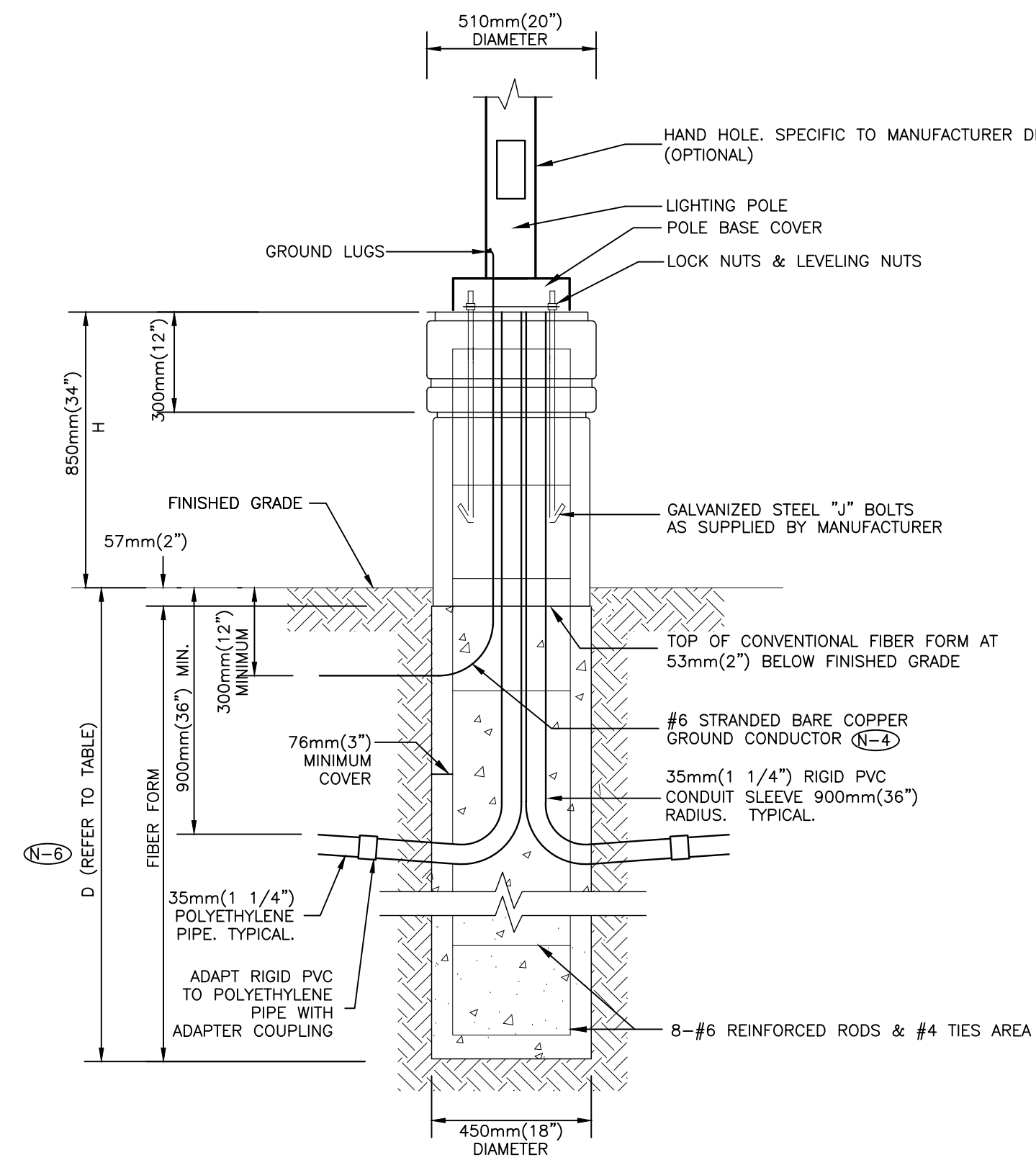
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY**

DRAWING TITLE
LEGEND

SCALE
NTS
DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
DRAWING NUMBER

E001

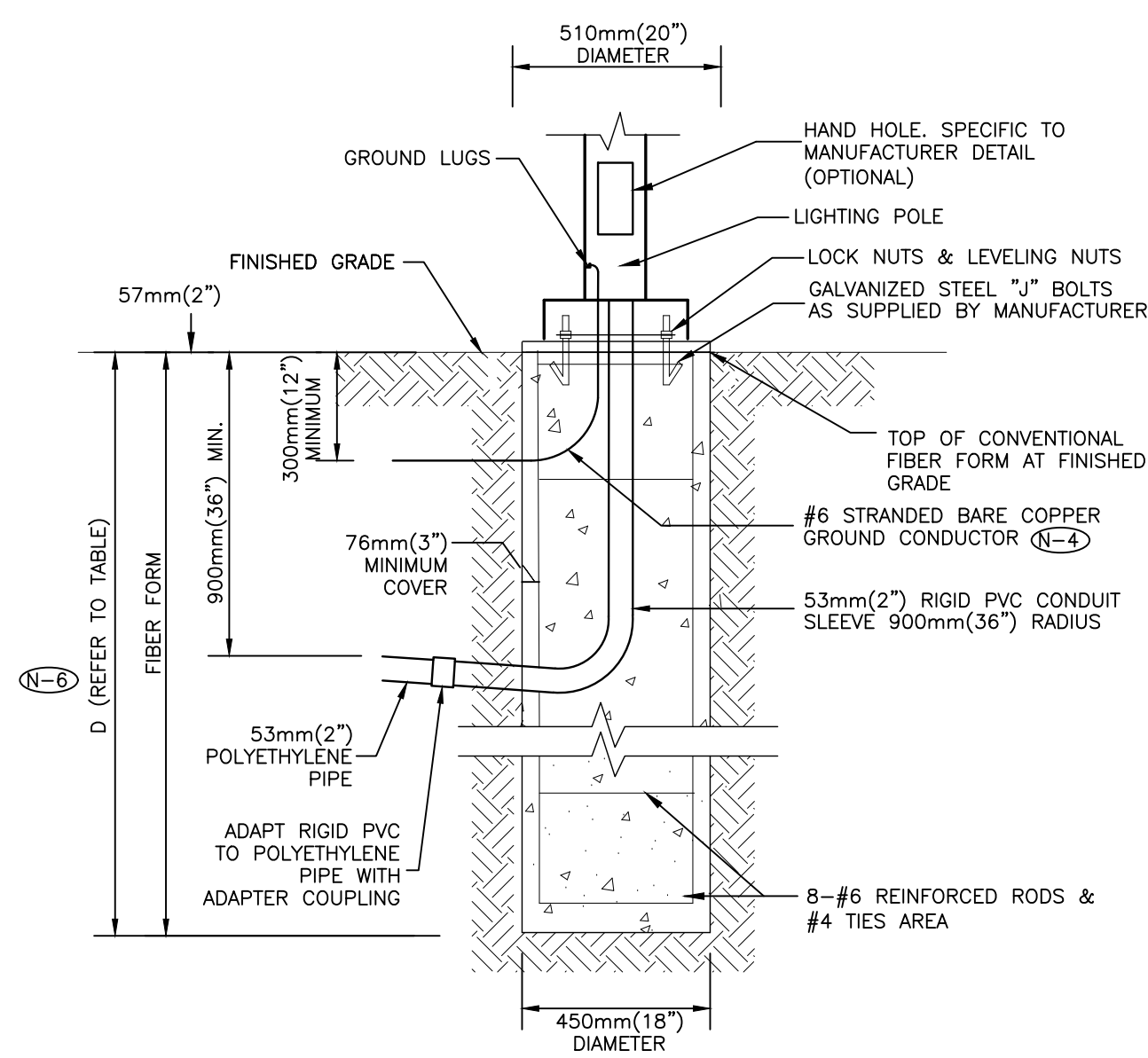


NOTES:

- (N-1) TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL.
- (N-2) CLASS OF CONCRETE SHALL BE 25MPa (3500 P.S.I.) CONCRETE SHALL BE VIBRATED.
- (N-3) MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
- (N-4) PROVIDE A 20mm (0.75") DIAMETER 3000mm(10') STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AS SPECIFIED ON PLAN AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
- (N-5) CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
- (N-6) SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
- (N-7) FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "A"FORM.
- (N-8) CHAMFER ALL EDGES ABOVE GRADE.
- (N-9) SOIL BEARING CAPACITY AND CONCRETE BASE DIMENSIONS TO BE CONFIRMED BY ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- (N-10) FOR FINISHING, REFER TO ARCHITECTURAL PLANS.
- (N-11) HEIGHTS VARIES, REFER TO ARCHITECTURAL PLANS.
- (N-12) FOR EXACT CONCRETE, REBAR, AND DEPTH SEE STRUCTURAL ENGINEERING DRAWINGS.
- (N-13) POLE TO BE GROUNDED.
- (N-14) THIS DETAIL IS PROVIDED FOR INSTALLATION REQUIREMENTS WHERE THE ARCHITECTURAL DRAWINGS DO NOT SPECIFY A BASE DETAIL. THIS DETAIL SHALL BE USED FOR ELECTRICAL INSTALLATION REQUIREMENTS. COORDINATE ALL SITE WORK WITH THE ARCHITECTURAL DRAWINGS.

POLE LENGTH		BASE BURIAL DEPTH D		REINFORCED ROD LENGTH	
(ft.)	(m)	(ft.)	(m)	(ft.)	(m)
10	3.0	5	1.50	H + 4.5	H + 1.35
19	5.6	7	2.15	H + 6.5	H + 2
23	7.0	7	2.15	H + 6.5	H + 2
25	7.5	7	2.15	H + 6.5	H + 2
29	8.7	8	2.45	H + 7.5	H + 2.3
30	9.0	8	2.45	H + 7.5	H + 2.3
35	10.5	8.5	2.60	H + 8.0	H + 2.45

4 HIGH BASE ARTFORM LIGHTING POLE, FLAGPOLE, FLOODLIGHT, SIGN AND CONCRETE BASE FOR PARKING AREAS
SCALE: N.T.S.

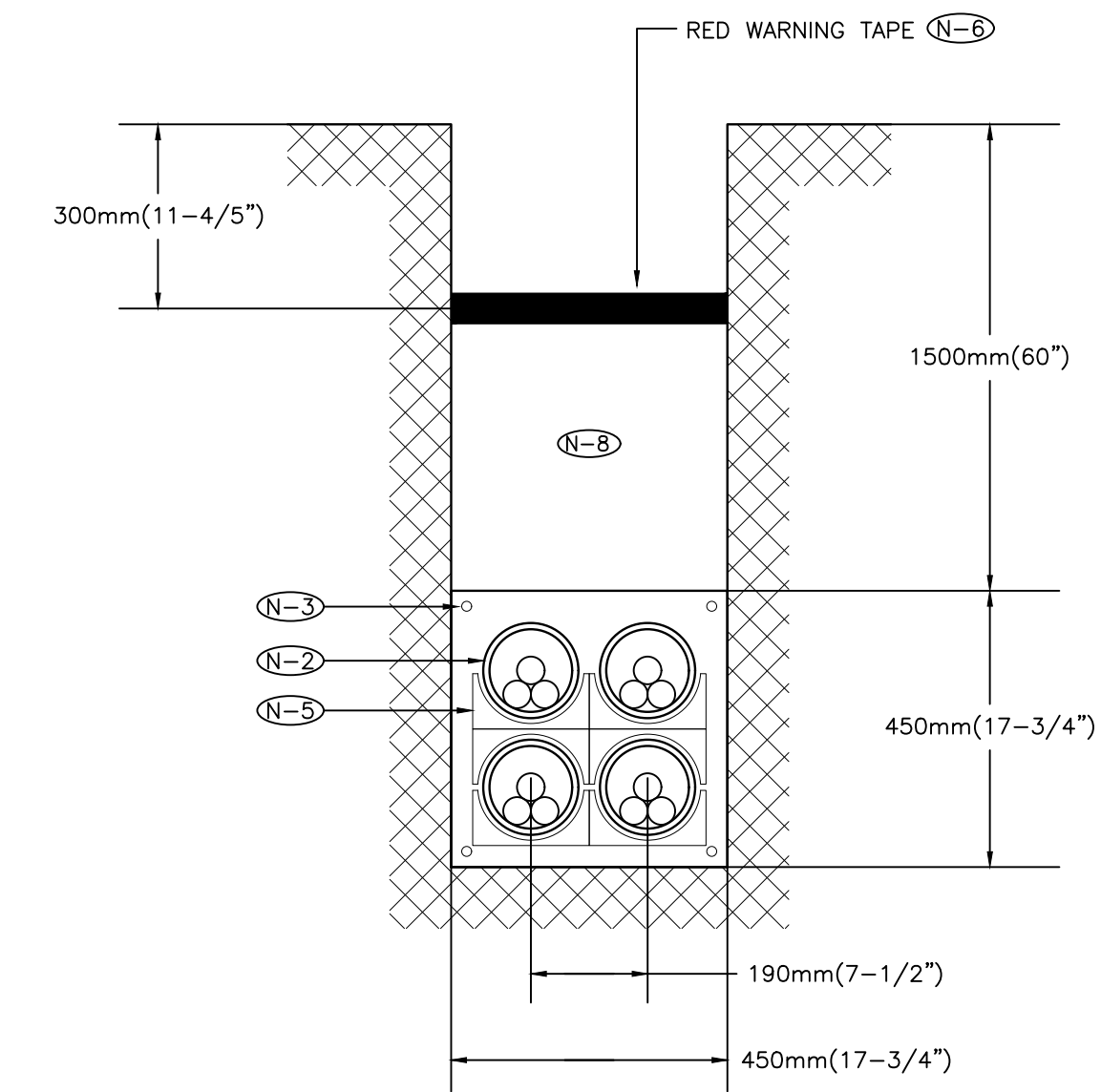


NOTES:

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- (N-4) PROVIDE A 20mm (0.75") DIAMETER 3000mm(10') STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AS SPECIFIED ON PLAN AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
- (N-5) CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
- (N-6) SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
- (N-7) CHAMFER ALL EDGES ABOVE GRADE.
- (N-8) SOIL BEARING CAPACITY AND CONCRETE BASE DIMENSIONS TO BE CONFIRMED BY ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- (N-9) FOR FINISHING, REFER TO ARCHITECTURAL PLANS.
- (N-10) HEIGHTS VARY, REFER TO ARCHITECTURAL PLANS.
- (N-11) FOR EXACT CONCRETE, REBAR, AND DEPTH SEE STRUCTURAL ENGINEERING DRAWINGS.
- (N-12) POLE TO BE GROUNDED.
- (N-13) THIS DETAIL IS PROVIDED FOR INSTALLATION REQUIREMENTS WHERE THE ARCHITECTURAL DRAWINGS DO NOT SPECIFY A BASE DETAIL. THIS DETAIL SHALL BE USED FOR ELECTRICAL INSTALLATION REQUIREMENTS. COORDINATE ALL SITE WORK WITH THE ARCHITECTURAL DRAWINGS.

