

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 TENDER - AUGUST 30, 2021

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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 SPA	210618	AB
2	REVISED SPA	210709	AB
3	ISSUED FOR COSTING	210721	AB
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NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

COVER SHEET

SCALE

NTS

DATE

AUGUST 2021

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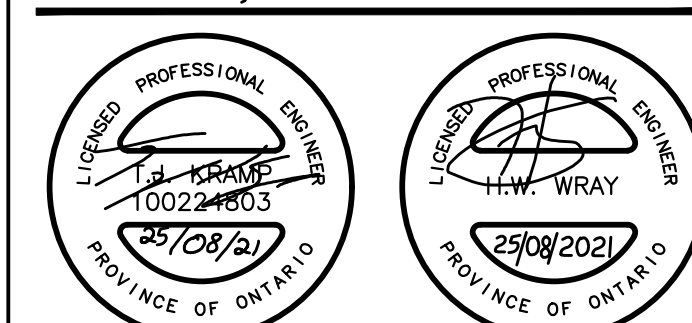
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NORTH ARROW	SEAL
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PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

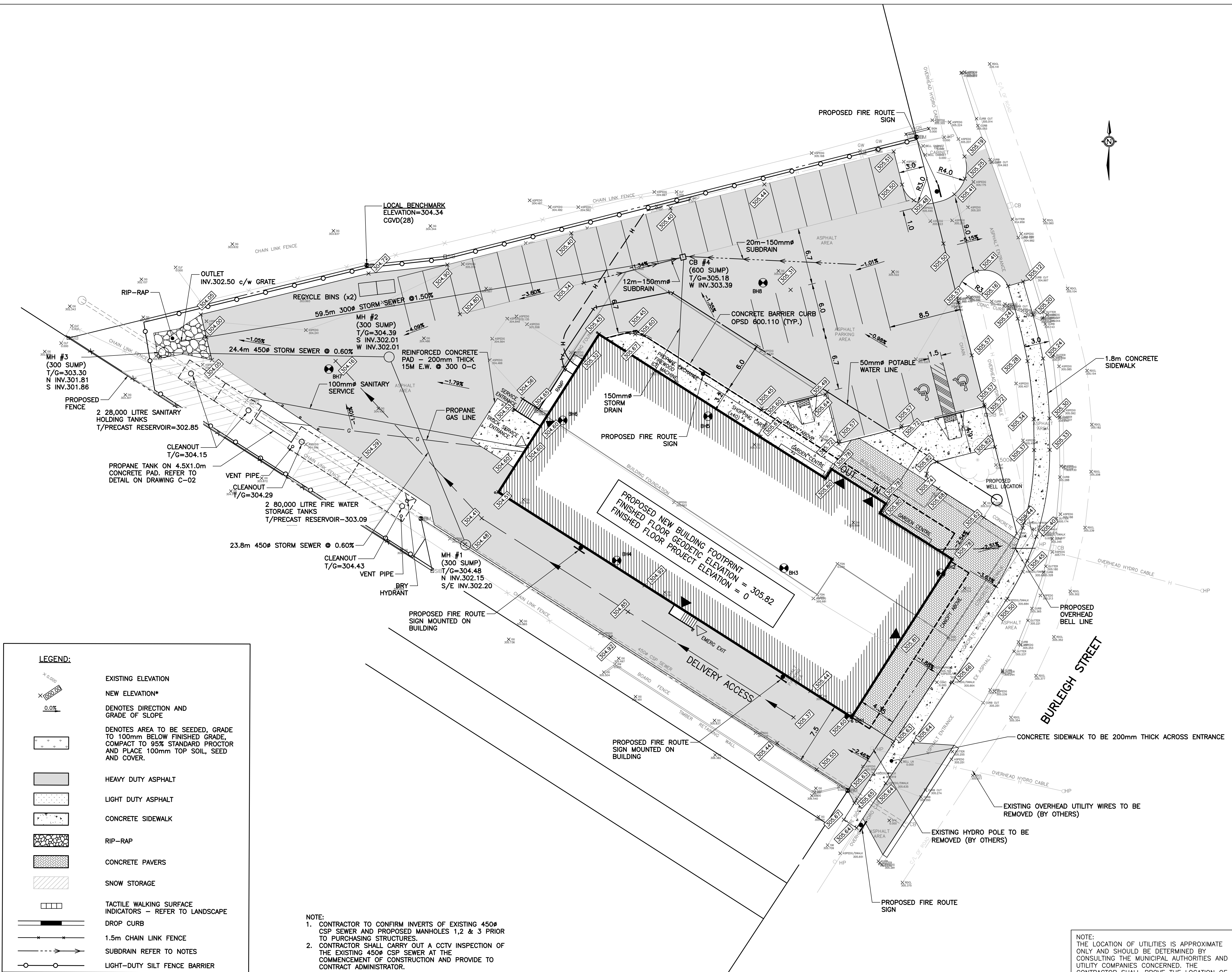
DRAWING TITLE
**CONSTRUCTION GRADING &
 SERVICING PLAN**

SCALE
1:200
 DATE
JUNE 16, 2021



PROJECT NUMBER
2102
 DRAWING NUMBER

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.



C-01

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH THE LATEST ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS).
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION.
6. 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.
7. 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.
8. 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.
9. 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:

10. EXISTING ELEVATIONS HAVE BEEN PROVIDED.
11. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
12. 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.
13. 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.

14. 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:

1. SEWERS AND STRUCTURES TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 410 AND 407.
2. TRENCHING, BACKFILLING AND COMPACTION TO BE IN ACCORDANCE WITH OPSS.MUNI 401 AND 402.
3. SANITARY AND STORM SEWER PIPE MATERIAL AND BEDDING TO BE AS SHOWN IN THE PIPE CLASS AND BEDDING CHART.
4. ALL BEDDING AND COVER MATERIAL TO BE GRANULAR 'A' COMPACTION TO 95% SPMD.
5. SUBDRAINS TO BE PLACED IN ACCORDANCE WITH OPSS.MUNI 405 AND AT A MINIMUM GRADE OF 0.50%.
6. CATCHBASINS TO BE OPSS 705.010. (SUMPS FOR ABOVE TO BE AS SHOWN ON SITE SERVICING PLAN).
7. 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.
8. CATCHBASIN AND CATCHBASIN MAINTENANCE HOLES TO HAVE FRAME AND GRATES IN ACCORDANCE WITH OPSS 400.020.
9. MAINTENANCE HOLE TO HAVE FRAME AND COVER IN ACCORDANCE WITH OPSS 401.010, TYPE A.
10. CATCHBASIN AND MANHOLE ADJUSTMENTS TO BE IN ACCORDANCE WITH OPSS 408.
11. ALL INSTALLED SANITARY AND STORM SEWERS TO BE INSPECTED BY CCTV EQUIPMENT IN ACCORDANCE WITH OPSS.MUNI 409.
12. 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.
13. 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.
14. RESTORATION BEYOND LIMITS OF SITE GRADING TO BE IN ACCORDANCE WITH OPSS.MUNI 492.
15. SEWER BACKFILL TO BE SELECT NATIVE MATERIAL.
16. THE CONTRACTOR SHALL CLEAN OUT ALL NEW CATCH BASINS AND MANHOLES FOLLOWING PLACEMENT AND FLUSH ALL STORM SEWER PIPES BETWEEN THESE STRUCTURES.
17. SANITARY HOLDING TANKS SHALL BE INSTALLED ON A GRANULAR 'A' BASE WITH A MINIMUM THICKNESS OF 150mm
18. INSTALLATION OF THE SANITARY HOLDING TANKS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, INCLUDING APPLYING A MASTIC BAND TO ALL JOINTS.

WATER SERVICE NOTES:

1. WATER SERVICE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 441.
2. WATER SERVICE TO BE LAID AT 2.0m MINIMUM COVER BELOW FINISHED GRADE.
3. WATER SERVICE PIPE MATERIAL TO BE AS SHOWN IN THE PIPE CLASS AND BEDDING CHART.
4. WATER SERVICE MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.50m FROM SEWERS WHEN CROSSING OR IN JOINT TRENCH.
5. 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.
6. WATER SERVICE TO BE EQUIPPED WITH WHITE 12 AWG SOLID PLASTIC COVERED TRACER WIRE, TW4 75°C 600V.
7. WATER SERVICE BACKFILL TO BE SELECT NATIVE MATERIAL.
8. DRY HYDRANT SHALL BE INSTALLED WITH A 150mm NIOSH FEMALE THREADED ADAPTER.
9. FIRE WATER HOLDING TANKS SHALL BE INSTALLED ON A GRANULAR 'A' BASE WITH A MINIMUM THICKNESS OF 150mm
10. INSTALLATION OF THE FIRE WATER HOLDING TANKS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, INCLUDING APPLYING A MASTIC BAND TO ALL JOINTS.
11. 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.

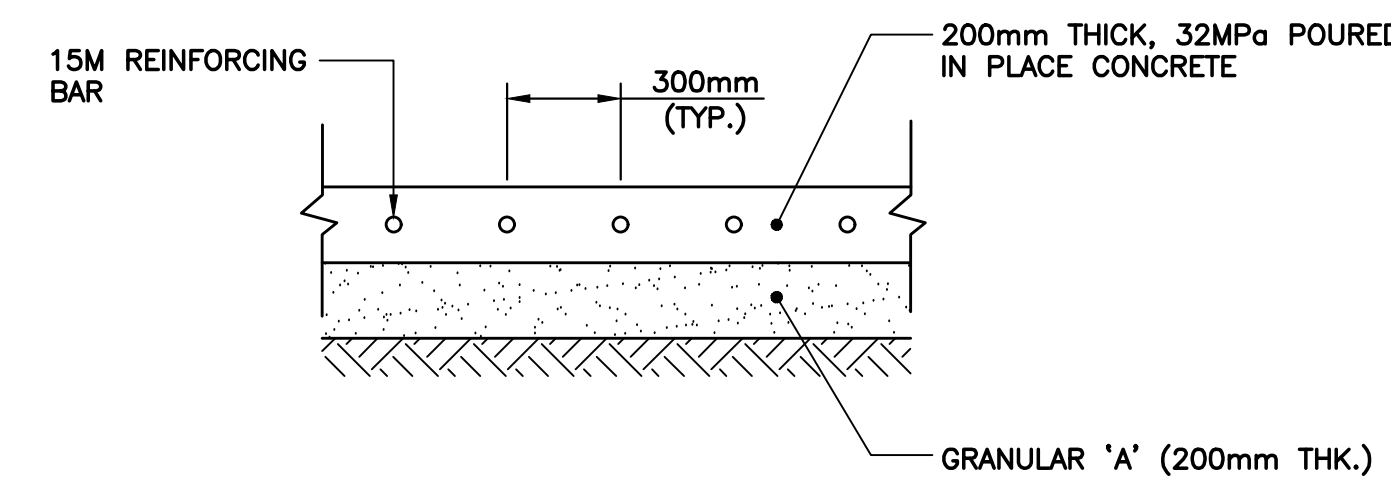
GRADING NOTES:

1. CLEARING AND GRUBBING TO BE IN ACCORDANCE WITH OPSS.MUNI 201.
2. GRADING TO BE IN ACCORDANCE WITH OPSS.MUNI 206.
3. REMOVALS TO BE CARRIED OUT IN ACCORDANCE WITH OPSS.MUNI 510.
4. EXCESS MATERIALS TO BE MANAGED IN ACCORDANCE WITH OPSS.MUNI 180.
5. SUBGRADE TO BE COMPACTED TO 95% SPMD. IN ACCORDANCE WITH OPSS.MUNI 501.
6. 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.
7. HOT MIX ASPHALT TO BE IN ACCORDANCE WITH OPSS.MUNI 310 AND 1150, COMPACTED TO 92% MAXIMUM RELATIVE DENSITY.
8. ASPHALT BINDER TO BE PGAC 58-34 IN ACCORDANCE WITH OPSS.MUNI 1003.
9. CONCRETE SIDEWALK TO BE IN ACCORDANCE WITH OPSS.MUNI. 351.
10. CONCRETE BARRIER CURB TO BE 32MPa IN ACCORDANCE WITH OPSS.MUNI 353.
11. RIP-RAP TO BE IN ACCORDANCE WITH OPSS.MUNI 511.
12. PAVEMENT MARKING TO BE WATER-BORNE TRAFFIC PAINT IN ACCORDANCE WITH OPSS 710 AND 1716. ALL PAINT LINES SHALL RECEIVE A DOUBLE APPLICATION.
13. 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:

1. SILT FENCE TO BE ERECTED ALONG THE DOWNSLOPE LIMIT OF CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
2. CONSTRUCT AND MAINTAIN SEDIMENT TRAPS UNTIL SITE HAS BEEN STABILIZED.
3. CONSTRUCT TEMPORARY INTERCEPTOR SWALES AND GRADE AS REQUIRED TO CONVEY SURFACE RUNOFF TO SEDIMENT TRAPS.
4. 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.
5. 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.
6. 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.
7. FOLLOWING COMPLETION OF PARKING AREAS AND ENTRANCE ROADS, DESIGNATED LANDSCAPE AREAS ARE TO BE FINE GRADED, TOPSOILED, AND SEEDED.
8. 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	HOT MIX ASPHALT		GRANULAR (FULL WIDTH)	
	SURFACE	BINDER	GRANULAR BASE	GRANULAR SUBBASE
HEAVY DUTY ACCESS ROUTES	50mm HL 3	50mm HL 8	150mm 'A'	450mm 'B', TYPE I



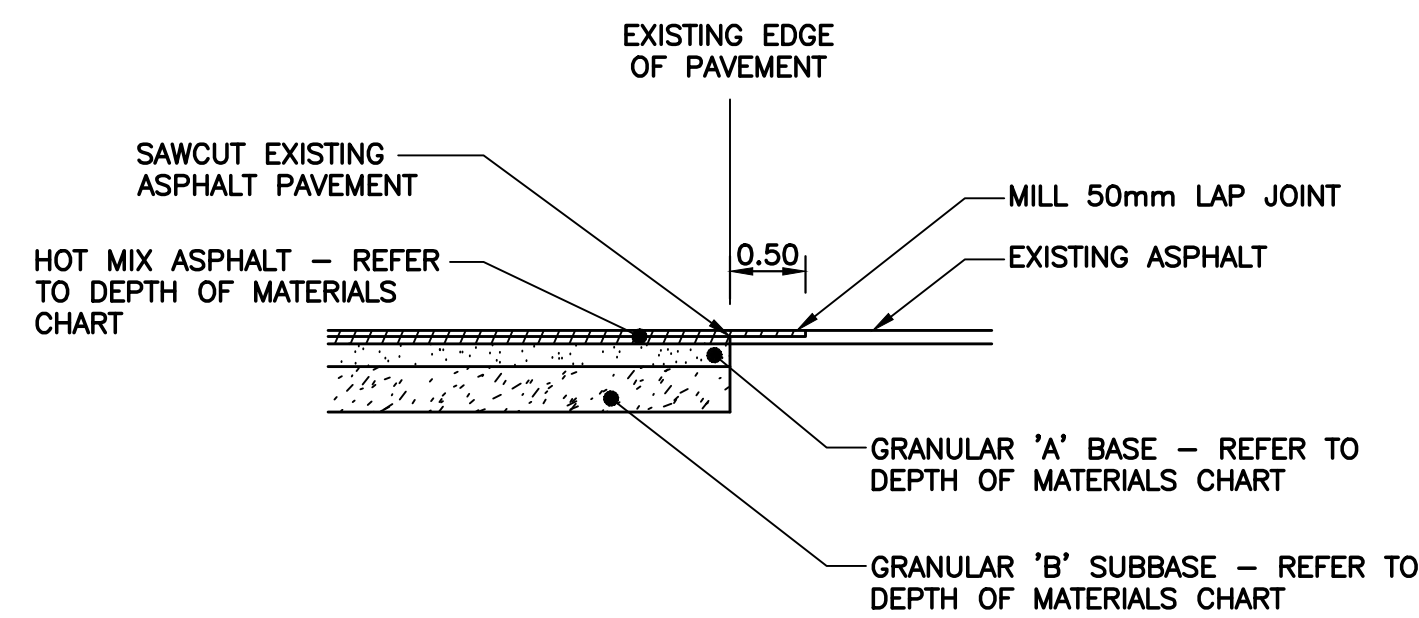
CONCRETE PAD FOR PROPANE TANK
N.T.S.

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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NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

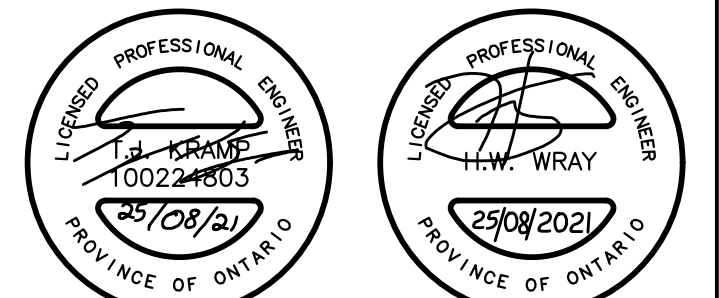
NOTES AND DETAILS

SCALE

AS SHOWN

DATE

JULY 12, 2021

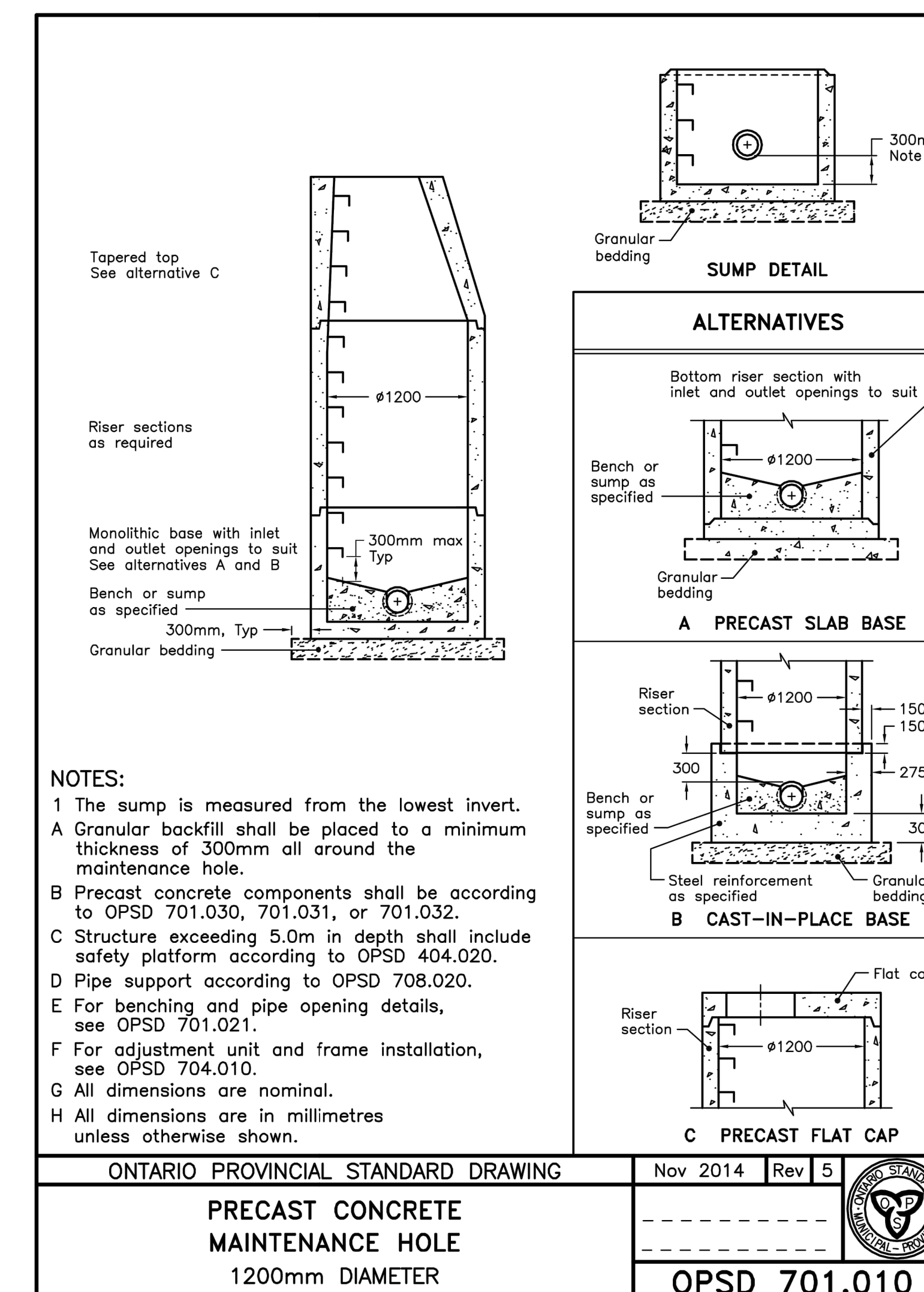
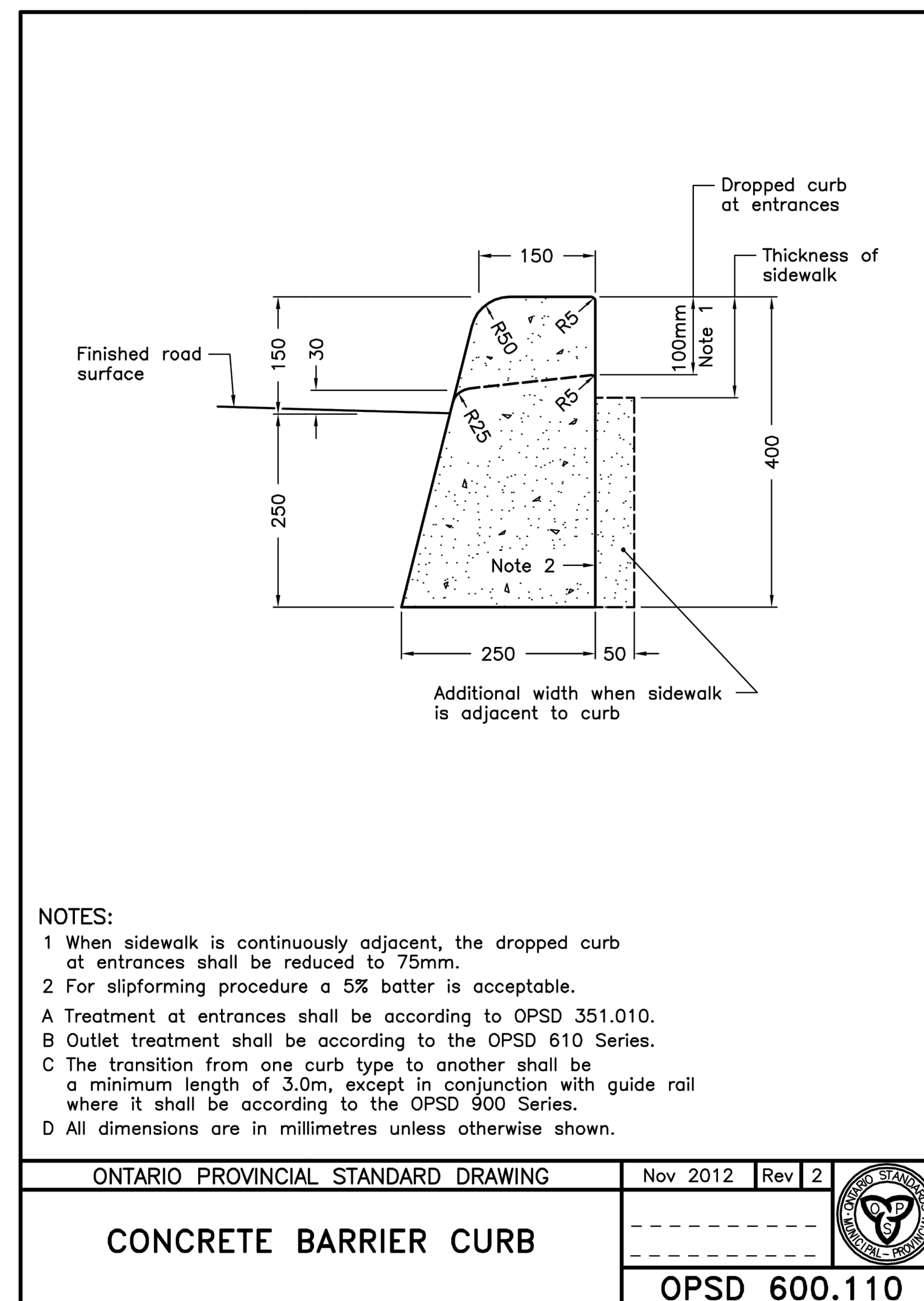
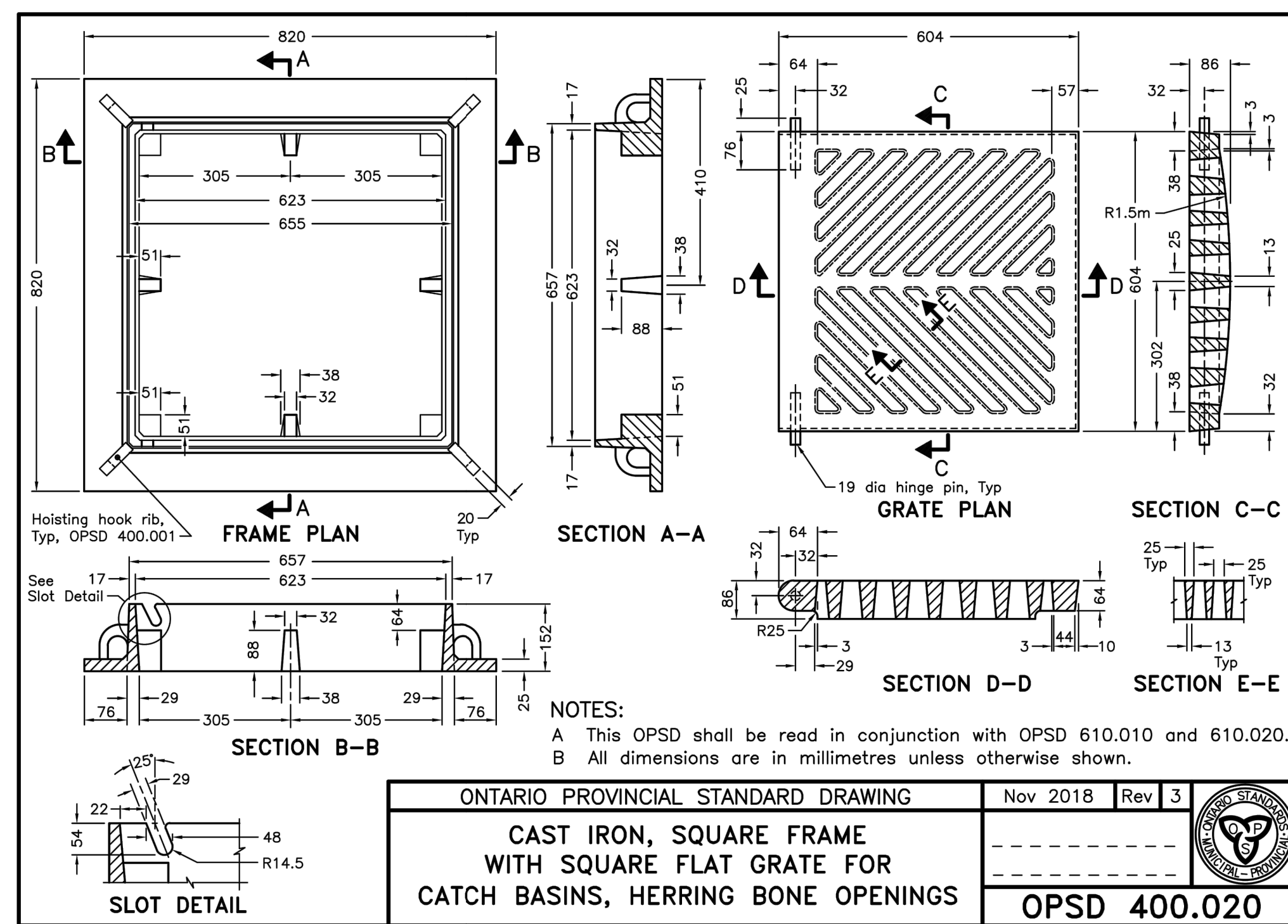
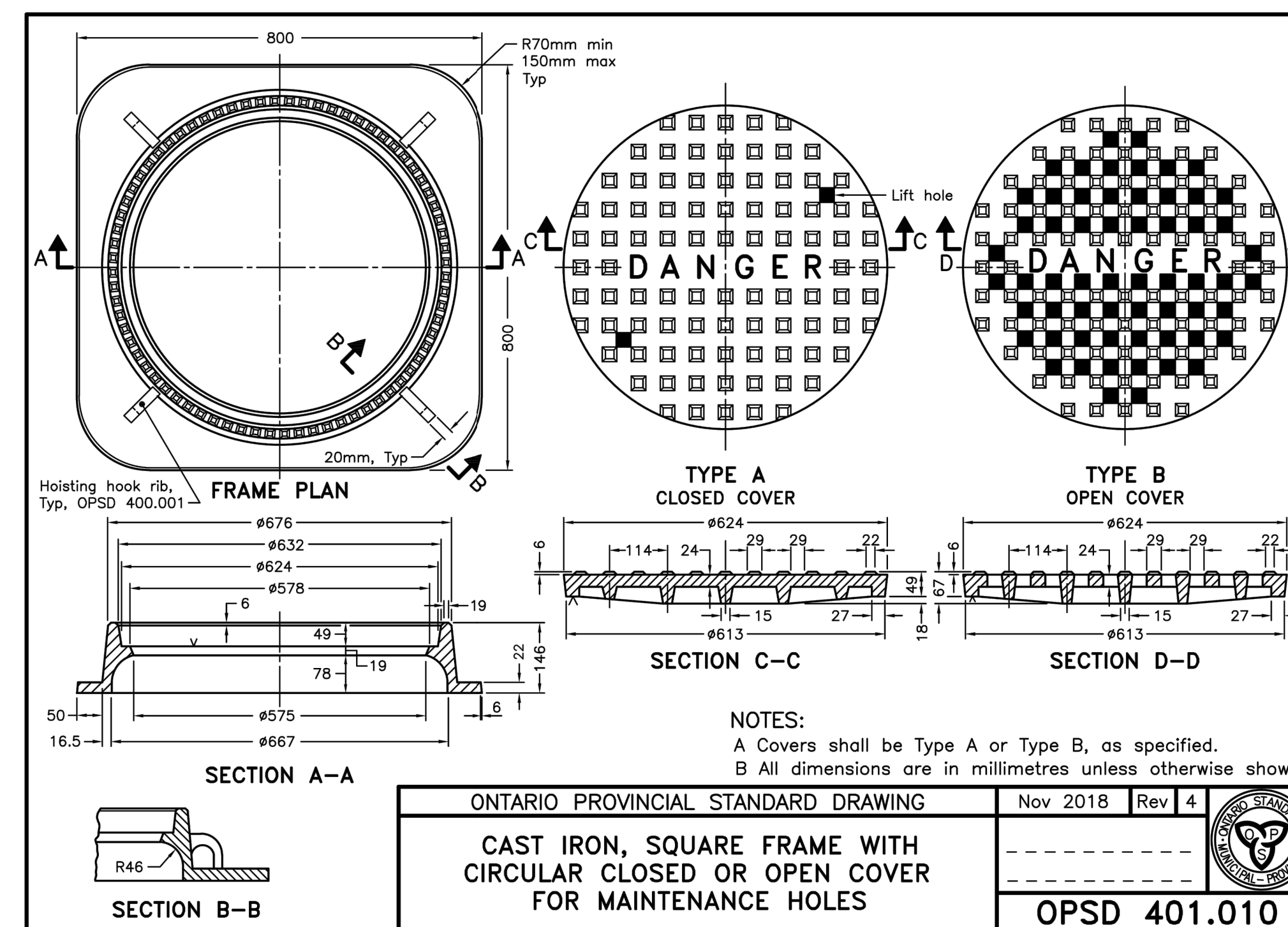
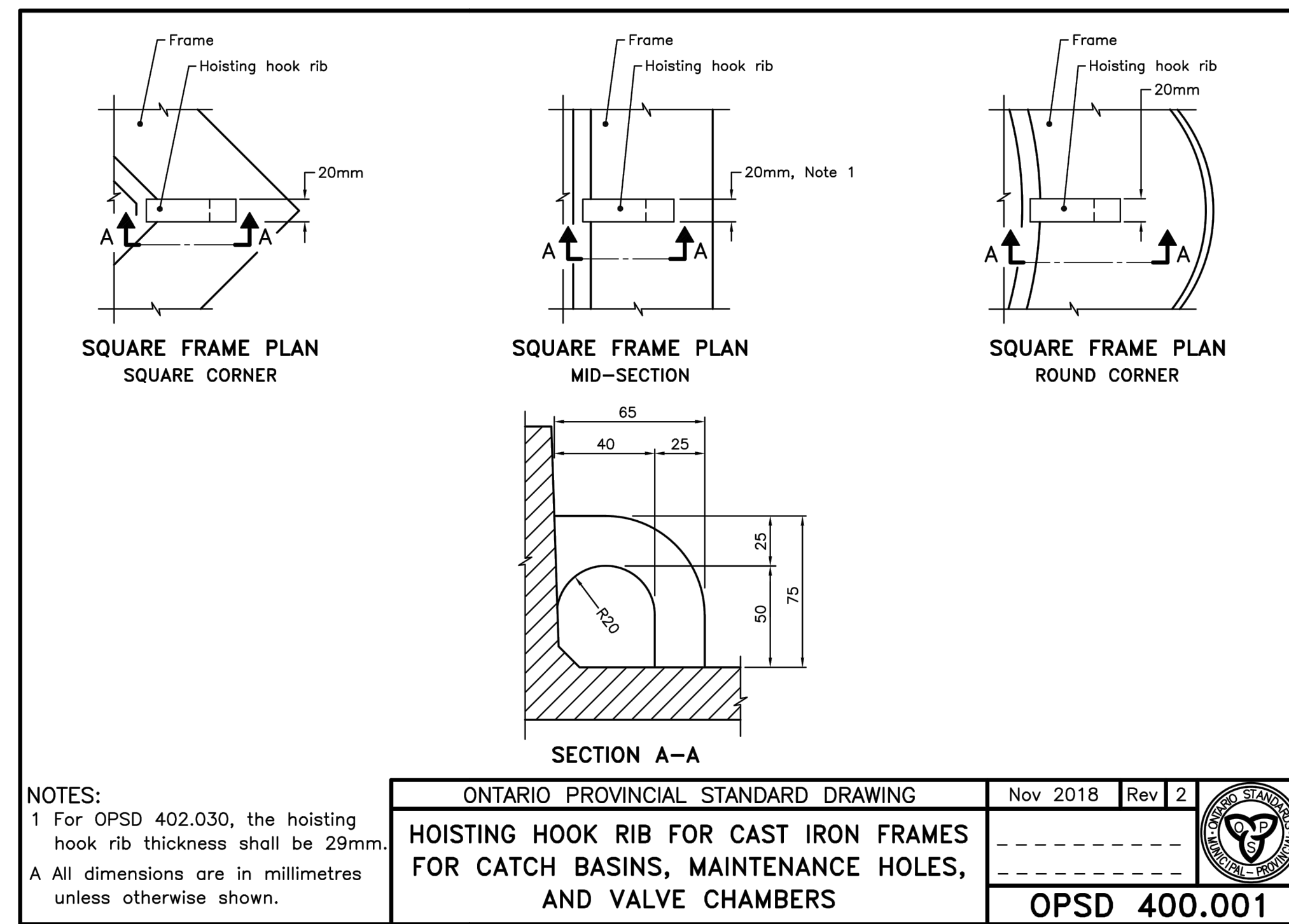


PROJECT NUMBER

2102

DRAWING NUMBER

C-02



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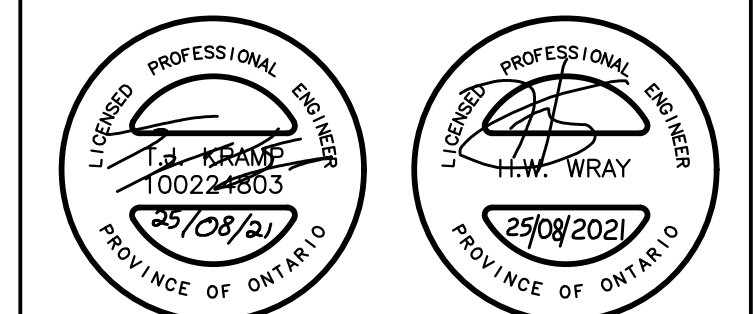
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NORTH ARROW SEAL

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

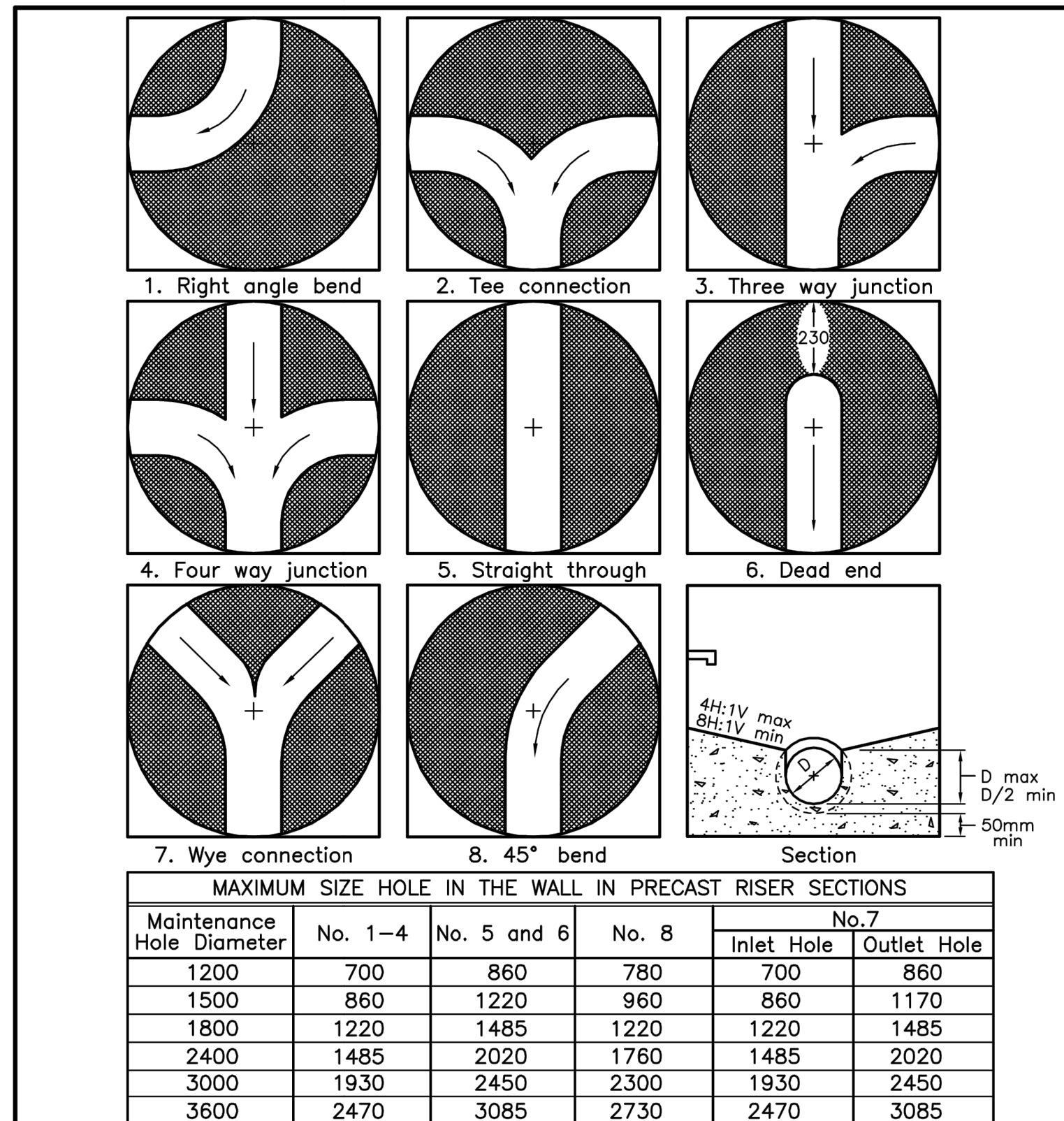
DRAWING TITLE
STANDARDS

SCALE
AS SHOWN
 DATE
AUGUST 24, 2021



PROJECT NUMBER
2102
 DRAWING NUMBER

C-03

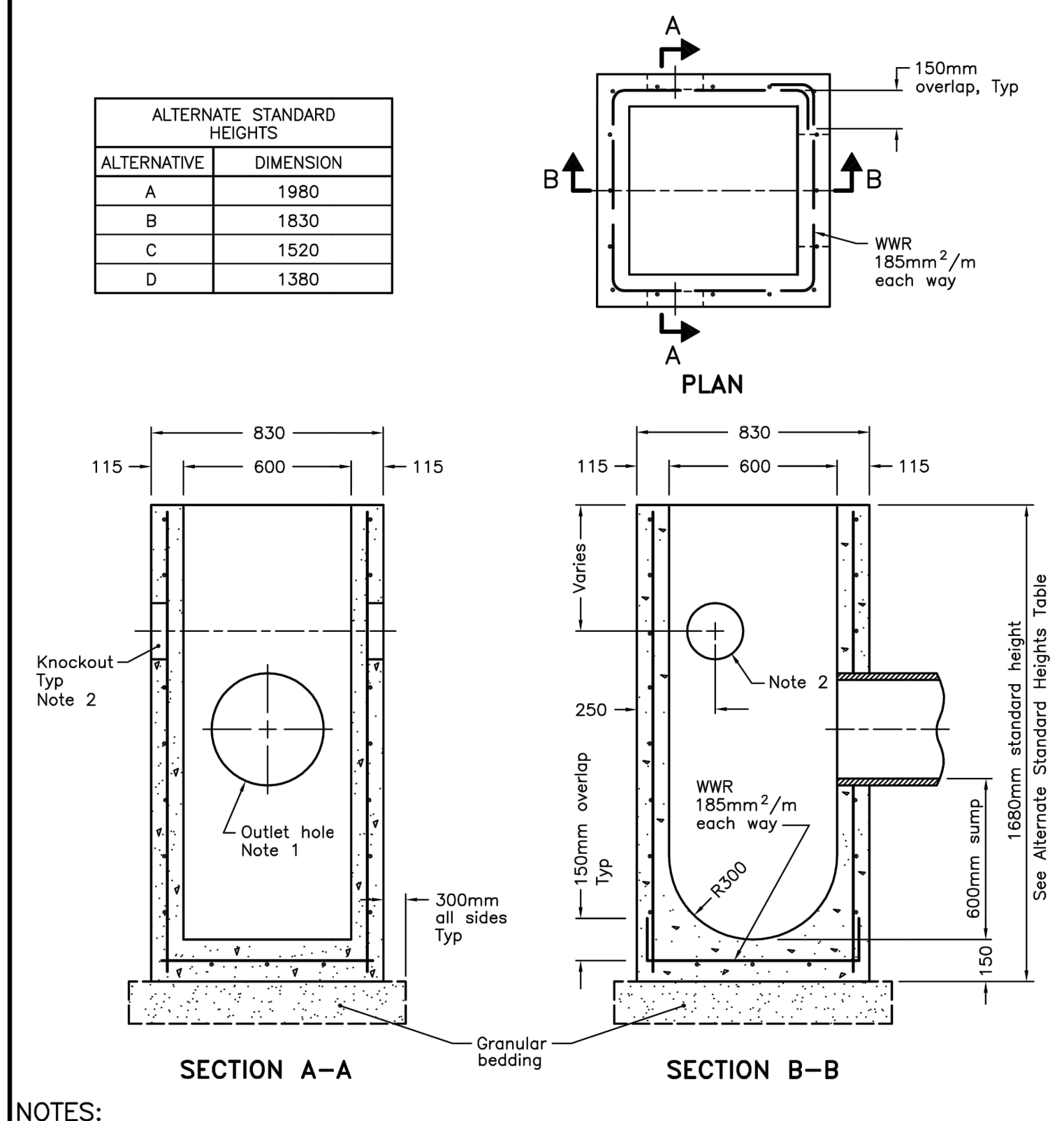


NOTES:
 1 Slopes shall be maintained from the outlet hole opening for top of benching.
 A Concrete for benching shall be 30MPa.
 B When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.
 C Benchings slope and height shall be as specified.
 D When 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

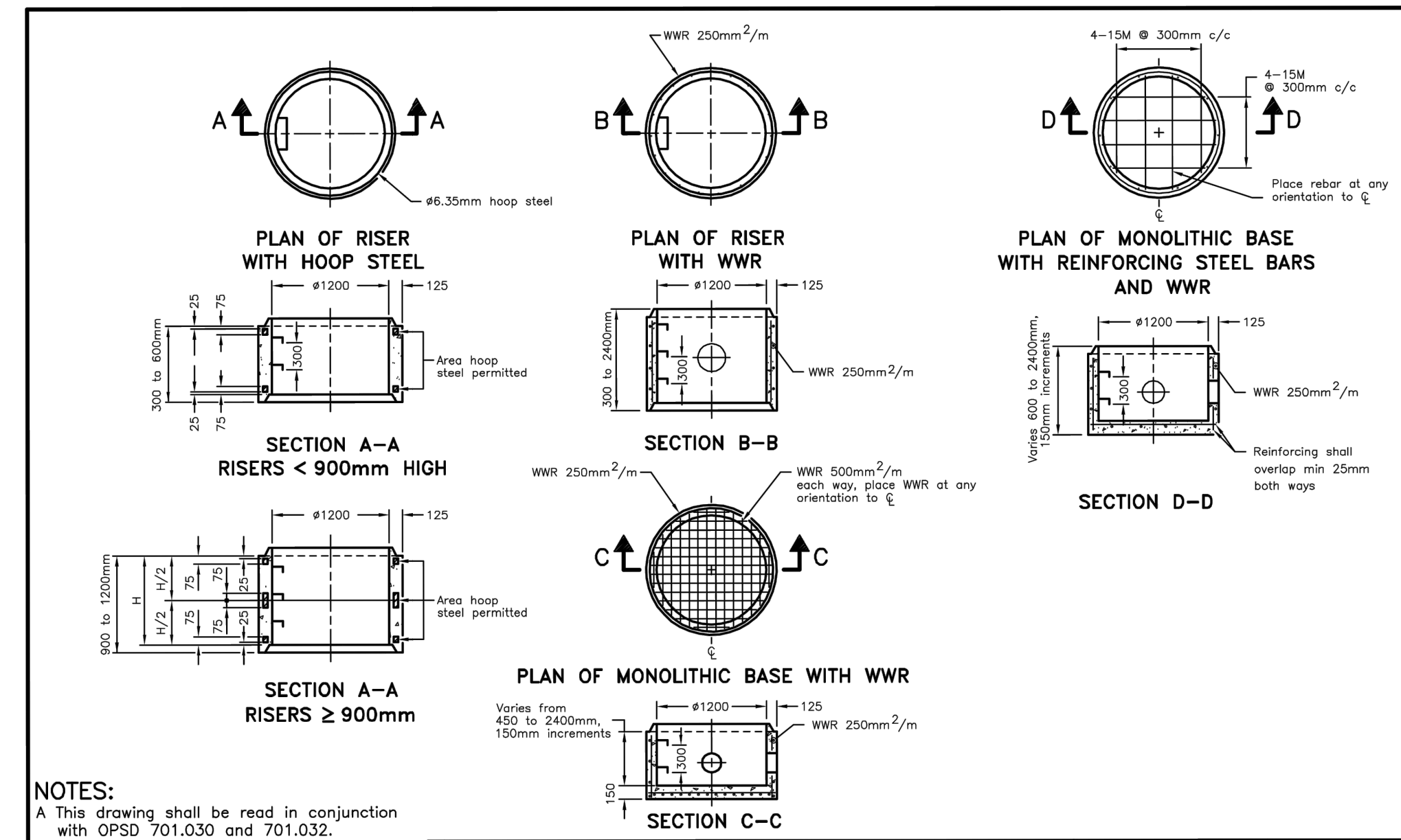


NOTES:
 1 Outlet hole size 525mm diameter maximum, location as required.
 2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
 A Centre reinforcing in base slab and walls ± 20 mm.
 B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
 C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
 D Pipe support shall be according to OPSD 708.020.
 E All dimensions are nominal.
 F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4

PRECAST CONCRETE CATCH BASIN 600x600mm

OPSD 705.010

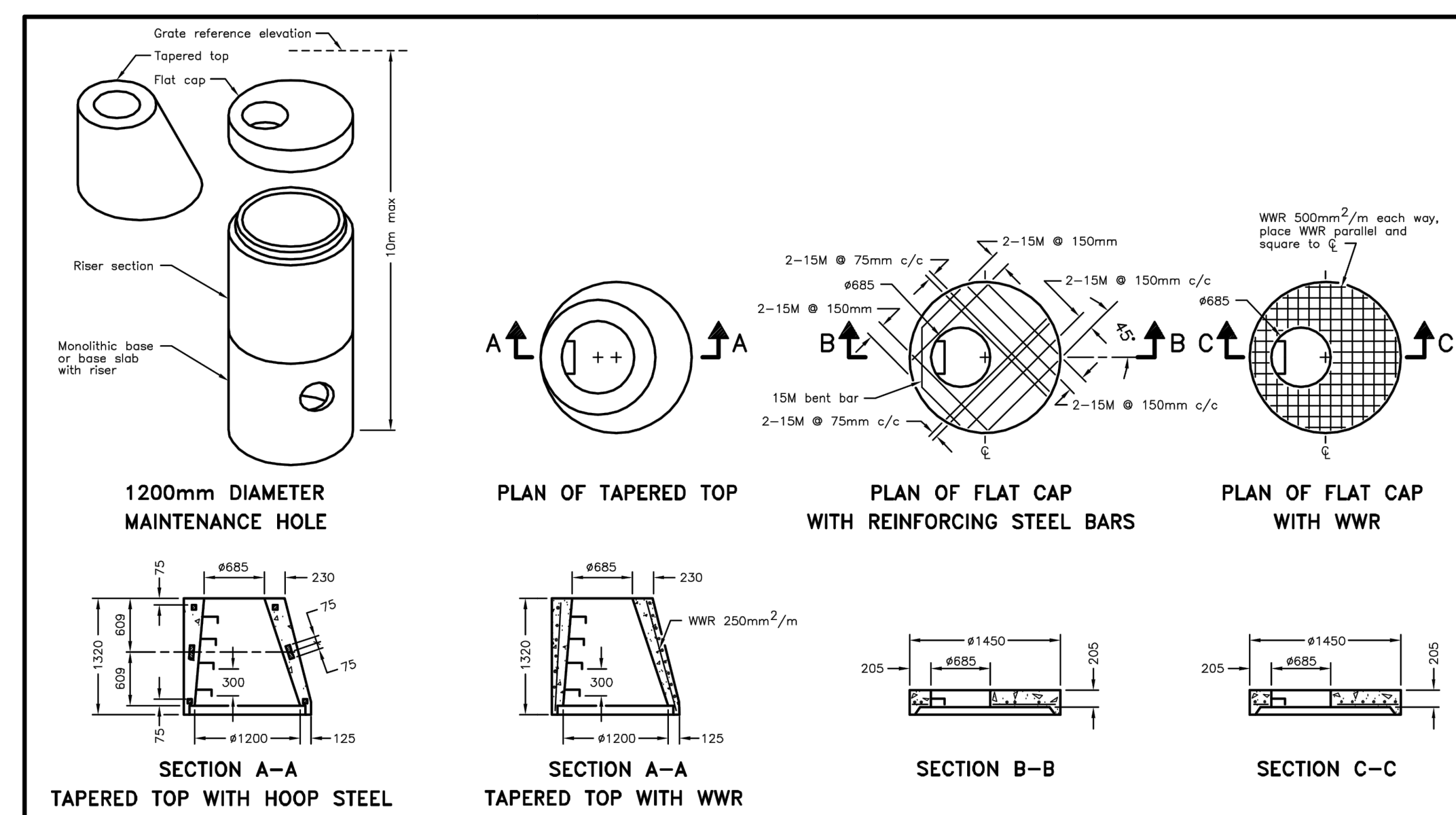


NOTES:
 A This drawing shall be read in conjunction with OPSD 701.030 and 701.032.
 B Centre reinforcing steel in riser ± 20 mm.
 C Steps shall be according to OPSD 405.010 or 405.020.
 D All dimensions are nominal.
 E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 2

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

OPSD 701.031

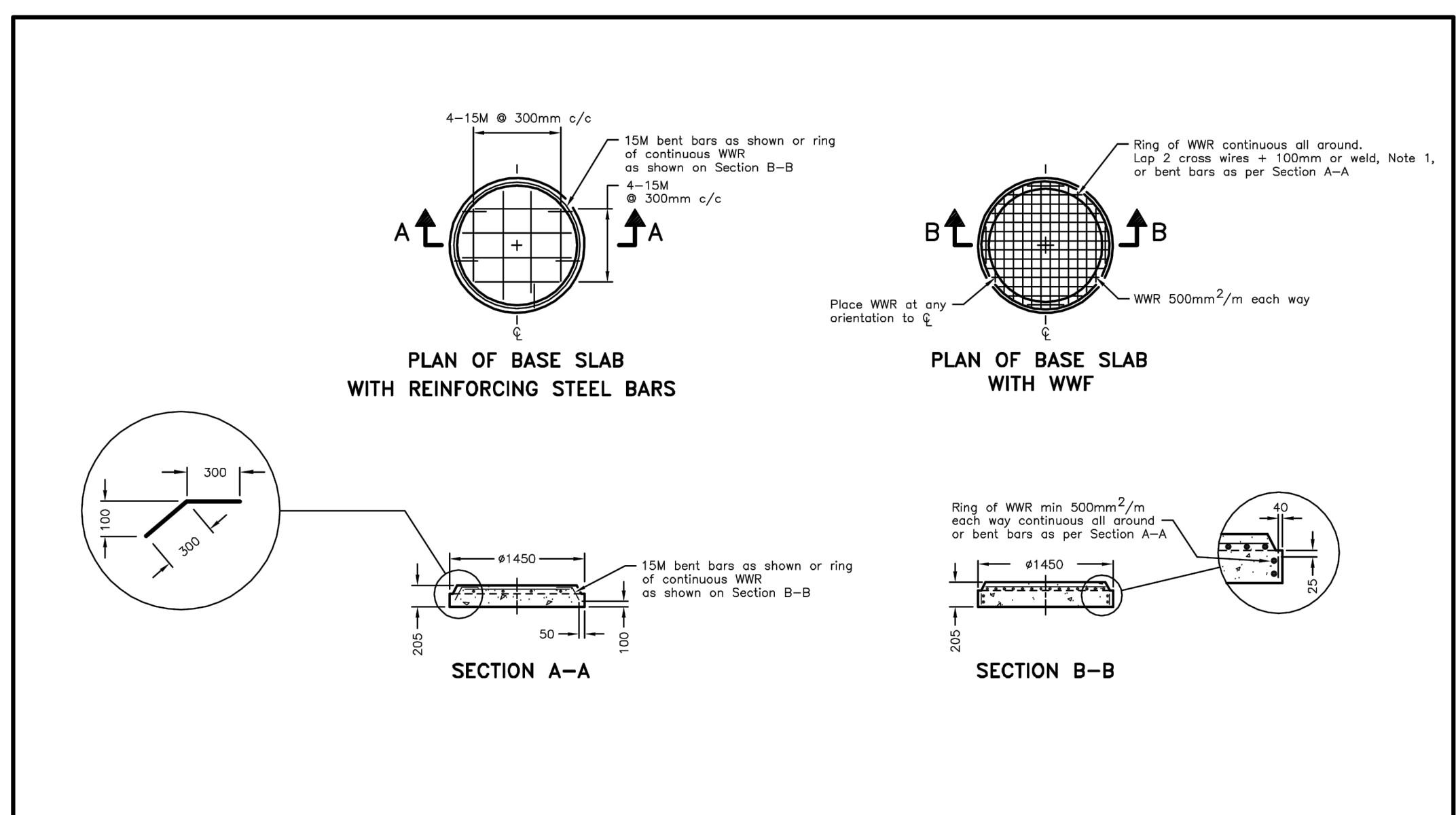


NOTES:
 A This drawing shall be read in conjunction with OPSD 701.031 and 701.032.
 B Centre reinforcing steel in riser ± 20 mm.
 C Steps shall be according to OPSD 405.010 or 405.020.
 D All dimensions are nominal.
 E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 4

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

OPSD 701.030



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 ± 20 mm.
 C All dimensions are nominal.
 D 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
2			
3			
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8			

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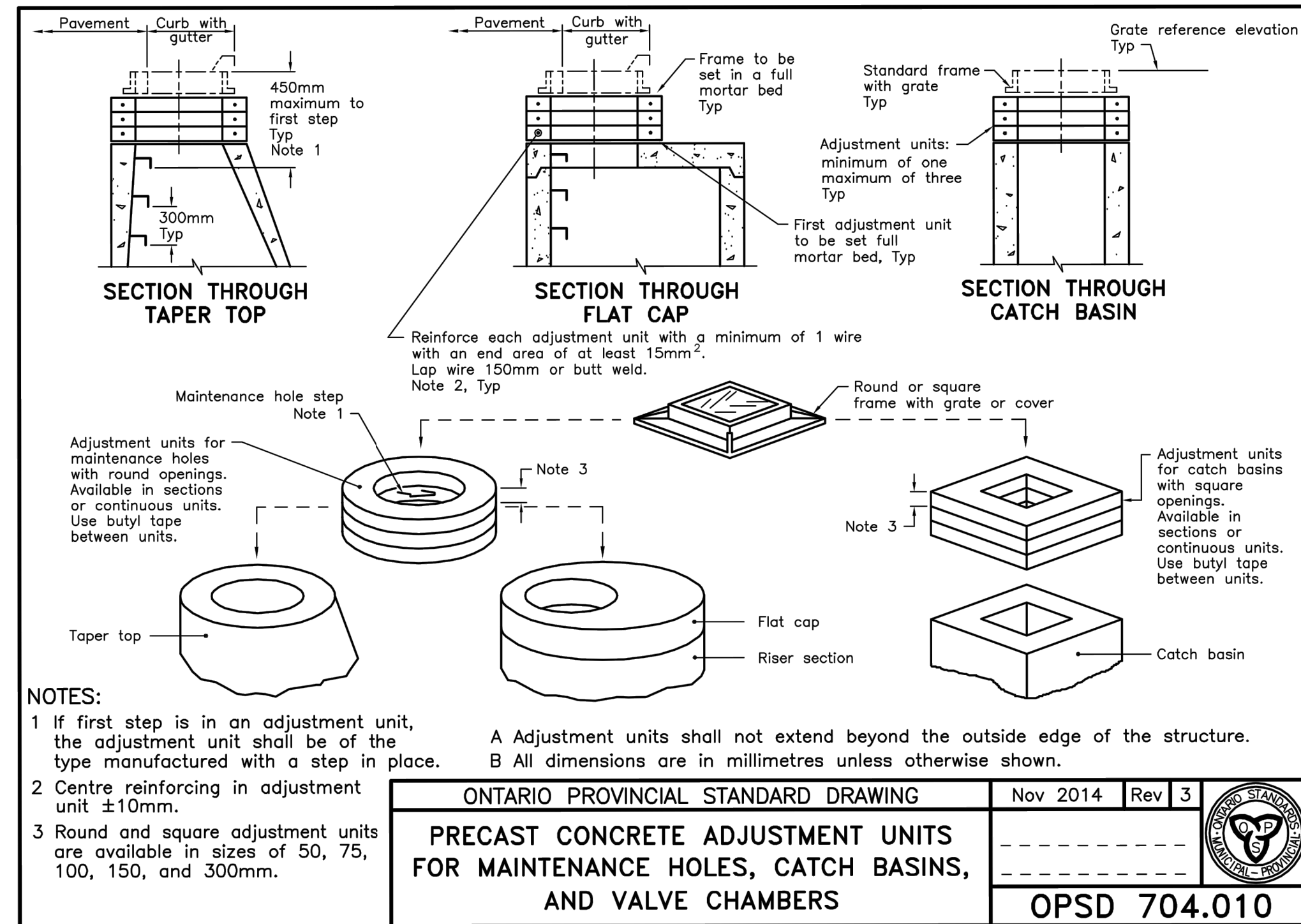
PROJECT TITLE
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE
STANDARDS

SCALE
AS SHOWN
 DATE
AUGUST 24, 2021



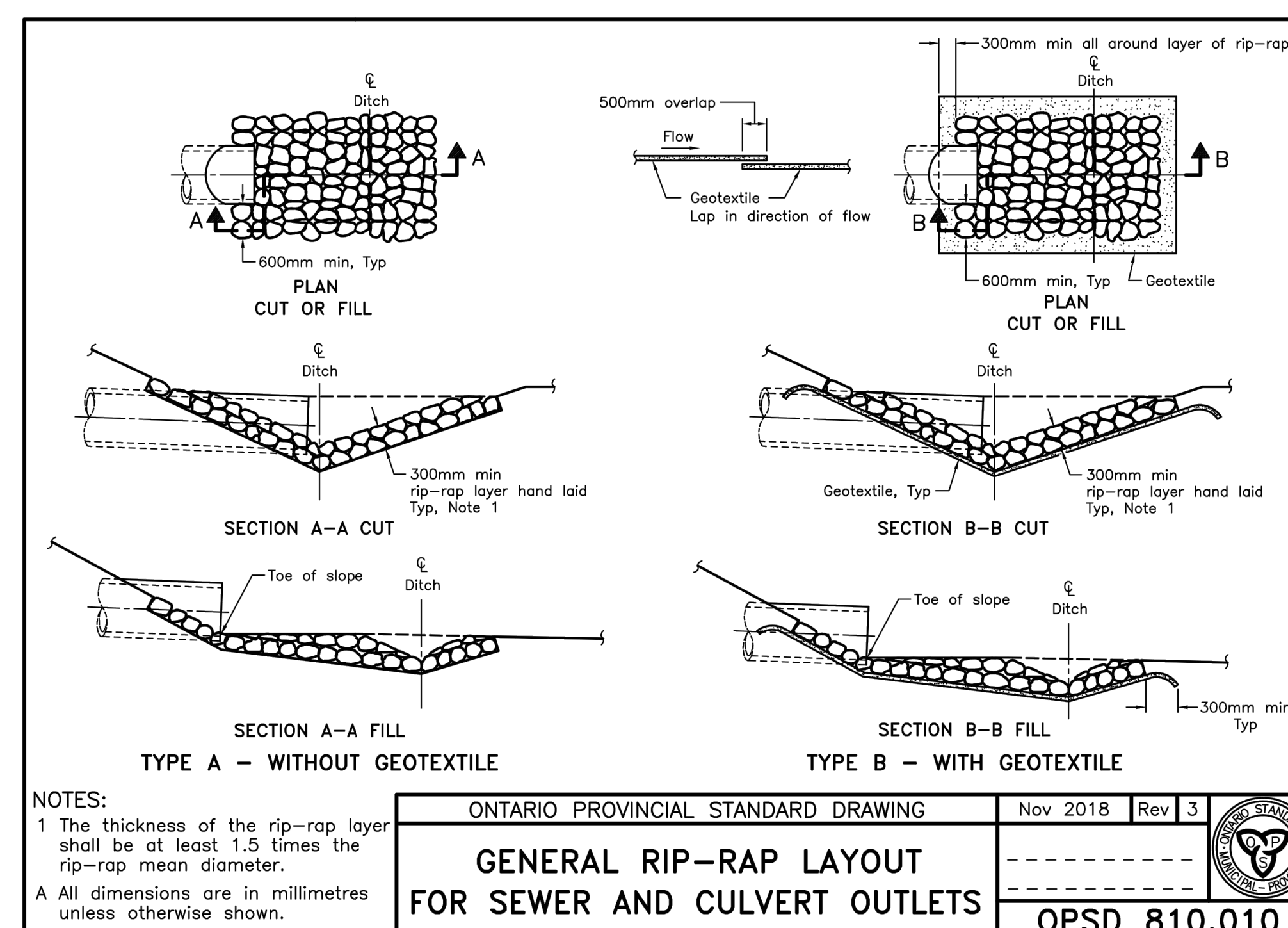
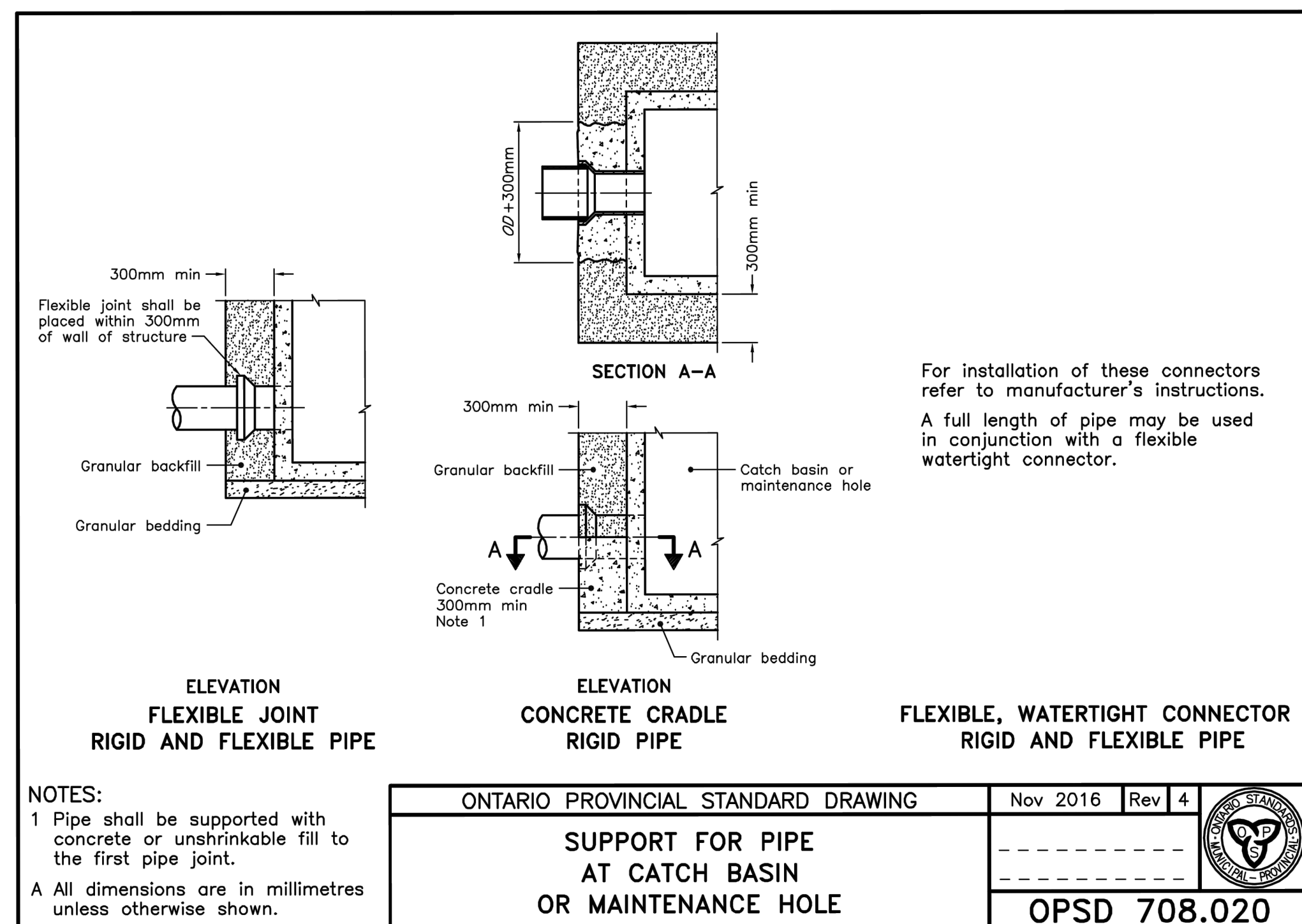
PROJECT NUMBER
2102
 DRAWING NUMBER



PIPE DIA mm	TRENCH WIDTH	MAXIMUM HEIGHT OF FILL				MINIMUM HEIGHT OF FILL
		320 kPa		RSC 160		All Pipe Classes Granular B (Type I and II)
		Granular A	Granular B (Type I and II)	Granular A	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	
1200	2.0	-	-	6.4	4.6	
1500	2.4	-	-	6.4	4.3	

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



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REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	AUGUST 25, 2021	HW
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 e: sayers@apsley.ca

NORTH ARROW SEAL

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

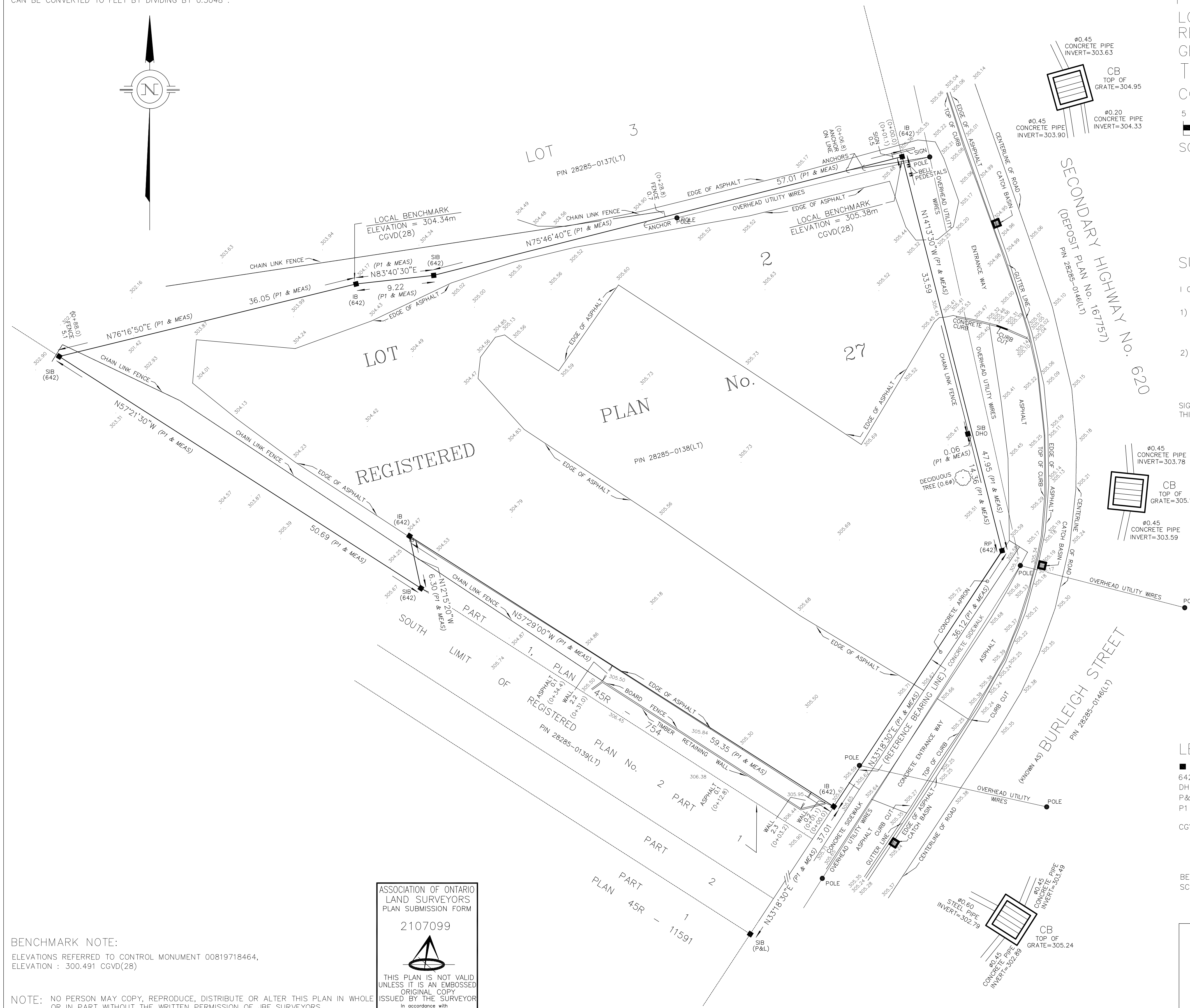
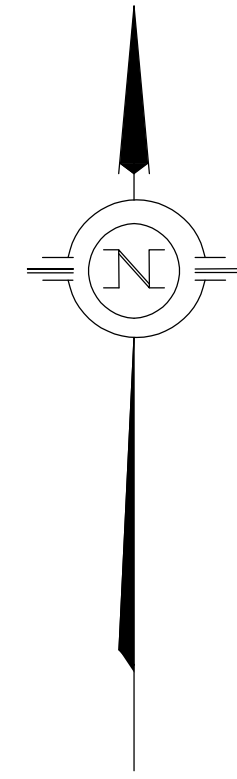
DRAWING TITLE
STANDARDS

SCALE
AS SHOWN
 DATE
AUGUST 24, 2021

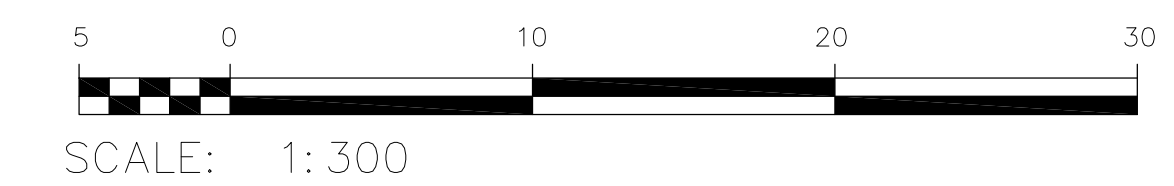
PROJECT NUMBER
2102
 DRAWING NUMBER

C-05

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



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. MUSCLOW
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 N3°18'30\"/>

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

ASSOCIATION OF ONTARIO
LAND SURVEYORS
PLAN SUBMISSION FORM
2107099

THIS PLAN IS NOT VALID
UNLESS IT IS AN EMBOSSED
ORIGINAL COPY
ISSUED BY THE SURVEYOR
In accordance with
Regulation 1026, Section 29(3).

NOTE: NO PERSON MAY COPY, REPRODUCE, DISTRIBUTE OR ALTER THIS PLAN IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF JBF SURVEYORS.
? JBF SURVEYORS 2021



JBF SURVEYORS
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LAKEFIELD, ON K0L 2H0
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INFO@JBFSURVEYORS.COM
WWW.JBFSURVEYORS.COM
PROJ. # 8013

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.

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
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7			
8			

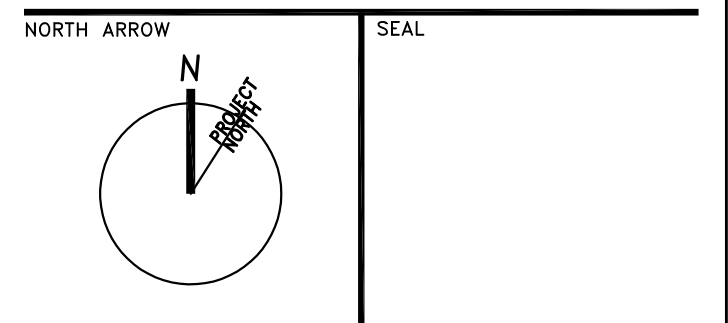
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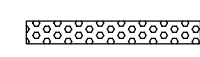
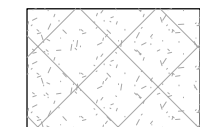
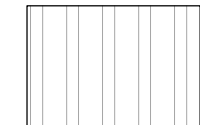
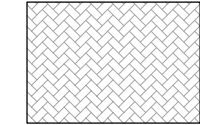
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
SITE SURVEY
SCALE
NTS
DATE
AUGUST 2021

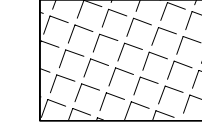
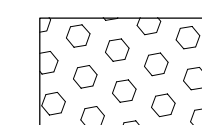
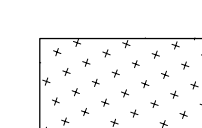
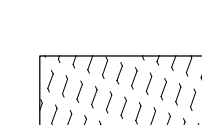
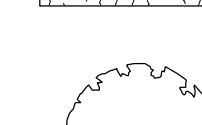
PROJECT NUMBER
2102
DRAWING NUMBER

A001


LEGEND - MATERIALS

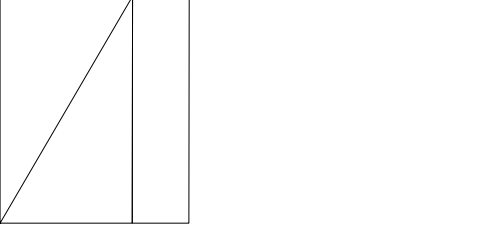
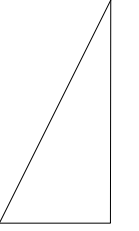
-  CAST IRON TACTILE WARNING TILES EMBEDDED IN CONCRETE
-  CIP PEDESTRIAN CONCRETE PAVING, EXPOSED AGGREGATE FINISH
-  HEAVY DUTY ASPHALT PAVING
-  UNIT PAVING - UNILOCK COPHORNE OR APPROVED EQUIVALENT

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 HORIZON TALIS (MOTHER LODE JUNIPER)
SPACING 150cm
-  SP4 - SHRUB PLANTING 4
RHUS AROMATICA (FRAGRANT SUMAC)
SPACING 150cm
-  CELTIS OCCIDENTALIS (COMMON HACKBERRY TREE)
70cm CALIPER

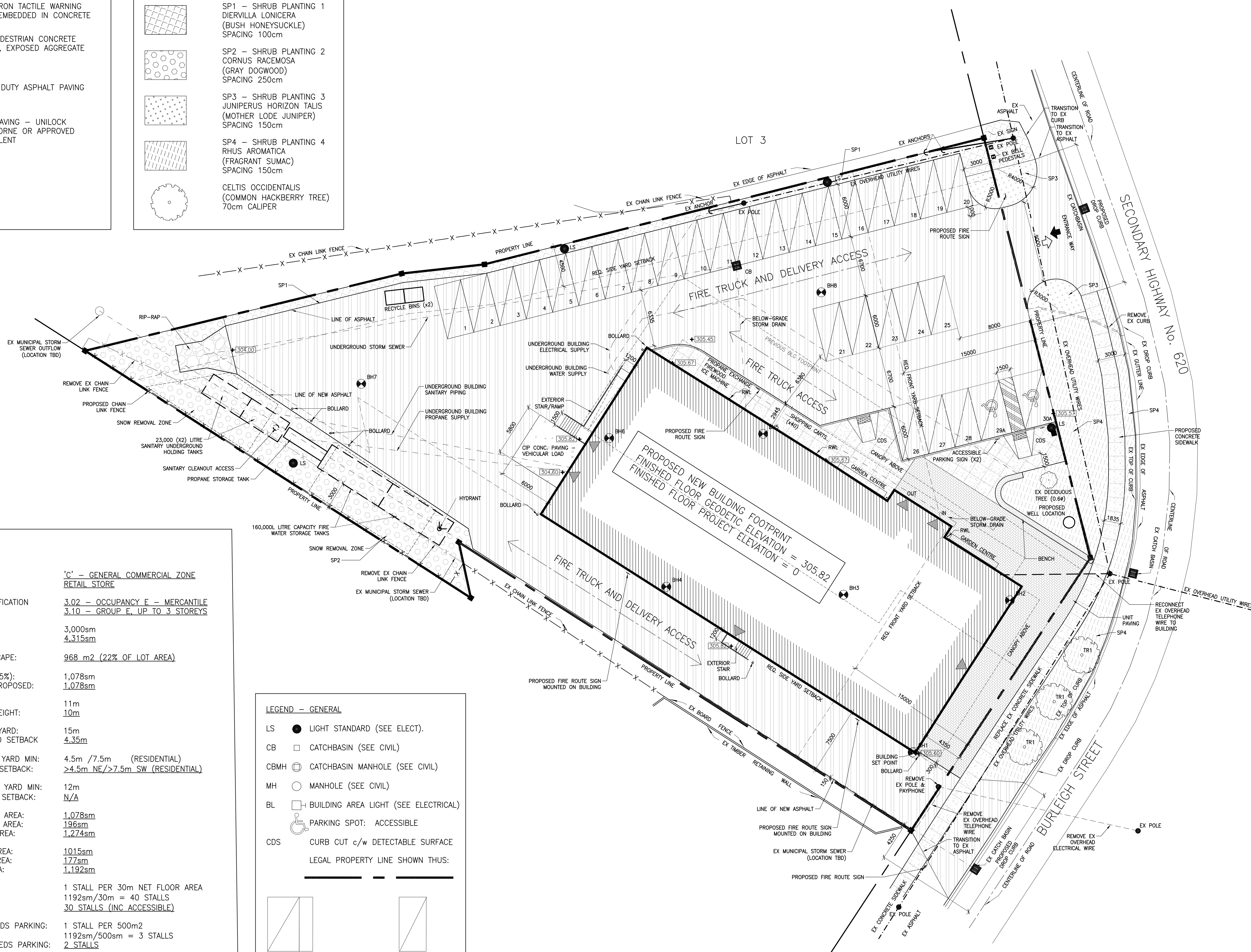
LEGEND - GENERAL

- 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

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:	1015sm
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



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1	ISSUED FOR SPA	210618	AB
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4	REVISED SPA	210809	AB
5	ISSUED FOR TENDER	210824	AB
6			
7			
8			

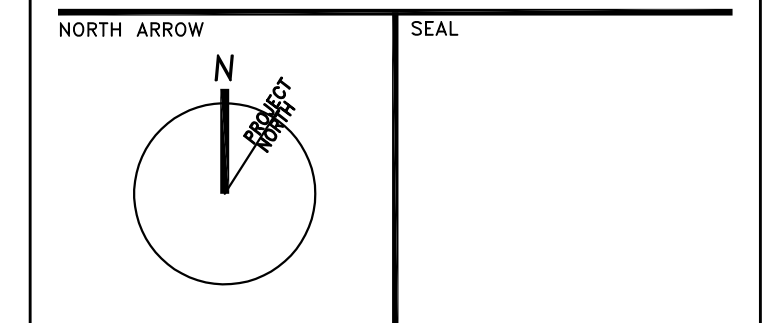
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
SITE PLAN

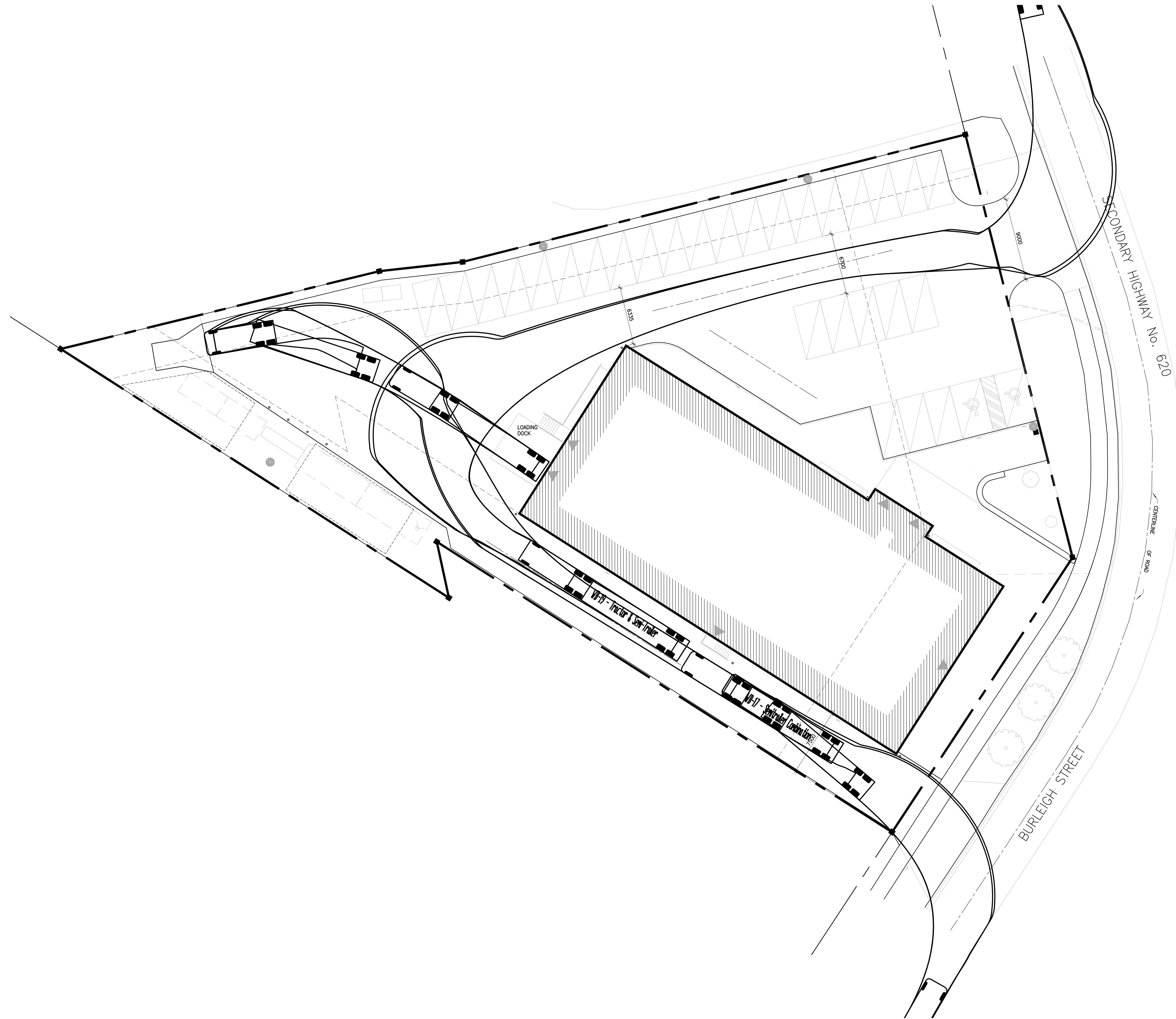
SCALE
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DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A002



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REVISIONS AND ISSUES

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BLACKWELL
STRUCTURAL ENGINEERS

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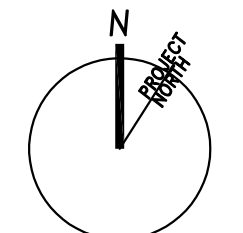
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NORTH ARROW SEAL



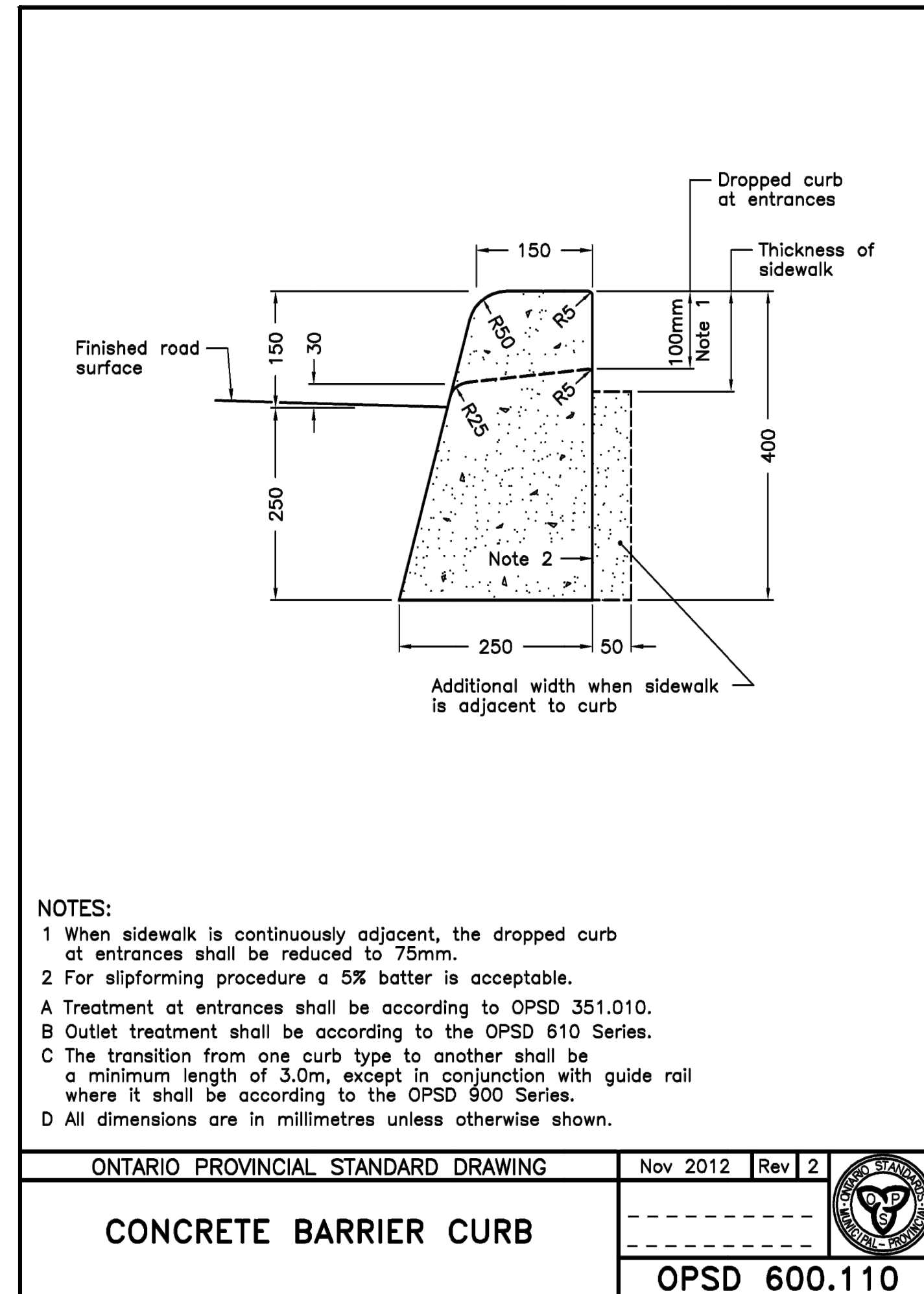
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
LOADING STUDY PLAN