POLE LENGTH		BASE BURIAL DEPTH D		REINFORCED ROD LENGTH	
(ft.)	(m)	(ft.)	(m)	(ft.)	(m)
10	3.0	5	1.50	H + 4.5	H + 1.35
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25	7.5	7	2.15	H + 6.5	H + 2
29	8.7	8	2.45	H + 7.5	H + 2.3
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35	10.5	8.5	2.60	H + 8.0	H + 2.45

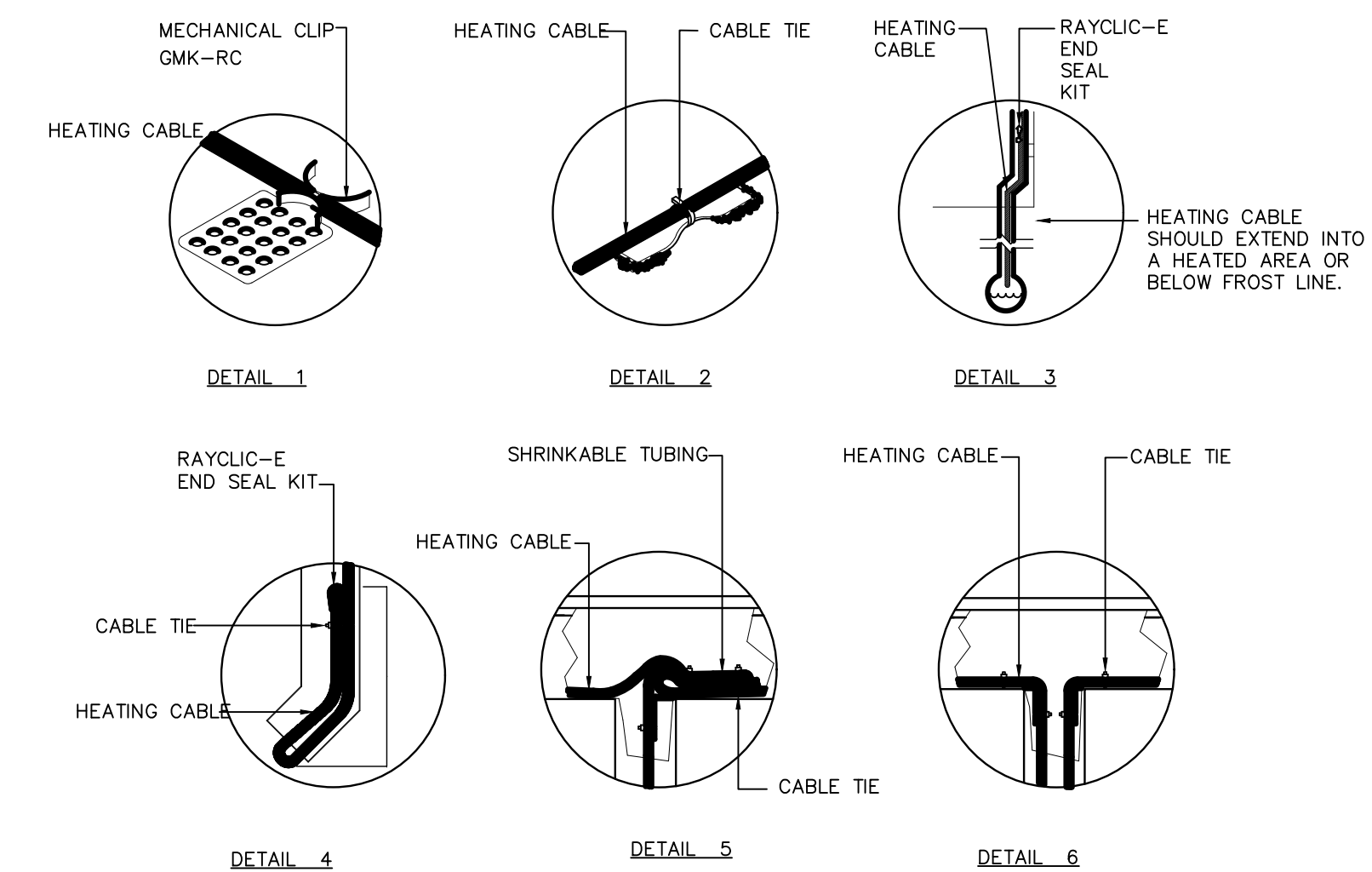
5 LOW BASE PEDESTRIAN WALKWAY LIGHTING POLE ON FINISHED GRADE CONCRETE BASE DETAIL
SCALE: N.T.S.



NOTES:

- (N-1) 9mm (3/8") POLYPROPYLENE ROPE REQUIRED IN ALL DUCTS
- (N-2) REFER TO SITE PLAN FOR CONDUIT SIZE IN 20 MPa CONCRETE. FOR INCOMING SERVICES TO RIVER VALLEY PARK SOUTH DUCTS ARE TO BE 103mm (4") I.D.
- (N-3) 16mm (1/2") REINFORCING RODS
- (N-4) PROVIDE BELL ENDS AT TERMINATION OF ALL DUCTS
- (N-5) PRE-FABRICATES DUCT SPACER AND HOLDERS
- (N-6) RED WARNING TAPE TO EXTEND THE FULL WIDTH OF TRENCH
- (N-7) DUCT BANK TO BE CONSTRUCTED TO HYDRO ONE REQUIREMENTS
- (N-8) CLEAN BACKFILL MATERIAL

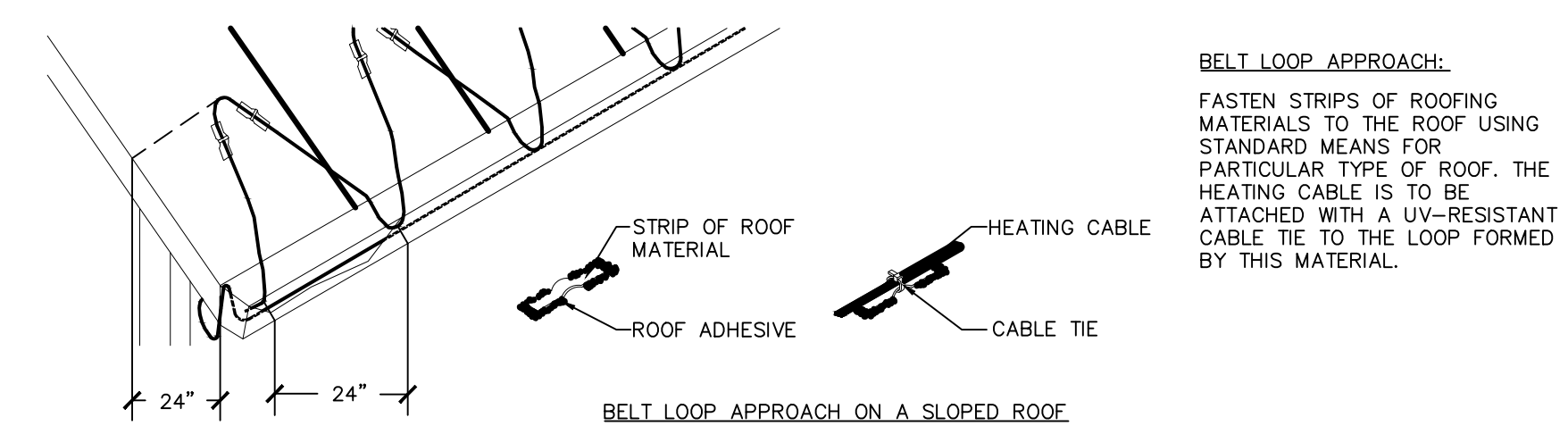
1 PRIMARY CONCRETE ENCASED DUCT BANK - 2x2
N.T.S.



NOTES:

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. DO NOT SCALE DRAWINGS.

2 ROOF AND CUTTER DE-ICING SYSTEM DETAILS-ROOF CLIPS, GUTTER DOWN SPOUT, SPLICE KIT
N.T.S.



NOTES:

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. DO NOT SCALE DRAWINGS.

3 ROOF AND GUTTER DE-ICING - DESIGN-BELT LOOP APPROACH
N.T.S.

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

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MJMA

maclean jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416-593-5300 FAX 416-593-4840

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1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416-487-8151



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1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 9104 www.smithanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

ELECTRICAL DETAILS

SCALE

1:100

DATE

JUNE 16, 2021

PROJECT NUMBER

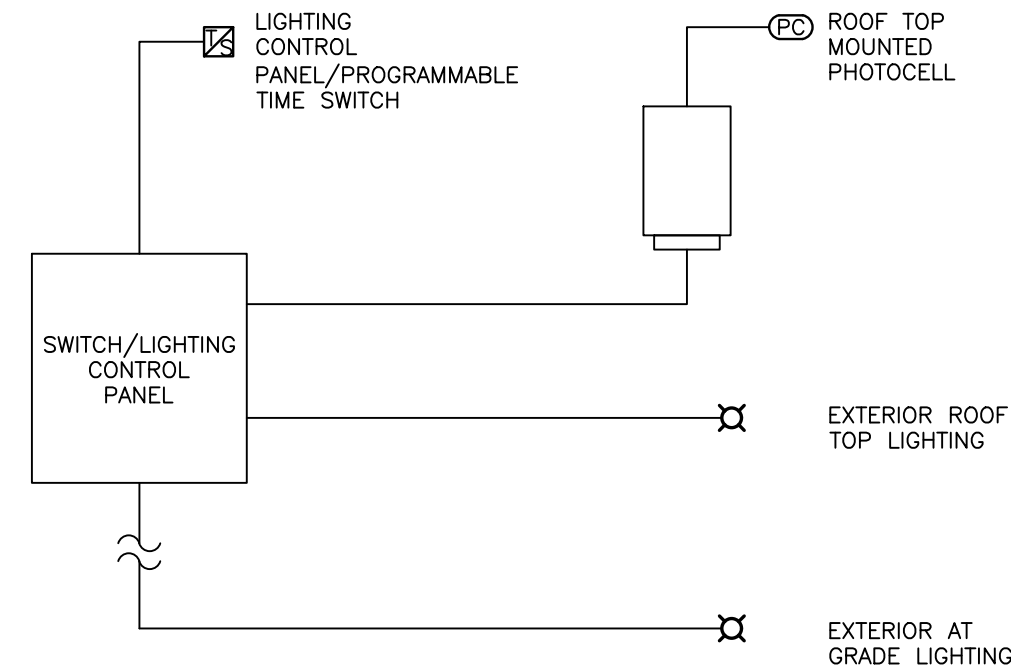
21376.000.e001

DRAWING NUMBER

E002

LIGHTING CONTROL SCHEDULE					
TYPE	SYMBOL	DESCRIPTION	MAUFACTURER: CAT. #	APPLICATION	REMARKS
A	(S)	HIGH BAY COLD TEMPERATURE PASSIVE INFRARED OCCUPANCY SENSOR	HB-300C WITH HBL2 LENS	LOADING DOCK MEAT PREP PRODUCE PREP	- STEM MOUNT - MOUNT SENSOR ALIGNED WITH LIGHT FIXTURES
B	(S)	PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR	PW-301	WASHROOM	
C	(S)	PASSIVE INFRARED CEILING SENSOR	CI-305	DELI/BAKERY	
D	(S)	DUAL TECHNOLOGY CEILING SENSOR	DT-305	OFFICE STORAGE STAFF LOUNGE	
E	(S)	ULTRASONIC CEILING SENSOR	UT-305-3 HALLWAY	CORRIDOR	
PC	(C)	PHOTOCELL	LMPO-200 c/w LMIN-104	EXTERIOR	
		RELAY PANEL	LMCP8-10V-115/27 7 C/W LENC8S and LMCT-100-2	EXTERIOR	

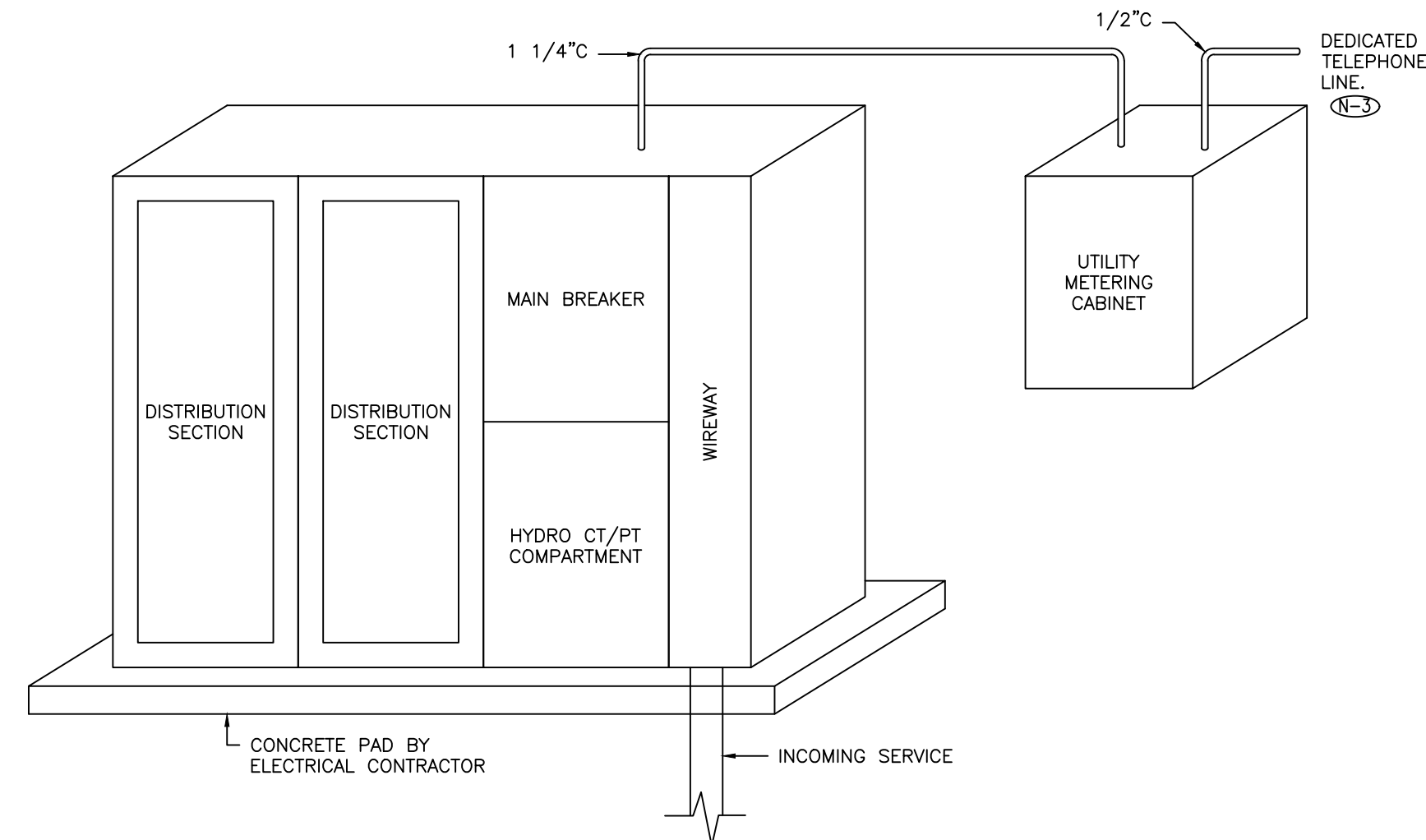
5 LIGHTING CONTROL SCHEDULE N.T.S.



GENERAL NOTES:

- REFER TO FLOOR PLANS FOR LOCATION OF LIGHTING CONTROL DEVICES.
- TIME SWITCH/LIGHTING CONTROL PANEL TO SIGNAL EXTERIOR LIGHTING ON ROOF AND AT GRADE TO TURN ON AND OFF BASED ON TIME SCHEDULE AND EXTERIOR PHOTOCELL CONTROL. CONTRACTOR TO COORDINATE PROGRAMMING OF TIMER WITH OWNER.

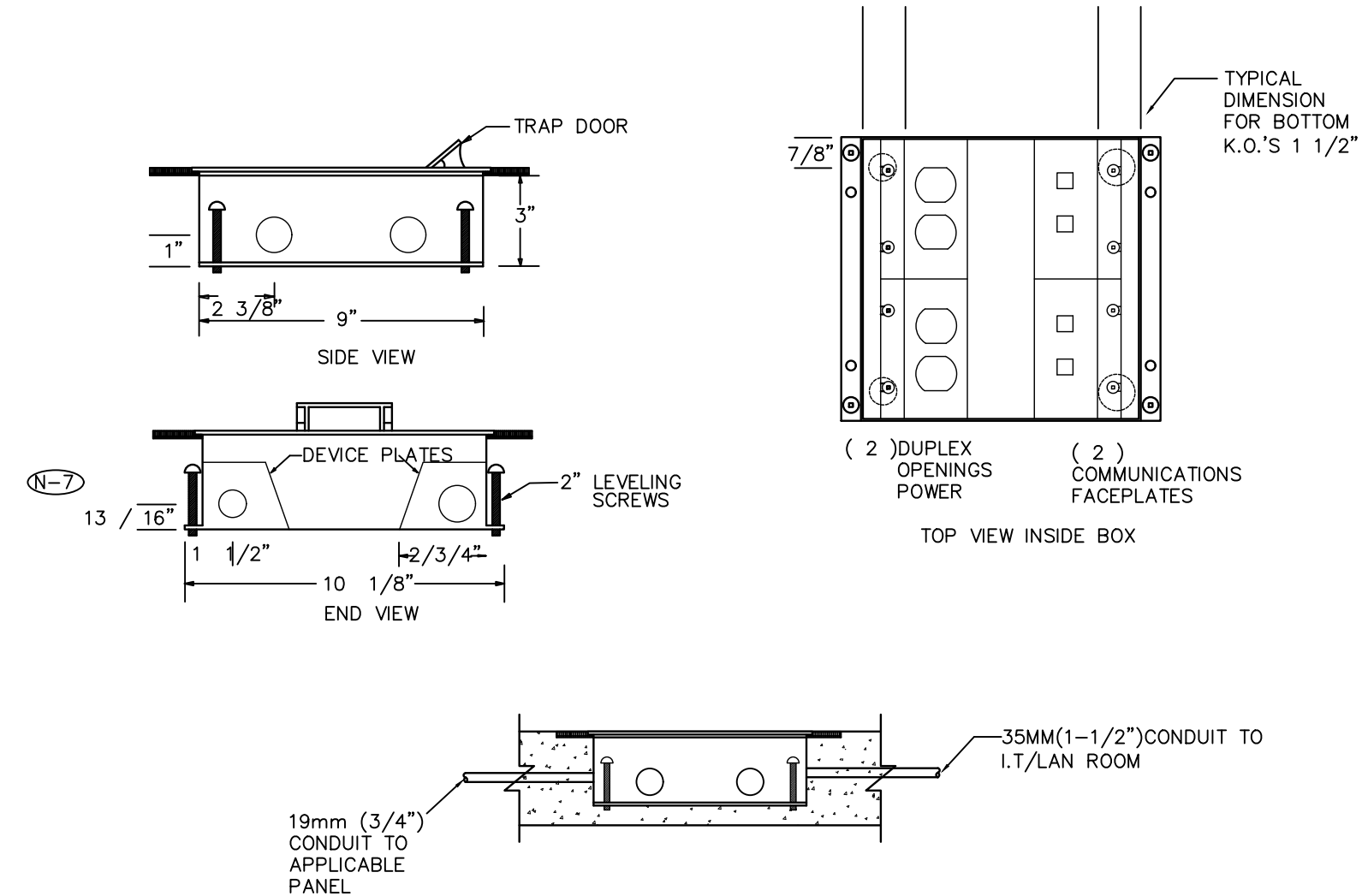
6 TYPICAL OUTDOOR LIGHTING CONTROL DIAGRAM N.T.S.



NOTES:

- WIREWAY LUGS PADS MUST BE COPPER.
- C.T. COMPARTMENT DOORS AND WIREWAY ARE TO BE HINGED AND PADLOCKABLE
- PROVIDE DEDICATED TELEPHONE LINE IN METERING CABINET IN A 19mm(1/2") CONDUIT.

7 MAIN SERVICE ENTRANCE SWITCHBOARD AND METERING CABINET ELEVATION DETAIL N.T.S.

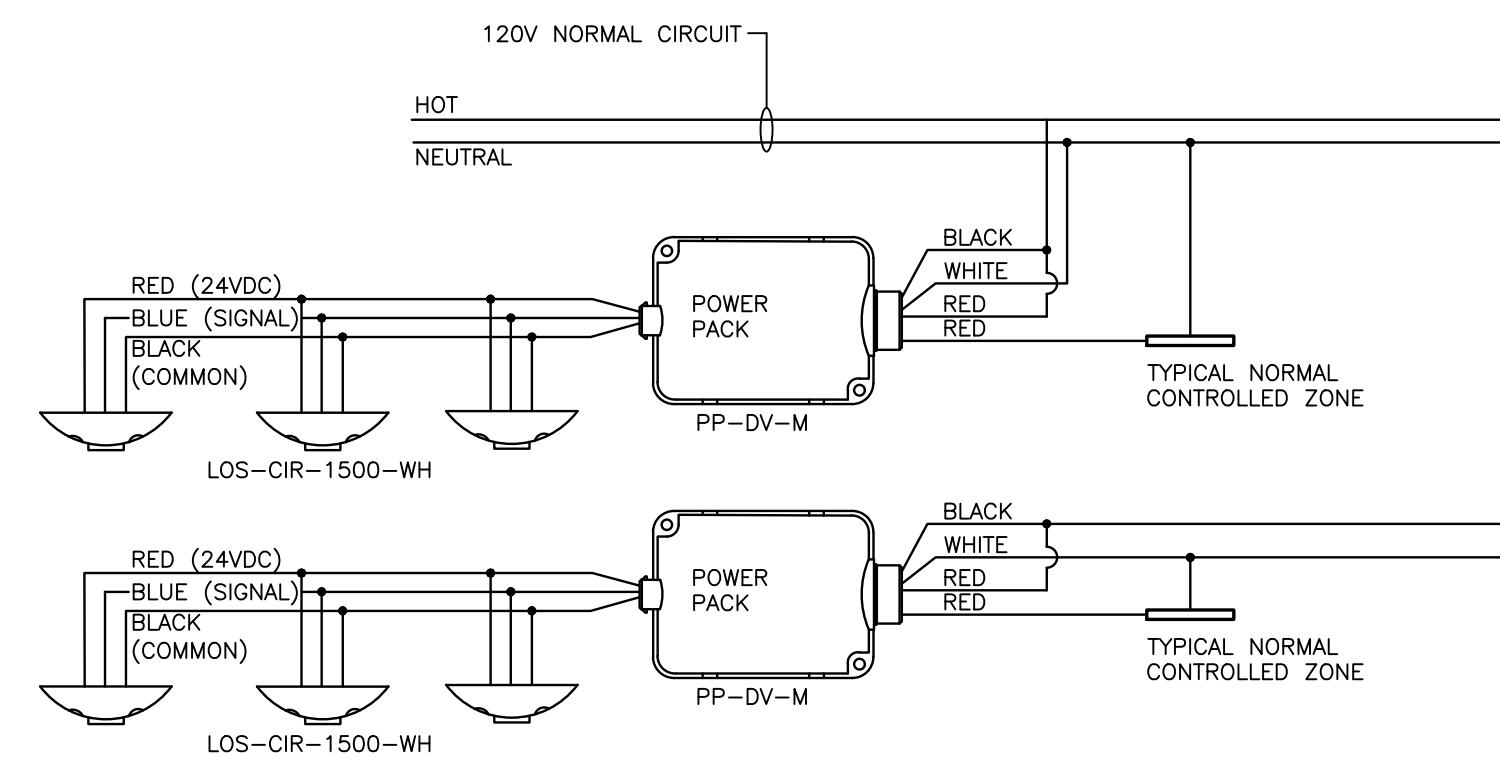


NOTES:

- CO-ORDINATE EXACT LOCATIONS OF FLOOR MONUMENTS ON SITE PRIOR TO ROUGH-IN.
- 'FB1' TYPE FLOOR OUTLETS SHALL BE "WELLMARK 400B SERIES CONCRETE FLOOR BOX" OR APPROVED EQUAL.
- PROVIDE CONNECTOR C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- ALL ITEMS BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
- BOX TO BE CONFIGURED TO ACCEPT BENDING RADIUS OF CAT 6 COMMUNICATION CABLES.
- ALL CONDUIT IS TO ENTER FROM ENDS, NOT FROM THE SIDE.

DRAWING SYMBOLS

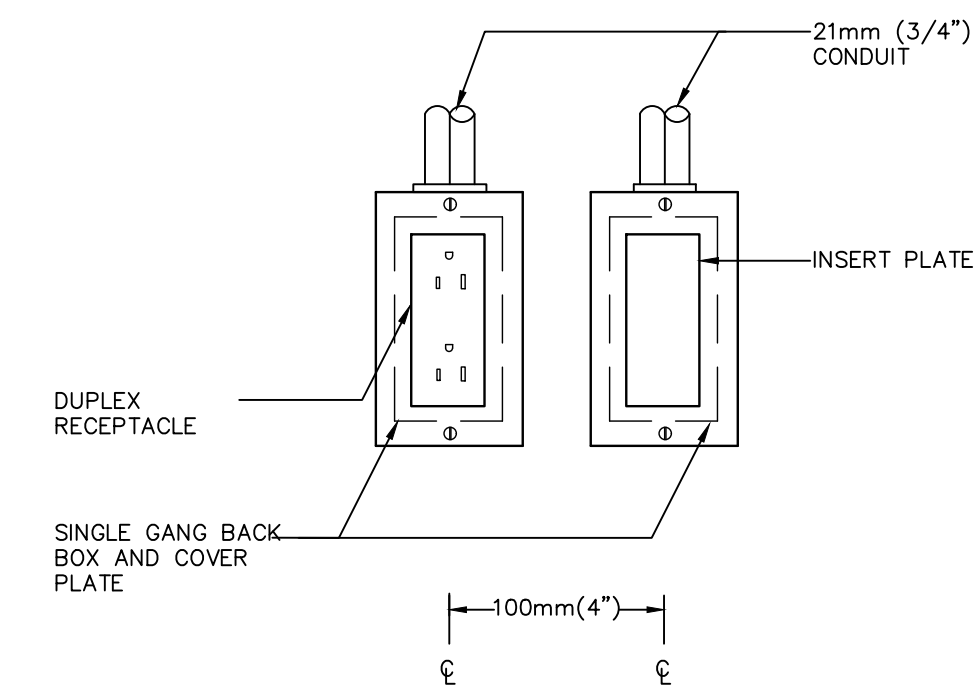
3 FLOOR BOX DETAIL (IN SLAB) N.T.S.



GENERAL NOTES:

- LIGHTING CONTROL SCHEMATIC TO MEET ASHRAE 90.1-2013. COMMON SPACE TYPES 'SALES AREA', 'FOOD PREPARATION AREA', 'LOADING DOCK', 'CORRIDOR', 'ELECTRICAL/MECHANICAL ROOM', 'OFFICE', 'STORAGE ROOM', 'INTERIOR', 'LOUNGE/BREAKROOM'.
- REFER TO 'LIGHTING SEQUENCE OF OPERATION' IN ELECTRICAL SPECIFICATION FOR SEQUENCING REQUIREMENTS.
- LIGHTING IN ROOM SHALL BE NON-DIMMABLE.
- LIGHTING CONTROL MANUFACTURER TO CONFIRM ALL PRODUCT CAT# DURING SHOP DRAWING STAGE.
- DETAIL IS SCHEMATIC. REFER TO MANUFACTURERS INSTRUCTION FOR DETAILED WIRING DIAGRAM.
- BASIS OF DESIGN IS A SALEX LIGHTING CONTROL SYSTEM. ELECTRICAL CONTRACTOR TO PROVIDE REVISED CONTROLS SCHEMATICS, TO BE REVIEWED BY ENGINEER. FOR ANY PROPOSED ALTERNATES, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE THAT ANY ALTERNATE MEET THE INTENDED SEQUENCE OF OPERATION, ENERGY CODE REQUIREMENTS AND ENSURE COMPATIBILITY WITH LUMINAIRES.
- MOTION SENSORS SHALL NOT CONTROL AN AREA MORE THAN 334M2 (3600I2)
- DRAWING SYMBOLS DEPICT WHAT THEY APPEAR ON THE FLOOR PLAN TO SHOW LIGHTING CONTROL DETAIL. REFER TO LIGHTING CONTROL DETAIL 5/E003 FOR OCCUPANCY SENSOR TYPE AND DRAWING SYMBOL. REFER TO FLOOR PLANS E400 SERIES DRAWINGS FOR EXACT LOCATION AND QUANTITY OF ALL LIGHTING CONTROL DEVICES.
- MAXIMUM OF THREE (3) OCCUPANCY SENSORS TO BE CONNECTED TO EACH POWERPAK. REFER TO MANUFACTURER INSTRUCTION MANUAL FOR DETAILS.

2 OCCUPANCY SENSOR WIRING DIAGRAM N.T.S.



DRAWING SYMBOLS

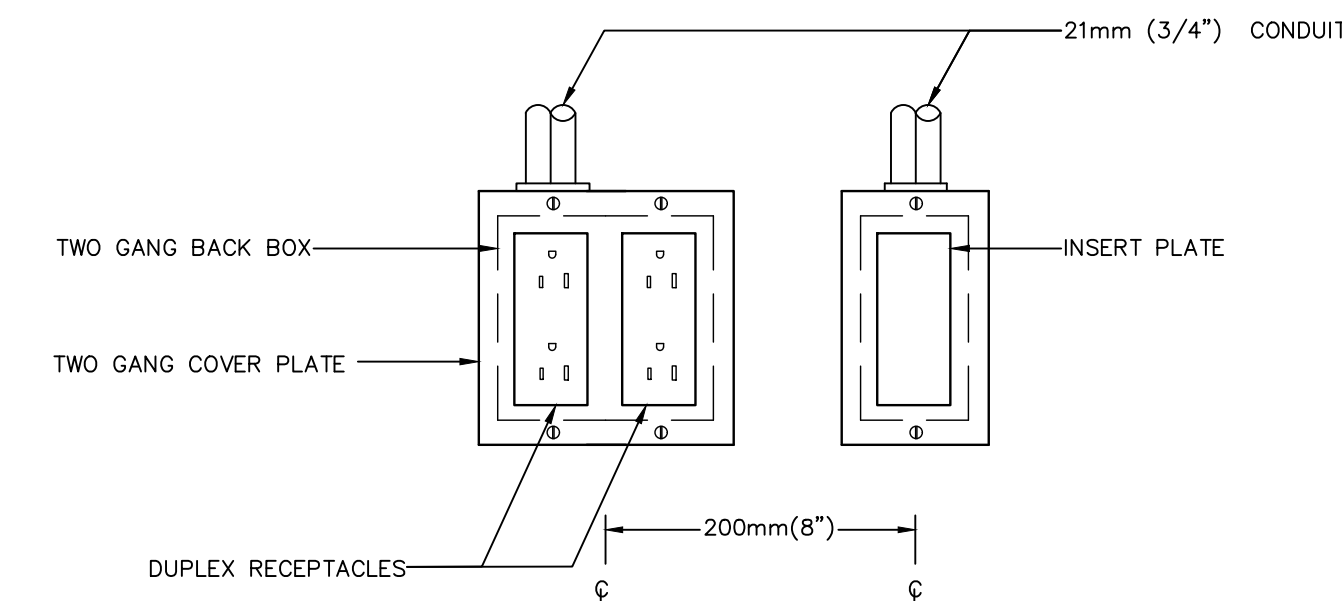
GENERAL NOTES:

- PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.

DETAIL NOTES:

- REFER TO SPECIFICATIONS FOR COORDINATION BETWEEN ELECTRICAL AND COMMUNICATIONS CONTRACTORS.
- COMMUNICATIONS CONDUIT TO RUN BACK TO 2ND FLOOR IT ROOM.

1 SINGLE GANG DUPLEX RECEPTACLE W/ COMMUNICATION OUTLETS N.T.S.



DRAWING SYMBOLS

GENERAL NOTES:

- PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.

DETAIL NOTES:

- REFER TO SPECIFICATIONS FOR COORDINATION BETWEEN ELECTRICAL AND COMMUNICATIONS CONTRACTORS.
- COMMUNICATIONS CONDUIT TO RUN BACK TO 2ND FLOOR IT ROOM.