SCALE
1:200
DATE
AUGUST 2021

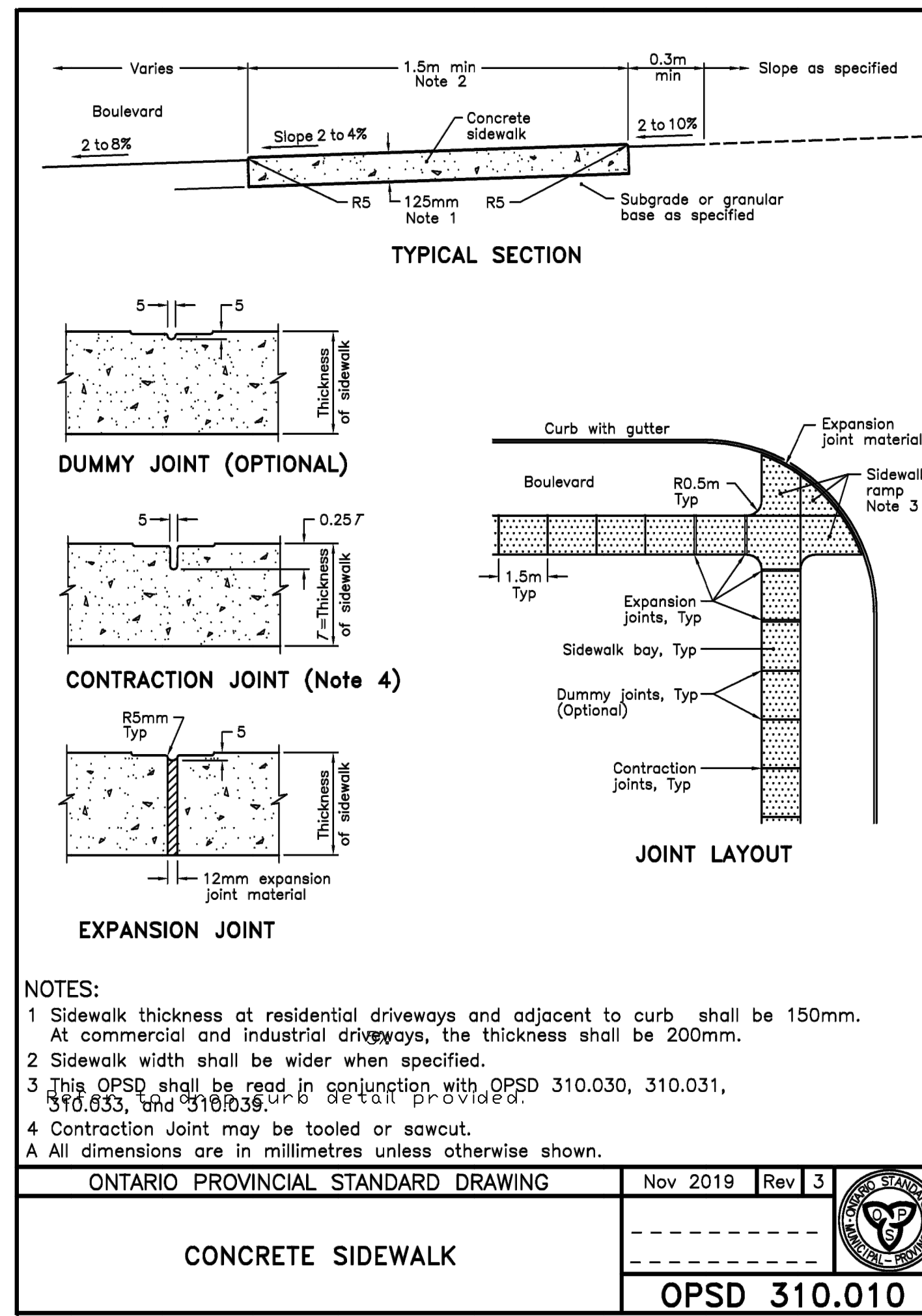
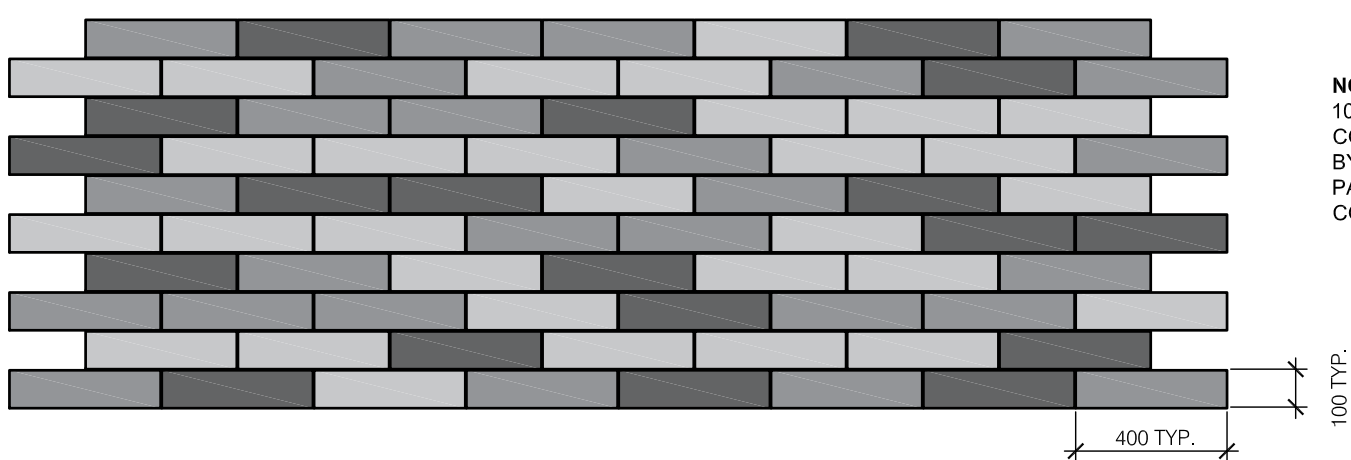
PROJECT NUMBER
2102
DRAWING NUMBER

A003



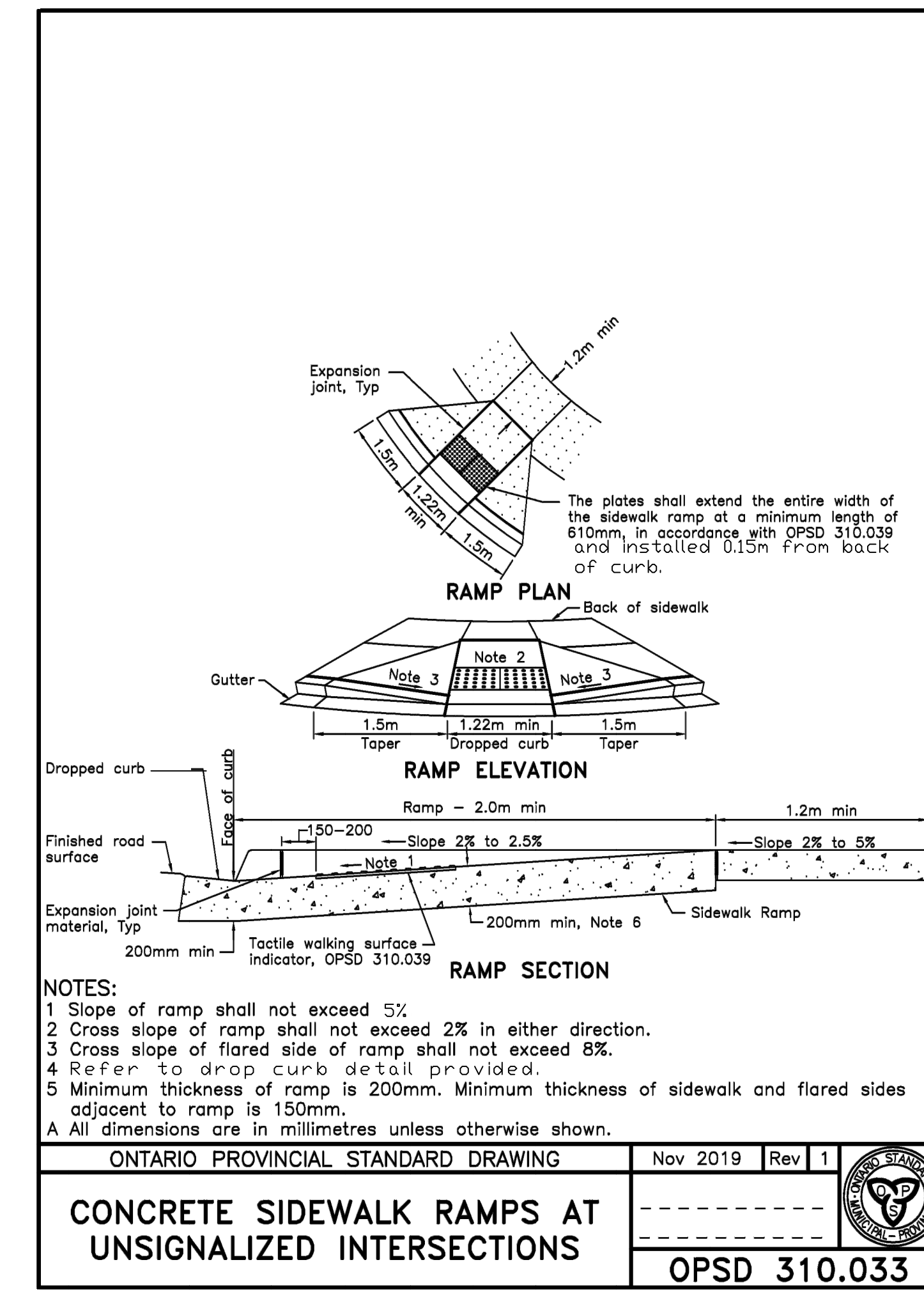
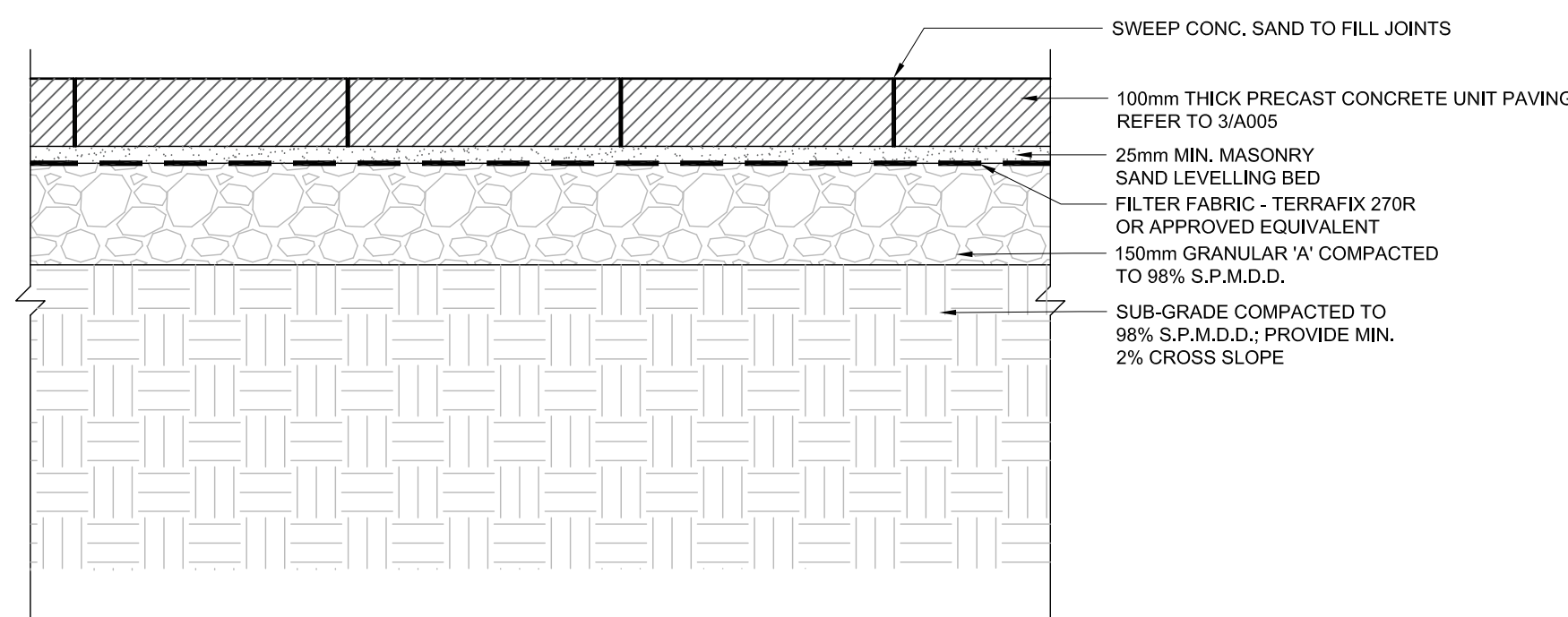
6 CONCRETE BARRIER CURB
N.T.S.

3 PRECAST CONCRETE UNIT PAVING PATTERN
1:20



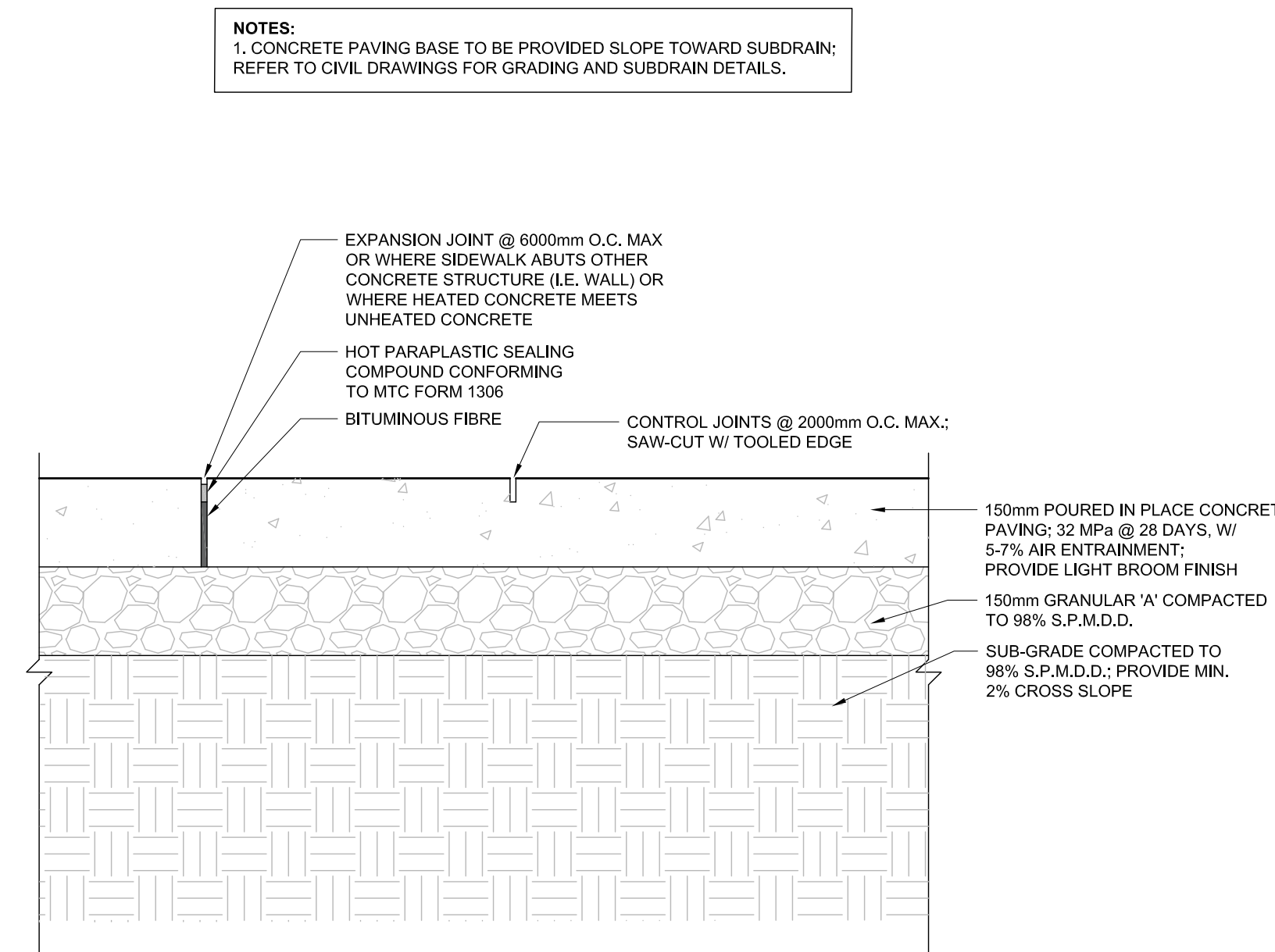
5 CONCRETE SIDEWALK
N.T.S.

2 PRECAST CONCRETE UNIT PAVING
1:10



4 CONCRETE SIDEWALK RAMP
N.T.S.

1 CIP CONCRETE PAVING
1:10



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REV	DESCRIPTION	DATE	BY
1	ISSUED FOR SPA	210618	AB
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4	REVISED SPA	210809	AB
5	ISSUED FOR TENDER	210824	AB
6			
7			
8			

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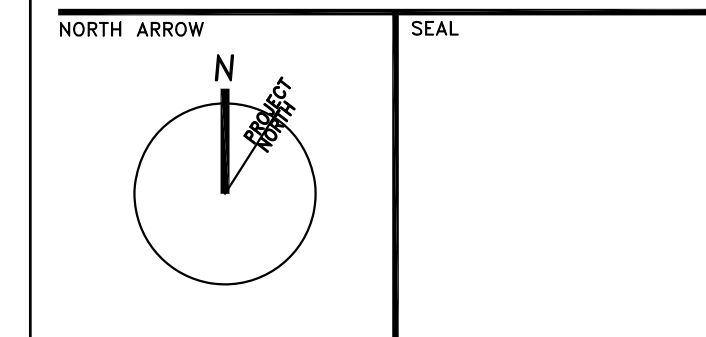
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 e: sayers@apsley.ca



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

DRAWING TITLE
**SITE PLAN
 DETAILS 1**

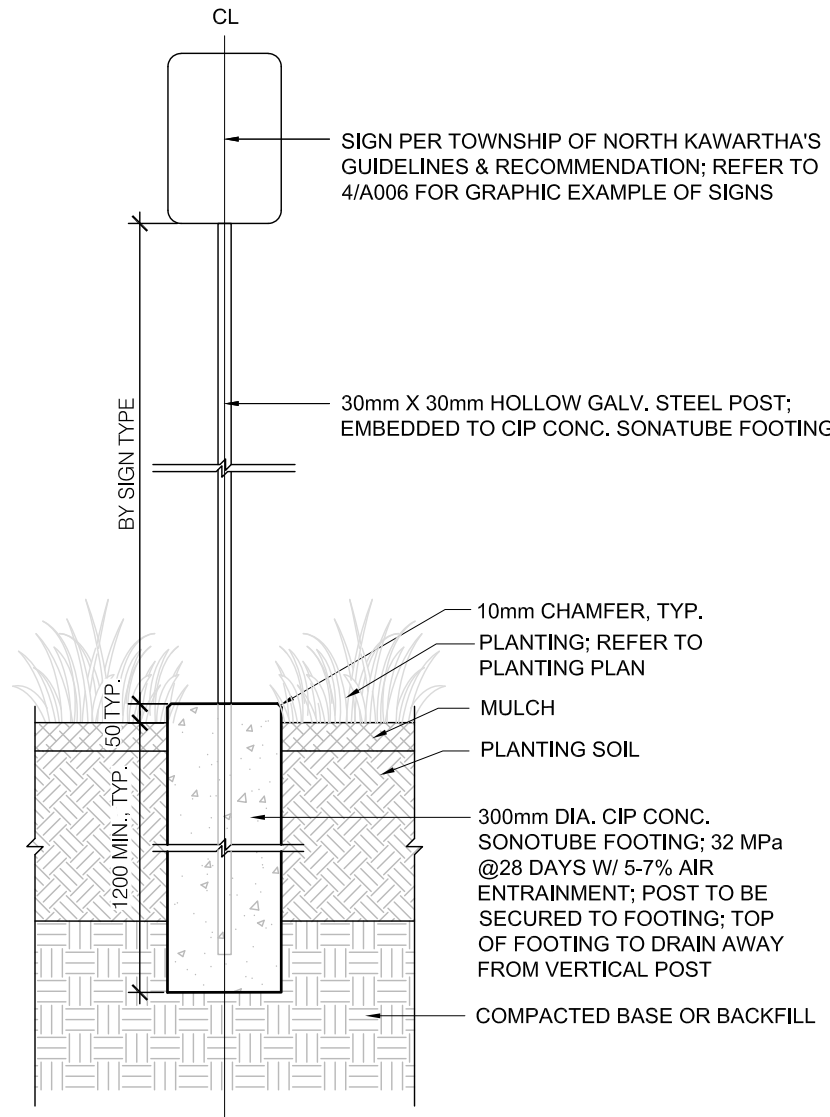
SCALE
AS NOTED

DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

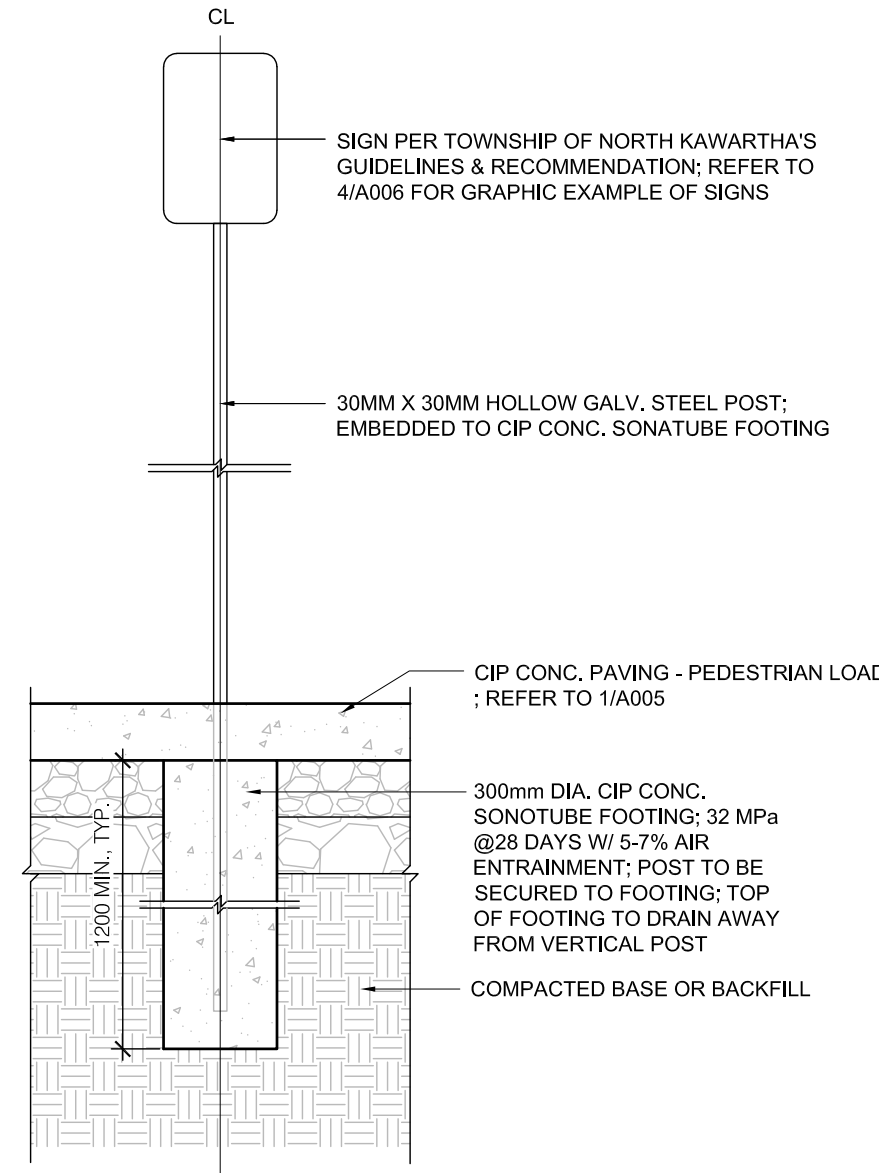
A005

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:
 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.
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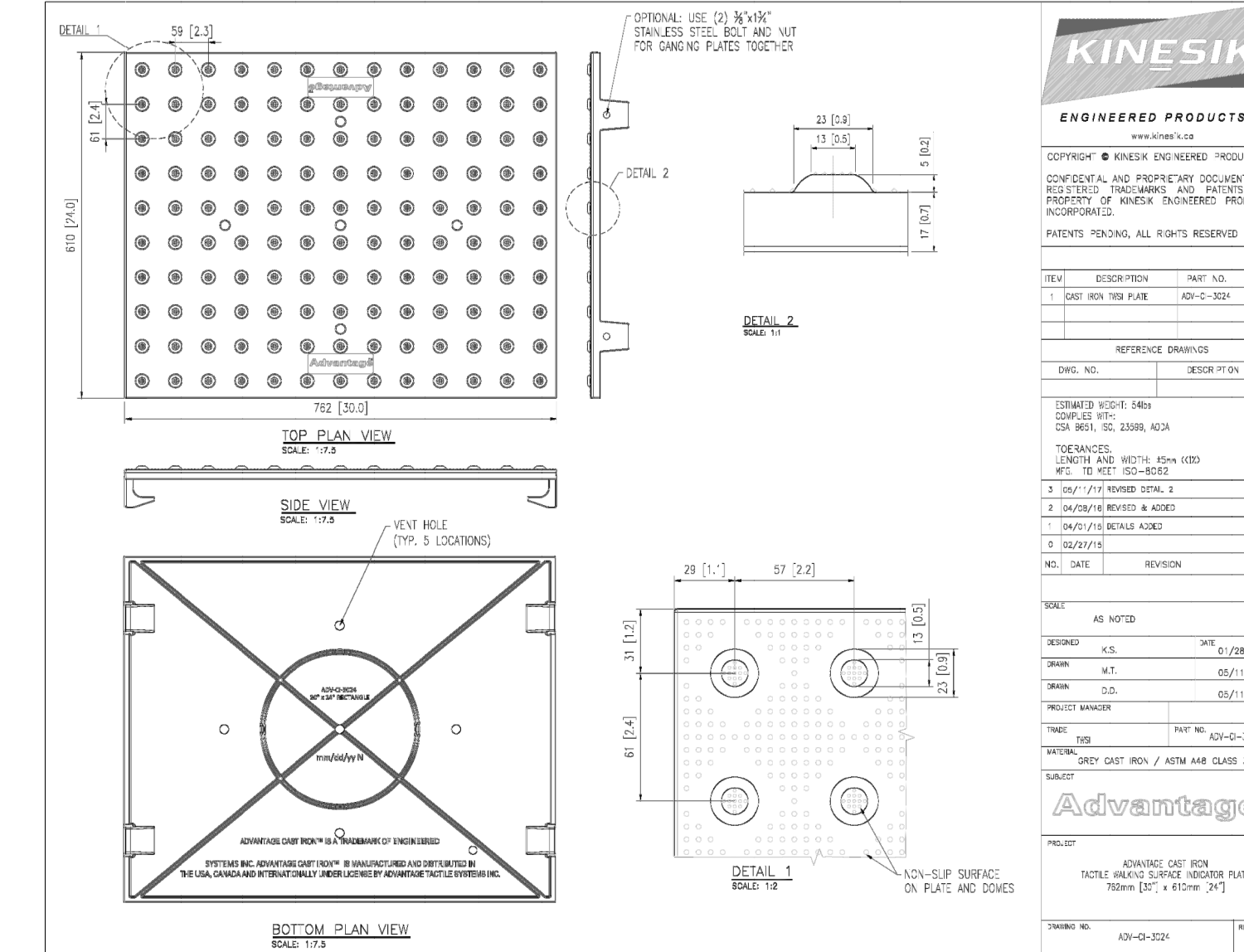


5 SIGN POST AT CIP CONCRETE PAVING
1:20



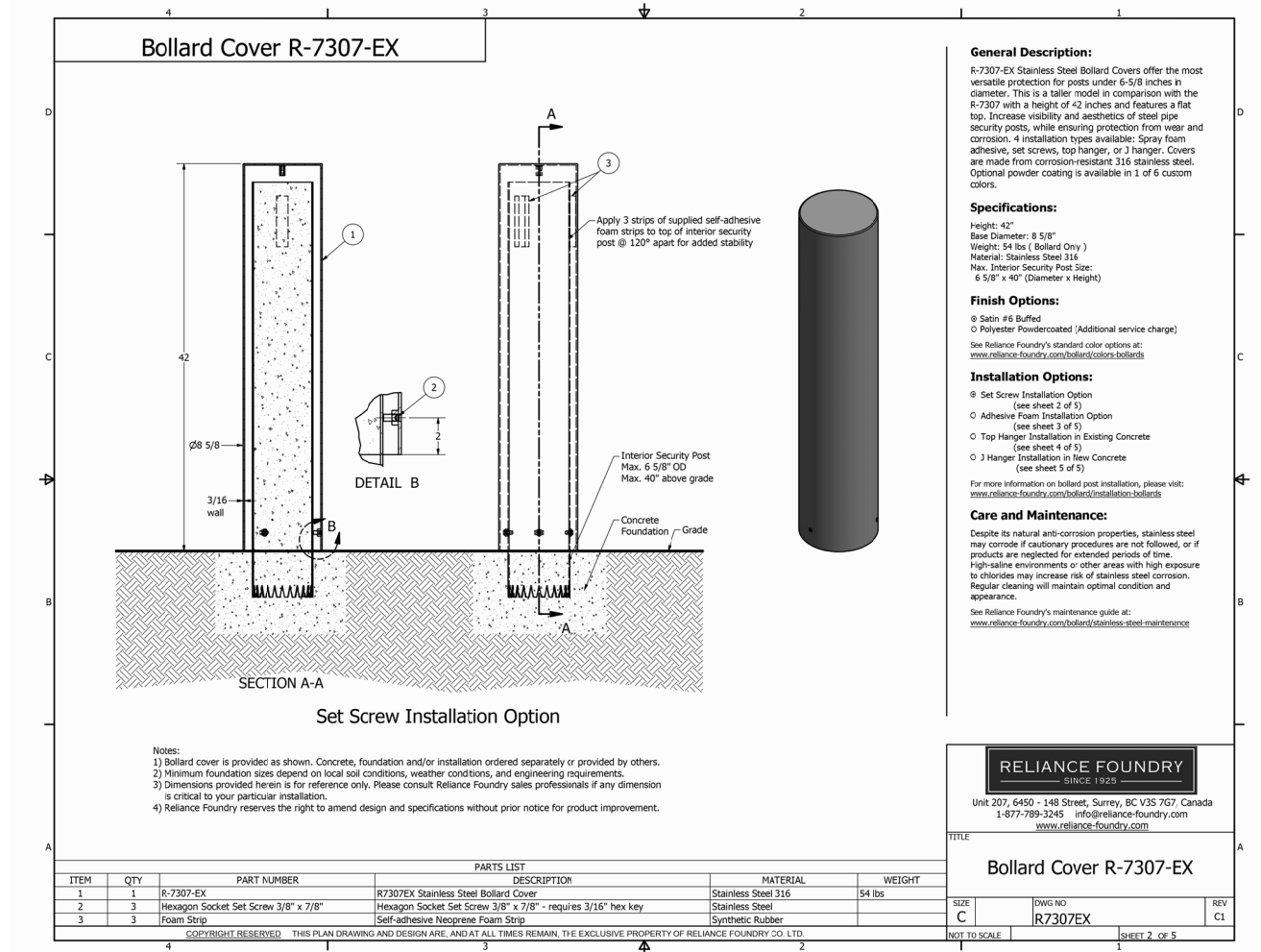
4 GRAPHIC EXAMPLES OF SIGNS
N.T.S.

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.



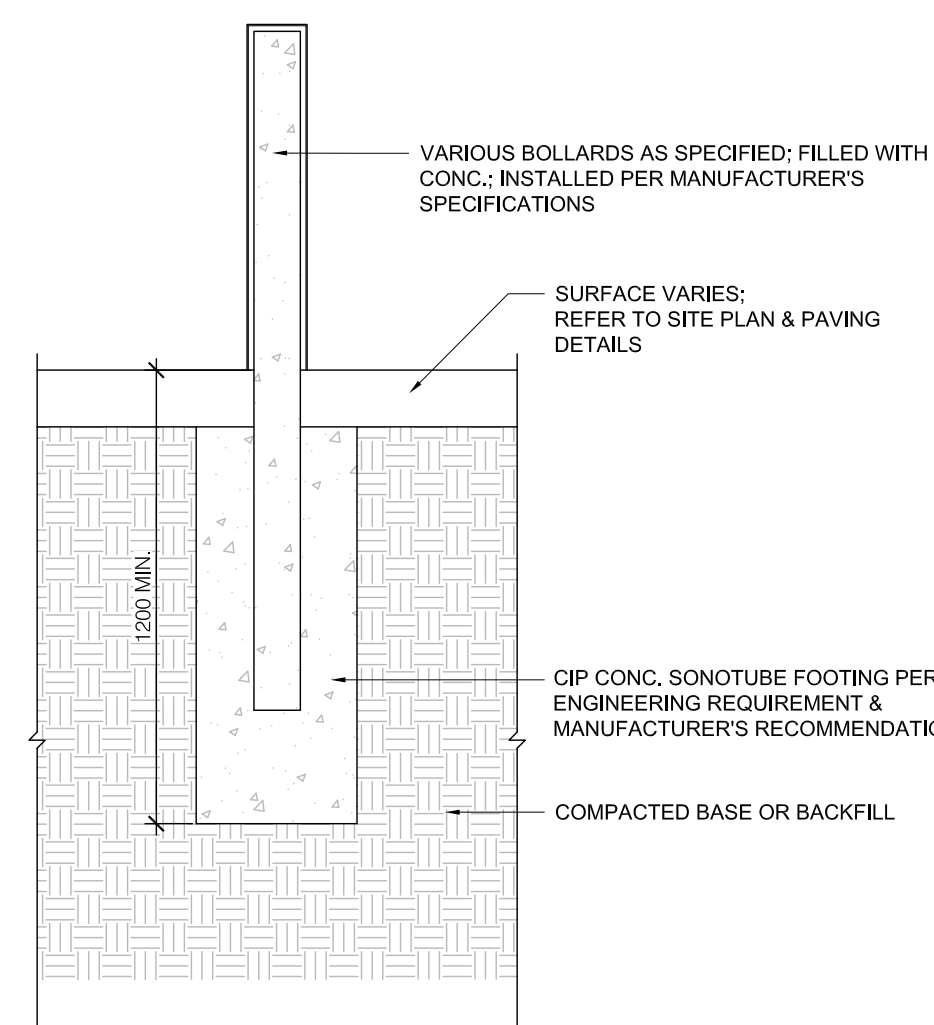
3 TACTILE PLATE
N.T.S.

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.



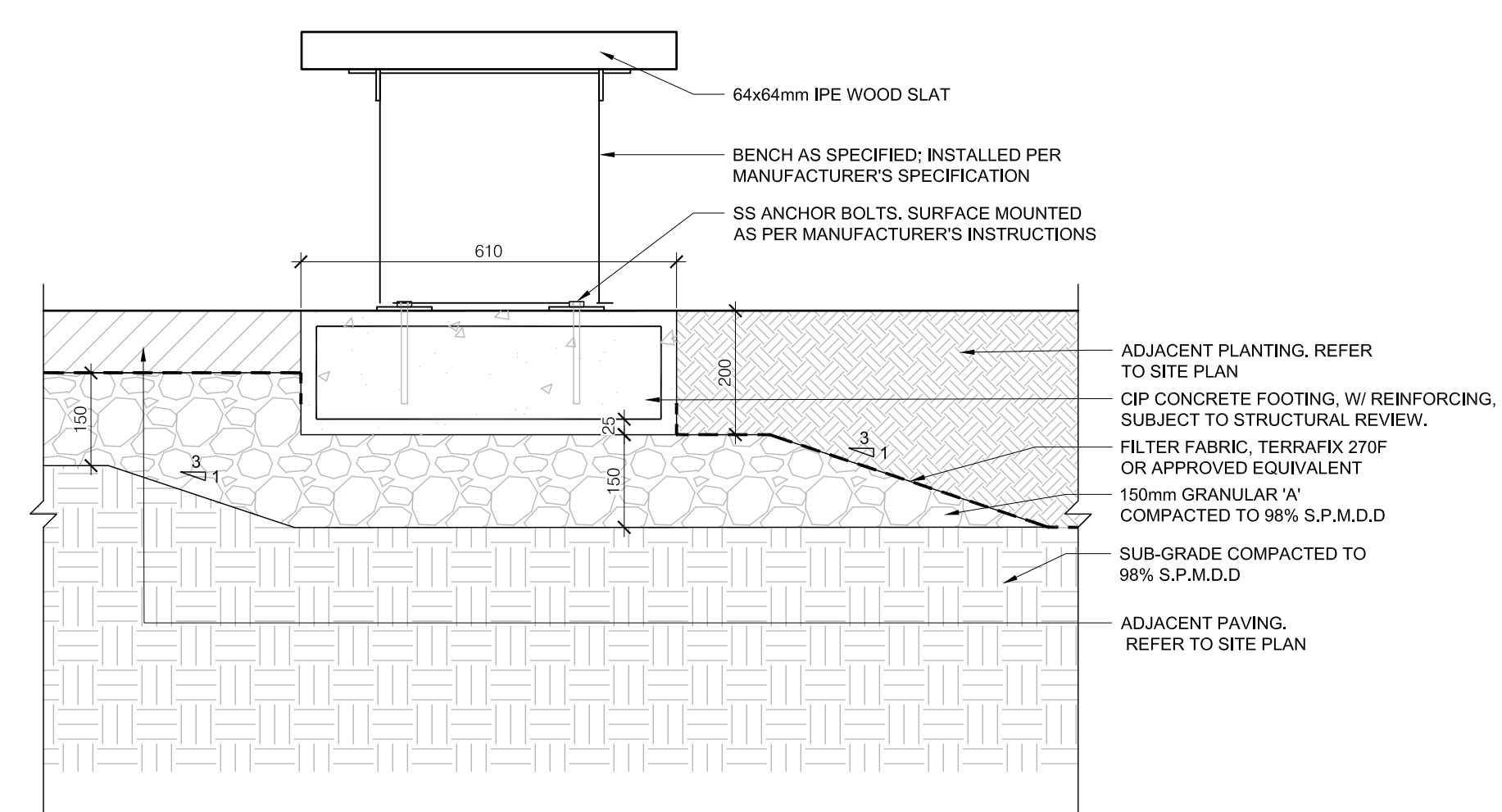
2 BOLLARD
N.T.S.

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



1 BENCH FOUNDATION
1:10

NOTES:
 1. BENCH
 - MANUFACTURER: HAUSER INDUSTRIES
 - MODEL: TIMBER BACKLESS CURVED BENCH
 - SEAT MATERIAL: IPE WOOD
 - FRAMES & SUPPORT: WELDED ALUMINUM
 2. CONTRACTOR TO VERIFY DIMENSIONS ON SITE AND SUBMIT DETAILED SHOP DRAWINGS FOR REVIEW AND APPROVAL.



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 Do not scale this drawing.

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6			
7			
8			

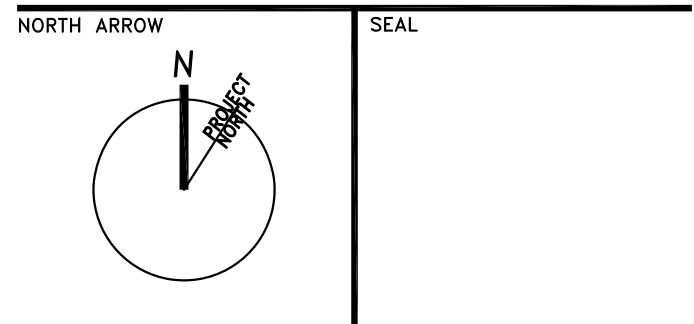
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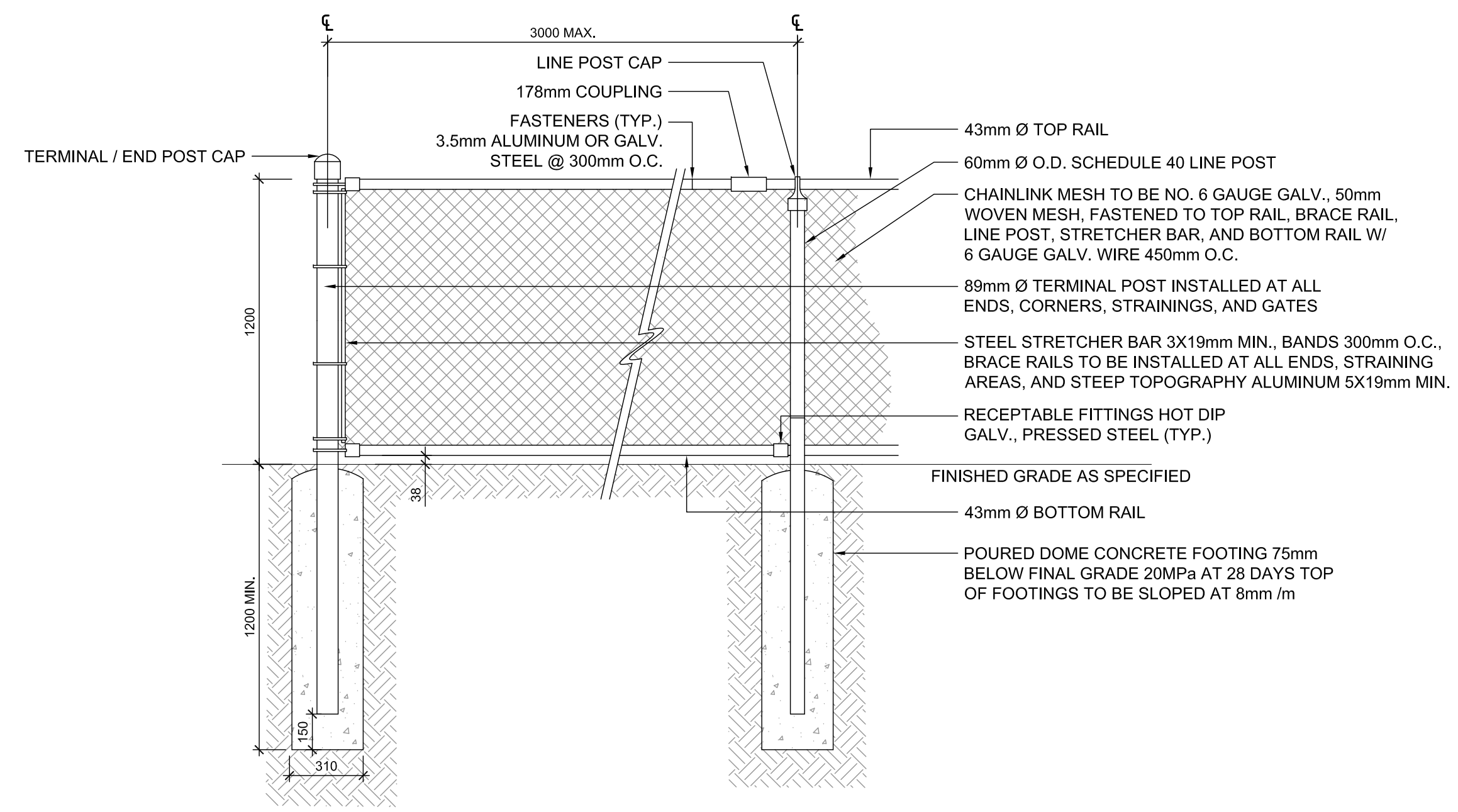
PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**SITE PLAN
 DETAILS 2**
 SCALE
AS NOTED
 DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

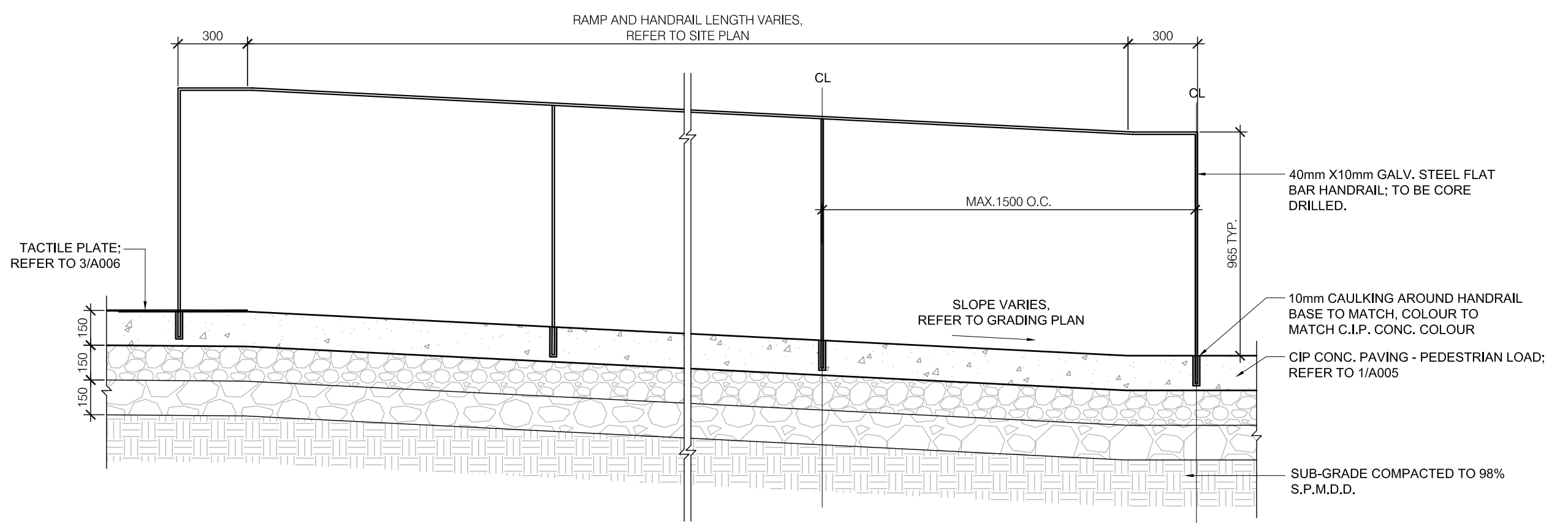
A006

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 FOR 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 38-75mm CLEARANCE MAX.



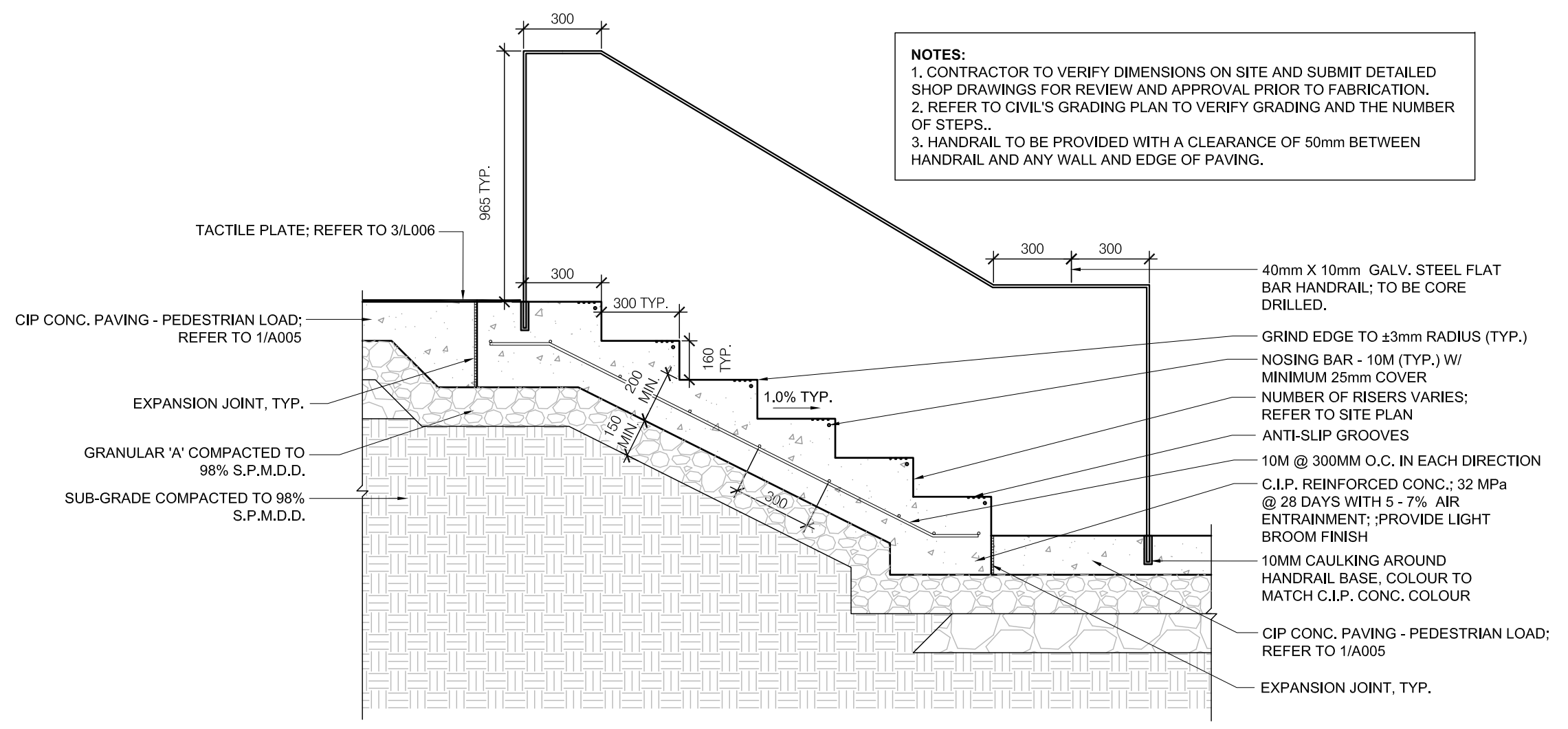
3 CHAIN LINK FENCE
 1:20

NOTES:
 1. CONTRACTOR TO VERIFY DIMENSIONS ON SITE AND SUBMIT DETAILED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 2. HANDRAIL TO BE PROVIDED WITH A CLEARANCE OF 50mm BETWEEN HANDRAIL AND ANY WALL AND EDGE OF PAVING.



2 CIP CONCRETE RAMP & HANDRAIL
 1:10

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 TO VERIFY GRADING AND THE NUMBER OF STEPS.
 3. HANDRAIL TO BE PROVIDED WITH A CLEARANCE OF 50mm BETWEEN HANDRAIL AND ANY WALL AND EDGE OF PAVING.



1 CIP CONCRETE STEPS & HANDRAIL
 1:10

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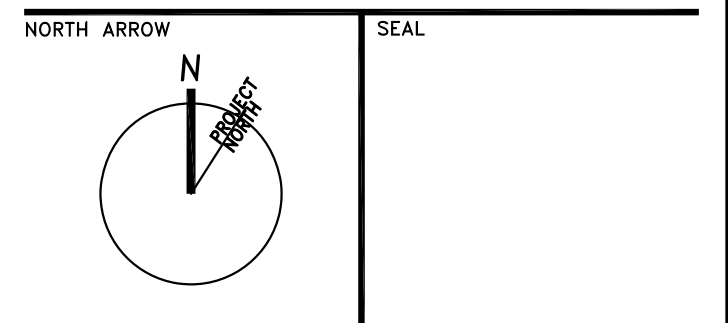
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PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**SITE PLAN
 DETAILS 3**

SCALE:
AS NOTED

DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A007

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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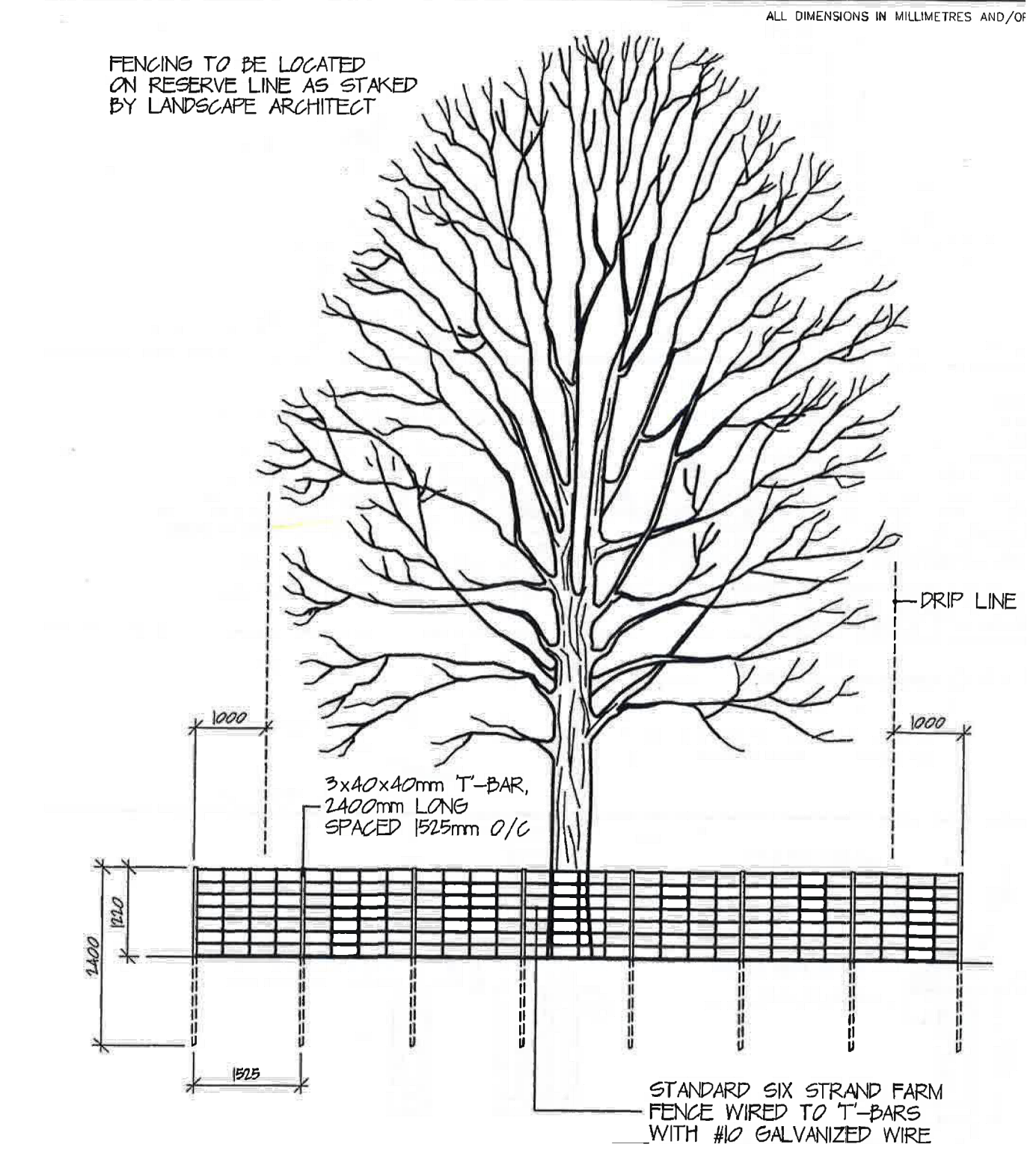
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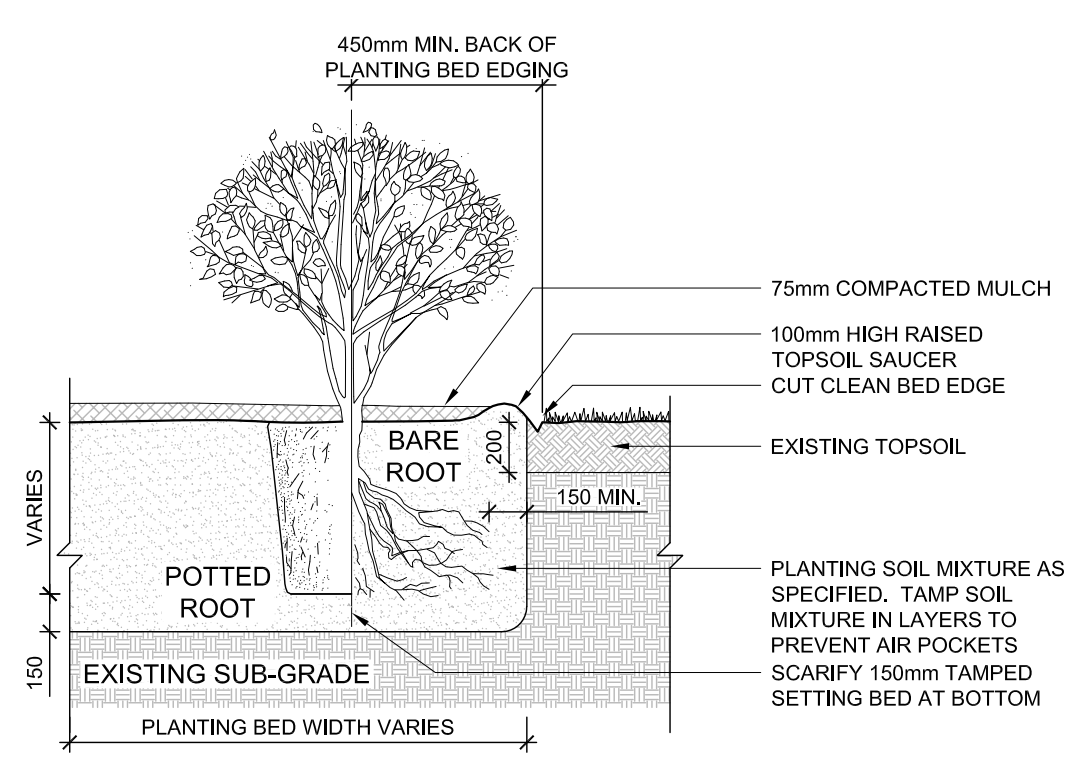
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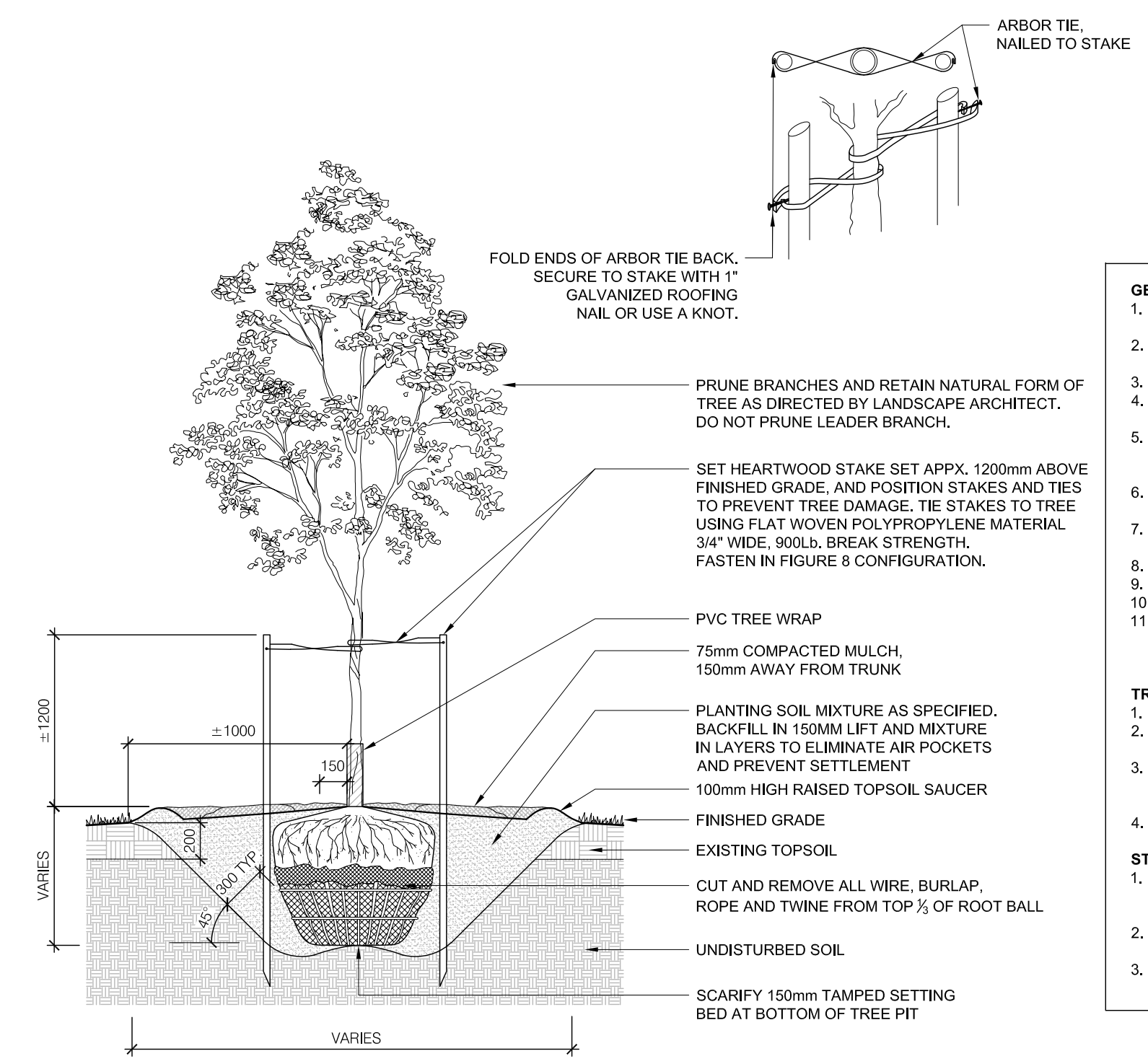


3 TREE PRESERVATION PROTECTION FENCE
N.T.S.



- 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 8kg PER 100m².
 - ENSURE FERTILIZER IS CONTAINED WITHIN SAUCER AND EVENLY RAKED INTO PLANTING SOIL MIXTURE.

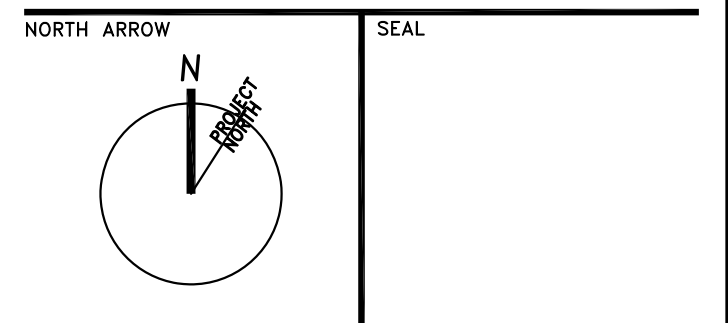
2 SHRUB PLANTING
N.T.S.



- 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-DESICCANT 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 5 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 (219130-C-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.

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e: sayers@apsley.ca



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

DRAWING TITLE
**SITE PLAN
DETAILS 4**

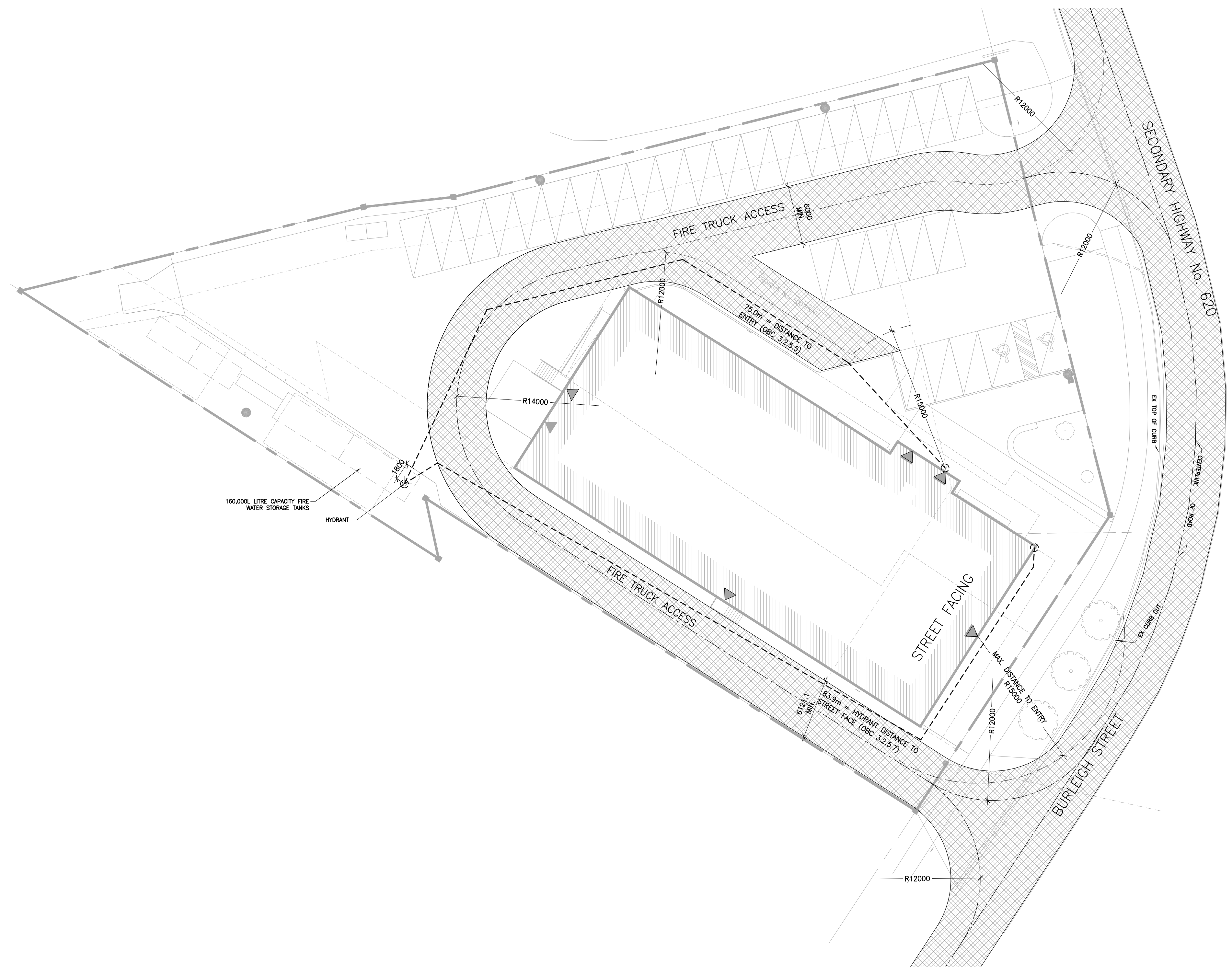
SCALE
AS NOTED

DATE
AUGUST 2021

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: 9-Aug-21 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 (m²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 1.4.1.2.				
	Building Area	0.00	1078.00	1,078.0				
	TOTAL	-	1,078.00	1,078.0				
3.05 GROSS AREA (m²)	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	-	1,274.00	1,274.0				
3.06 MEZZANINE AREA (m²)	DESCRIPTION	EXISTING	NEW	TOTAL 3.2.1.1.				
	TOTAL	-	-	-				
3.07 BUILDING HEIGHT	1	STOREYS ABOVE GRADE	10.00 (m) ABOVE GRADE	[A] 1.4.1.2. & 3.2.1.1.				
	0	STOREYS BELOW GRADE		3.2.1.1.				
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 2 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.(3), 4.1.2.1.B.				
3.17 SEISMIC HAZARD INDEX (I _s , S _i , I _s)	0.187	Seismic Design Not Required for Table 4.1.8.18. Items 6 to 21		4.1.8.18.(1)				
3.18 OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON	OCCUPANT LOAD (PERSONS) 3.1.17.				
	L1 - OPEN SHOPPING AREA (576m ² /3.7)	MERCANTILE - FIRST STOREY	m ² per person	156				
	L1 - BAKE & DELI (106m ² /9.3)	KITCHENS	m ² per person	12				
	L1 - PRODUCE PREP (18m ² /9.3)	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)	NON-COMBUSTIBLE IN LIEU OF RATING?	3.2.2.20-83, 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)	LD. (m)	LH OR HL	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	1.90	-	Combustible Permitted	Combustible Permitted	
	NORTH-WEST C	6.0	18.50	1.70	-	Combustible Permitted	Combustible Permitted	
	NORTH-EAST A	396.0	19.60	4.90	1.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-EAST A	179.0	15.60	2.26	1.00	Combustible Permitted	Combustible Permitted	
	SOUTH-EAST B	35.0	15.60	1.80	1.00	Combustible Permitted	Combustible Permitted	
	SOUTH-WEST A	246.0	7.50	4.90	2.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-WEST B	96.0	7.50	4.30	2.00	Combustible Permitted	Noncombustible Req'd	
	SOUTH-WEST C	28.0	7.50	2.90	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) MERCAN	174	3.7.4.8 (2.A)	1M/HF	1 Universal WC			
	L2 - GROUP D STAFF	8	3.7.4.7 (2)	1 WC	2 WC			
3.24 ENERGY EFFICIENCY	COMPLIANCE PATH:	PRESCRIPTIVE - ANSI/ASHRAE/IES 90.1						
	CLIMATIC ZONE:	6 - (LAKEFIELD)						
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							

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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PROJECT TITLE
 NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE
 OBC MATRIX

SCALE
 AS SHOWN

DATE
 AUGUST 2021

PROJECT NUMBER
 2102

DRAWING NUMBER
 A010

FIRE WATER STORAGE TANK SIZE
(OBC 3.2.5.7 APPENDIX A = $Q=KxVxS$):

17 = K (WATER SUPPLY COEFFICIENT)
 7,375 m³ = V (TOTAL BUILDING VOLUME)
 1.3 = 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 (LAKEFIELD)

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

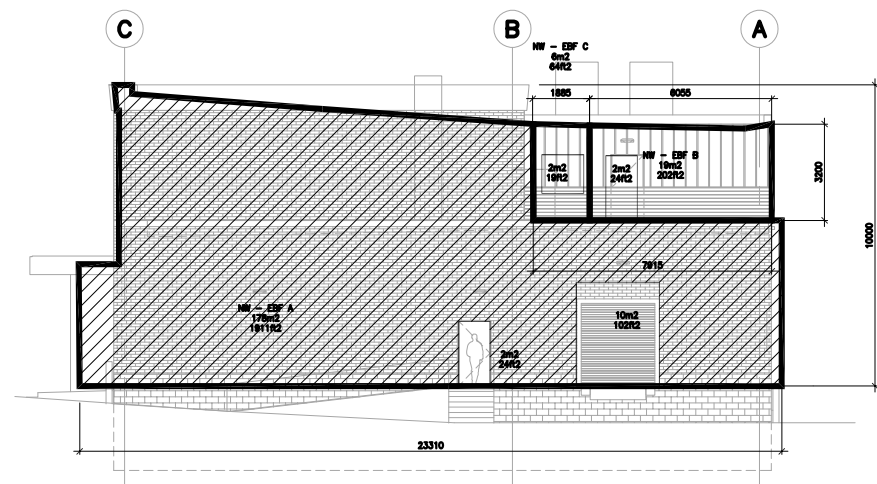
BUILDING ENVELOP REQUIREMENTS (CLIMATE ZONE 6, (A,B)(I-P))

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



NORTH-WEST FACE A

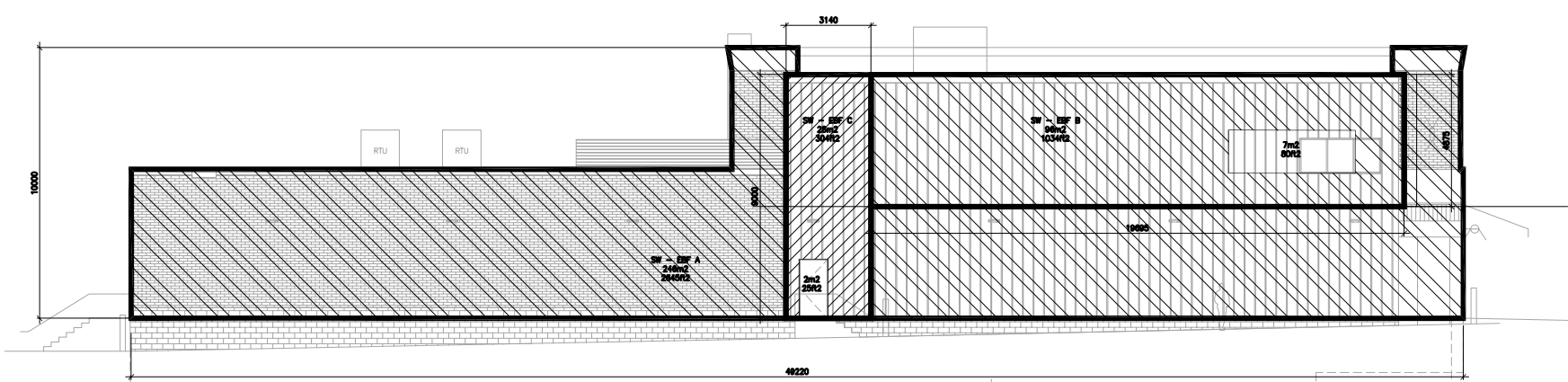
178m² = EXPOSED BUILDING FACE
 18.5m = LIMITING DISTANCE
 2.3 = L/H
 55% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 6.7% = ACTUAL UNPROTECT. OPENING
 1HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)

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

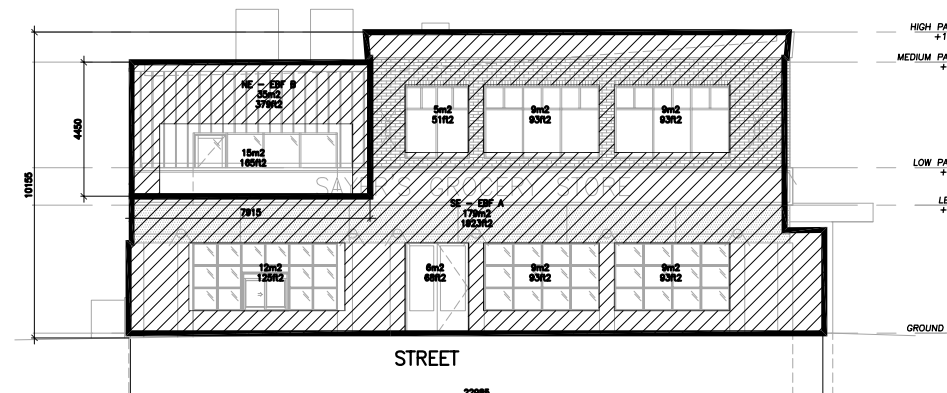
246m² = EXPOSED BUILDING FACE
 7.5m = LIMITING DISTANCE
 4.9 = L/H
 12% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 0% = ACTUAL UNPROTECT. OPENING
 2HR = REQ. FRR (H)
 NON/C = CONSTRUCTION TYPE
 NON = CLADDING TYPE

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)
 7.3% = 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)

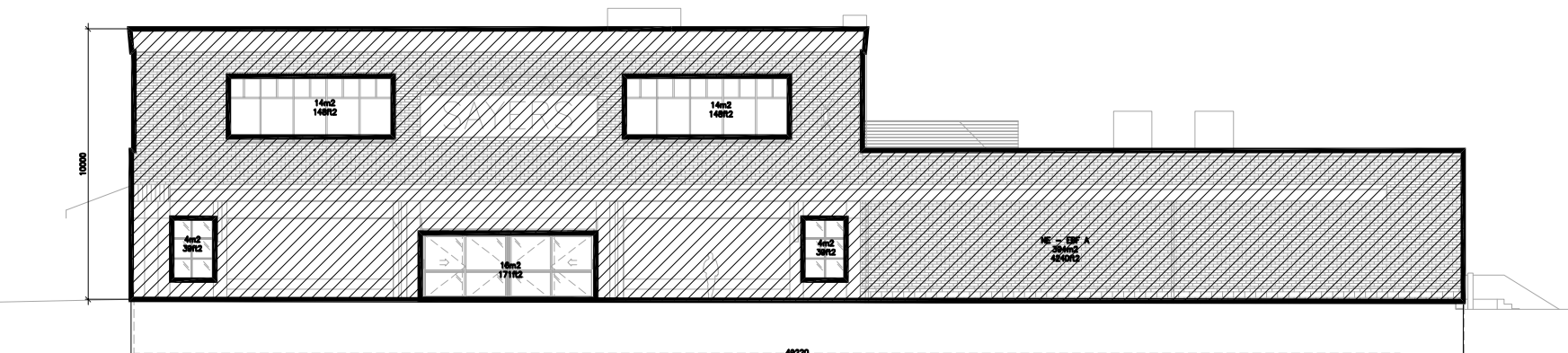


SOUTH-EAST FACE A

179m² = EXPOSED BUILDING FACE
 15.6m = LIMITING DISTANCE
 2.26 = L/H
 100% = MAX. UNPROTECT. OPENING (*3.2.3.10)
 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

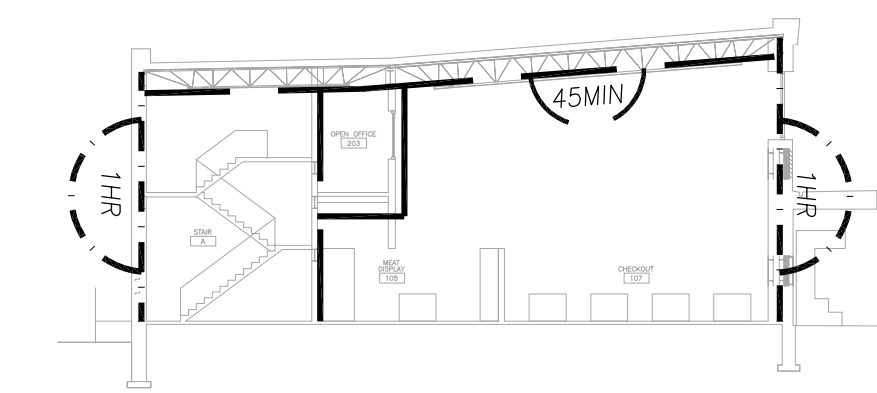
35m² = EXPOSED BUILDING FACE
 15.6m = LIMITING DISTANCE
 1.8 = L/H
 100% = MAX. UNPROTECT. OPENING (3.2.3.1.C)
 43% = ACTUAL UNPROTECT. OPENING
 0HR = REQ. FRR (3.2.3.7)
 NON/C = REQ. CONSTRUCTION TYPE (3.2.3.7)
 NON/C = REQ. CLADDING TYPE (3.2.3.7)



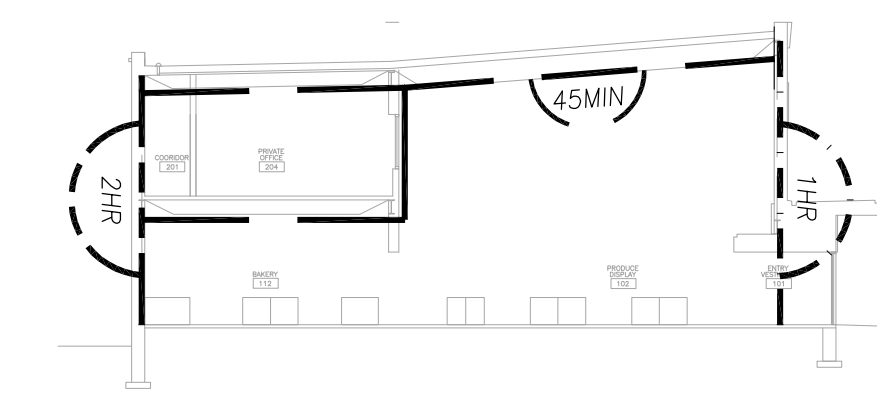
NORTH-EAST FACE A

396m² = EXPOSED BUILDING FACE
 19.6m = LIMITING DISTANCE
 4.9 = L/H
 14% = MAX. UNPROTECT. OPENING (*3.2.3.10)
 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)

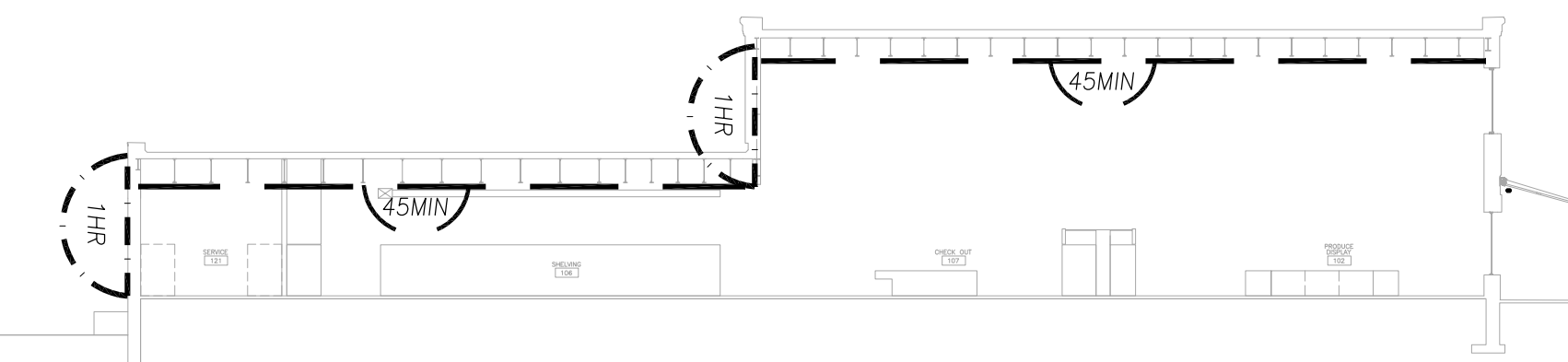
9 SPATIAL SEPERATION/EXPOSURE ANALYSIS
1:250



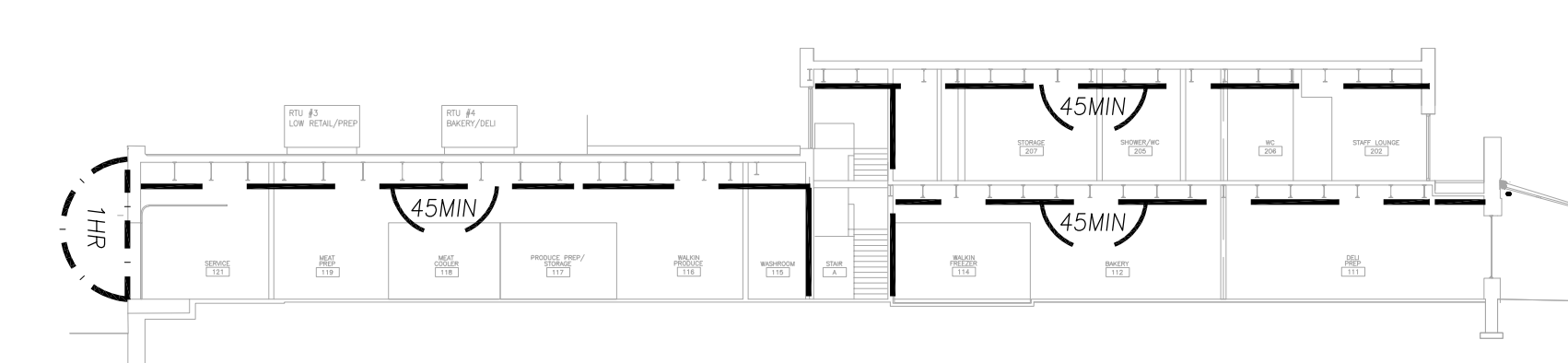
8 BUILDING SECTION - LIFE SAFETY
1:250



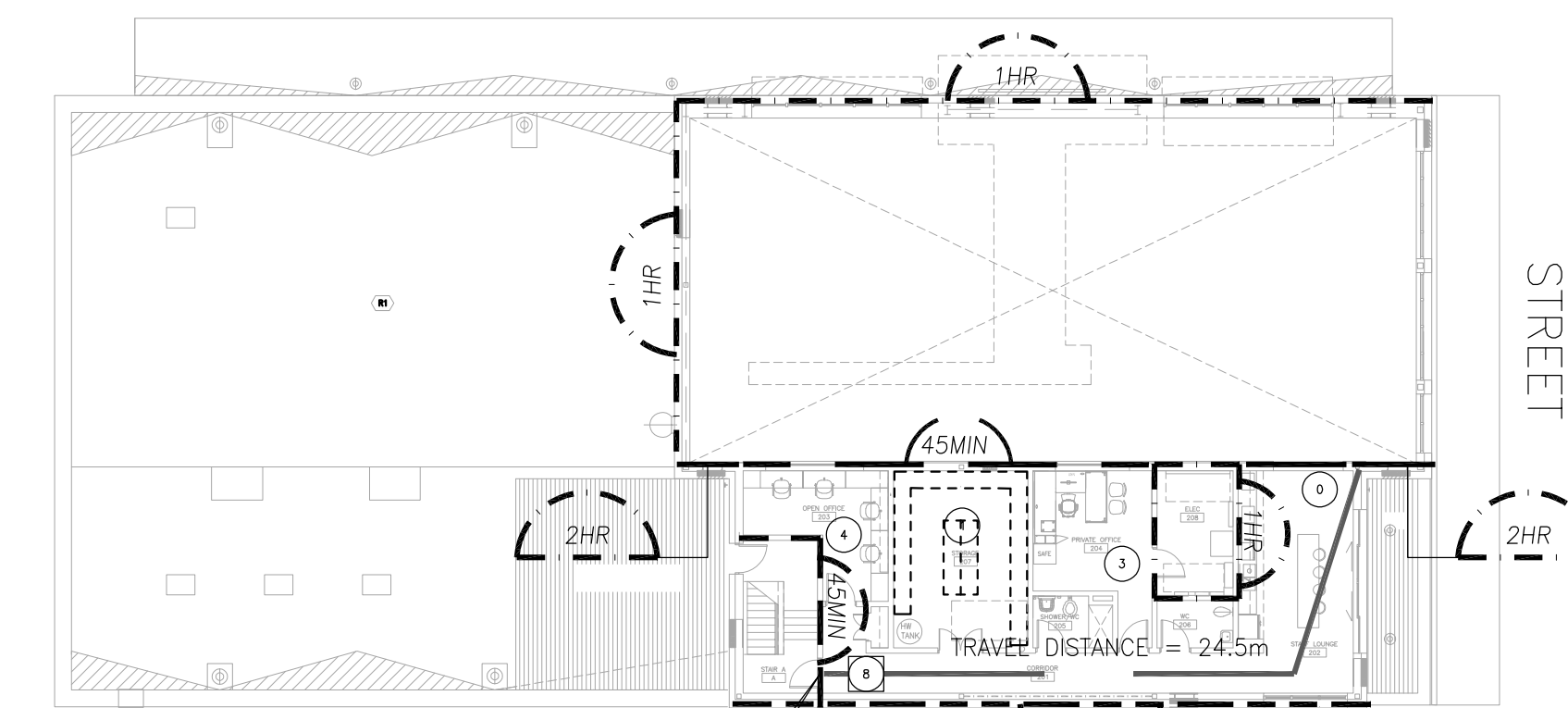
7 BUILDING SECTION - LIFE SAFETY
1:250



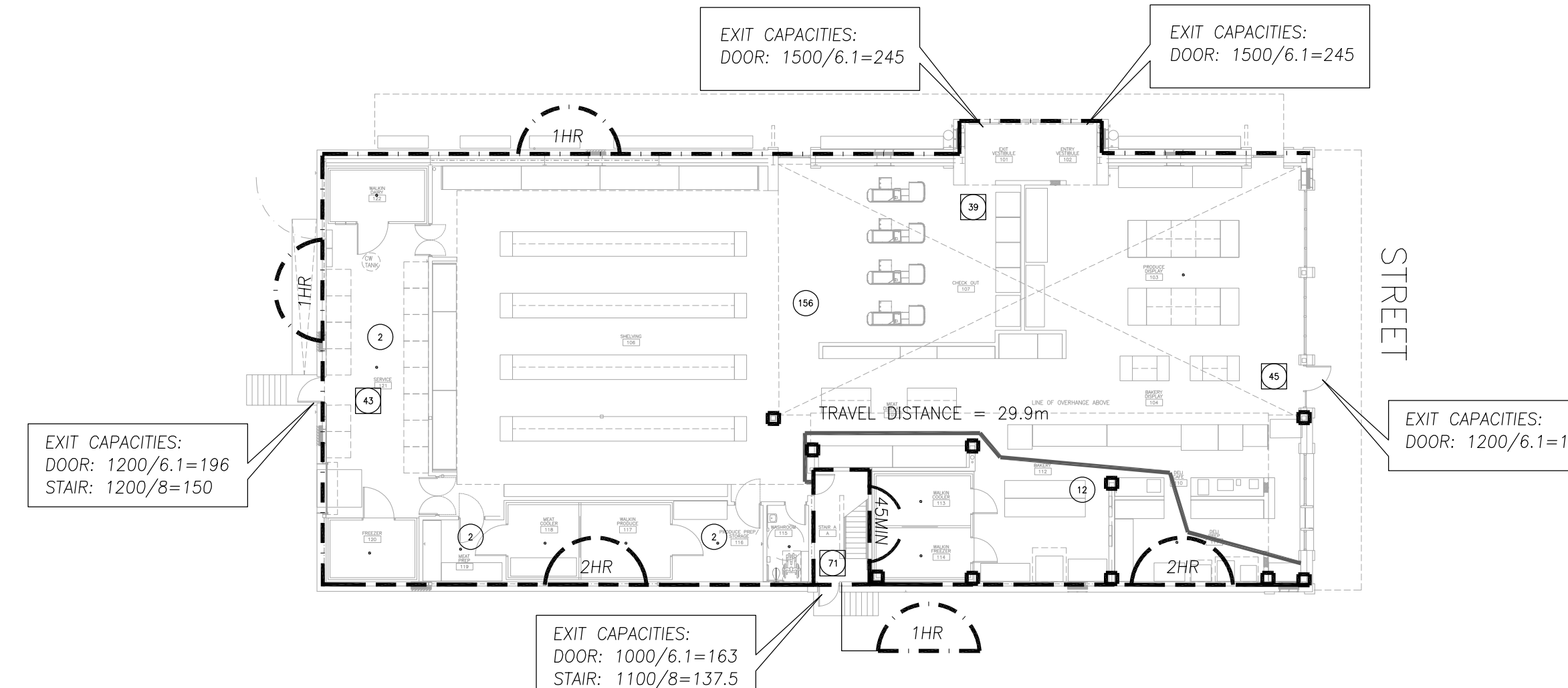
6 BUILDING SECTION - LIFE SAFETY
1:250



5 BUILDING SECTION - LIFE SAFETY
1:250



2 LEVEL 2 - LIFE SAFETY PLAN
1:250



1 GROUND LEVEL - LIFE SAFETY PLAN
1:250

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REVISIONS AND ISSUES

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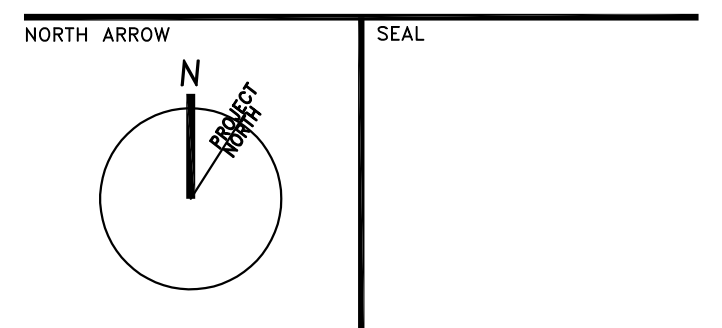
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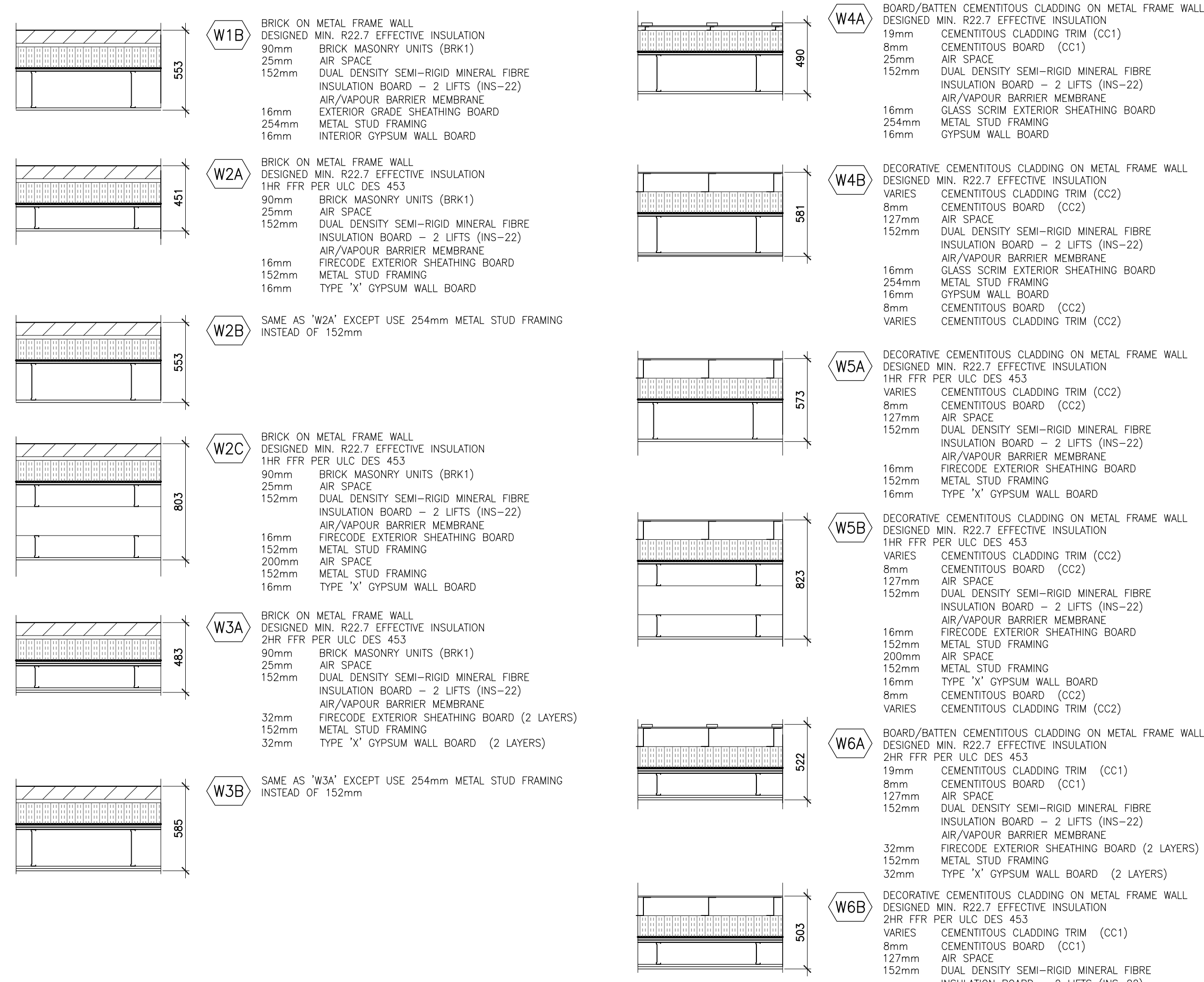
PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE
LIFE SAFETY & CODE

SCALE
AS SHOWN
 DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

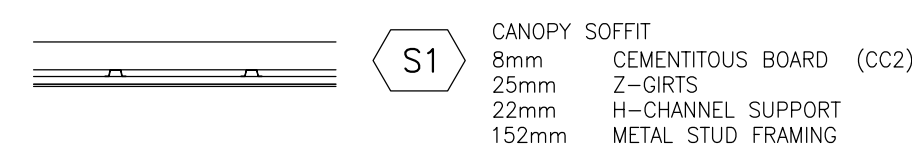
A011



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

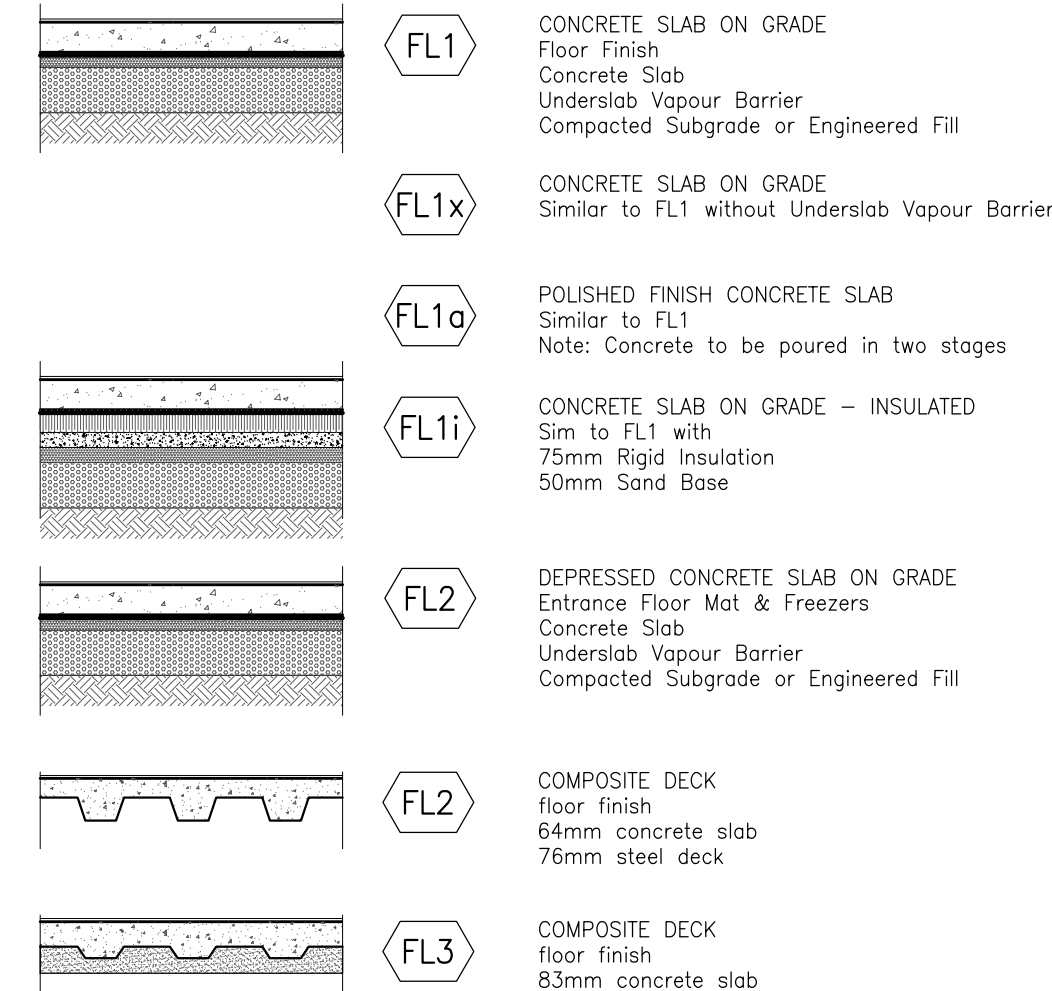


GENERAL NOTES - SOFFIT

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

SOFFIT TYPES SCHEDULE

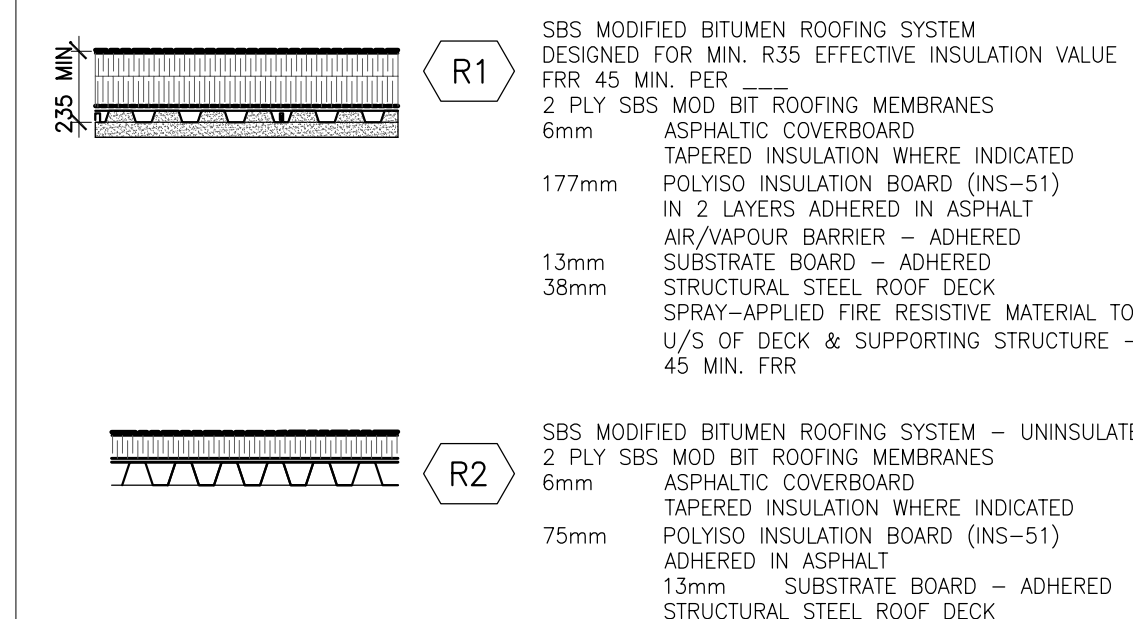
Refer to Structural for Slab thicknesses and reinforcement



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.

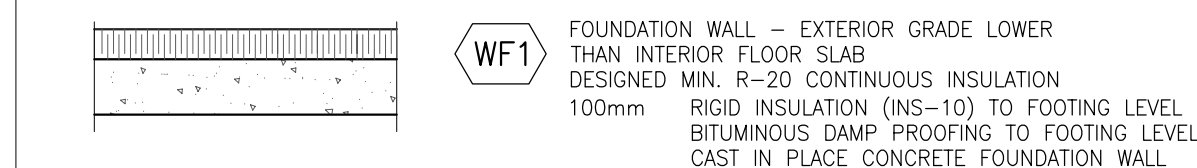
FLOOR TYPES SCHEDULE



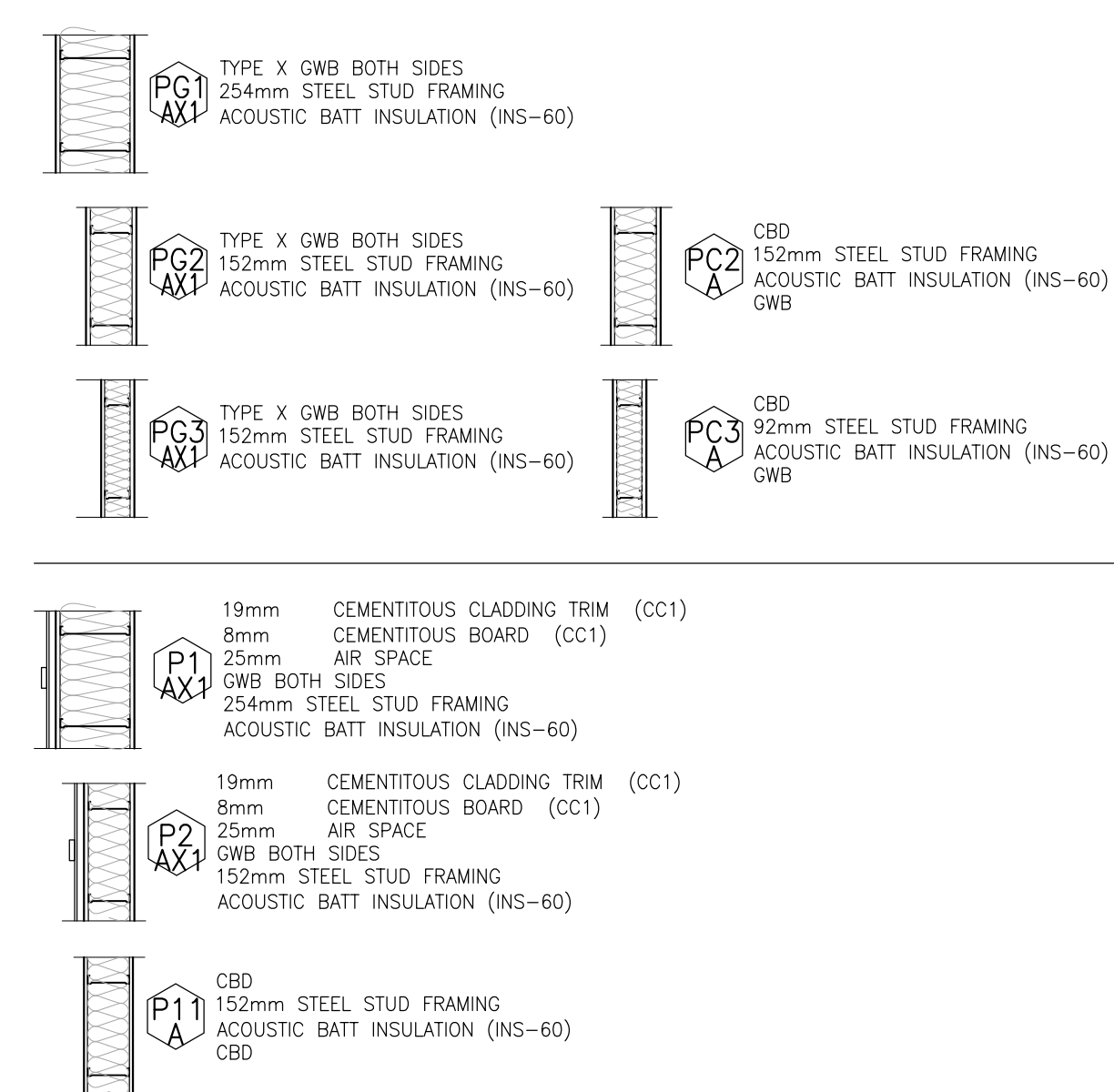
GENERAL NOTES - ROOF

- SEE ROOF PLANS FOR LOCATIONS OF SLOPED INSULATION CRICKETS

ROOF TYPES SCHEDULE



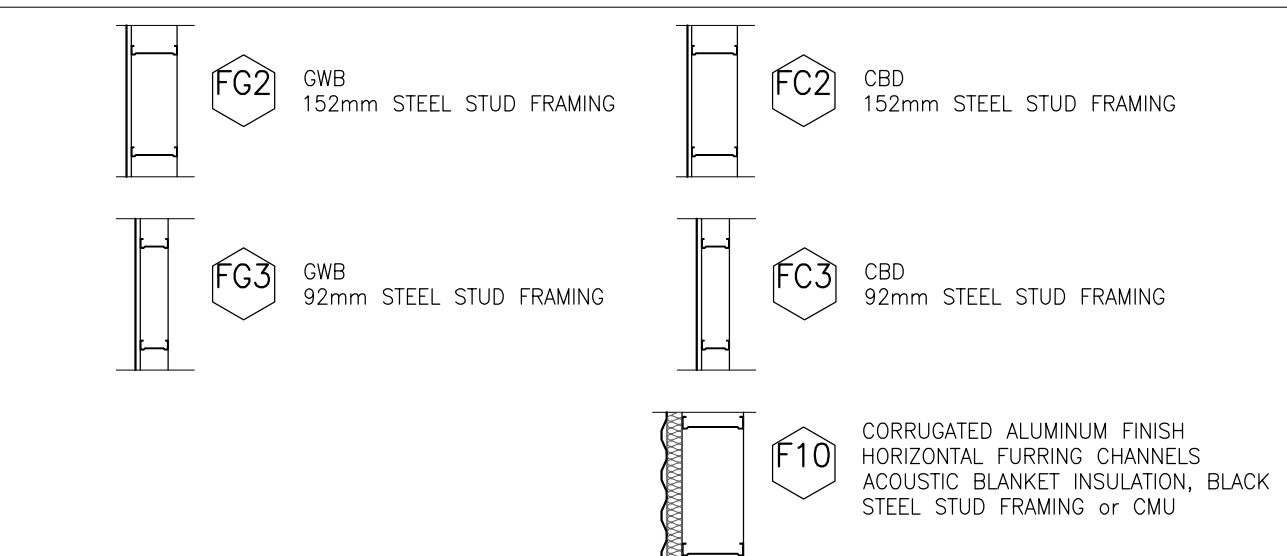
FOUNDATION & BASE WALL TYPES SCHEDULE



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 (25 GAUGE).
- HEAVY GAUGE AT HIGHER DENSITY PANELS: (GWB-AR, GWB-IR, GWB-TB, CBD-TB): 0.8376 MM (20 GAUGE).

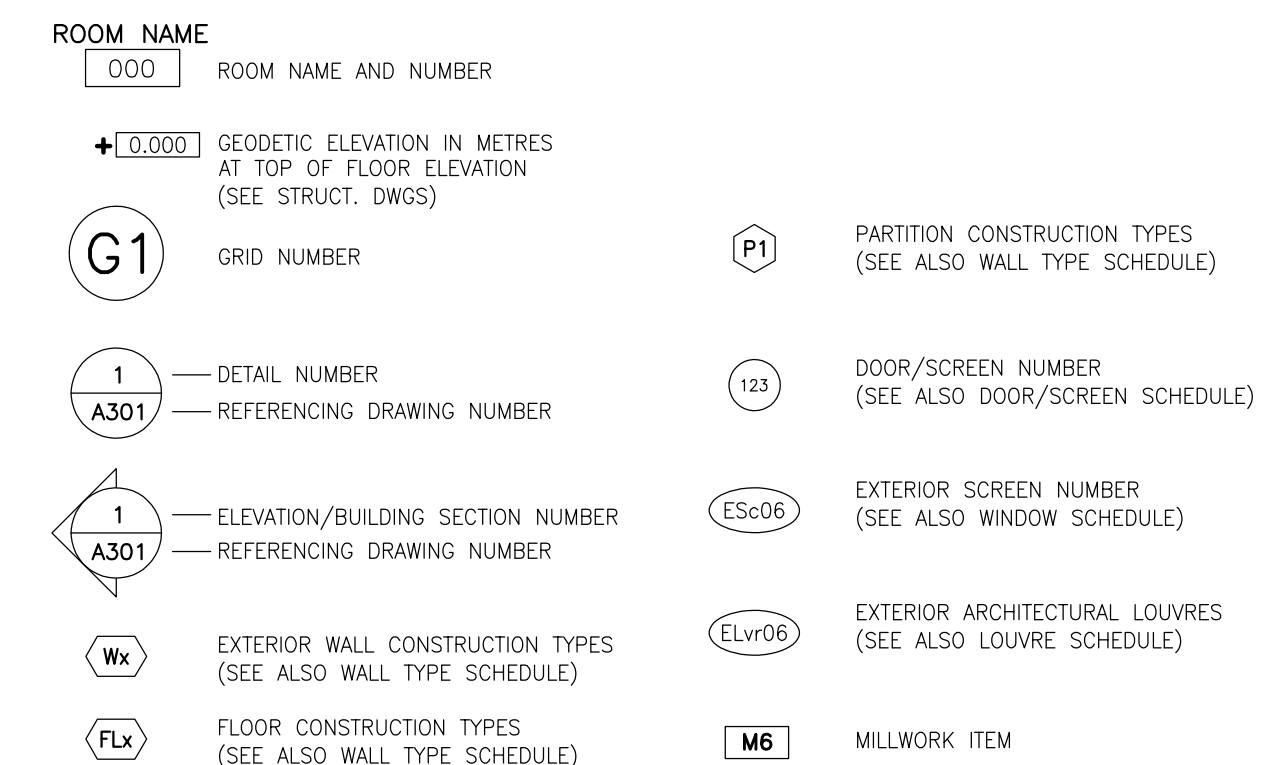
INTERIOR PARTITION TYPES SCHEDULE



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 (25 GAUGE).
- HEAVY GAUGE AT HIGHER DENSITY PANELS: (GWB-AR, GWB-IR, GWB-TB, CBD-TB): 0.8376 MM (20 GAUGE).

INTERIOR FURRING TYPES SCHEDULE



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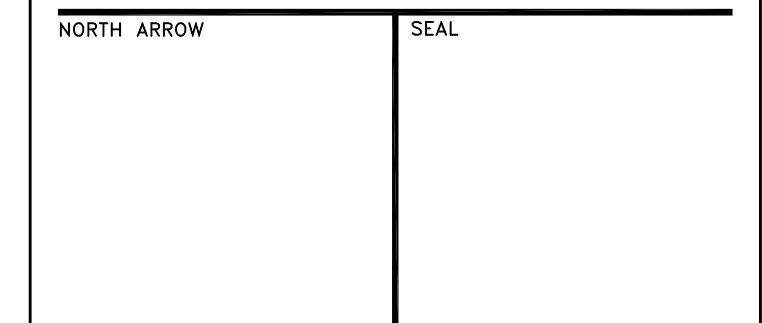
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
ASSEMBLIES & FLOOR TYPES
SCALE
NTS
DATE
AUGUST 2021

PROJECT NUMBER
2102
DRAWING NUMBER

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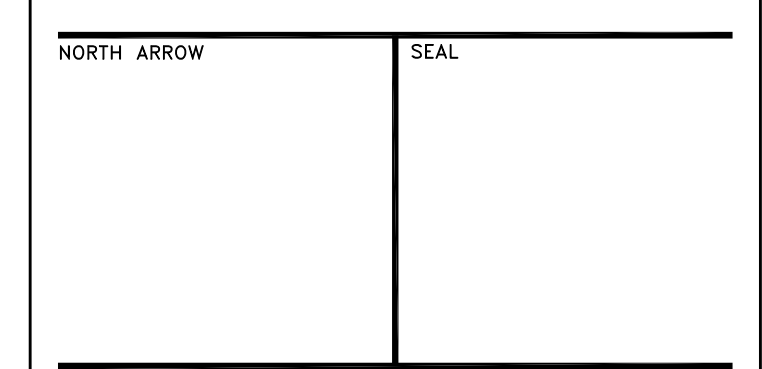
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**GROUND LEVEL
FLOOR PLAN**

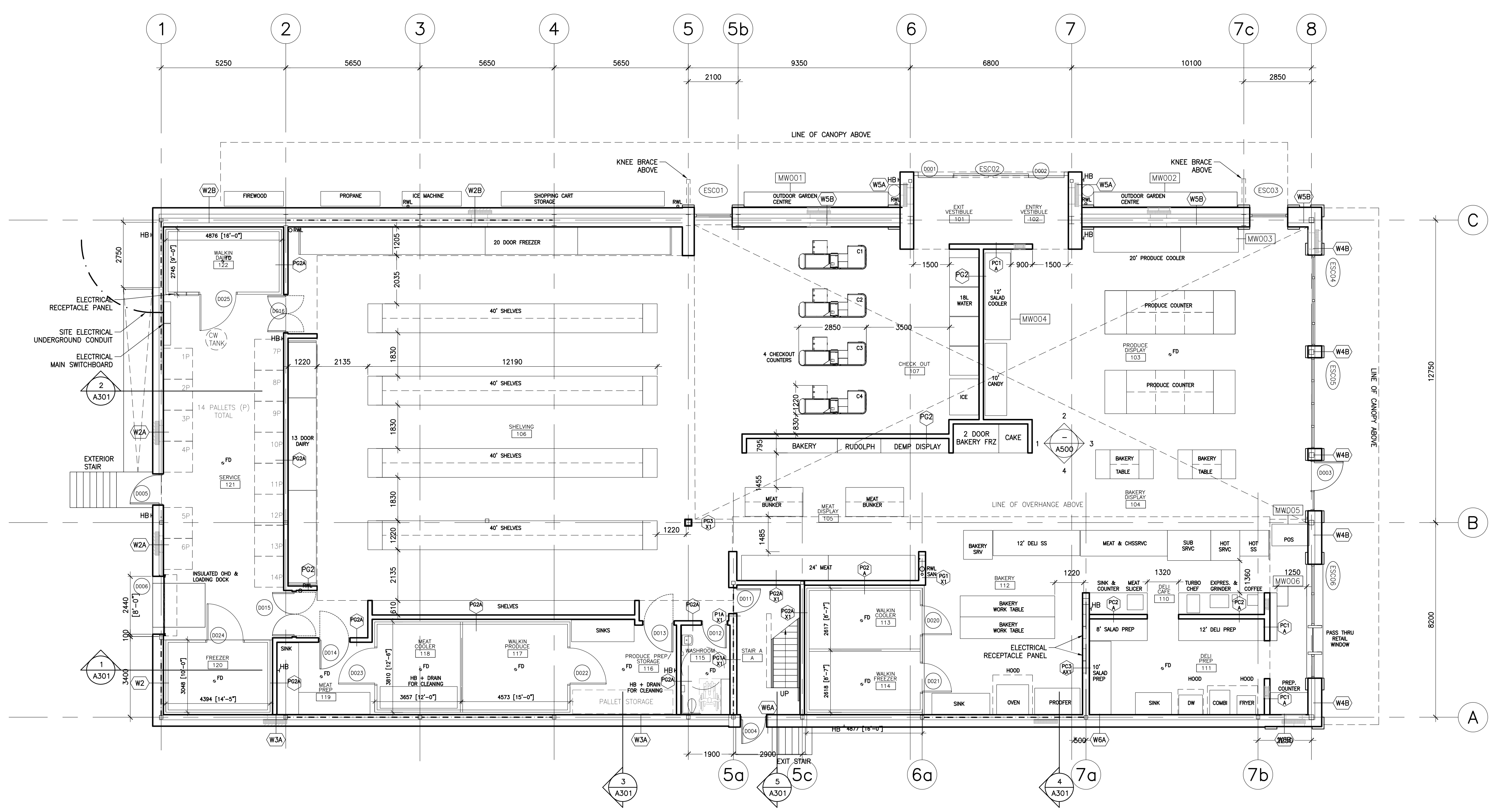
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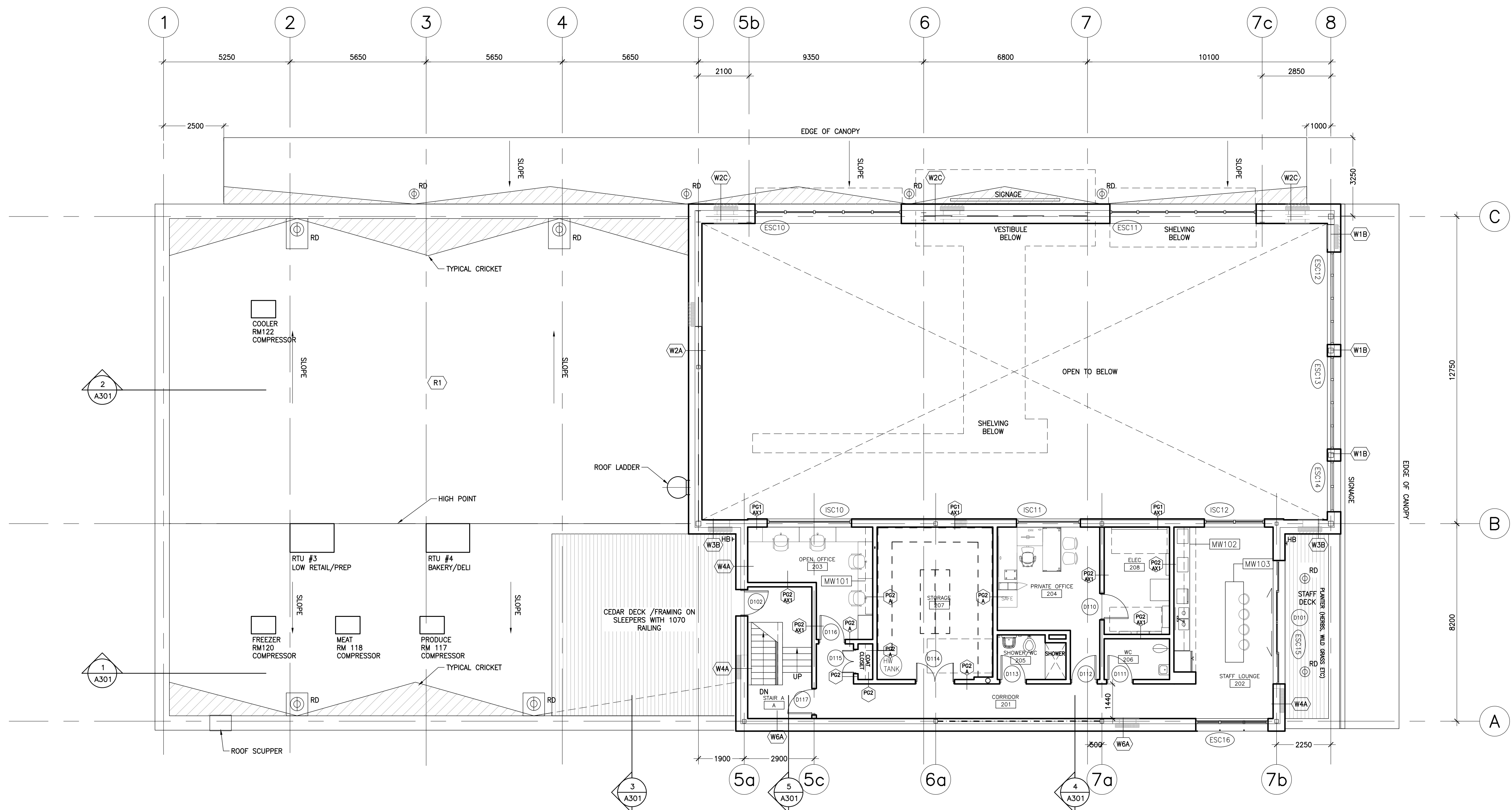
DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A100





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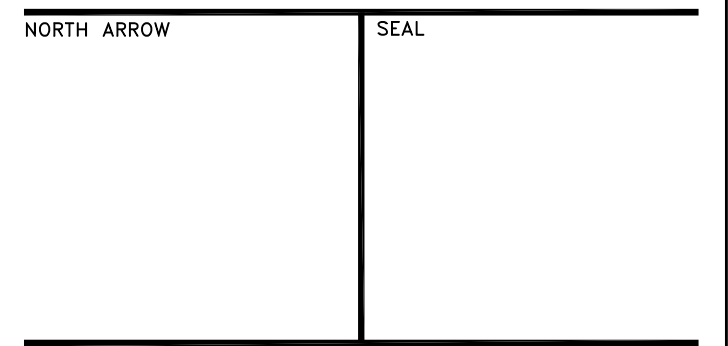
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 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**LEVEL 2
 FLOOR PLAN**

SCALE
1:100

DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A101

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Do not scale this drawing.

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			
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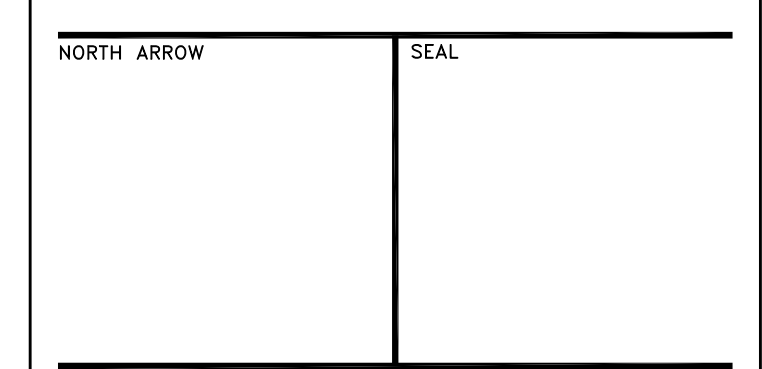
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e: sayers@apsley.ca



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

DRAWING TITLE
ROOF PLAN

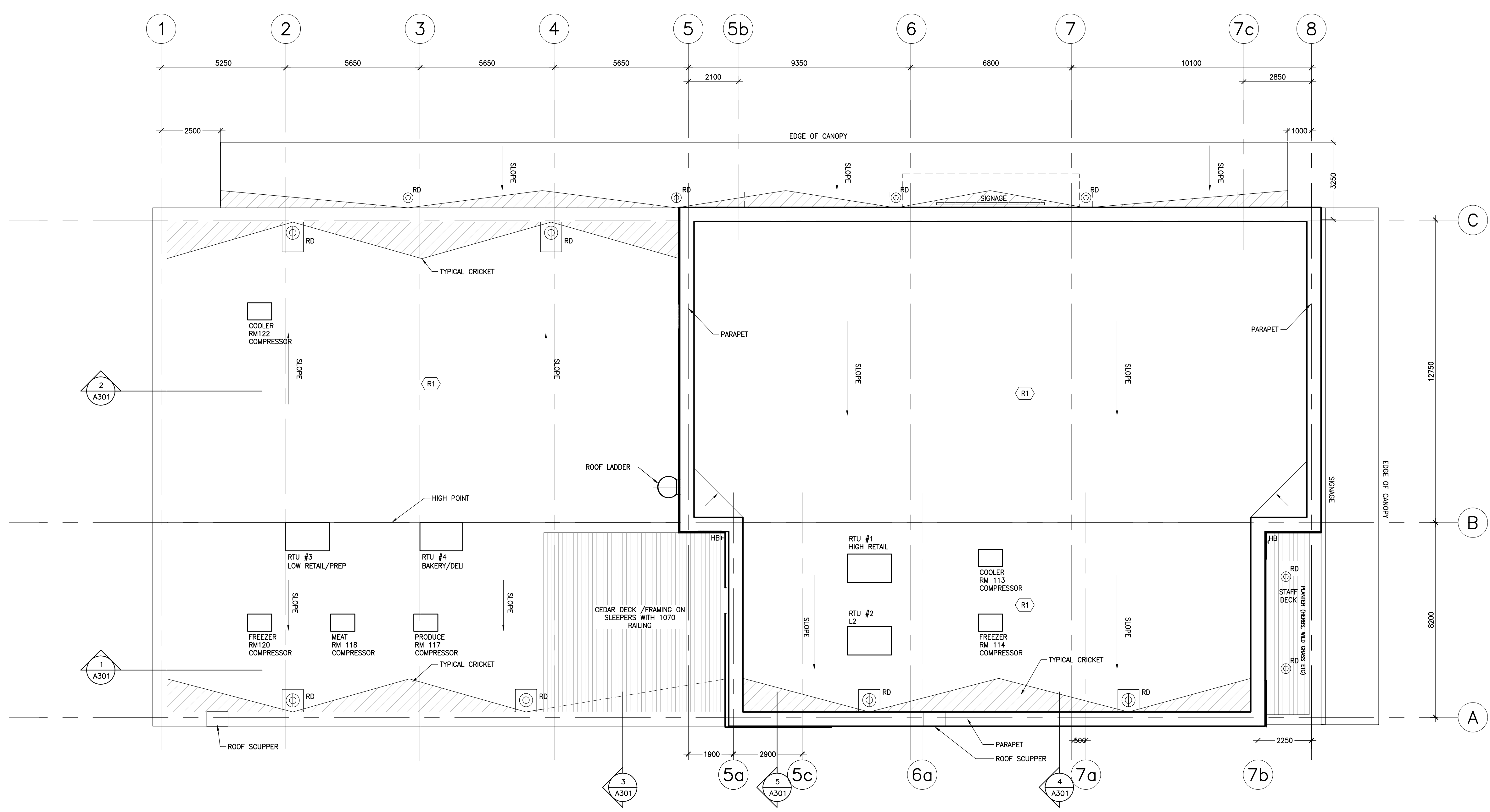
SCALE
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DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A102



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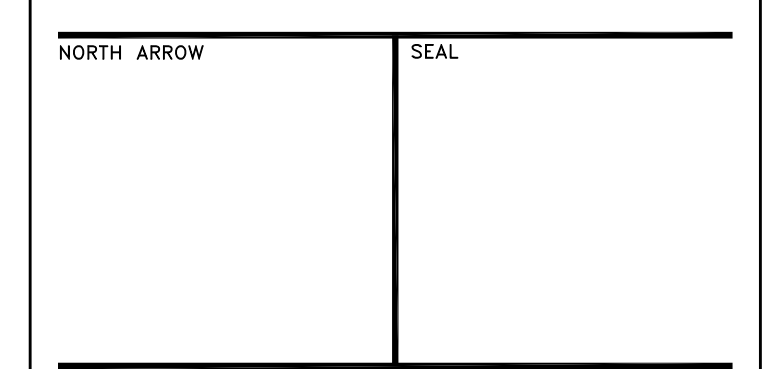
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**LEVEL 2
REFLECTED CEILING PLAN**

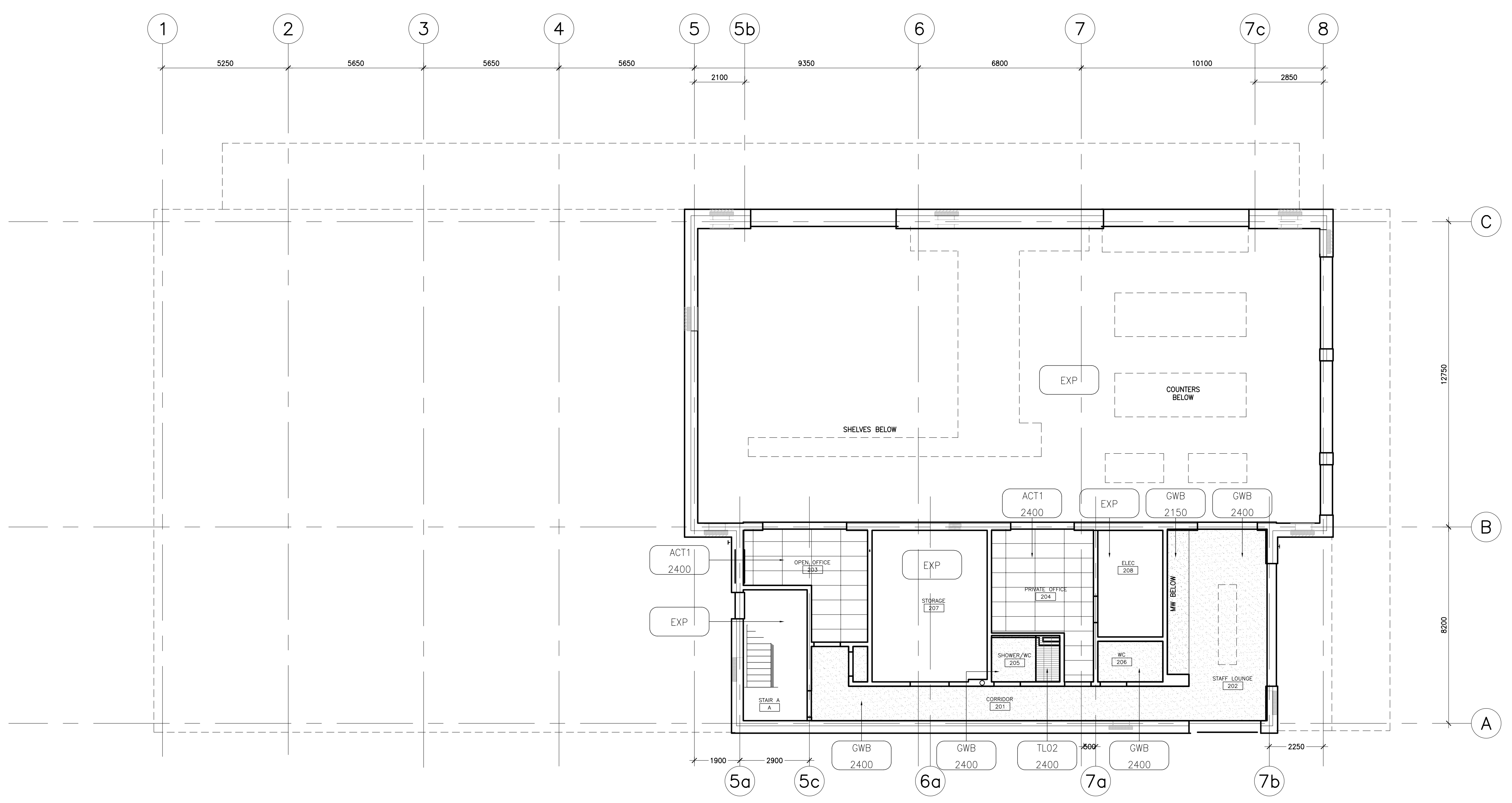
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DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A151



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REVISIONS AND ISSUES			
REV	DESCRIPTION	DATE	BY
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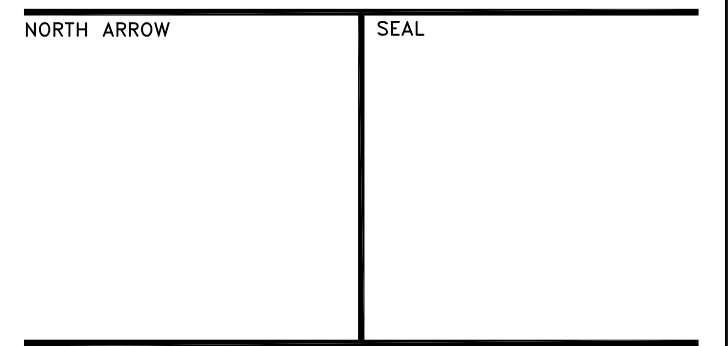
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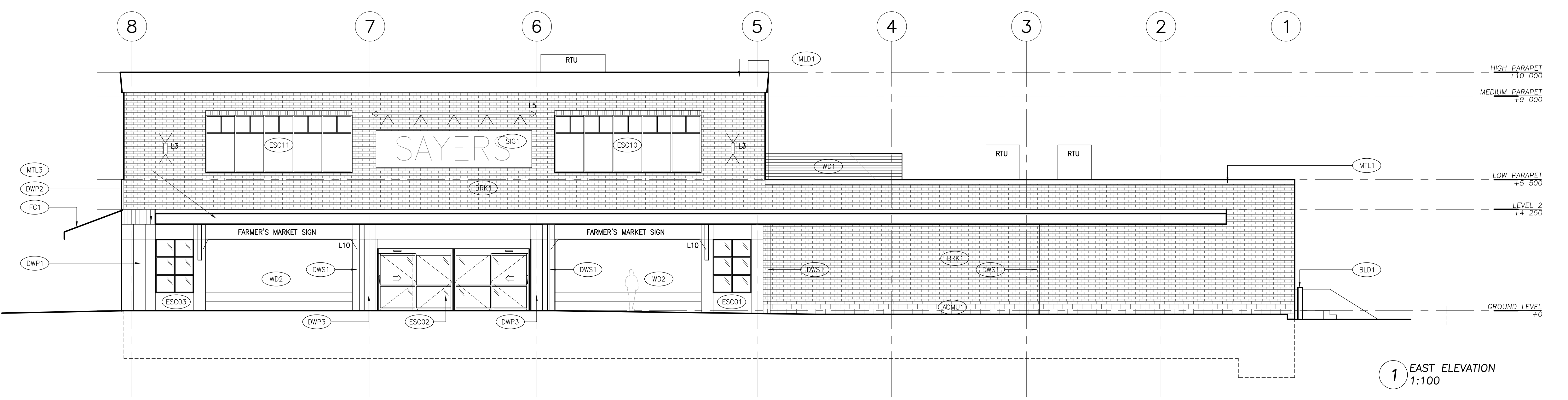
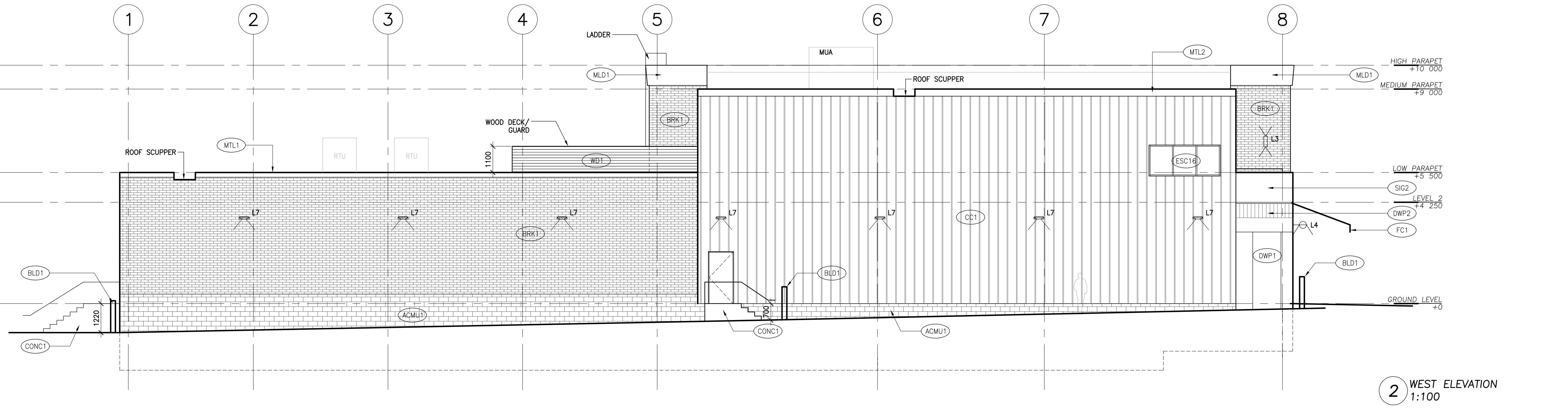
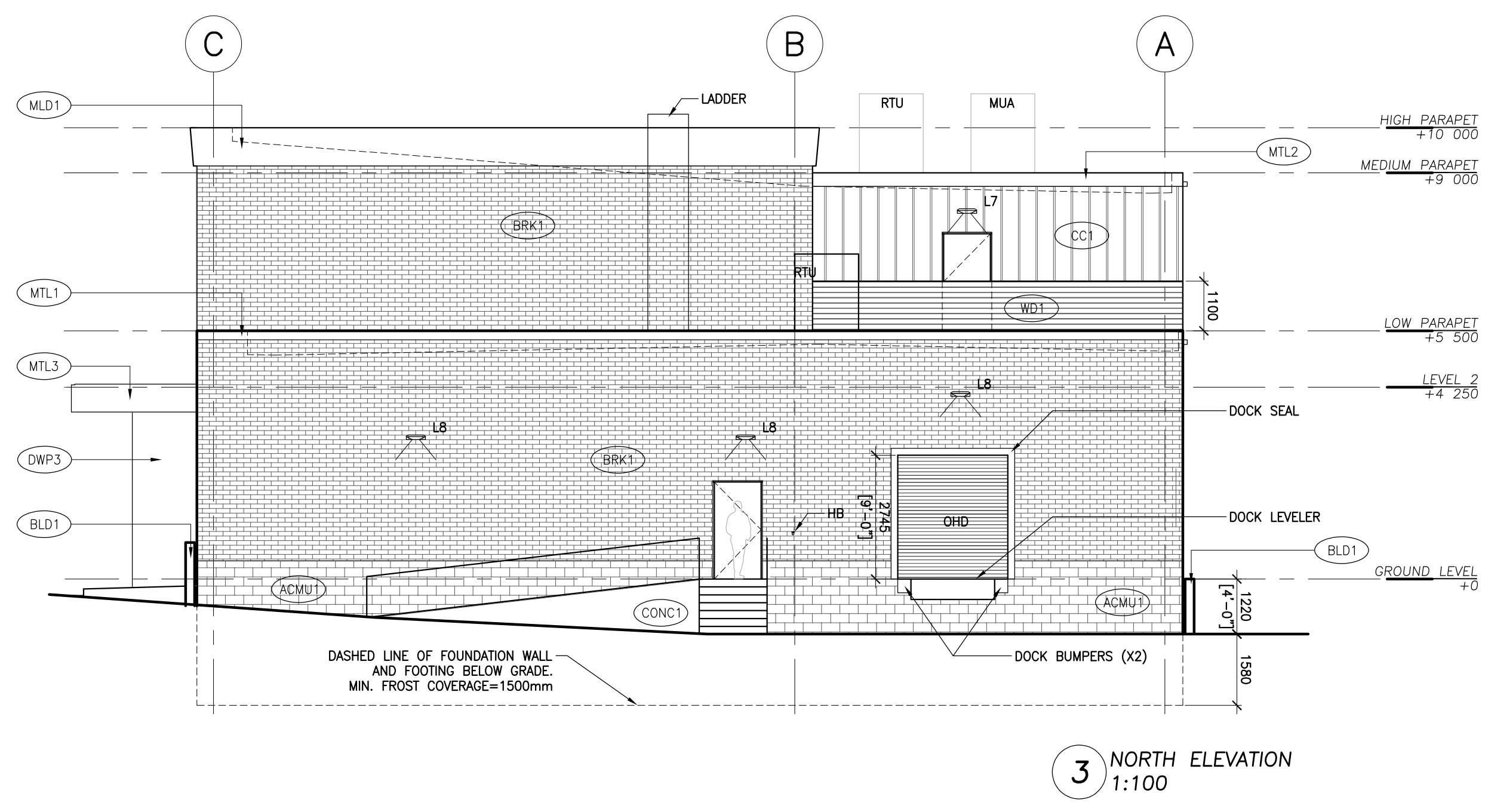
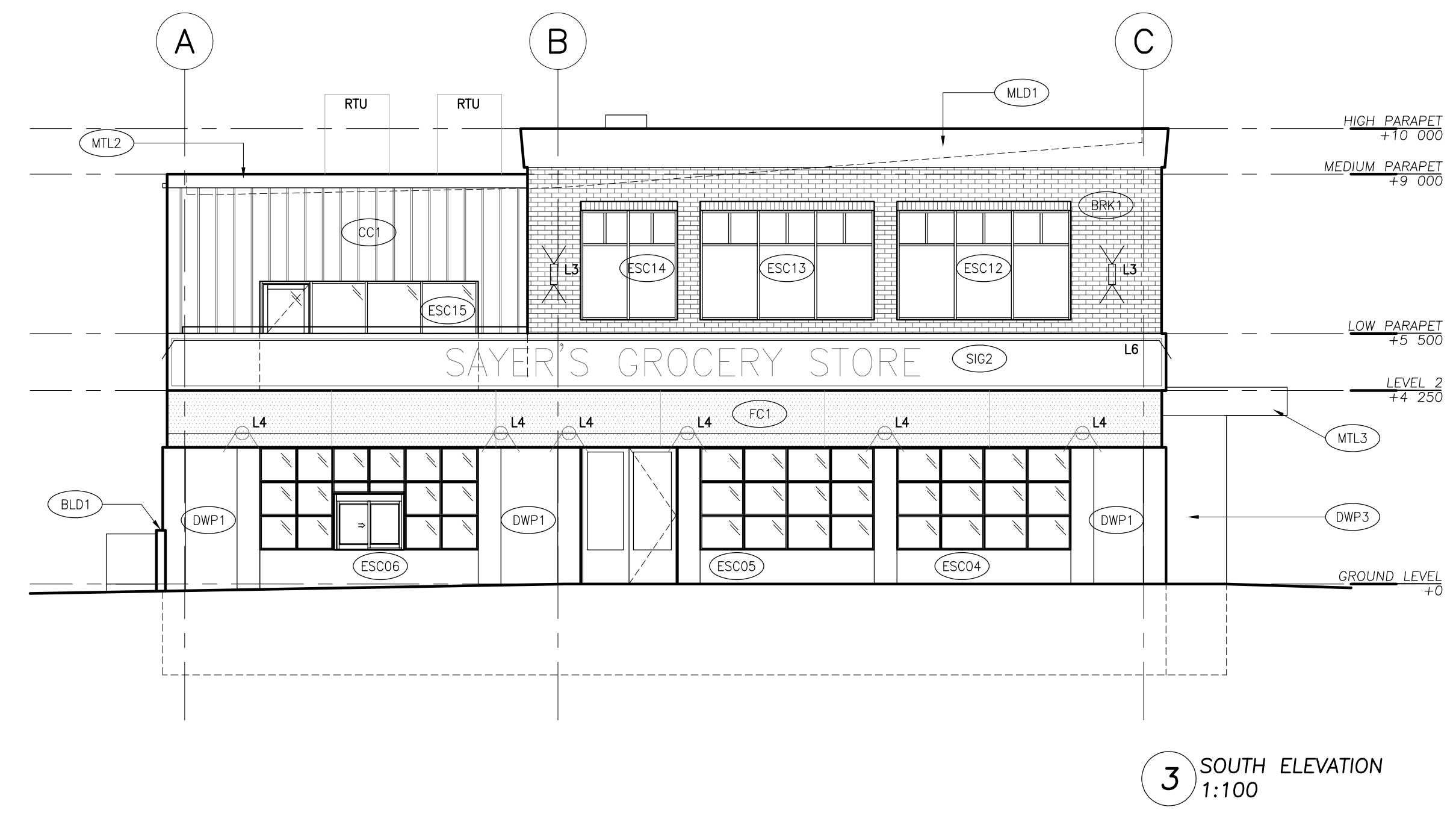
PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
BUILDING ELEVATIONS

SCALE
1:100
 DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

A200



EXTERIOR LIGHTING SCHEDULE

Code	Description	Direction
L1	PARKING LOT LIGHT POST	DOWN
L2	PARKETTE ACCENT LIGHT	DOWN
L3	FACADE UP/DOWN LIGHT	UP/DOWN
L4	FACADE SCÖNCE	DOWN
L5	FACADE EAST SIGN	DOWN
L6	FACADE SOUTH SIGN	DOWN
L7	FACADE CC1 SERVICE	DOWN
L8	FACADE SERVICE	DOWN
L9	EAST CANOPY LINEAR	DOWN
L10	MARKET STALL ACCENT	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
(DWP3)	DECORATIVE WALL PANELING - PAINTED
(MLD1)	EXTERIOR MOLDING - PAINTED PLASTER
(CONC1)	CIP CONCRETE
(MTL1)	PREFINISHED METAL FLASHING
(MTL2)	PREFINISHED METAL FLASHING
(MTL3)	PAINTED STEEL
(WD1)	EXTERIOR WOOD FENCE STAINED
(WD2)	EXTERIOR WOOD STAINED
(BLD1)	METAL BOLLARD PAINTED
(FC1)	FABRIC CANOPY
(ESC1)	EAST SIGNAGE PANEL
(SIG1)	SOUTH SIGANNE PANEL
(DWS1)	PTD METAL DOWNSPOUT

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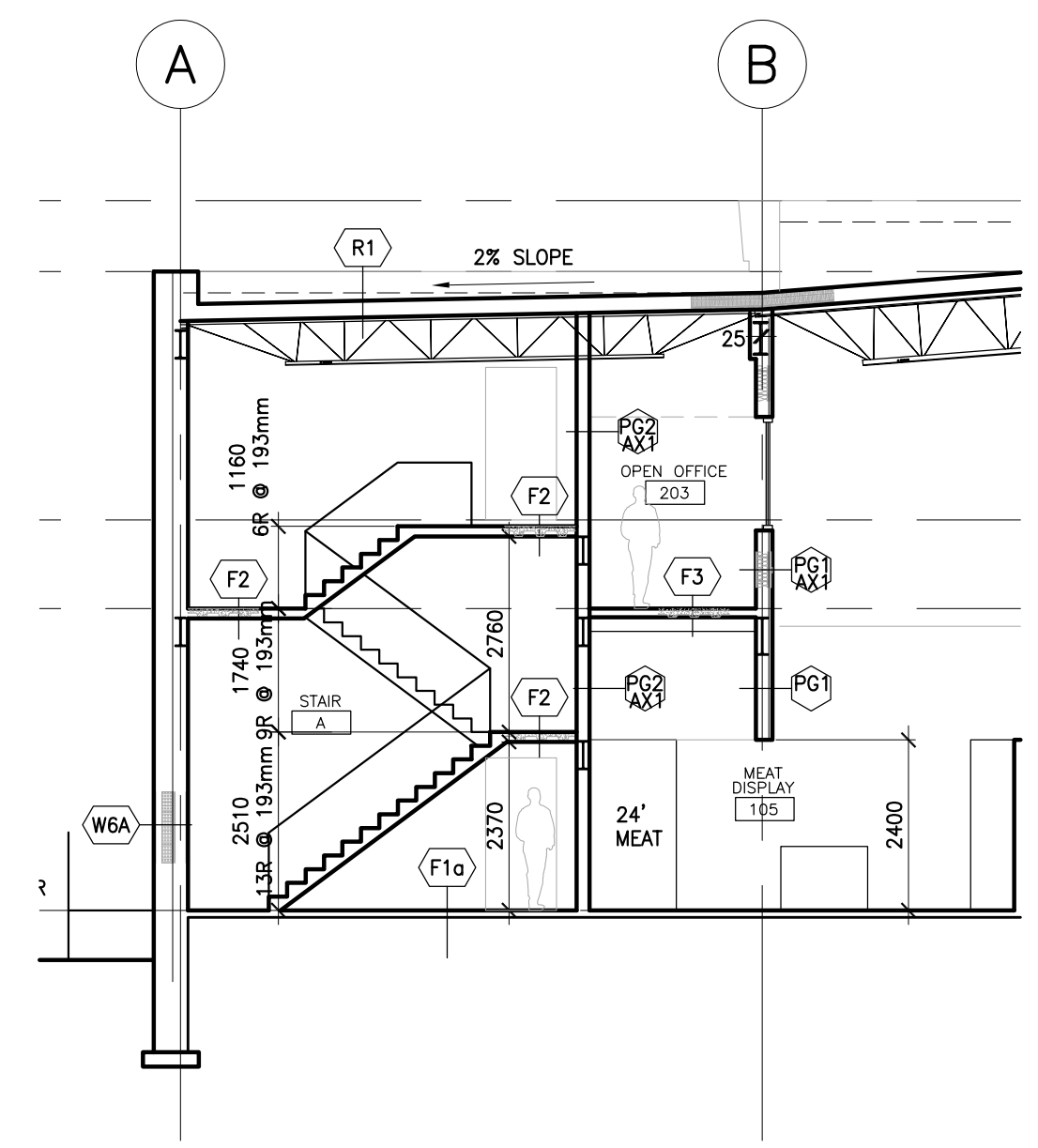
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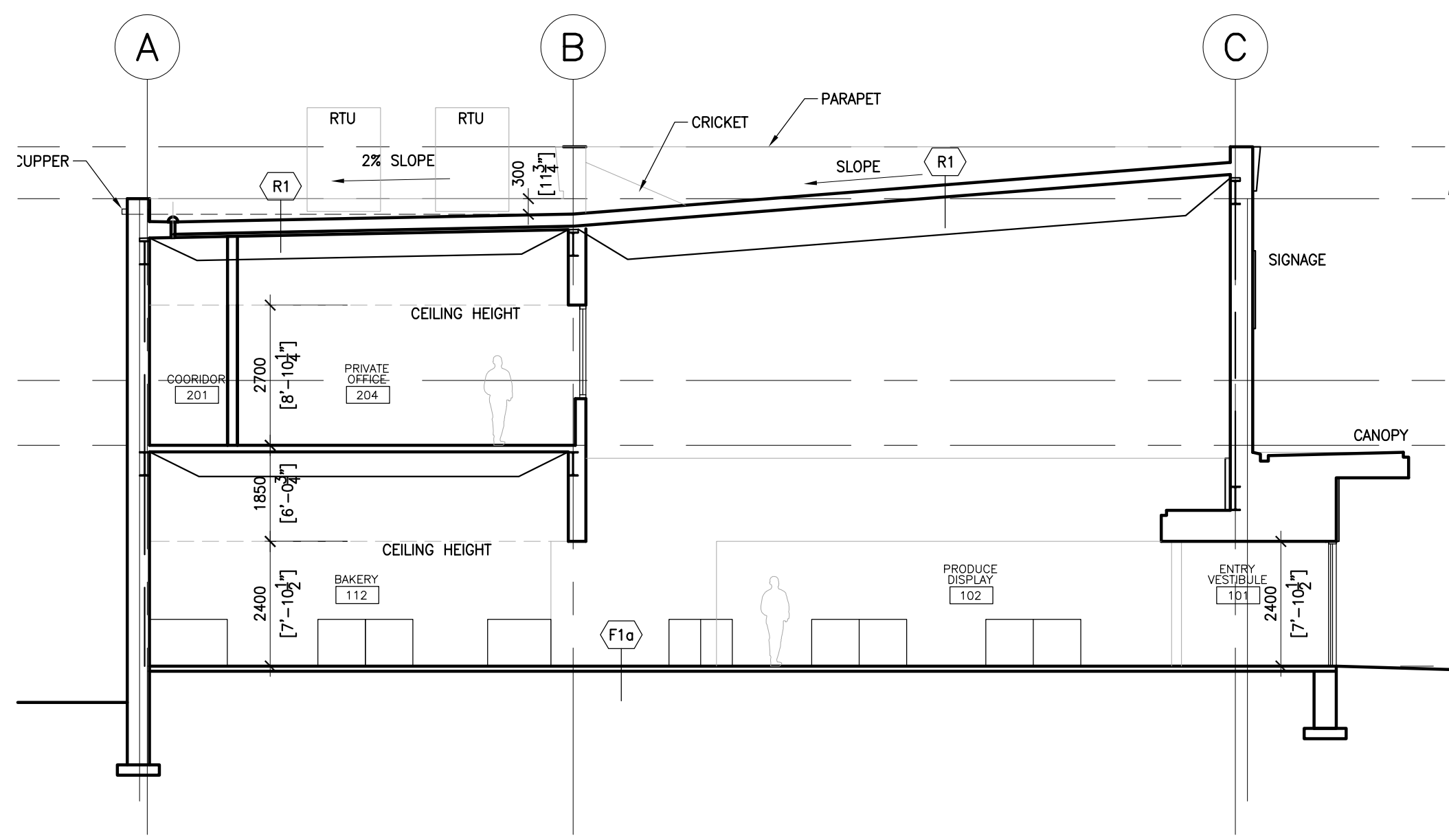
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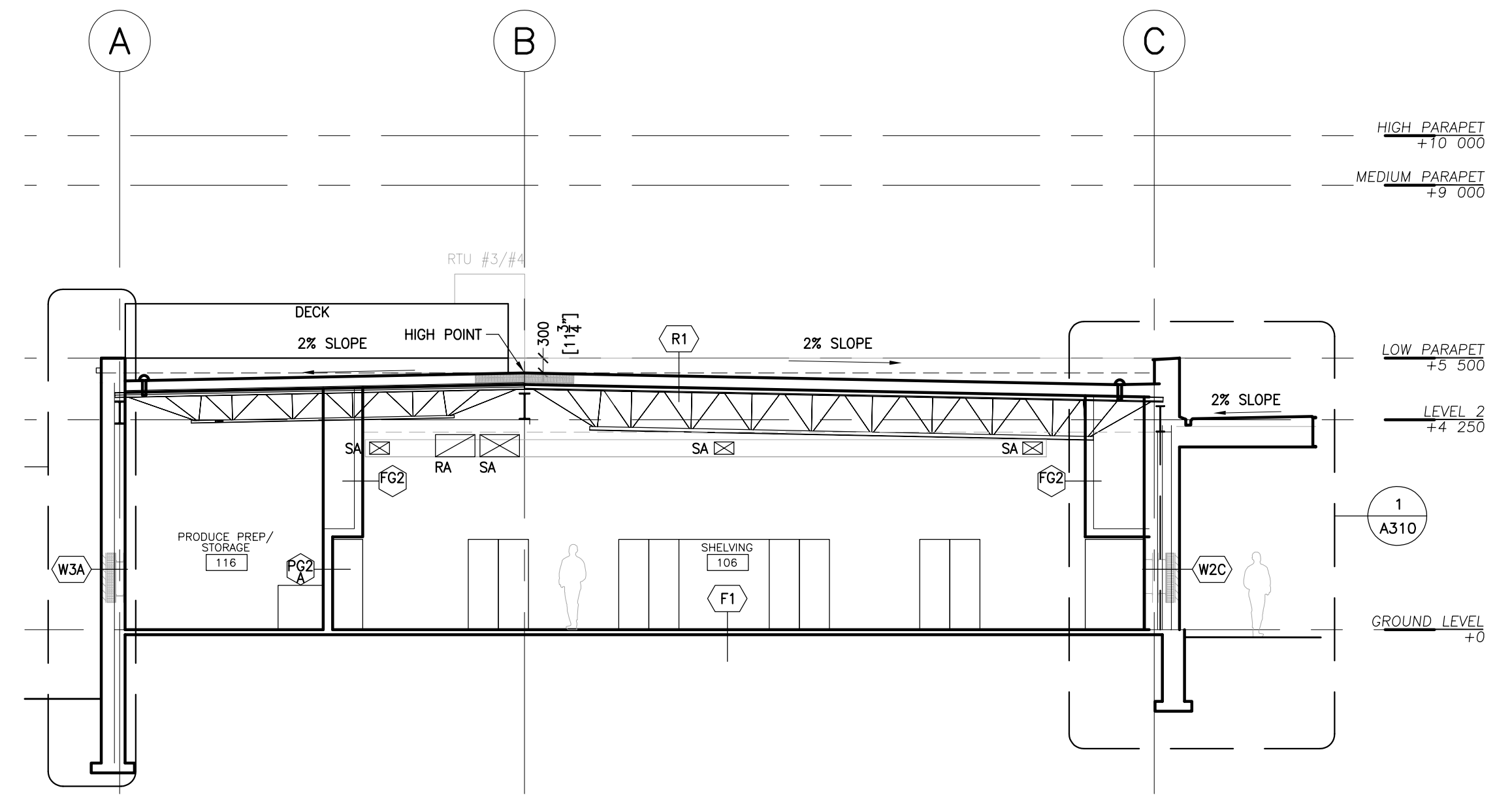
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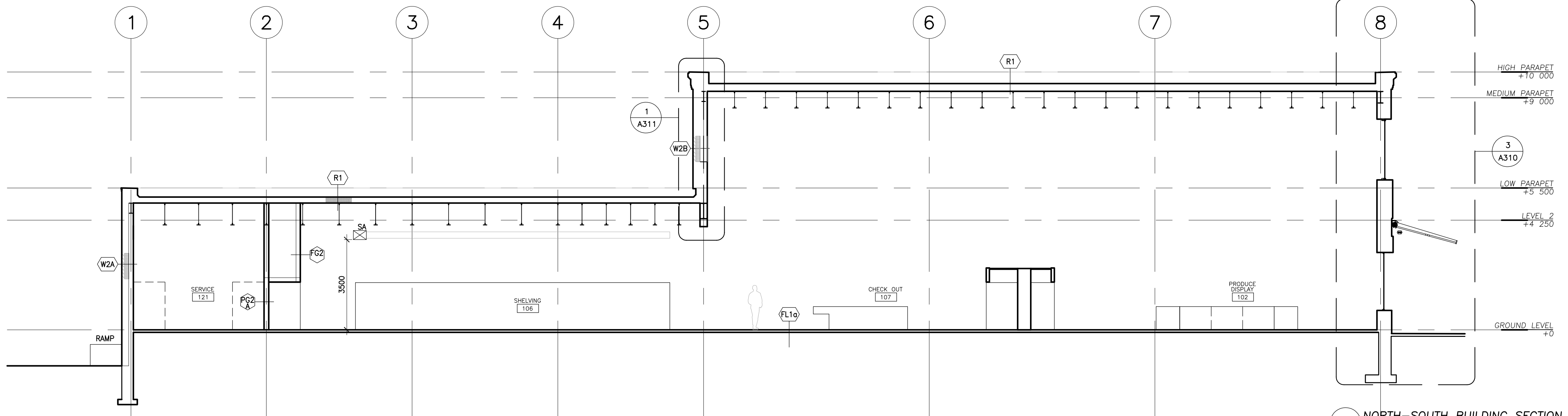
5 EAST-WEST BUILDING SECTION
1:100



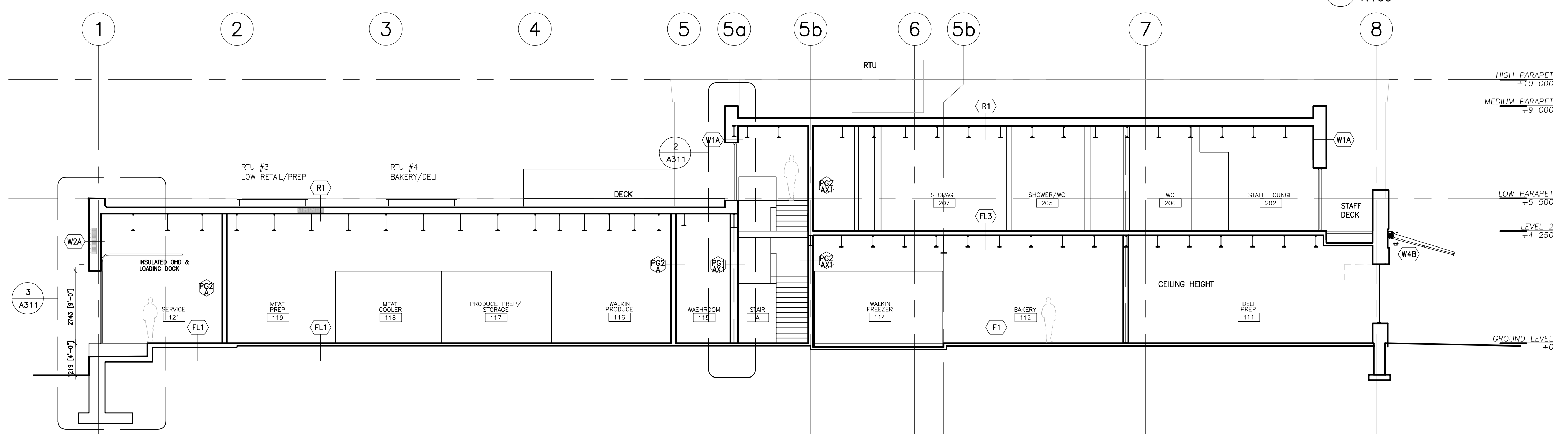
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1:100



3 EAST-WEST BUILDING SECTION
1:100

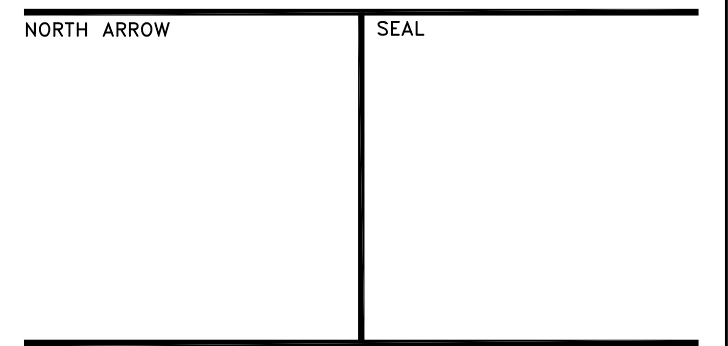


2 NORTH-SOUTH BUILDING SECTION
1:100



1 NORTH-SOUTH BUILDING SECTION
1:100

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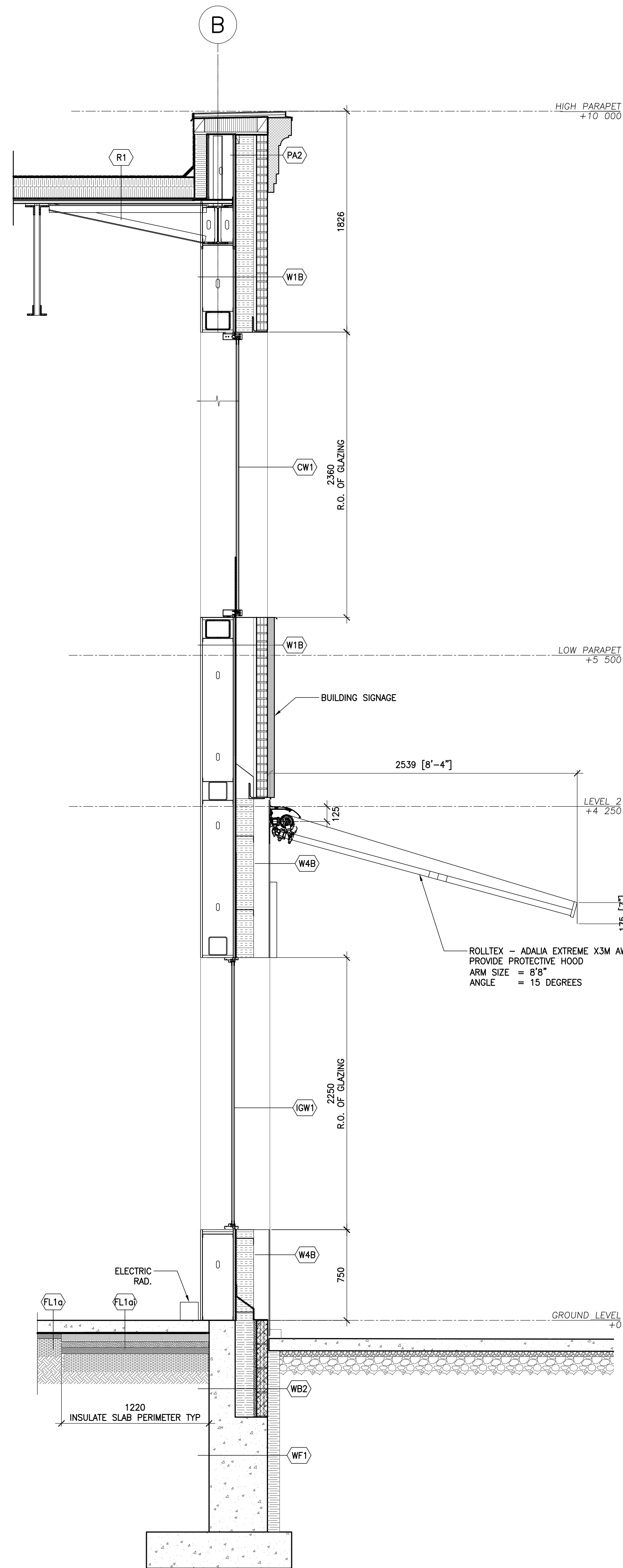


PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

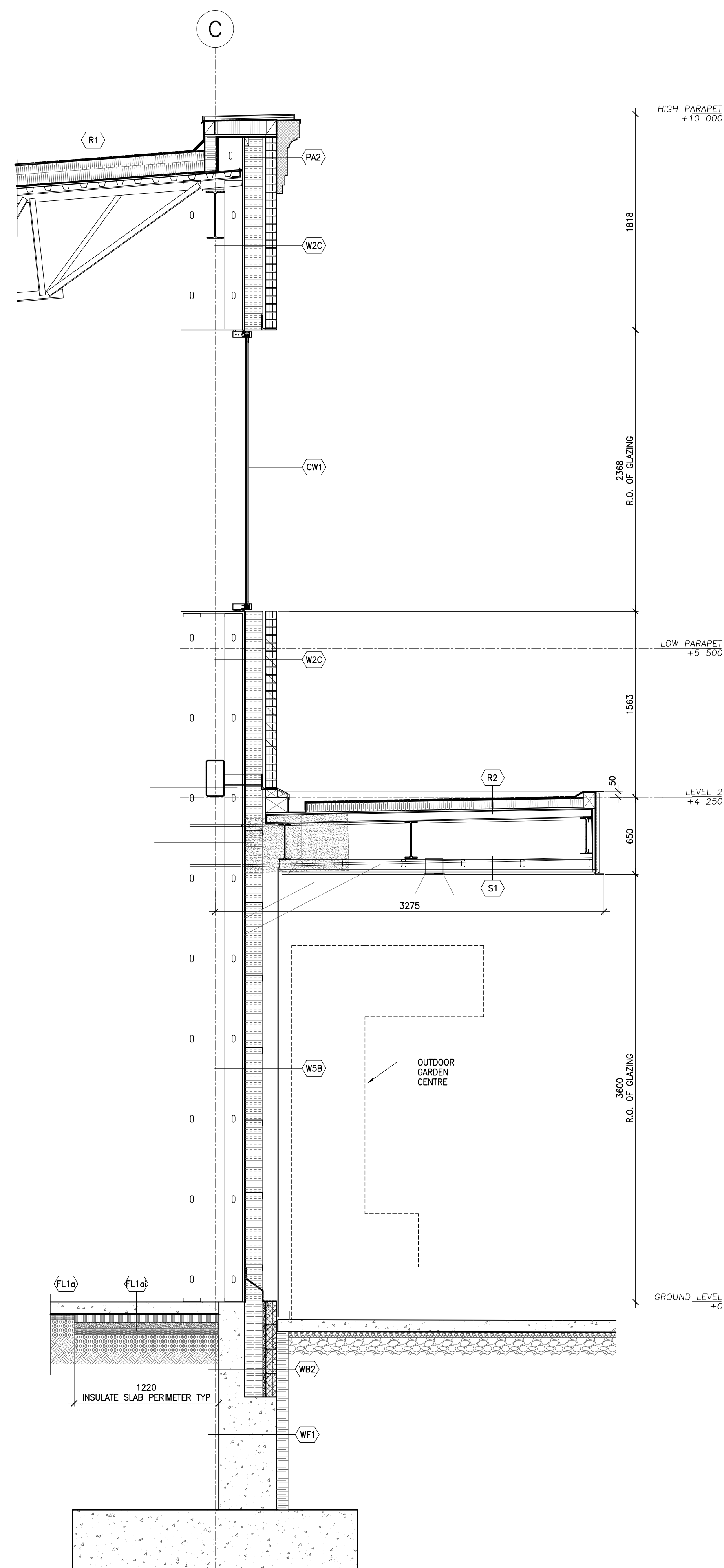
DRAWING TITLE
BUILDING SECTIONS
 SCALE
1:100
 DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

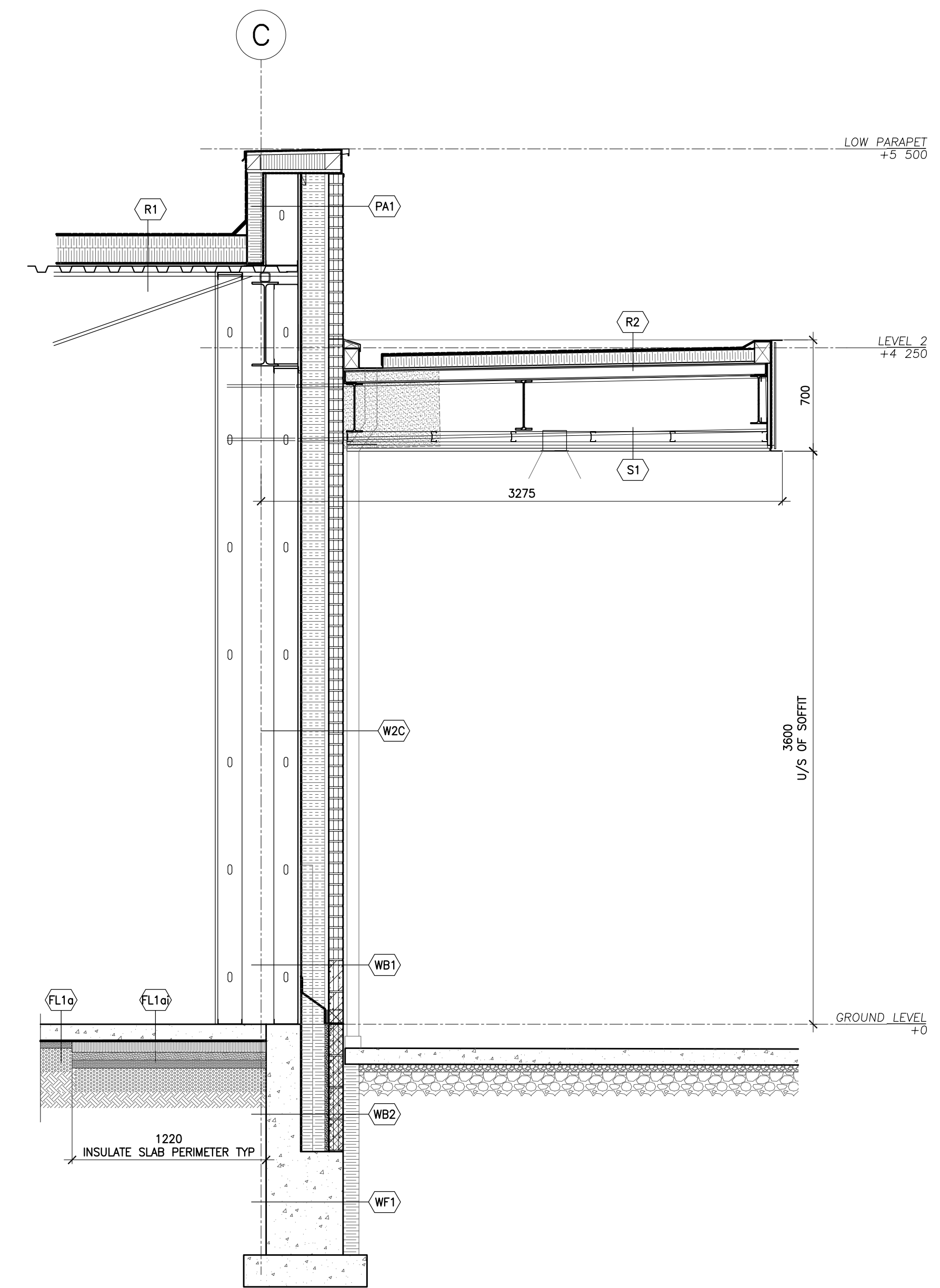
A300



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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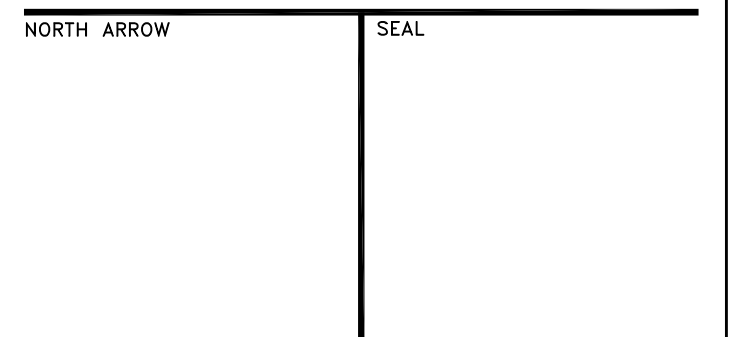
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PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE
WALL SECTIONS
EAST & SOUTH FACADES