2 QUAD DUPLEX RECEPTACLE W/ COMMUNICATION OUTLETS N.T.S.

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.17	
2	ISSUED FOR TENDER	2021.08.27	
3	ISSUED FOR BUILDING PERMIT	2021.09.09	
4	ISSUED FOR ADD-ED1	2021.09.15	
5	ISSUED FOR REVISED TENDER/BUILDING PERMIT	2022.01.31	
6	ISSUED FOR CONSTRUCTION	2022.07.18	
7			
8			

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macleanman jaunkalns miller architects
425 adelside street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

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CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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134 PIETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151



Smith + Andersen

1100 - 100 Sheppard Ave. East, Toronto, ON, M2N 6N5
416 487 8151 | 416 487 9104 smithanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

ELECTRICAL DETAILS

SCALE

1:100

DATE

JUNE 16, 2021

PROJECT NUMBER

21376.000.e001

DRAWING NUMBER

E003

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR REVISED TENDER/BUILDING PERMIT	2022.01.31	
2	ISSUED FOR CONSTRUCTION	2022.07.18	
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maclean jaunkains miller architects
 425 adelside street west level 6
 toronto ontario m5v 3c1
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 TEL 519 941 0330 FAX 519 941 1830

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 134 PIETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416-593-5300 FAX 416-593-4840

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 TORONTO, ONTARIO, M2N 6N5
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 416-487-8151 | 416-487-8154 | smithanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
 T: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW	SEAL
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PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
ELECTRICAL DETAILS

SCALE
 1:100

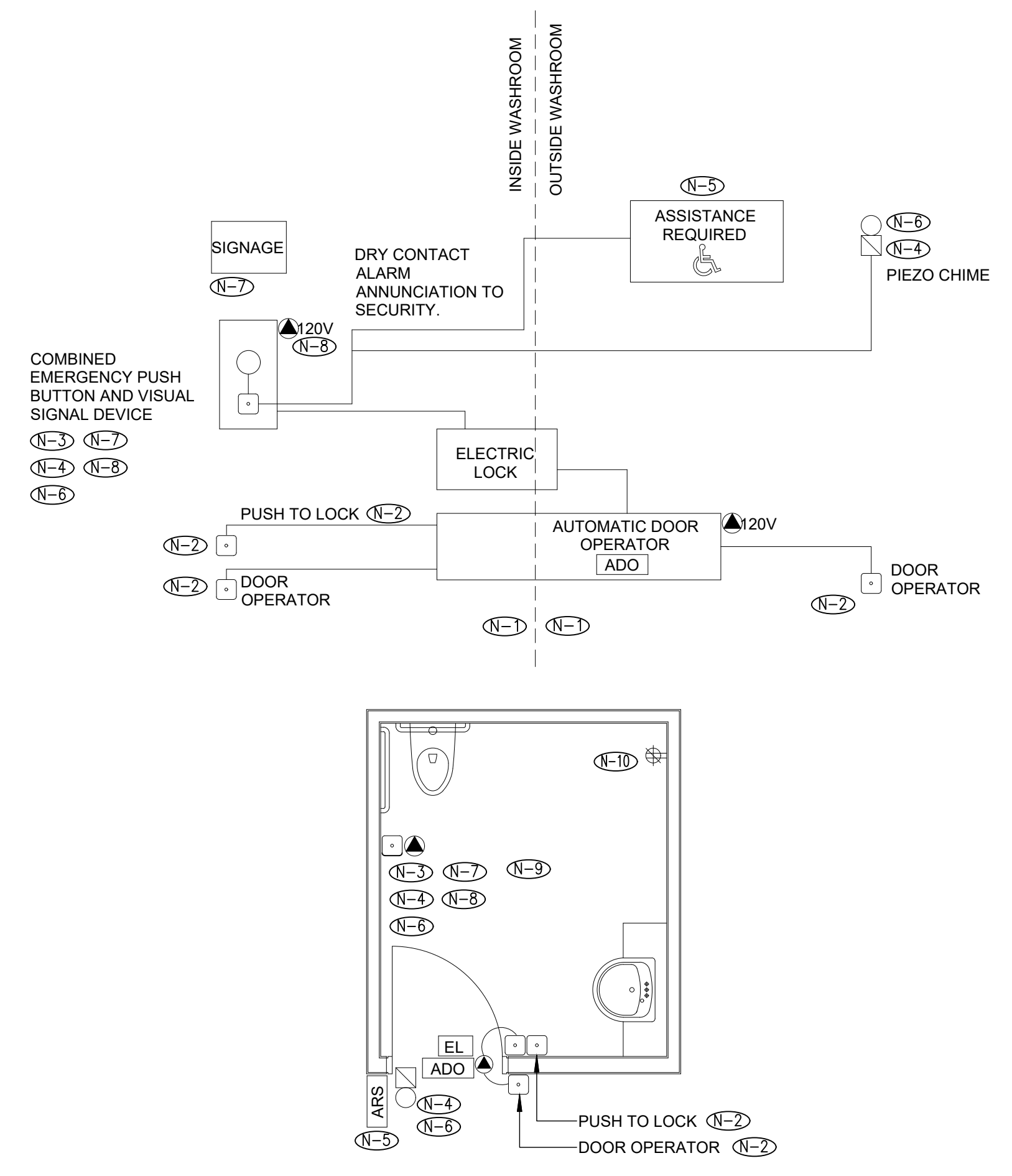
DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
 DRAWING NUMBER

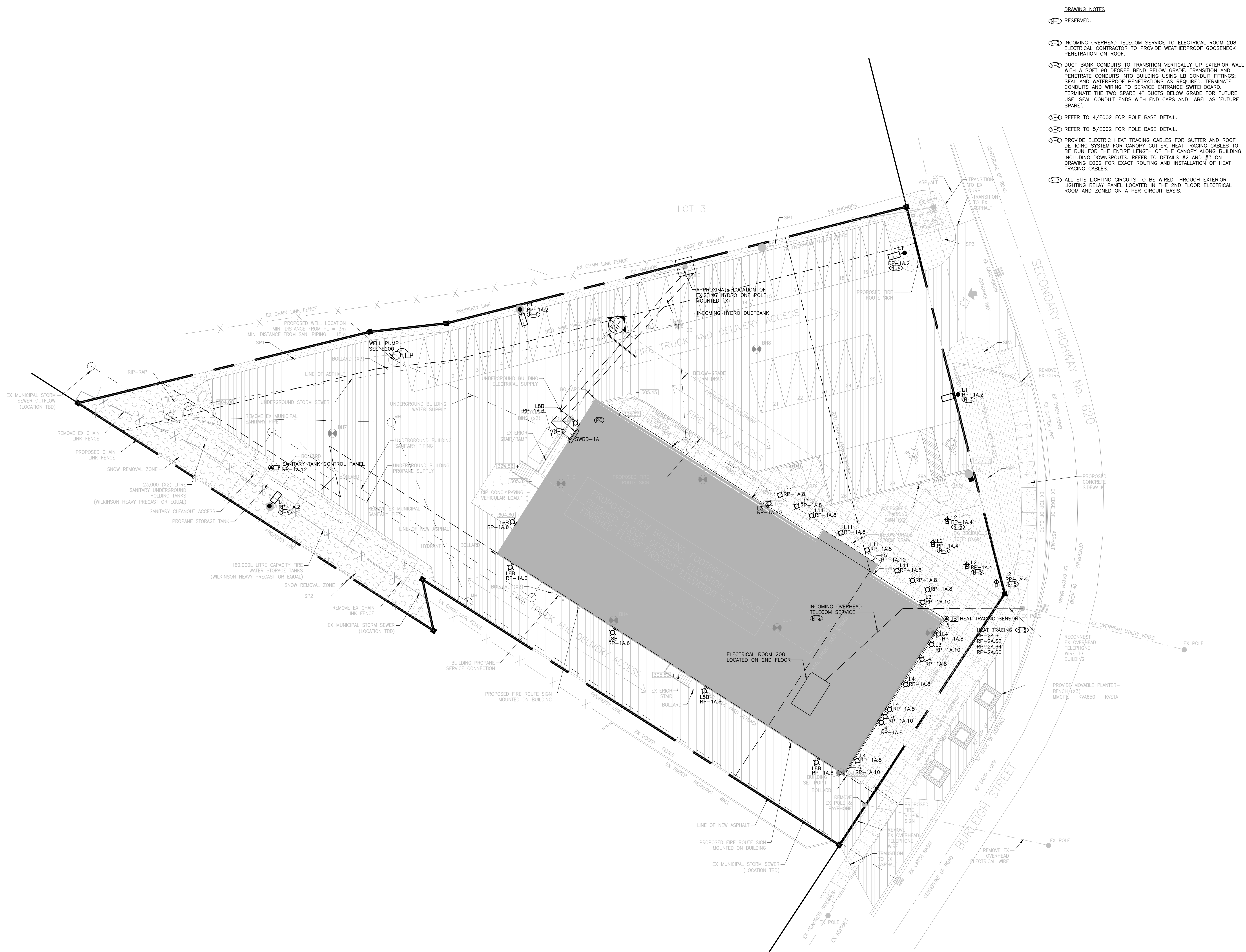
E004

DRAWING NOTES:

- (N-1) MINIMUM SIZE CONDUITS SHALL BE 21mmC (3/4") UNLESS OTHERWISE NOTED.
- (N-2) ALL PUSH BUTTONS ARE TO BE MOUNTED AT 1050mm ABOVE FINISHED FLOOR AND ARE TO BE OPERABLE USING A CLOSED FIST.
- (N-3) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL EMPTY CONDUIT COMPLETE WITH PULL STRINGS AND BACK BOXES FOR COMBINATION EMERGENCY PUSH BUTTON AND VISUAL SIGNAL DEVICE INSIDE OF WASHROOM. SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE.
- (N-4) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WIRING AND CONDUIT BACK TO LOCAL INTRUSION PANEL.
- (N-5) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL EMPTY CONDUIT COMPLETE WITH PULL STRINGS AND BACK BOXES FOR 'ASSISTANCE REQUIRED' LED ANNUNCIATOR WITH ADJUSTABLE SOUNDER. SUBMIT SHOP DRAWINGS FOR ARCHITECT AND ELECTRICAL CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE.
- (N-6) ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, POWER SUPPLIES, AND CONNECTIONS DETAILED ABOVE FOR ALL UNIVERSAL WASHROOMS. ALL WIRING TO BE INSTALLED IN CONDUIT.
- (N-7) LAMACOID SIGN ABOVE THE EMERGENCY BUTTON THAT READS 'IN THE EVENT OF AN EMERGENCY, PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE', PROVIDED BY OTHERS. SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING AND RELEASE.
- (N-8) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 24 VOLT DC POWER SUPPLY IN A SEPARATE JUNCTION BOX WITH SUFFICIENT CAPACITY TO POWER ALL EMERGENCY CALL SYSTEM COMPONENTS INCLUDING ALL AUDIBLE AND VISUAL INDICATORS AS WELL AS DOOR ELECTRIC LOCK RELEASE. ADDITIONALLY, POWER SUPPLY TO HAVE 50% SPARE CAPACITY FOR FUTURE USE. POWER SUPPLY INPUT TO BE 120V.
- (N-9) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS.
- (N-10) 20A GFI RECEPTACLE FOR ADULT CHANGE TABLE.



1 BARRIER FREE WASHROOM - CONDUIT INFRASTRUCTURE
 ESD.01



DRAWING NOTES

- (N-1) RESERVED.
- (N-2) INCOMING OVERHEAD TELECOM SERVICE TO ELECTRICAL ROOM 208. ELECTRICAL CONTRACTOR TO PROVIDE WEATHERPROOF GODSNECK PENETRATION ON ROOF.
- (N-3) DUCT BANK CONDUITS TO TRANSITION VERTICALLY UP EXTERIOR WALL WITH A SOFT 90 DEGREE BEND BELOW GRADE. TRANSITION AND PENETRATE CONDUITS INTO BUILDING USING LB CONDUIT FITTINGS; SEAL AND WATERPROOF PENETRATIONS AS REQUIRED. TERMINATE CONDUITS AND WIRING TO SERVICE ENTRANCE SWITCHBOARD. TERMINATE THE TWO SPARE 4" DUCTS BELOW GRADE FOR FUTURE USE. SEAL CONDUIT ENDS WITH END CAPS AND LABEL AS 'FUTURE SPARE'.
- (N-4) REFER TO 4/E002 FOR POLE BASE DETAIL.
- (N-5) REFER TO 5/E002 FOR POLE BASE DETAIL.
- (N-6) PROVIDE ELECTRIC HEAT TRACING CABLES FOR GUTTER AND ROOF DE-ICING SYSTEM FOR CANOPY GUTTER. HEAT TRACING CABLES TO BE RUN FOR THE ENTIRE LENGTH OF THE CANOPY ALONG BUILDING, INCLUDING DOWNSPOUTS. REFER TO DETAILS #2 AND #3 ON DRAWING E002 FOR EXACT ROUTING AND INSTALLATION OF HEAT TRACING CABLES.
- (N-7) ALL SITE LIGHTING CIRCUITS TO BE WIRED THROUGH EXTERIOR LIGHTING RELAY PANEL LOCATED IN THE 2ND FLOOR ELECTRICAL ROOM AND ZONED ON A PER CIRCUIT BASIS.

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7	ISSUED FOR SI-E-01	2022.06.15	
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MJMA
 maclean jaunkals miller architects
 425 adelade street west level 6
 toronto ontario m5v 3c1
 416 593 6796
 www.mjmaarchitects.com

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 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
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 1100 - 100 SHEPPARD AVENUE EAST
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SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE
 SITE PLAN - ELECTRICAL

SCALE
 1:200

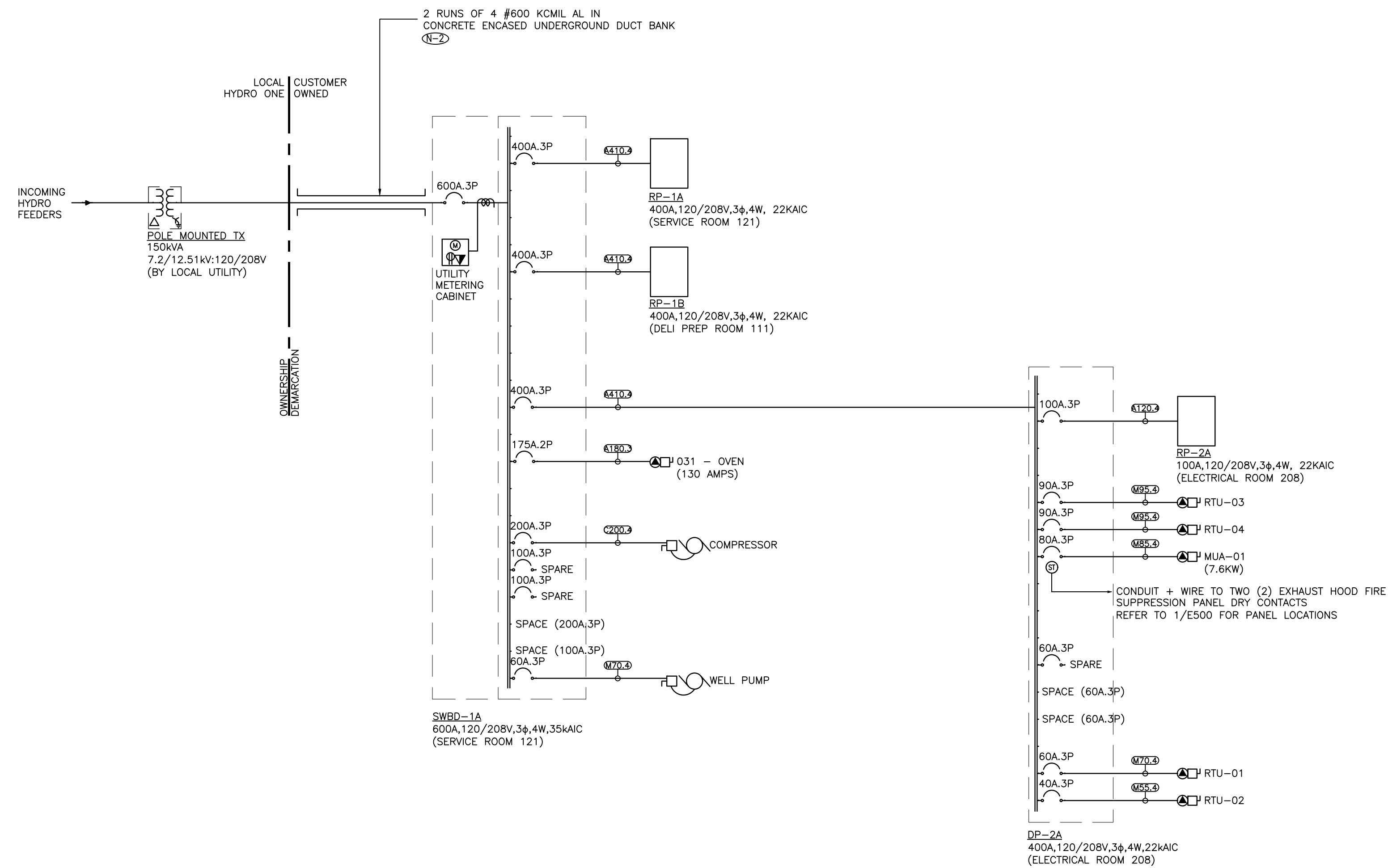
DATE
 JUNE 16, 2021

PROJECT NUMBER
 21376.000.e001

DRAWING NUMBER
 E100

GENERAL NOTES:

- (1-D) CONTRACTOR SHALL SUBMIT THE PROTECTION COORDINATION STUDY REPORT AND SHOP DRAWINGS OF THE MAIN SWITCHBOARD TO THE LOCAL HYDRO UTILITY FOR REVIEW AND APPROVAL. ALSO, SUBMIT POWER SYSTEMS STUDY SHOP DRAWING TO ELECTRICAL ENGINEER FOR REVIEW PRIOR TO SUBMISSION OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT SHOP DRAWINGS. ELECTRICAL DISTRIBUTION SHOP DRAWINGS WILL NOT BE REVIEWED UNTIL POWER SYSTEMS STUDY SHOP DRAWING IS REVIEWED FIRST.
- (1-E-2) INSTALL SECONDARY CONDUCTORS IN A 1Hx2W CONFIGURATION. THE OTHER 2 DUCTS ARE TO BE RESERVED AS FUTURE SPARE DUCTS.



FEEDER SCHEDULE (PER TABLE 4 CEC (2018) AND 4-006, 60C (FOR EQUIPMENT 100A AND BELOW), 75C AND TABLE 68, 1000V WITHOUT JACKET, TABLE 6C)											
M-COPPER (MOTOR), C-COPPER, A-ALUMINUM, 3-(3WIRE+BOND), 4-(4WIRE+BOND), 5-(5WIRE+BOND) AMPACT RATING											
FEEDER NO.	NO. OF RUNS	CONDUCTOR SIZE + BONDING CONDUCTOR SIZE (AWG OR KCMIL) PER RUN	MAXIMUM CIRCUIT CAPACITY PER 75°C COLUMN (PER 60°C COLUMN FOR MOTORS)				MAXIMUM CIRCUIT CAPACITY PER 75°C/90°C COLUMN				
			FEEDER AMPACITY FOR 3 WIRE + BONDING SYSTEMS		FEEDER AMPACITY FOR 4 WIRE + BONDING SYSTEMS		FEEDER AMPACITY FOR 5 WIRE + BONDING SYSTEMS		FEEDER AMPACITY FOR 5 WIRE + BONDING SYSTEMS		
			RW90	RW90	RW90	RW90	RW90	RW90	RW90	RW90	
M20	1	#12 AWG + #12 AWG	20	21 (2)	21 (2)	N/A	N/A	N/A	N/A	N/A	N/A
M30	1	#10 AWG + #10 AWG	30	21 (2)	27 (1)	N/A	N/A	N/A	N/A	N/A	N/A
M40	1	#8 AWG + #8 AWG	40	27 (1)	27 (1)	N/A	N/A	N/A	N/A	N/A	N/A
M55	1	#6 AWG + #6 AWG	55	27 (1)	35 (1/2)	N/A	N/A	N/A	N/A	N/A	N/A
M70	1	#4 AWG + #6 AWG	70	35 (1/2)	41 (1/2)	N/A	N/A	N/A	N/A	N/A	N/A
M85	1	#3 AWG + #6 AWG	85	35 (1/2)	41 (1/2)	N/A	N/A	N/A	N/A	N/A	N/A
M95	1	#2 AWG + #6 AWG	95	41 (1/2)	41 (1/2)	N/A	N/A	N/A	N/A	N/A	N/A
M110	1	#1 AWG + #4 AWG	110	53 (2)	53 (2)	N/A	N/A	N/A	N/A	N/A	N/A
C20	1	#12 AWG + #4 AWG	20	21 (2)	21 (2)	27 (1)	27 (1)	C20	20	21 (2)	27 (1)
C30	1	#10 AWG + #2 AWG	30	21 (2)	27 (1)	27 (1)	27 (1)	C30	30	27 (1)	27 (1)
C50	1	#8 AWG + #2 AWG	50	27 (1)	27 (1)	27 (1)	35 (1/2)	C44	44	27 (1)	35 (1/2)
C65	1	#6 AWG + #2 AWG	65	27 (1)	35 (1/2)	35 (1/2)	35 (1/2)	C60	60	35 (1/2)	41 (1/2)
C85	1	#4 AWG + #2 AWG	85	35 (1/2)	41 (1/2)	41 (1/2)	41 (1/2)	C76	76	41 (1/2)	53 (2)
C100	1	#3 AWG + #2 AWG	100	35 (1/2)	41 (1/2)	41 (1/2)	53 (2)	C92	92	53 (2)	53 (2)
C115	1	#2 AWG + #2 AWG	115	41 (1/2)	41 (1/2)	41 (1/2)	53 (2)	C104	104	53 (2)	53 (2)
C200	1	#3/0 AWG + #4 AWG	200	63 (2/2)	63 (2/2)	63 (2/2)	63 (2/2)	C180	180	78 (3)	78 (3)
A120	1	#1/0 AWG + #4 AWG	120	53 (2)	53 (2)	53 (2)	63 (2/2)	A108	108	63 (2/2)	63 (2/2)
A135	1	#2/0 AWG + #4 AWG	135	53 (2)	53 (2)	63 (2/2)	63 (2/2)	A120	120	63 (2/2)	63 (2/2)
A155	1	#1/0 AWG + #4 AWG	155	63 (2/2)	63 (2/2)	63 (2/2)	63 (2/2)	A140	140	78 (3)	78 (3)
A180	1	#3/0 AWG + #4 AWG	180	63 (2/2)	63 (2/2)	78 (3)	78 (3)	A164	164	78 (3)	78 (3)
A205	1	250 KCMIL + #2 AWG	205	63 (2/2)	78 (3)	78 (3)	78 (3)	A184	184	78 (3)	91 (3/2)
A230	1	300 KCMIL + #2 AWG	230	78 (3)	78 (3)	78 (3)	91 (3/2)	A208	208	91 (3/2)	91 (3/2)
A250	1	350 KCMIL + #2 AWG	250	78 (3)	78 (3)	91 (3/2)	91 (3/2)	A224	224	91 (3/2)	91 (3/2)
A270	1	400 KCMIL + #2 AWG	270	78 (3)	91 (3/2)	91 (3/2)	91 (3/2)	A244	244	103 (4)	103 (4)
A340	1	600 KCMIL + #1 AWG	340	91 (3/2)	103 (4)	103 (4)	116 (4/2)	A308	308	116 (4/2)	116 (4/2)
A385	1	750 KCMIL + #1 AWG	385	103 (4)	116 (4/2)	116 (4/2)	116 (4/2)	A348	348	129 (5)	129 (5)
A445	1	1000 KCMIL + #1 AWG	445	116 (4/2)	129 (5)	129 (5)	155 (6)	A400	400	155 (6)	155 (6)
A240	2	#1/0 AWG + #4 AWG	240	53 (2)	53 (2)	53 (2)	63 (2/2)	A216	216	63 (2/2)	63 (2/2)
A270	2	#2/0 AWG + #4 AWG	270	53 (2)	53 (2)	63 (2/2)	63 (2/2)	A240	240	63 (2/2)	63 (2/2)
A360	2	#4/0 AWG + #4 AWG	360	63 (2/2)	63 (2/2)	78 (3)	78 (3)	A328	328	78 (3)	78 (3)
A410	2	250 KCMIL + #2 AWG	410	63 (2/2)	78 (3)	78 (3)	78 (3)	A368	368	78 (3)	91 (3/2)
A460	2	300 KCMIL + #2 AWG	460	78 (3)	78 (3)	78 (3)	91 (3/2)	A416	416	91 (3/2)	91 (3/2)
A500	2	350 KCMIL + #2 AWG	500	78 (3)	78 (3)	91 (3/2)	91 (3/2)	A448	448	91 (3/2)	91 (3/2)
A620	2	500 KCMIL + #1 AWG	620	91 (3/2)	91 (3/2)	103 (4)	103 (4)	A560	560	103 (4)	116 (4/2)
A680	2	600 KCMIL + #1 AWG	680	91 (3/2)	103 (4)	103 (4)	116 (4/2)	A616	616	116 (4/2)	116 (4/2)
A770	2	750 KCMIL + #1 AWG	770	103 (4)	116 (4/2)	116 (4/2)	116 (4/2)	A696	696	129 (5)	129 (5)
A890	2	1000 KCMIL + #1 AWG	890	116 (4/2)	129 (5)	129 (5)	155 (6)	A800	800	155 (6)	155 (6)
A405	3	#1/0 AWG + #4 AWG	405	53 (2)	53 (2)	63 (2/2)	63 (2/2)	A360	360	63 (2/2)	63 (2/2)
A465	3	#3/0 AWG + #4 AWG	465	63 (2/2)	63 (2/2)	63 (2/2)	63 (2/2)	A420	420	78 (3)	78 (3)
A615	3	250 KCMIL + #2 AWG	615	63 (2/2)	78 (3)	78 (3)	78 (3)	A552	552	78 (3)	91 (3/2)
A690	3	300 KCMIL + #2 AWG	690	78 (3)	78 (3)	78 (3)	91 (3/2)	A624	624	91 (3/2)	91 (3/2)
A750	3	350 KCMIL + #2 AWG	750	78 (3)	78 (3)	91 (3/2)	91 (3/2)	A672	672	91 (3/2)	91 (3/2)
A810	3	400 KCMIL + #2 AWG	810	78 (3)	91 (3/2)	91 (3/2)	91 (3/2)	A732	732	103 (4)	103 (4)
A930	3	500 KCMIL + #1 AWG	930	91 (3/2)	103 (4)	103 (4)	103 (4)	A840	840	103 (4)	116 (4/2)
A1020	3	600 KCMIL + #1 AWG	1020	91 (3/2)	103 (4)	103 (4)	116 (4/2)	A924	924	116 (4/2)	116 (4/2)
A1155	3	750 KCMIL + #1 AWG	1155	103 (4)	116 (4/2)	116 (4/2)	116 (4/2)	A1044	1044	129 (5)	129 (5)
A1335	3	1000 KCMIL + #1 AWG	1335	116 (4/2)	129 (5)	129 (5)	155 (6)	A1200	1200	155 (6)	155 (6)
A480	4	#1/0 AWG + #4 AWG	480	53 (2)	53 (2)	53 (2)	63 (2/2)	A432	432	63 (2/2)	63 (2/2)
A620	4	#3/0 AWG + #4 AWG	620	63 (2/2)	63 (2/2)	63 (2/2)	63 (2/2)	A560	560	78 (3)	78 (3)
A720	4	#4/0 AWG + #4 AWG	720	63 (2/2)	63 (2/2)	78 (3)	78 (3)	A656	656	78 (3)	78 (3)
A820	4	250 KCMIL + #2 AWG	820	63 (2/2)	78 (3)	78 (3)	78 (3)	A736	736	78 (3)	91 (3/2)
A920	4	300 KCMIL + #2 AWG	920	78 (3)	78 (3)	78 (3)	91 (3/2)	A832	832	91 (3/2)	91 (3/2)
A1000	4	350 KCMIL + #2 AWG	1000	78 (3)	78 (3)	91 (3/2)	91 (3/2)	A896	896	91 (3/2)	91 (3/2)
A1080	4	400 KCMIL + #2 AWG	1080	78 (3)	91 (3/2)	91 (3/2)	91 (3/2)	A976	976	103 (4)	103 (4)
A1240	4	500 KCMIL + #1 AWG	1240	91 (3/2)	103 (4)	103 (4)	103 (4)	A1120	1120	103 (4)	116 (4/2)
A1360	4	600 KCMIL + #1 AWG	1360	91 (3/2)	103 (4)	103 (4)	116 (4/2)	A1232	1232	116 (4/2)	116 (4/2)
A1540	4	750 KCMIL + #1 AWG	1540	103 (4)	116 (4/2)	116 (4/2)	116 (4/2)	A1392	1392	129 (5)	129 (5)
A1780	4	1000 KCMIL + #1 AWG	1780	116 (4/2)	129 (5)	129 (5)	155 (6)	A1600	1600	155 (6)	155 (6)

SCHEDULE REVISION DATE: 2019.05.01

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macleanmill jaunkalns miller architects
425 adelaide street west level 6
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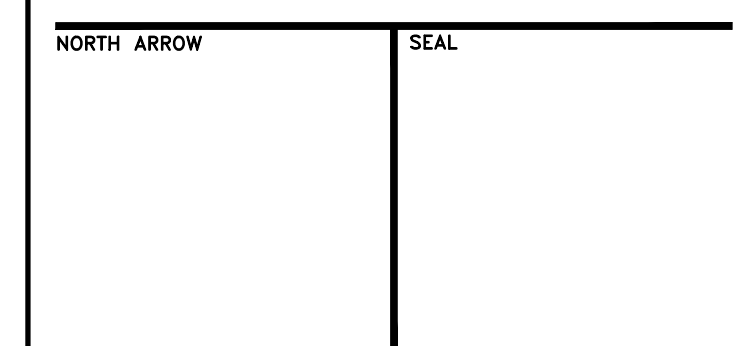
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132 BURLINGHAM STREET
T: 705.656.4531
e: sayers@psley.ca



PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY**

DRAWING TITLE
SINGLE LINE DIAGRAM

SCALE
NTS

DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
DRAWING NUMBER

E200

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
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2	ISSUED FOR TENDER	2021.08.27	
3	ISSUED FOR BUILDING PERMIT	2021.09.09	
4	ISSUED FOR ADD-E01	2021.09.15	
5	ISSUED FOR ADD-E03	2021.09.27	
6	ISSUED FOR REVISED TENDER/BUILDING PERMIT	2022.01.31	
7	ISSUED FOR CONSTRUCTION	2022.07.18	
8			

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maclean jaunkains miller architects
425 adelade street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