SCALE
1:25

DATE
AUGUST 2021

PROJECT NUMBER

2102

DRAWING NUMBER

A310

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

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

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

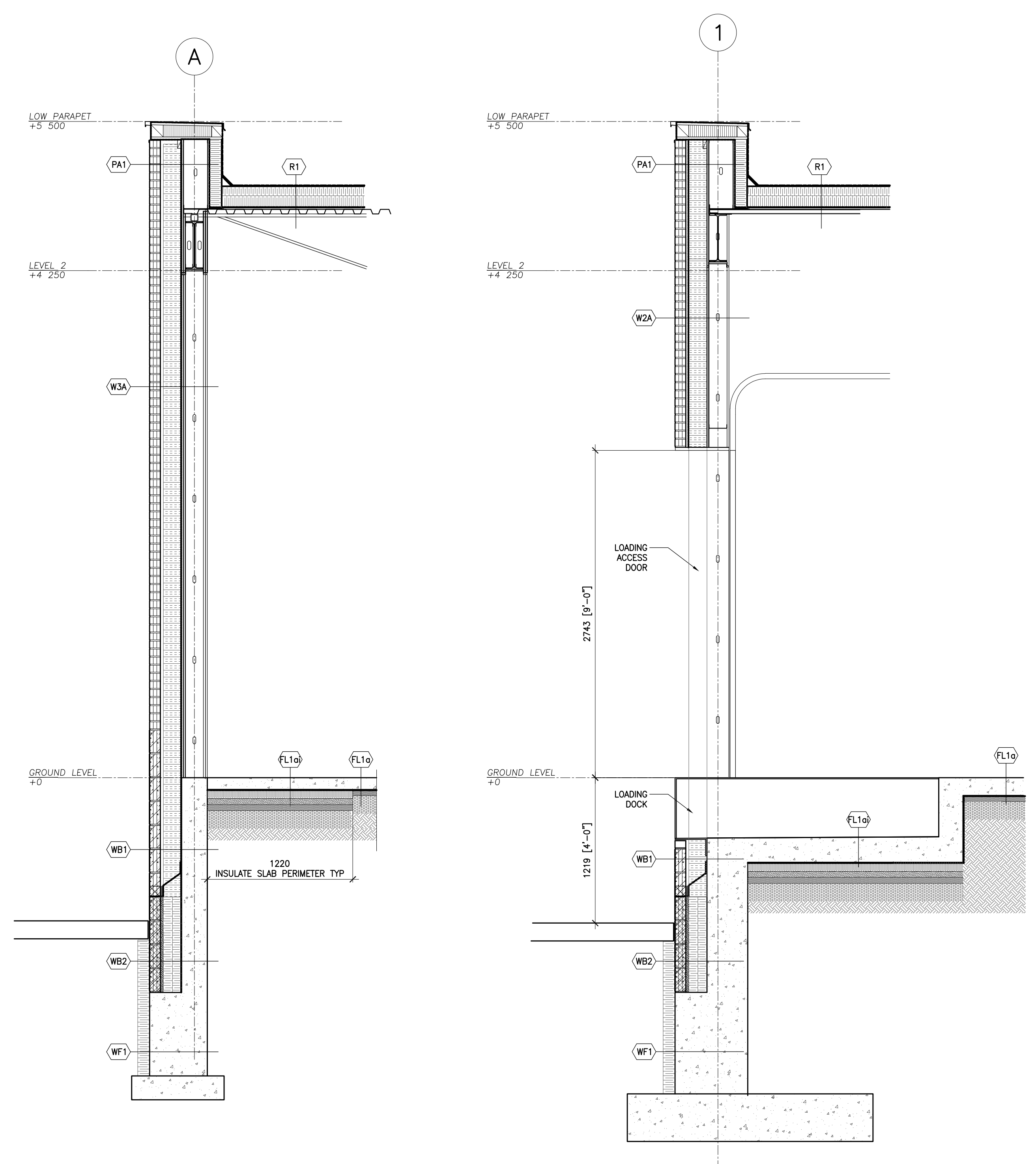
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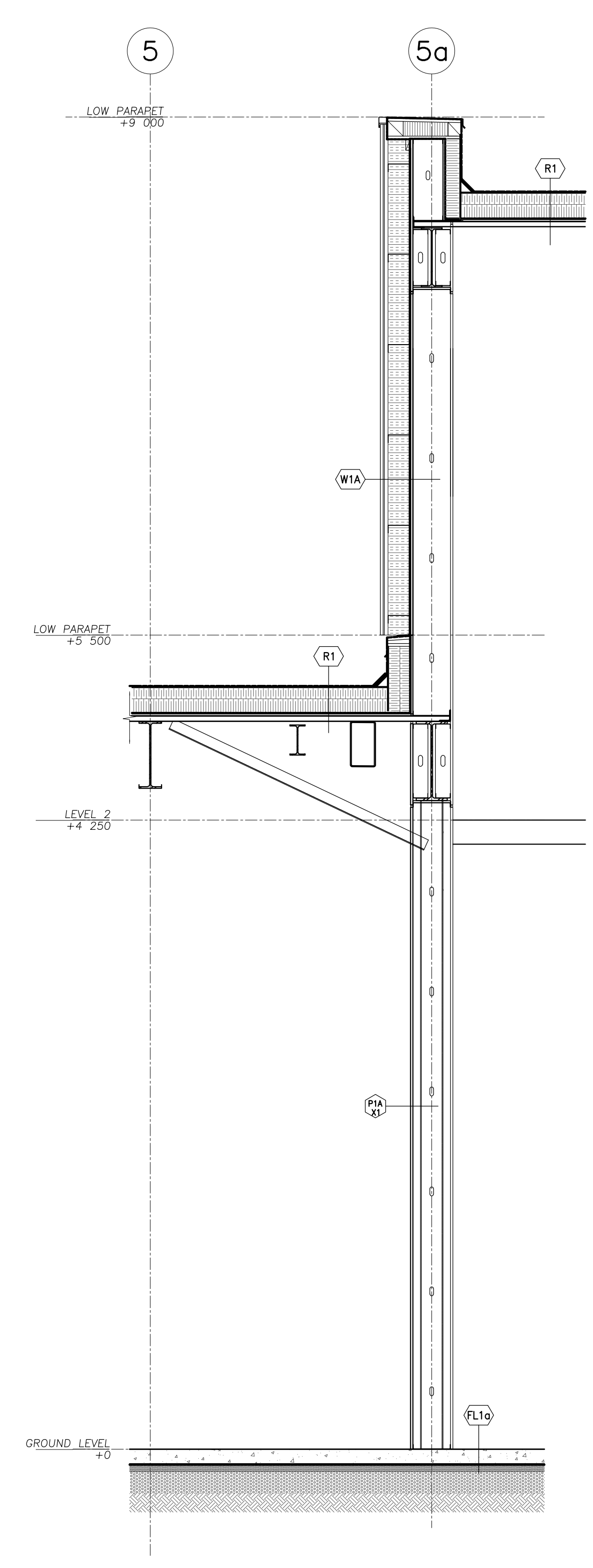
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A311

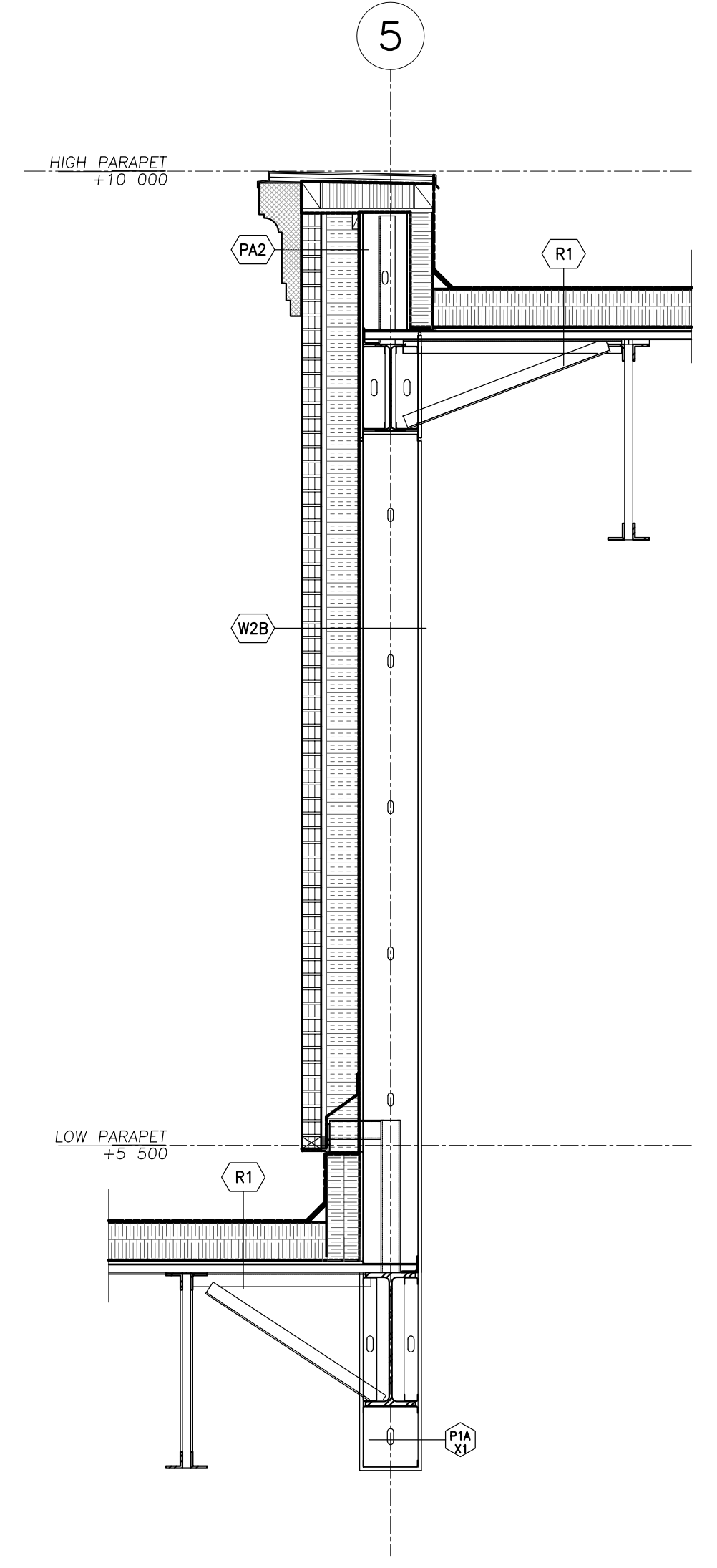


4 WALL SECTION - WEST FACADE
 1:25

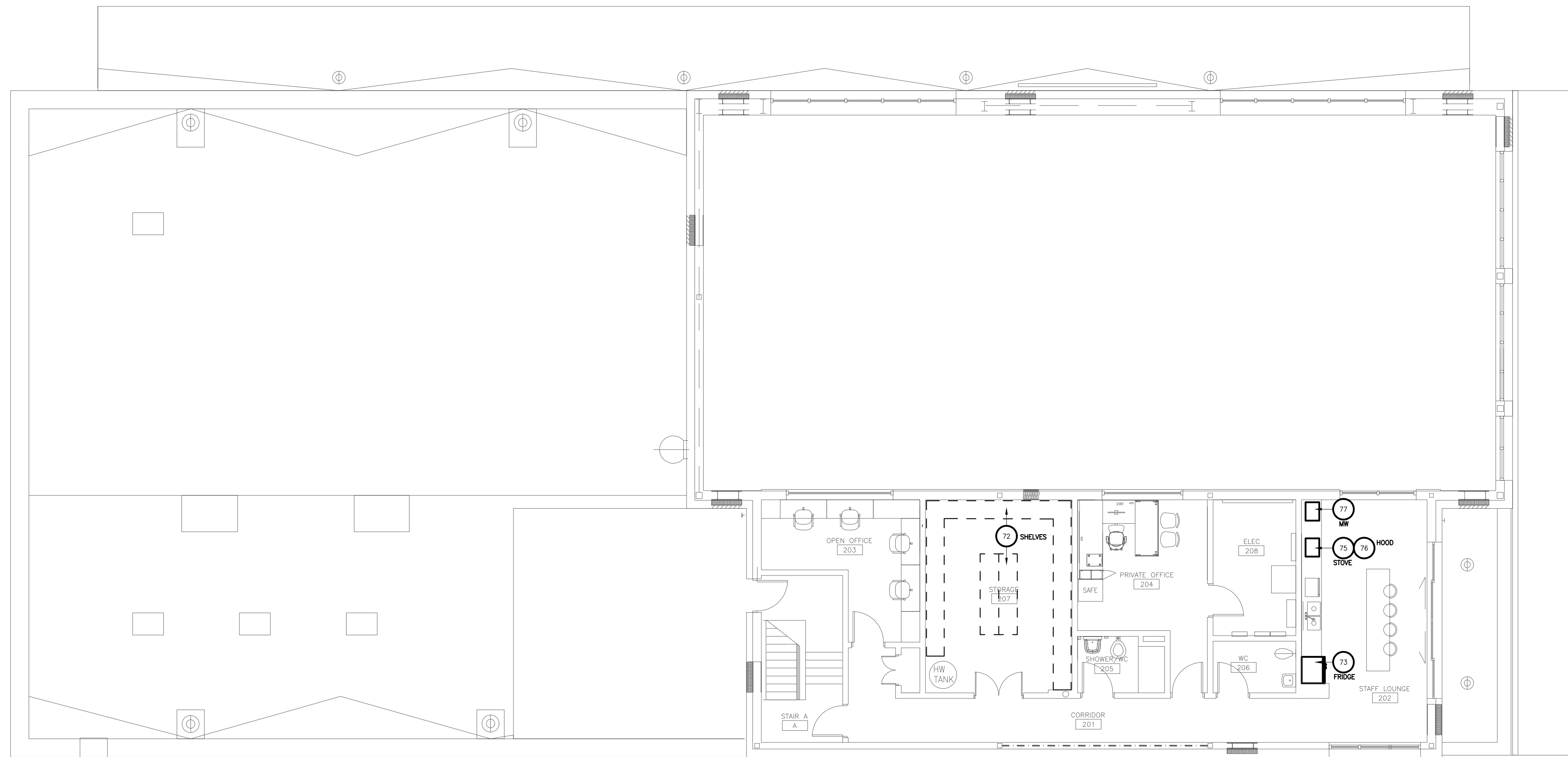
3 WALL SECTION - NORTH FACADE
 1:25



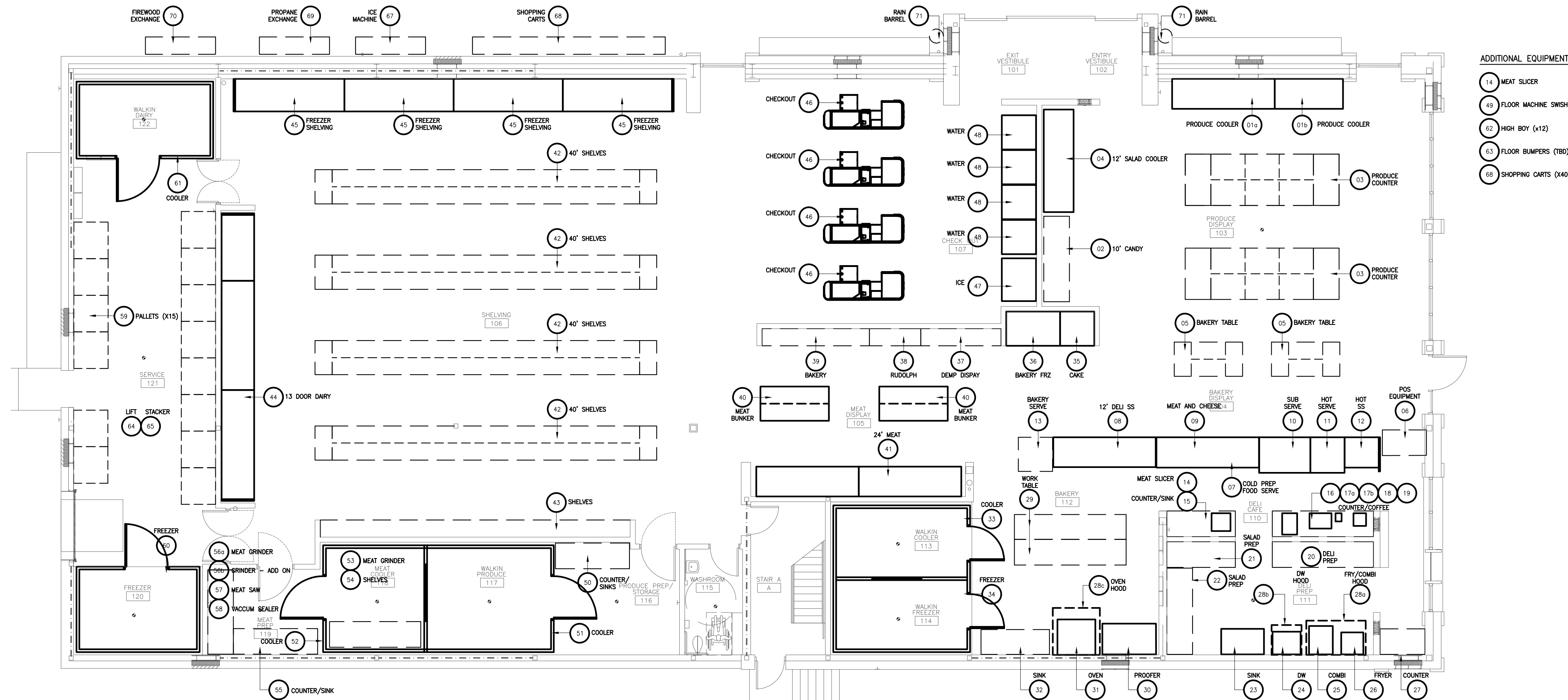
2 WALL SECTION - NORTH STAIR
 1:25



1 WALL SECTION - NORTH L2 BRICK WALL
 1:25



3 LEVEL 2 EQUIPMENT PLAN
1:100



- ADDITIONAL EQUIPMENT
- 14 MEAT SUICER
 - 48 FLOOR MACHINE SWISH
 - 02 HIGH BOY (x12)
 - 03 FLOOR BUMBERS (780)
 - 68 SHOPPING CARTS (x40)

2 GROUND LEVEL EQUIPMENT PLAN
1:100

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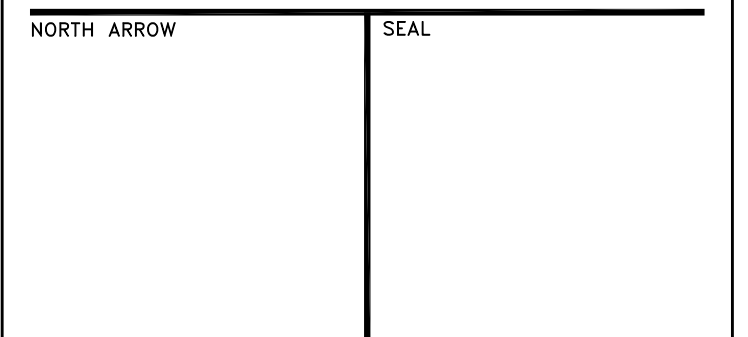
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
EQUIPMENT FLOOR PLANS

SCALE
1:100
DATE
AUGUST 2021

PROJECT NUMBER
2102
DRAWING NUMBER

A450

ITEM NO.	QTY	LOCATION	DESCRIPTION	BRAND	GENERAL	DIMENSIONS (WxDxH)	SPEC COMMENTS	MECHANICAL				ELECTRICAL				ELECTRICAL REMARKS										
								COLD WATER (mm)	HOT WATER (mm)	FILTERED H2O	DRAIN	GAS	Misc Notes	CONNECTION	AFF (mm)		VOLTS	CYCLE	PHASE	AMPS	HP	KW				
01a	1	103 - PRODUCE DISPLAY	12' PRODUCE COOLER	Arneg	LSRONA VDA_133 TASS 105-162 HF #25 2019-10-24	1657mm x 1067mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. 12' UNIT, GANG TOGETHER WITH 8' UNIT	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	1 Fan (0.57) + LED Lights (0.24 + 2) (0.48)	NA	NA	No Night Curtain No Electric Defrost Black Interior			
001	1	103 - PRODUCE DISPLAY	7' PRODUCE COOLER	Arneg	LSRONA VDA_133 TASS 105-162 HF #25 2019-10-24	2438mm x 1067mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. 7' UNIT, GANG TOGETHER WITH 12' UNIT	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	1 Fan (0.36) + LED Lights (0.16) + 2 (0.32)	NA	NA	No Night Curtain No Electric Defrost Black Interior			
02	1	103 - PRODUCE DISPLAY	8' CARRY	Covage			OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.			
03	2	103 - PRODUCE DISPLAY	PRODUCE COUNTER	Covage			OWNER SUPPLIED	NA	NA	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	LSRONA R05_2_15 OR T476 205-191 LF MF #18 2008-06-14	1657mm x 1067mm x 2898mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	1 Fan (0.57) + LED Canopy + 1 + LED 5 rows Shelves (2.5) TOTAL = 2.82 A	NA	NA	No Electric Defrost Black Interior			
05	2	104 - BAKERY DISPLAY	BAKERY TABLE	Covage			OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.		
06	1	104 - BAKERY DISPLAY	KOS EQUIPMENT	None			OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	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	NA	NA	NA	No Elec. Req.	
08	1	110 - DEI CAFE	12' DEI SELF SERVE	Arneg	LSRONA P003-1 LS UB T835 130-136 LF MF #66 2014-01-30	1657mm x 1067mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	1 Fan (0.57) + LED Canopy + 1 + LED 3 rows Shelves (2) TOTAL = 2.32 A	NA	NA	No Electric Defrost Black Interior			
09	1	110 - DEI CAFE	MEAT & CHEESE	Arneg	GLASSGOW 1 V	1658mm x 1083mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	12 Fans (1.7) + LED Canopy + 1 + LED 2 rows Shelves (2) TOTAL = 2.7 A	NA	NA	Provide Separate hardwired connection to GFI Plug Supplied with Case (for scales)			
10	1	110 - DEI CAFE	SUB SRV	Arneg	MOE 3 FROD/COLD	1829mm x 1270mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.12" ABS (42)	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	1 Fan (0.48) + LED Canopy + 20x LED 5 rows Shelves (2) TOTAL = 0.8 A	NA	NA	NA			
11	1	110 - DEI CAFE	HOT SRVC	Arneg	GLASSGOW 1 HOT/CHAUD	1219mm x 1083mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	No Drain	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	2 Fans (0.28) + LED Canopy + 2 TOTAL = 0.8 A Hot Plate = 18.6A	NA	NA	Provide Separate hardwired connection to GFI Plug Supplied with Case (for scales)			
12	1	110 - DEI CAFE	HOT SS	Arneg	GLASSGOW 1 HOT/CHAUD	1219mm x 1083mm x 1372mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	No Drain	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	2 Fans (0.28) + LED Canopy + 2 TOTAL = 0.8 A Hot Plate = 18.6A	NA	NA	Provide Separate hardwired connection to GFI Plug Supplied with Case (for scales)			
13	1	110 - DEI CAFE	BAKERY SEAL				OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Elec. Req.		
14	2	110 - DEI CAFE	MEAT SLICER	Hobart	H9-1 MEAT SLICER	673mm x 655mm x 788mm	OWNER SUPPLIED Note: Inc. Removable Knife Option	NA	NA	NA	NA	NA	NA	NA	Wiring 5-508	1" Cord	120v	60hz	1	1.6A	1/2 HP	677w	-	-		
15	1	110 - DEI CAFE	MEAT SLICER COUNTER/SINK	IBS			OWNER SUPPLIED																			
16	1	110 - DEI CAFE	MURBO CHEF	Hendix	Turbochef - Murbo	538mm x 783mm x 585mm	OWNER SUPPLIED Note: Ventless	NA	NA	NA	NA	NA	NA	Not to be used for Fatty Process - no hood req.	Wiring 6-30P	1" Cord	208/240vac	60hz	2	NA	NA	NA	NA	3.3 KW		
17a	1	110 - DEI CAFE	ESPRESSO MACHINE	Smeg	Smeglet Alpha Life 2 Group Full Size	788mm x 456mm x 508mm	OWNER SUPPLIED Note: RWT to chute 0; (03080211) - The Coffee Truck Drawer Company	1/2"	NA	NA	Yes - 1" min.	NA	NA	1/2" Dedicated Cold Water Line with Shutoff valve & 1/2" compression fitting. Inc. RWT in low water softener	Wiring 6-208	Water Cooler	210v	60hz	3	20A						
17b	1	110 - DEI CAFE	ESPRESSO MACHINE	Smeg	Smeglet Alpha Life 2 Group Full Size	788mm x 456mm x 508mm	OWNER SUPPLIED																			
17c	1	110 - DEI CAFE	ESPRESSO MACHINE	Smeg	Smeglet Alpha Life 2 Group Full Size	788mm x 456mm x 508mm	OWNER SUPPLIED																			
18	1	110 - DEI CAFE	COFFEE MAKER	Sumo	Ascom DVA-A12a_C_A10CM-DV-APS	229mm x 154mm x 654mm	OWNER SUPPLIED	1/4"						Supplied with 1/4" male floor fitting	Hardwired		120v	60hz	3	32.5A					3475W	
19	1	110 - DEI CAFE	ESPRESSO COUNTER	IBS			OWNER SUPPLIED																			
20	1	111 - DEI PREP	12' DEI PREP	IBS			OWNER SUPPLIED																			
21	1	111 - DEI PREP	8' SALAD PREP	IBS			OWNER SUPPLIED																			
22	1	111 - DEI PREP	20' SALAD PREP	IBS			OWNER SUPPLIED																			
23	1	111 - DEI PREP	SINK	IBS			OWNER SUPPLIED - CONTRACTOR INSTALLED																			
24	1	111 - DEI PREP	DISHWASHER	HOBART	AM14VLT-8AS	1000mm x 813mm x 1718mm	OWNER SUPPLIED - CONTRACTOR INSTALLED Note: No Vent Hood. Review Oil and Grease Discharge	1/4" female garden hose (8' length)	1/4" female garden hose (8' length)	1/4" female garden hose (8' length)	1/2" Barb fitting with hose (8' length)	NA	NA	NA	Hardwired	11-12 1/2" AFF 13-14 1/2" AFF 15-208-240	12-208-240 13-208-240	60hz	3	11-50 12-50 13-60					Refer to Spec Sheet For EL E2, E3 Designations	
25	1	111 - DEI PREP	COMBI	Rational	Rcom6 Pro1 Onaf size E/G	852mm x 1021mm x 779mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	1/4" hose	NA	NA	2" CD	NA	NA	NA	Hardwired	15mm AFF	208/240 VAC	60hz	3	60A Breaker					189 Kw Electric - Not Gas Option	
26	1	111 - DEI PREP	RYER	HOBART	2TRAF-1	787mm x 765mm x 1200mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	Propane	1 1/4" NPT Common Gas Connection 288mm AFF	Hardwired		120v	60hz	1 phase	5A						1/2 HP	
27	1	111 - DEI PREP	COUNTER	IBS			OWNER SUPPLIED																			
28a	1	111 - DEI PREP	EXHAUST HOOD COMBI + FRYER	SAYGORD	BL-ND-KGS-DCA-300-54 RW-1A MAKE UP AIR PLENUM BOX ANGULAR FIRE SUPPRESSION SYSTEM	5'0"	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA	REFER TO MECHANICAL DRAWINGS	Hardwired											
28b	1	111 - DEI PREP	EXHAUST HOOD OVEN	SAYGORD	BL-ND-KGS-DCA-300-66 RW-12 MAKE UP AIR PLENUM BOX ANGULAR FIRE SUPPRESSION SYSTEM	5'0"	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA	REFER TO MECHANICAL DRAWINGS	Hardwired											
28c	1	111 - DEI PREP	EXHAUST HOOD DISHWASHER	SAYGORD	W3-W-42 VENTILATOR ANGULAR FIRE SUPPRESSION SYSTEM	5'0"	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA	REFER TO MECHANICAL DRAWINGS	Hardwired											
29	2	112 - BAKERY	BAKERY WORK TABLE	IBS			OWNER SUPPLIED																			
30	1	112 - BAKERY	PROOFER	HOBART	RW25-401" D-FL	1938mm x 1102mm x 2527mm	OWNER SUPPLIED - CONTRACTOR INSTALLED 1/2" High Options HC, REFRSA Remote Refrigeration, Note: Electric Oven	1/2" FAPT 80" AFF	NA	NA	1/2" FAPT 97" AFF	NA	NA	NA	Hardwired	15" AFF	240v	60hz	3 phase	NA	NA	NA	NA	NA		
31	1	112 - BAKERY	OVEN	BOYON	1420	1353mm x 1264mm x 1854mm	OWNER SUPPLIED - CONTRACTOR INSTALLED Note: Electric Oven	1/4" NPT	NA	YES	NA	NA	NA	1/4" Water Fitter (P134)	Hardwired		208v	60hz	1 phase	135A					120W	
32	1	112 - BAKERY	COUNTER/SINK	IBS			OWNER SUPPLIED - CONTRACTOR INSTALLED																			
33	1	113 - WALKIN COOLER	COOLER	WALKIN MASTER	4" COOLER PANELS	2168mm x 687mm x 2748mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA													
34	1	114 - WALKIN FREEZER	FREEZER	WALKIN MASTER	4" FREEZER PANELS	2168mm x 687mm x 2748mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	NA	NA	NA													
35	1	105 - MEAT DISPLAY	KAKE	Arneg	PV03-8	1219mm x 1067mm x 1372mm (excluding weight)	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v	60hz	1	1 Fan (0.36) + LED Canopy + 17 + LED rows 3 Shelves (2) TOTAL = 0.8 A	NA	NA	No Electric Defrost Black Interior			
36	1	105 - MEAT DISPLAY	DOOR BAKERY FREEZER	HUSMANN	RLTM	1575mm x 1162mm x 2361mm	OWNER SUPPLIED - CONTRACTOR INSTALLED	NA	NA	NA	1.12" ABS	NA	NA	NA	Hardwired	Floor Supplied	120v Typical 200v Electric Defrost Heater	60hz	1/2 3	2 Fans (1.36) Rear Heat = 1.4A, Rear Heat = 0.96A, LED Lighting = 0.36A, Rear Heat = 0.96A, Defrost Heat = 6.72A	NA	NA				
37	1	105 - MEAT DISPLAY	TEMP DISPLAY	Covage			OWNER SUPPLIED																			
38	1	105 - MEAT DISPLAY	BUCKLEUP	Covage			OWNER SUPPLIED																			
39	1	105 - MEAT DISPLAY	BAKERY SHELVING	Covage			OWNER SUPPLIED																			

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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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			
7			
8			

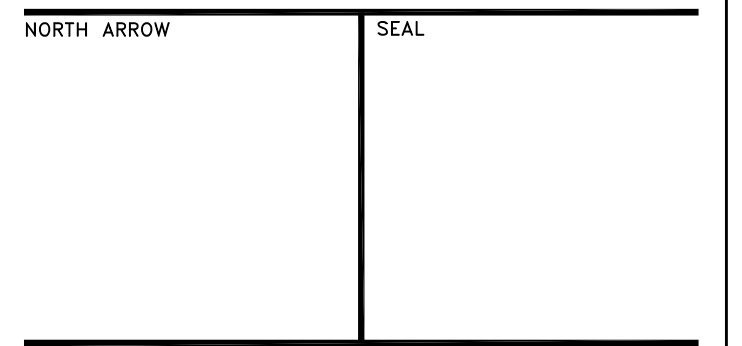
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
EQUIPMENT SCHEDULE
SCALE
NTS
DATE
AUGUST 2021

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 HD	DRAIN	GAS					CYCLE	PHASE	AMPS					
40	2	105 - MEAT DISPLAY	MEAT BUNNER	AHQE	JAYAL G2 5/C	2545mm x 1048mm x 935mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	NA	NA	NA	Hardwired	Floor Supplied	110V	60Hz	1	0.08A	NA	NA			
41	2	105 - MEAT DISPLAY	2" MEAT SHELF	AHQE	LIBBONA WPKL_S1 LB TD76 105-191 HF 816 2016-06-14	3657mm x 1067mm x 208mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. 2" VERT. GANG TOGETHER TWO UNITS	NA	NA	NA	1 1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	Fans = 1.25A Control = 0.5A Shelf = 1.25A	NA	NA	Dedicated Circuit No Defeat		
42	4	106 - SHELVING	8" SHELVING	STALER			OWNER SUPPLIED - CONTRACTOR INSTALLED. PROV DE FLOOR MOUNTING ELECTRICAL CONNECTIONS.																Provide Floor Mount Connections	
43	1	106 - SHELVING	SHELVES	ITACK			OWNER SUPPLIED - CONTRACTOR INSTALLED.																	
44a	2	106 - SHELVING	5 DOOR DAIRY SHELVING	HUSSMANN	RMTM	3895mm x 1162mm x 2261mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. GANG TOGETHER TWO 5 DOOR AND ONE 3 DOOR UNITS	NA	NA	NA	1 1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	5 Fans = 2.5A Door Heat = NA Frame Heat = 0.37A LED Lighting = 0.86A					
44b	1	106 - SHELVING	3 DOOR DAIRY SHELVING	HUSSMANN	RMTM	2350mm x 1162mm x 2261mm	OWNER SUPPLIED - CONTRACTOR INSTALLED. GANG TOGETHER TWO 3 DOOR AND ONE 3 DOOR UNITS	NA	NA	NA	1 1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v	60Hz	1	3 Fans = 0.3A Door Heat = NA Frame Heat = 0.22A LED Lighting = 0.53A					
45	4	106 - SHELVING	5 DOOR FREEZER SHELVING	HUSSMANN	RLTM	3895mm x 1162mm x 2261mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1 1/2" ABS	NA	NA	Hardwired	Floor Supplied	120v Typical 200v Electric Defrost Heater	60Hz	1/3	5 Fans = 2.5A Door Heat = 0.6A Frame Heat = 2.6A LED Lighting = 0.86A					
46	4	107 - CHECKOUT	CHECKOUT	PAN OSTOR	3-64-120	2867mm x 1235mm x 1105mm	OWNER SUPPLIED AND INSTALLED. CONTRACTOR PROVIDES ROUGH-INS	NA	NA	NA	NA	NA	NA			120			2.5A					
47	1	107 - CHECKOUT	ICE MACHINE	HILAND IC	MODE 60		OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	North 5-15p	6 Long Cord	110V	60Hz	3 phase	31A	NA	NA	NA	Indicated Circuit	
48	4	107 - CHECKOUT	3/4" WATER	ROCKY RIDGE	87" 1/2" MODEL	1207mm x 1207mm x 1702mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
49	1	A - STAIRS	FLOOR MACHINE SWISH				OWNER SUPPLIED																	
50	1	116 - PRODUCE PREP/STORAGE	COUNTER/SINKS	GBS			OWNER SUPPLIED - CONTRACTOR INSTALL SINK																	
51	1	117 - WALKIN PRODUCE	COOLER	COOL MASTER	4" COOLER PANELS OUTDOOR COMPRESSOR (ASH99S122NAFG1) INTERIOR COILS LIGHT	3810mm x 4573mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1"	NA	Coordinate location of drain with based on condensate requirements	Hardwired		OUTDOOR COMPRESSOR (ASH99S122NAFG1) = 200V INTERIOR COILS = 115V LIGHT = 115V	60Hz		OUTDOOR COMPRESSOR (ASH99S122NAFG1) = 15A INTERIOR COILS = 15A LIGHT = 15A	OUTDOOR COMPRESSOR (ASH99S122NAFG1) = 1 1/2 HP				
52	1	118 - MEAT COOLER	COOLER	COOL MASTER	4" COOLER PANELS OUTDOOR COMPRESSOR (ASH99S122NAFG1) INTERIOR COILS LIGHT	3810mm x 1367mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	1"	NA	Coordinate location of drain with based on condensate requirements	Hardwired		OUTDOOR COMPRESSOR (ASH99S122NAFG1) = 200V INTERIOR COILS = 115V LIGHT = 115V	60Hz		OUTDOOR COMPRESSOR (ASH99S122NAFG1) = 20A INTERIOR COILS = 15A LIGHT = 15A	OUTDOOR COMPRESSOR (ASH99S122NAFG1) = 1 1/2 HP				
53	1	118 - MEAT COOLERS	MEAT GRADER	HOBART	1140-39	2235mm x 876mm x 1219mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	Hardwired		200v	60Hz	3 phase	31.28A	3hp	2.66kW			
54	1	118 - MEAT COOLERS	SHELVES	GBS			OWNER SUPPLIED																	
55	1	119 - MEAT PREP	COUNTER/SINKS	GBS			OWNER SUPPLIED - CONTRACTOR INSTALL SINK																	
56a	1	119 - MEAT PREP	MEAT GRADER	HOBART	MC2012-3 Prime Meat Grinder	886mm x 1448mm x 1275mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	115-100	6 Long Cord	200v	60Hz	3 phase	38A	7.5 hp 3 hp - Max				
56b	1	119 - MEAT PREP	MEAT GRINDER - TENDERIZER	HOBART	MS 1 Tenderizer	510mm x 267mm x 486mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	North 5-15p	6 Long Cord	110v	60Hz	3 phase	NA	1/2 hp	80W			
57	1	119 - MEAT PREP	MEAT BONE SAW ELECTRIC	HOBART	881-22 MEAT BONE SAW	605mm x 4435mm x 610mm	OWNER SUPPLIED							115-100p	6 Long Cord	248 240v	60Hz	3 phase	225	3hp	1.595kW			
58	1	119 - MEAT PREP	VACUUM SCALER	HOBART			OWNER SUPPLIED																	
59	15	121 - SERVICE	PALLETS RACKING	GBS			OWNER SUPPLIED																	
60	1	120 - FREEZER	FREEZER	COOL MASTER	4" FREEZER PANELS	3048mm x 4394mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	NA	NA	NA											
61	1	121 - WALKIN DAIRY	COOLER	COOL MASTER	4" COOLER PANELS	2745mm x 4876mm x 2743mm	OWNER SUPPLIED - CONTRACTOR INSTALLED.	NA	NA	NA	NA	NA	NA											
62	12	000 - MIC INTERIOR	HIGH BOYS	TBD			OWNER SUPPLIED																	
63	TBD	000 - MIC INTERIOR	FLOOR BUMPERS	AHQE or PBI Phoenix			OWNER SUPPLIED - CONTRACTOR INSTALLED.																	
64	1	000 - MIC INTERIOR	LFT	Phoenix			OWNER SUPPLIED																	
65	1	000 - MIC INTERIOR	STACKER	TBD			OWNER SUPPLIED																	
66	Reserved																							
67	1	000 - EXTERIOR	ICE MACHINE	HILAND ICE	Model 100	2388mm x 902mm x 3012mm	200 Td Capacity OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	North 5-15p	6 Long Cord	110V	60Hz	3 phase	31A	NA	NA	NA	Exterior, Dedicated Circuit	
68	40	000 - EXTERIOR	SHOPPING CARTS	TBD			OWNER SUPPLIED																	
69	1	000 - EXTERIOR	PROPANE EXCHANGE	TBD			OWNER SUPPLIED																	
70	1	000 - EXTERIOR	FIREWOOD EXCHANGE	TBD			OWNER SUPPLIED																	
71	2	000 - EXTERIOR	RAIN BARRELS	TBD			OWNER SUPPLIED																	
72	TBD	207 - STORAGE	STORAGE SHELVES	GBS			OWNER SUPPLIED																	
73	1	202 - STAFF LOUNGE	RESIDENTIAL FRIDGE	FRIENG	FRN3161 - 36"	214mm x 720mm x 1765mm	OWNER SUPPLIED 35 Finish	24"	NA	FES	NA	NA	FRN 3161-36 max psi = 100	North 5-15p		120V	60Hz	3 phase	15A or 20A	NA				
74	Reserved																							
75	1	203 - STAFF LOUNGE	STOVE - STANDARD ELECTRIC RANGE/OVEN	Frigidaire	CFE1030SAU/W	36-5/8"x20-7/8"x23-3/8"	OWNER SUPPLIED																	
76	1	203 - STAFF LOUNGE	STOVE - HOOD	Blum	BC31456C		OWNER SUPPLIED - CONTRACTOR INSTALL																	
77	1	204 - STAFF LOUNGE	MICROWAVE	Frieng	RM1600	510mm x 489mm x 539mm	OWNER SUPPLIED	NA	NA	NA	NA	NA	NA	North 5-15p		220v	60Hz	3 phase	31A	NA				
78	1	000 - EXTERIOR	SHOPPING CART CORREL				OWNER SUPPLIED																	
79	1	Roof Top	Refrigeration Condenser	TBD			OWNER SUPPLIED - CONTRACTOR INSTALLED.																	

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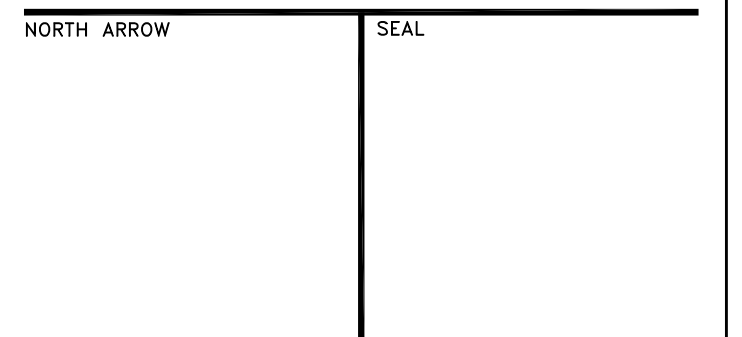
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE

EQUIPMENT SCHEDULE

SCALE

NTS

DATE

AUGUST 2021

PROJECT NUMBER

2102

DRAWING NUMBER

A452

0006 – LOADING DOCK LEVELER, SEAL, ACCESSORIES, DOOR

Loading Dock Specifications - Sayer's Grocery Store in Apsley, 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
 VB4201 IF 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" 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: (4) Four - Serco Overhead Doors
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	MAT'L	FIN.								
1	101	EXIT VESTIBULE	D001	3188	2600	SED1	ALUM	-	TG	-	SEE SCREEN SCH'D	YES	NO	-	-	-	-	-	-	REFER TO EG002 ON X10 - SCREEN SCHEDULE	
1	102	ENTRY VESTIBULE	D002	3188	2600	SED1	ALUM	-	TG	-	SEE SCREEN SCH'D	YES	NO	-	-	-	-	-	REFER TO EG002 ON X10 - SCREEN SCHEDULE		
1	104	BAKERY DISPLAY	D003	2000	3000	D-03	WD	-	TG	-	-	-	NO	-	-	-	-	-	-		
1	A	STAIR A	D004	1000	2150	D-01	HM	PT	-	-	F-01	HM	PT	YES	NO	-	-	-	-		
1	121	SERVICE	D005	1220	2150	D-01	HM	PT	-	-	F-01	HM	PT	YES	NO	-	-	-	-		
1	122	SERVICE - DOCK	D006	2440	2743	-	-	-	-	-	-	-	-	-	-	-	-	-	REFER TO DOOR - LOADING DOCK LEVELER, SEAL, ACCESSORIES, DOOR SPECIFICATION AND DETAILS		
2	202	STAFF LOUNGE	D101	1000	2350	D-01	HM	PT	TG	-	SEE SCREEN SCH'D	YES	NO	-	-	-	-	-	REFER TO SCREEN SCHEDULE - TRANSMISSION 7700		
2	A	STAIR A	D102	1000	2150	D-01	HM	PT	-	-	F-01	HM	PTD	YES	NO	-	-	-	-		

INTERIOR DOOR SCHEDULE

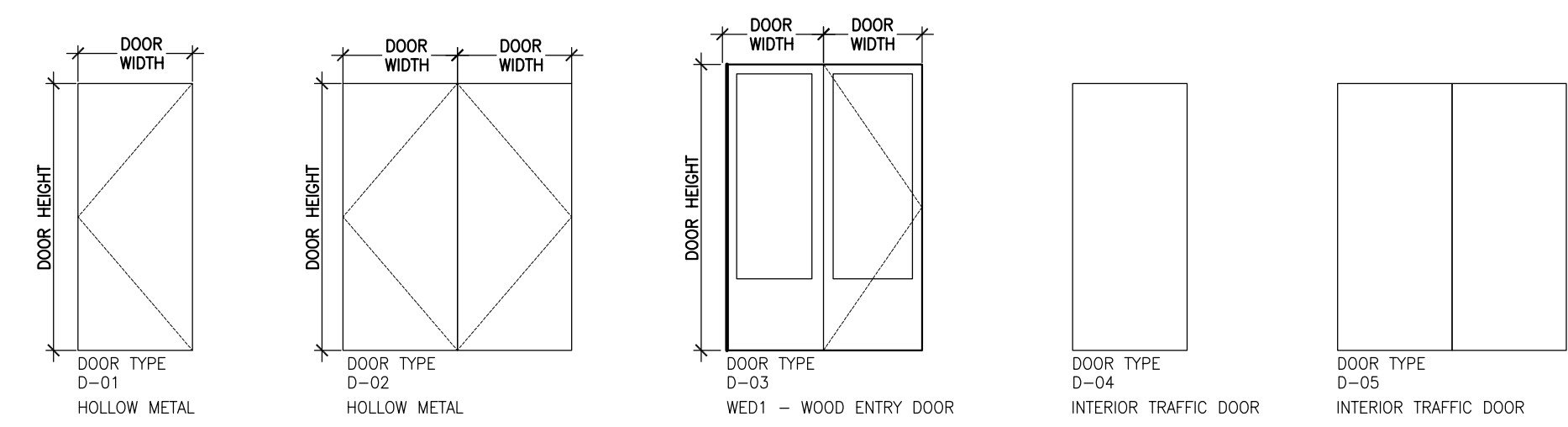
LEVEL	ROOM#	ROOM NAME	DOOR#	DOOR						JAMB TYPE	FRAME			INSUL	FIRE RAT'G	HINGE	LOCK	PANIC HARDWARE	CLOSER	STOP	REMARKS
				WIDTH	HEIGHT	TYPE	MAT'L	FIN.	GLZING		TYPE	MAT'L	FIN.								
1	A	STAIR A	D011	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	NO	1HR	-	-	-	-	-	
1	115	WASHROOM	D012	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	NO	NO	-	-	-	-	-	
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	1830	2150	D-05	-	-	YES	-	-	-	-	-	-	-	-	-	-	INTERIOR TRAFFIC DOOR	
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	
2	208	ELEC	D110	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	1HR	-	-	-	-	-	
2	206	WC	D111	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	-	-	-	-	-	-	
2	204	PRIVATE OFFICE	D112	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	-	-	-	-	-	-	
2	205	SHOWER/WC	D113	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	-	-	-	-	-	-	
2	207	STORAGE	D114	2000	2150	D-01	HM	PT	NO	-	F2	HM	PT	-	-	-	-	-	-	-	
2	201	CORRIDOR	D115	900	2150	D-02	HM	PT	NO	-	F2	HM	PT	-	-	-	-	-	-	-	
2	203	OPEN OFFICE	D116	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	-	-	-	-	-	-	
2	A	STAIR A	D117	1000	2150	D-01	HM	PT	NO	-	F1	HM	PT	-	1HR	-	-	-	-	-	

DOOR LEGEND:
 ALUM ALUMINUM
 ANOD ANODIZED
 CL CLEAR FINISH
 HM HOLLOW METAL
 INSUL INSULATED
 NA NOT APPLICABLE
 PT PAINT
 TG TEMPERED GLASS
 HD WOOD VENEER
 SP SOLID PHENOLIC
 SST STAINLESS STEEL
 *BLACK ANODIZED FINISH TYPICAL UNLESS NOTED OTHERWISE.

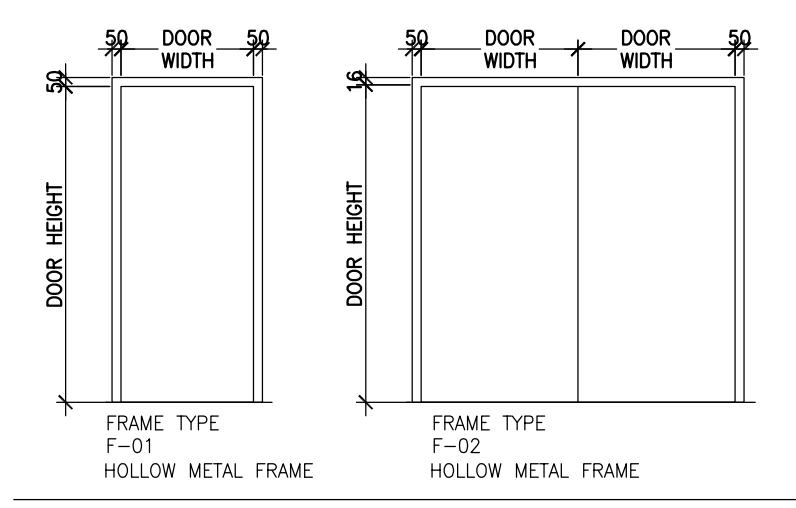
HARDWARE LEGEND:
 AR ADAMS RITE CONTINUOUS HINGE
 CH CONTINUOUS HINGE
 S/W STANDARD WEIGHT BUTT HINGE
 H/W HEAVY WEIGHT BUTT HINGE
 FB FLUSH BOLT (INACTIVE LEAK)

*****REFER TO 4700 FOR ALUMINUM SCREENS AND GLAZING**
 CL CYLINDRICAL LOCK
 DL MORTISE DEADLOCK
 ML MORTISE LOCK
 PP PUSH/PULL
 RM RIM EXIT DEVICE
 SVR SURFACE VERTICAL ROD DEVICE WITH EXTERIOR TRIM

CVR CONCEALED VERTICAL ROD EXIT DEVICE
CONC CONCEALED DOOR CLOSER
REGU SURFACE DOOR CLOSER
COHS CONCEALED OVERHEAD STOP
SOHS SURFACE OVERHEAD STOP



01 DOOR TYPE (N.T.S)



02 FRAME TYPES (N.T.S)

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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			
7			
8			

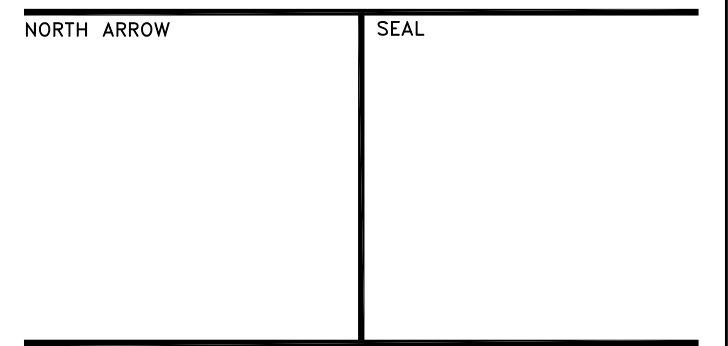
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 e: sayers@apsley.ca



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

DRAWING TITLE
**DOOR SCHEDULE
 AND DETAILS**
 SCALE
NTS
 DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

A700

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.

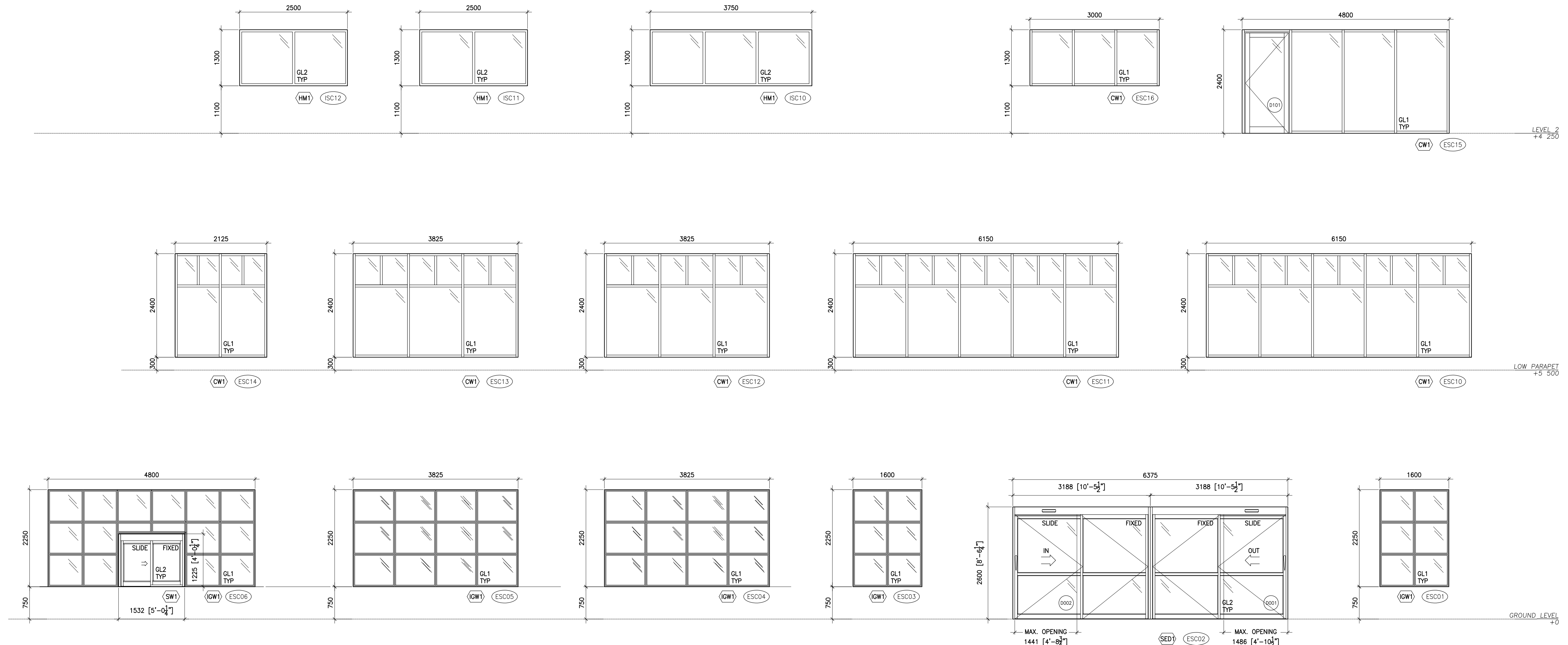
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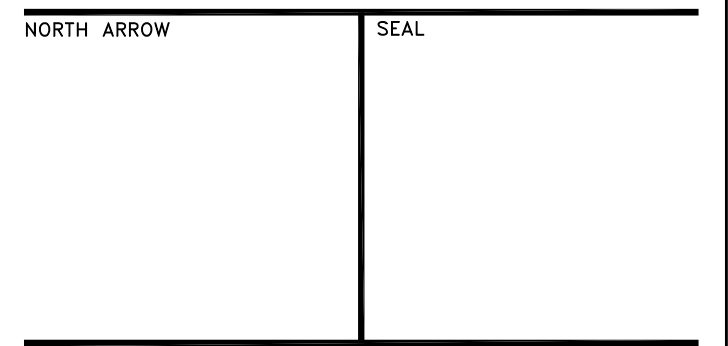


GLAZING SCHEDULE							
GLASS TYPE	LITE TYPE AND THICKNESS		LOW E COATING		CERAMIC COATING		GLAZING NOTE
	OUTER	INNER	TYPE	SURFACE	EX-FR SURFACE	EX-FR SURFACE	
GL1	FT 6mm	FT 6mm	DOUBLE	SLURR			TYPICAL EXTERIOR SOL ARGON-FILLED, BOROFLUOR-FILLED WARM-EDGE SPACER BAR
GL2	FRG-RATED	CERAMIC GLAZING					

FRAME TYPE
 HW1 INTERIOR GLAZED WINDOW
 ALUMINUM SHOWERLINE 870 - THERMALLY BROKEN
 130mm/51mm PREPARED ALUM. SECTIONS
 GLASS: GL1
 COLOUR: CUSTOM (T80)
 CW1 CURTAIN WALL
 ALUMINUM THERMALLY BROKEN
 130mm/51mm PREPARED ALUM. SECTIONS
 PERIMETER WALLINGS AT TOP AND BOTTOM: 150mm CAPPED
 PERIMETER WALLINGS AT JAMB: 150mm CAPPED
 INTERMEDIATE VERTICAL MULLIONS: 150mm CAPPED
 GLASS: GL1
 COLOUR: CUSTOM (T80)
 SD1 AUTOMATIC SLIDING ENTRANCE DOORS
 HOFFER AUTOMATIC - PROFILE SERIES 2021
 SLIDING DOOR SYSTEM WITH ELECTRIC BELT DRIVE OPERATOR
 DOOR TYPE: 310 - 32 & 35
 OPERATE 1-ONED MOTOR/PRESIDENCE DETECTORS AND
 MFC MANUAL LOCKING
 PREPARED COLOUR = CUSTOM (T80)
 SW1 SLIDING SERVICE WINDOW
 HOFFER AUTOMATIC - SERIES 8900
 DOOR TYPE = 31-2
 HESSEL = 150mm LITE-PROFILE
 OPERATOR = REDUCED MANUAL PULL
 LOCK = THUMB LOCK
 PREPARED COLOUR = CUSTOM (T80)
 HW1 HOLLOW METAL FRAMES
 FRG-RATED METAL FRAME AND GLAZING (CGM, WALL FRG)

GLAZING SCHEDULE LEGEND
 FT FULLY TEMPERED DS DOUBLE SAVER
 FRG TYPE: FRG SOLID OPAQUE FRG LAMINATED INTERLAYER: PVB POLYVINYL BUTYRAL
GLAZING NOTES:
 1. GLASS THICKNESS: 6mm MINIMUM AND AS REQUIRED TO SUIT DESIGN REQUIREMENT.
 2. LAMINATED GLASS: GLASS LAYER MINIMUM 3mm THICK UNLESS OTHERWISE NOTED.
 3. DIMENSIONS INDICATED ARE NOMINAL. ALL DIMENSIONS TO BE SITE VERIFIED.
 4. ALL FRAMES TO RECEIVE CURTAIN TO FIT FINISH UNLESS OTHERWISE NOTED.
CURTAINWALL NOTES:
 1. FINISHES INDICATED IN ALUM SECTION AS NECESSARY TO MAINTAIN SECTIONS AS SHOWN.
 REFER TO PROJECT MANUAL AND COLOR SCHEDULE FOR GLAZED ALUM DOORS.
 2. SEE PROJECT MANUAL AND COLOR SCHEDULE FOR GLAZED ALUM DOORS.
 3. DIMENSIONS INDICATED ARE NOMINAL. ALL DIMENSIONS TO BE SITE VERIFIED.
 4. ALL FRAMES TO RECEIVE CURTAIN TO FIT FINISH UNLESS OTHERWISE NOTED.

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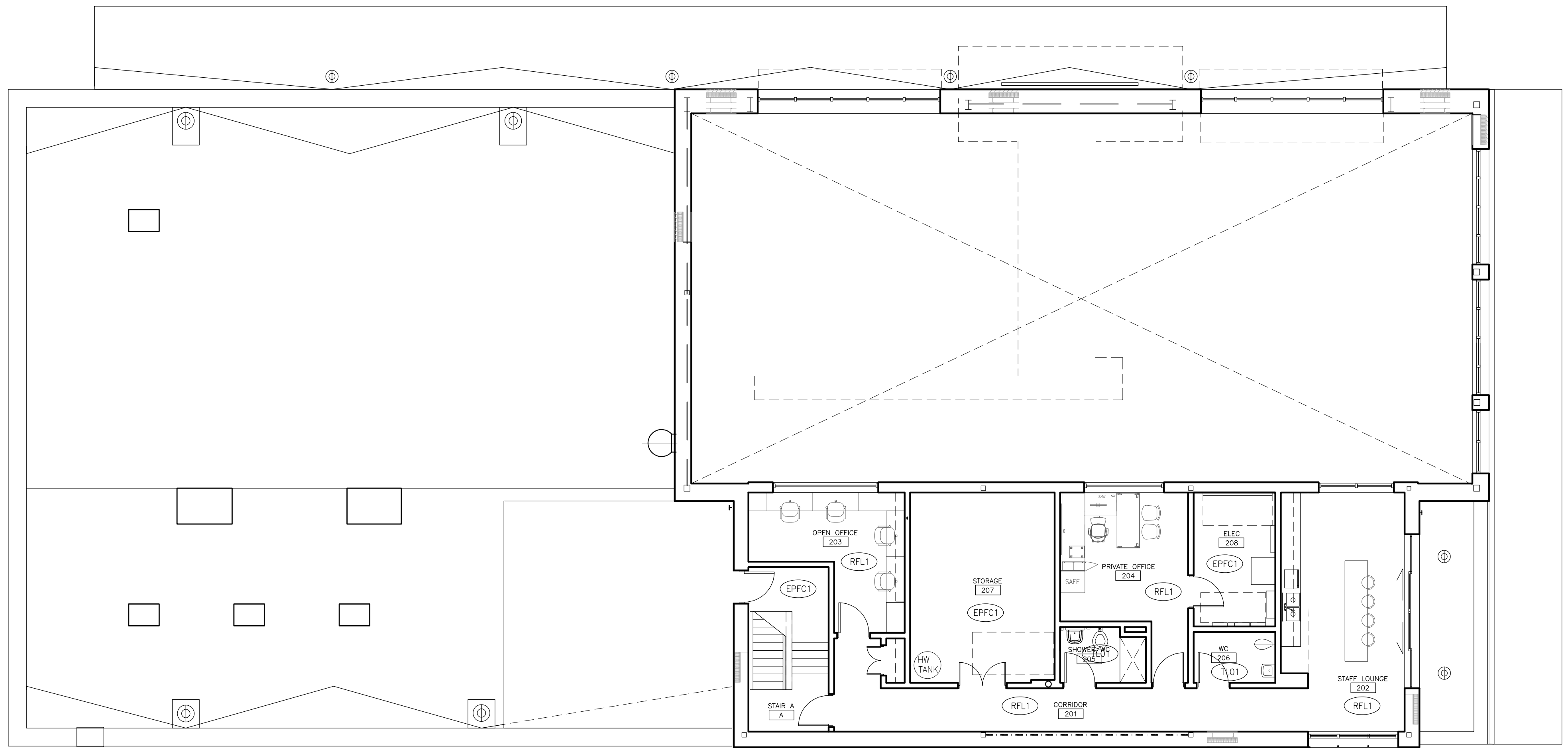


PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
**EXTERIOR & INTERIOR
 SCREEN SCHEDULES**
 SCALE
1:50
 DATE
AUGUST 2021

PROJECT NUMBER
2102
 DRAWING NUMBER

A710

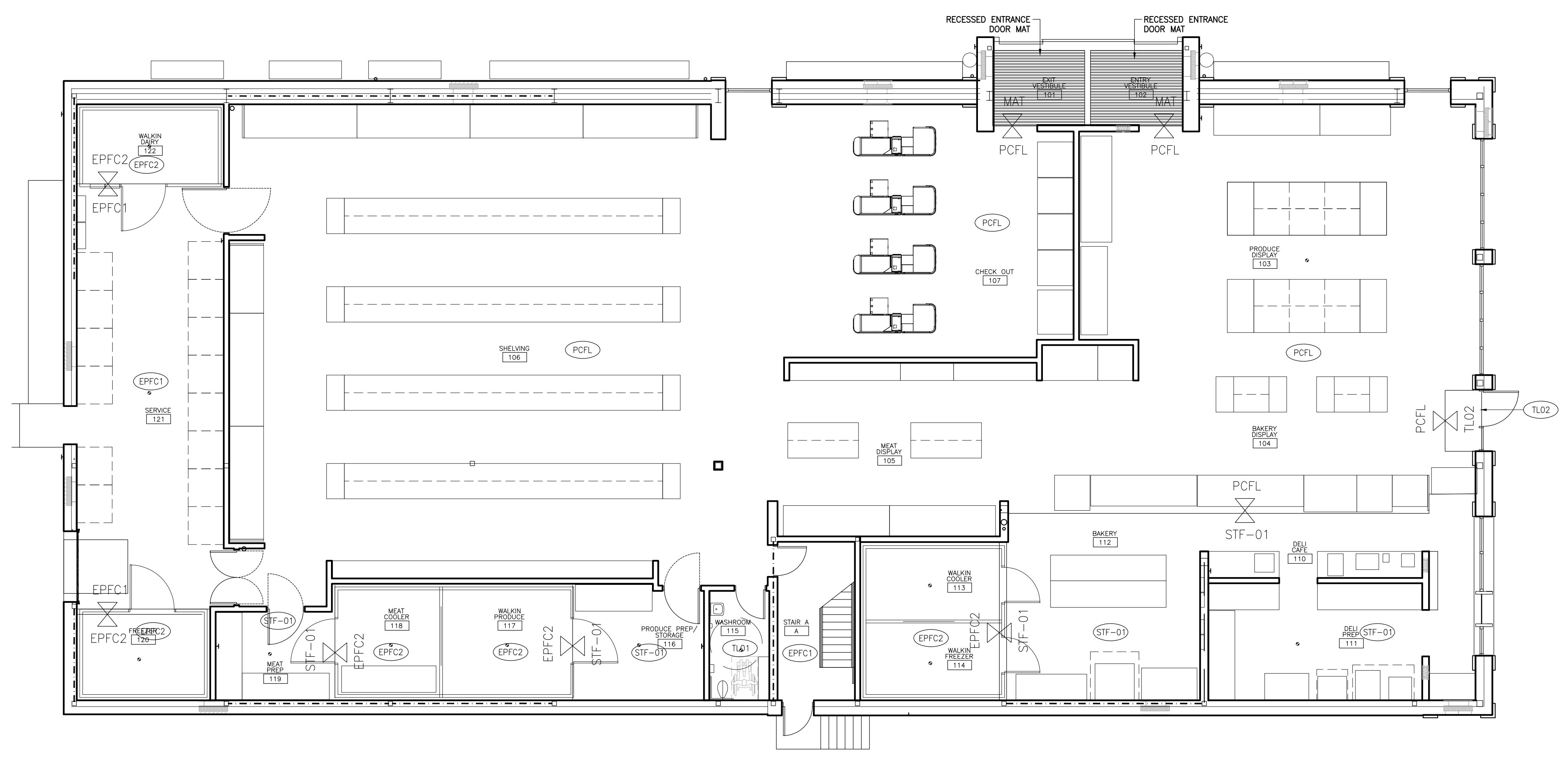


4 LEVEL 2 FINISH PLAN
1:100

INTERIOR FINISHES LEGEND

- (PCFL) POLISHED CONCRETE FLOOR
- (C-WDS) WOOD CEILING PANEL (OSB)
- (WDS1) HARDWOOD VENEER
- (WDS1) SOLID HARDWOOD CEDAR FENCE BOARD STAINED
- (CC1) CEMENT CLADDING - BOARD AND BATTEN TEXTURE
- (A) DECORATIVE WALL PANELING
- (B) CEMENT CLADDING - FLAT PANELS
- (C) CUSTOM TRIMS
- (TL01) FLOOR TILE 300mm X 300mm
- (TL02) FLOOR TILE 25mm HEX
- (TL10) WALL TILE 100mm X 400mm
- (TL11) WALL TILE
- (TL12) WALL TILE 3" X 6"
- (ACT1) ACOUSTIC CEILING TILE 2'X4'
- (SFT-01) SAFETY FLOORING
- (RFL1) RESILIENT FLOOR
- (RB1) BASE
- (EPFC1) EPOXY FLOOR COATING
- (EPFC2) EPOXY FLOOR COATING
- (PT1) PAINT (WHITE)
- (PT2) PAINT (CHARCOAL)
- (PT3) PAINT (TBD)
- (WP1) WALL PROTECTION PANEL

2 INTERIOR FINISH LEGEND



3 GROUND LEVEL FINISH PLAN
1:100

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	CEILING	WALLS				COMMENTS
					NORTH	EAST	SOUTH	WEST	
002/000	LEVEL								
101	EXIT VESTIBULE	MAT	A	WDS-1	A	GL	-	GL/PT1	
102	ENTRY VESTIBULE	MAT	A	WDS-1	-	GL	A	GL/PT1	
103	PRODUCE DISPLAY	RFC	A/RB1	EXP	PT1	GL	A/PT1	A/PT1	
104	BAKERY DISPLAY	PCFL	A/RB1	EXP	-	PT1	A/PT1	CC1/C-WDS1	
105	MEAT DISPLAY	PCFL	RB1	EXP	PT1	PT1	PT1	CC1/GWB	
106	SHELVING	PCFL	RB1	EXP	PT1	PT1	PT1	SWB	
107	CHECK OUT	PCFL	A/RB1	EXP	PT1	A/PT1	PT1	SWB	
110	DELI CASE	SFT01	SFT01	C-WDS1/TL11	TL10	TL10	TL10	TL10	
111	DELI PREP	SFT01	SFT01	GWB	TL10	TL10	TL10	TL10	
112	BAKERY	SFT01	SFT01	C-WDS1/TL11	PT1	PT1	PT1	PT1	
113	WALKIN COOLER	EPFC2	WP1	FRZ/EXP	WP1	WP1	WP1	WP1	
114	WALKIN FREEZER	EPFC2	WP1	FRZ/EXP	WP1	WP1	WP1	WP1	
115	WASHROOM	TL01	RB1	GWB	PT1	PT1	PT1	PT1	
116	PRODUCE PREP/STORAGE	SFT01	WP1	EXP	WP1	WP1	WP1	WP1	
117	WALKIN PRODUCE	EPFC2	WP1	FRZ/EXP	WP1	WP1	WP1	WP1	
118	MEAT COOLER	EPFC2	WP1	FRZ/EXP	WP1	WP1	WP1	WP1	
119	MEAT PREP	SFT01	WP1	EXP	WP1	WP1	WP1	WP1	
120	FREEZER	EPFC2	WP1	FRZ/EXP	WP1	WP1	WP1	WP1	
121	SERVICE	EPFC	WP1	EXP	WP1	WP1	WP1	WP1	
122	WALKIN DAIRY	EPFC2	WP1	FRZ/EXP	WP1	WP1	WP1	WP1	
A	STAIR A	EPFC	RB1	EXP	RB1	RB1	RB1	RB1	
LEVEL 2									
201	CORRIDOR	PCFL	RB1	GWB	PT1	PT1	PT1	PT1	
202	STAFF LOUNGE	RFL1	RB1	GWB	PT1/TL12	PT1	PT1	PT1	
203	OPEN OFFICE	RFL1	RB1	GWB	PT1	PT1	PT1	PT1	
204	PRIVATE OFFICE	RFL1	RB1	GWB	PT1	PT1	PT1	PT1	
205	SHOWER/WC	TL01	TL10	GWB/TL10	TL10/GWB	TL10/GWB	TL10/GWB	TL10/GWB	
206	WC	TL01	RB1	GWB	GWB	GWB	GWB	GWB	
207	STORAGE	EPFC	RB1	EXP	GWB	GWB	GWB	GWB	
208	ELECTRICAL ROOM	EPFC	RB1	EXP	GWB	GWB	GWB	GWB	

1 ROOF FINISH SCHEDULE

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REVISIONS AND ISSUES

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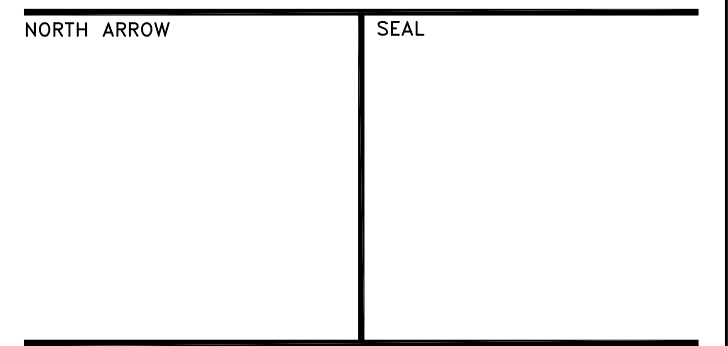
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PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
**FINISH FLOOR PLANS
AND SCHEDULE**

SCALE
1:100

DATE
AUGUST 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A800

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
 - Rd = 1.5
 - Ro = 1.3
 - Fa = 1.24
 - Fv = 1.55
 - Mv = 1.0
 - THE SEISMIC HAZARD INDEX FOR THIS SITE IS:
 - $I_E Fa Sa(0.2) = 0.24$
 - 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:

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

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:

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

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

WHERE

k = ## IS THE DESIGN PEAK HORIZONTAL GROUND ACCELERATION COEFFICIENT (Fa x PGA)
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 $S_s = 3.1 \text{ kPa}$ AND $S_r = 0.4 \text{ kPa}$.
 - 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.

030000 CONCRETE**1. MATERIALS****a) 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			TOPPING 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 @ 11L/cu.m. DOSAGE OR APPROVED EQUIVALENT
 - MAX. 25kg CEMENT/cu.m.
- REINFORCEMENT:
 - CONFORM TO THE REQUIREMENTS OF CSA STANDARD G30 SERIES.
 - REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 400 \text{ MPa}$, AND WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF $f_y = 380 \text{ MPa}$, 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

c) 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 MEMBRANCE) 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**1. MATERIALS**

- WIDE FLANGE SHAPES - CONFORM TO THE REQUIREMENTS OF ASTM A992/A992M, $F_y = 345 \text{ MPa}$
- 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]
- 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.
- 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) 905-564-6555, 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

2. 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 ABUTTING WALLS. PROVIDE TEMPORARY BRACING UNTIL WALLS ARE BUILT TIGHT TO COLUMNS.
- PROVIDE FRAMING AROUND ALL OPENINGS IN METAL DECK AS SPECIFIED. REFER TO TYPICAL DETAIL 0504 FOR DETAILS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 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, 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 UNPAINTED.
- 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**1. 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 ZF75 FOR INTERIOR DECKING NOT EXPOSED TO VIEW AND INTERIOR DECKING WITH FIELD APPLIED PAINT SYSTEM.
- LACEMENT OF EXISTING DECK IS REQUIRED.

2. 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 GALVAON 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.

310000 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.		
ISSUE: ISSUED FOR TENDER		
4	2021/08/30	ISSUED FOR TENDER
3	2021/08/25	ISSUED FOR TENDER REVIEW
2	2021/08/11	ISSUED FOR COORDINATION
1	2021/07/16	Issued for Class B Costing
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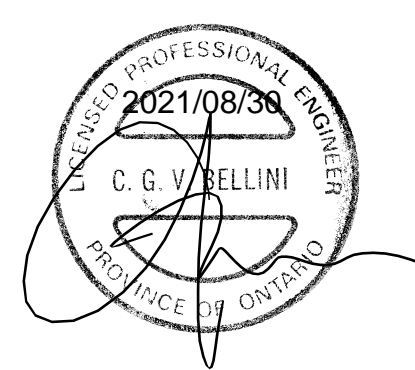
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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

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

SHEET TITLE:
GENERAL NOTES

S001

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ISSUE:
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MARK	DATE	DESCRIPTION
4	2021/08/30	ISSUED FOR TENDER
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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
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SEAL:



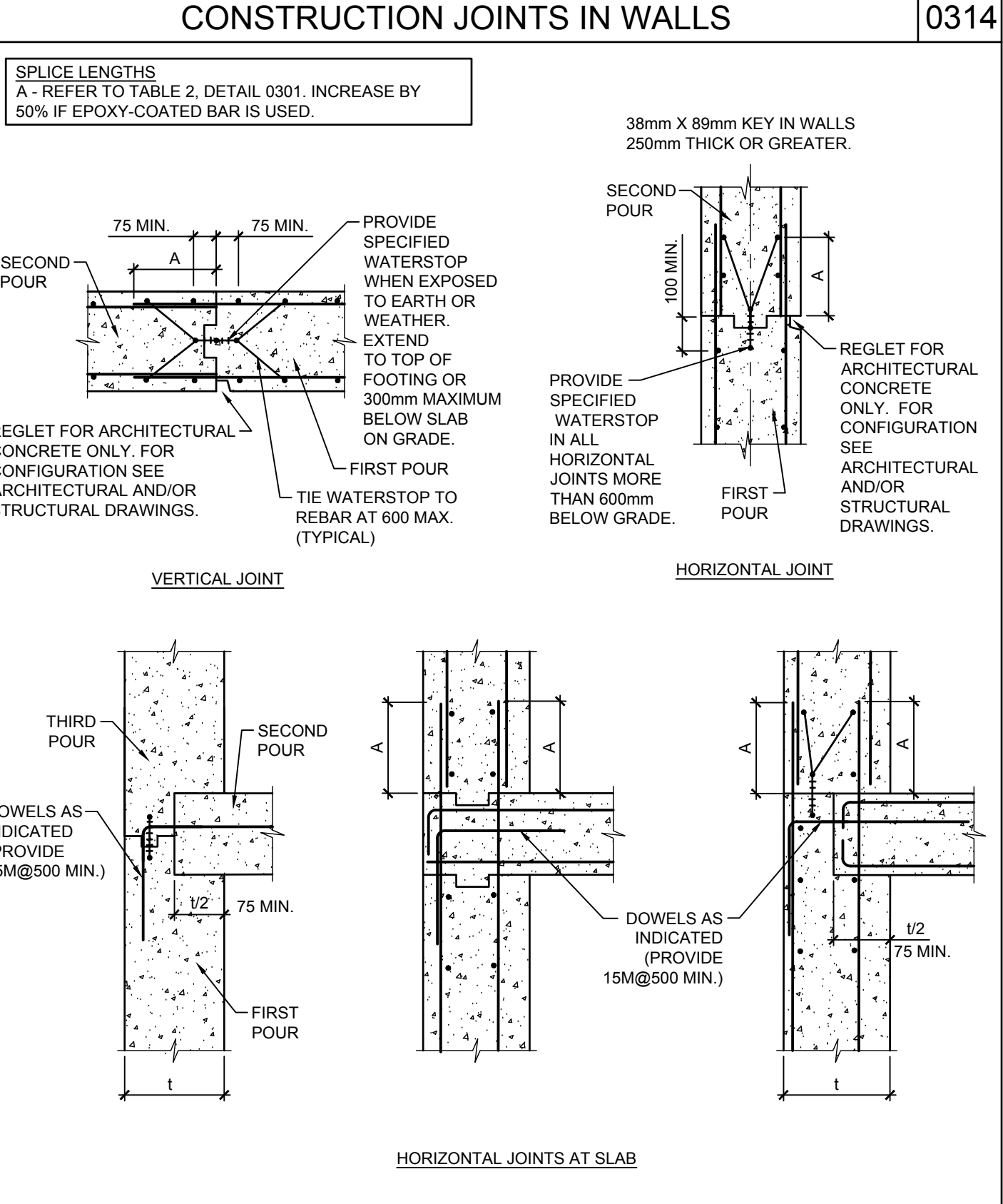
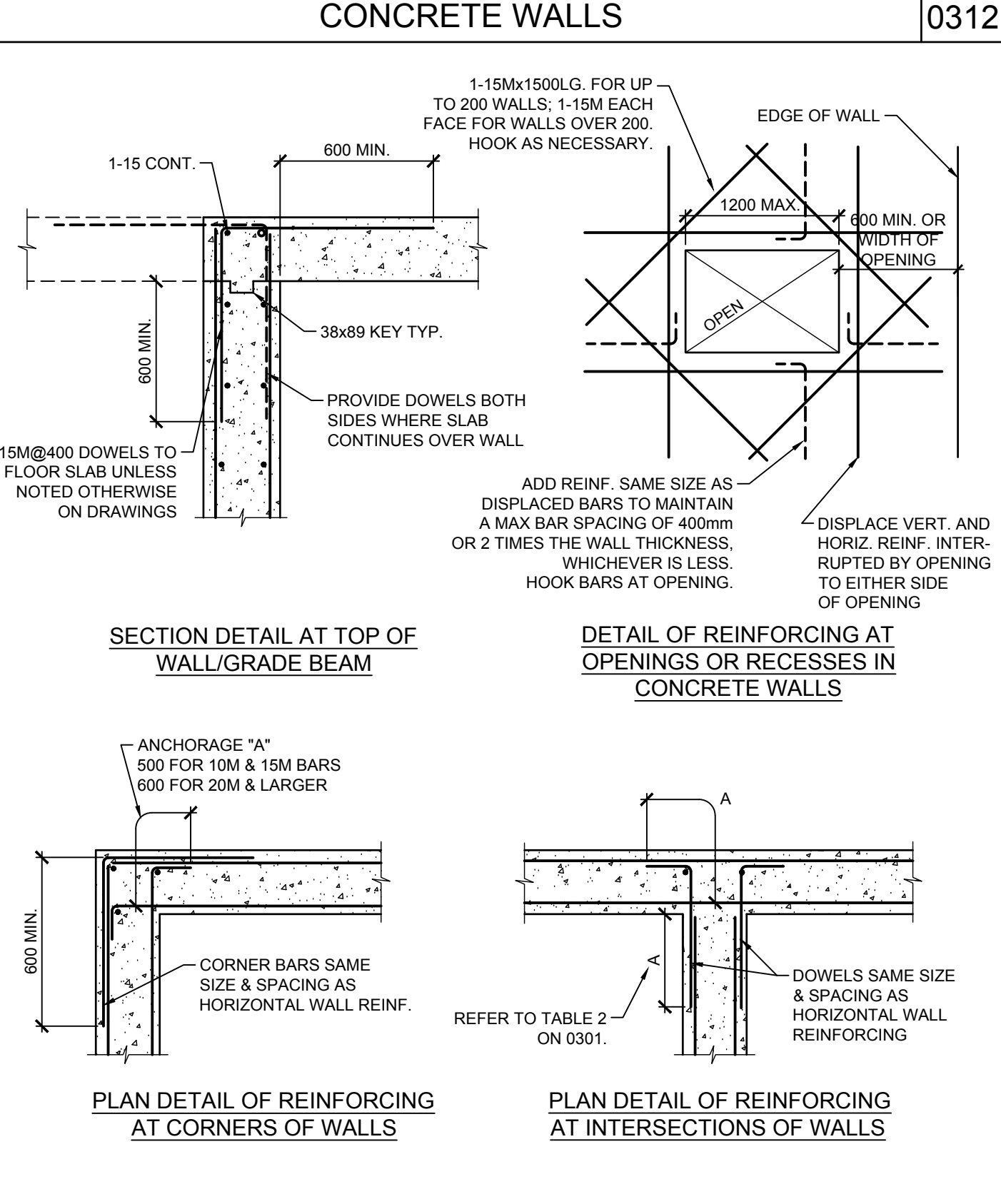
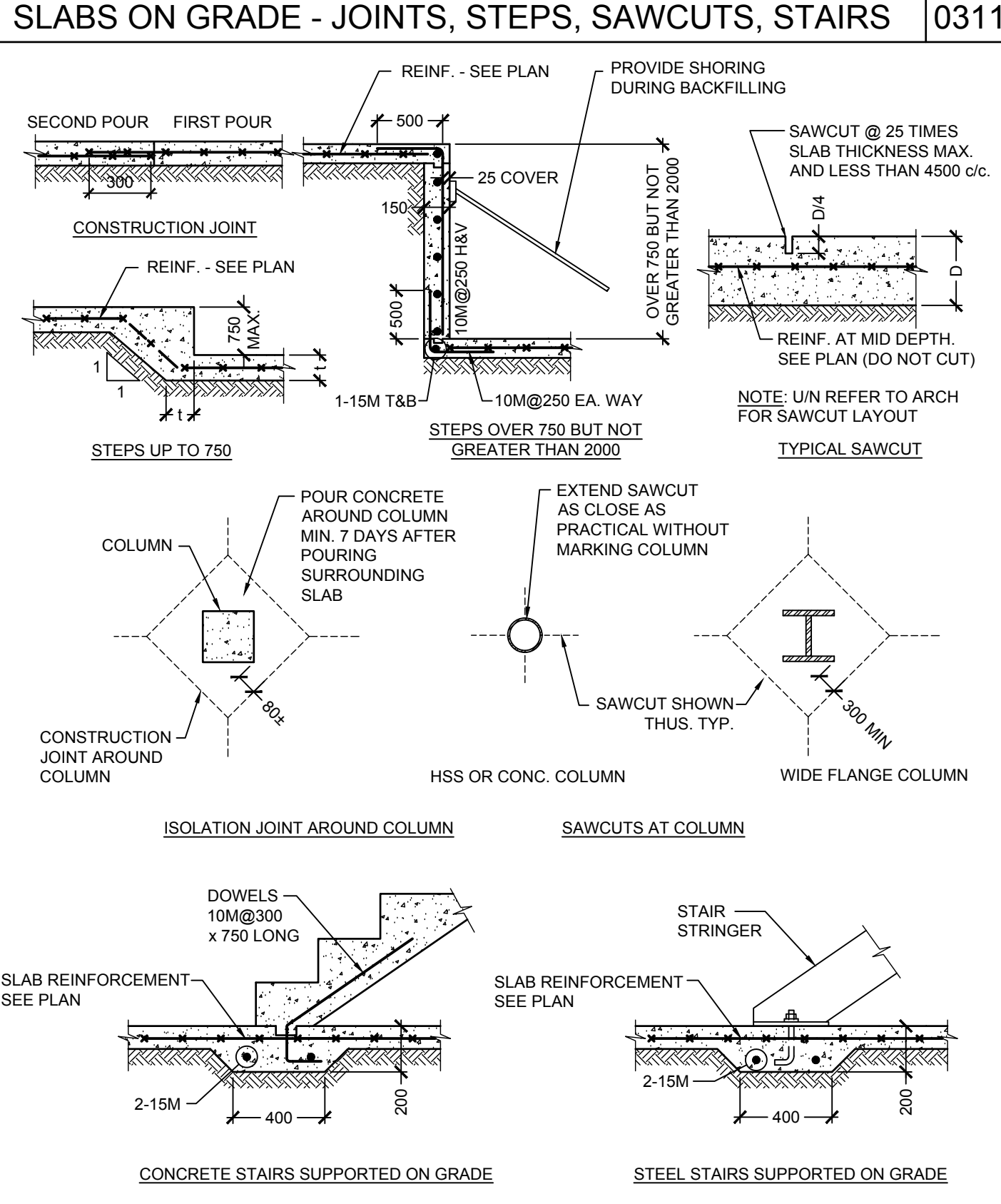
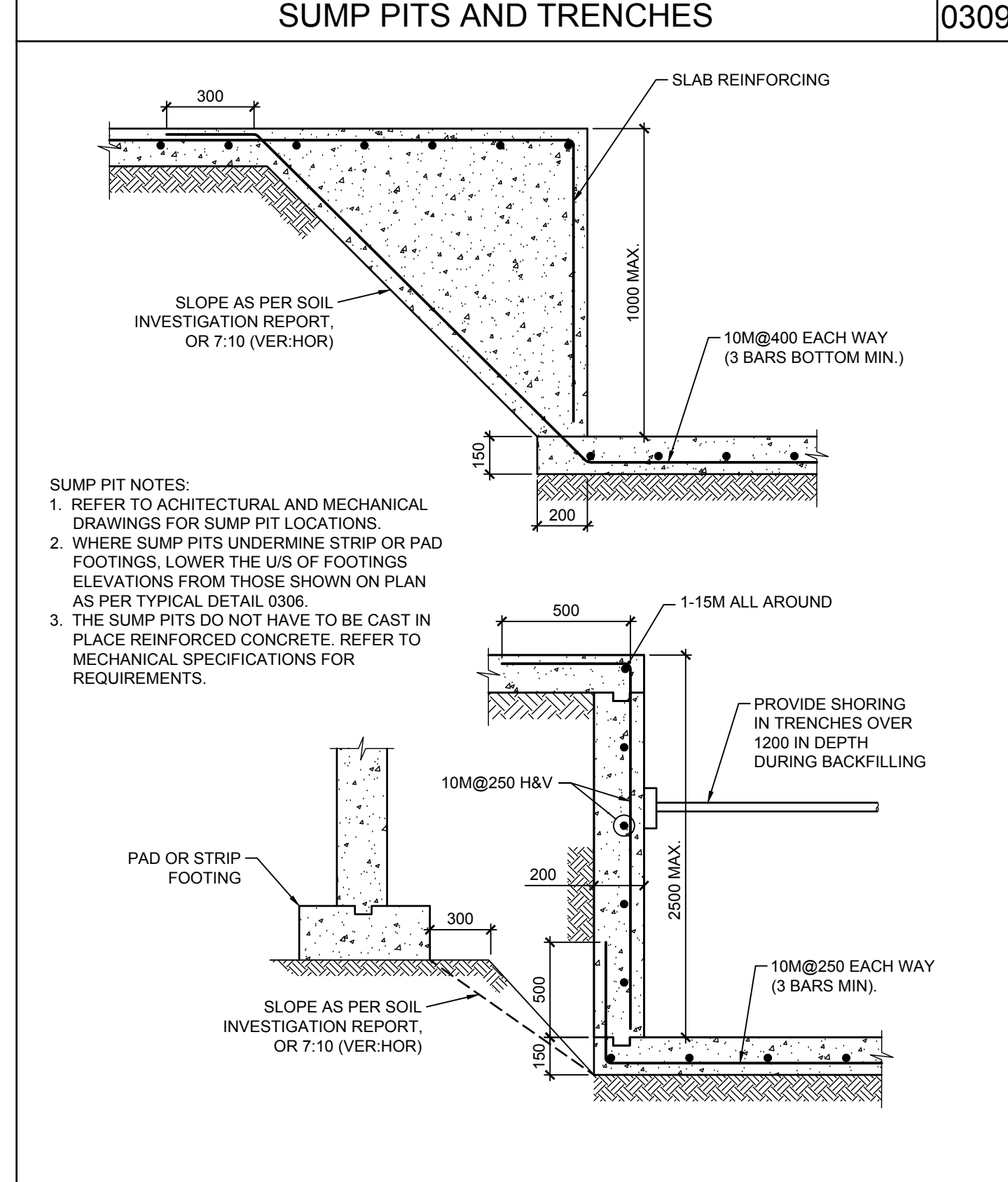
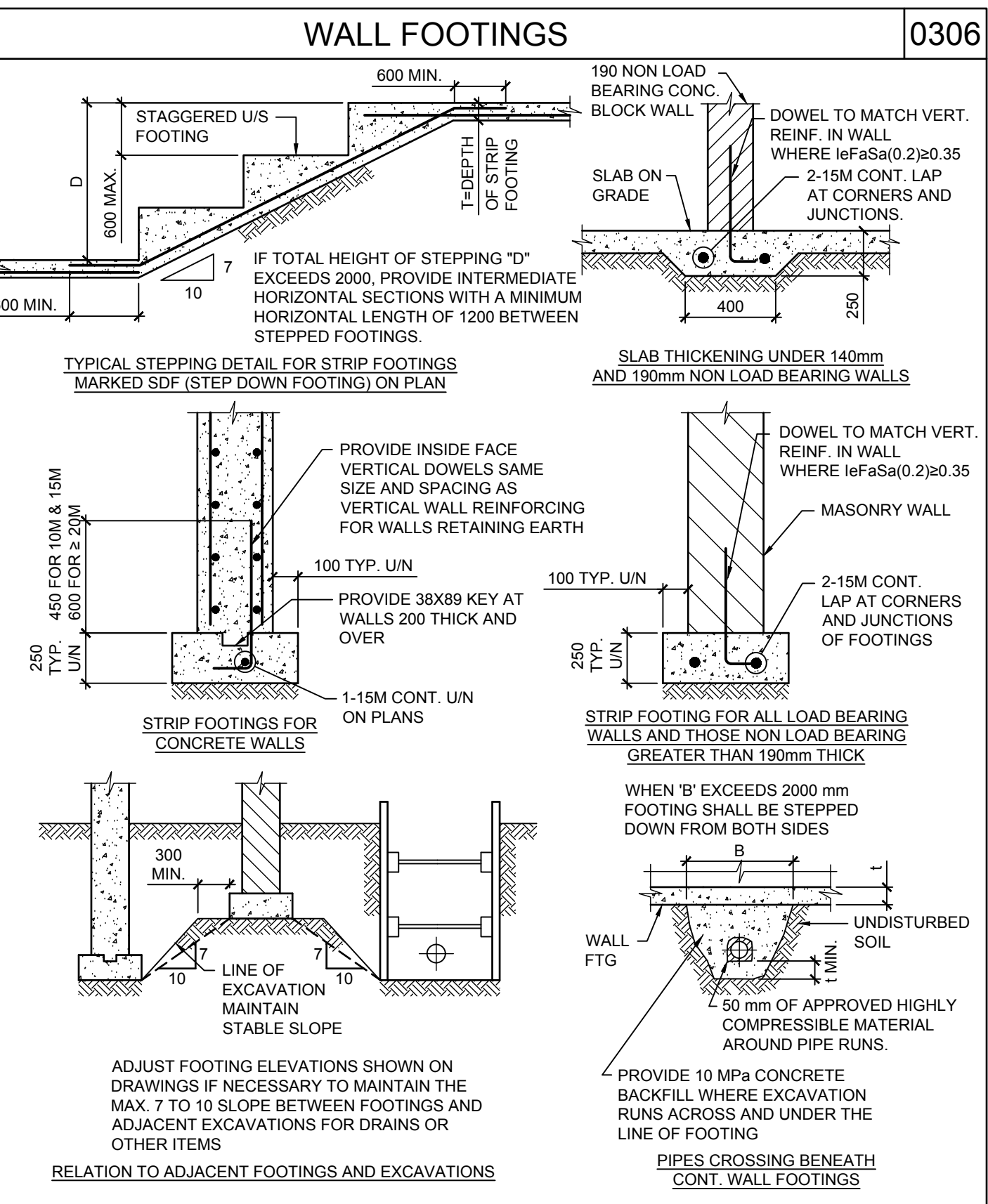
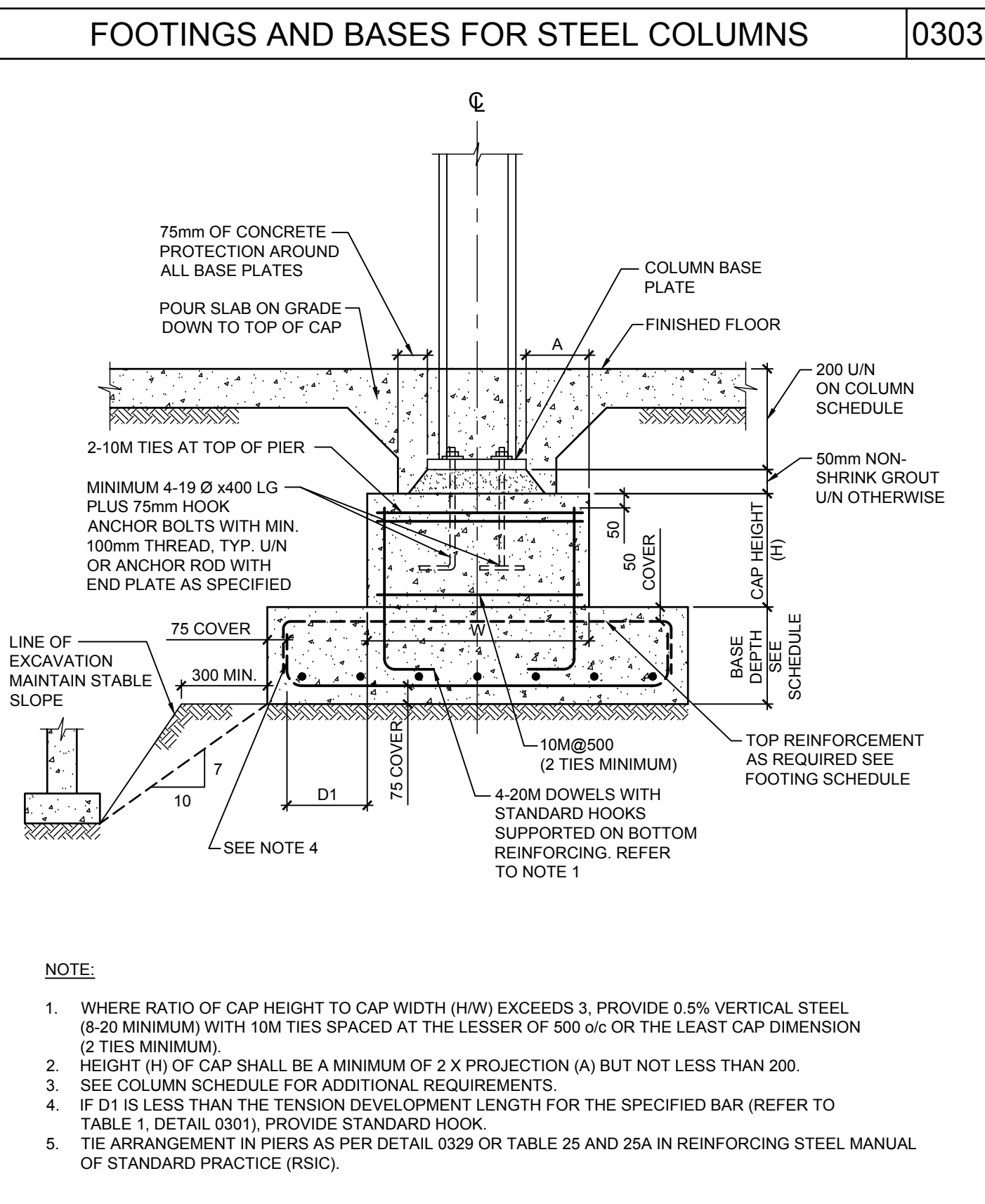
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SHEET TITLE:
TYPICAL DETAILS

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	REINF = REINFORCE, REINFORCEMENT	
ASL = ADDITIONAL SNOW LOAD	HEF, H EF = HORIZONTAL EACH FACE	REQ'D = REQUIRED	
@ = AT	HEE = HOOKED EACH END	REV = REVISION, REVISED	
B = BOTTOM	HF = FACTORED HORIZONTAL	R/W, R/W = REINFORCED WITH	
BEW = BOTTOM EACH WAY	HSC = FORCE, KN	SECT = SECTION	
BLL = BOTTOM LOWER LAYER	INT = INTERIOR	SOG = STEP DOWN FOOTING	
BUL = BOTTOM UPPER LAYER	IF = INSIDE FACE	SL = SLAB	
BLDG = BUILDING	INT = INTERIOR	SOG = SLAB ON GRADE	
BM = BEAM	JT = JOINT	SPECS = SPECIFICATIONS	
BPL = BASE OR BEARING PLATE	kN = KILONEWTON	STD = STANDARD	
BSMT = BASEMENT	kN/m = KILONEWTON PER METRE	SO = SQUARE	
c/c, o/c = CENTRE TO CENTRE	kg = KILOGRAM	STRUCT = STRUCTURAL	
C/W = COMPLETE WITH	kN.m = KILONEWTON METRES	T = TOP	
C = EPOXY COATED	kN/m ² = KILONEWTON PER METRE	TEW = TOP EACH WAY	
Cf = FACTORED COMPRESSIVE FORCE, KN	kPa = KILOPASCAL	TF = FACTORED TORSIONAL MOMENT, KNm	
CANT = CANTILEVER	LL = LIVE LOAD	TJ = TIE JOIST	
CA = COLUMN ABOVE	LG = LONG	TLL = TOP LOWER LAYER	
CB = COLUMN BELOW	LLV = LONG LEG VERTICAL	TUL = TOP UPPER LAYER	
COL = COLUMN	LLH = LONG LEG HORIZONTAL	TEMP = TEMPERATURE	
CONC = CONCRETE	LLV = LONG LEG VERTICAL	TYP = TYPICAL	
CONSTR = CONSTRUCTION	LLH = LONG LEG HORIZONTAL	UL = UPPER LAYER	
CJ = CONSTRUCTION JOINT	MAX = MAXIMUM	UN = UNLESS OTHERWISE NOTED	
CONT = CONTINUOUS	MC, M = MOMENT CONNECTION	U/S = UNDERSIDE	
DET = DETAIL	MECH = MECHANICAL	VI = FACTORED SHEAR FORCE, KN OR	
DIAG = DIAGONAL	MEZZ = MEZZANINE	VF, V EF = FACTORED VERTICAL FORCE, KN	
DIA, Ø = DIAMETER, BAR	MIN = MINIMUM	VBR = VERTICAL BRACING	
DIAM, Ø = DIAMETER, BAR	MISC = MISCELLANEOUS	VSC = VERTICALLY SLOTTED CONNECTION	
DIM = DIMENSION	MIDDLE = MIDDLE LAYER	WPL = WALL PLATE	
DJ = DOUBLE JOIST	mm = MILLIMETRE	WWF = WELDED WIRE FABRIC	
DO = DITTO	MOM = MOMENT	WWM = WELDED WIRE MESH	
DL = DEAD LOAD	m = METRE, METRIC	W/w, w/ = WITH	
DWG(S) = DRAWING(S)	Mpa = MEGAPASCAL	wd, wl = UNIFORMLY DISTRIBUTED LOADS	
DWL(S) = DOWEL(S)	Mix = FACTORED BENDING MOMENT ABOUT X-AXIS, KNm		
EA = EACH	Mfy = FACTORED BENDING MOMENT ABOUT Y-AXIS, KNm		
EF = EACH FACE	N = NEWTONS		
EW = EACH WAY	NIC = NOT IN CONTRACT		
EL = ELEVATION	NF = NEAR FACE		
ELECT = ELECTRICAL	NTS = NORTH-SOUTH		
ELEV = ELEVATOR	NTS = 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	PL = PLATE		
EXT = EXTERIOR	PC = PRECAST		
FF = FAR FACE	PROJ = PROJECTION		
FDN = FOUNDATION			
FL = FINISHED			
FLOOR = FLOOR			
FTG = FOOTING			

REINFORCEMENT DEVELOPMENT LENGTHS							0301	
TABLE 1 - TENSION DEVELOPMENT (CLASS A) LENGTH (mm)							TABLE 2 - TENSION LAP SPICE (CLASS B) LENGTH (mm)	
BAR SIZE	20MPa	25MPa	30MPa	35MPa	40MPa	45MPa		
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								
TABLE 3 - COMPRESSION DEVELOPMENT LENGTH (mm)								TABLE 4 - COMPRESSION LAP SPICE LENGTH (mm)
BAR SIZE	20MPa	25MPa	30MPa					
10	210	200	200					
15	320	290	280					
20	430	380	350					
25	540	480	440					
30	640	580	530					
35	750	670	620					
45	970	860	790					
55	1180	1060	970					
TOP BAR VALUES ARE 1.3x THE ABOVE LENGTH INDICATED FOR ALL SLABS GREATER THAN 325mm IN THICKNESS								
TABLE 5 - DEVELOPMENT LENGTH (mm) FOR STANDARD HOOKS							TABLE 6 - STANDARD HOOK DIMENSION FOR BLACK REINFORCING	
BAR SIZE	20MPa	25MPa	30MPa	35MPa	40MPa	45MPa		
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		
FOR 35M OR SMALLER BARS WHERE THE SIDE COVER IS NOT LESS THAN 30mm AND FOR 30M HOOKS 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.								