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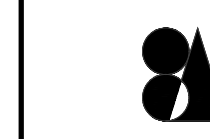
CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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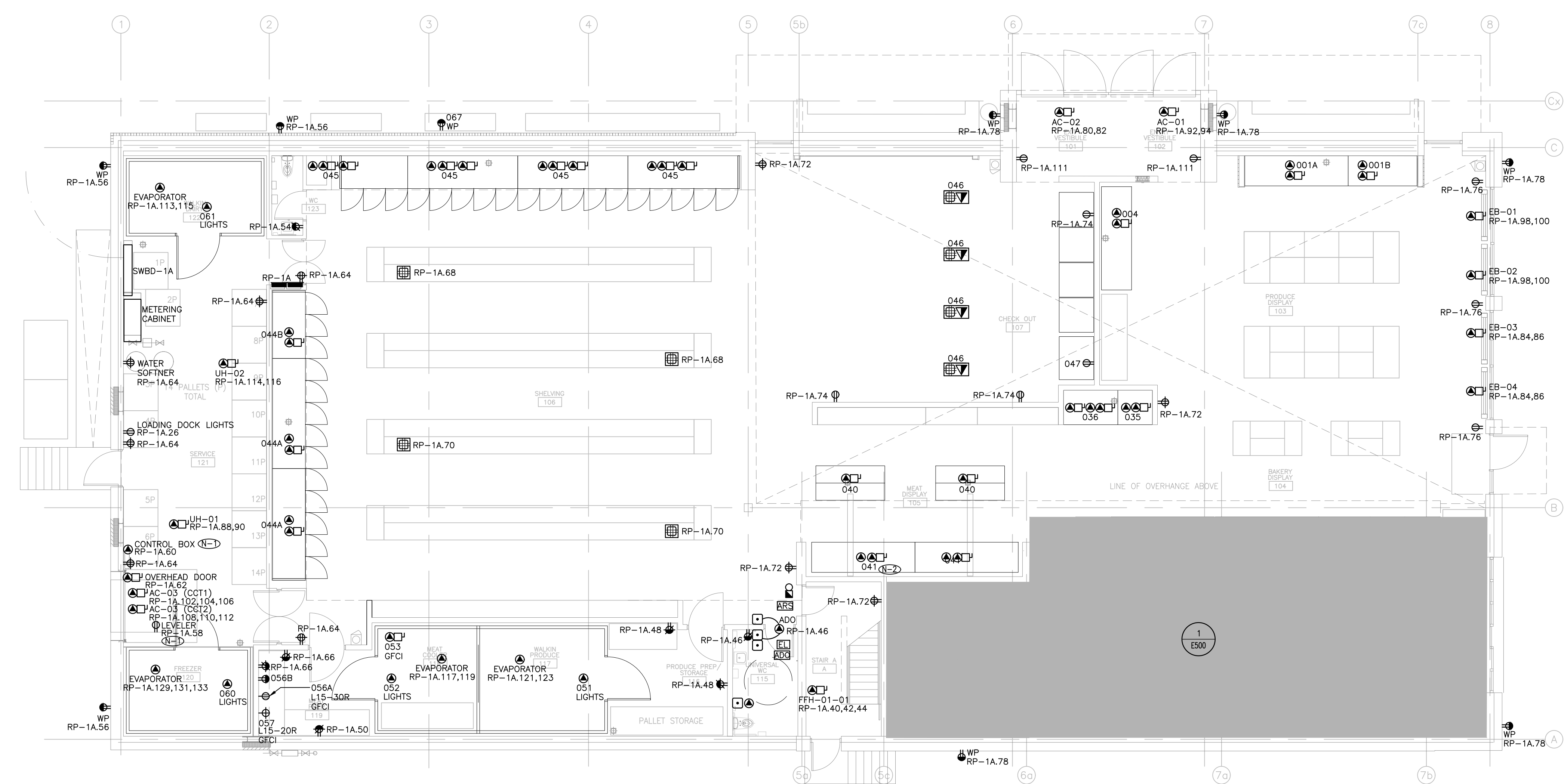
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134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
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1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416-487-8151



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1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 8104 smthanderson.com



EQUIPMENT SCHEDULE												
LEVEL 1												
ITEM NO.	QTY	LOCATION	DESCRIPTION	PANEL NUMBER	CIRCUIT NUMBER	CONNECTION TYPE	VOLTAGE (V)	CYCLE (HZ)	PHASE	AMPS (A)	HP	CONNECTED LOAD (W)
001A	1	103 - PRODUCE DISPLAY	12' PRODUCE COOLER	RP-1A 1	DC	120	60	1	0.57			60
			FANS	RP-1A 14	DC	120	60	1	0.72			86.4
			LIGHTS	RP-1A 3	DC	120	60	1	0.38			45
001B	1	103 - PRODUCE DISPLAY	8' PRODUCE COOLER	RP-1A 14	DC	120	60	1	0.48			57.6
			FANS	RP-1A 5	DC	120	60	1	0.57			45
			LIGHTS	RP-1A 14	DC	120	60	1	2.25			15
035	1	105 - MEAT DISPLAY	2' MEAT COOLER	RP-1A 7	DC	120	60	1	0.19			15
			FANS	RP-1A 14	DC	120	60	1	0.41			43.2
			LIGHTS	RP-1A 9	DC	120	60	1	4.98			1400
036	1	105 - MEAT DISPLAY	2 DOOR BAKERY FREEZER	RP-1A 11, 13	DC	208	60	1	6.72			30
			FANS & HEAT	RP-1A 17, 19, 21, 22	DC	208	60	1	8.08			30
040	2	105 - MEAT DISPLAY	MEAT BUNKER	RP-1A 25	DC	120	60	1	1.52			
			FANS	RP-1A 14	DC	120	60	1	1.75			
041	2	105 - MEAT DISPLAY	12' MEAT SHELF	RP-1A 29	DC	120	60	1	2.87			
			FANS & HEAT	RP-1A 14	DC	120	60	1	0.84			100.5
044A	2	106 - SHELVING	5 DOOR DAIRY SHELVING	RP-1A 33	DC	120	60	1	3.12			
			FANS & HEAT	RP-1A 16	DC	120	60	1	0.53			63.8
044B	1	106 - SHELVING	3 DOOR DAIRY SHELVING	RP-1A 35	DC	120	60	1	15.87			
			FANS & HEAT	RP-1A 55, 57, 59	DC	120	60	1	0.84			100.5
045	4	106 - SHELVING	5 DOOR FREEZER SHELVING	RP-1A 36	DC	120	60	1	0.84			100.5
			FANS & HEAT	RP-1A 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59	DC	208	60	3	16.82			3500
			ELECTRIC DEFROST HEATER	RP-1A 67, 69, 71, 73	DC	120	60	1	2.5			
046	4	107 - CHECKOUT	CHECKOUT	RP-1A 75	FLOORBOX	120	60	1	2.5			
047	1	107 - CHECKOUT	ICE MACHINE	RP-1A 58	NEMA 5-15R	120	60	1				15
051	1	117 - WALKIN PRODUCE	COOLER	RP-1A 77	DC	120	60	1				15
			LIGHTS	RP-1A 20	DC	120	60	1				15
052	1	118 - MEAT COOLER	COOLER	RP-1A 79	DC	120	60	1				15
053	1	118 - MEAT COOLER	MEAT GRINDER	RP-1A 81, 83, 85	DC	208	60	3	13.29		5	2660
056A	1	119 - MEAT PREP	MEAT GRINDER	RP-1A 87, 89, 91	L15-30R	208	60	3			7.5 (GRIND 1 MAX)	
056B	1	119 - MEAT PREP	MEAT GRINDER - TENDERIZER ADD-ON	RP-1A 93	NEMA 5-15R	120	60	1	4		1/2	460
057	1	119 - MEAT PREP	MEAT BONE SAW, ELECTRIC	RP-1A 95, 97, 99	L15-20R	208	60	3	7.25		3	1595
060	1	120 - FREEZER	FREEZER	RP-1A 22	DC	120	60	1				15
			LIGHTS	RP-1A 101, 103, 105	DC	120	60	1				15
061	1	121 - WALKIN DAIRY	COOLER	RP-1A 24	DC	120	60	1				15
			LIGHTS	RP-1A 107	DC	120	60	1				15
067	1	000 - EXTERIOR	ICE MACHINE	RP-1A 109	NEMA 5-15R	120	60	1				15

GENERAL NOTES:
 (1) RECEPTACLE FOR AIR ACTIVATED LEVELER TO BE FLUSH MOUNTED AND WIRED THROUGH THE PUSH BUTTON STATION PER LEVELER'S USER MANUAL FROM RECEPTACLE TO CONTROL BOX. CONDUITS AND RECEPTACLE TO BE SET BEFORE POURING CONCRETE.
 (2) REFER TO EQUIPMENT SCHEDULE FOR ITEM NUMBER AND CORRESPONDING CIRCUIT NUMBER(S). TYPICAL.

NORTH ARROW SEAL

PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLINGHAM STREET, APSLEY

DRAWING TITLE
 GROUND LEVEL - POWER
 AND SYSTEMS

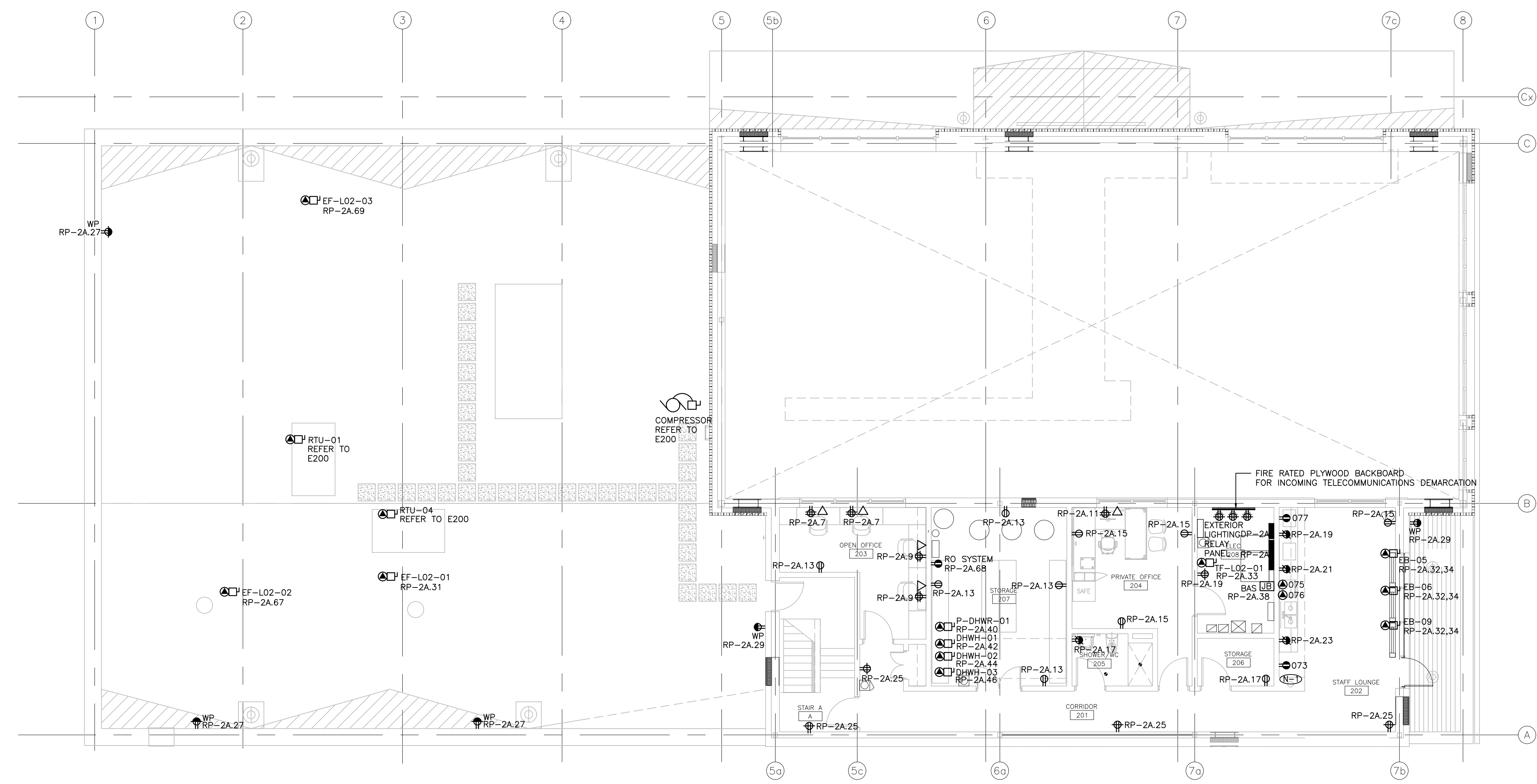
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DATE
 JUNE 16, 2021

PROJECT NUMBER
 21376.000.e001

DRAWING NUMBER
 E300

DRAWING NOTES:
 REFER TO EQUIPMENT SCHEDULE FOR ITEM NUMBER AND CORRESPONDING CIRCUIT NUMBER(S). TYPICAL.



EQUIPMENT SCHEDULE														
LEVEL 2														
ITEM NO.	QTY	LOCATION	DESCRIPTION	PANEL	CIRCUIT NUMBER	CONNECTION TYPE	VOLTAGE (V)	CYCLE (HZ)	PHASE	AMPS (A)	HP	CONNECTED LOAD (W)	ANOP (A)	NCA (A)
073	1	202 - STAFF LOUNGE	RESIDENTIAL FRIDGE	RP-2A	1	NEMA 5-15R	120	60	1				15 OR 20	
075	1	203 - STAFF LOUNGE	STOVE - STANDARD ELECTRIC RANGE/OVEN	RP-2A	56&1,63	DC	208	60	3				50	
076	1	203 - STAFF LOUNGE	STOVE - WOOD	RP-2A	65	DC	120	60	1				15	
077	1	204 - STAFF LOUNGE	MICROWAVE	RP-2A	3	NEMA 5-15R	120	60	1	13		1300		

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES			
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5	ISSUED FOR ADD-E02	2021.09.23	
6	ISSUED FOR ADD-E03	2021.09.27	
7	ISSUED FOR REVISED TENDER/BUILDING PERMIT	2022.01.31	
8	ISSUED FOR CONSTRUCTION	2022.07.18	

MJMA
 maclean jaunkains miller architects
 425 adelaide street west level 6
 toronto ontario m5v 3c1
 416 593 6796
 www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416-593-5300 FAX 416-593-4840

SMITH + ANDERSON
 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416-487-8151

Smith + Andersen
 1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
 416 487 8151 f 416 487 9104 smithandanderson.com