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Do not scale this drawing.

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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

SEAL:

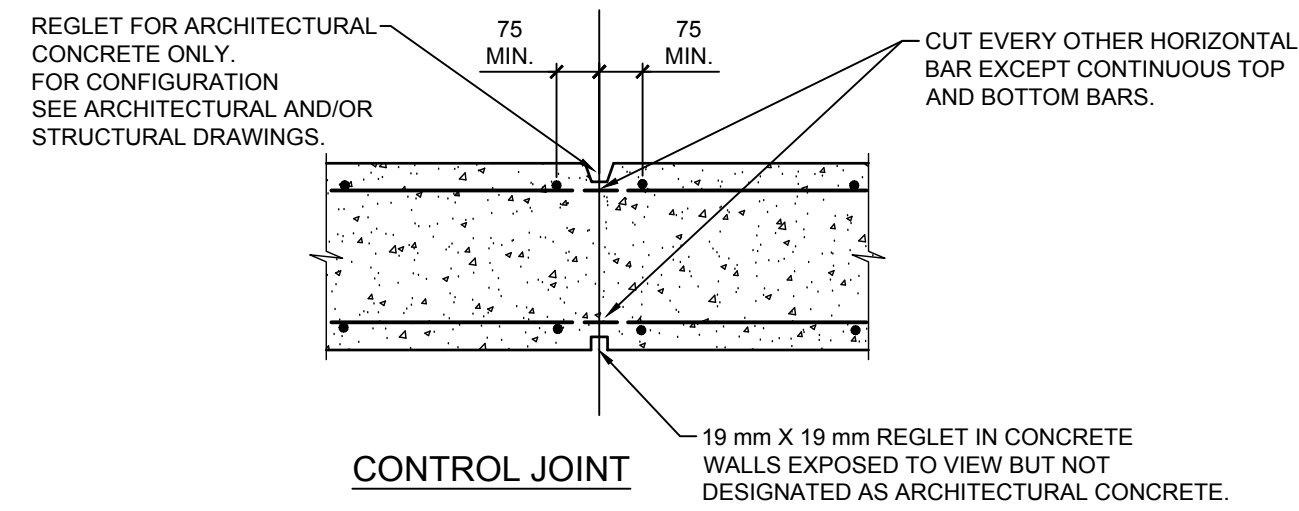


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SCALE: CHECKED: IFM
PROJECT NUMBER: 210112

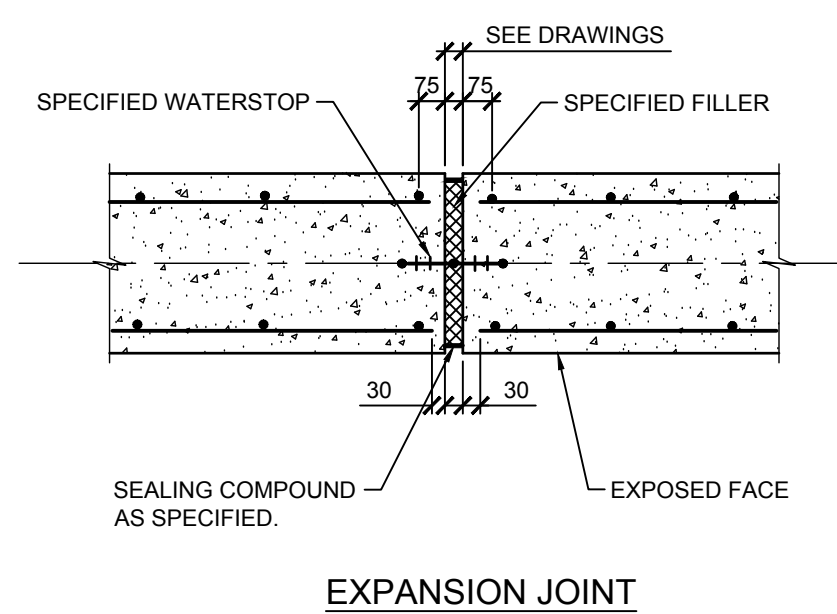
SHEET TITLE:
TYPICAL DETAILS

S003

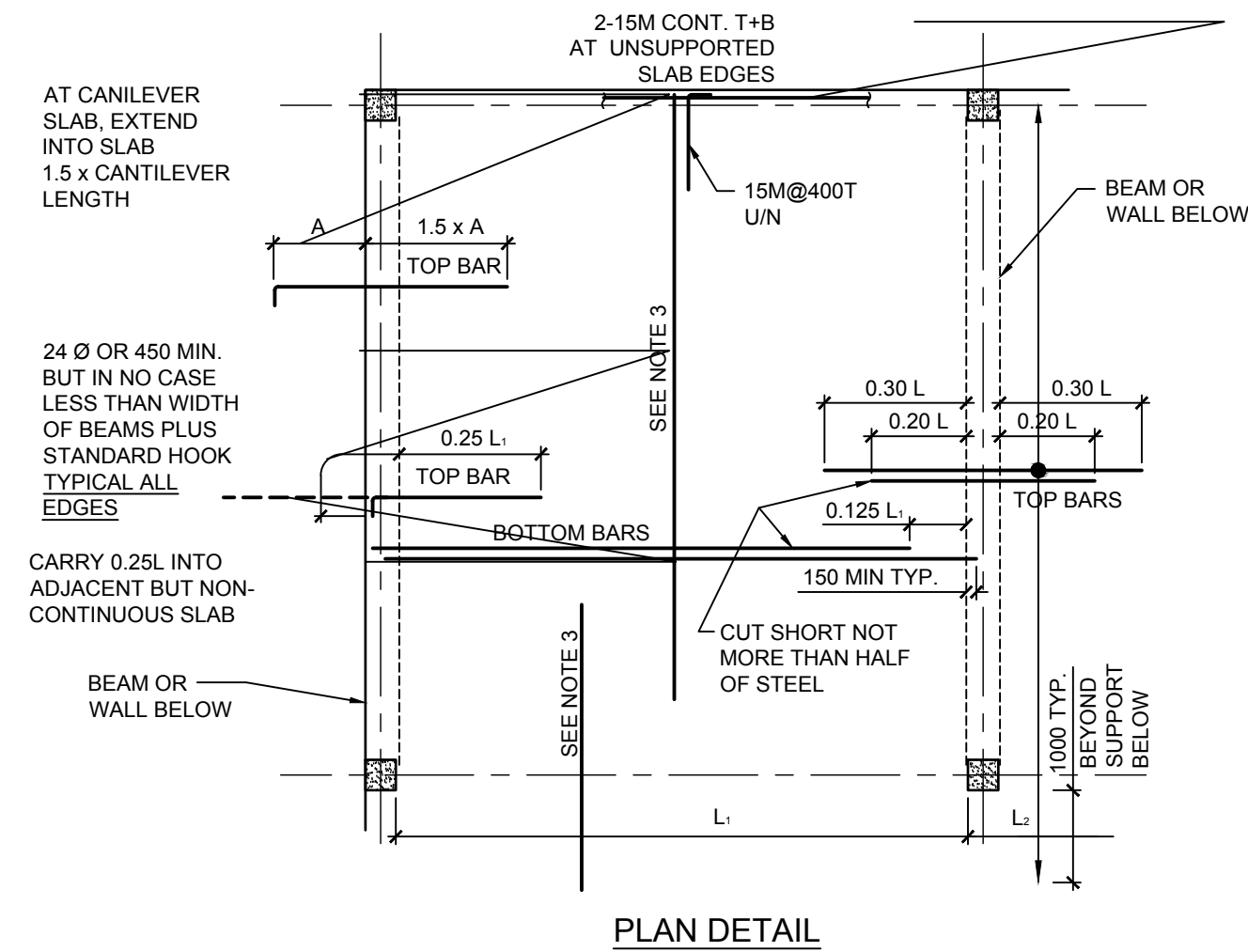
CONTROL AND EXPANSION JOINTS IN CONCRETE WALLS 0315



- 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.



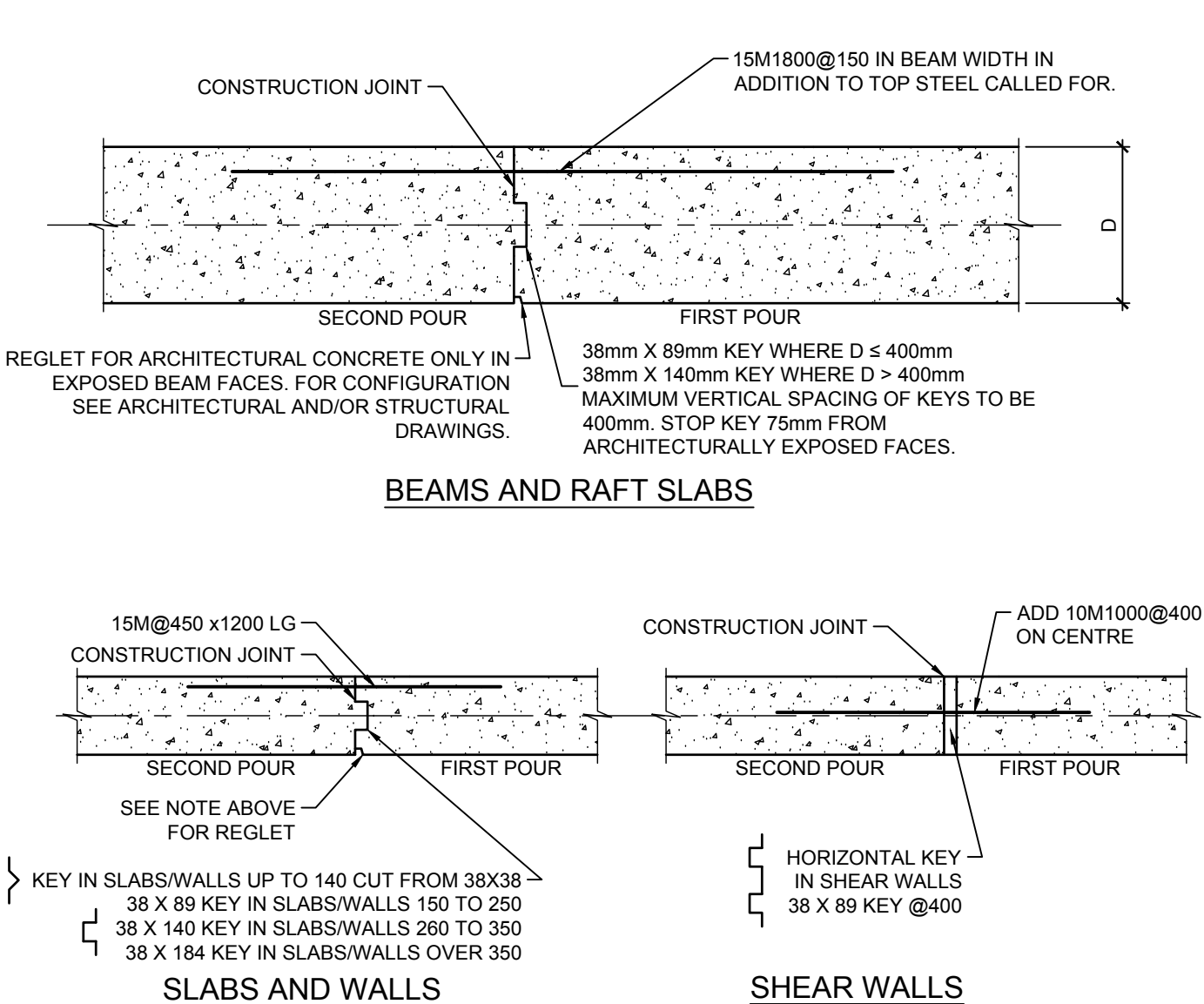
ONE-WAY SLABS 0317



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 @ 450	15 @ 350
250	15 @ 400	20 @ 500
275	15 @ 350	20 @ 400
300	20 @ 500	20 @ 400

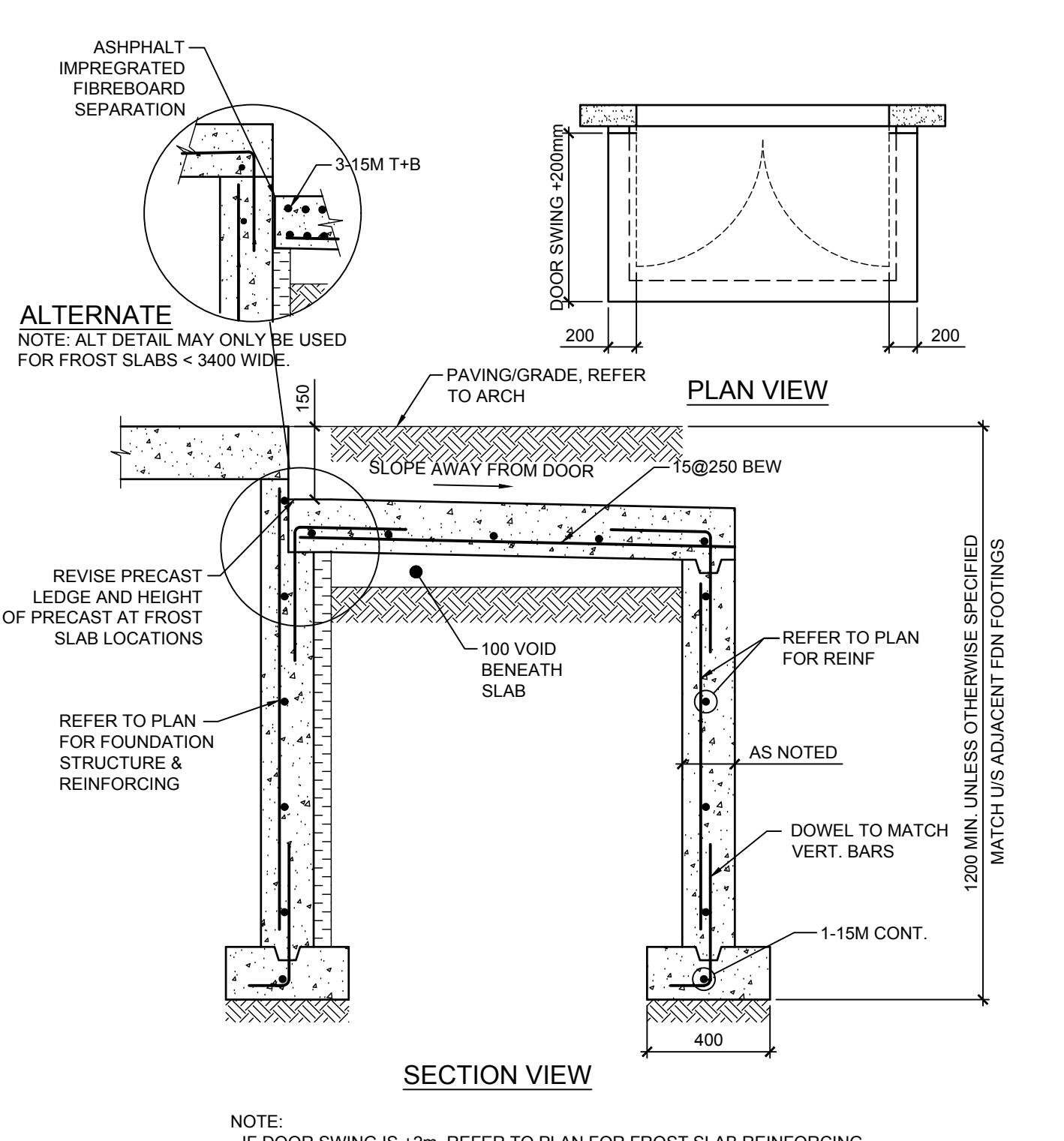
- NOTES:
- TOP BARS SHALL BE CARRIED 24 Ø INTO THE SUPPORT OR HOOKED AS SHOWN DOTTED.
 - SUPPORT ALL BARS IN ACCORDANCE WITH THE RSIC MANUAL OF STANDARD PRACTICE USING REBAR OR PLASTIC CHAIRS AND BOLSTERS ONLY.
 - L IS GREATER OF L AND L.
 - IN ALL ONE WAY SLABS PROVIDE TEMPERATURE REINFORCEMENT PERPENDICULAR 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

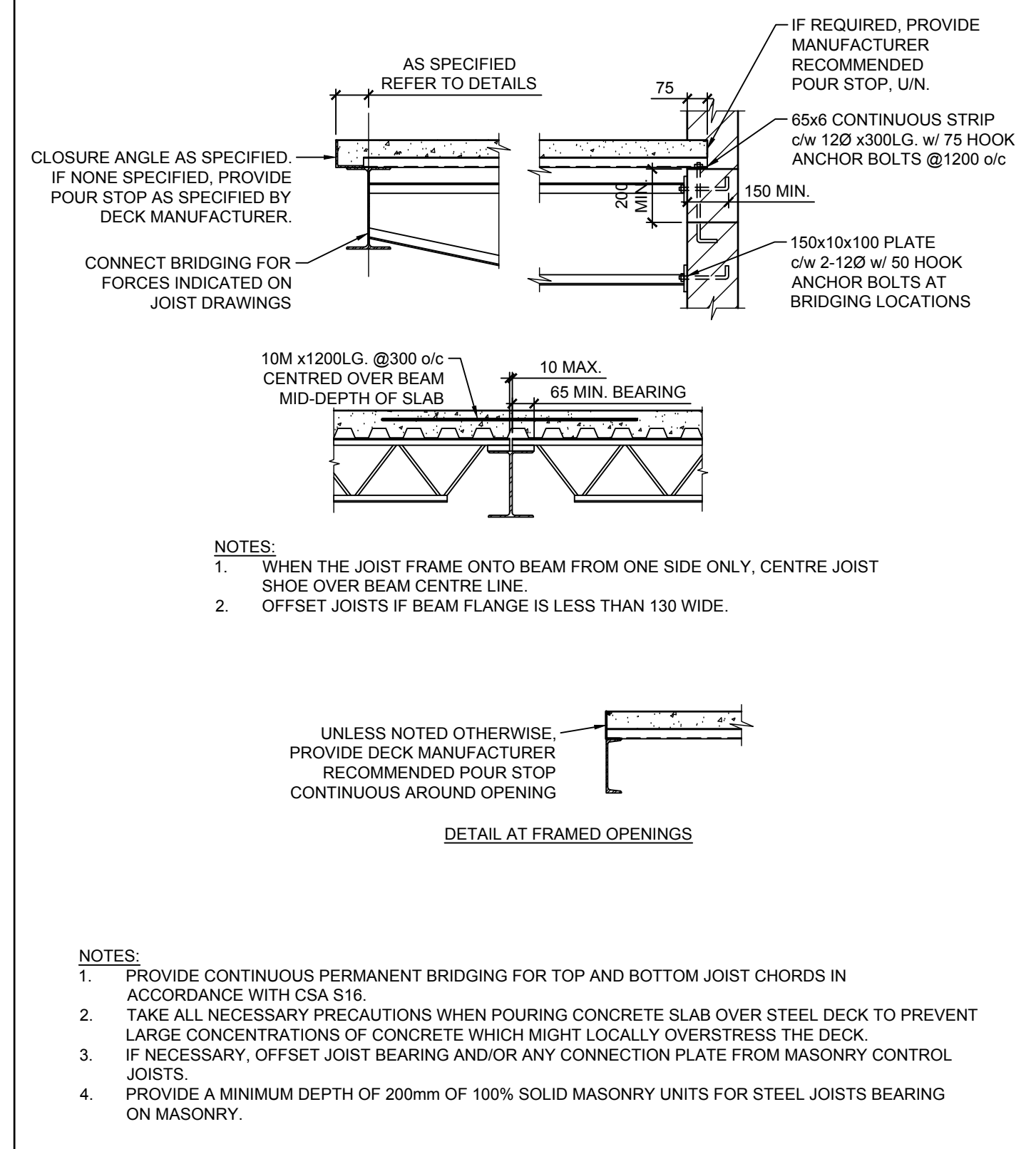


- NOTES:
- SUBMIT CONSTRUCTION JOINT SHOP DRAWINGS FOR REVIEW BY CONSULTANT.
 - EXTEND NORMAL TOP AND BOTTOM REINFORCEMENT THROUGH JOINT FOR FULL LENGTH AS SHOWN ON DRAWINGS, SCHEDULES AND TYPICAL DETAILS.
 - CONSTRUCTION JOINTS TO BE LOCATED AT MIDDLE THIRD OF SPAN.
 - CONSTRUCTION JOINTS IN PAD FOOTINGS,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

FROST SLABS 0355A

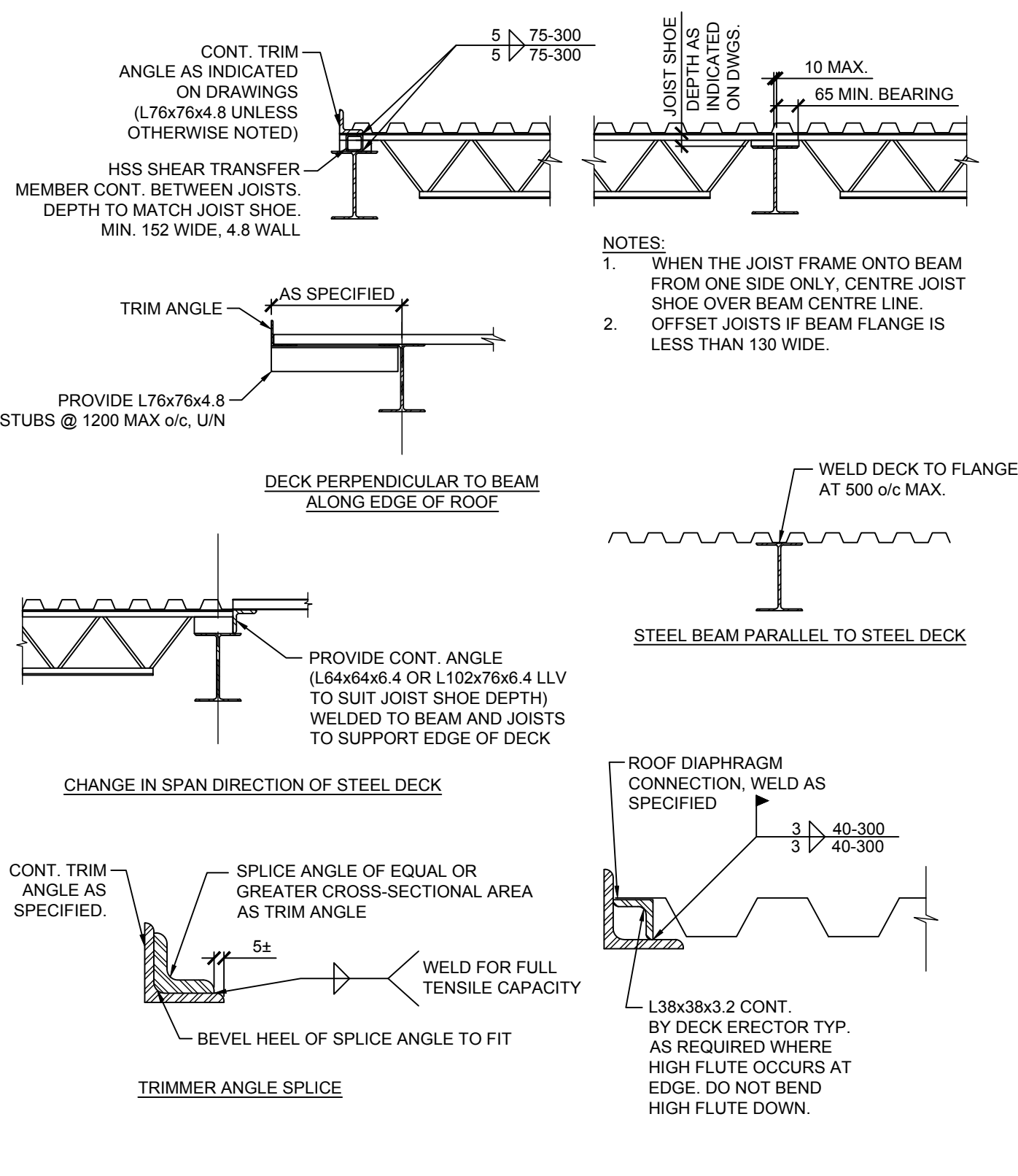


CONCRETE SLAB ON STEEL DECK FRAMING DETAILS 0501

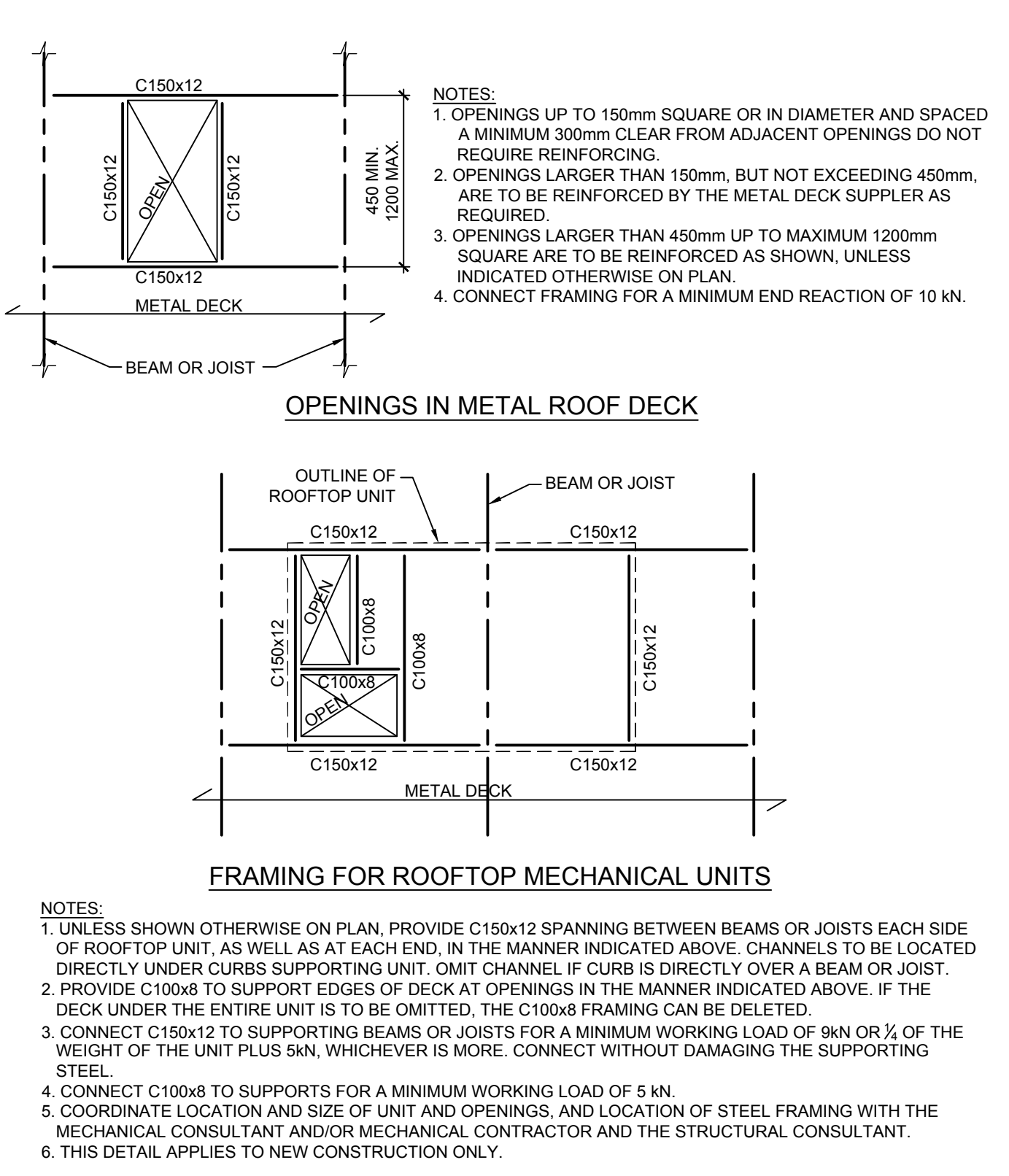


- NOTES:
- PROVIDE CONTINUOUS PERMANENT BRIDGING FOR TOP AND BOTTOM JOIST CHORDS IN ACCORDANCE WITH CSA S16.
 - TAKE ALL NECESSARY PRECAUTIONS WHEN POURING CONCRETE SLAB OVER STEEL DECK TO PREVENT LARGE CONCENTRATIONS OF CONCRETE WHICH MIGHT LOCALLY OVERSTRESS THE DECK.
 - IF NECESSARY, OFFSET JOIST BEARING AND/OR ANY CONNECTION PLATE FROM MASONRY CONTROL JOISTS.
 - PROVIDE A MINIMUM DEPTH OF 200mm OF 100% SOLID MASONRY UNITS FOR STEEL JOISTS BEARING ON MASONRY.

STEEL DECK FRAMING DETAILS 0503

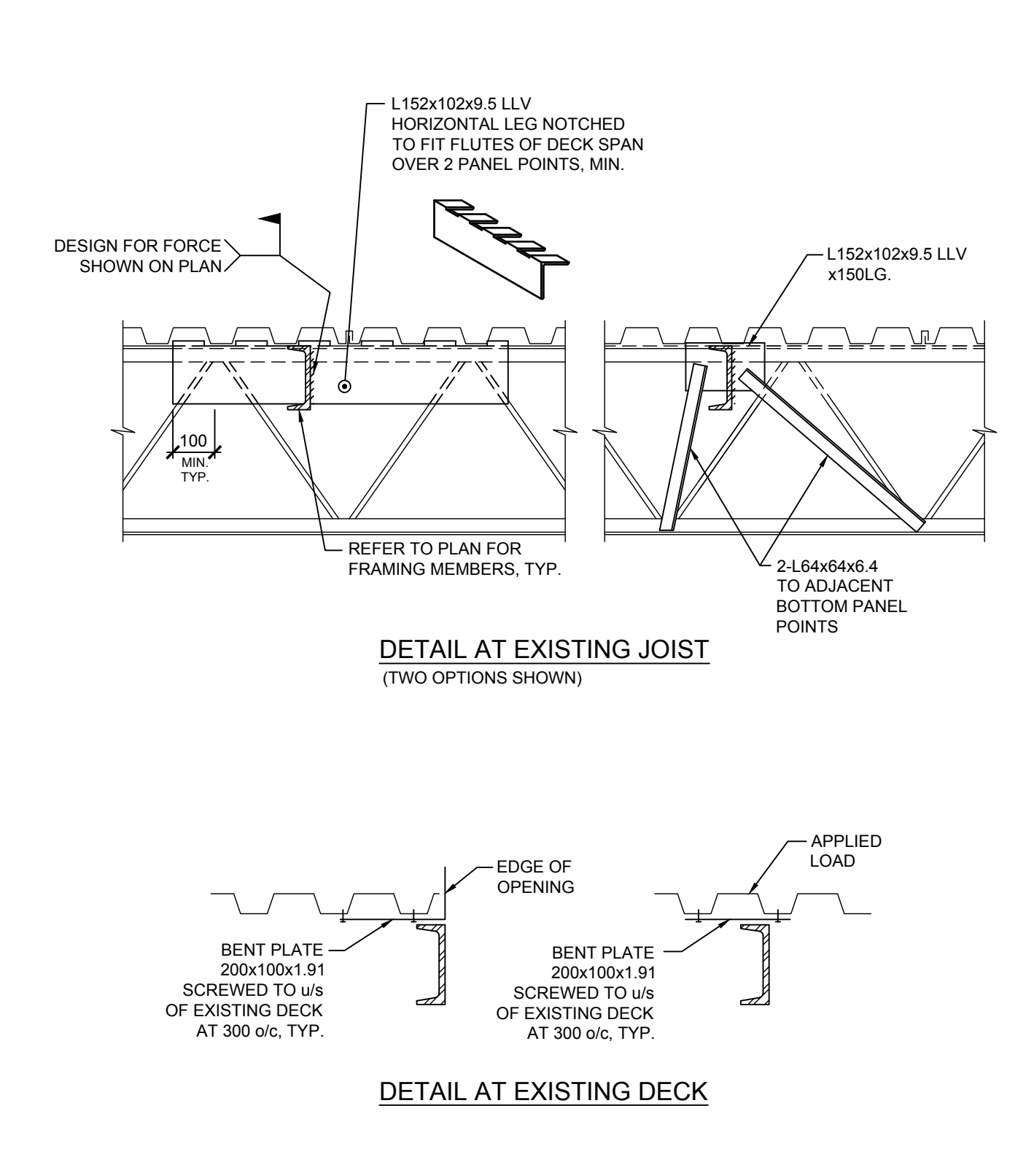


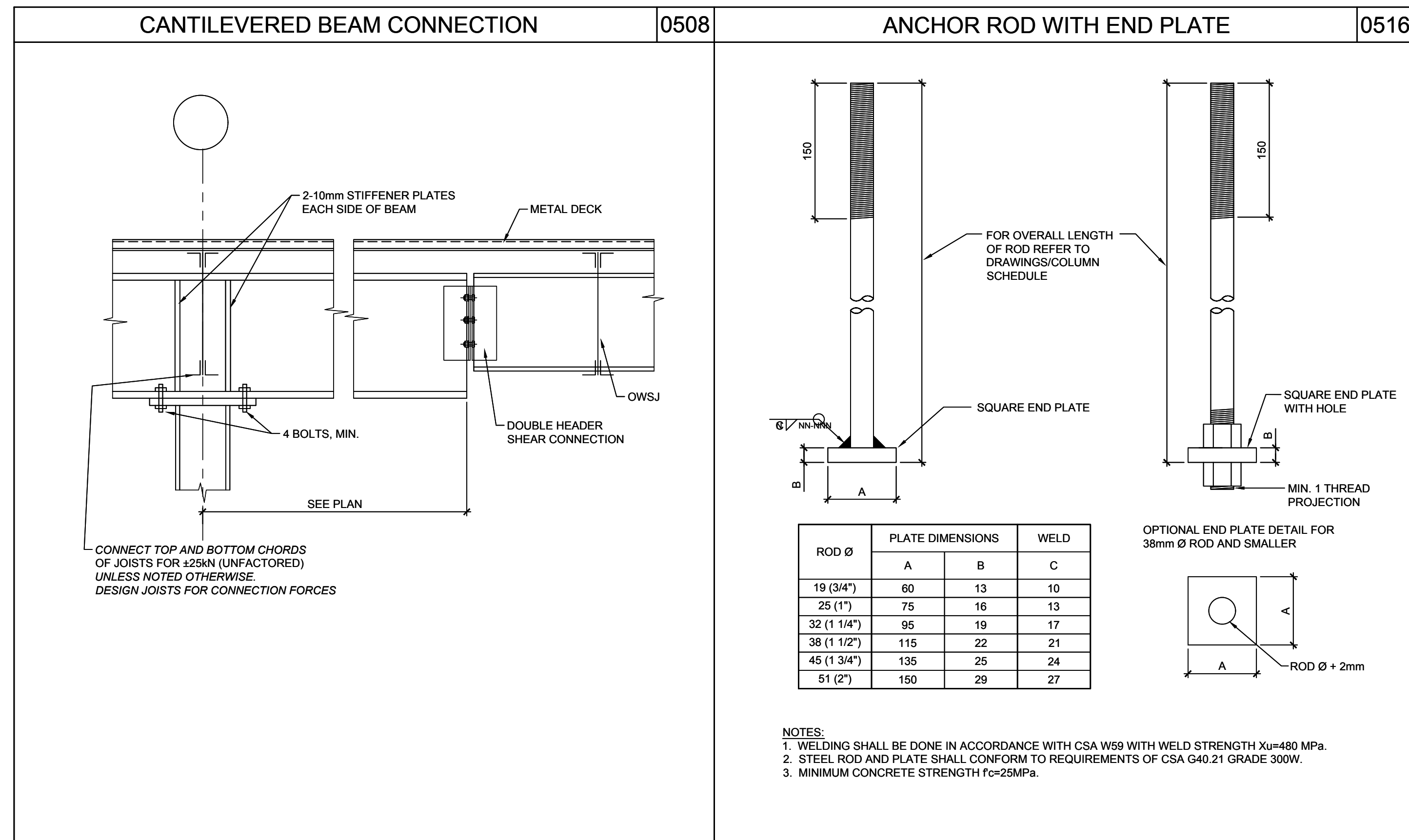
FRAMING FOR ROOFTOP UNITS AND OPENINGS IN DECK 0504



- 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.

FRAMING ONTO EXISTING STEEL JOISTS AND DECK 0505





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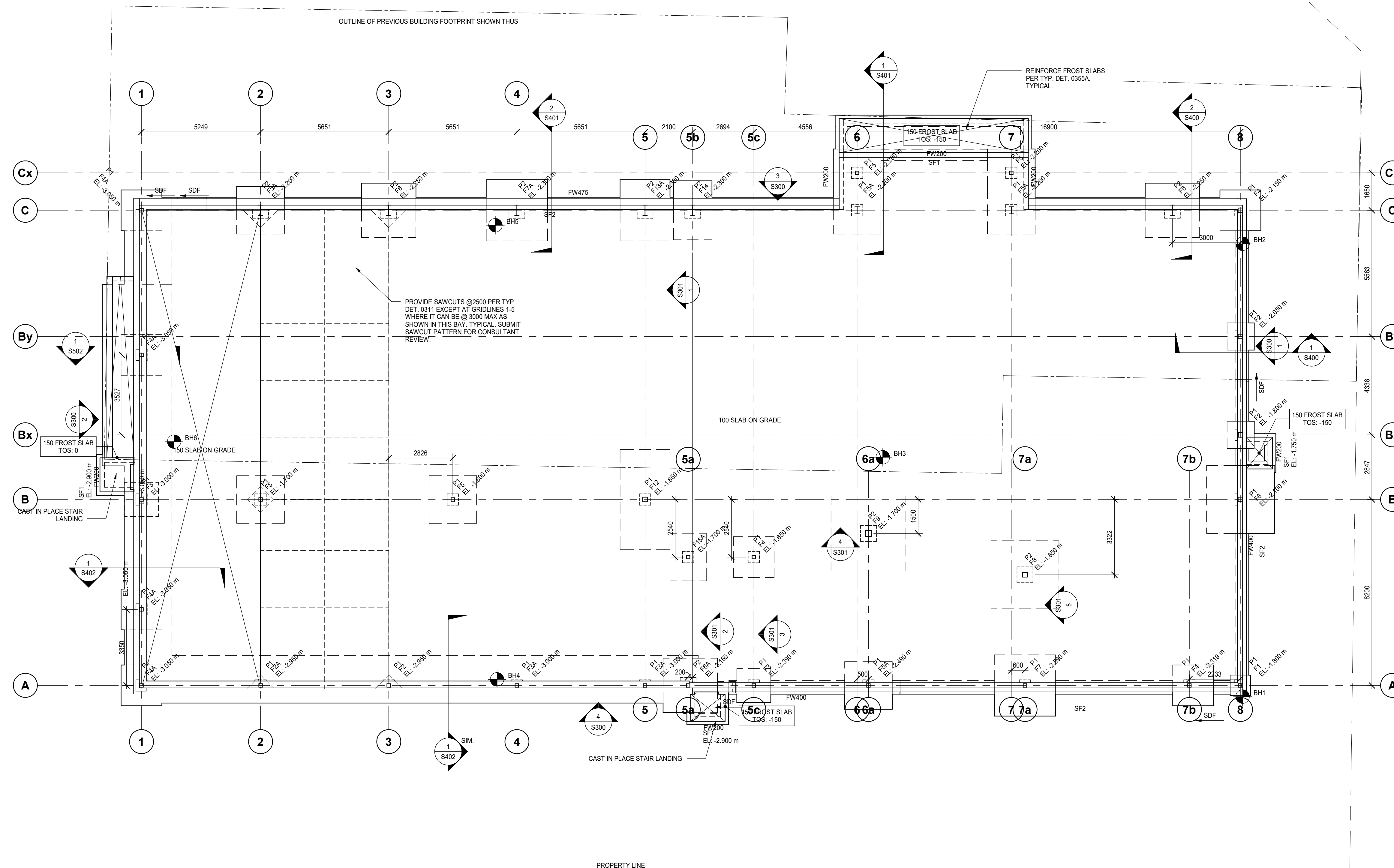
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SCALE:	PROJECT NUMBER: 210112

SHEET TITLE:
TYPICAL DETAILS

S004



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.

MARK	DIMENSIONS (mm)			REINFORCEMENT	REMARKS
	LENGTH	WIDTH	DEPTH		
F1	900	900	300	3-15M BEW	
F2	1200	1200	300	4-15M 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	
F5	2100	2100	450	8-20M BEW	
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	
F9	3300	3300	700	14-25M BEW	
F12	4400	2200	700	14-25M BEW	
F13A	2700	2200	550	8-25M BEW, 8-15M TEW	
F14	2800	1700	550	12-20M BEW	
F15A	2100	1600	550	8-20M BEW, 8-15M TEW	
SF1	500	250		SEE TYPICAL DETAIL 0306	
SF2	600	250		SEE TYPICAL DETAIL 0306	

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

MARK	THICKNESS (mm)	HORIZ. REINF.	VERT. REINF.	REMARKS
FW400	400	15M@500 HEF	15M@500 VEF	15M@500 HF, 15M@500 VIF FOR NOTCH
FW475	475	15M@400 HEF	15M@400 VEF	15M@400 HF, 15M@400 VIF FOR NOTCH

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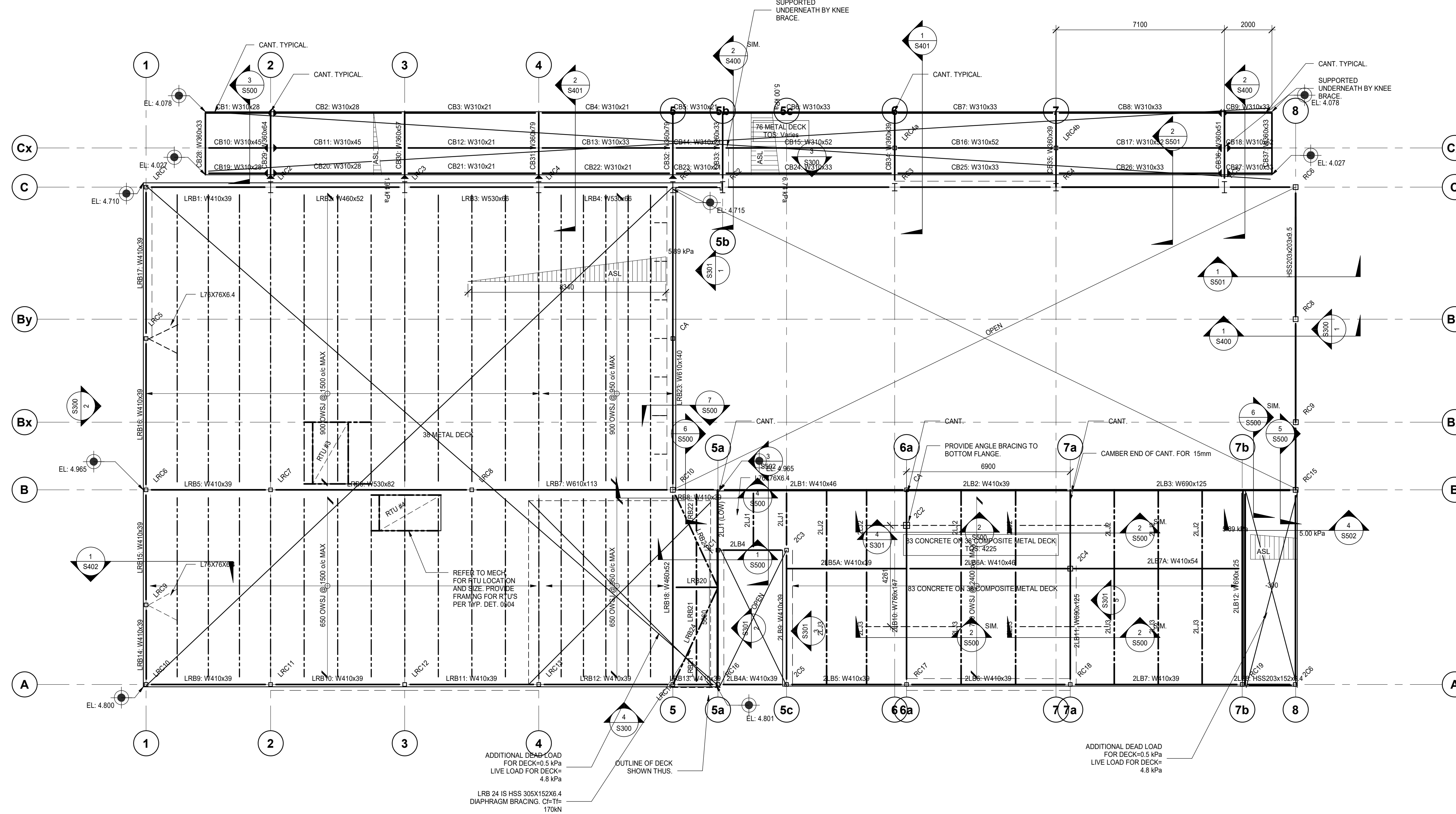


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SCALE: As indicated
PROJECT NUMBER: 210112

SHEET TITLE:
FOUNDATION PLAN

S100



- 02 - SECOND AND LOW ROOF FRAMING PLAN**
 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. REFER TO ARCHITECTURAL DRAWINGS FOR THE SLOPES.
 - TOP OF STEEL JOISTS AND STEEL BEAMS SUPPORTING THE SLAB ON METAL DECK ARE (101 mm) (111 mm) (126 mm) (136 mm) BELOW THE FINISHED FLOOR UNLESS OTHERWISE NOTED.
 - TOP OF STEEL BEAMS SUPPORTING JOISTS ARE (201 mm) (211 mm) (226 mm) (236 mm) BELOW THE FINISHED FLOOR.
 - WHERE NOTED THIS 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	W410x39	145 kN	145 kN	Cf=30 kN Tf=30 kN
LRB2	W460x52	160 kN	160 kN	Cf=60 kN Tf=60 kN
LRB3	W530x66	320 kN	320 kN	Cf=190 kN Tf=190 kN
LRB4	W530x66	320 kN	320 kN	Cf=160 kN Tf=160 kN
LRB5	W410x39	170 kN	170 kN	Cf=25 kN Tf=25 kN
LRB6	W530x82	300 kN	300 kN	Cf=55 kN Tf=55 kN
LRB7	W610x113	415 kN	545 kN	Cf=90 kN Tf=90 kN
LRB8	W410x39	25 kN	25 kN	Tm(L)=10 kN-m Tm(R)=10 kN-m Cf=15 kN Tf=15 kN
LRB9	W410x39	75 kN	75 kN	Cf=30 kN Tf=30 kN
LRB10	W410x39	75 kN	75 kN	Cf=55 kN Tf=55 kN
LRB11	W410x39	75 kN	75 kN	Cf=150 kN Tf=150 kN
LRB12	W410x39	115 kN	115 kN	Cf=120 kN Tf=120 kN
LRB13	W410x39	10 kN	10 kN	Cf=85 kN Tf=85 kN
LRB14	W410x39	30 kN	30 kN	Cf=45 kN Tf=45 kN
LRB15	W410x39	30 kN	30 kN	Cf=30 kN Tf=30 kN
LRB16	W410x39	30 kN	30 kN	Cf=30 kN Tf=30 kN
LRB17	W410x39	30 kN	30 kN	Cf=55 kN Tf=55 kN
LRB18	W460x52	100 kN	100 kN	Cf=165 kN Tf=165 kN
LRB19	W610x125	(65 kN)	250 kN	M(R)=10 kN-m Cf=285 kN Tf=285 kN
LRB20	W250x28	20 kN	20 kN	Cf=10 kN Tf=10 kN
LRB21	W200x19	20 kN	20 kN	
LRB22	W200x19	20 kN	20 kN	
LRB23	W610x140	155 kN	155 kN	Cf=165 kN Tf=165 kN
LRB24	HSS305x152x6.4	25 kN	25 kN	Cf=170 kN Tf=170 kN

STEEL BEAM SCHEDULE - SECOND FLOOR BEAM

MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
2LB1	W410x46	80 kN	85 kN	Cf=90 kN Tf=90 kN
2LB2	W410x39	75 kN	75 kN	Cf=85 kN Tf=85 kN
2LB3	W690x125	135 kN	205 kN	Tm(R)=10 kN-m Cf=85 kN Tf=85 kN
2LB4	W410x39	70 kN	70 kN	
2LB4A	W410x39	55 kN	55 kN	Cf=85 kN Tf=85 kN
2LB5	W410x39	60 kN	60 kN	Cf=115 kN Tf=115 kN
2LB5A	W410x39	95 kN	95 kN	
2LB6	W410x39	80 kN	80 kN	Cf=155 kN Tf=155 kN
2LB6A	W410x46	130 kN	130 kN	
2LB7	W410x39	85 kN	85 kN	Cf=60 kN Tf=60 kN
2LB7A	W410x54	140 kN	140 kN	
2LB8	HSS203x152x6.4	85 kN	85 kN	H(L)=15 kN H(R)=15 kN Tm(L)=15 kN-m Tm(R)=15 kN-m Cf=15 kN Tf=15 kN
2LB9	W410x39	40 kN	110 kN	Cf=40 kN Tf=40 kN
2LB10	W760x147	(-110 kN)	1175 kN	
2LB11	W690x125	(-125 kN)	400 kN	Cf=145 kN Tf=145 kN
2LB12	W690x125	145 kN	170 kN	M(R)=10 kN-m
2LB13	HSS305x203x13	90 kN	90 kN	H(L)=25 kN H(R)=25 kN Tm(L)=25 kN-m Tm(R)=25 kN-m Cf=25 kN Tf=25 kN

STEEL BEAM SCHEDULE - CANOPY BEAM

MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
CB1	W310x28		25 kN	M(R)=30 kN-m
CB2	W310x28	25 kN	20 kN	M(L)=30 kN-m
CB3	W310x21	20 kN	20 kN	
CB4	W310x21	40 kN	40 kN	
CB5	W310x21	20 kN	20 kN	
CB6	W310x33	50 kN	50 kN	
CB7	W310x33	50 kN	50 kN	
CB8	W310x33	55 kN	55 kN	M(R)=30 kN-m
CB9	W310x33	30 kN	35 kN	M(L)=30 kN-m
CB10	W310x45		45 kN	M(R)=60 kN-m
CB11	W310x45	50 kN	35 kN	M(L)=60 kN-m
CB12	W310x21	40 kN	40 kN	
CB13	W310x33	80 kN	80 kN	
CB14	W310x21	35 kN	35 kN	
CB15	W310x52	100 kN	100 kN	
CB16	W310x52	100 kN	100 kN	
CB17	W310x52	105 kN	105 kN	M(R)=55 kN-m
CB18	W310x52	55 kN	55 kN	M(L)=55 kN-m
CB19	W310x28		25 kN	M(R)=30 kN-m
CB20	W310x28	30 kN	20 kN	M(L)=30 kN-m
CB21	W310x21	25 kN	25 kN	
CB22	W310x21	40 kN	40 kN	
CB23	W310x21	20 kN	20 kN	
CB24	W310x33	50 kN	50 kN	
CB25	W310x33	50 kN	50 kN	
CB26	W310x33	55 kN	55 kN	M(R)=30 kN-m
CB27	W310x33	30 kN	35 kN	M(L)=30 kN-m
CB28	W360x33	15 kN	15 kN	Rf mid=15 kN
CB29	W360x64	165 kN		M(L)=270 kN-m
CB30	W360x57	170 kN		M(L)=275 kN-m
CB31	W360x79	235 kN		M(L)=390 kN-m
CB32	W360x79	230 kN		M(L)=390 kN-m
CB33	W360x33	(45 kN)	285 kN	
CB34	W360x39	(65 kN)	430 kN	
CB35	W360x39	(65 kN)	430 kN	
CB36	W360x51	(-55 kN)	350 kN	
CB37	W360x33	15 kN	15 kN	Rf mid=15 kN

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PROJECT ADDRESS:
132 Burleigh Street

SEAL:

DRAWN:
DM

CHECKED:
IFM

SCALE:
As indicated

PROJECT NUMBER:
210112

SHEET TITLE:
SECOND & LOW ROOF FRAMING PLAN

S101

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Do not scale this drawing.

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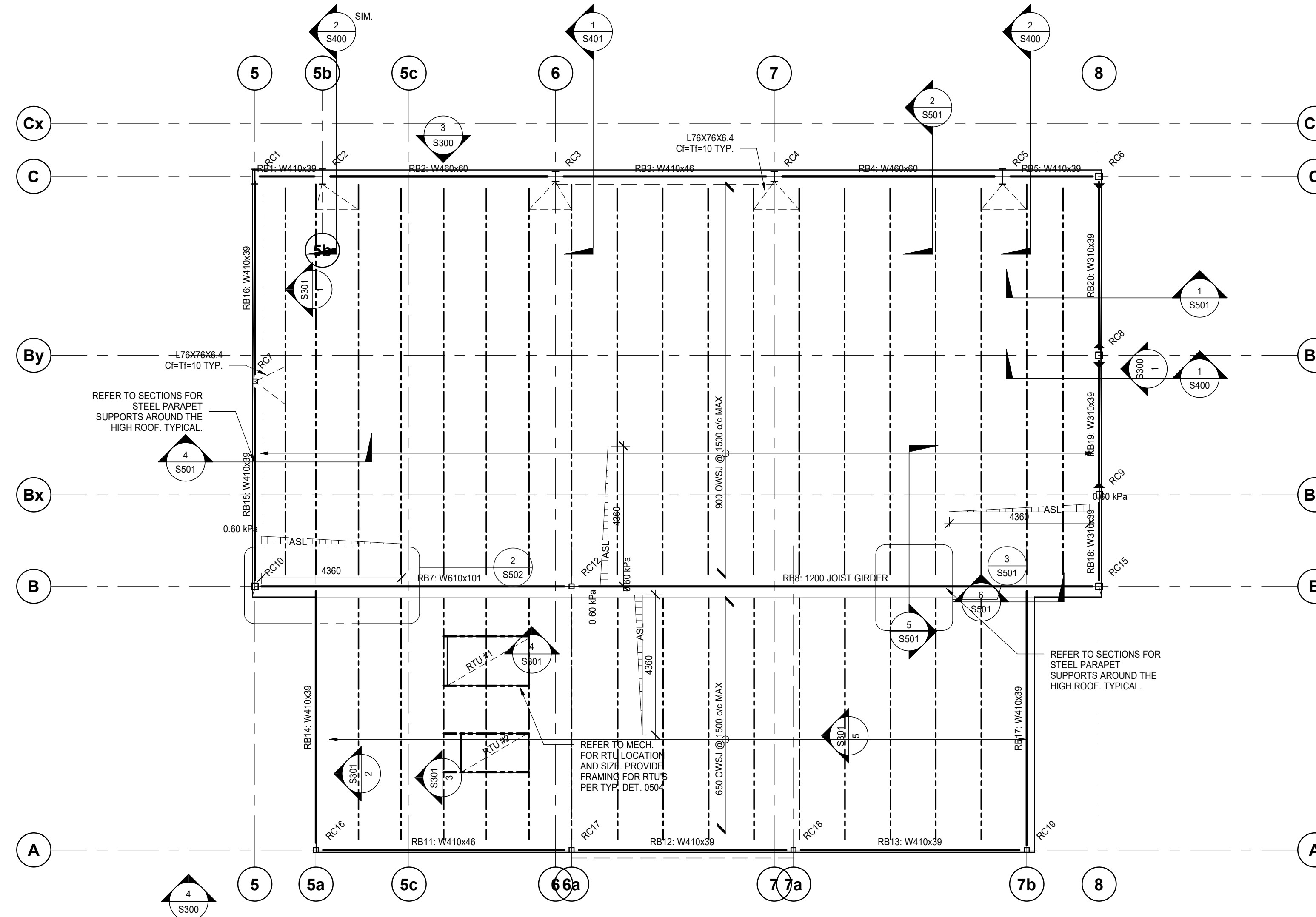
SEAL:



DRAWN: DM	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 * mm BELOW THE ROOF DATUM UNLESS NOTED THIS. 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

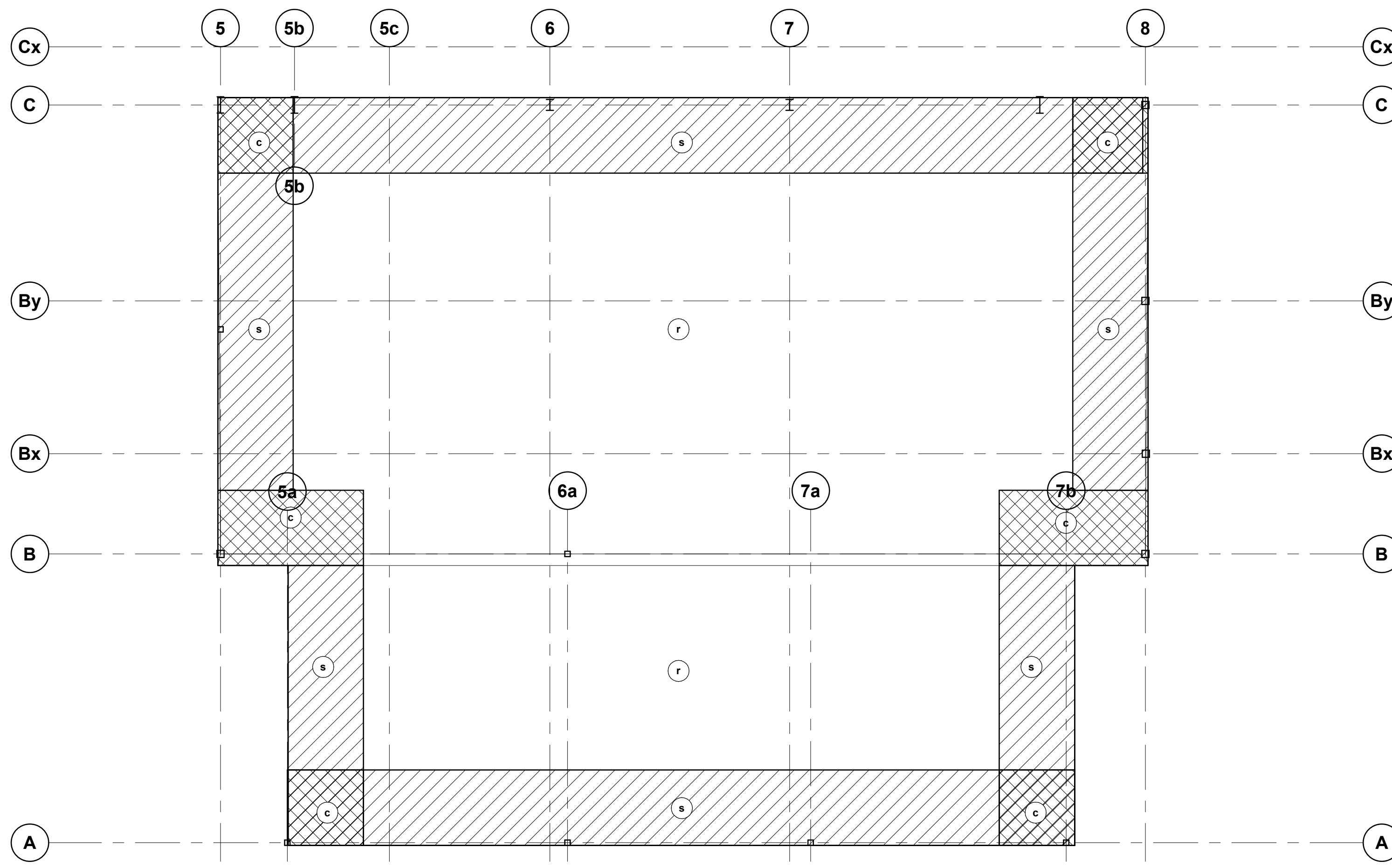
STEEL BEAM SCHEDULE - HIGH ROOF

MARK	SIZE	REACTIONS		REMARKS
		LEFT END	RIGHT END	
RB1	W410x39	45 kN	45 kN	Cf=15 kN Tf=15 kN
RB2	W460x60	160 kN	160 kN	Cf=45 kN Tf=45 kN
RB3	W410x46	145 kN	145 kN	Cf=75 kN Tf=75 kN
RB4	W460x60	160 kN	160 kN	Cf=50 kN Tf=50 kN
RB5	W410x39	60 kN	60 kN	Cf=15 kN Tf=15 kN
RB7	W610x101	275 kN	315 kN	
RB8	1200 JOIST GIRDER	560 kN	560 kN	
RB11	W410x46	105 kN	105 kN	Cf=40 kN Tf=40 kN
RB12	W410x39	95 kN	95 kN	Cf=70 kN Tf=70 kN
RB13	W410x39	100 kN	100 kN	Cf=35 kN Tf=35 kN
RB14	W410x39	35 kN	35 kN	Cf=30 kN Tf=30 kN
RB15	W410x39	30 kN	30 kN	Cf=95 kN Tf=95 kN
RB16	W410x39	30 kN	30 kN	Cf=65 kN Tf=65 kN
RB17	W410x39	35 kN	35 kN	Cf=40 kN Tf=40 kN
RB18	W310x39	30 kN	30 kN	Cf=40 kN Tf=40 kN
RB19	W310x39	30 kN	30 kN	Cf=40 kN Tf=40 kN
RB20	W310x39	30 kN	30 kN	Cf=40 kN Tf=40 kN

STEEL BEAM SCHEDULE

NOTES:

- LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN.
- REACTIONS GIVEN ARE FACTORED FORCES. REACTIONS WITHIN BRACKETS DENOTE FACTORED UPLIFT FORCES.
- DESIGN CONNECTIONS FOR AXIAL COMPRESSION (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.



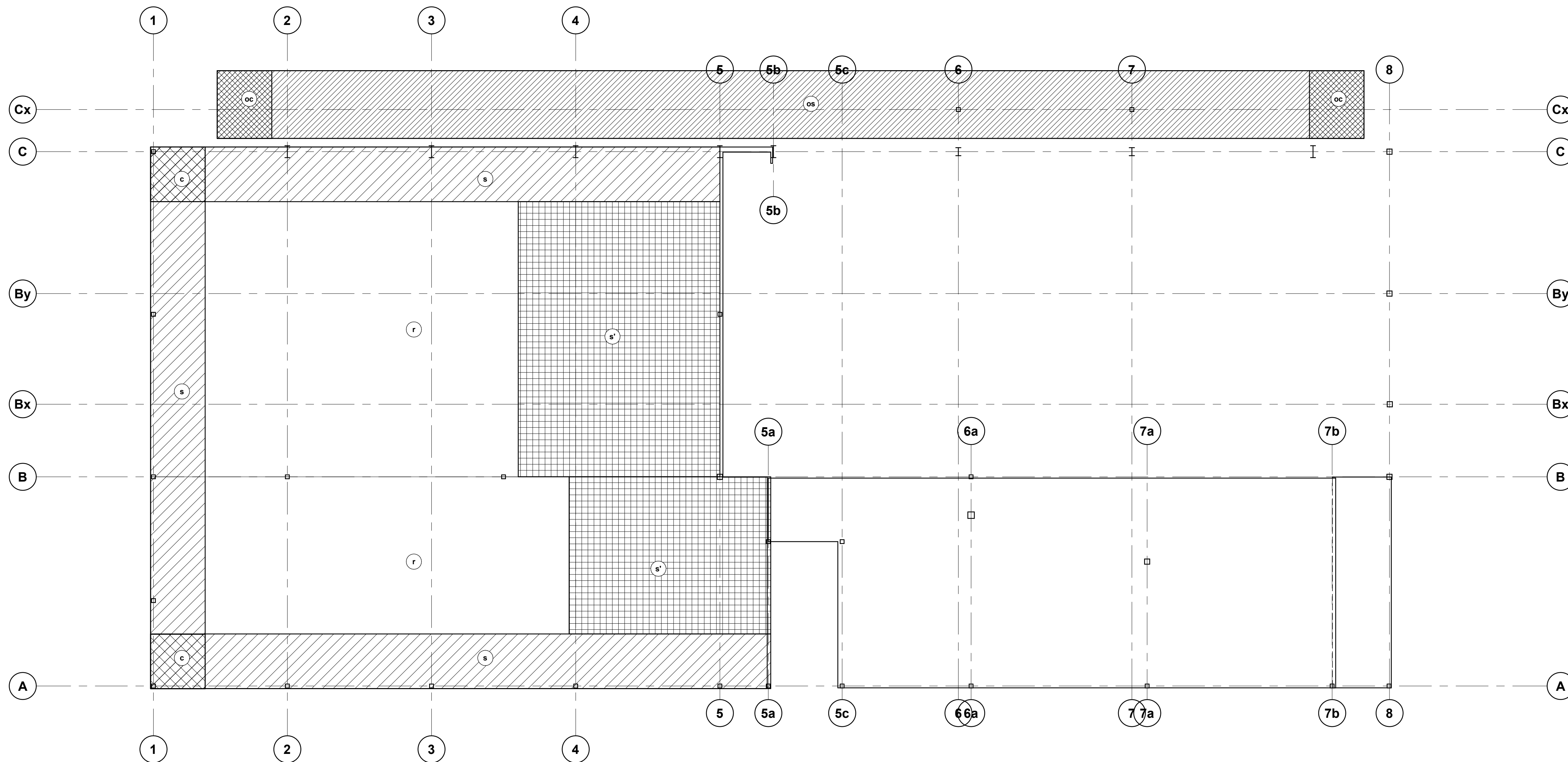
1 WIND UPLIFT - HIGH ROOF
S103 1:100

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



2 WIND UPLIFT - LOW ROOF
S103 1:100

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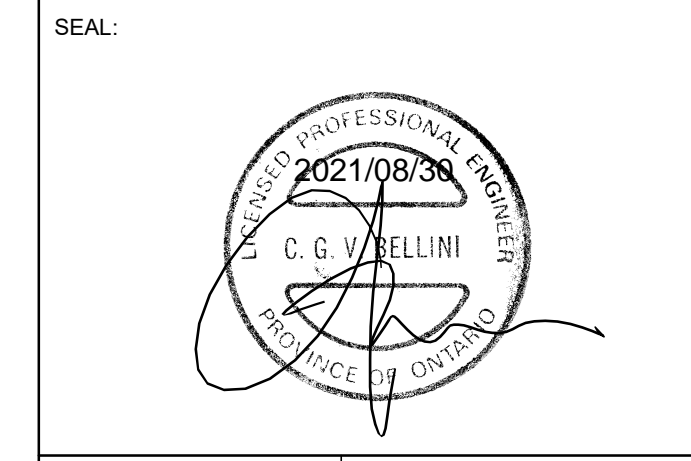
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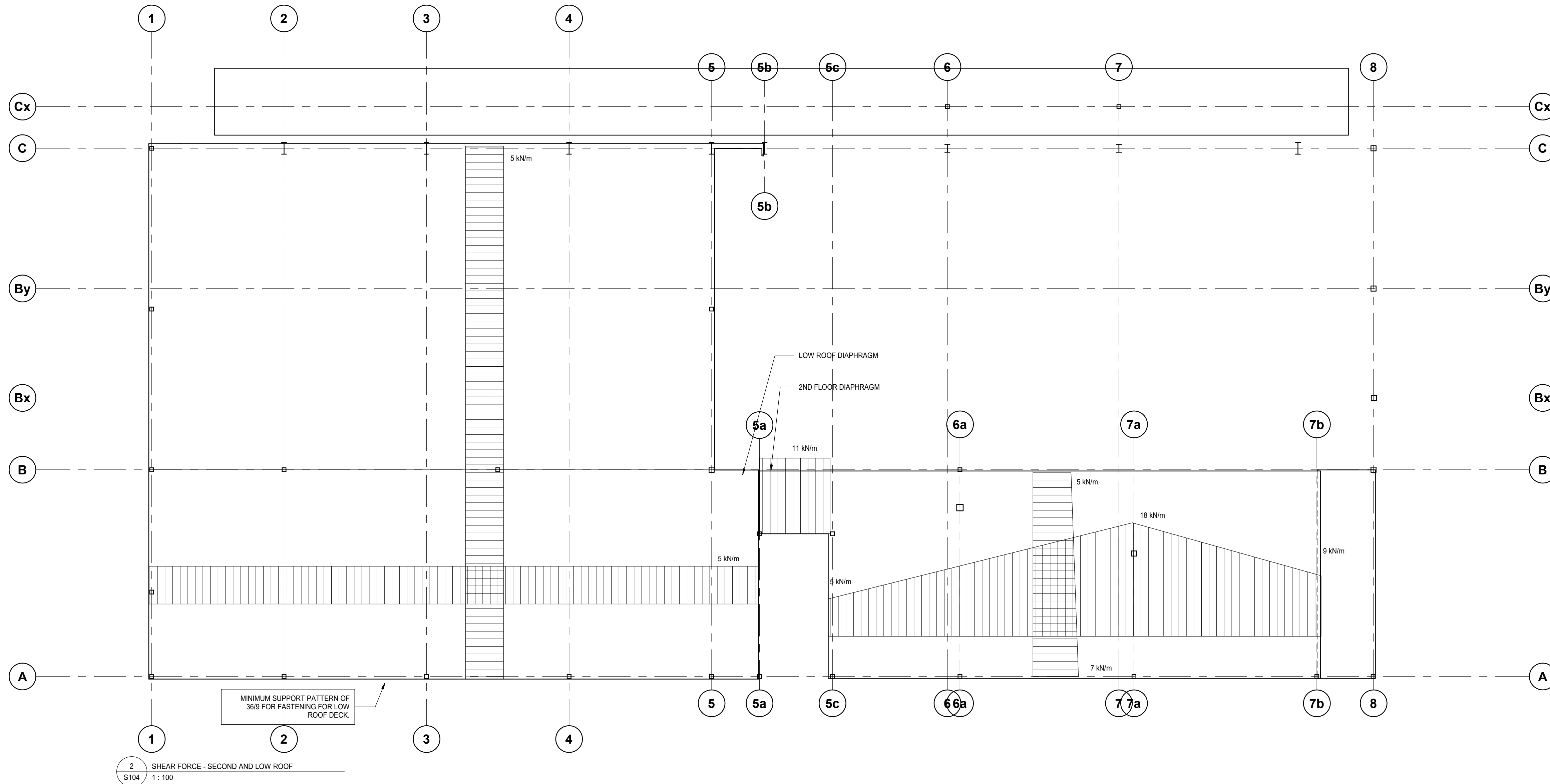
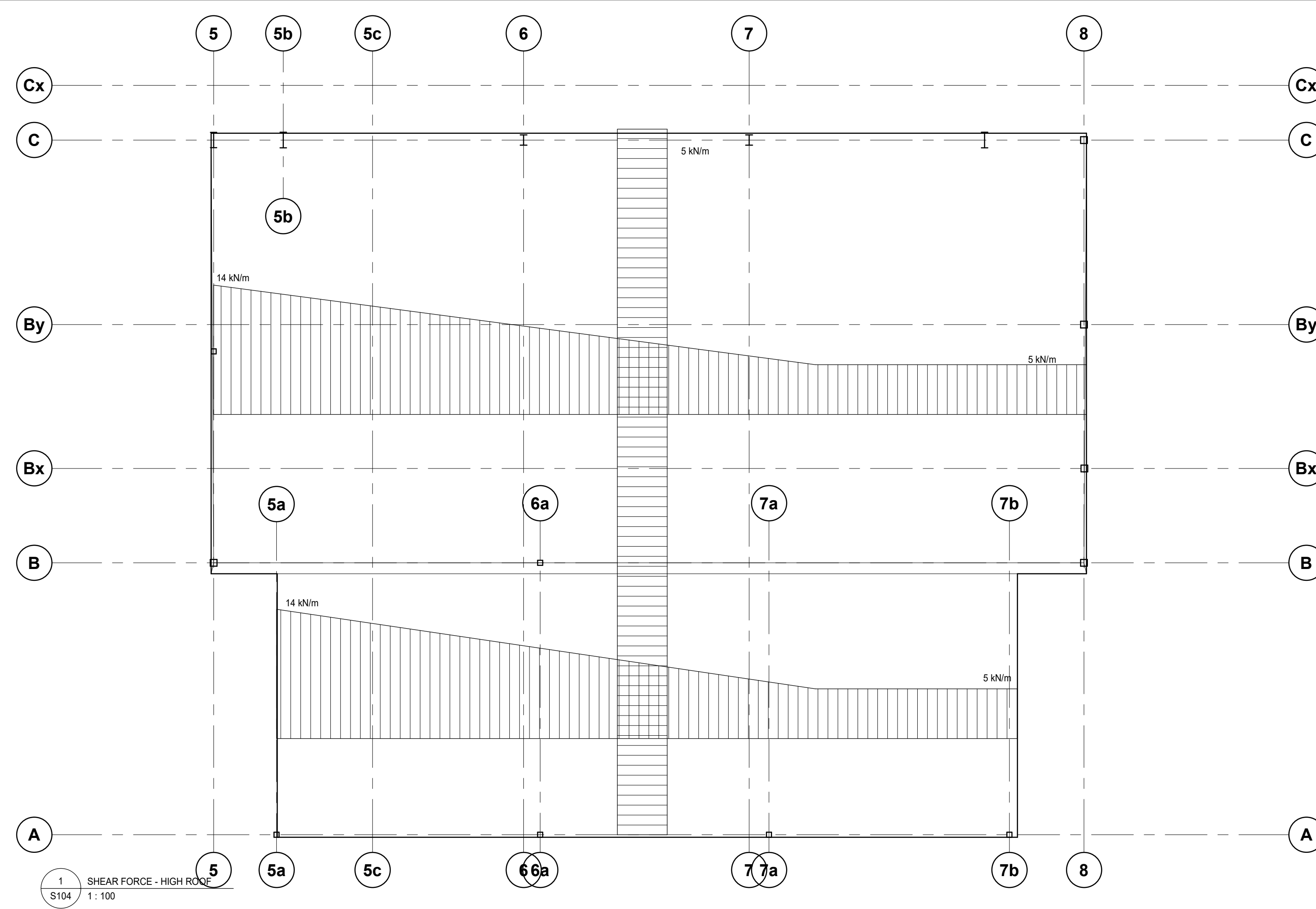
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SCALE: As indicated	PROJECT NUMBER: 210112

SHEET TITLE:
WIND UPLIFT DIAGRAMS

S103

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 $Rd/Ro = 1.95$. IF WELDED CONNECTIONS ARE TO BE USED, THE FACTORED FORCES MUST BE INCREASED 1.5 TIMES BASED ON AN $Rd/Ro = 1.3$.