SAYERS FOOD LIMITED
 132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

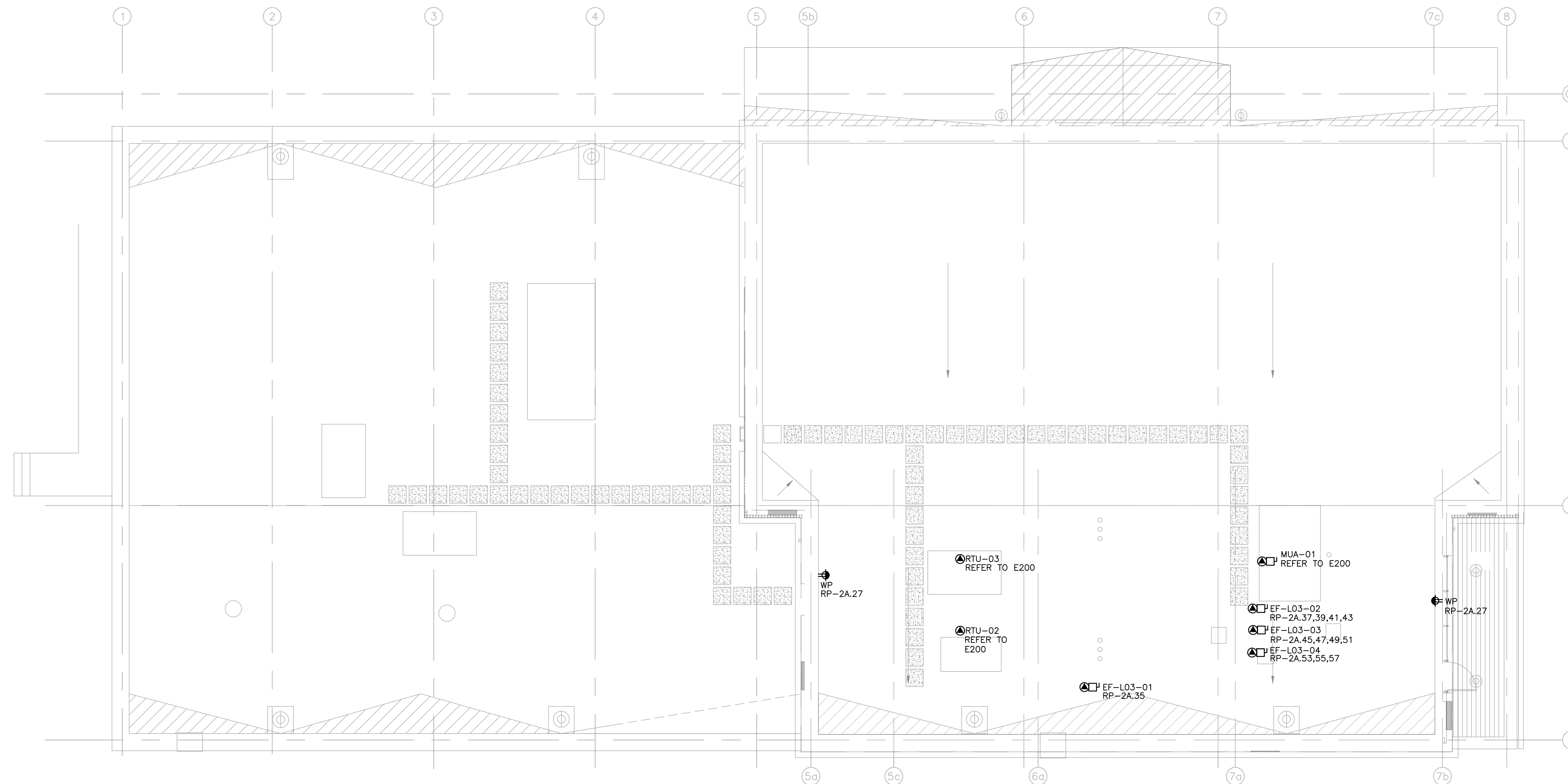
DRAWING TITLE
 SECOND LEVEL - POWER
 AND SYSTEMS

SCALE
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DATE
 JUNE 16, 2021

PROJECT NUMBER
 21376.000.e001

DRAWING NUMBER
 E301



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REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.17	
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3	ISSUED FOR BUILDING PERMIT	2021.09.09	
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6	ISSUED FOR CONSTRUCTION	2022.07.18	
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8			

MJMA

maclean jaunkains miller architects
 425 adelaide street west level 6
 toronto ontario m5v 3c1
 416 593 6796
 www.mjmaarchitects.com

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CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416.593.5300 FAX 416.593.4840

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MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
 TEL 416.487.8151



Smith + Anderson

1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
 416 487 8151 f 416 487 8104 smithanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
 t: 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE

ROOF - POWER AND
 SYSTEMS

SCALE

1:100

DATE

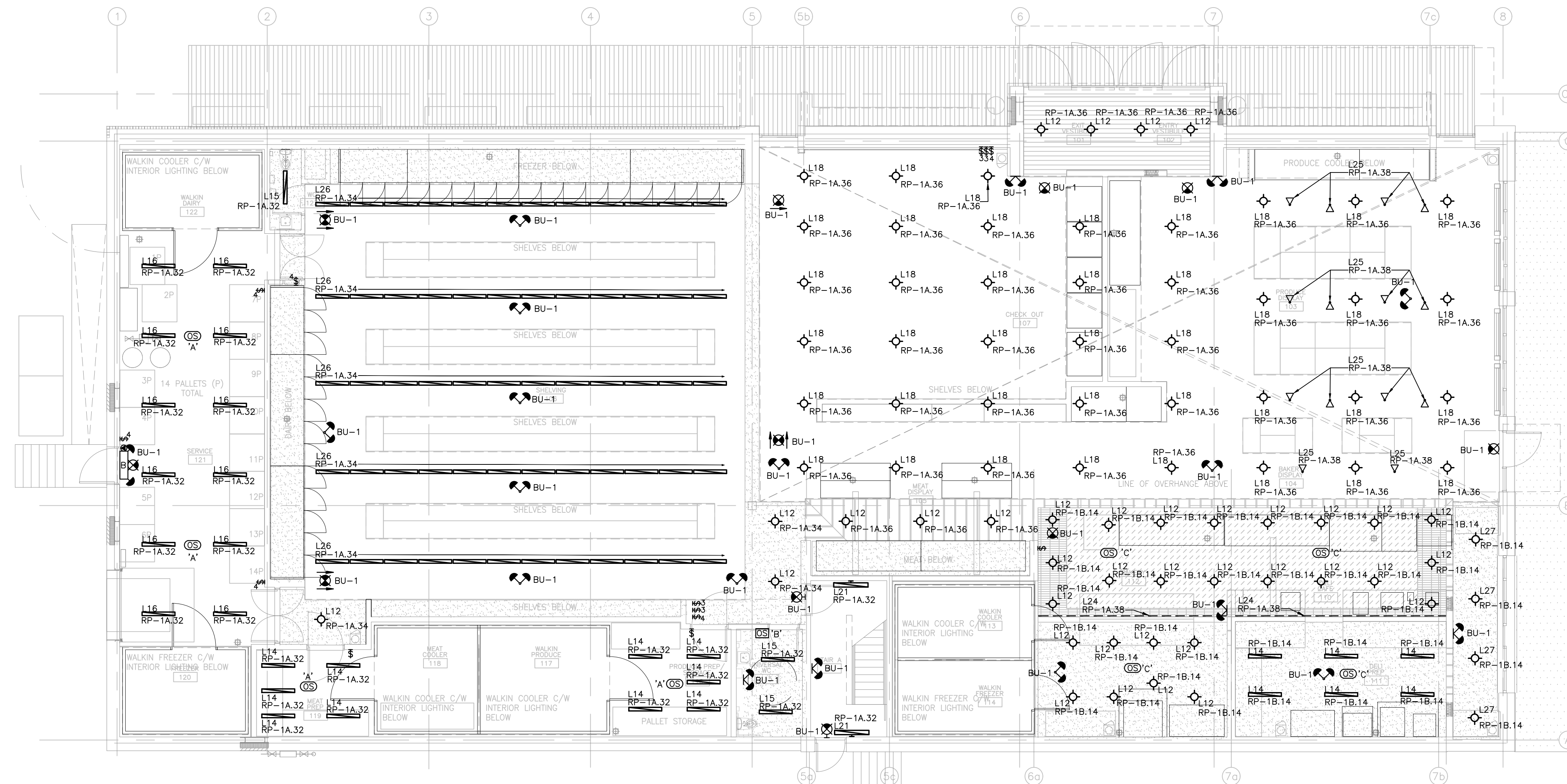
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PROJECT NUMBER

21376.000.e001

DRAWING NUMBER

E302



Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work. Do not scale this drawing.

REVISIONS AND ISSUES

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5	ISSUED FOR REVISED TENDER/BUILDING PERMIT	2022.01.31	
6	ISSUED FOR CONSTRUCTION	2022.07.18	
7			
8			

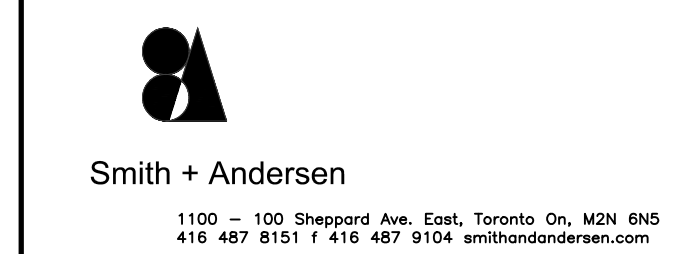
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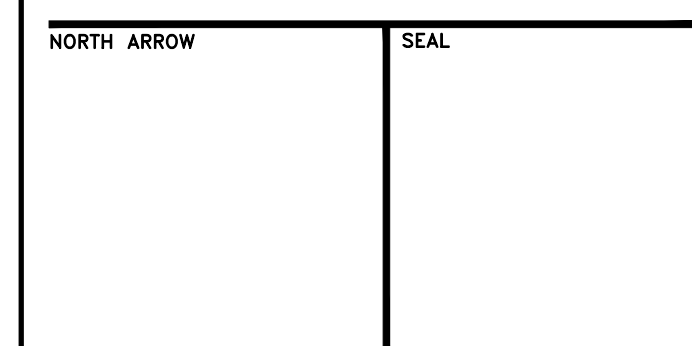
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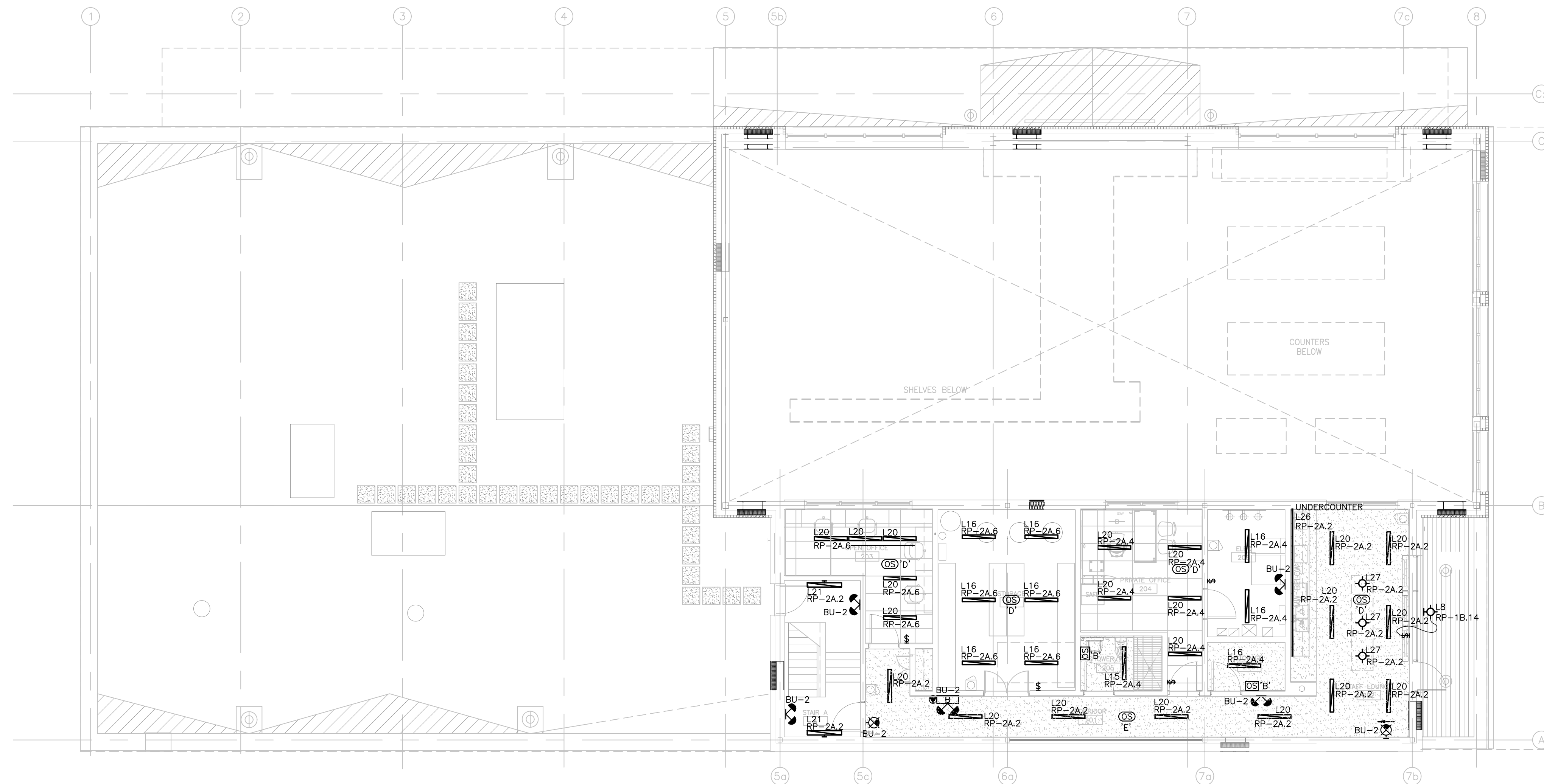
PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
GROUND LEVEL - LIGHTING

SCALE
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 DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
 DRAWING NUMBER

E400



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REVISIONS AND ISSUES

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MJMA

maclean jaunkains miller architects

425 adelaide street west level 6
toronto ontario m5v 3c1
416 593 6796
www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD

CIVIL ENGINEERS
18 ROBB BOULEVARD - UNIT 8
ORANGEVILLE, ONTARIO
TEL 519 941 0330 FAX 519 941 1830

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STRUCTURAL ENGINEERS
134 PETER STREET, SUITE 1301
TORONTO, ONTARIO, M5V 2H2
TEL 416.593.5300 FAX 416.593.4840

SMITH + ANDERSON

MECHANICAL AND ELECTRICAL ENGINEERS
1100 - 100 SHEPPARD AVENUE EAST
TORONTO, ONTARIO, M2N 6N5
TEL 416.487.8151



Smith + Anderson

1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 8104 smthandanderson.com

SAYERS FOOD LIMITED

132 BURLEIGH STREET
t: 705.656.4531
e: sayers@apsley.ca

NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

SECOND LEVEL - LIGHTING

SCALE

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DATE

JUNE 16, 2021

PROJECT NUMBER

21376.000.e001

DRAWING NUMBER

E401

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REVISIONS AND ISSUES

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MJMA
 maclean jaunkains miller architects
 425 aelaide street west level 6
 toronto ontario m5v 3c1
 416 593 6796
 www.mjmaarchitects.com

TRITON ENGINEERING SERVICES LTD
 CIVIL ENGINEERS
 18 ROBB BOULEVARD - UNIT 8
 ORANGEVILLE, ONTARIO
 TEL 519 941 0330 FAX 519 941 1830

BLACKWELL
 STRUCTURAL ENGINEERS
 134 PETER STREET, SUITE 1301
 TORONTO, ONTARIO, M5V 2H2
 TEL 416-593-5300 FAX 416-593-4840

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 MECHANICAL AND ELECTRICAL ENGINEERS
 1100 - 100 SHEPPARD AVENUE EAST
 TORONTO, ONTARIO, M2N 6N5
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 132 BURLEIGH STREET
 T. 705.656.4531
 e: sayers@apsley.ca