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SCALE: As indicated	PROJECT NUMBER: 210112

SHEET TITLE:
SHEAR FORCE DIAGRAMS

S104

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
US FOOTINGS																				US FOOTINGS
-1500																				-1500
COLUMN LOCATIONS																				
	LRC10	LRC9	LRC11	LRC12	LRC13	LRC14	RC16	2C5	RC17	RC18	RC19	2C6	LRC6	LRC7	LRC8	RC10	2C1	2C3	RC12	2C2

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
US FOOTINGS																				US FOOTINGS
-1500																				-1500
COLUMN LOCATIONS																				
	2C4	RC15	LRC1	LRC2	LRC3	LRC4	RC1	RC2	RC3	RC4	RC6	RC5	RC9	LRC5	RC7	RC8	LRC4a	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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SCALE:
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PROJECT NUMBER:
210112

SHEET TITLE:
COLUMN SCHEDULE

S200

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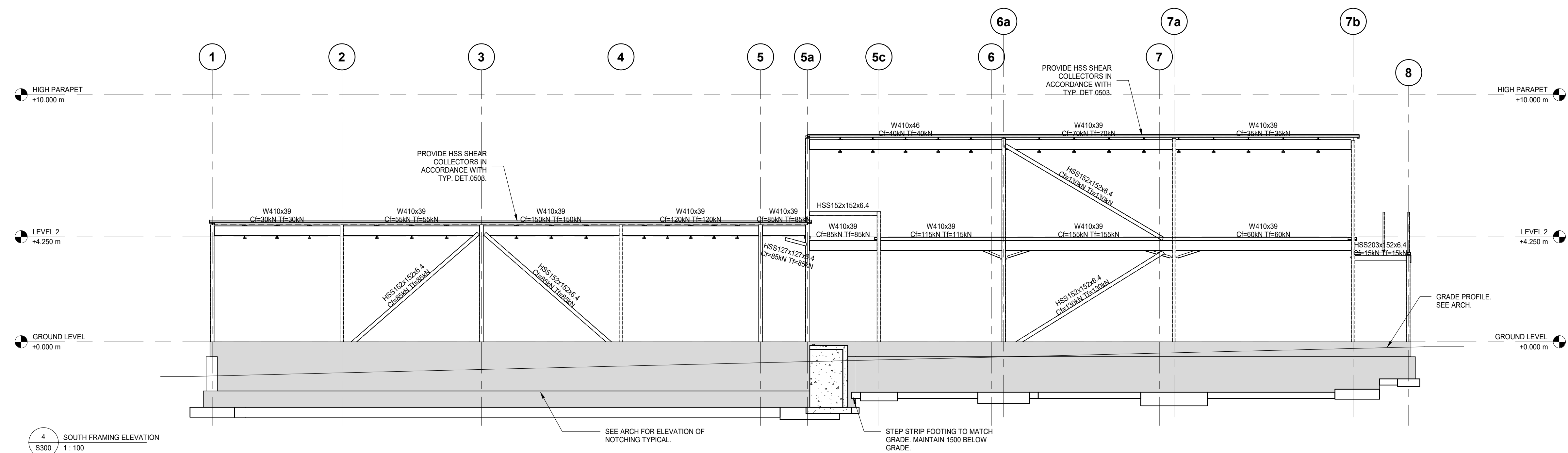
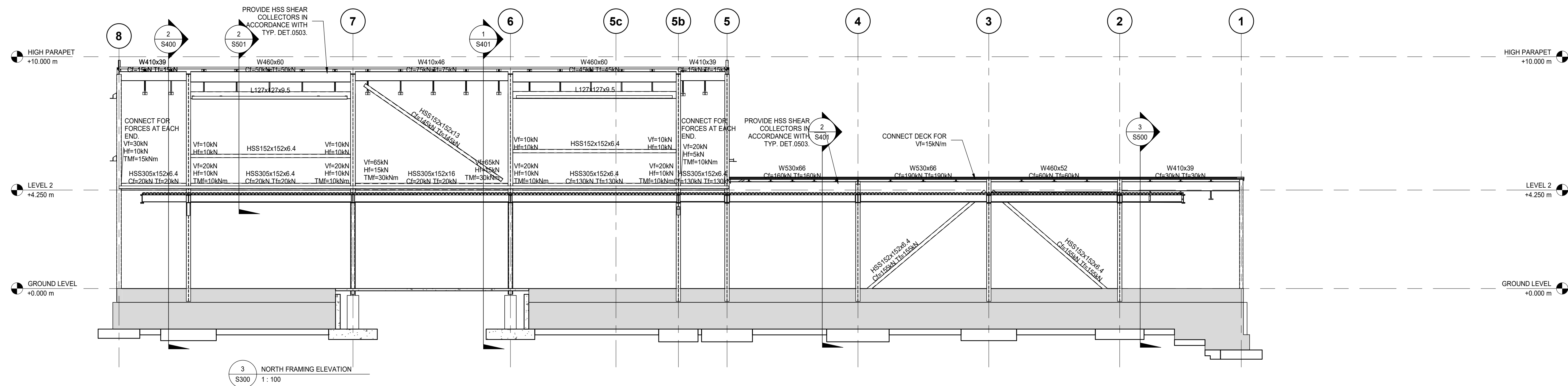
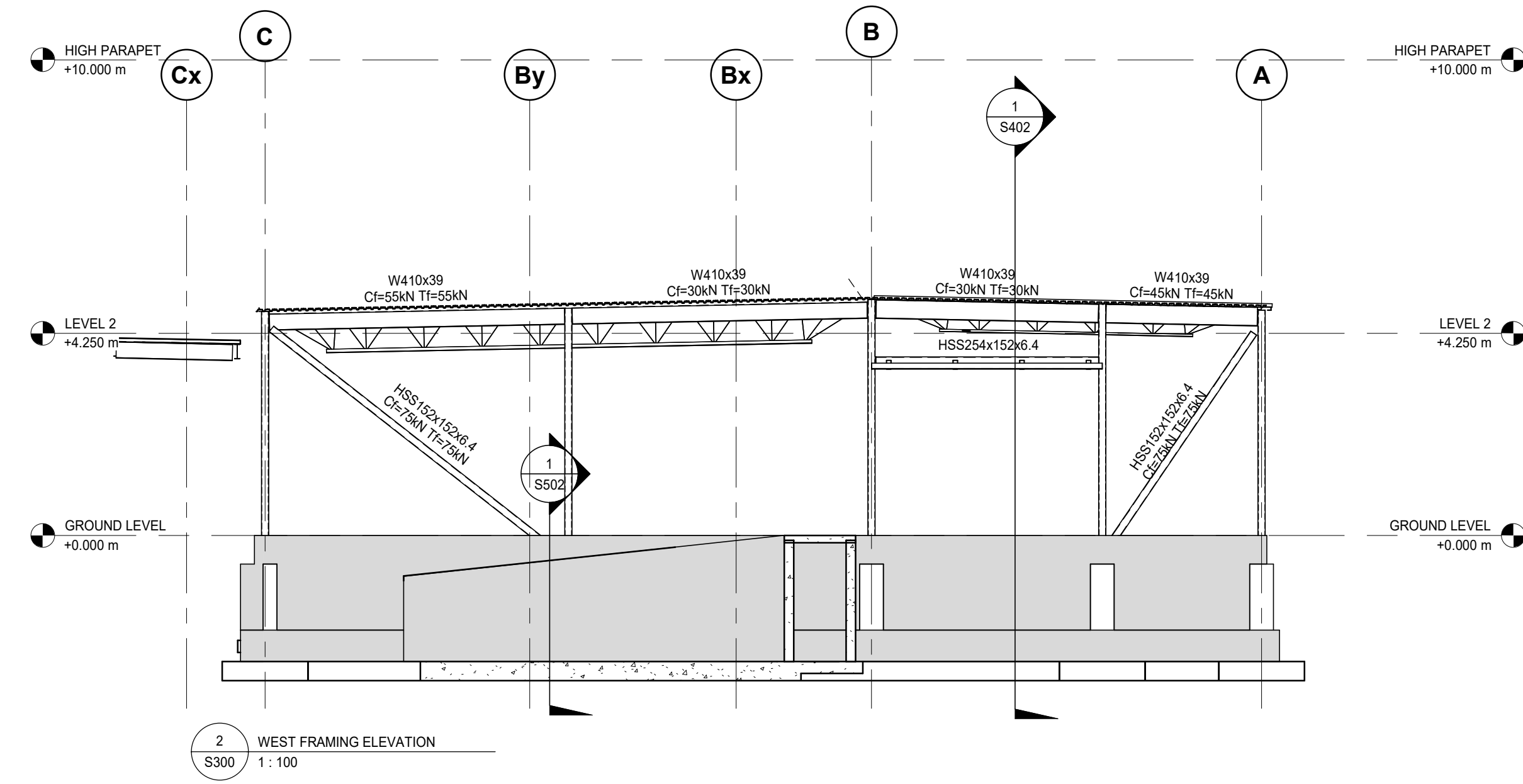
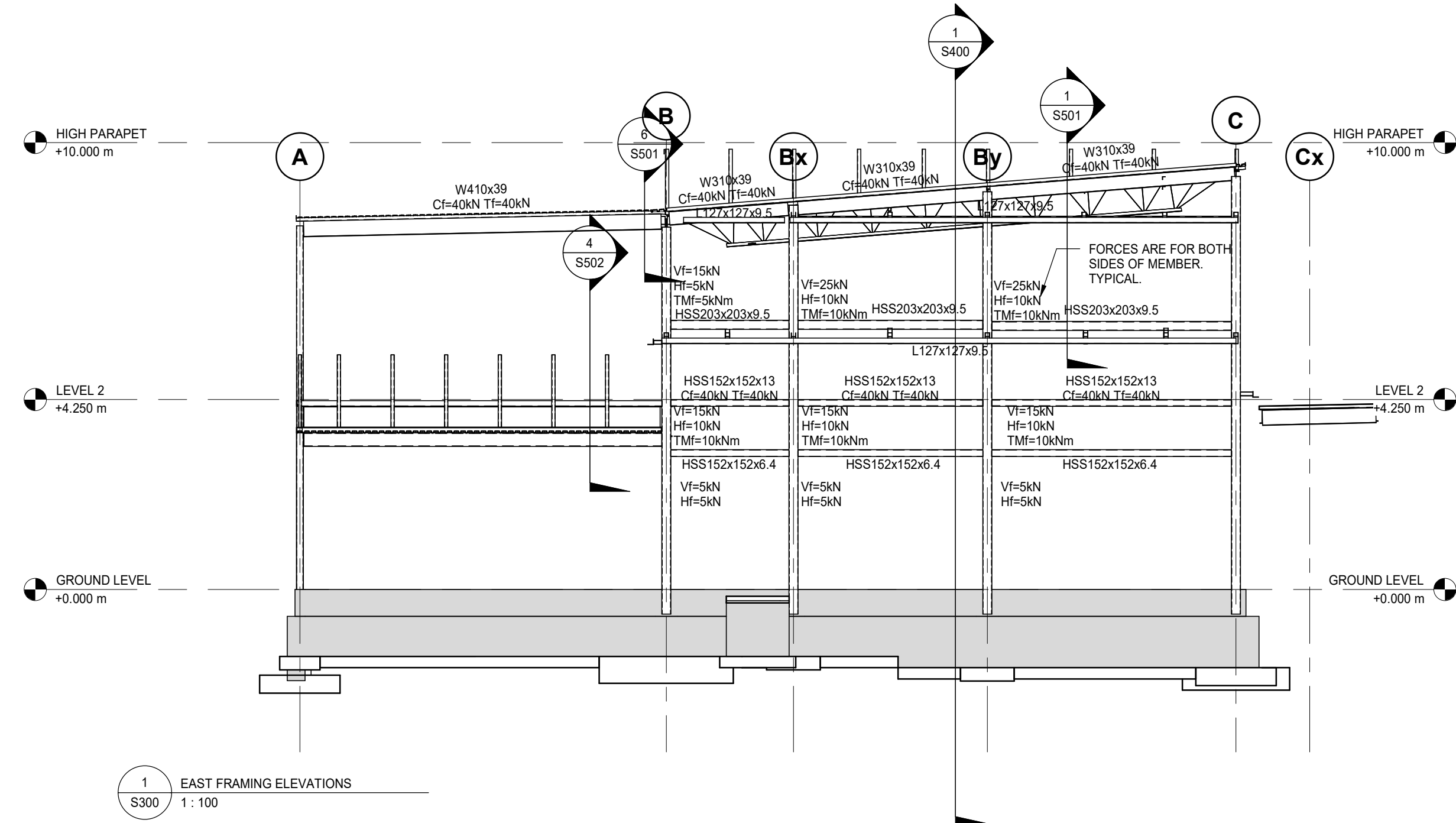
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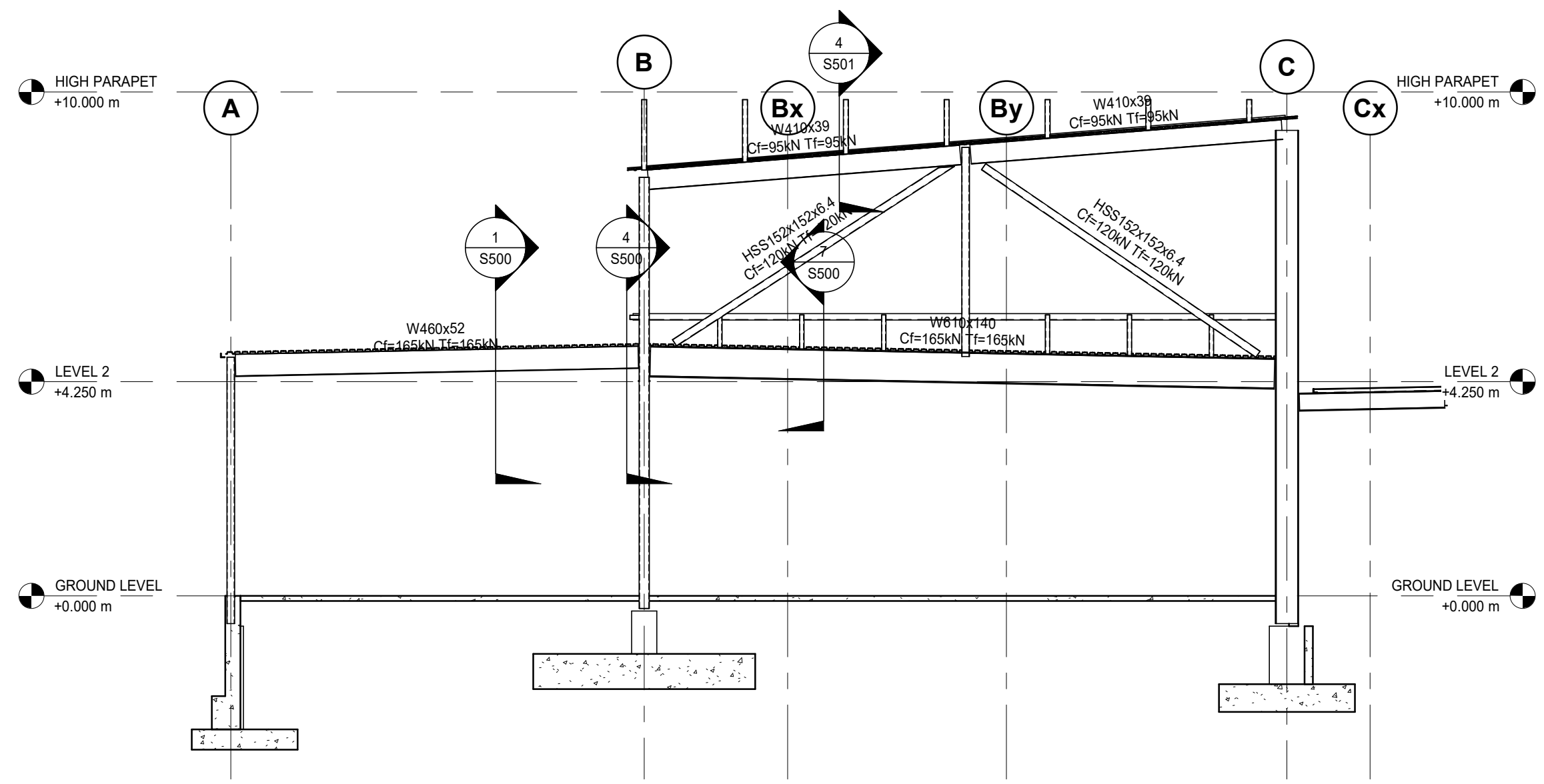


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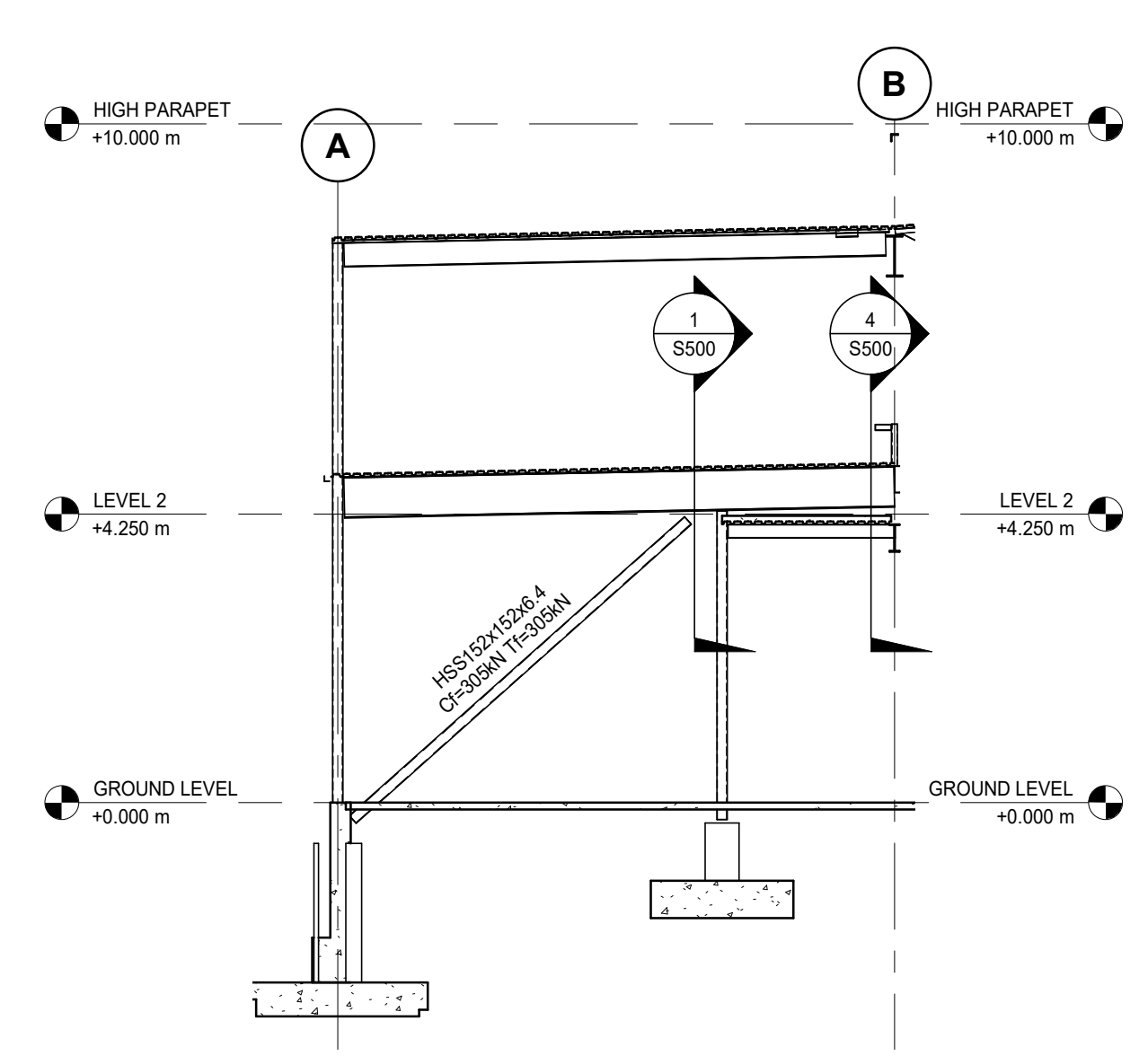
SHEET TITLE:
FRAMING ELEVATIONS

S300

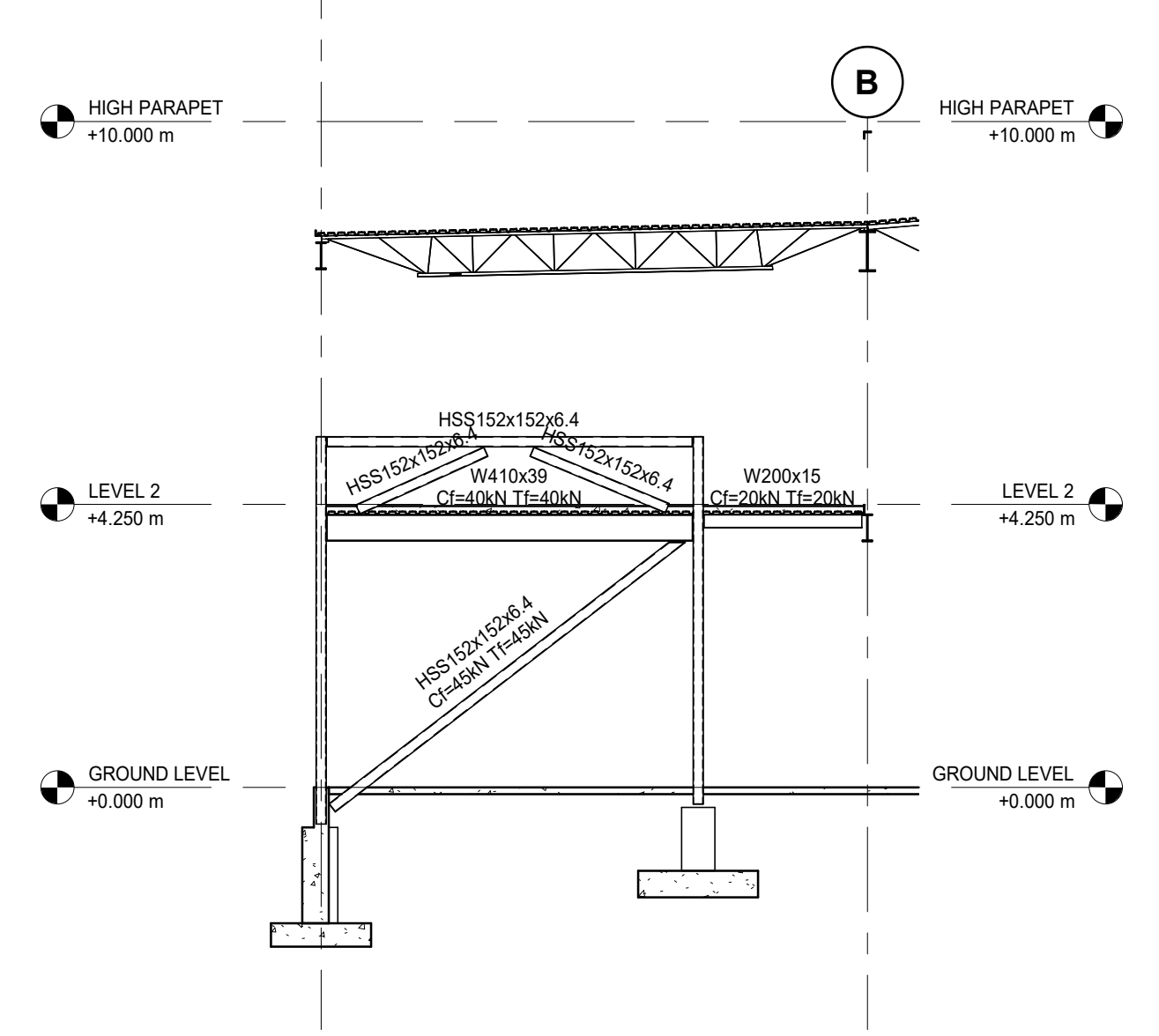




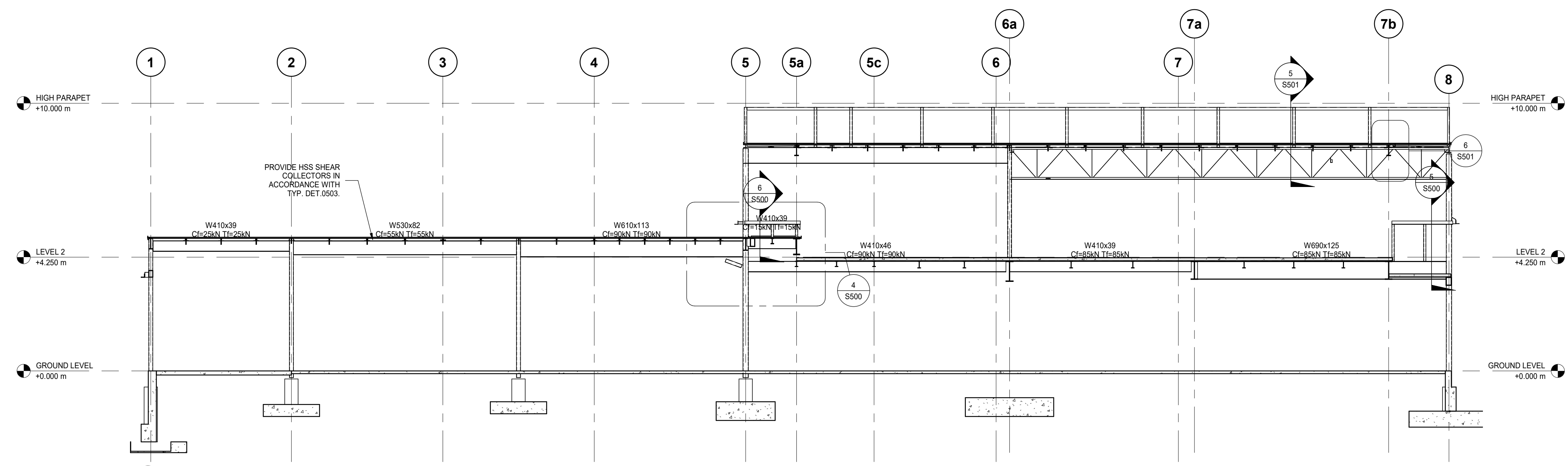
1 HIGH ROOF BRACING
S301 1:100



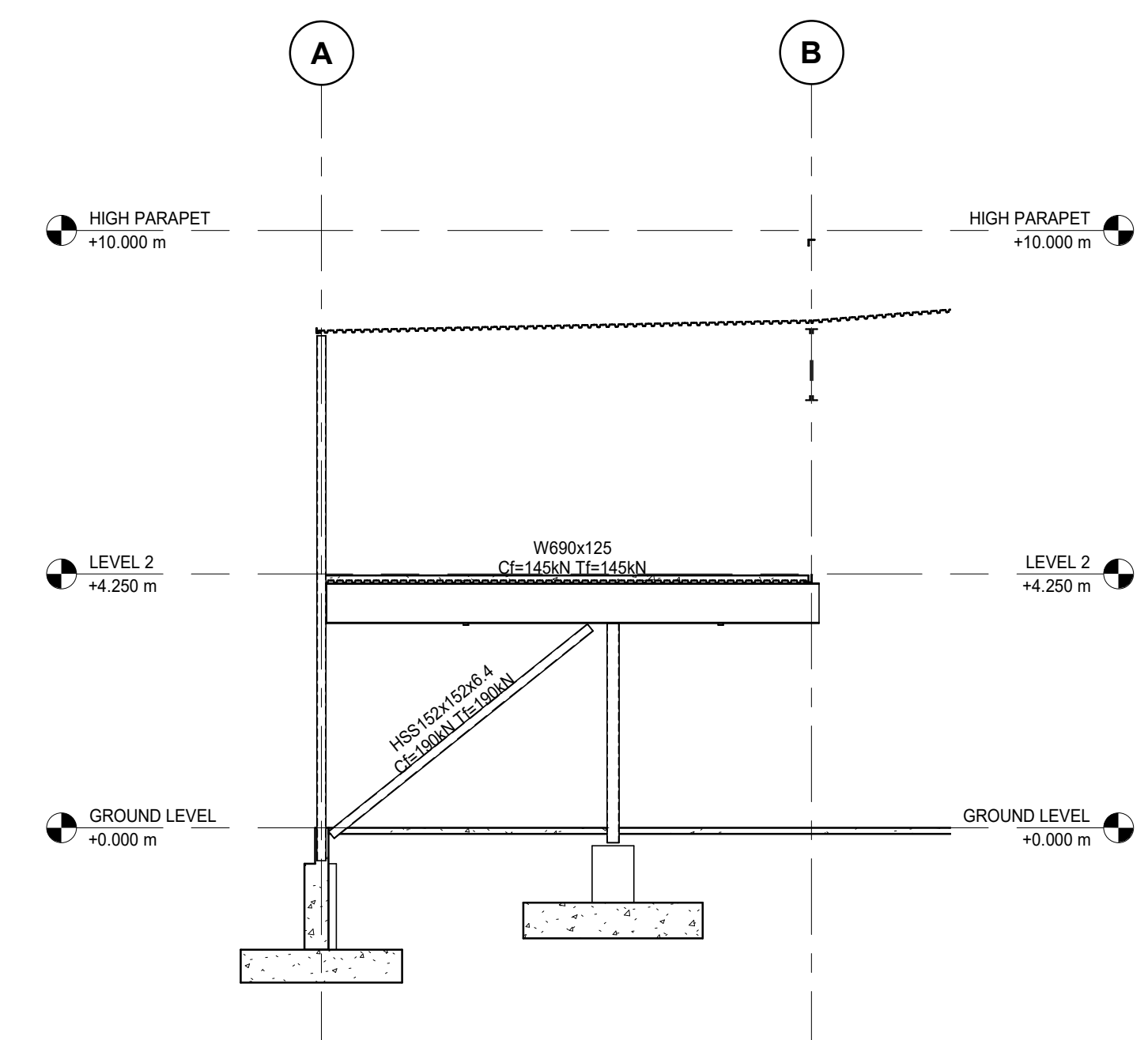
2 FRAMING BRACING NEAR GL 5a
S301 1:100



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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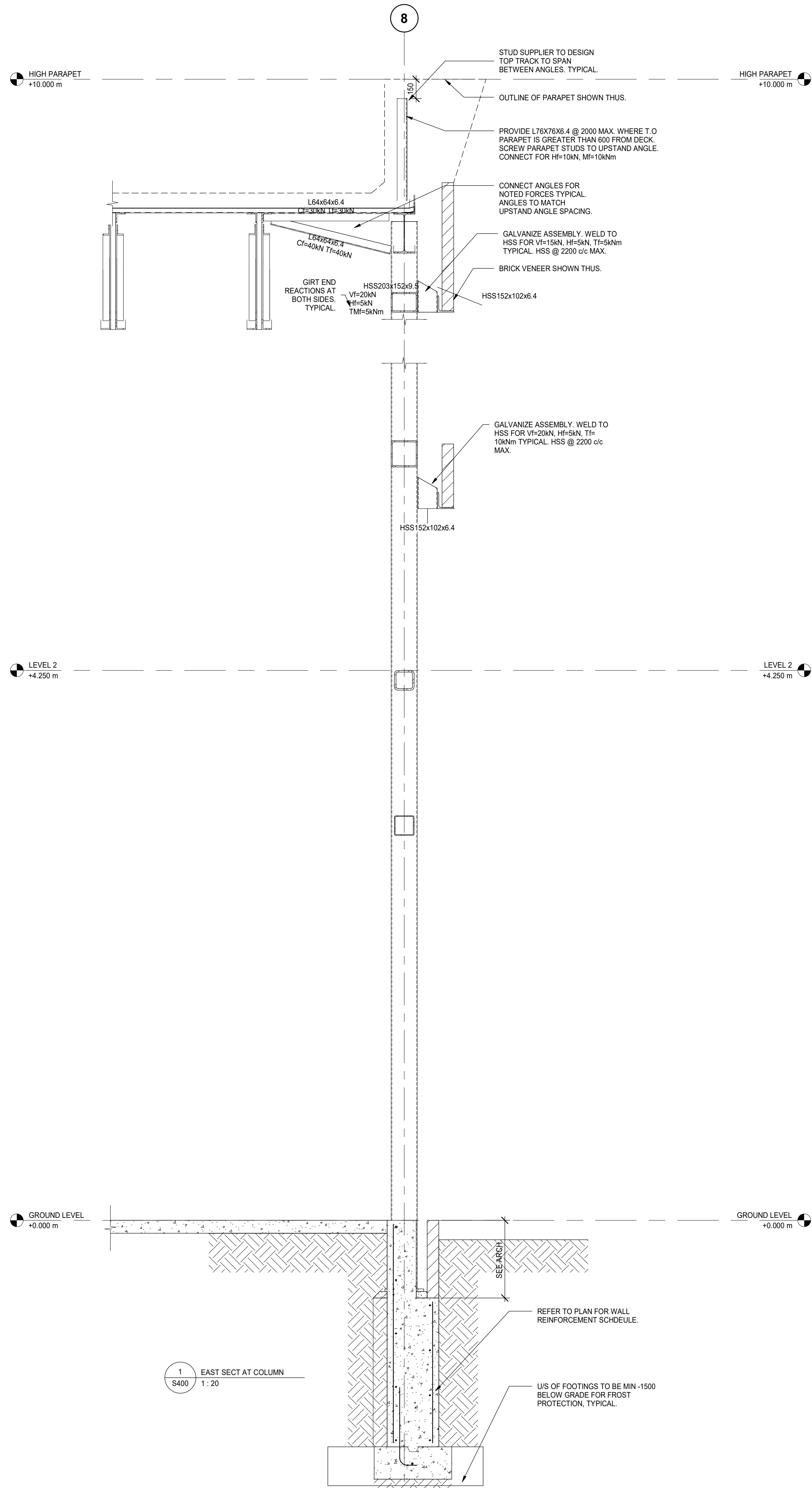
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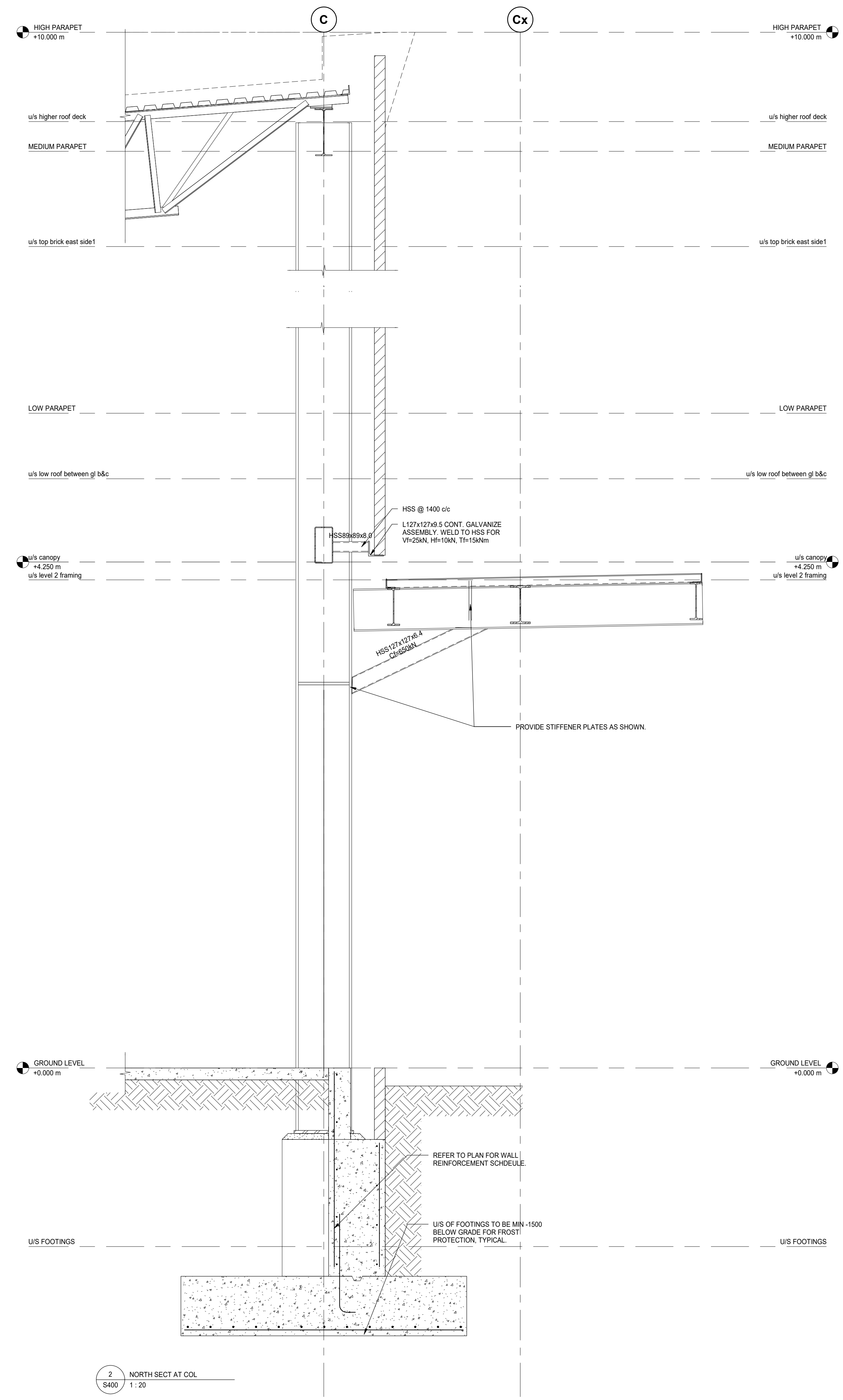
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SHEET TITLE:
FRAMING ELEVATIONS

S301



1 EAST SECT AT COLUMN
S400 1:20



2 NORTH SECT AT COL
S400 1:20

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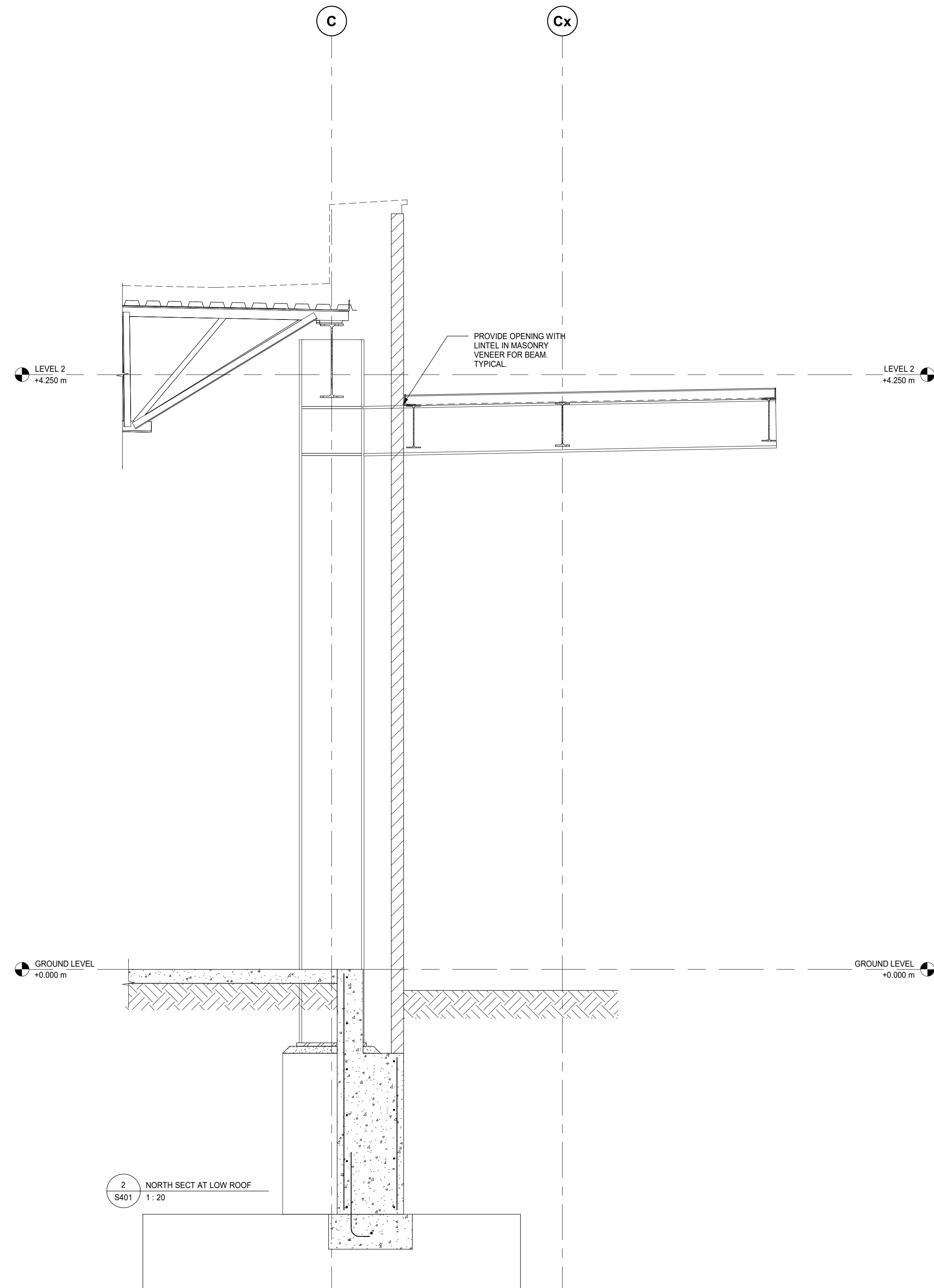
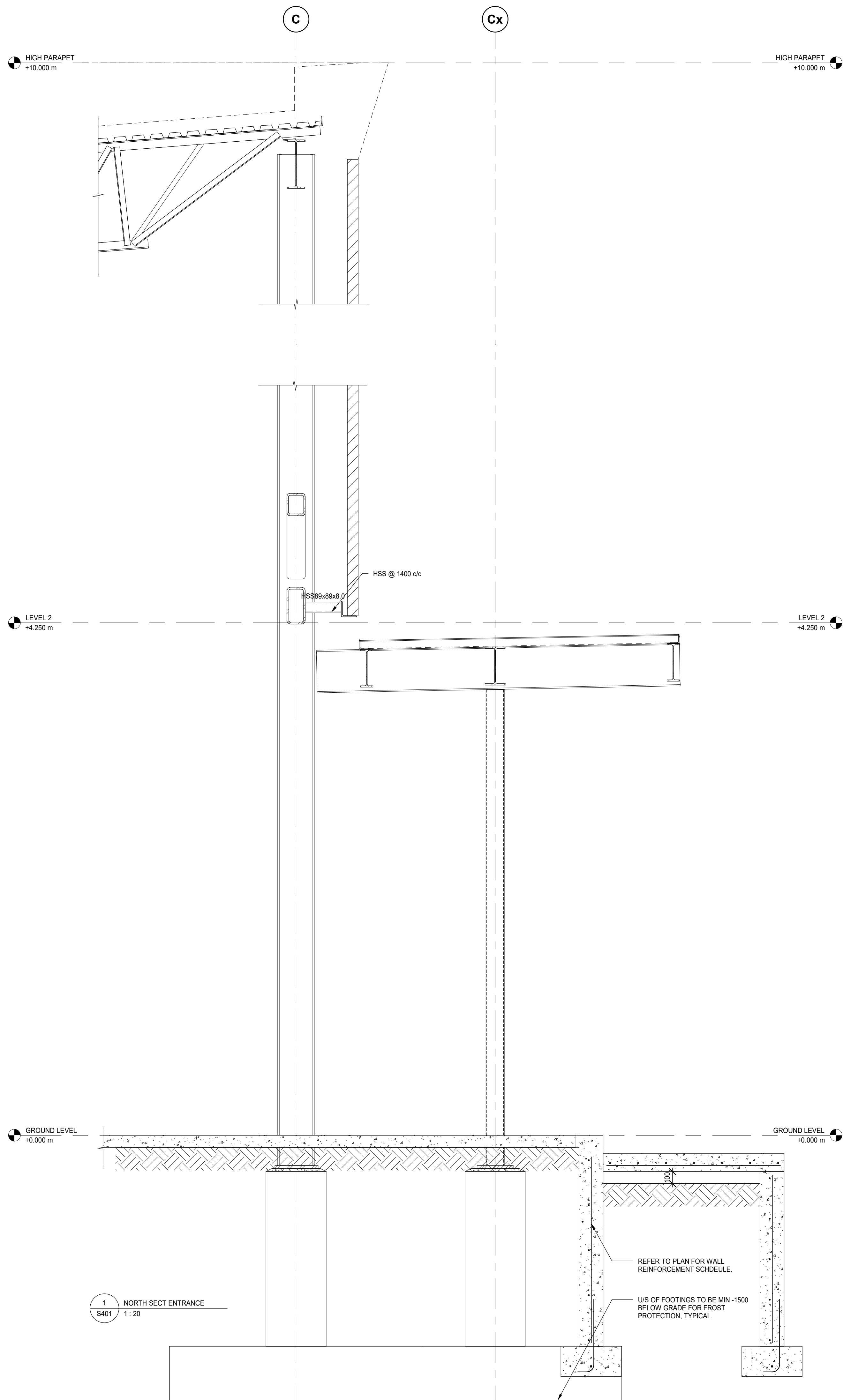
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SHEET TITLE:
BUILDING SECTIONS

S400



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Author

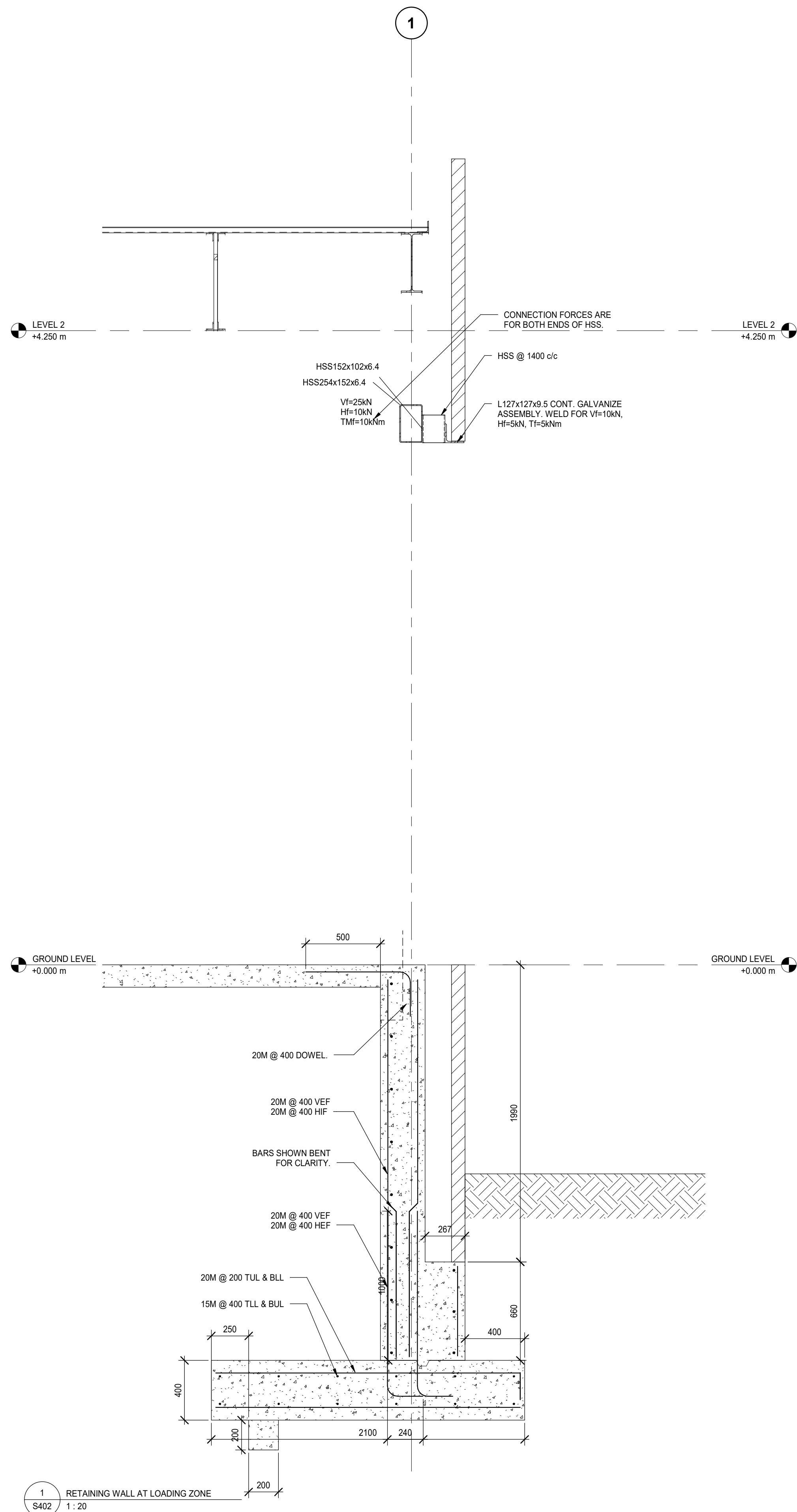
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SHEET TITLE:
BUILDING SECTIONS

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132 Burleigh Street

SEAL:



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

SHEET TITLE:
BUILDING SECTIONS

S402

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 TENDER

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

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PROJECT NAME:
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS:
132 Burleigh Street

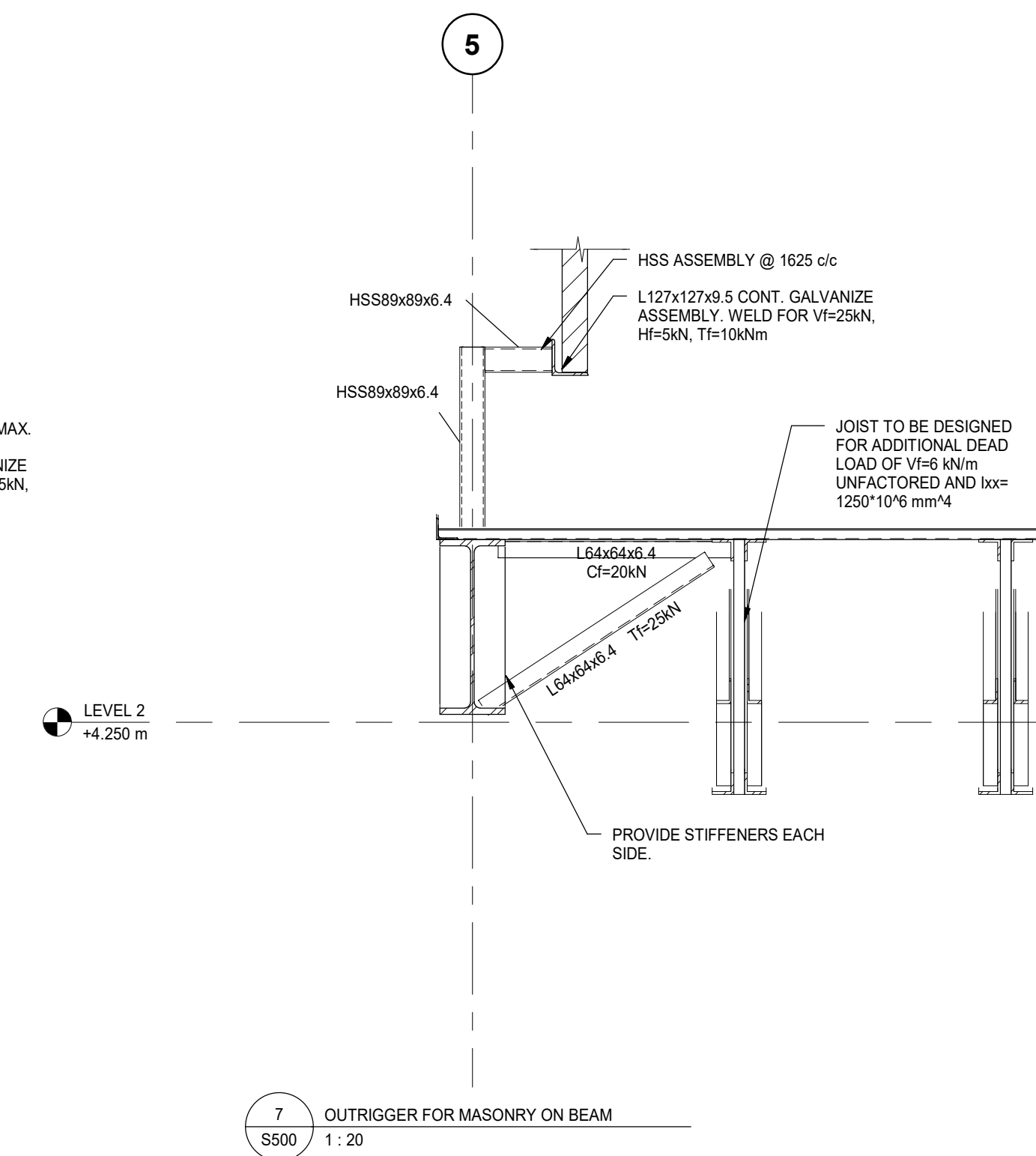
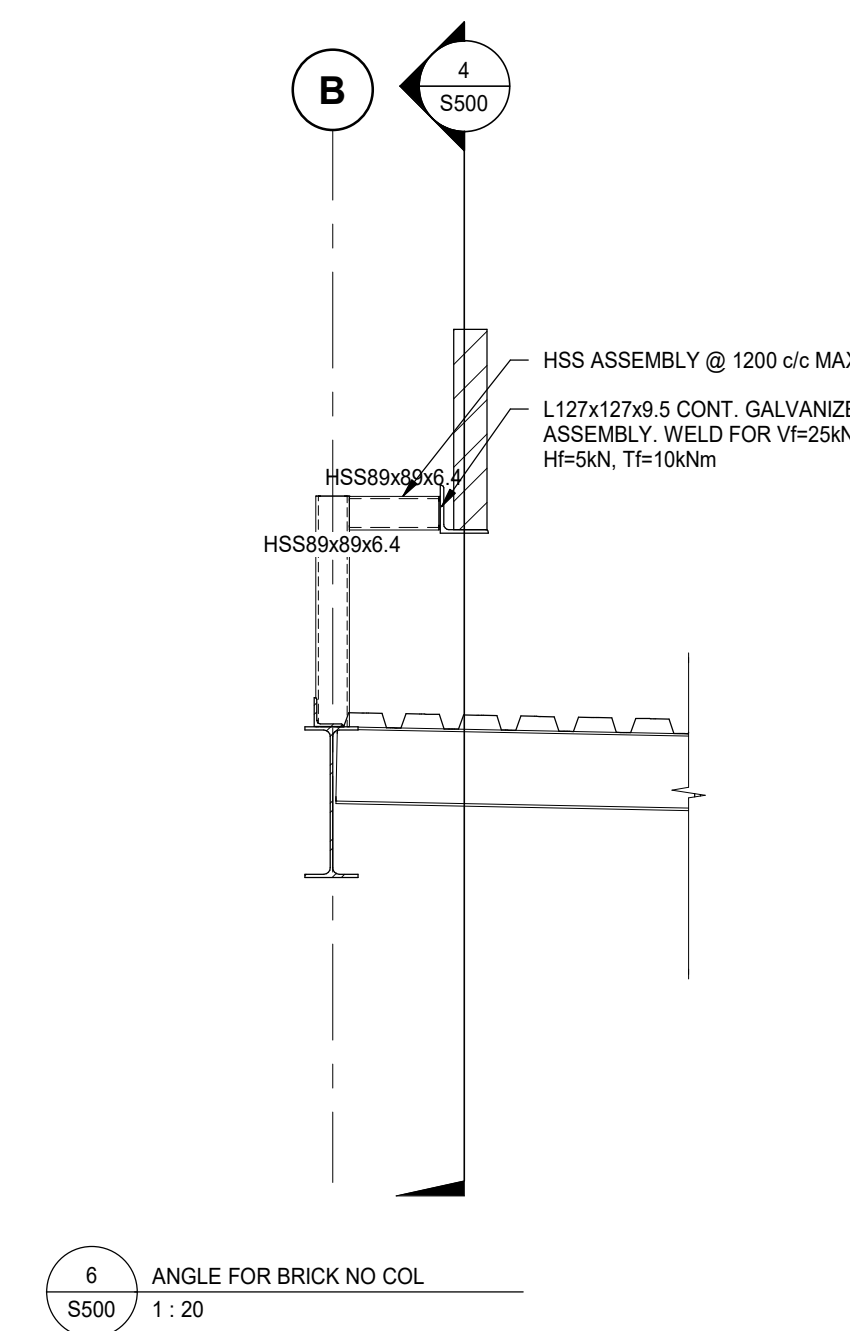
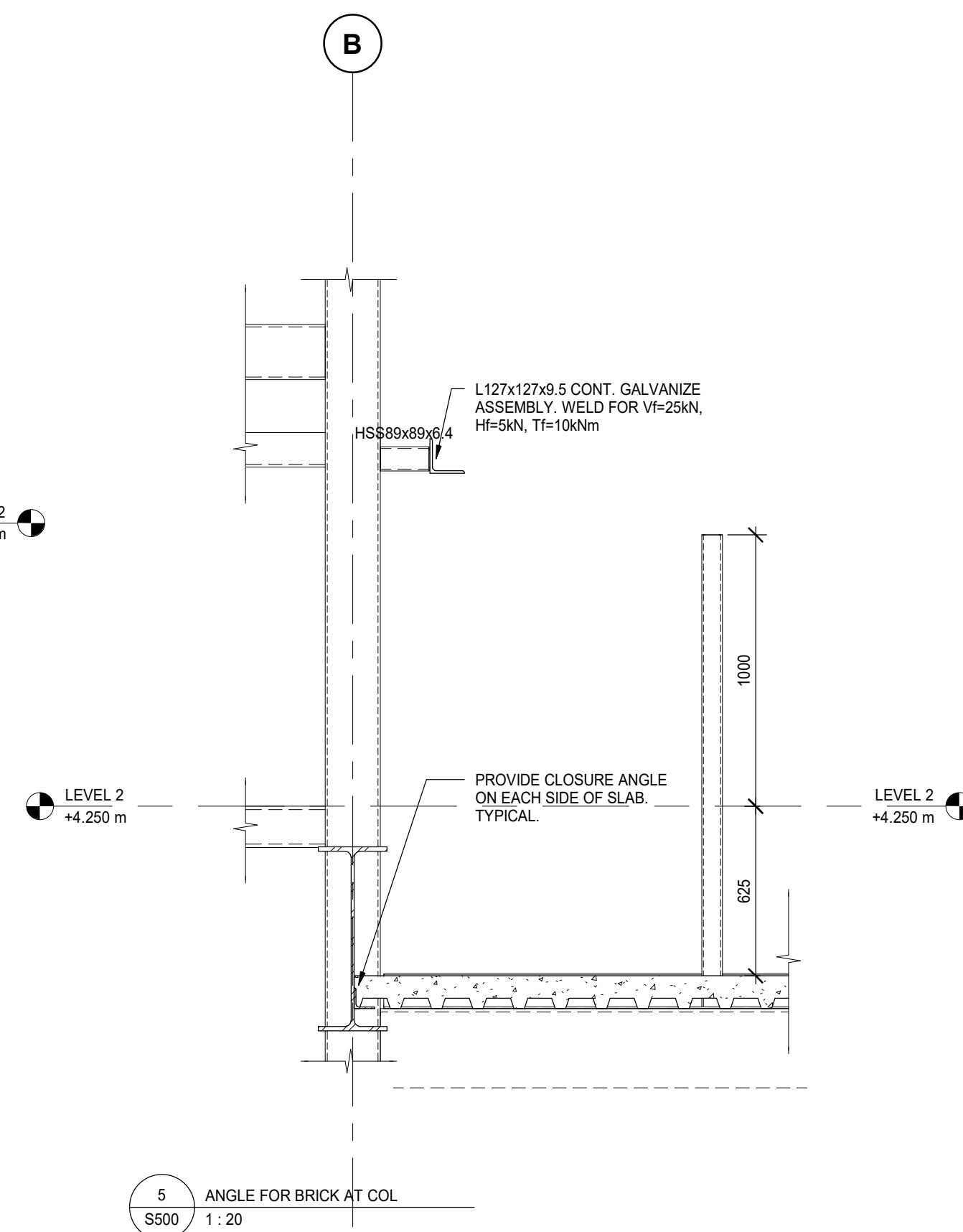
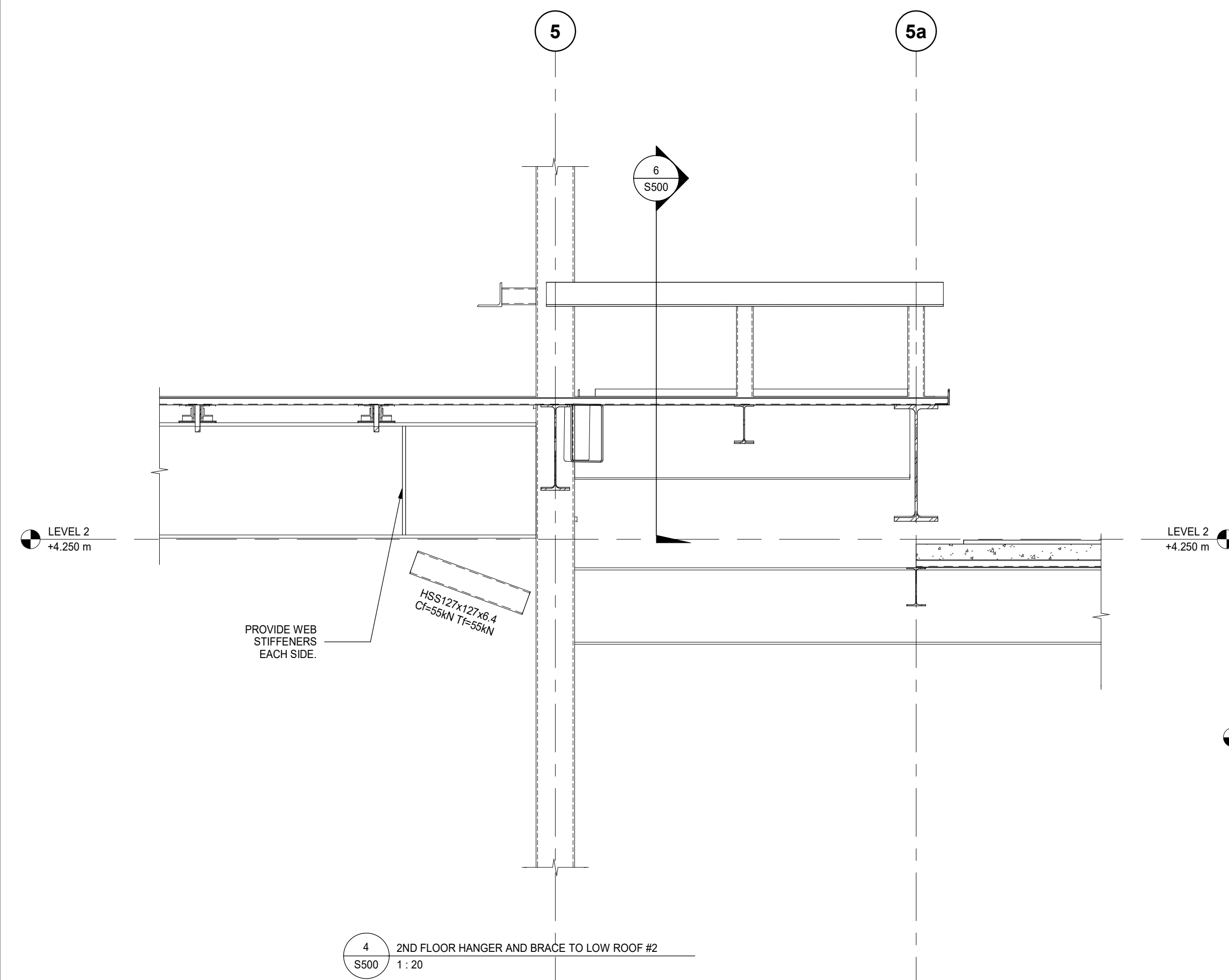
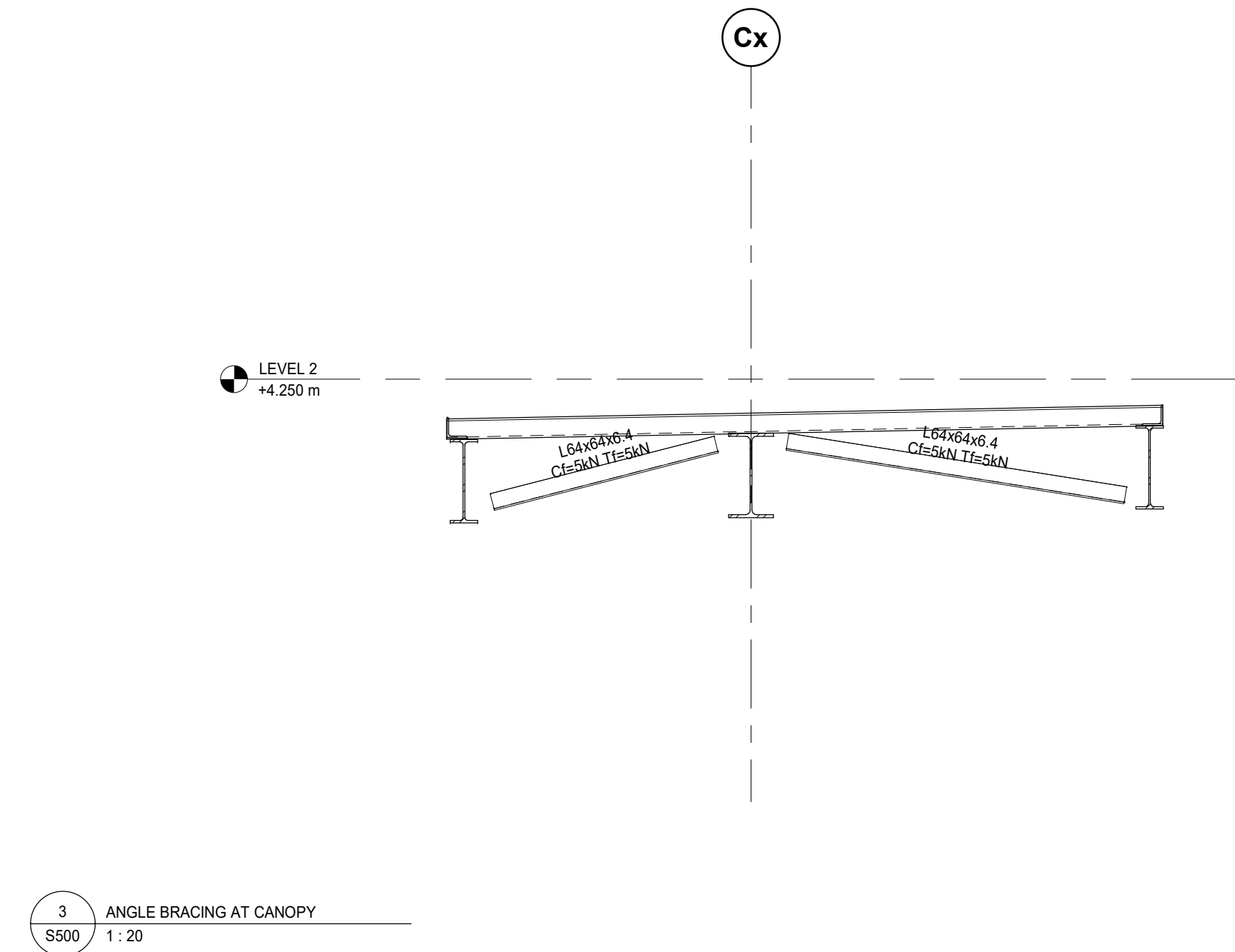
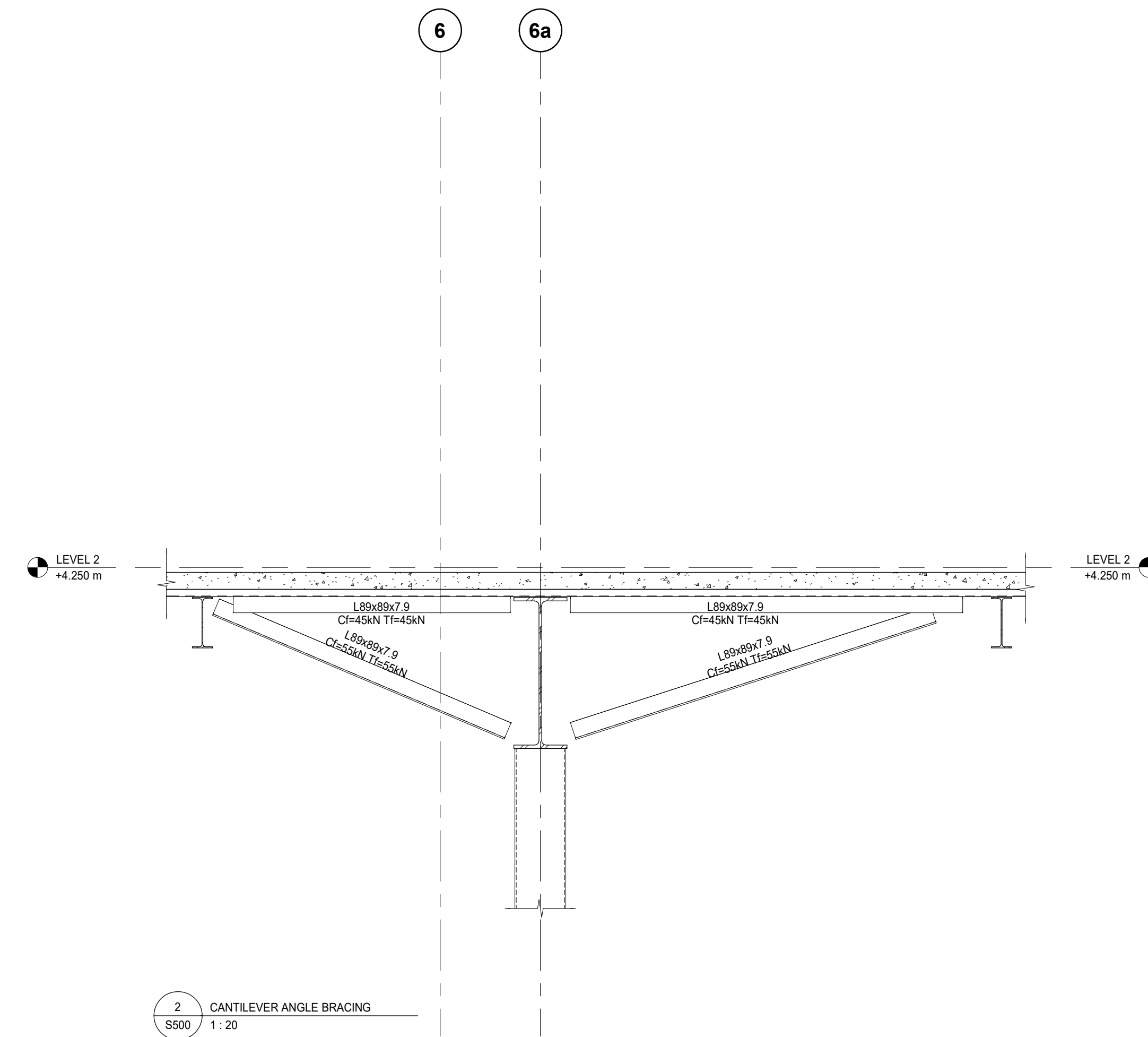
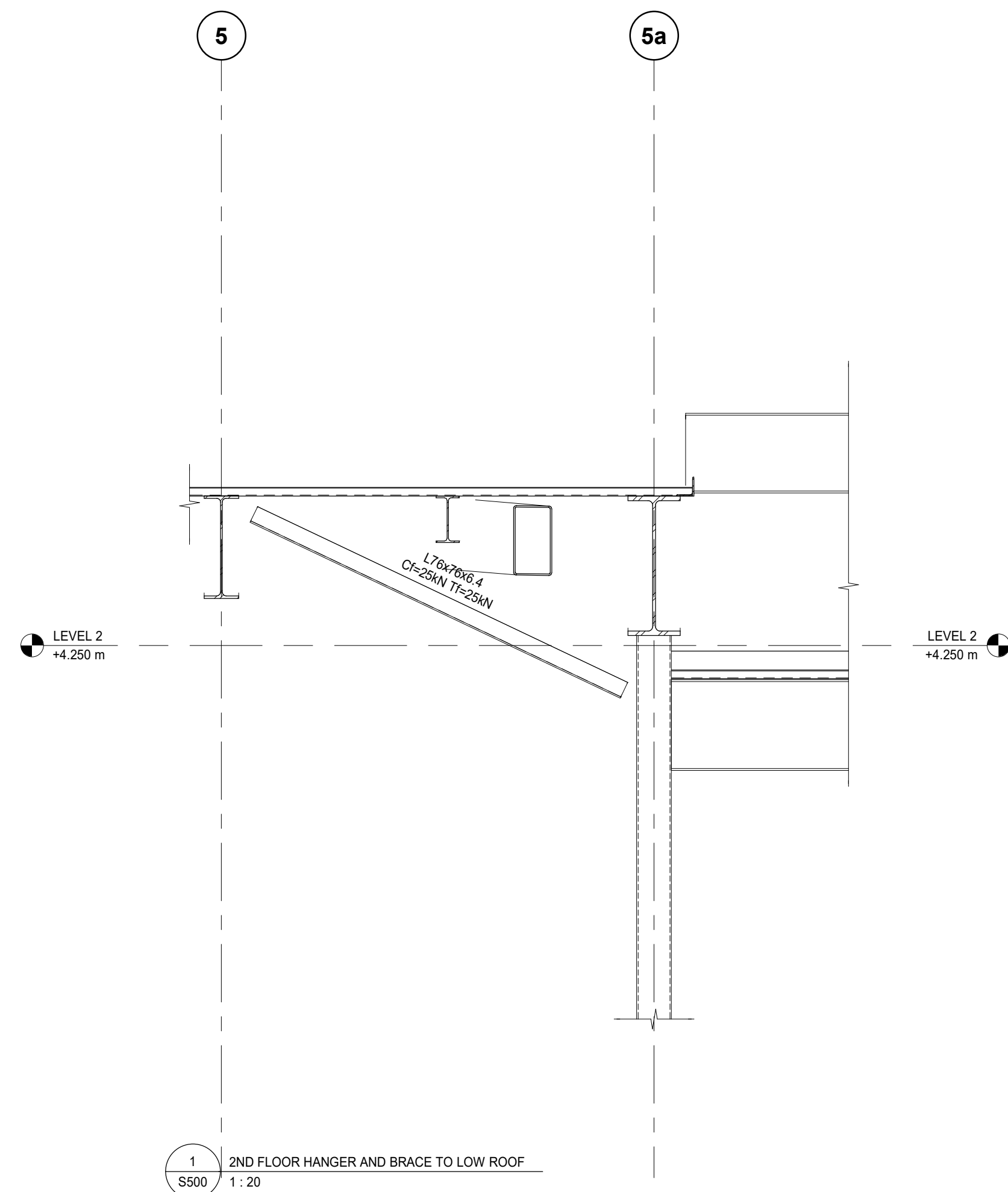
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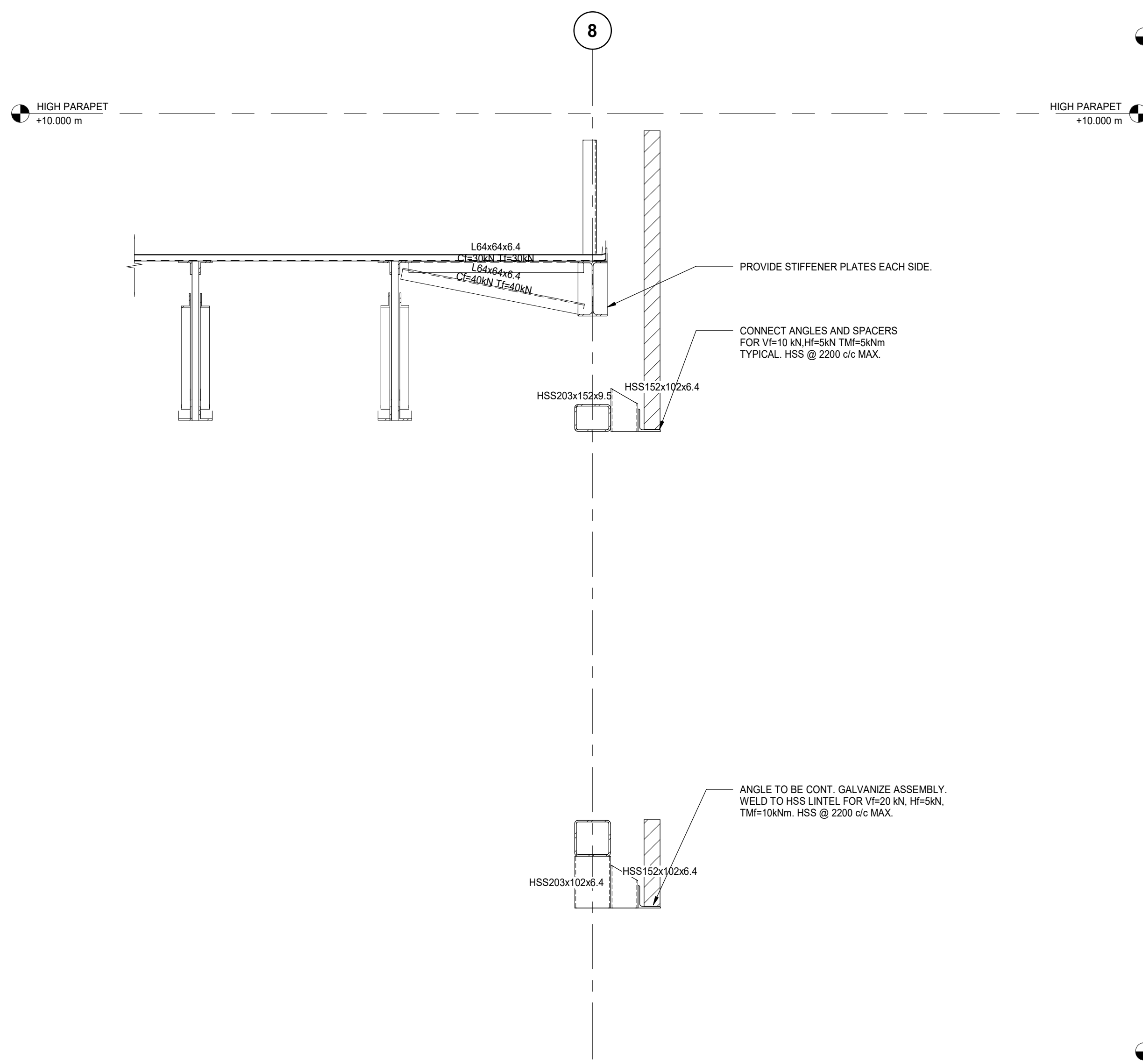


DRAWN: DM
SCALE: 1 : 20
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PROJECT NUMBER: 210112

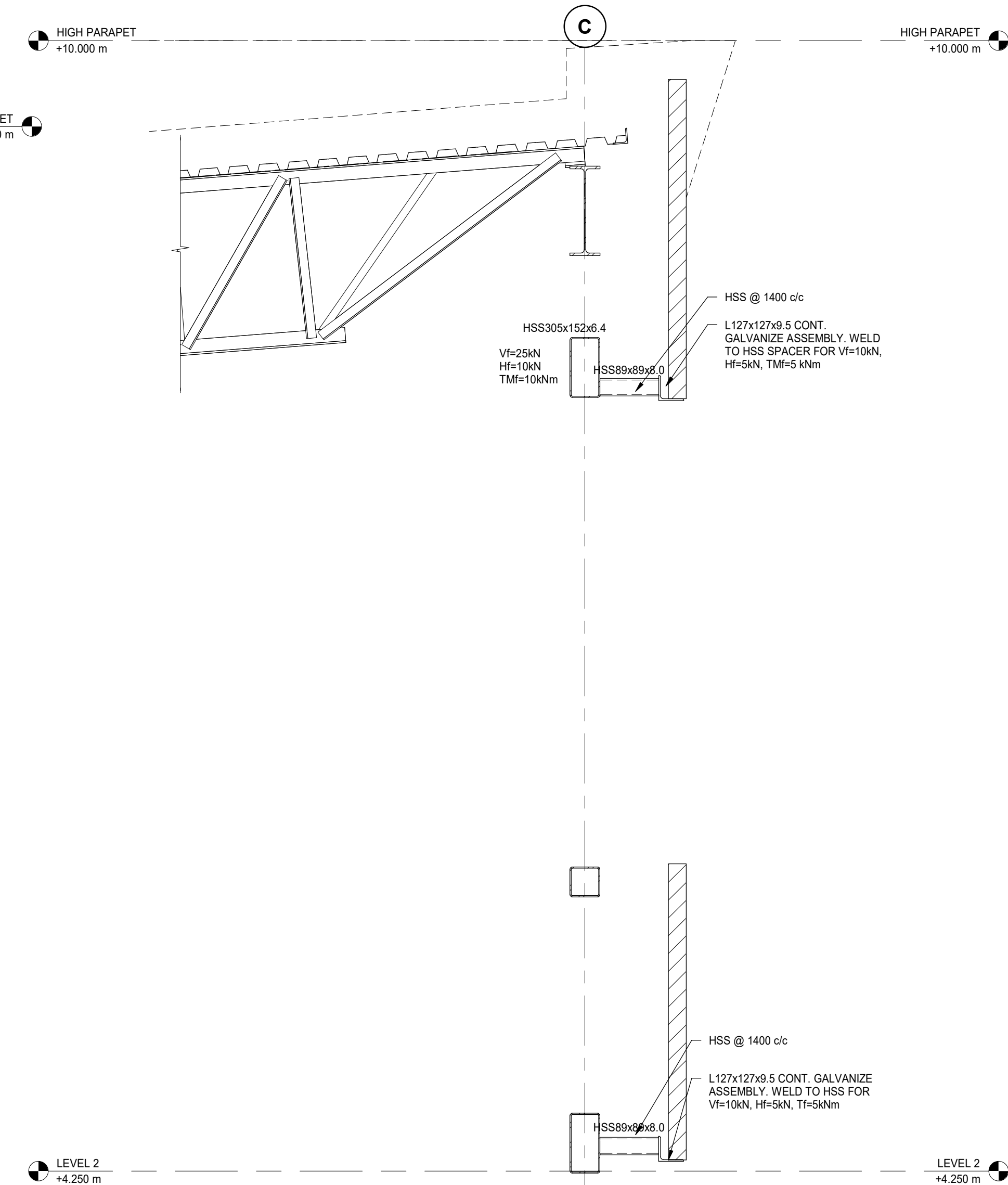
SHEET TITLE:
DETAILED SECTIONS

S500

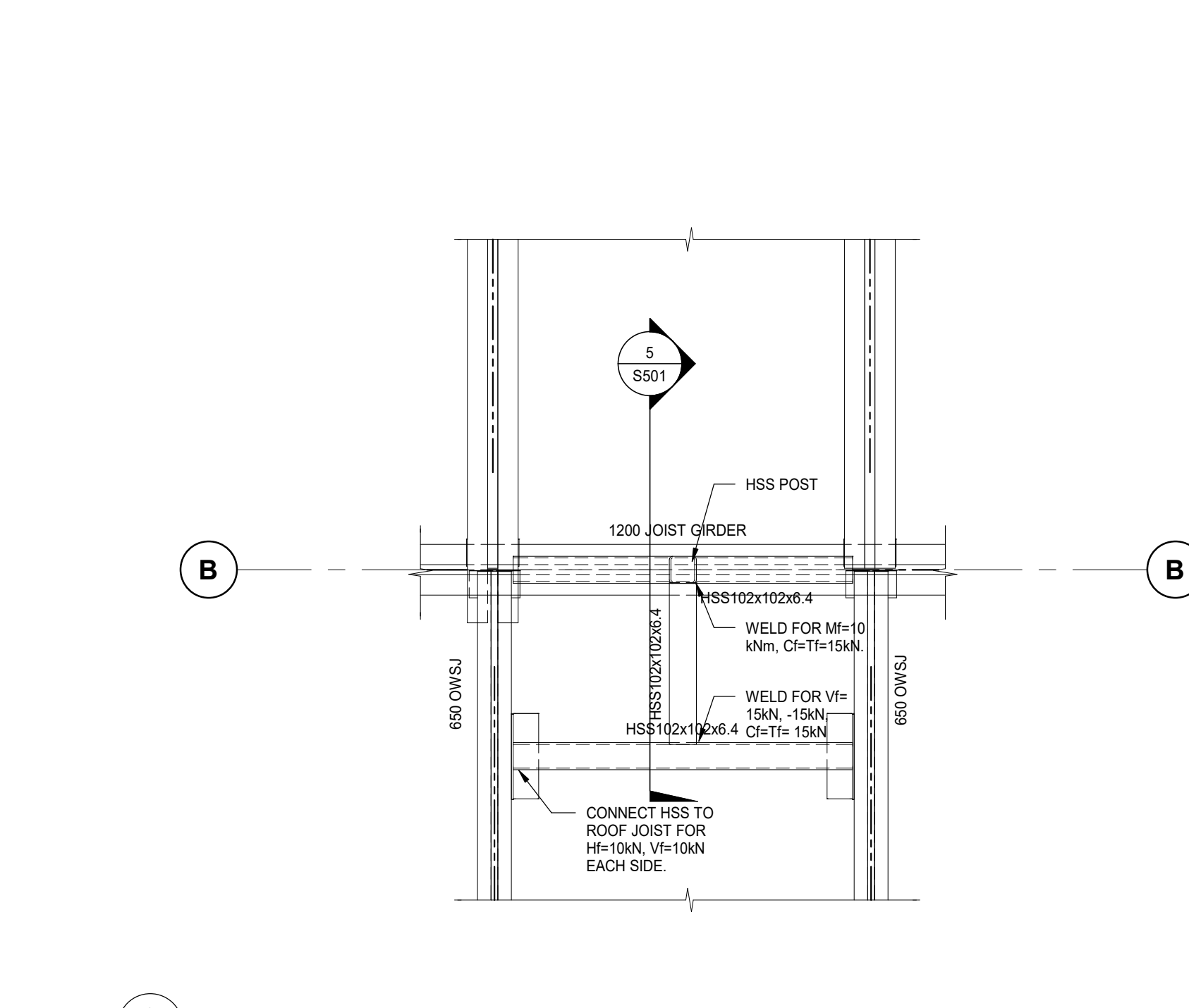




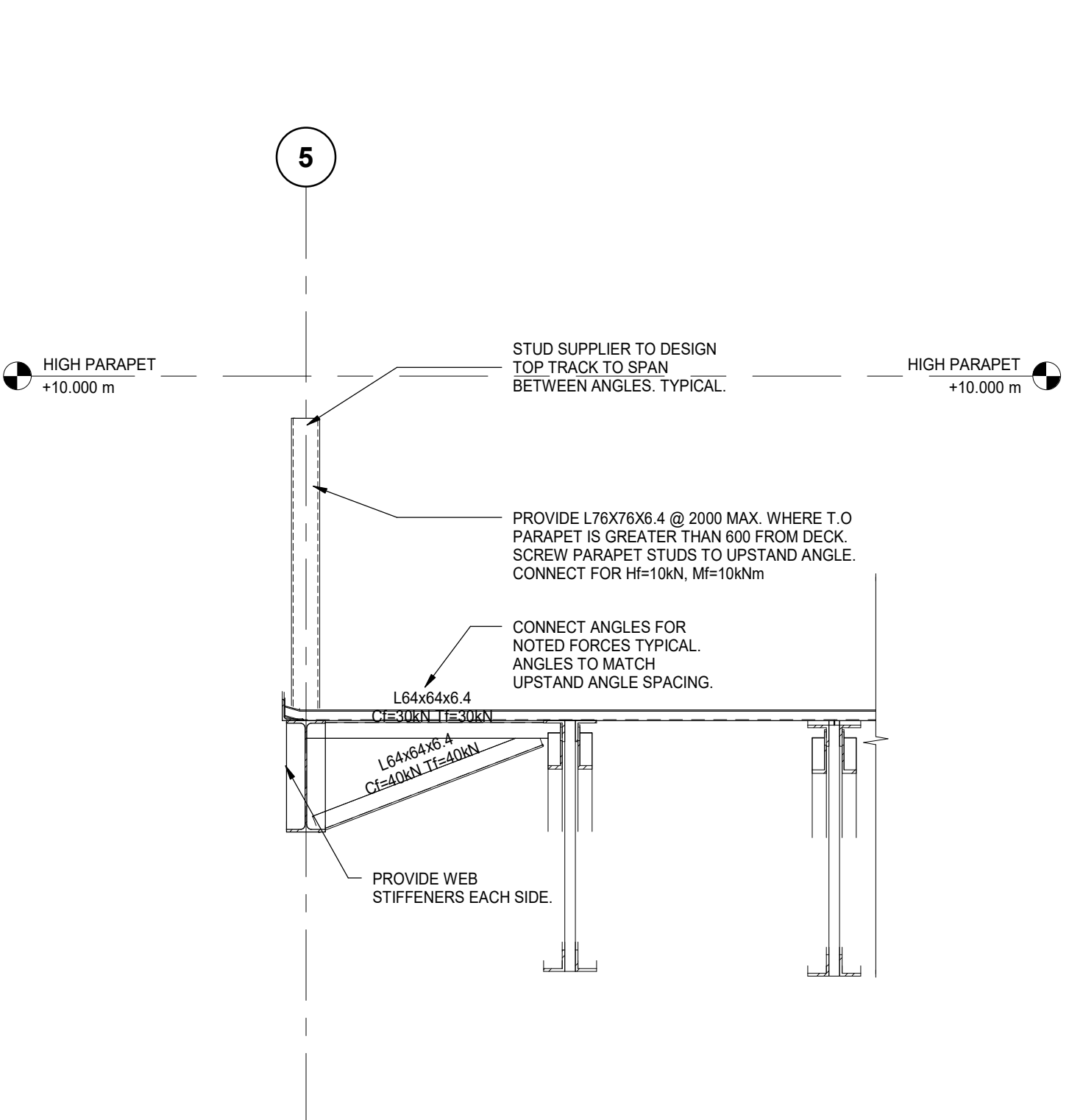
1 EAST SKN AT BEAM
S501 1:20



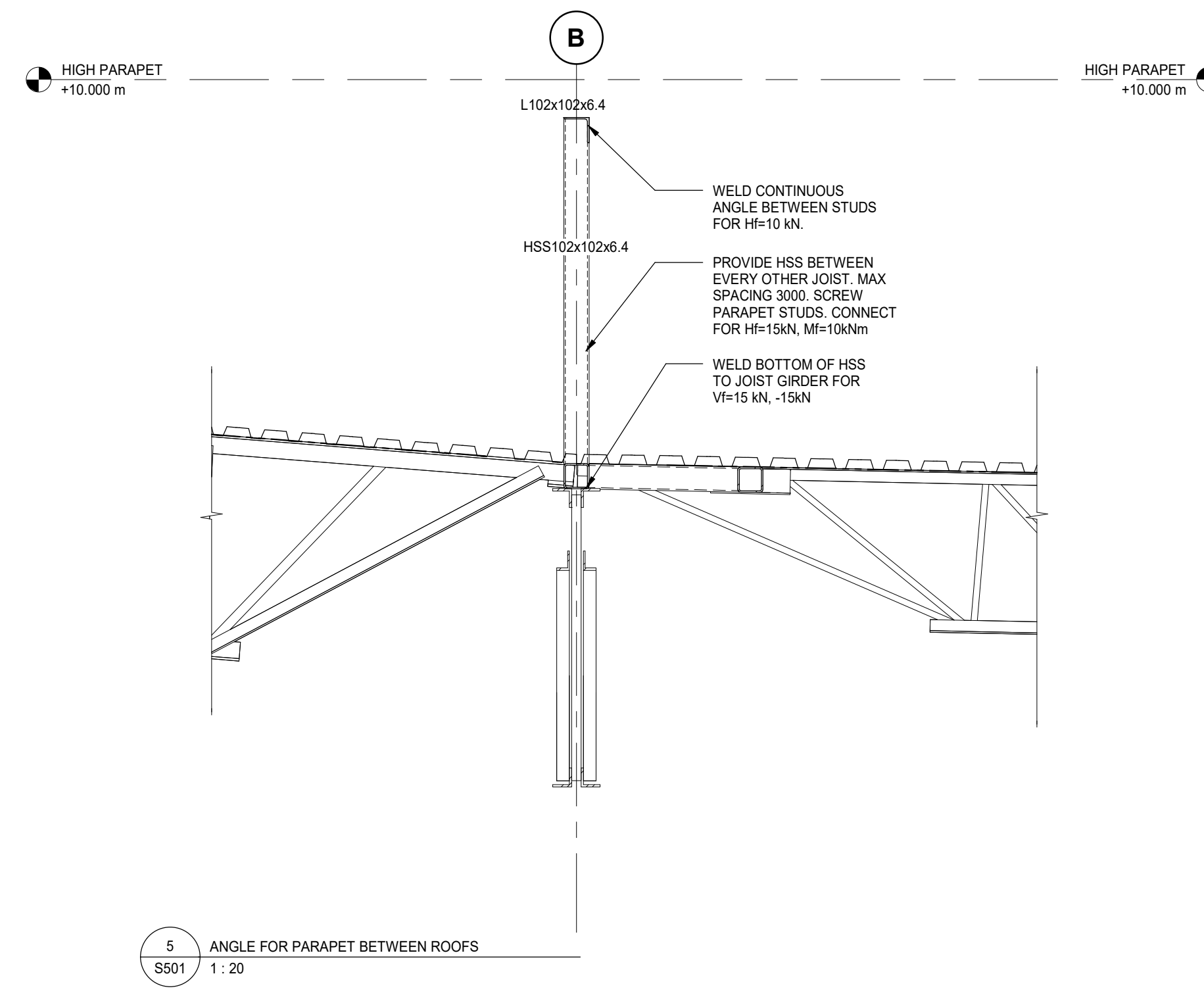
2 NORTH SKN AT BEAM
S501 1:20



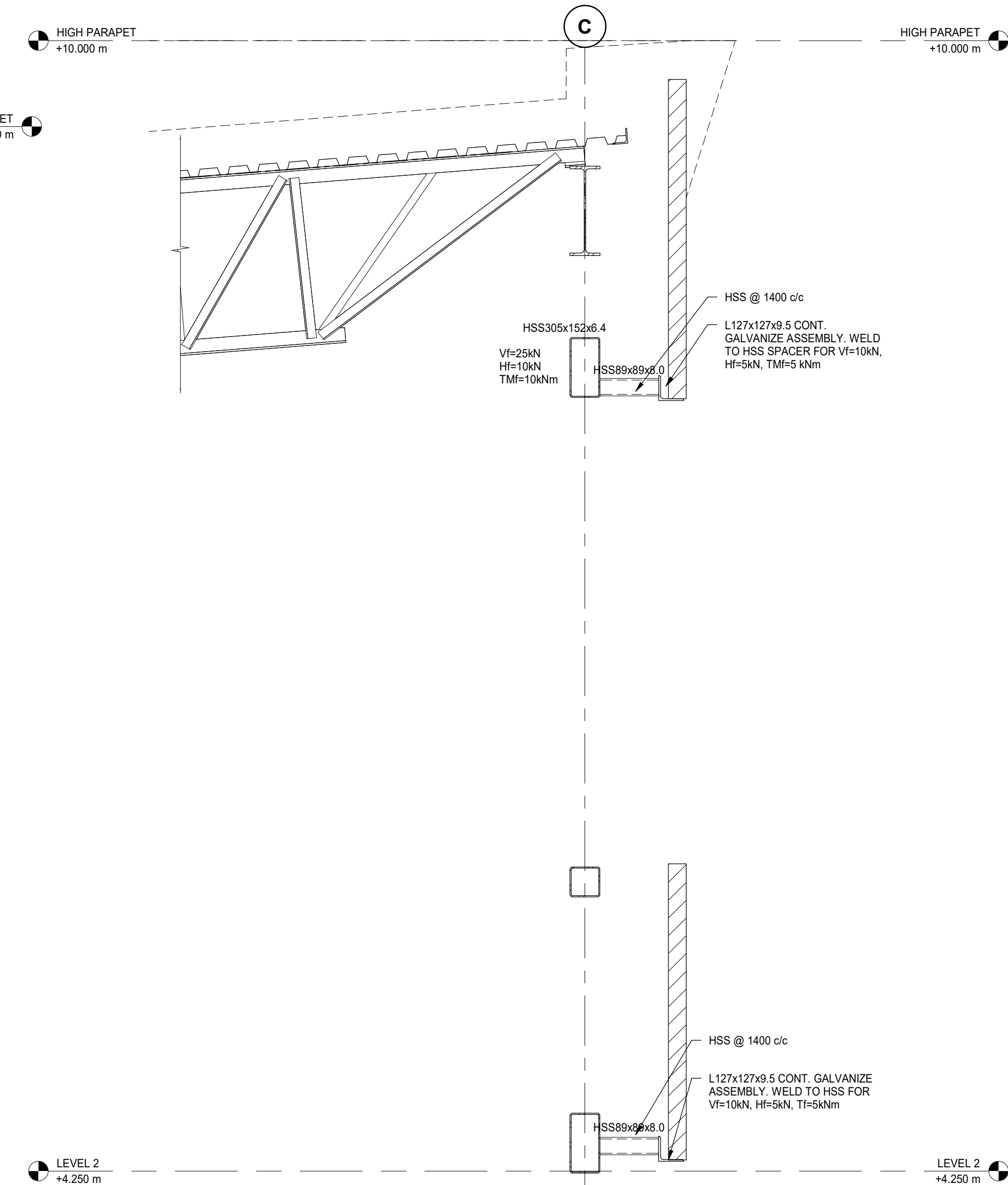
3 PARAPET SUPPORT BETWEEN ROOFS
S501 1:20