NORTH ARROW SEAL

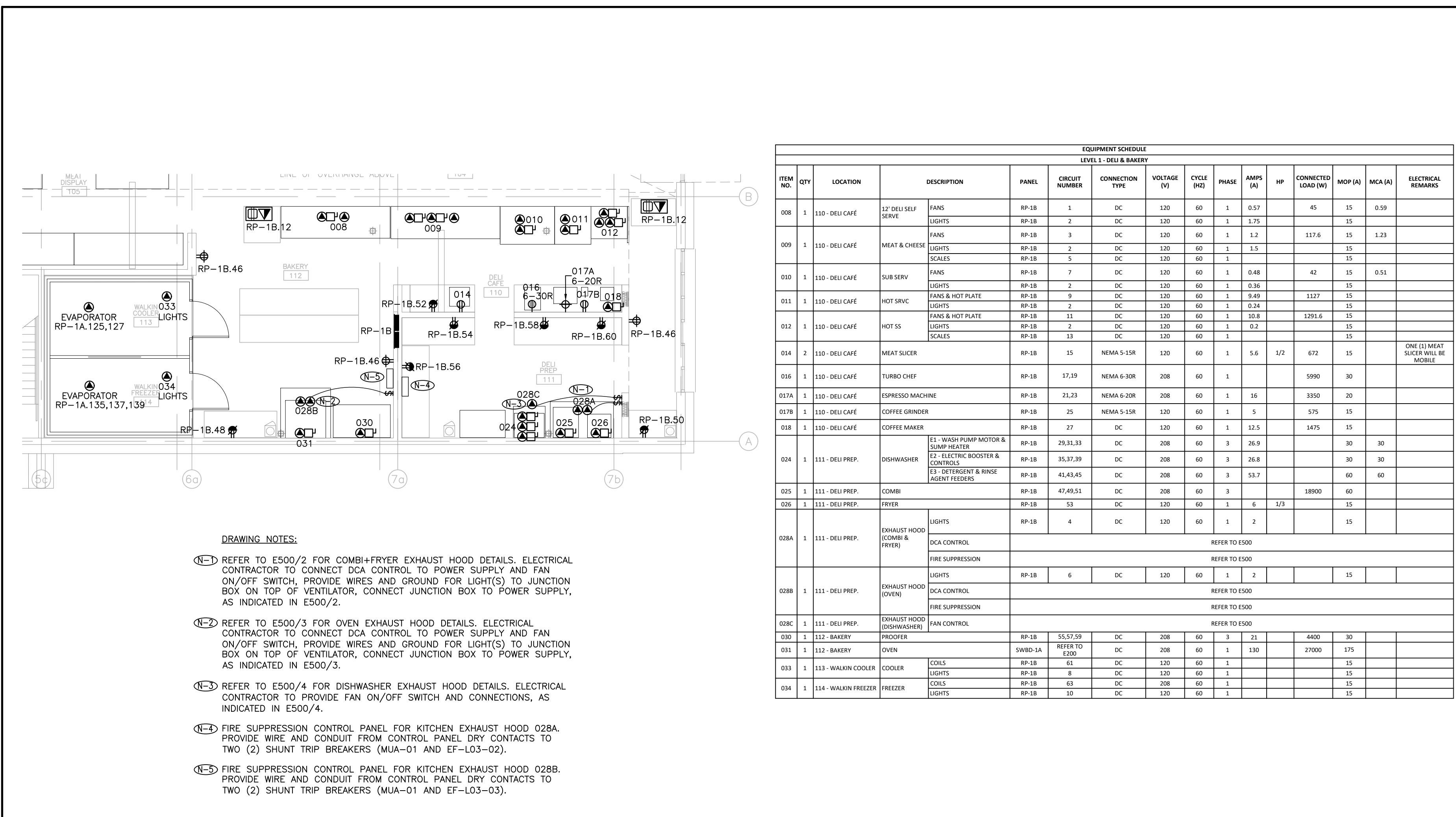
PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
ENLARGED PLANS

SCALE
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 DATE
JUNE 16, 2021

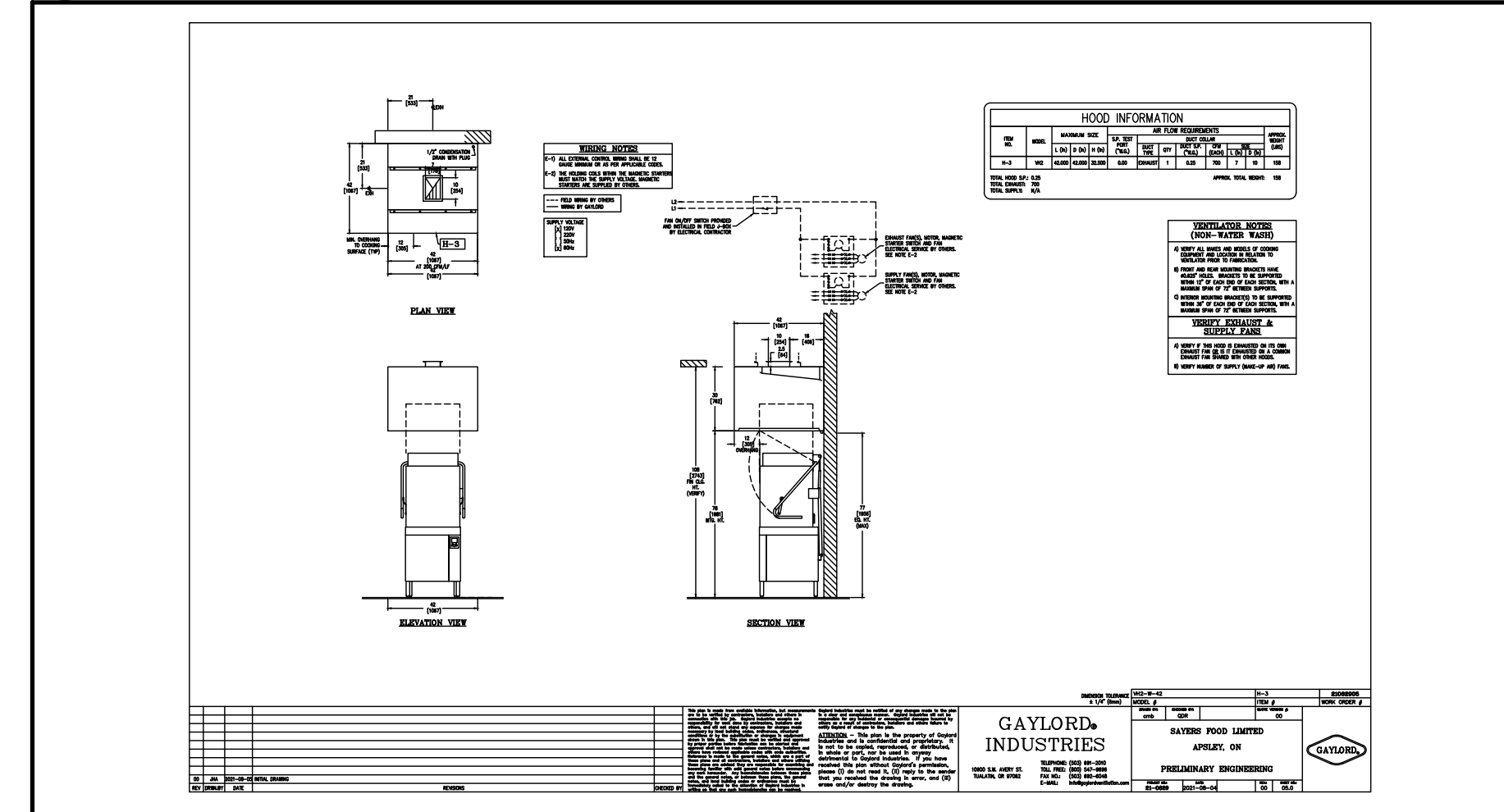
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E500

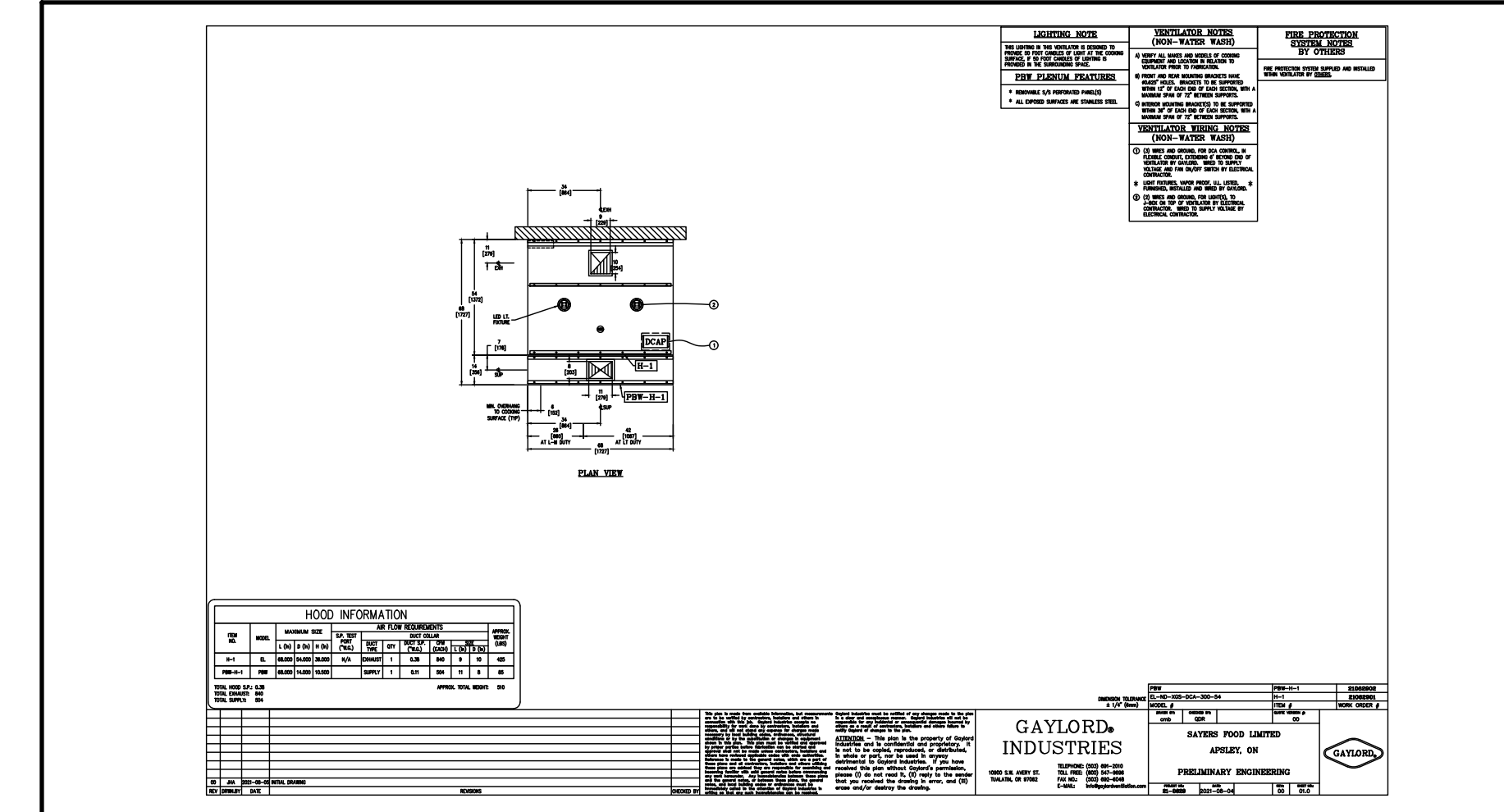


- DRAWING NOTES:**
- 1. REFER TO E500/2 FOR COMBI+FRYER EXHAUST HOOD DETAILS. ELECTRICAL CONTRACTOR TO CONNECT DCA CONTROL TO POWER SUPPLY AND FAN ON/OFF SWITCH, PROVIDE WIRES AND GROUND FOR LIGHT(S) TO JUNCTION BOX ON TOP OF VENTILATOR, CONNECT JUNCTION BOX TO POWER SUPPLY, AS INDICATED IN E500/2.
 - 2. REFER TO E500/3 FOR OVEN EXHAUST HOOD DETAILS. ELECTRICAL CONTRACTOR TO CONNECT DCA CONTROL TO POWER SUPPLY AND FAN ON/OFF SWITCH, PROVIDE WIRES AND GROUND FOR LIGHT(S) TO JUNCTION BOX ON TOP OF VENTILATOR, CONNECT JUNCTION BOX TO POWER SUPPLY, AS INDICATED IN E500/3.
 - 3. REFER TO E500/4 FOR DISHWASHER EXHAUST HOOD DETAILS. ELECTRICAL CONTRACTOR TO PROVIDE FAN ON/OFF SWITCH AND CONNECTIONS, AS INDICATED IN E500/4.
 - 4. FIRE SUPPRESSION CONTROL PANEL FOR KITCHEN EXHAUST HOOD 028A. PROVIDE WIRE AND CONDUIT FROM CONTROL PANEL DRY CONTACTS TO TWO (2) SHUNT TRIP BREAKERS (MUA-01 AND EF-L03-02).
 - 5. FIRE SUPPRESSION CONTROL PANEL FOR KITCHEN EXHAUST HOOD 028B. PROVIDE WIRE AND CONDUIT FROM CONTROL PANEL DRY CONTACTS TO TWO (2) SHUNT TRIP BREAKERS (MUA-01 AND EF-L03-03).

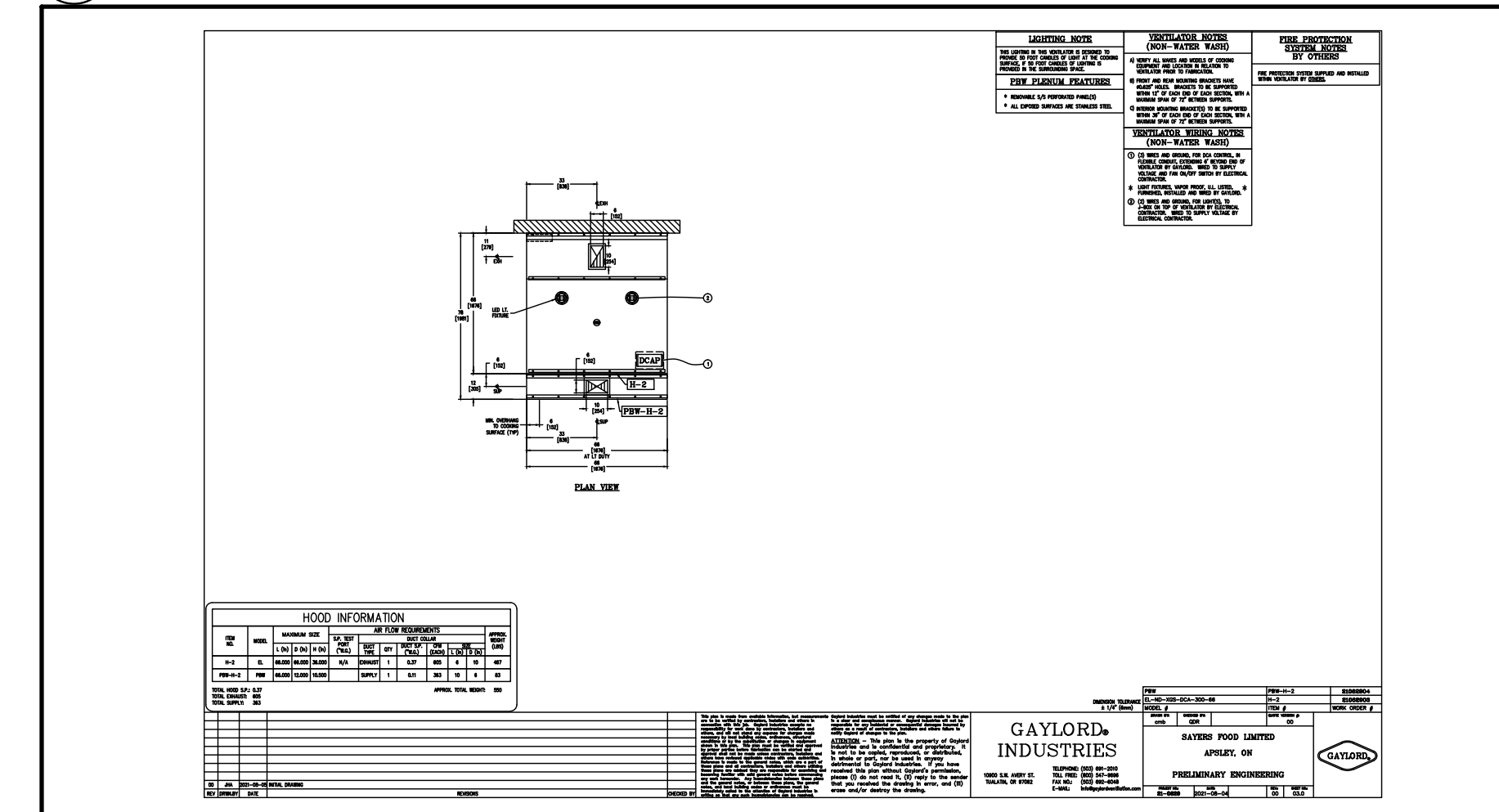
1 BAKERY & DELI CAFE/PREP
 E500



4 DISHWASHER EXHAUST HOOD
 E500



2 COMBI+FRYER EXHAUST HOOD
 E500



3 OVEN EXHAUST HOOD
 E500