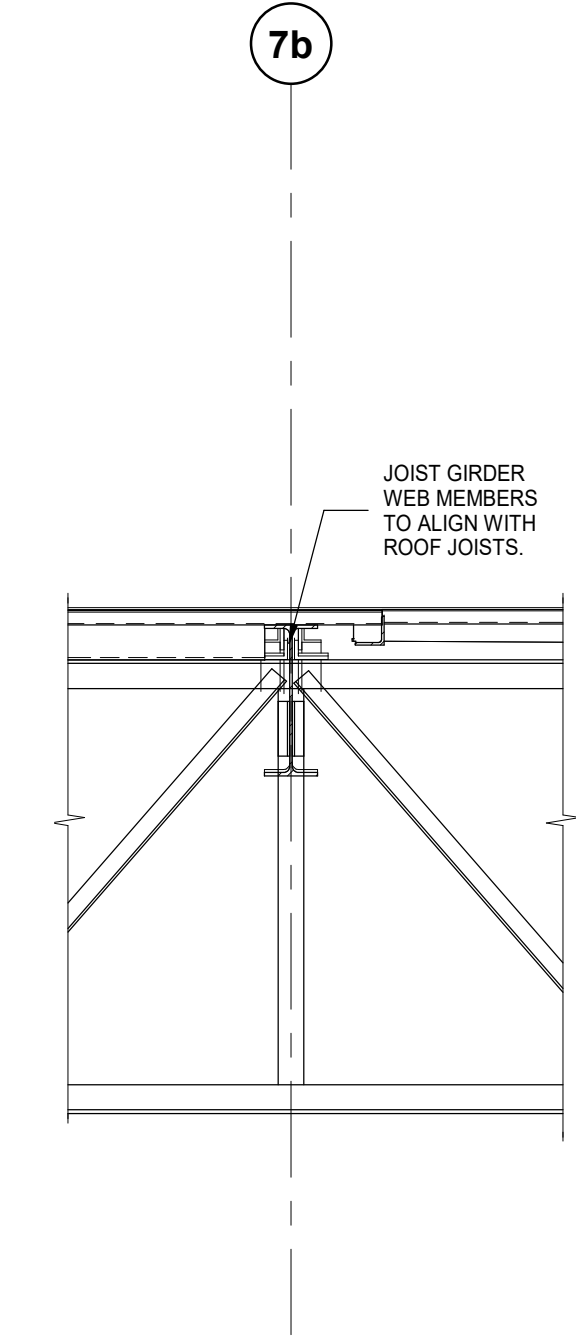
4 HIGH ROOF PARAPET
S501 1:20



5 ANGLE FOR PARAPET BETWEEN ROOFS
S501 1:20



6 ROOF JOISTS TO JOIST GIRDER
S501 1:20



7b

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:
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MARK	DATE	DESCRIPTION
4	2021/08/30	ISSUED FOR TENDER
3	2021/08/25	ISSUED FOR TENDER REVIEW

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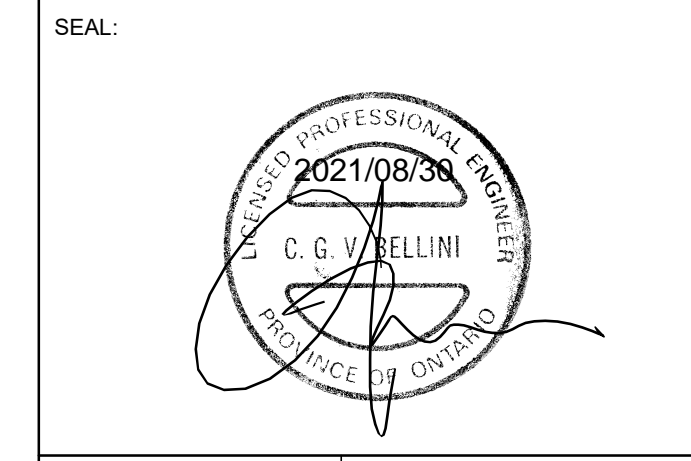
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PROJECT ADDRESS:
132 Burleigh Street



DRAWN:
DM

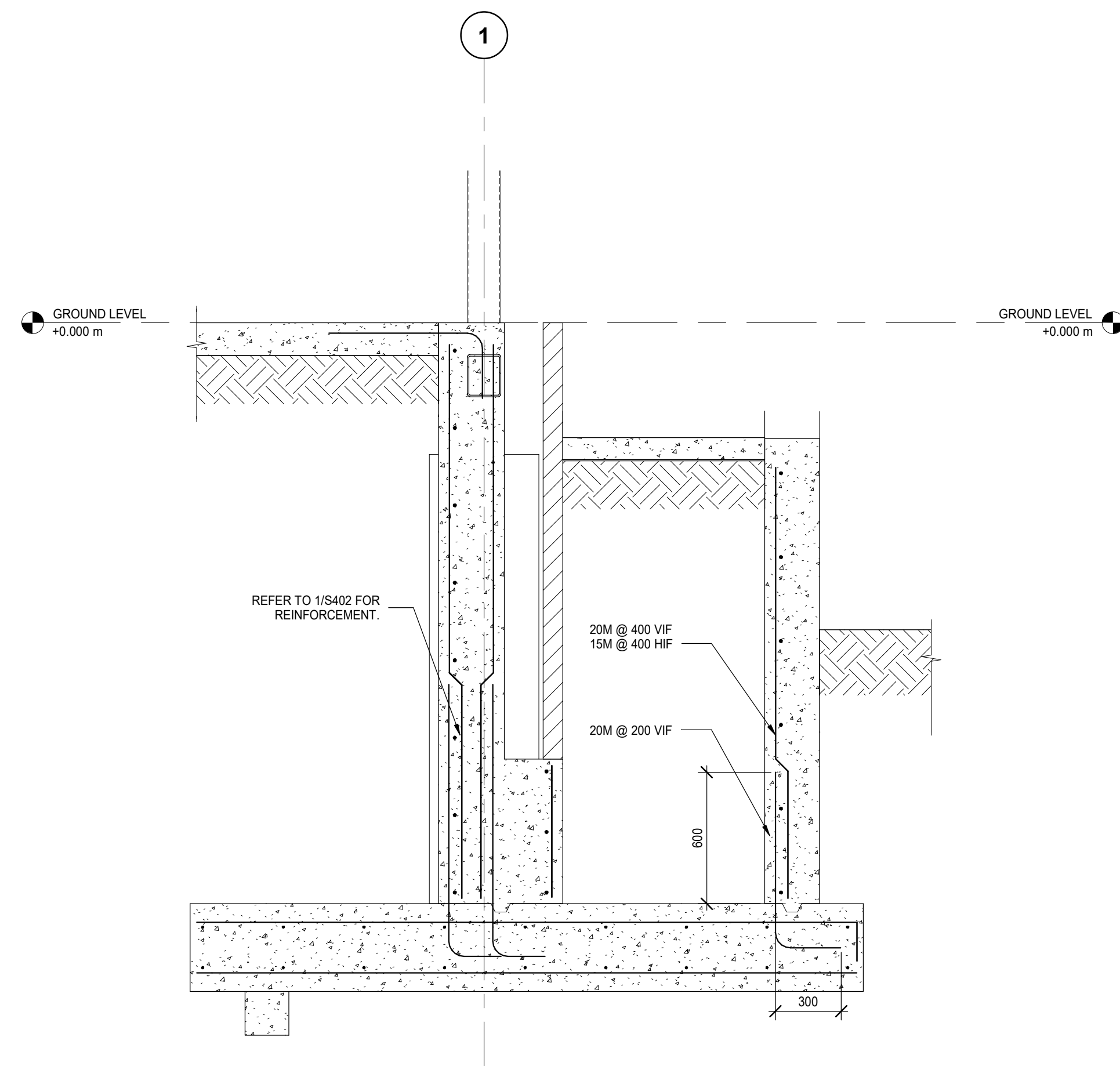
CHECKED:
IFM

SCALE:
1 : 20

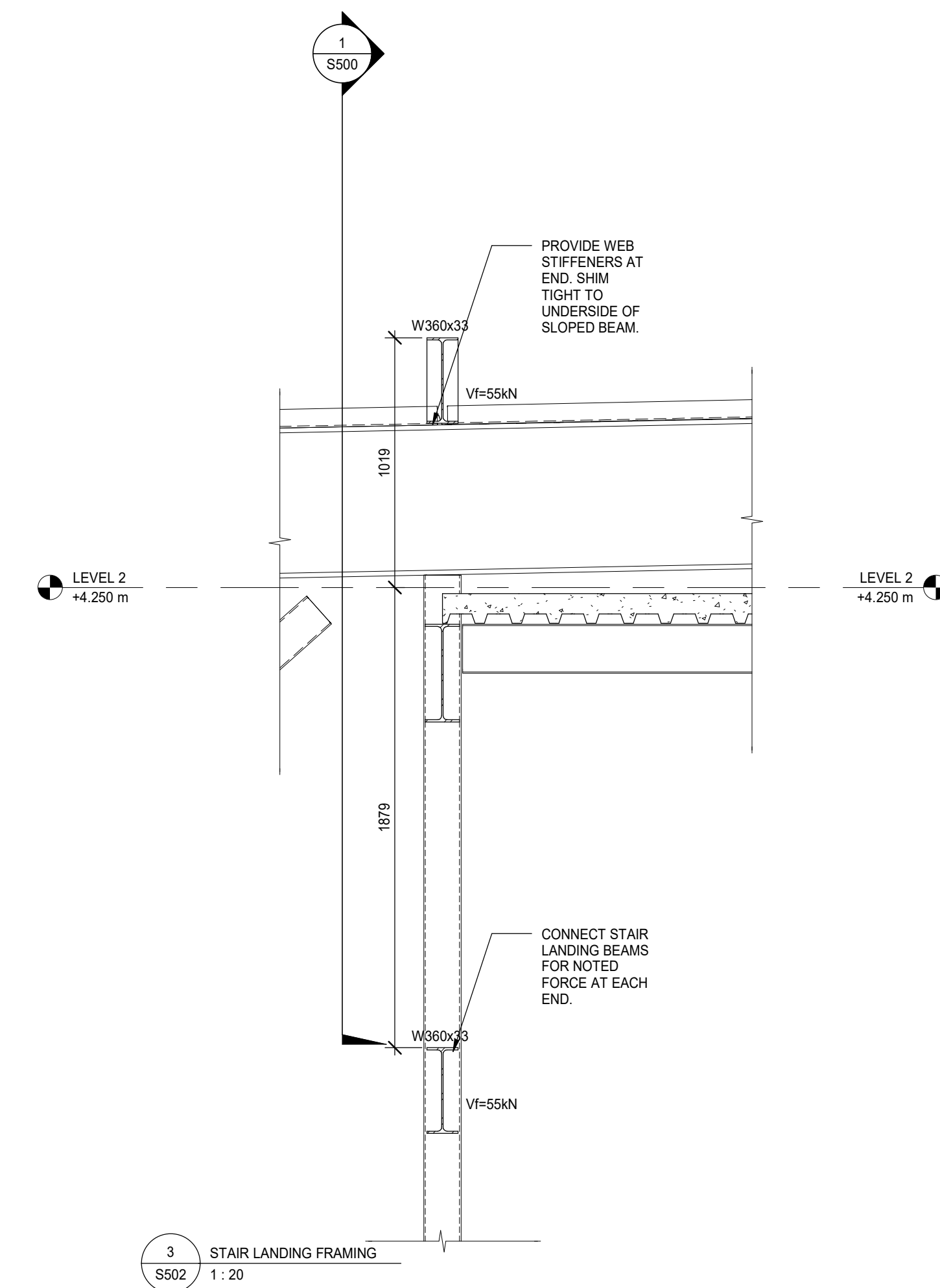
PROJECT NUMBER:
210112

SHEET TITLE:
DETAILED SECTIONS

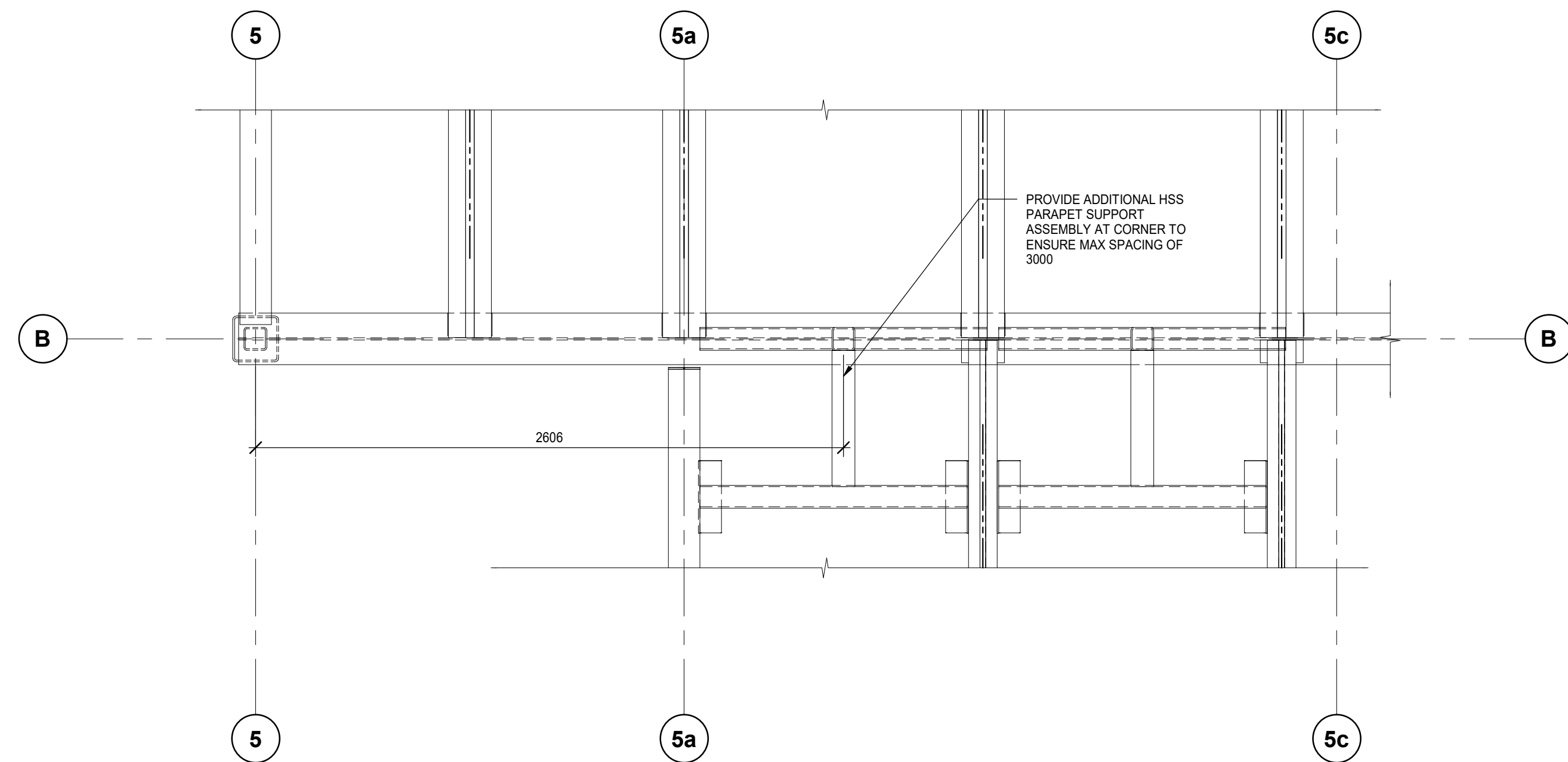
S501



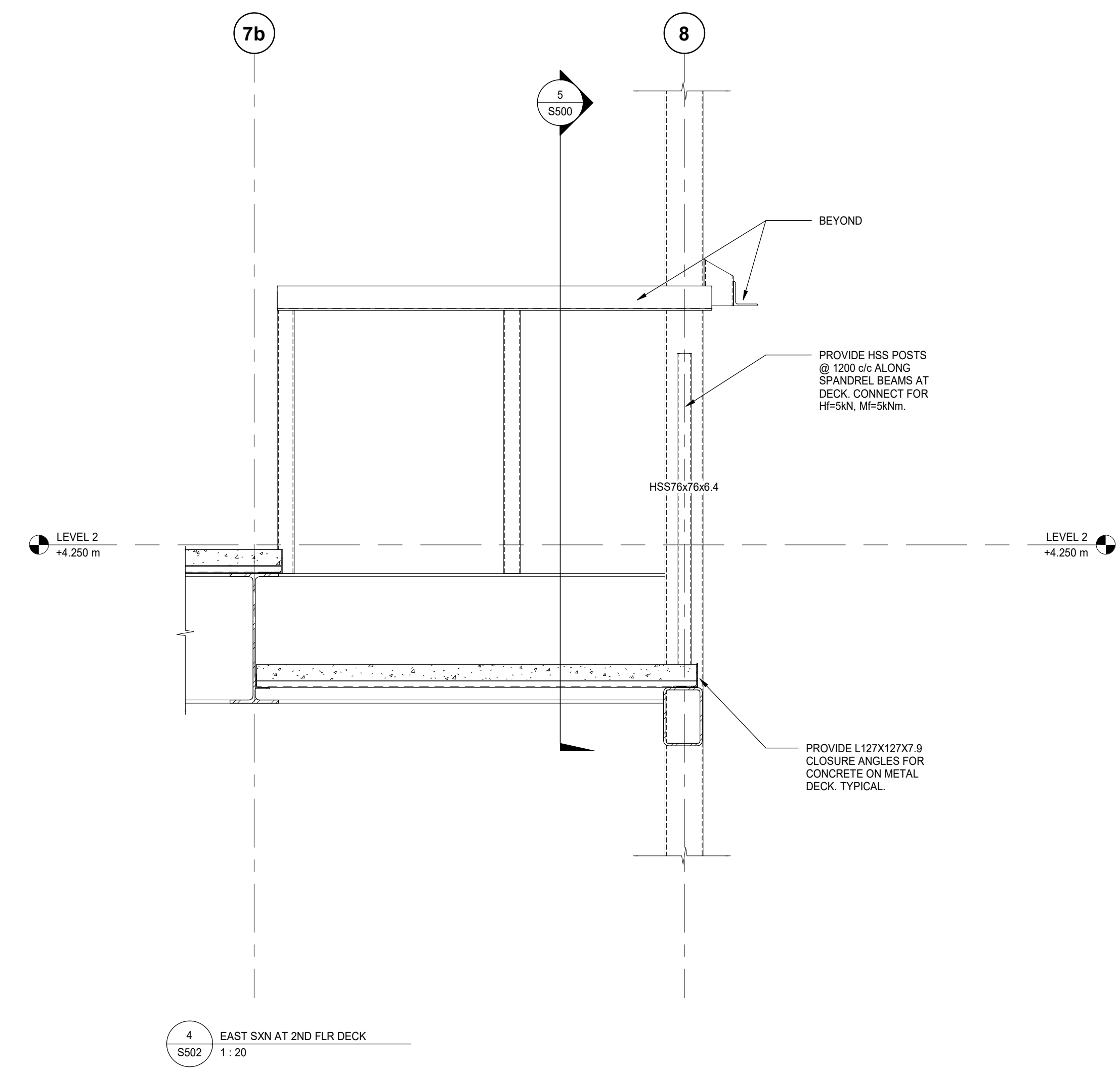
1 RETAINING WALLS AT RAMP
S502 1:20



3 STAIR LANDING FRAMING
S502 1:20



2 ADDITIONAL PARAPET SUPPORT
S502 1:20



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

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SEAL:



DRAWN:
DM

CHECKED:
IFM

SCALE:
1:20

PROJECT NUMBER:
210112

SHEET TITLE:
DETAILED SECTIONS

S502

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.)		HOSE BIBB
	BURIED DOMESTIC COLD WATER (DOM. COLD WATER) (D.C.W.)		WALL HYDRANT (OR NON FREEZE WALL HYDRANT)
	DOMESTIC HOT WATER (DOM. HOT WATER) (D.H.W.)		GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)
	DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (D.H.W.R.)		NON FREEZE POST HYDRANT
	TEMPERED WATER		HOT AND COLD HOSE BIBB
	NON-POTABLE WATER		
	WATER METER		
	TEMPERED MIXING VALVE ASSEMBLY		
	TEMPERED MIXING VALVE CABINET		

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 NITROGEN 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		RUNNING TRAP ABOVE GRADE OR FLOOR
	PUMP SANITARY DISCHARGE		RUNNING TRAP BELOW GRADE OR FLOOR
	GROUND WATER WEEPING TILE (SOLID PIPE)		UPTURNED CLEANOUT
	GROUND WATER BELOW WEEPING TILE (PERFORATED - DASH PIPE)		HORIZONTAL CLEANOUT
	CLEANOUT IN RISER		
	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		REVISION BUBBLE
	REVISION NUMBER		
	R.I.O. ROUGH IN ONLY		N.O. NORMALLY OPEN
	R.I.C. ROUGH IN AND CONNECT		N.C. NORMALLY CLOSED
	A/D ACCESS DOOR		S.S. STAINLESS STEEL
	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			
3			
4			
5			
6			
7			
8			

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e: sayers@apsley.ca

PROJECT TITLE	
NEW SAYERS FOOD STORE BURLIEGH STREET, APSLEY	

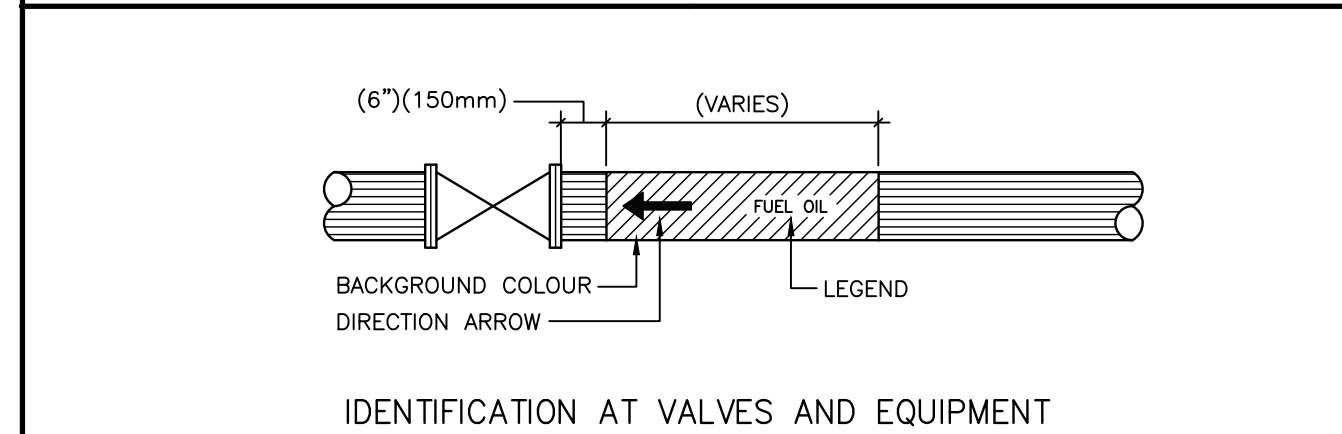
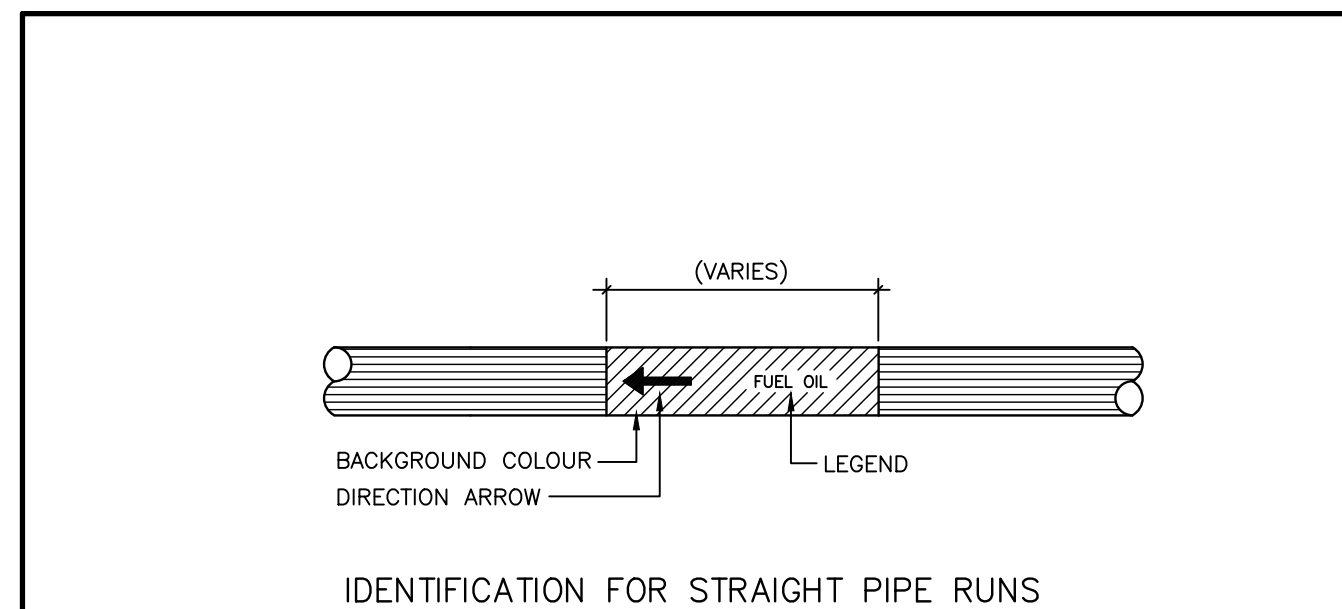
DRAWING TITLE	
DRAWING LIST AND LEGEND	

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

PROJECT NUMBER
21076
DRAWING NUMBER

SEAL

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)

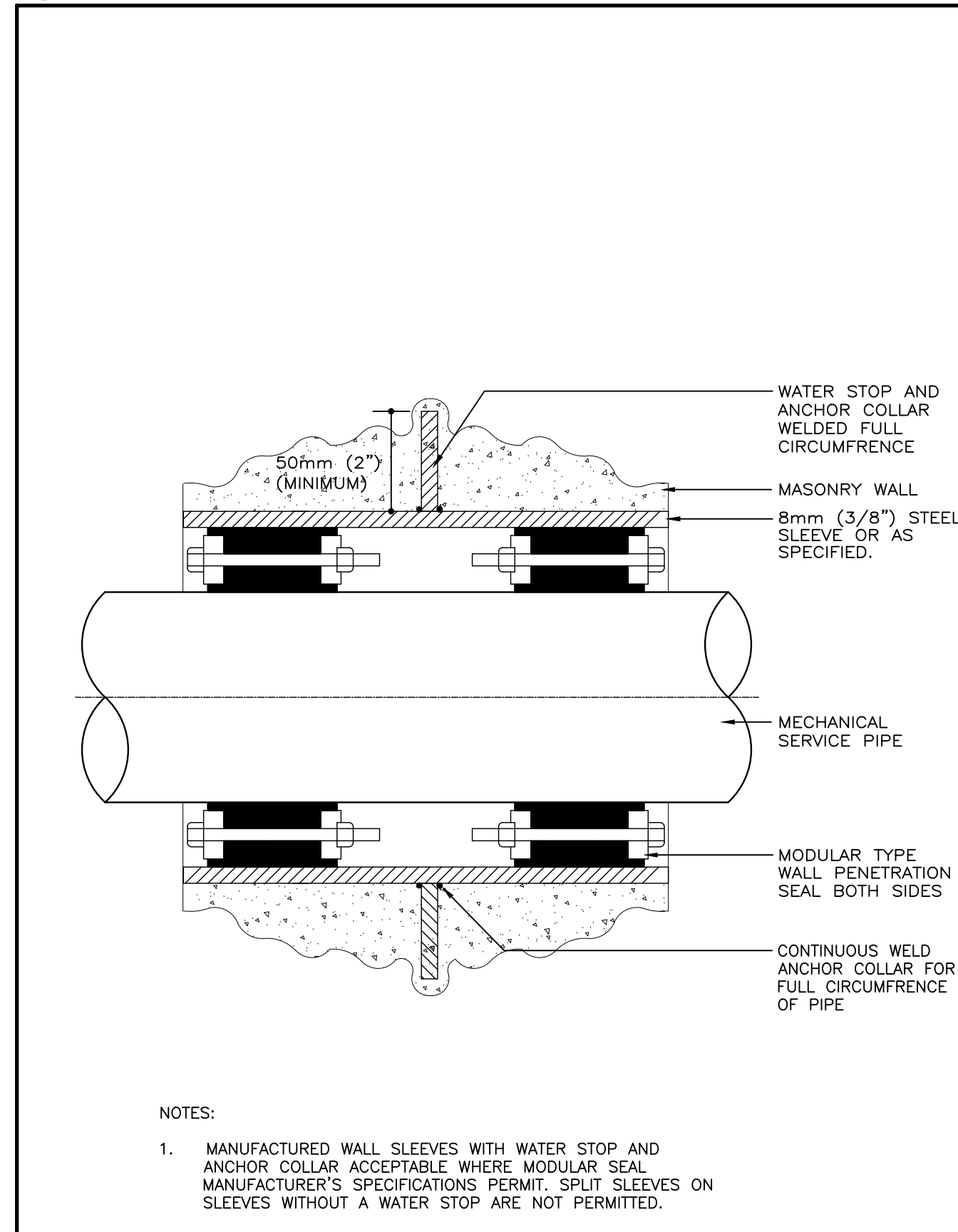
PIPE MARKER LEGEND	VALVE TAG LEGEND	BACKGROUND COLOUR	LEGEND COLOUR
DOMESTIC COLD WATER	DCW	GREEN	WHITE
DISTILLED WATER	DI.W.	GREEN	WHITE
DEMINERALIZED WATER	DE.W.	GREEN	WHITE
CONDENSER WATER SUPPLY	CS	GREEN	WHITE
CONDENSER WATER RETURN	CR	GREEN	WHITE
CHILLED WATER SUPPLY	CHS	GREEN	WHITE
CHILLED WATER 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]	NECK OR FACE SIZE (MM)	[Symbol]	LINEAR SLOT DIFFUSER
[Symbol]	AIR FLOW (L/S)	[Symbol]	IMPERIAL: CFM[INS.] METRIC: L/s[mm]
[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		
[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		
[Symbol]	HEATING ELEMENT TAG		
[Symbol]	HORIZONTAL UNIT HEATER	[Symbol]	DUCT COIL
[Symbol]	DOWN BLAST UNIT HEATER	[Symbol]	RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
[Symbol]	RADIANT HEATING PANEL	[Symbol]	WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE

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

2 M001 AIR HANDLING SYMBOLS (MSD-012.09)

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NORTH ARROW	SEAL

PROJECT TITLE
**NEW SAYERS FOOD STORE
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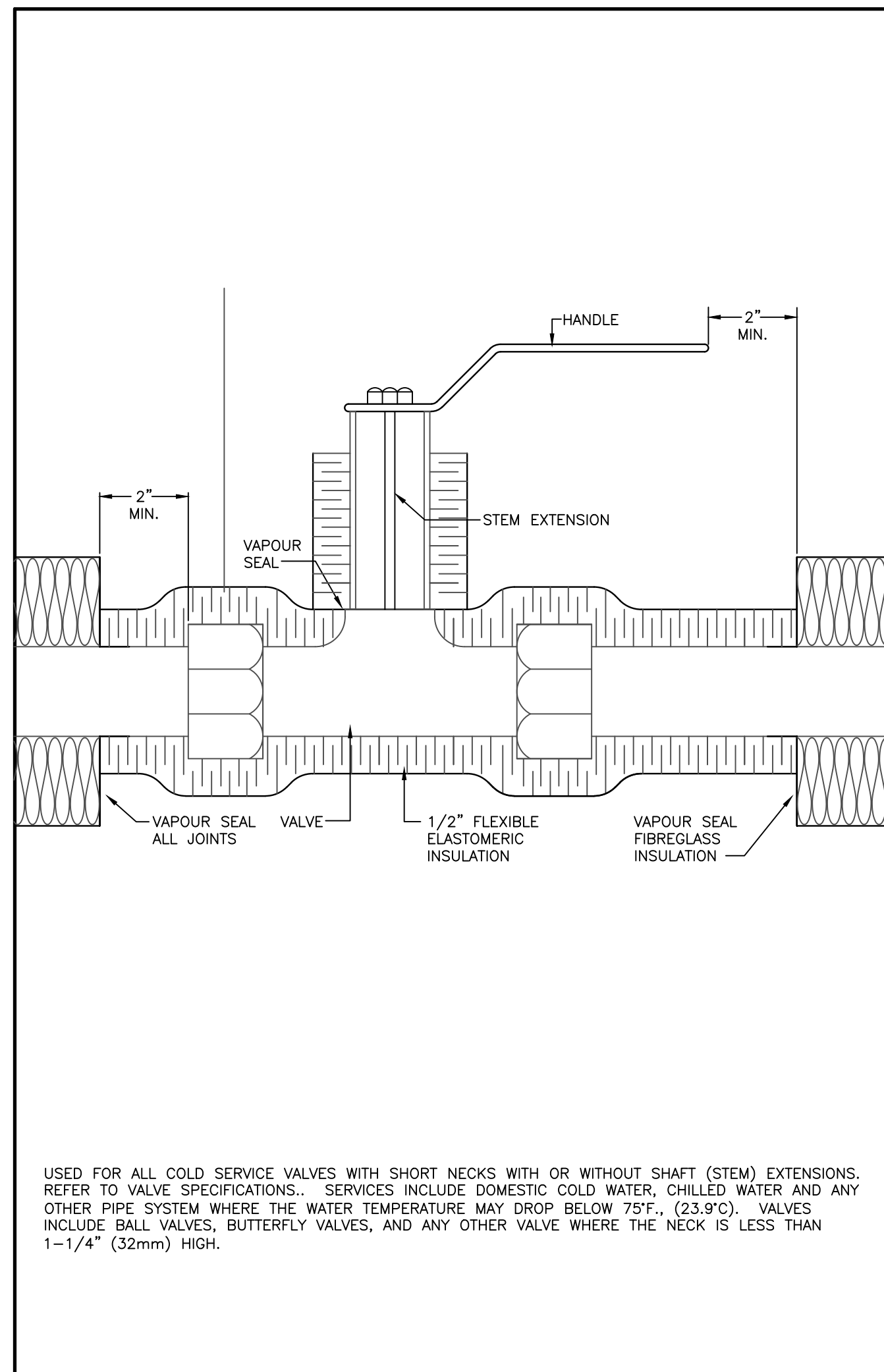
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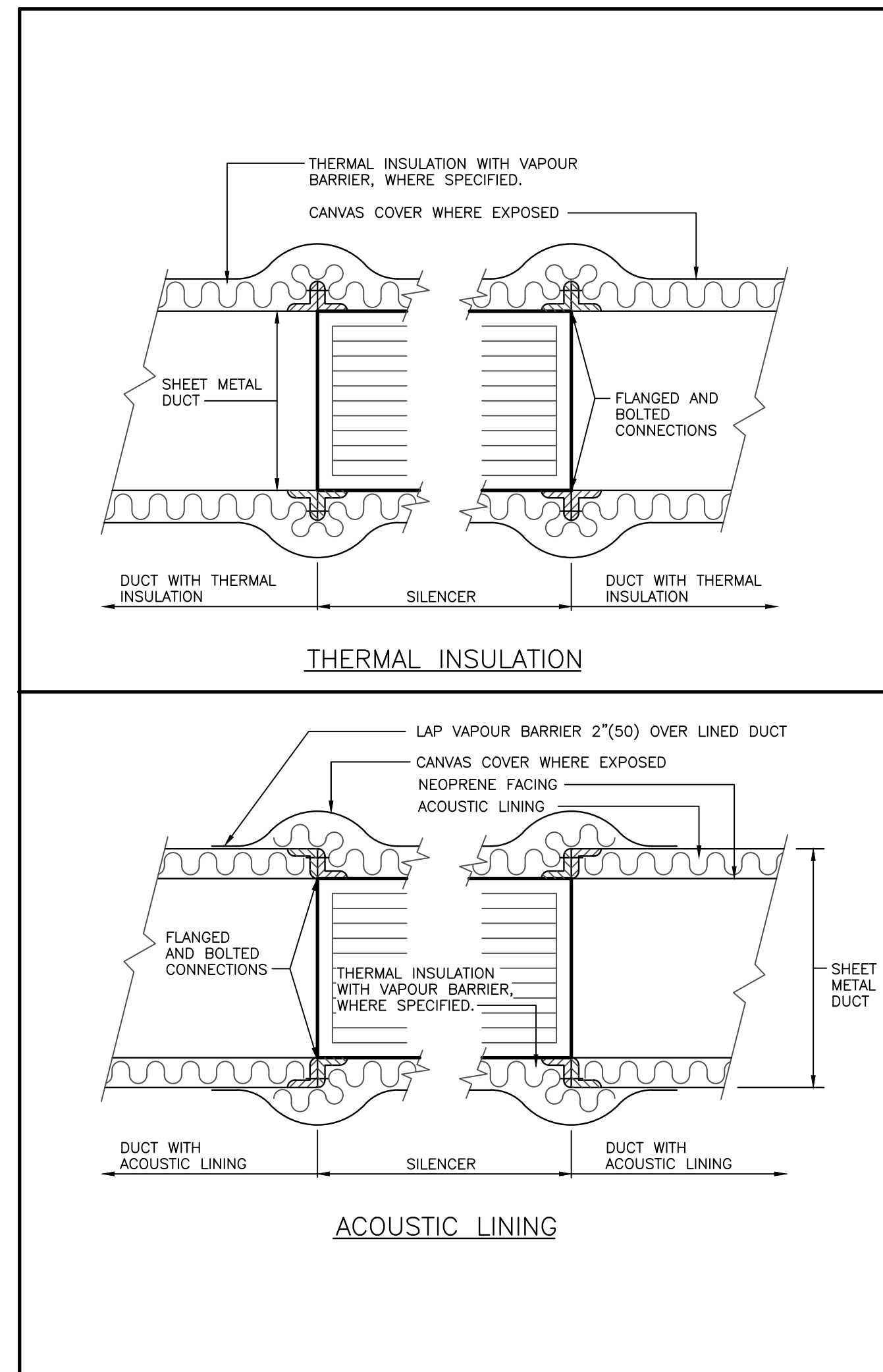
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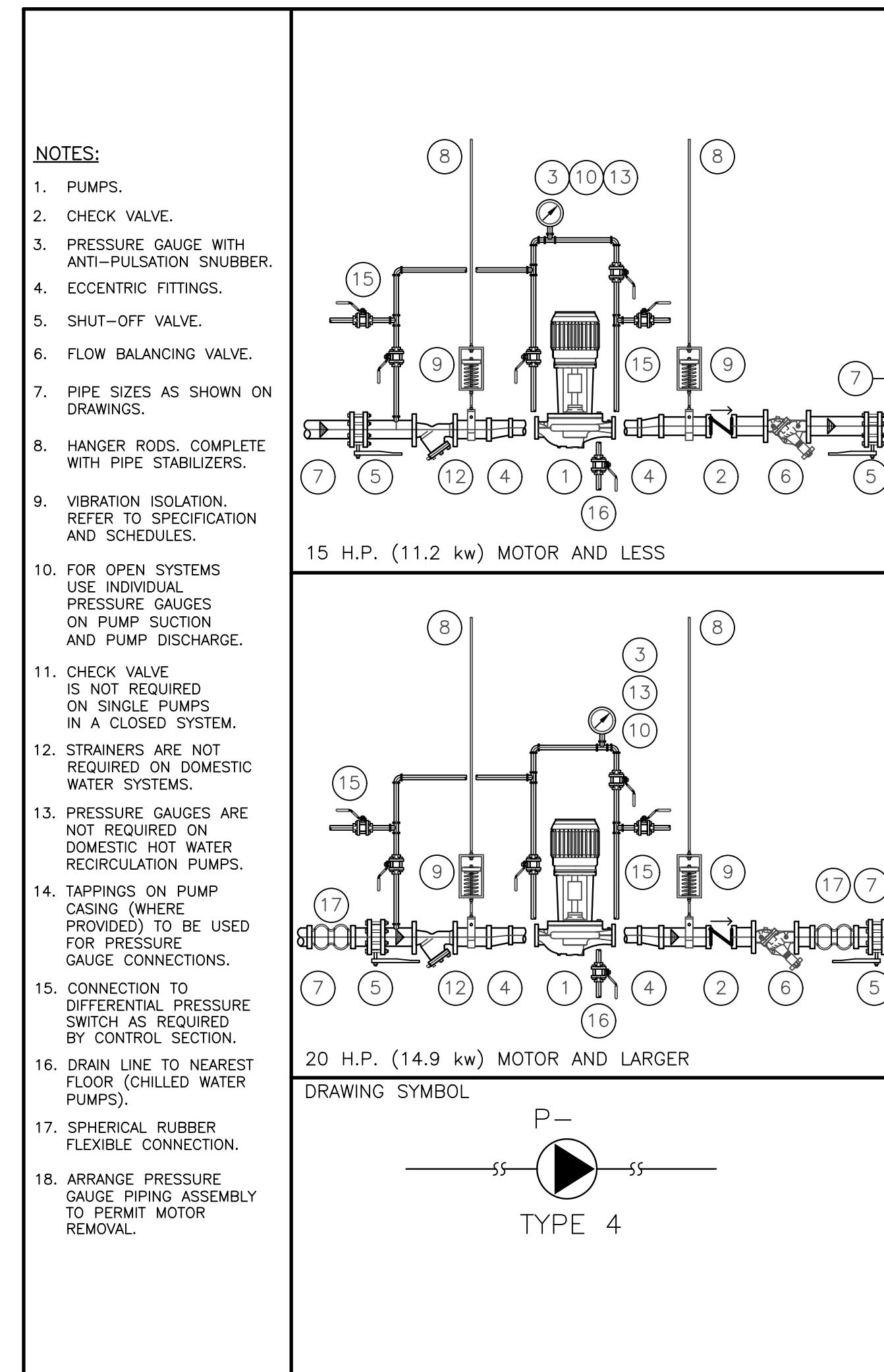
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7 M002 INSULATION AT COLD VALVES WITH SHORT NECKS (MSD-250.03)



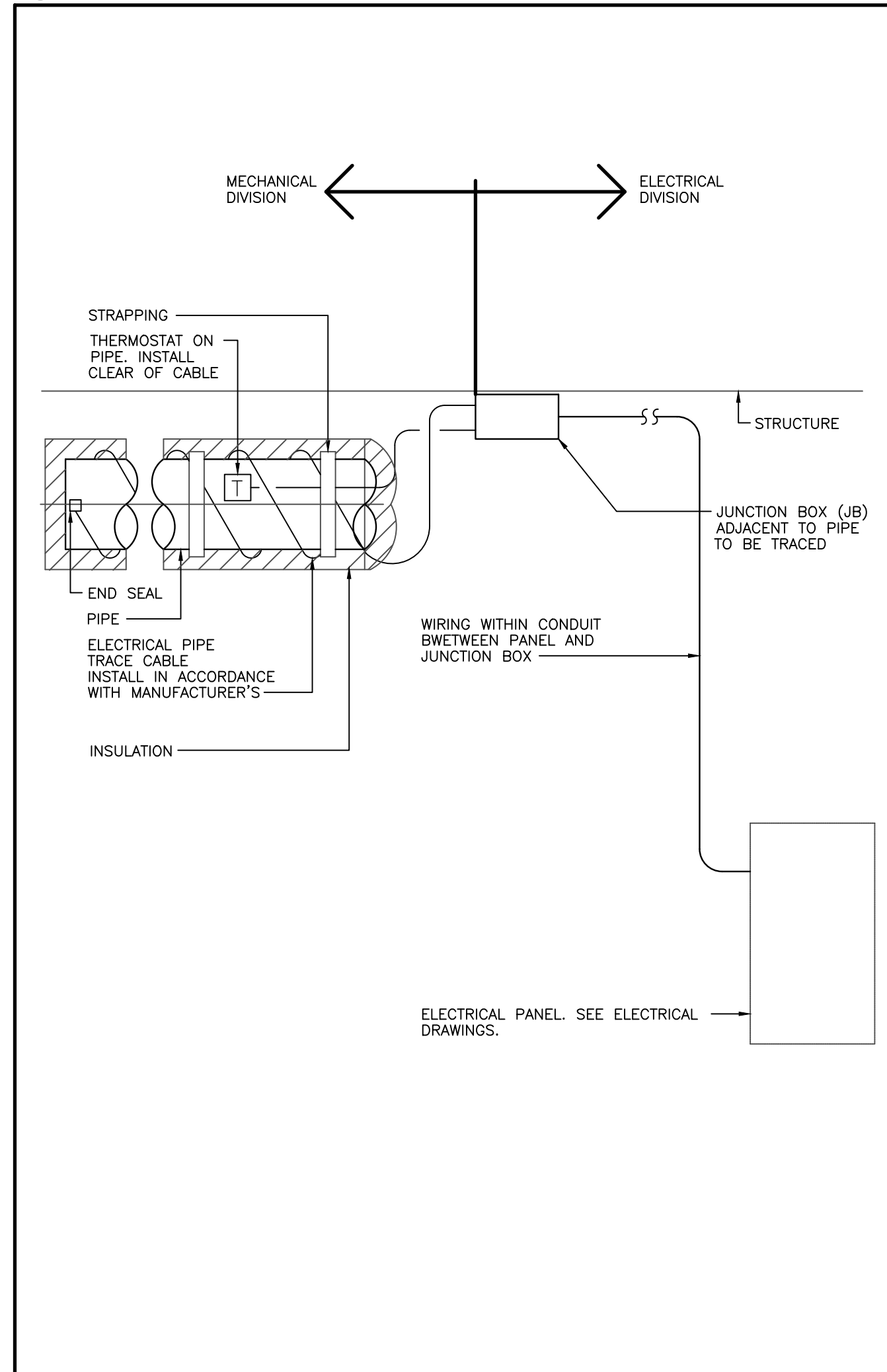
5 M002 SILENCER INSULATION (MSD-250.01)



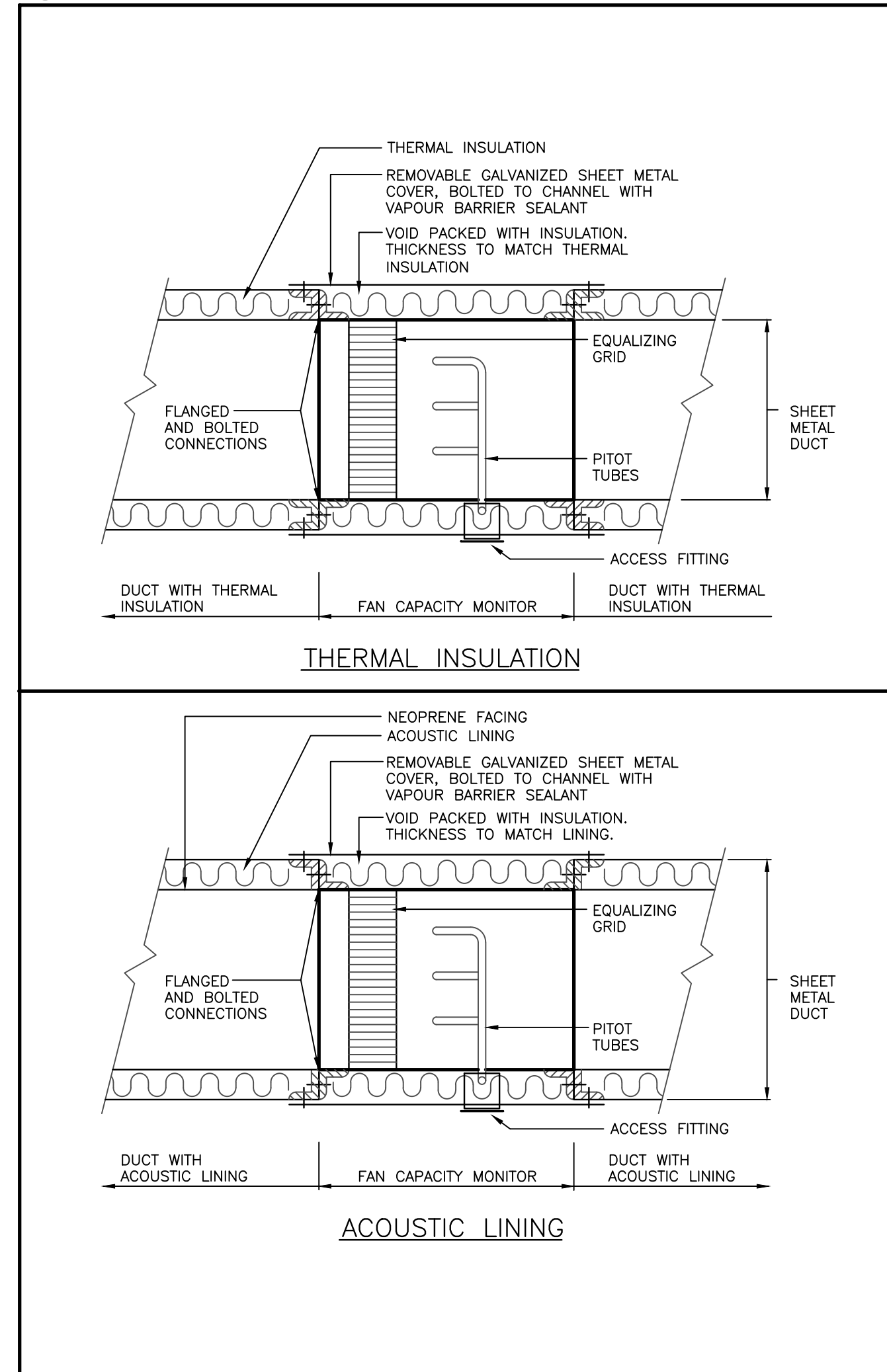
3 M002 CEILING HUNG IN-LINE PUMPS TYPE 4 (MSD-141.04)

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

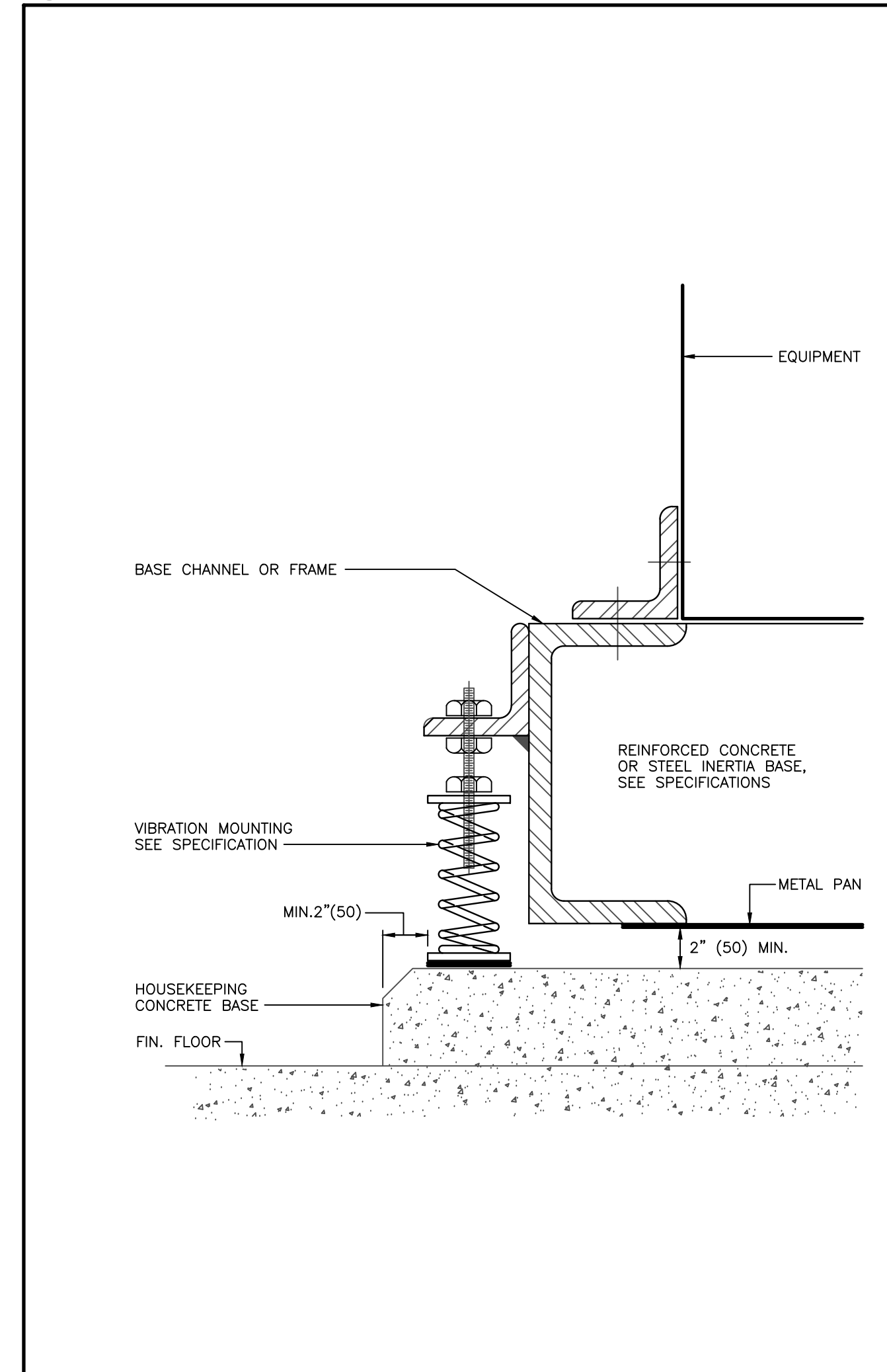
1 M002 PIPE IDENTIFICATION (MSD-058.03)



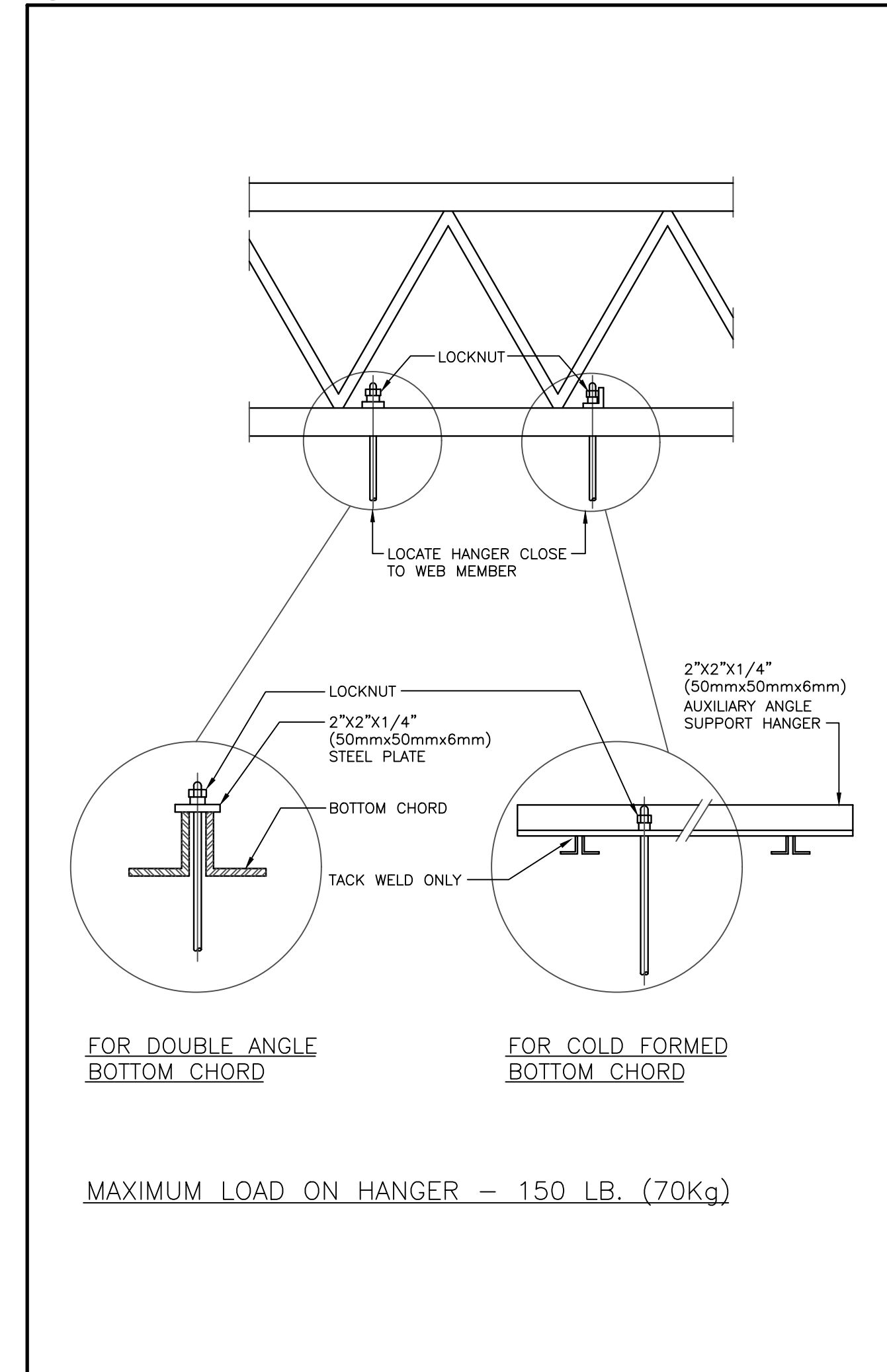
8 M002 ELECTRICAL PIPE TRACING (MSD-250.04)



6 M002 FAN CAPACITY MONITOR INSULATION (MSD-250.02)



4 M002 TYPICAL UNIT BASE WITH VIBRATION ISOLATORS (MSD-200.01)



2 M002 JOIST HANGERS (MSD-094.01)

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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PROJECT TITLE
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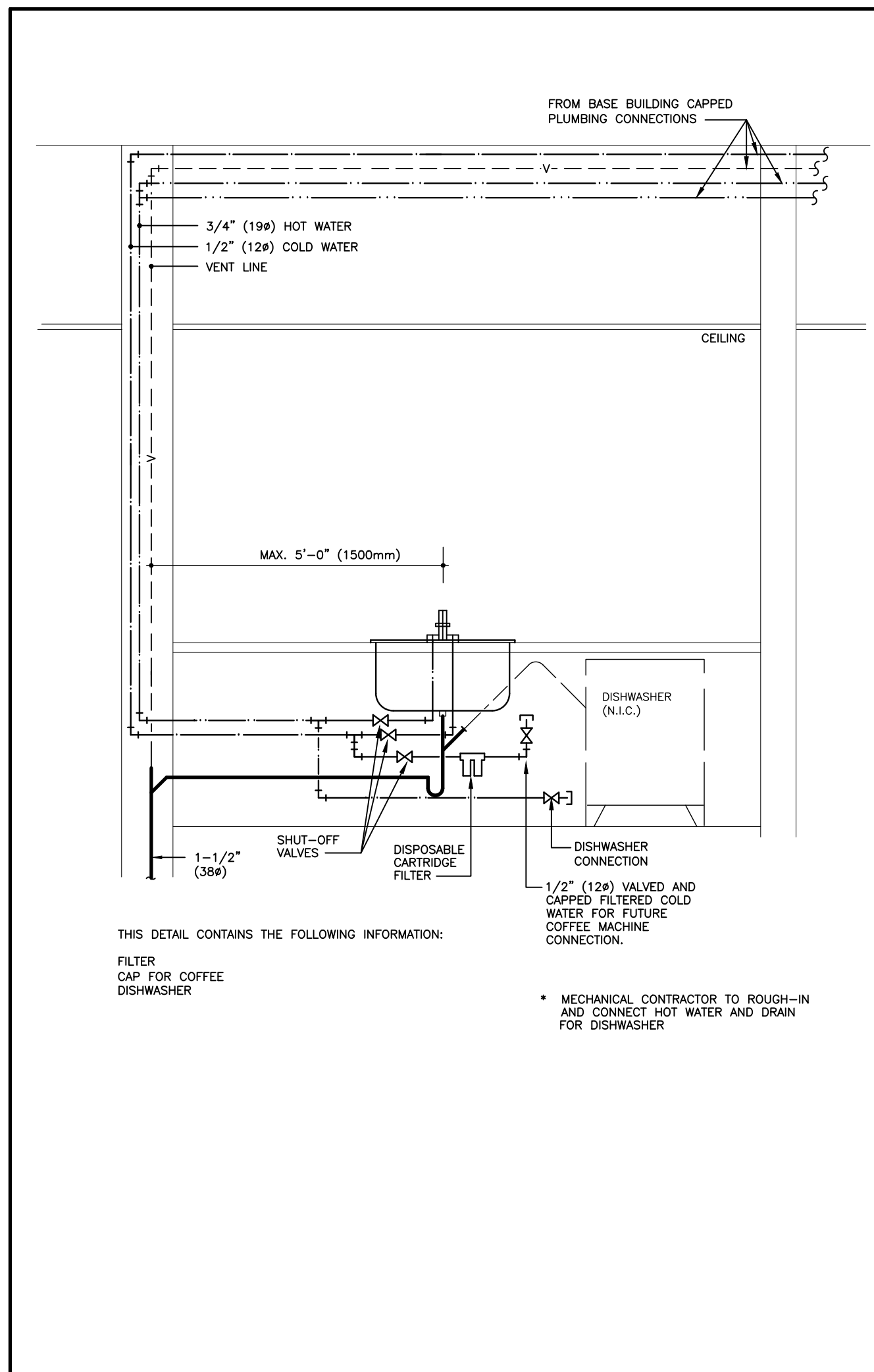
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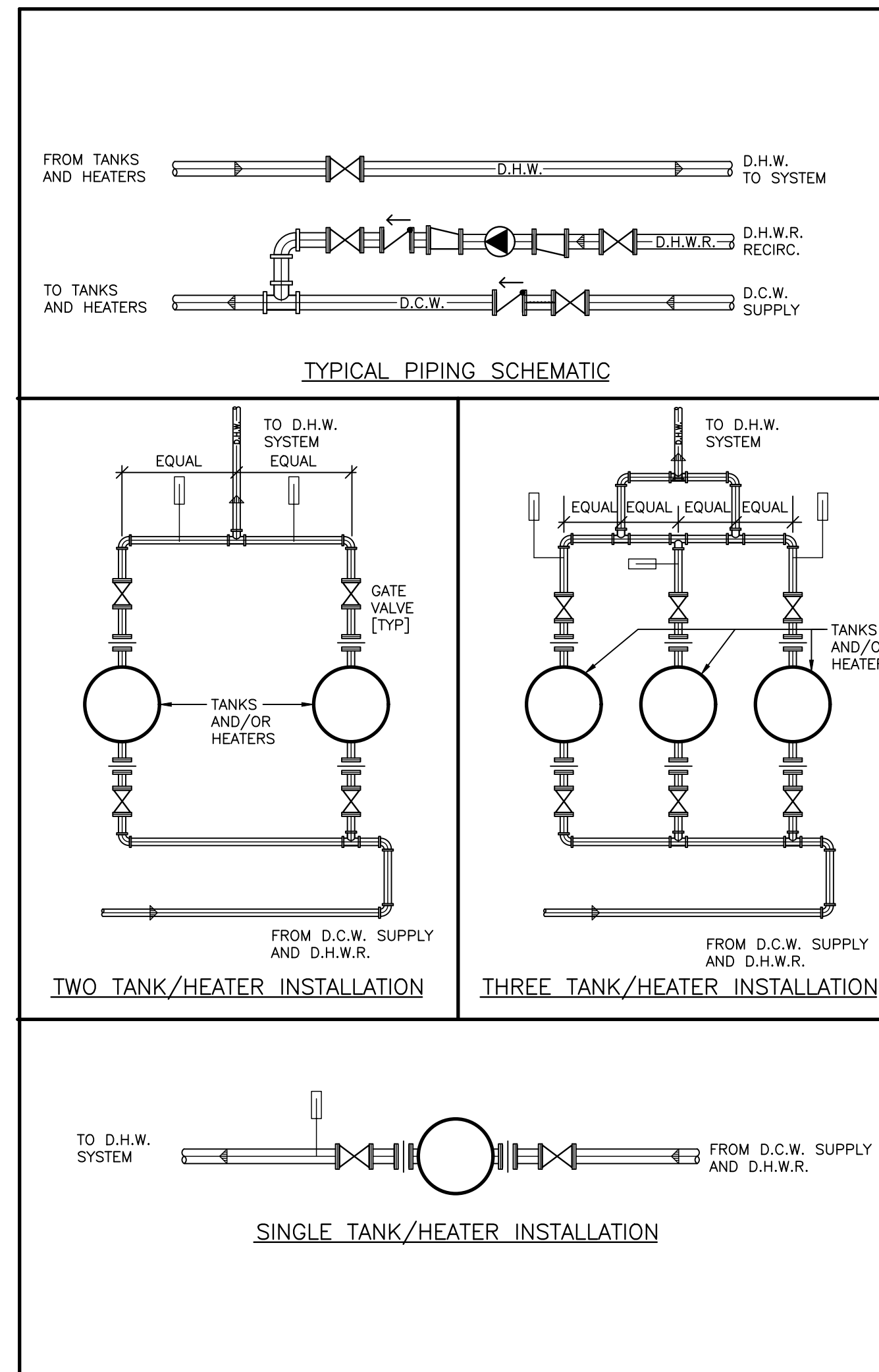
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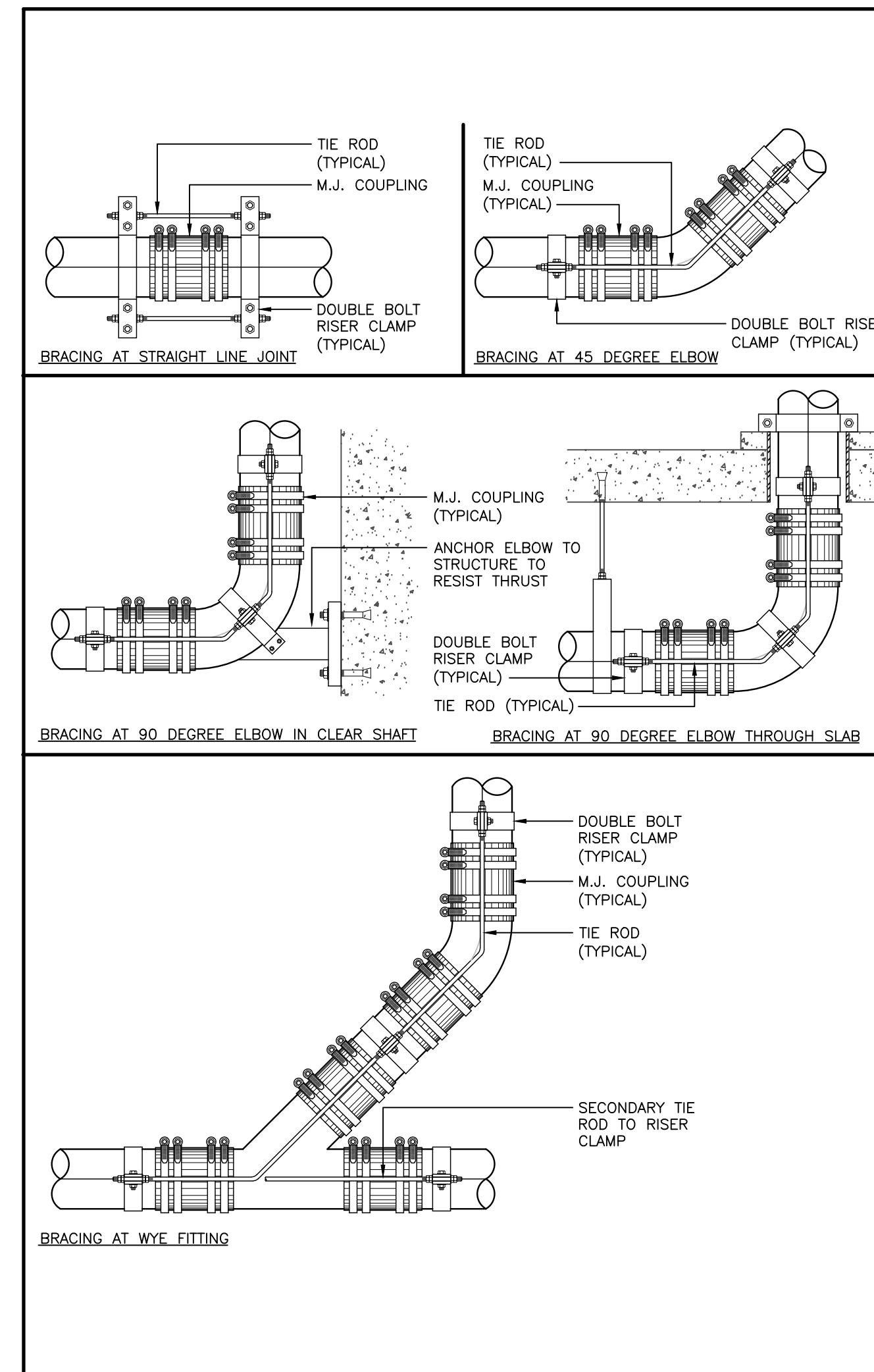
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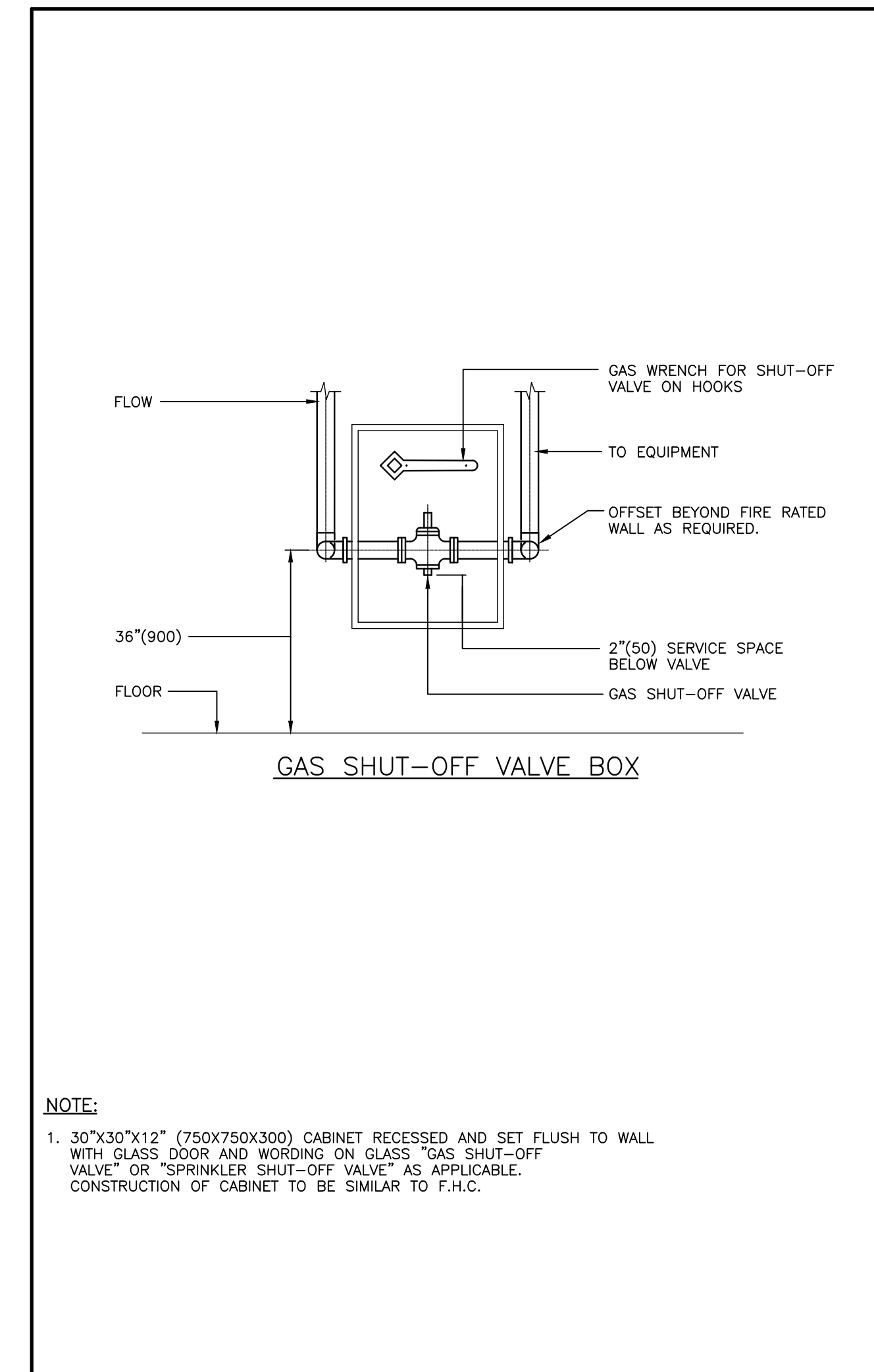
7 M003 COUNTER SINK CS-1 DETAIL (MSD-450.30)



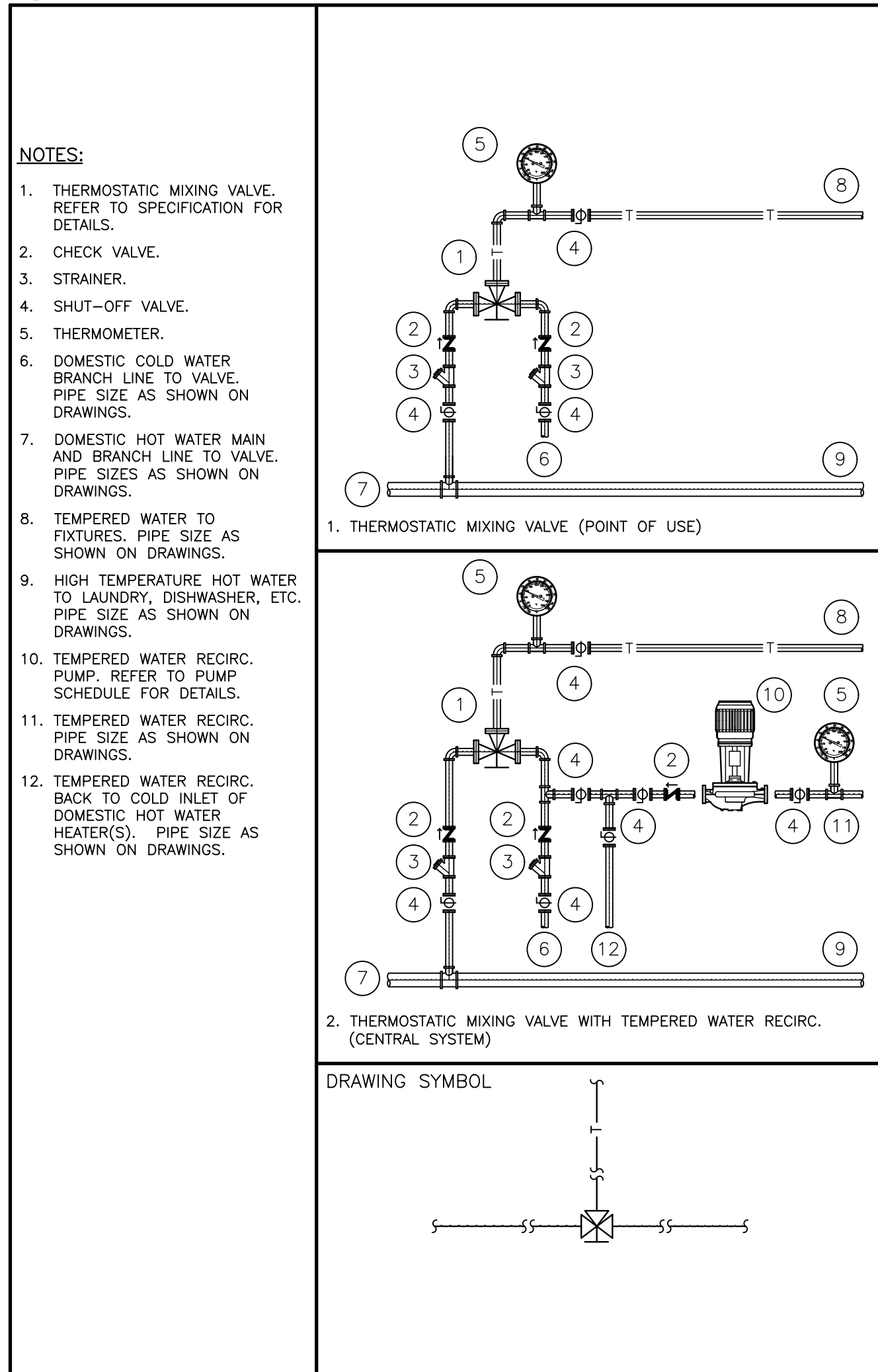
5 M003 DOMESTIC HOT WATER HEATERS (MSD-425.01)



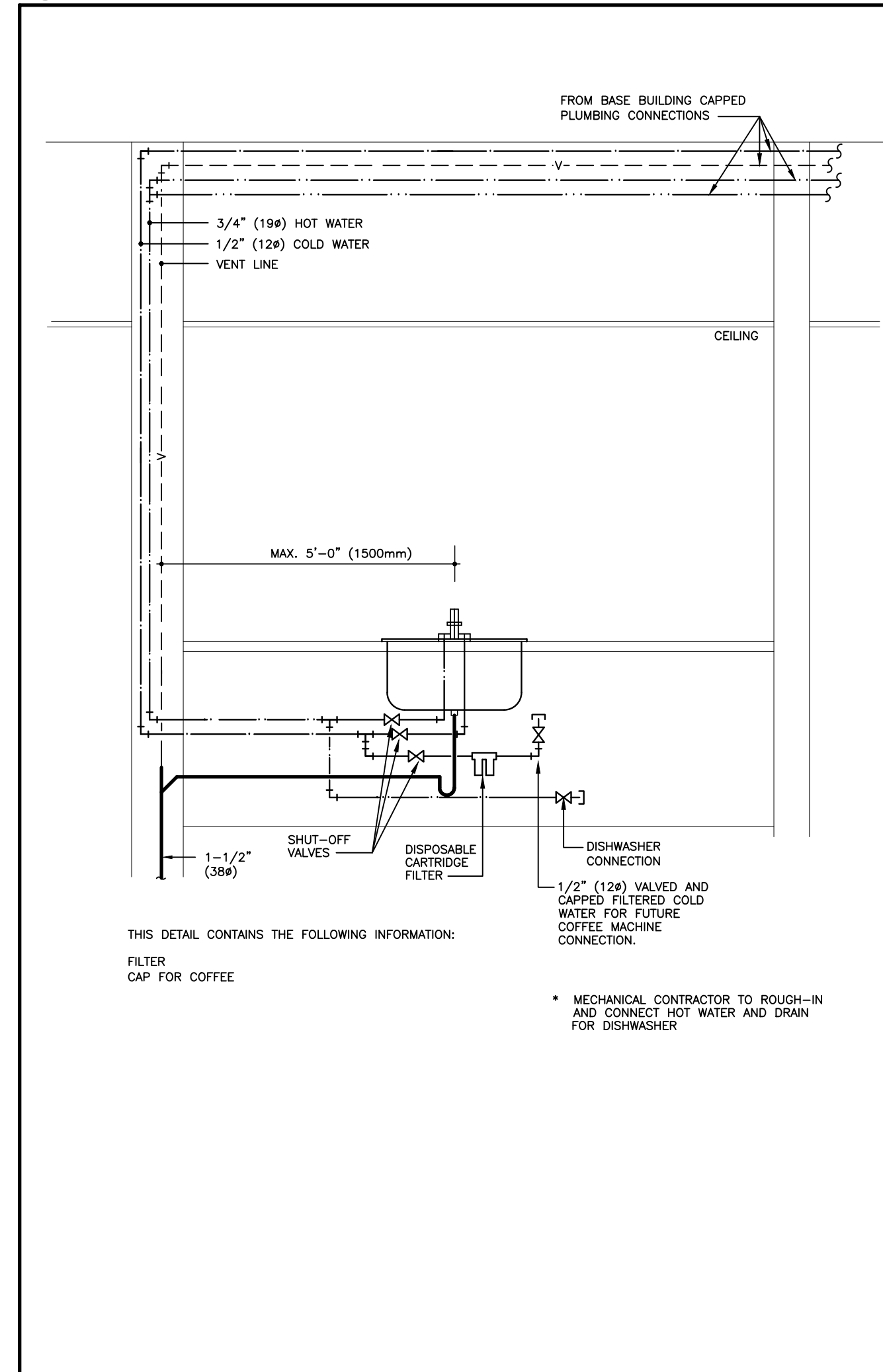
3 M003 MECHANICAL JOINT SPACING (MSD-410.02)



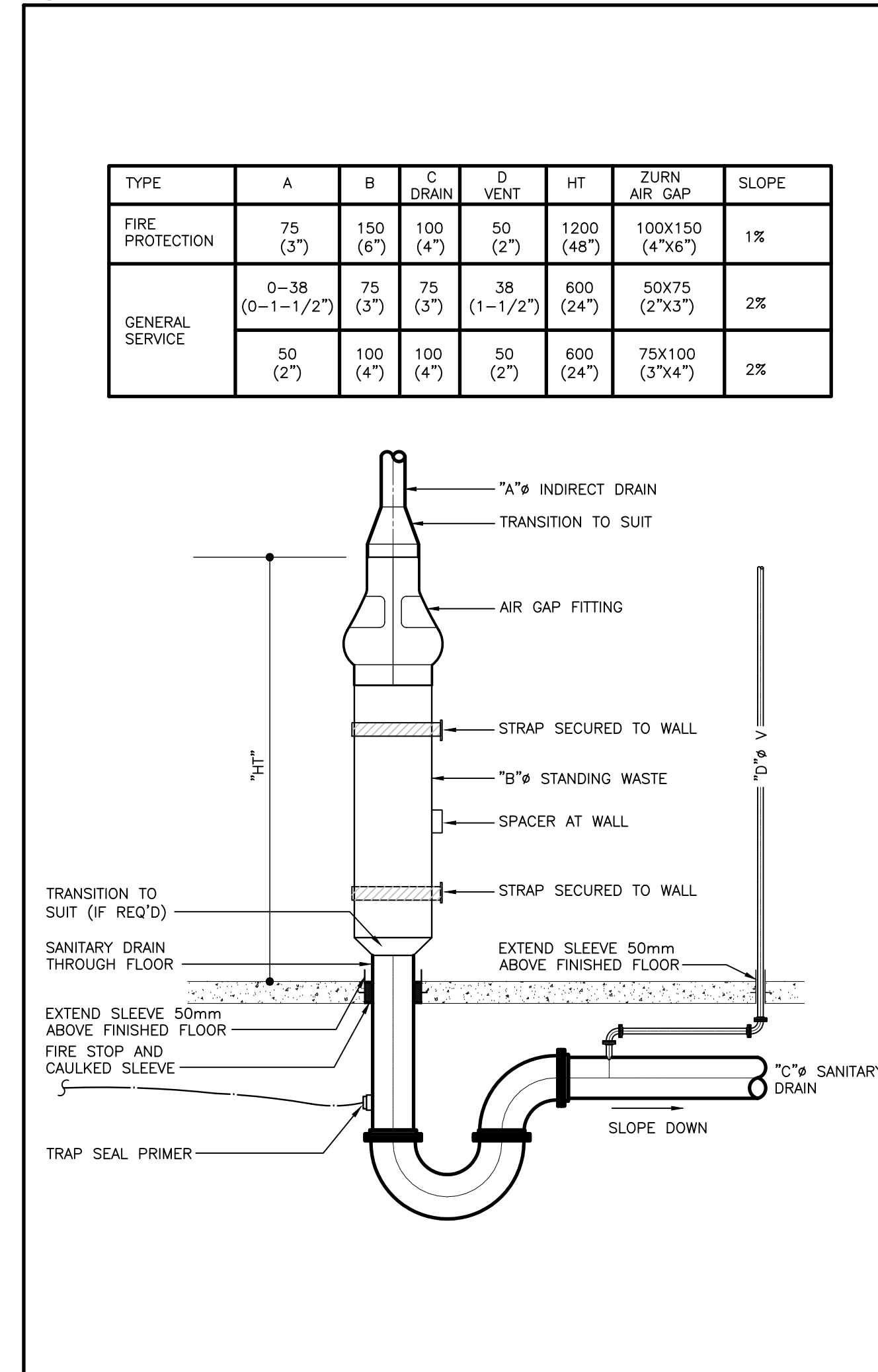
1 M003 SHUT-OFF VALVE BOX (MSD-350.01)



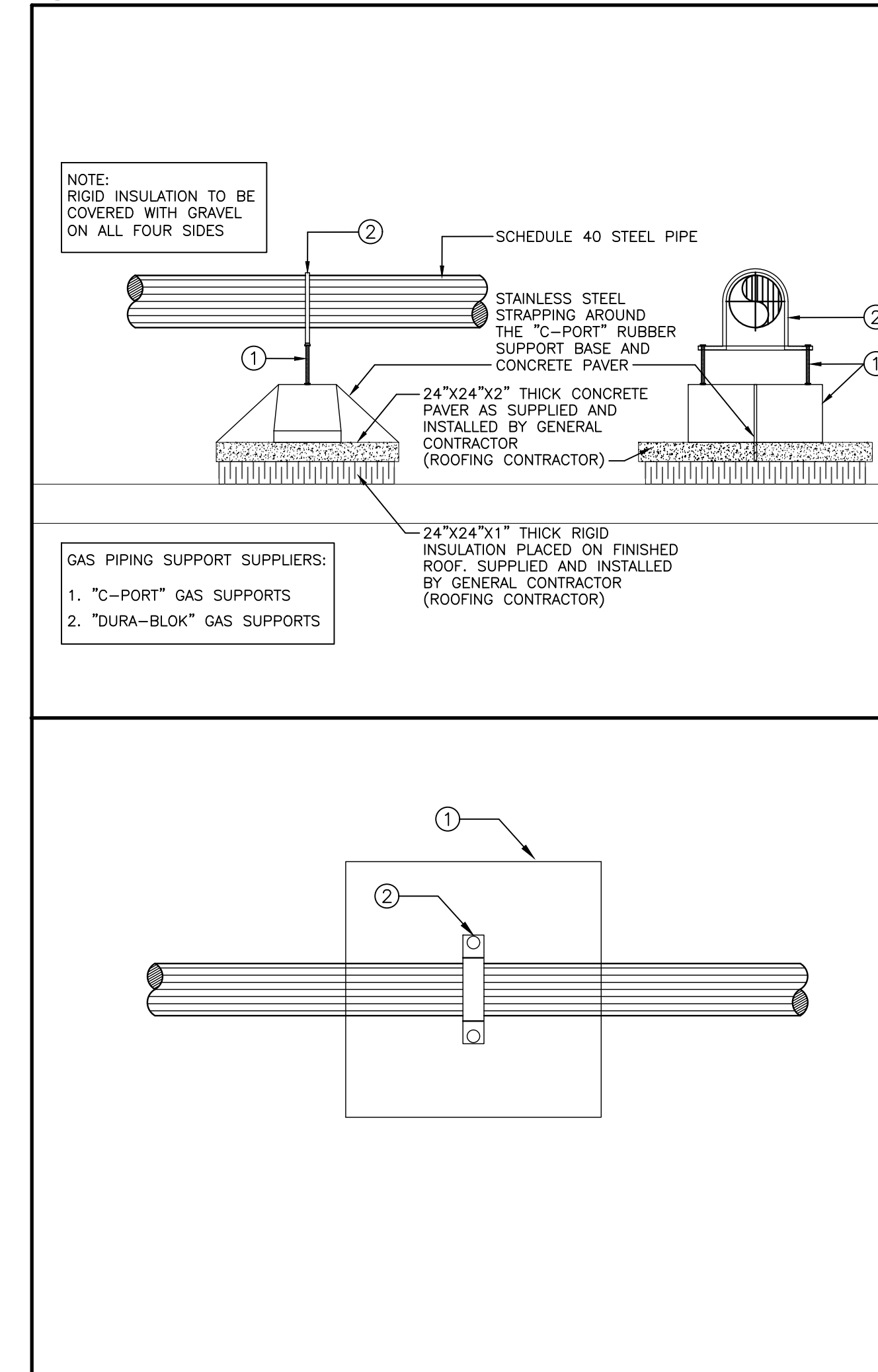
8 M003 THERMOSTATIC MIXING VALVES (MSD-450.31)



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



4 M003 INDIRECT STANDING WASTE (MSD-410.04)



2 M003 GAS PIPING ON ROOF (MSD-350.02)

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NORTH ARROW SEAL

PROJECT TITLE
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DRAWING TITLE
MECHANICAL STANDARD
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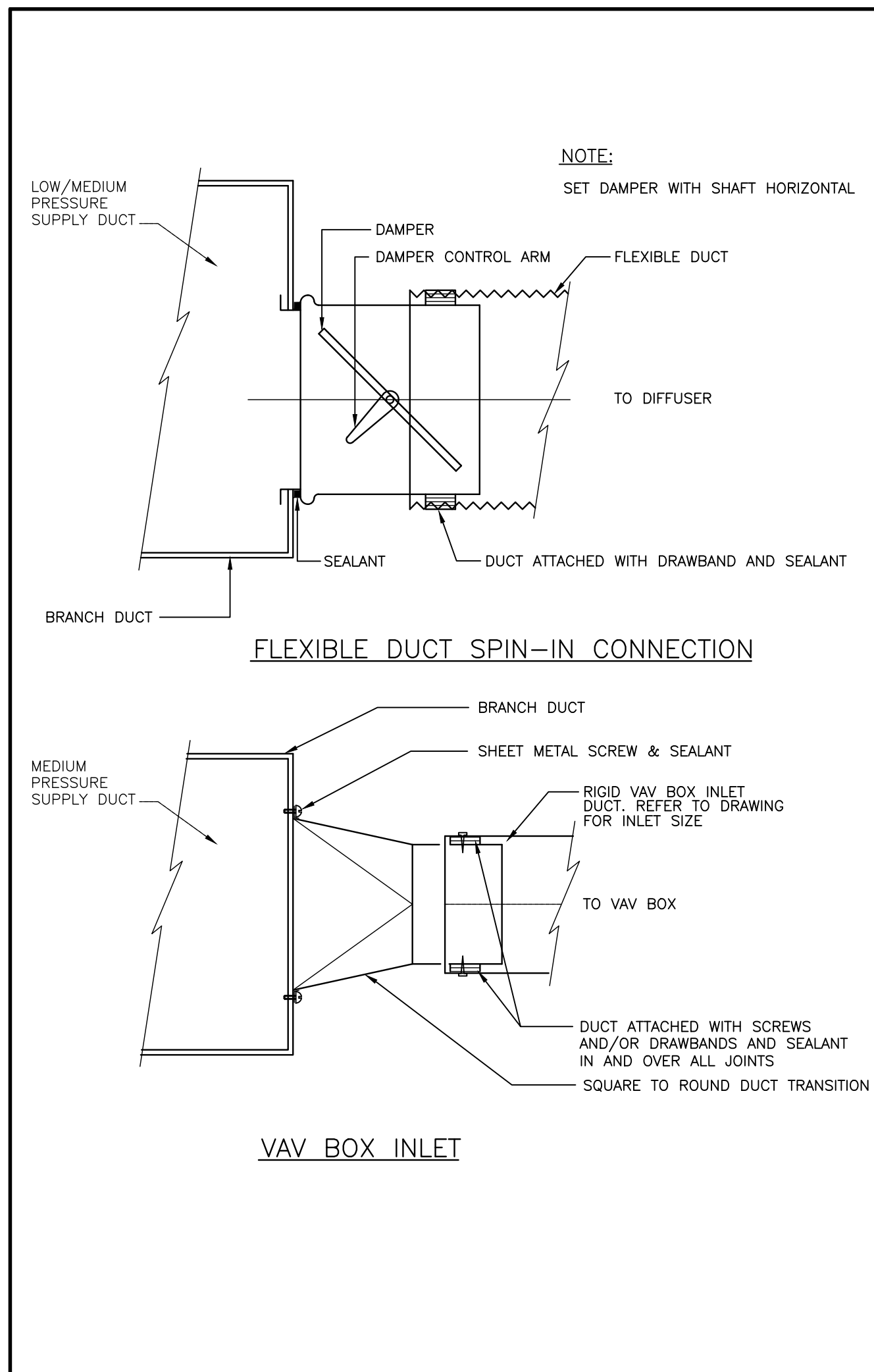
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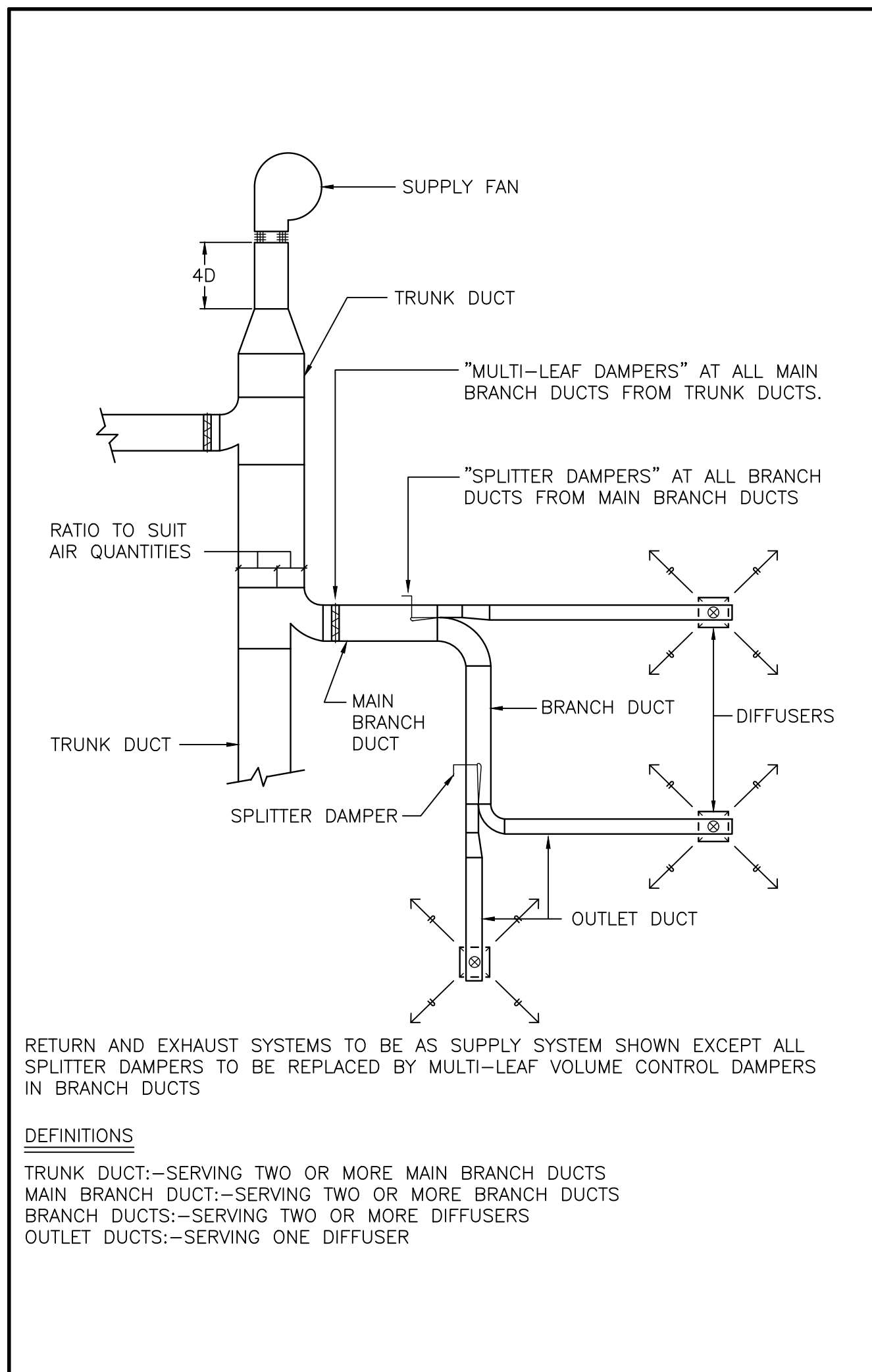
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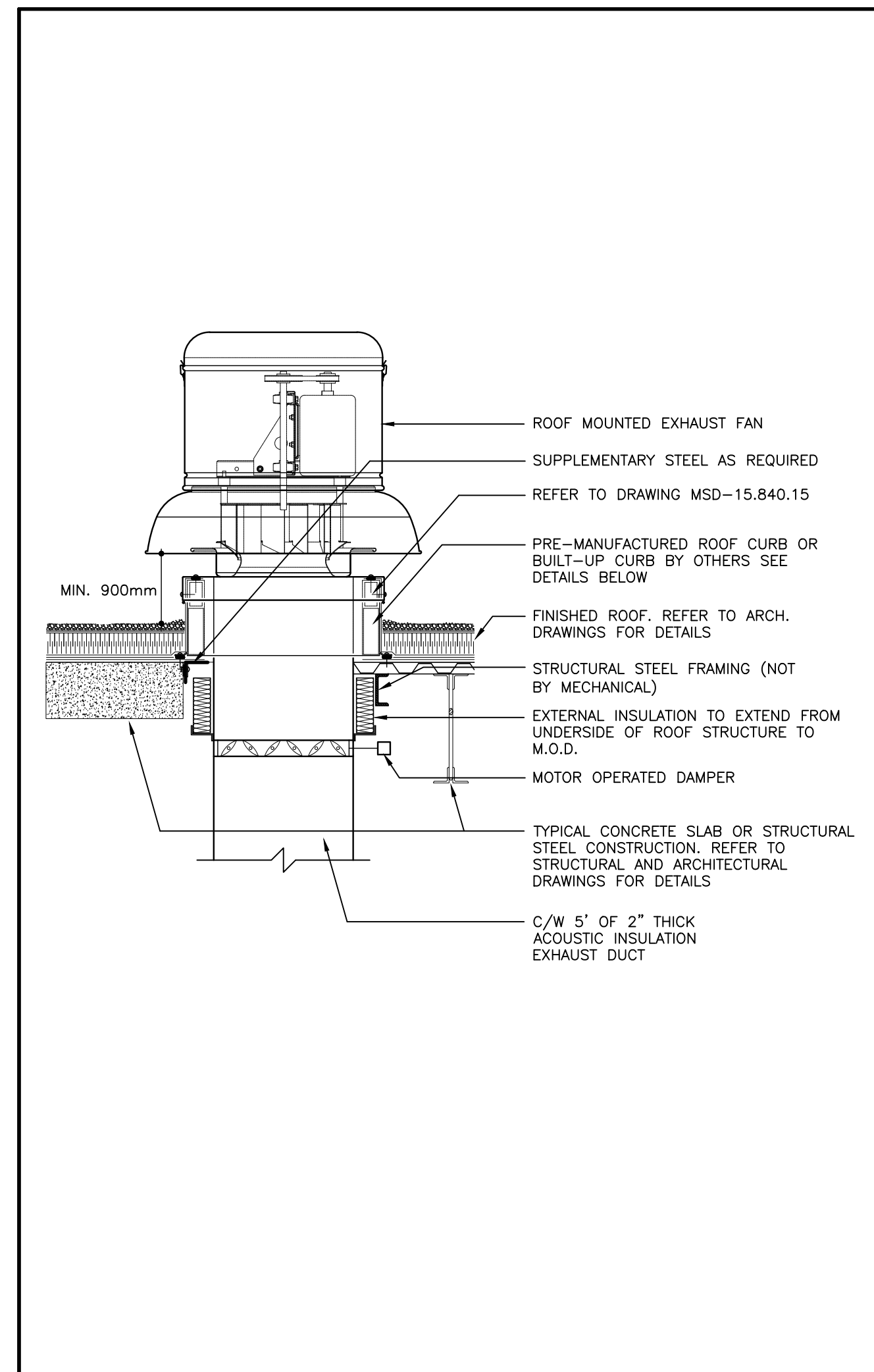
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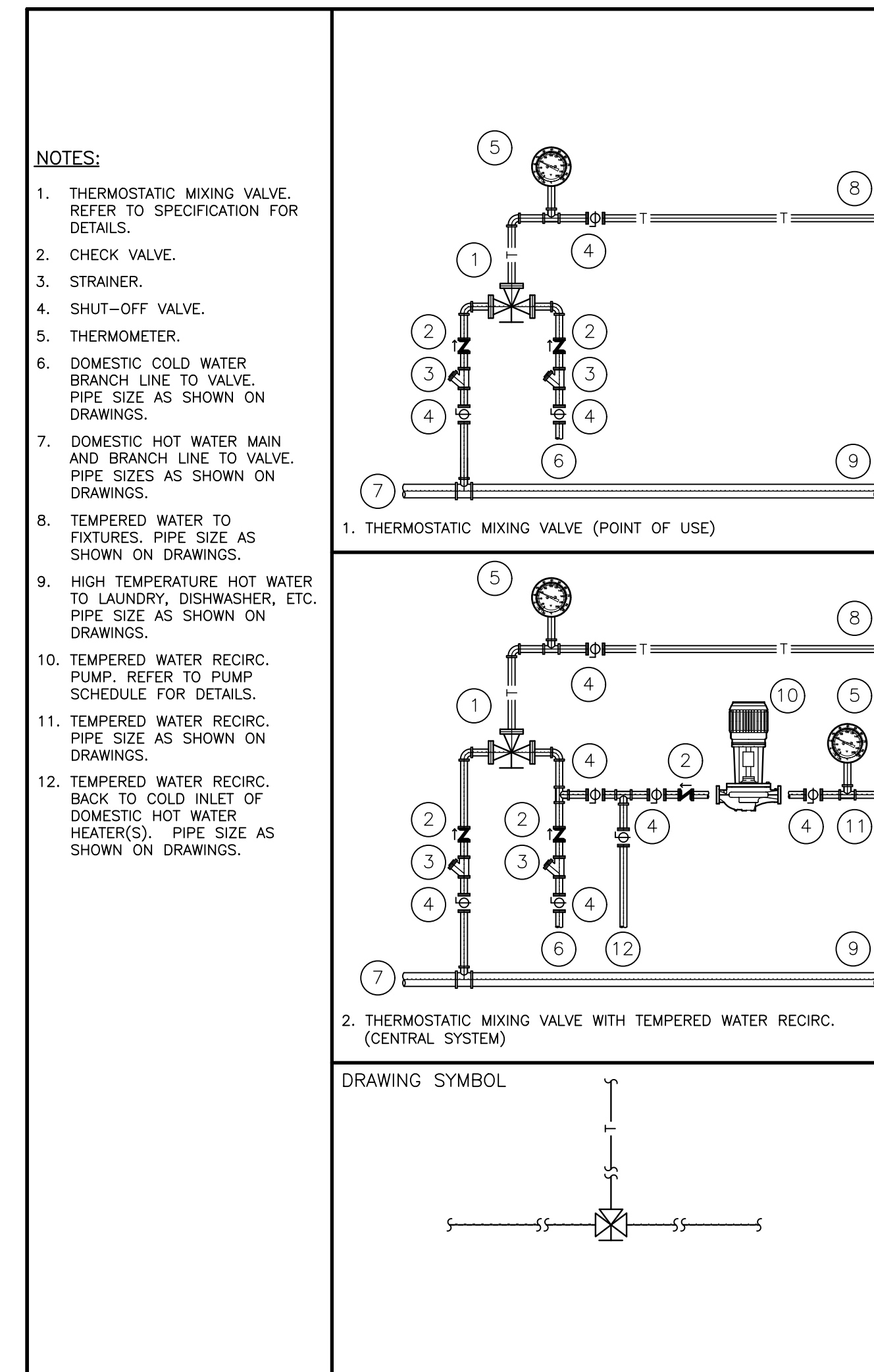
7 M004 FLEXIBLE DUCT CONNECTIONS (MSD-840.06)



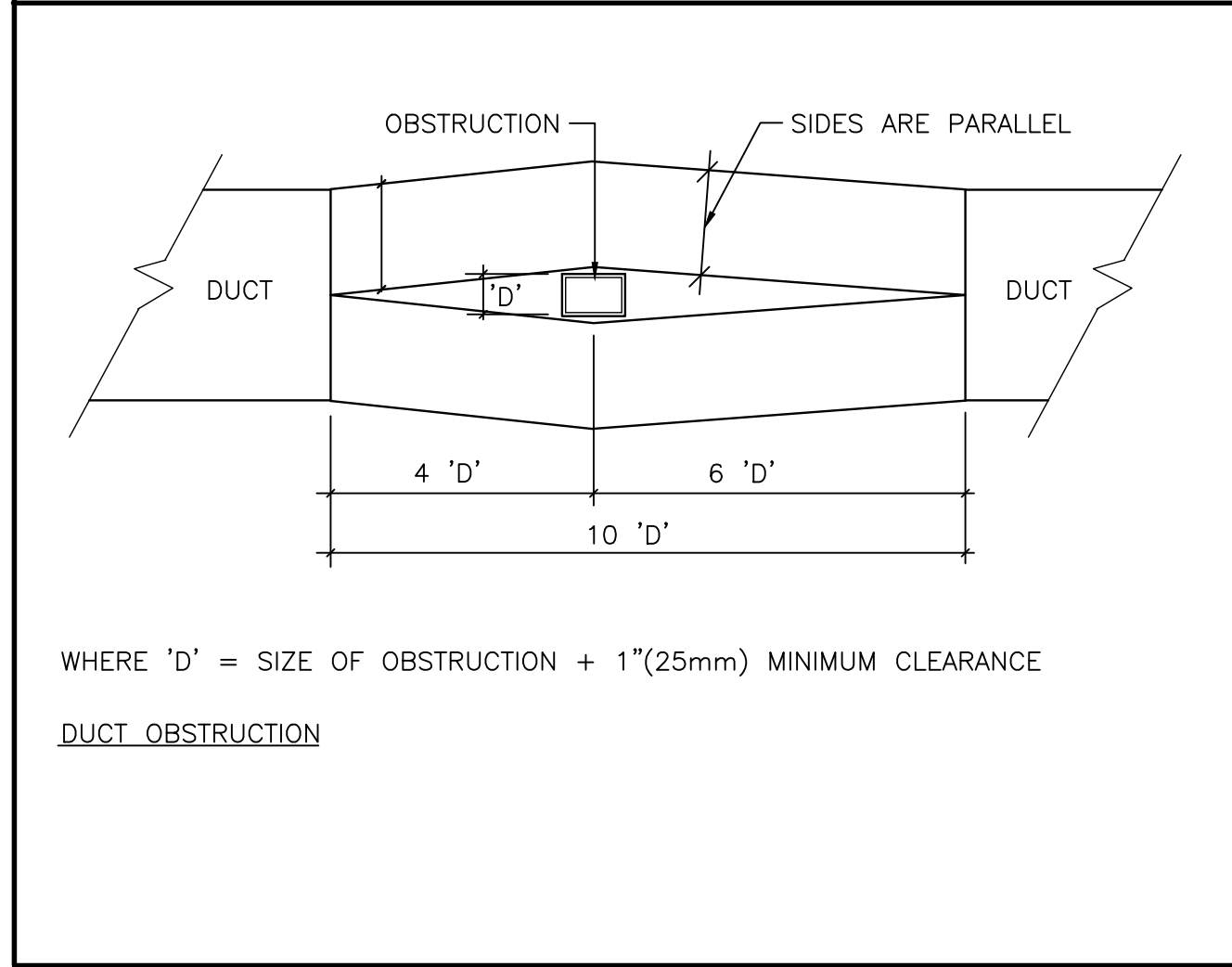
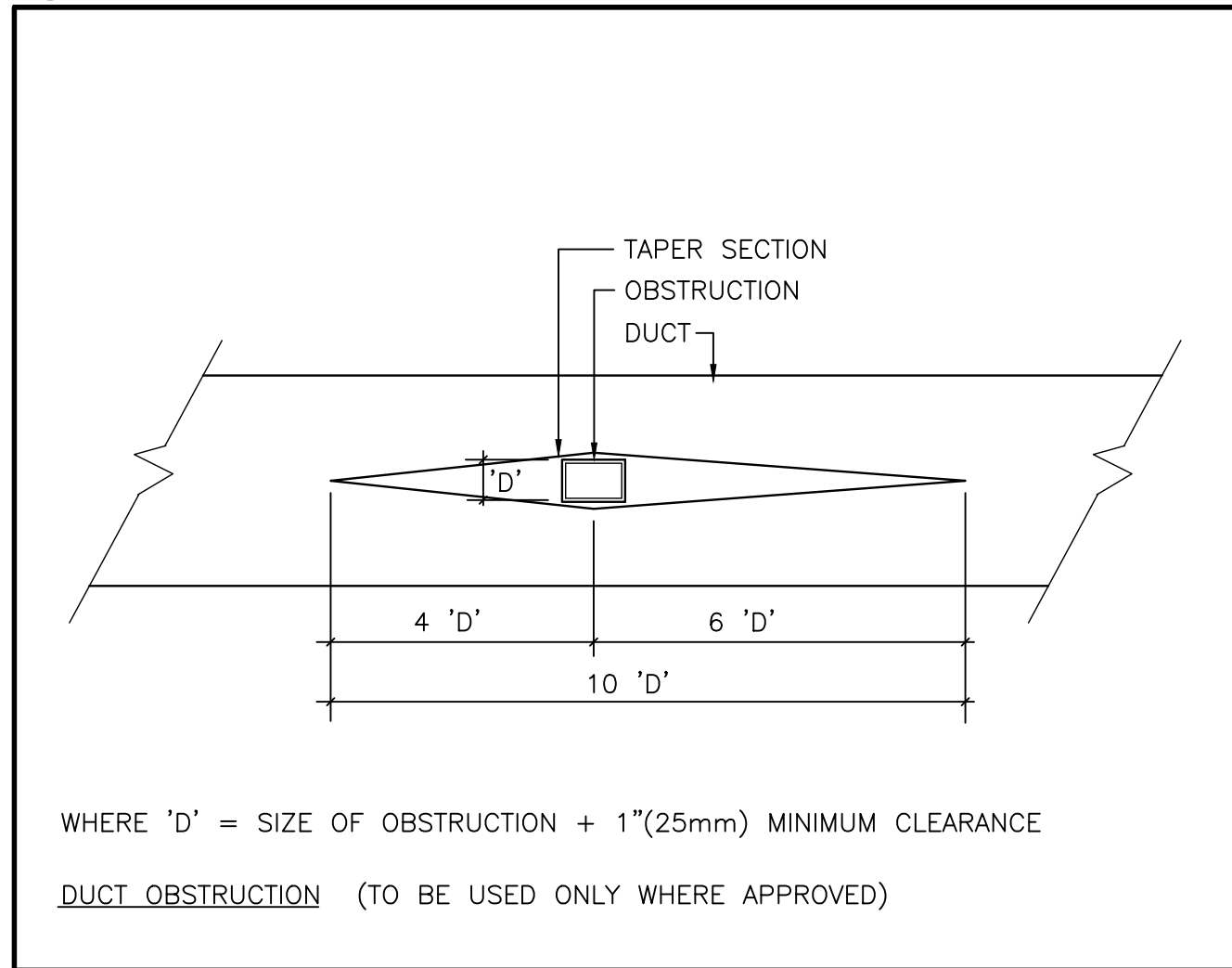
5 M004 BALANCING DAMPERS (MSD-840.03)



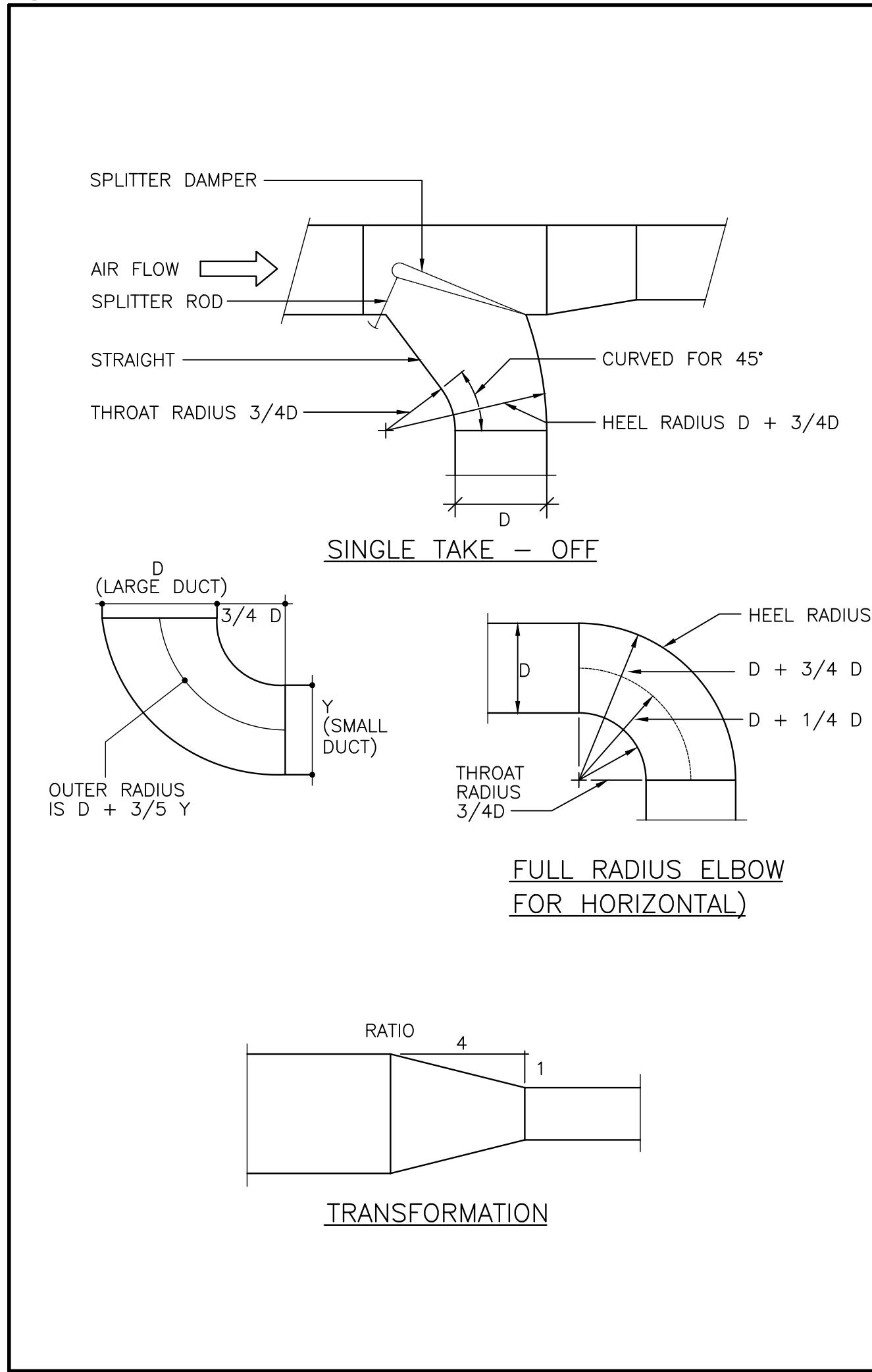
3 M004 ROOF MOUNTED EXHAUST FAN (MSD-824.01)



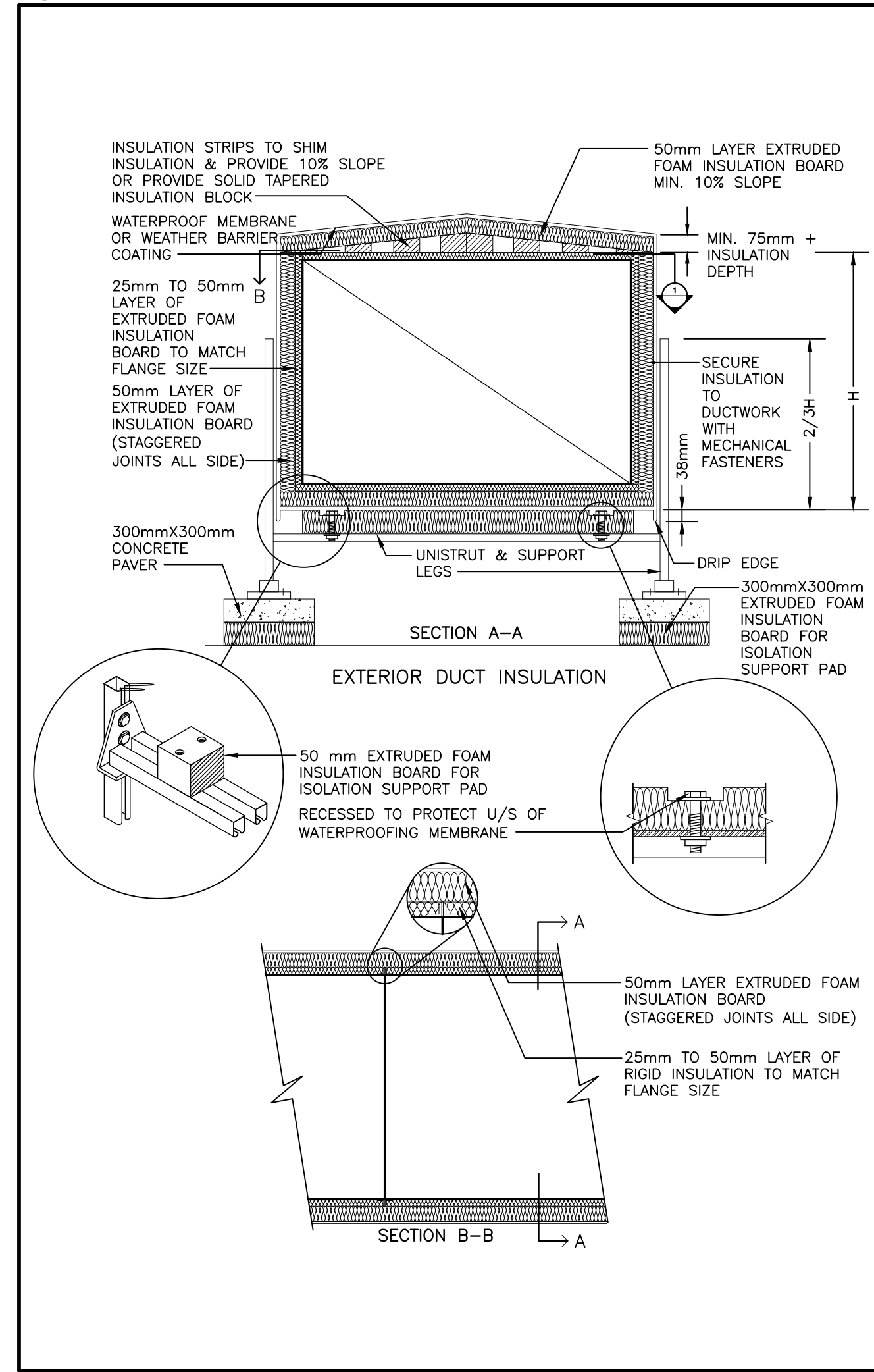
1 M004 THERMOSTATIC MIXING VALVES (MSD-450.31)



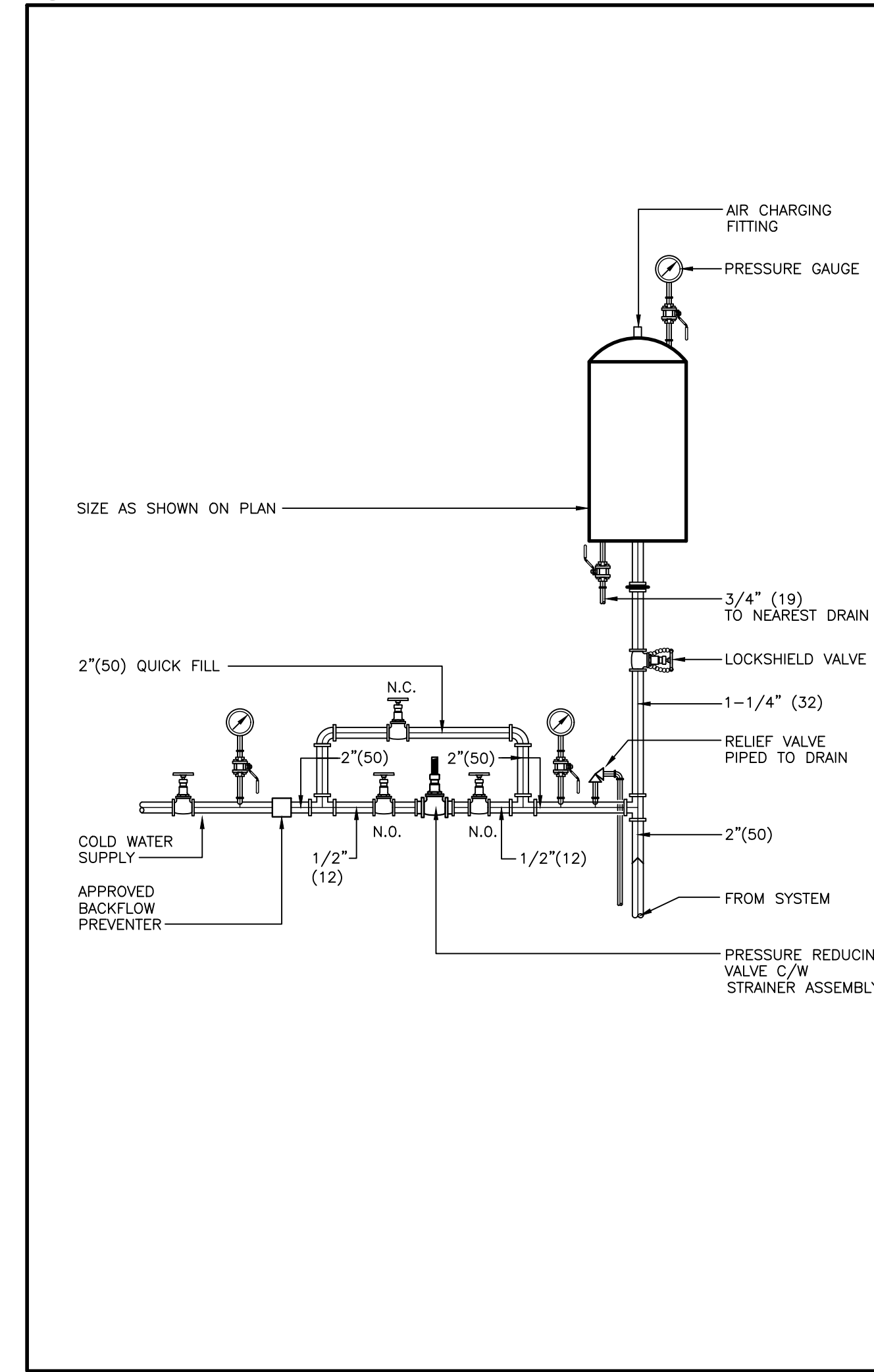
8 M004 DUCT OBSTRUCTIONS (MSD-840.07)



6 M004 DUCT DETAILS (MSD-840.05)



4 M004 INSULATED DUCT ON ROOF (MSD-824.02)



2 M004 DIAPHRAM EXPANSION TANK PIPING SCHEMATIC (MSD-708.01)

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PROJECT TITLE
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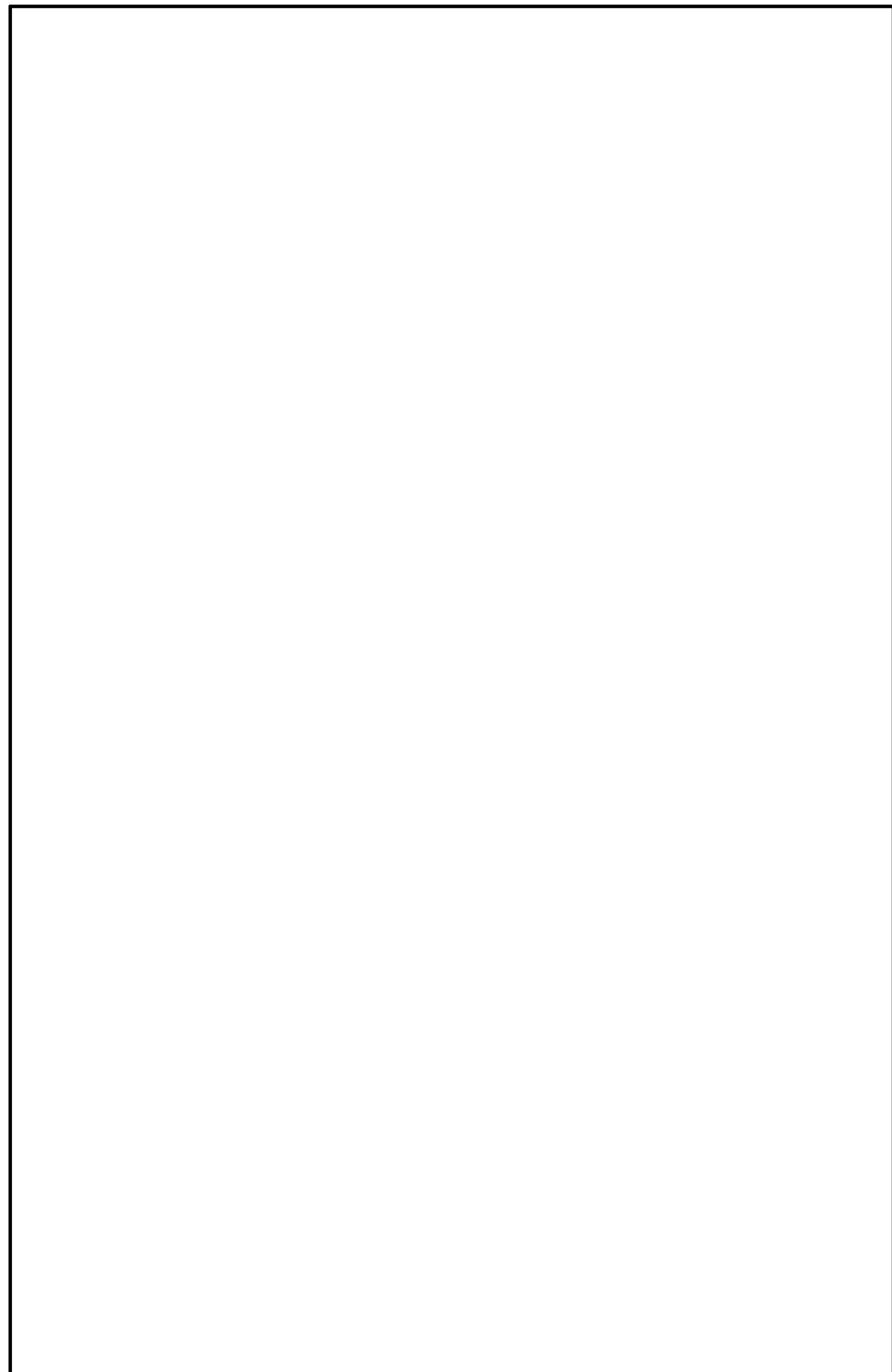
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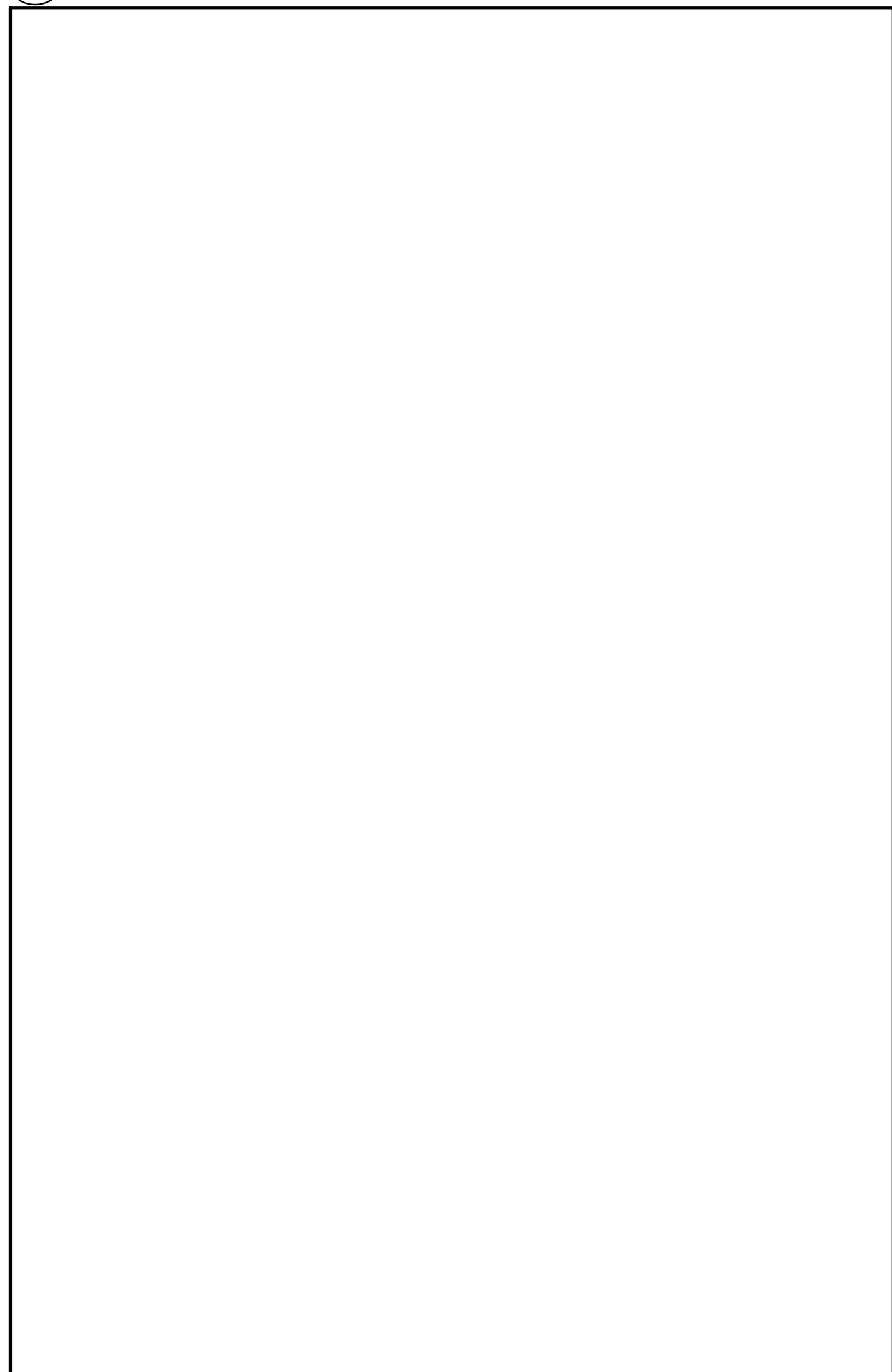


7 NOT USED
M005

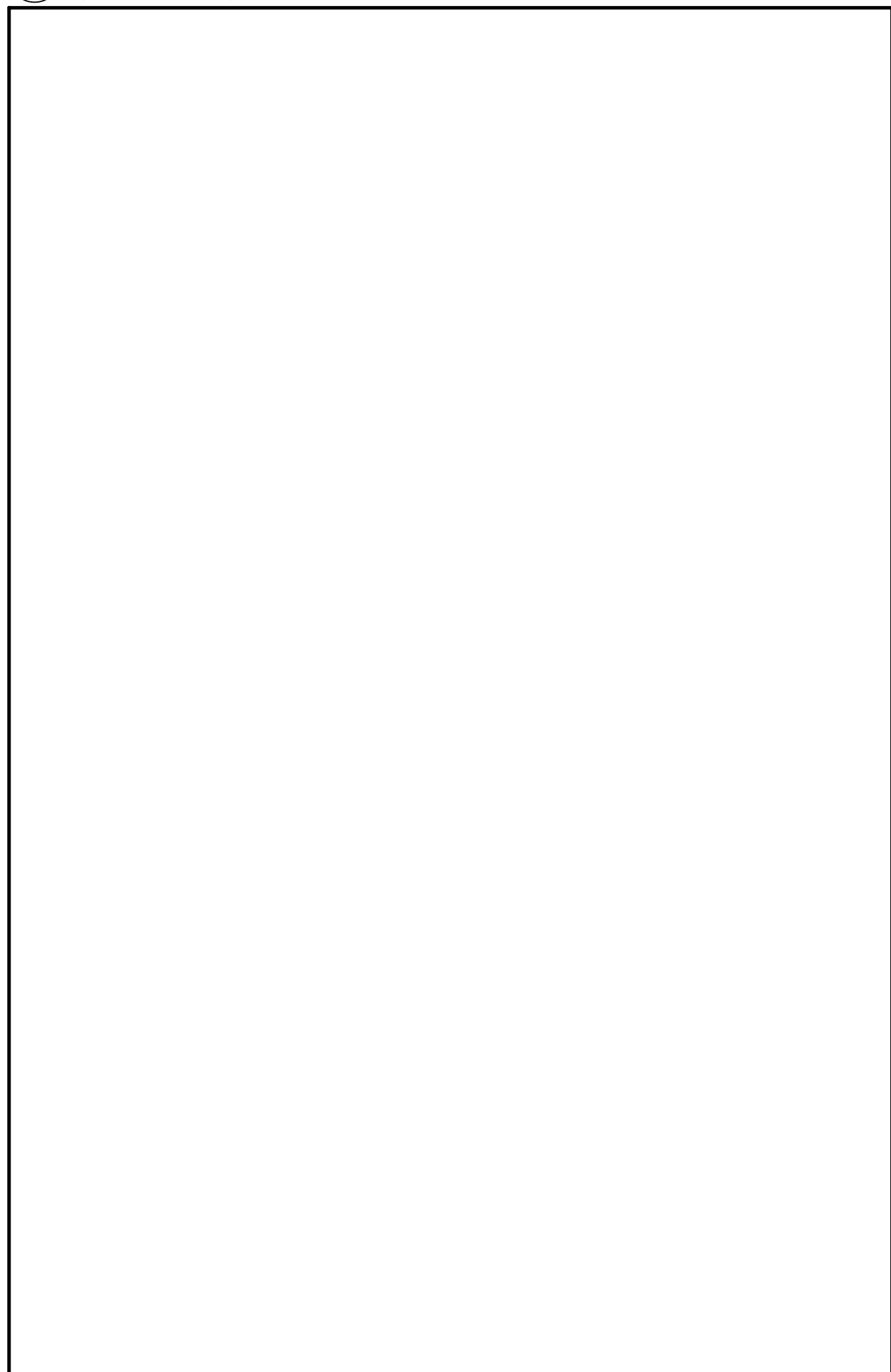
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER)
	FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER)
	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT 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

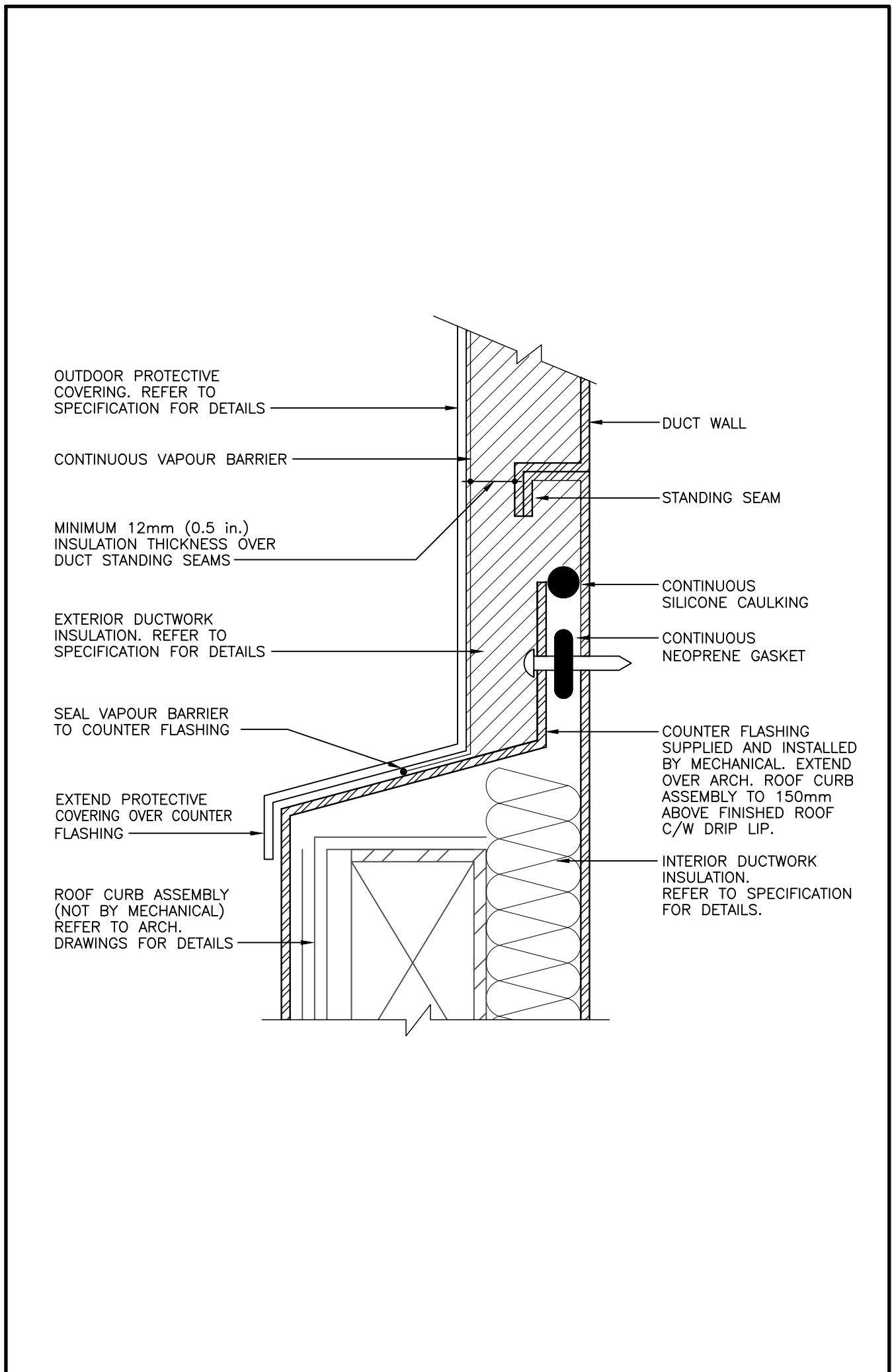
5 GENERAL SYMBOLS AND ABBREVIATIONS
(MSD-012.14)



8 NOT USED
M005



6 NOT USED
M005



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

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		REVISION BUBBLE
	REVISION NUMBER		
	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

NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN

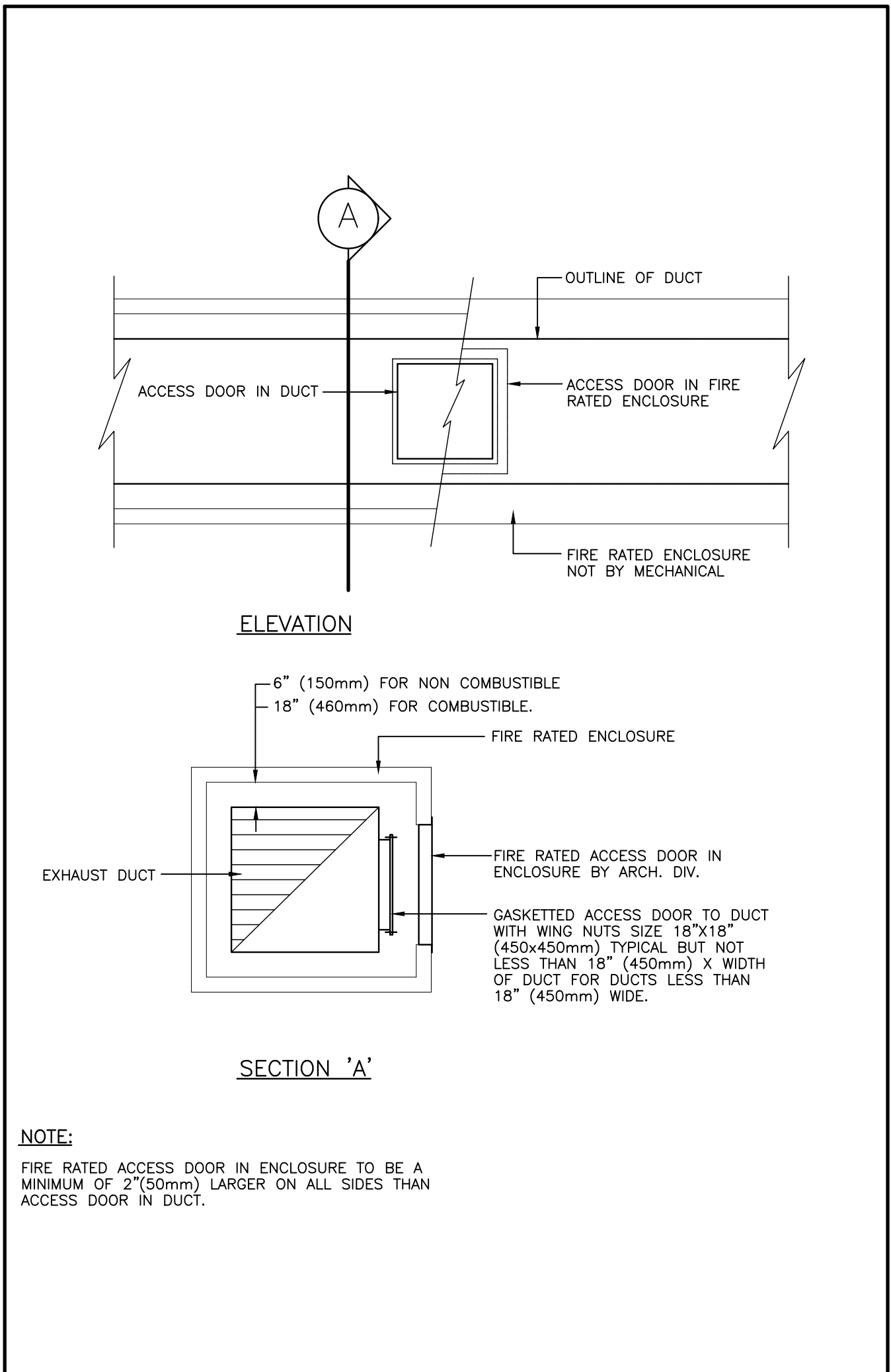
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO REMAIN		EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN		EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN

NOTE: EXISTING EQUIPMENT SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.

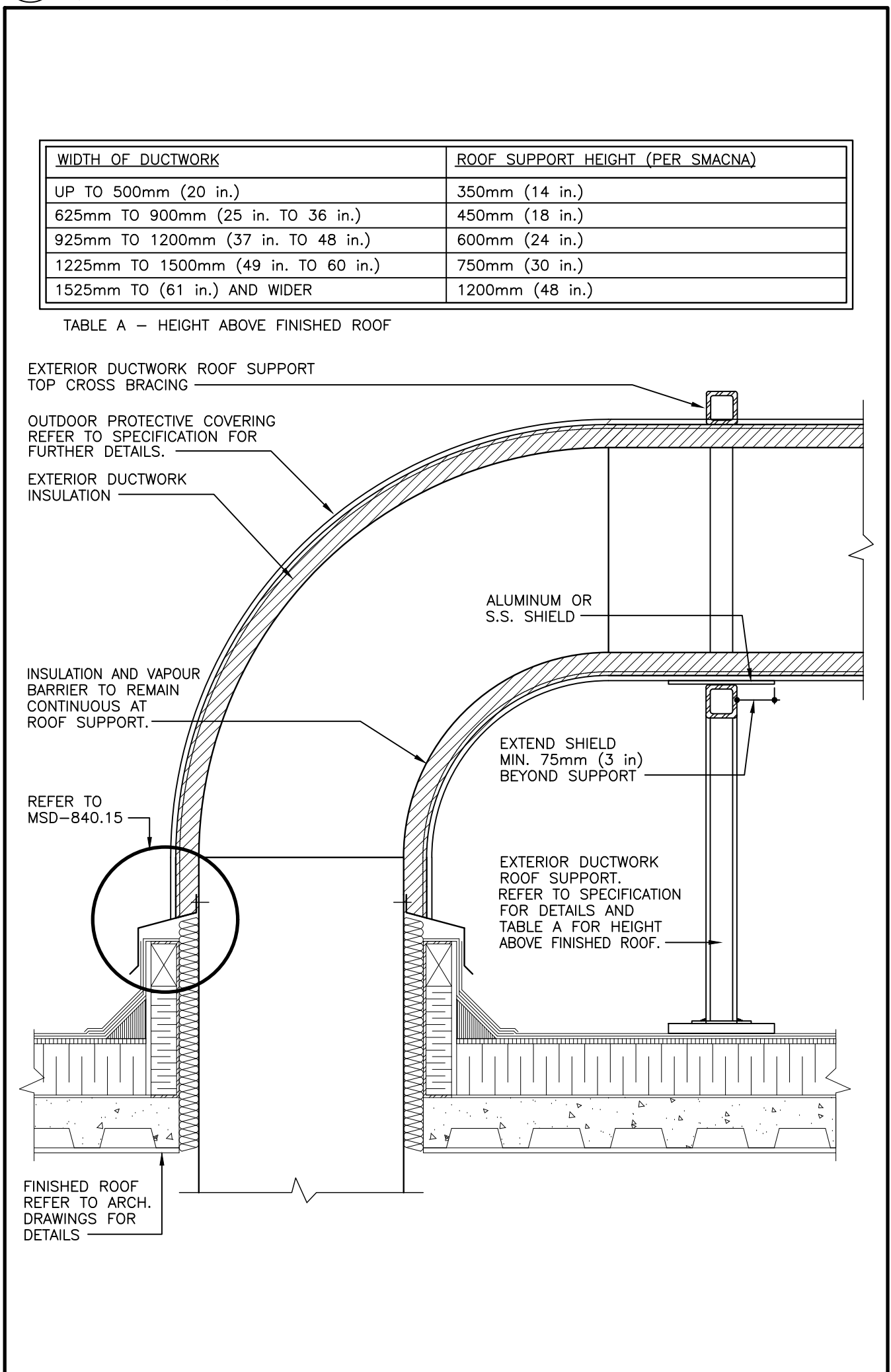
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO BE REMOVED		EXISTING CONCEALED SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED		EXISTING PENDANT SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING UPRIGHT SPRINKLER 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

4 GENERAL SYMBOLS AND ABBREVIATIONS
(MSD-012.13)



1 KITCHEN EXHAUST DUCT ACCESS DOOR
(MSD-840.10)



2 EXTERIOR DUCTWORK ROOF PENETRATION
(MSD-840.14)

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.

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021.08.25	
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e: sayers@apsley.ca

PROJECT TITLE
NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

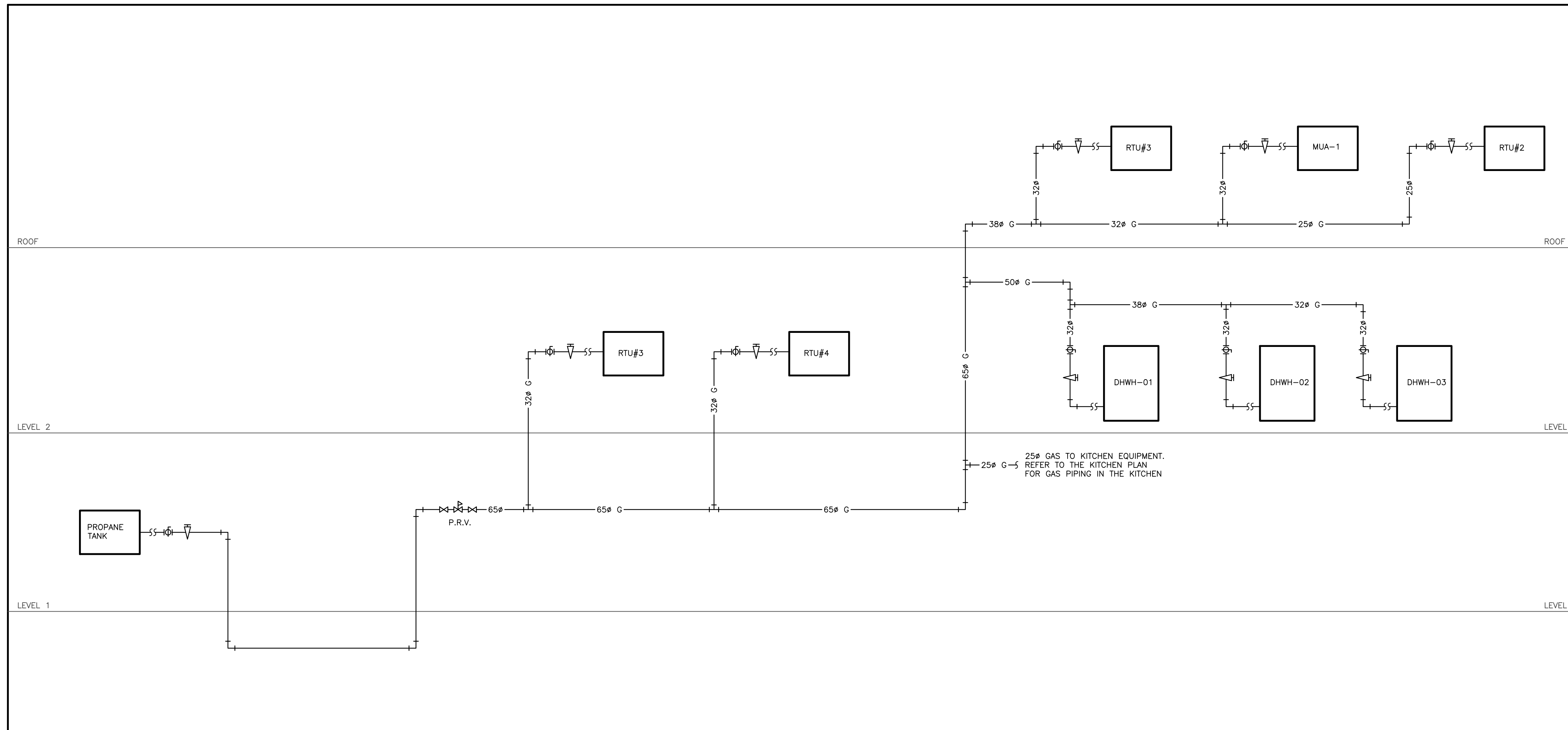
DRAWING TITLE
MECHANICAL STANDARD
DETAILS

SCALE
1:100

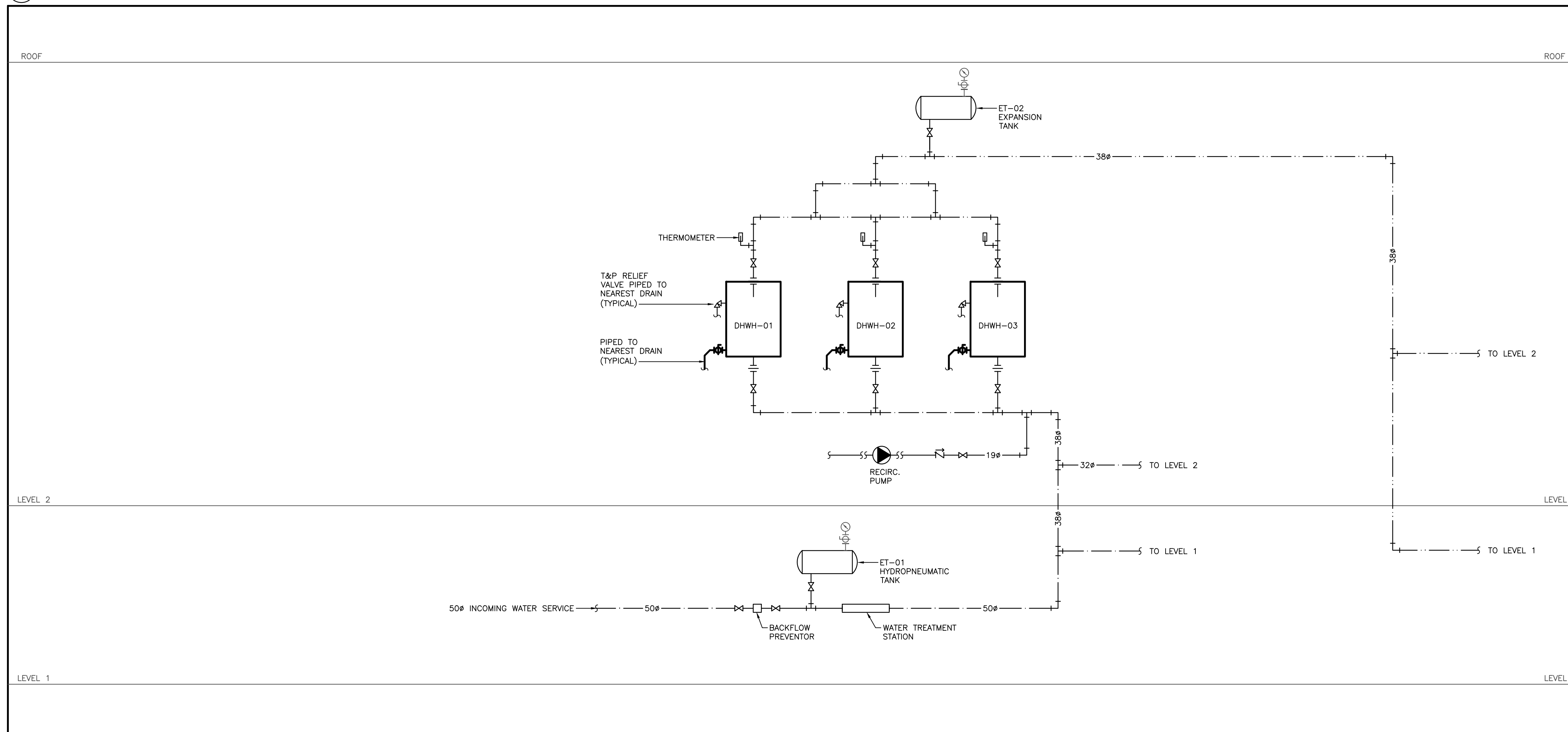
DATE
JUNE 16, 2021

PROJECT NUMBER
21076

DRAWING NUMBER
M005



1 GAS SCHEMATIC



2 DOMESTIC WATER SCHEMATIC

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.

SCHEMATIC NOTES:

- 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.
- VERIFY STATIC AND OPERATING PRESSURES AT ALL POINTS IN THE SYSTEMS AND ENSURE PIPING, FITTINGS, COMPONENTS, ETC. ARE SUITABLE FOR THESE CONDITIONS.
- 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.
- PROVIDE TYPE CV-1 CONTROL VALVES UNLESS INDICATED OTHERWISE.

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REVISIONS AND ISSUES

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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

21076

DRAWING NUMBER

M200

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

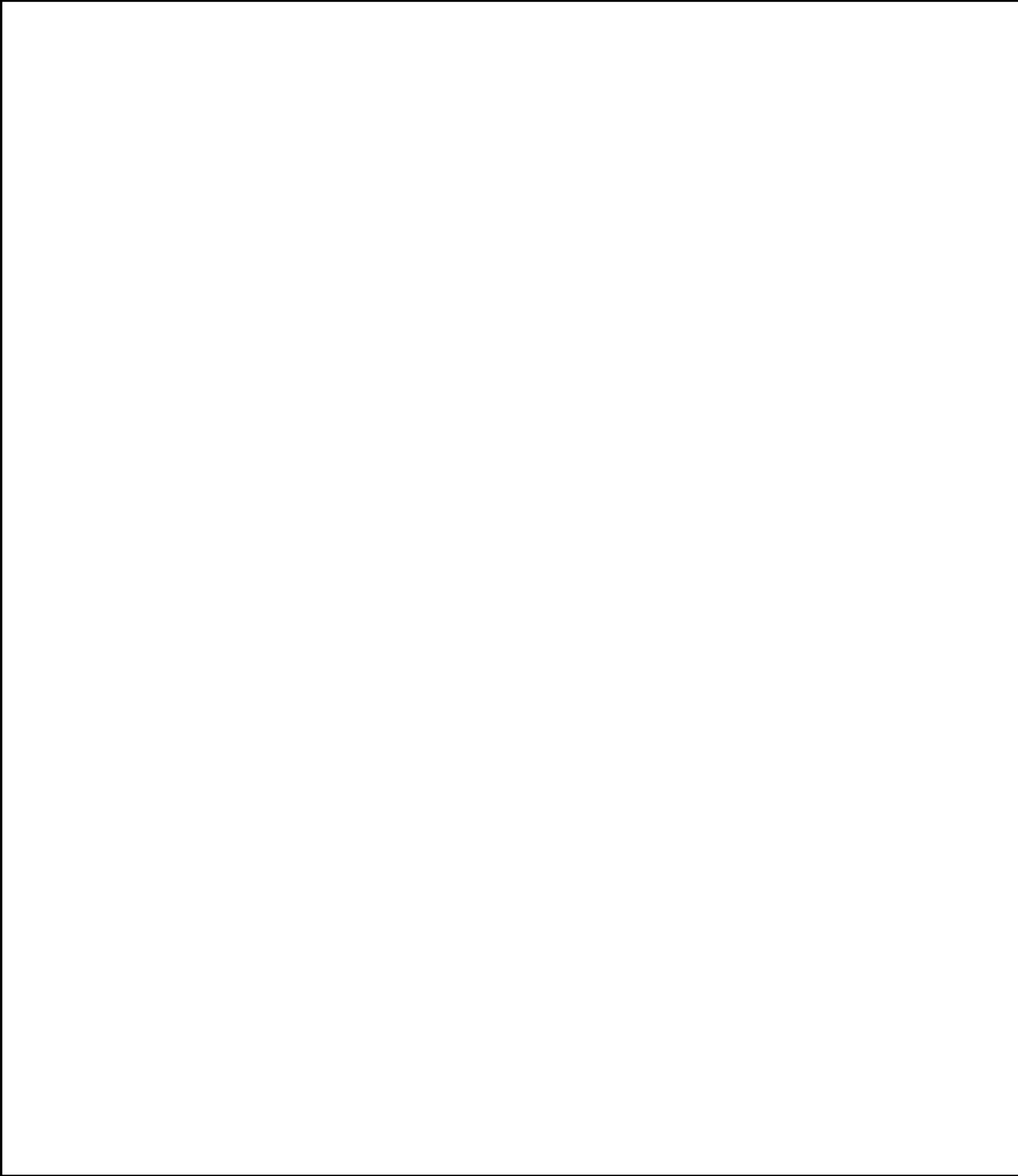
DRAWING TITLE
PLUMBING SCHEMATICS

SCALE
 N.T.S.

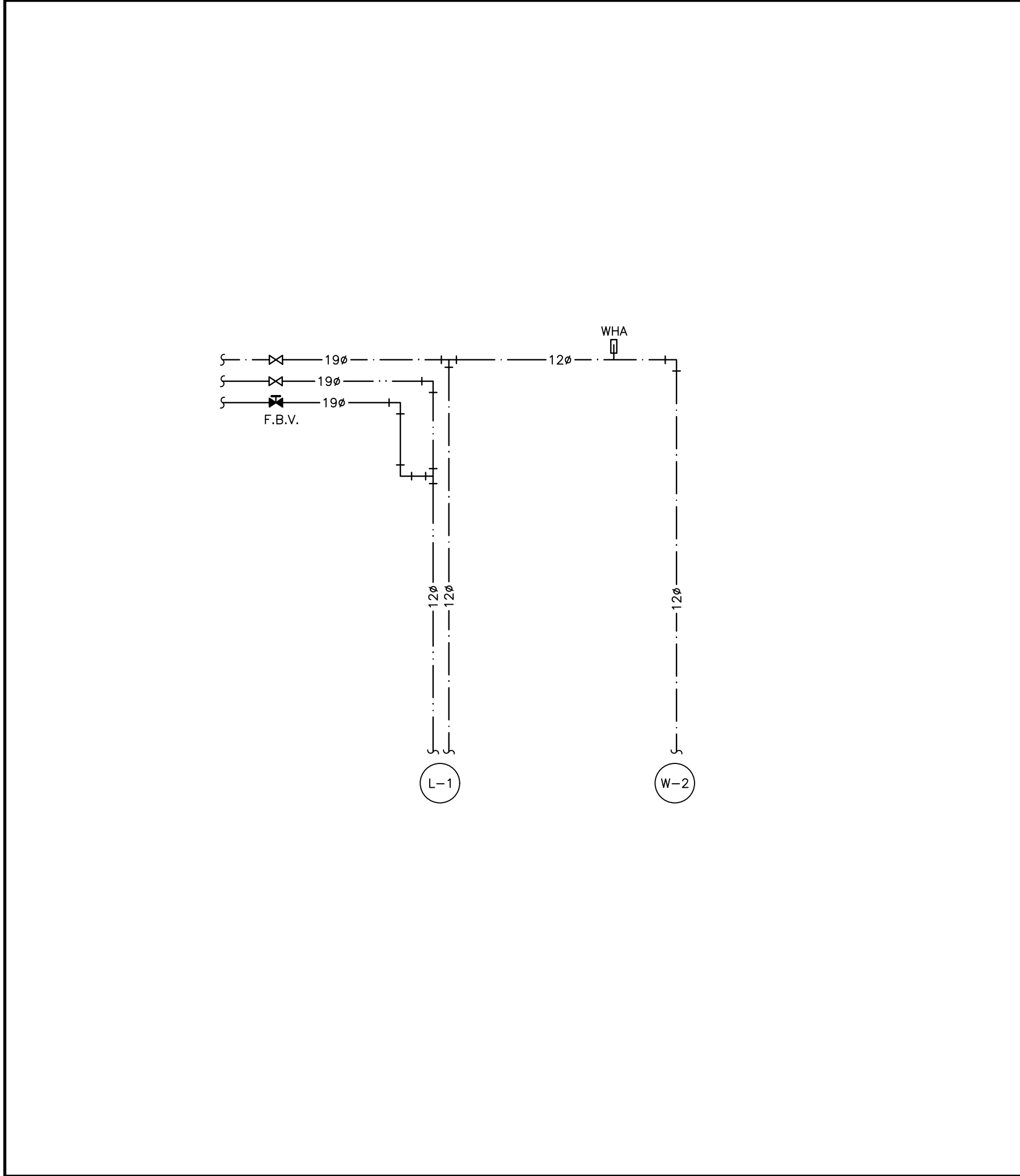
DATE
JUNE 16, 2021

PROJECT NUMBER
21076

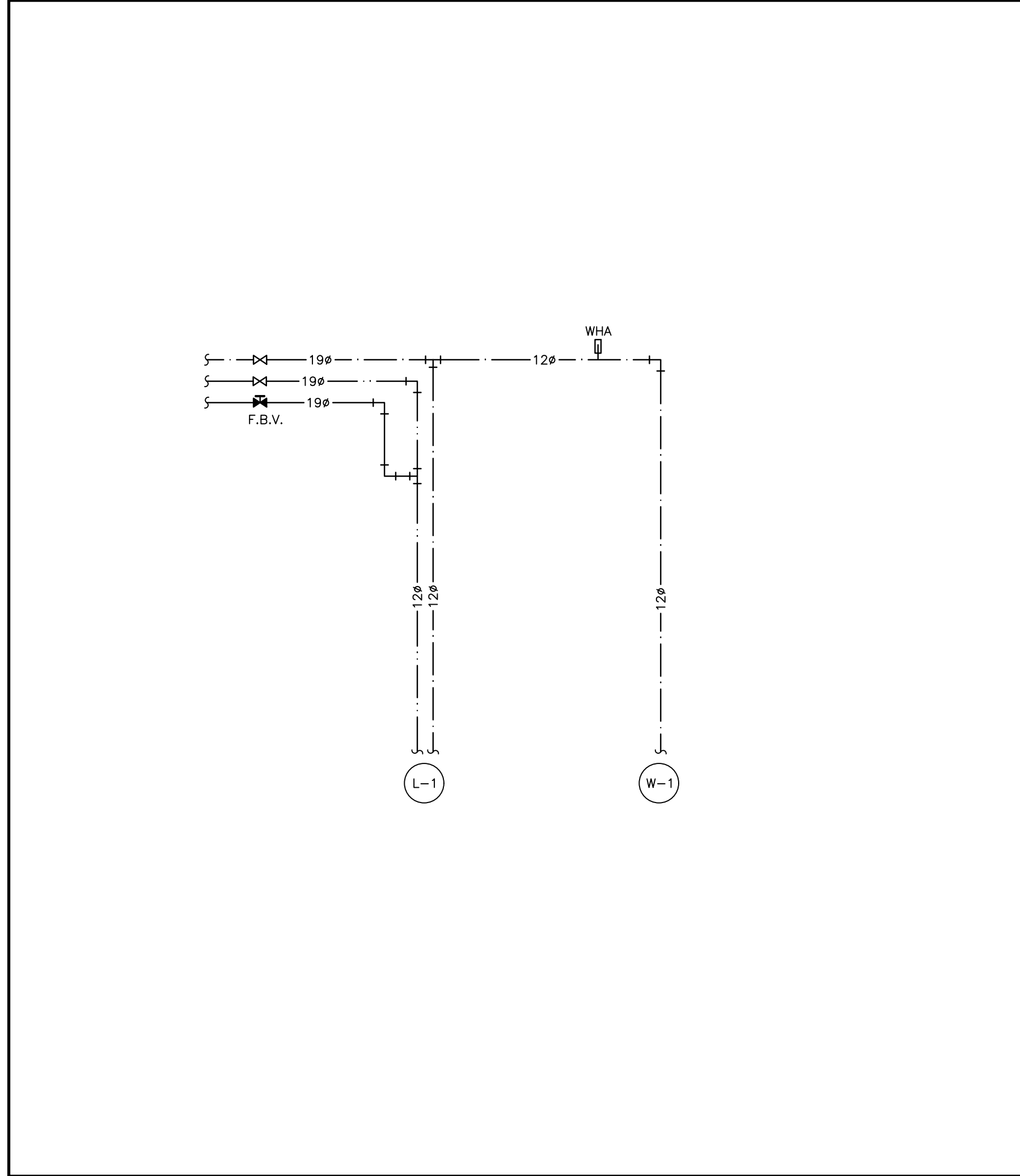
DRAWING NUMBER
M201



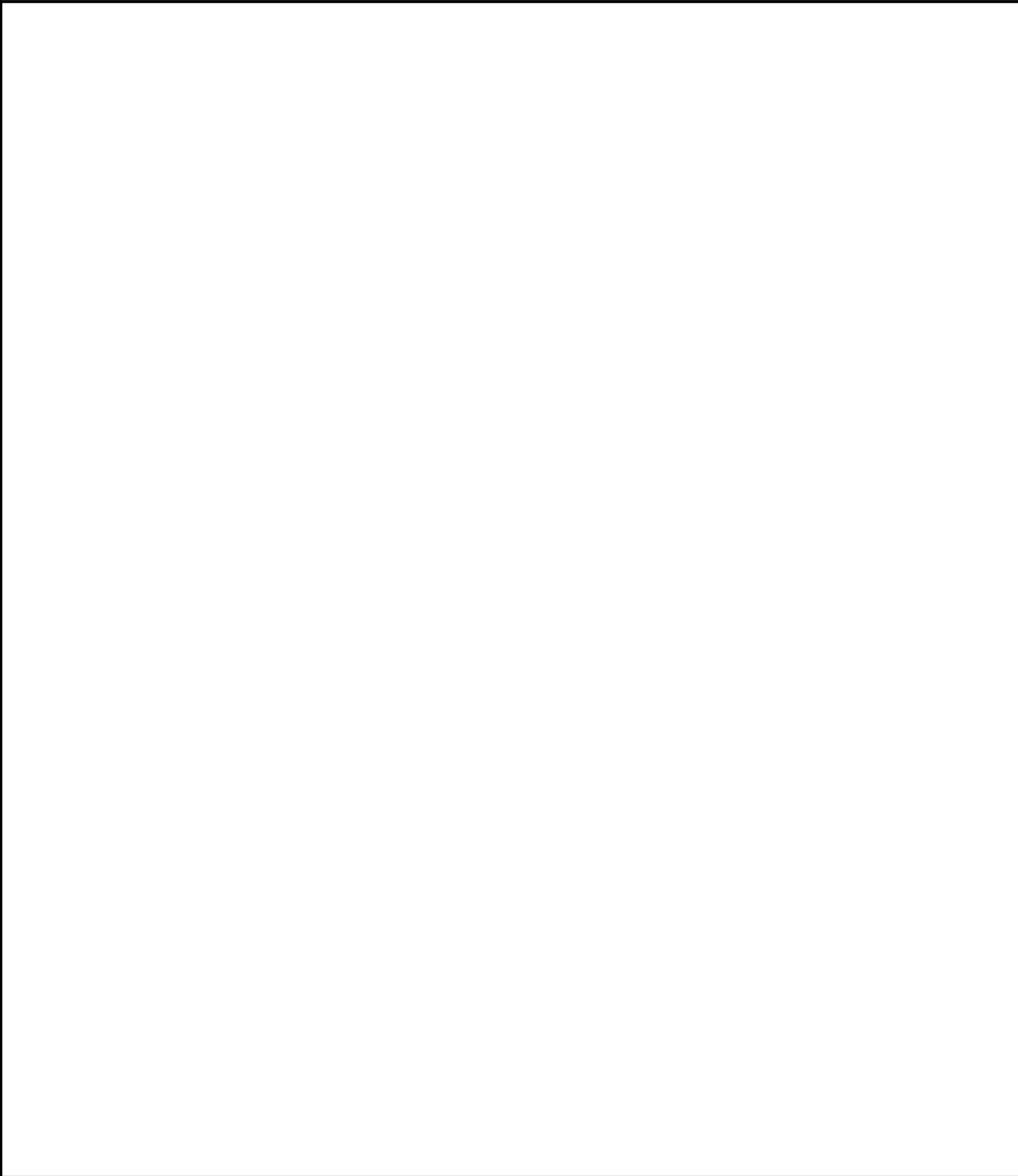
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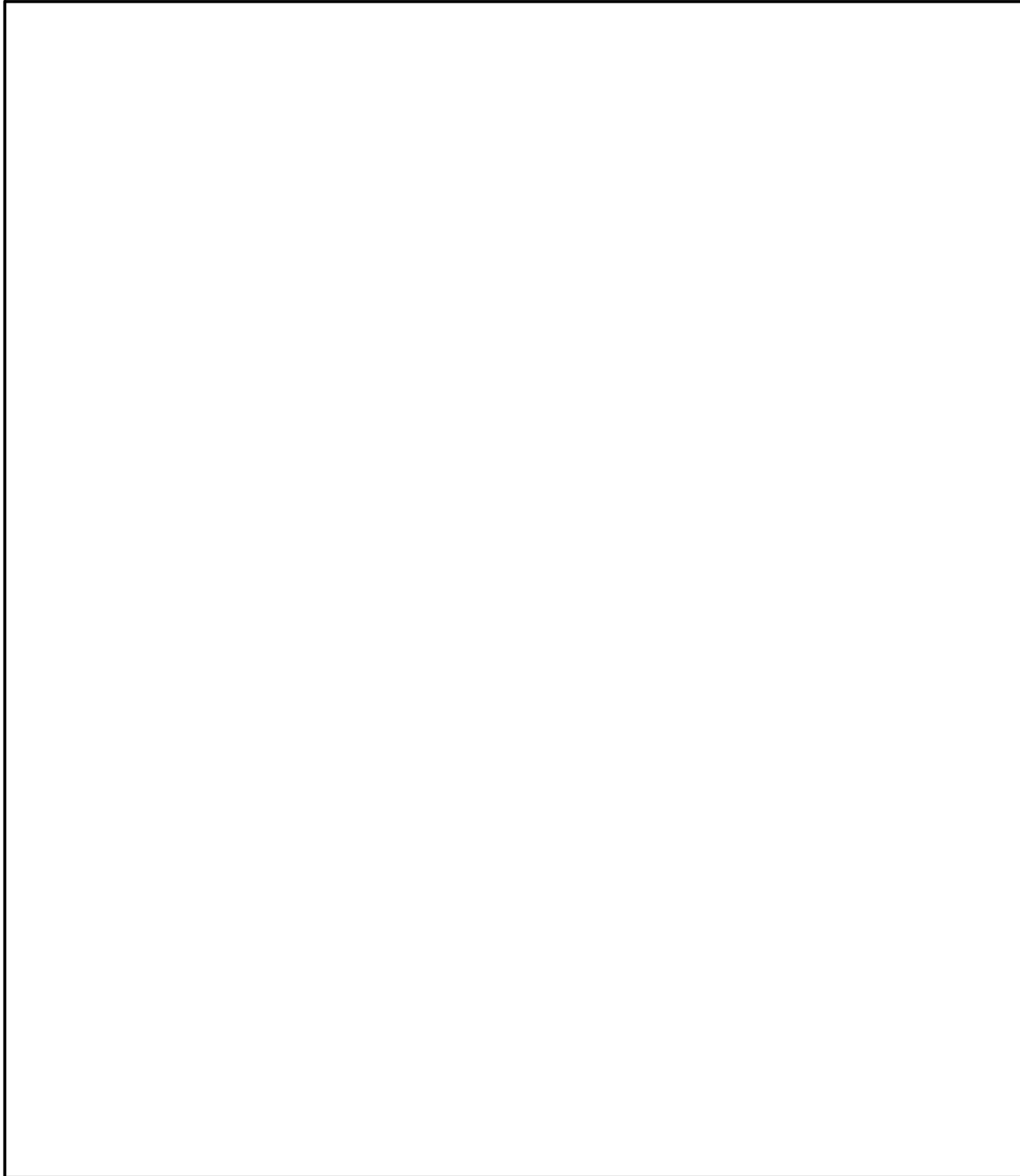
3 BARRIER FREE WASHROOM
 M201



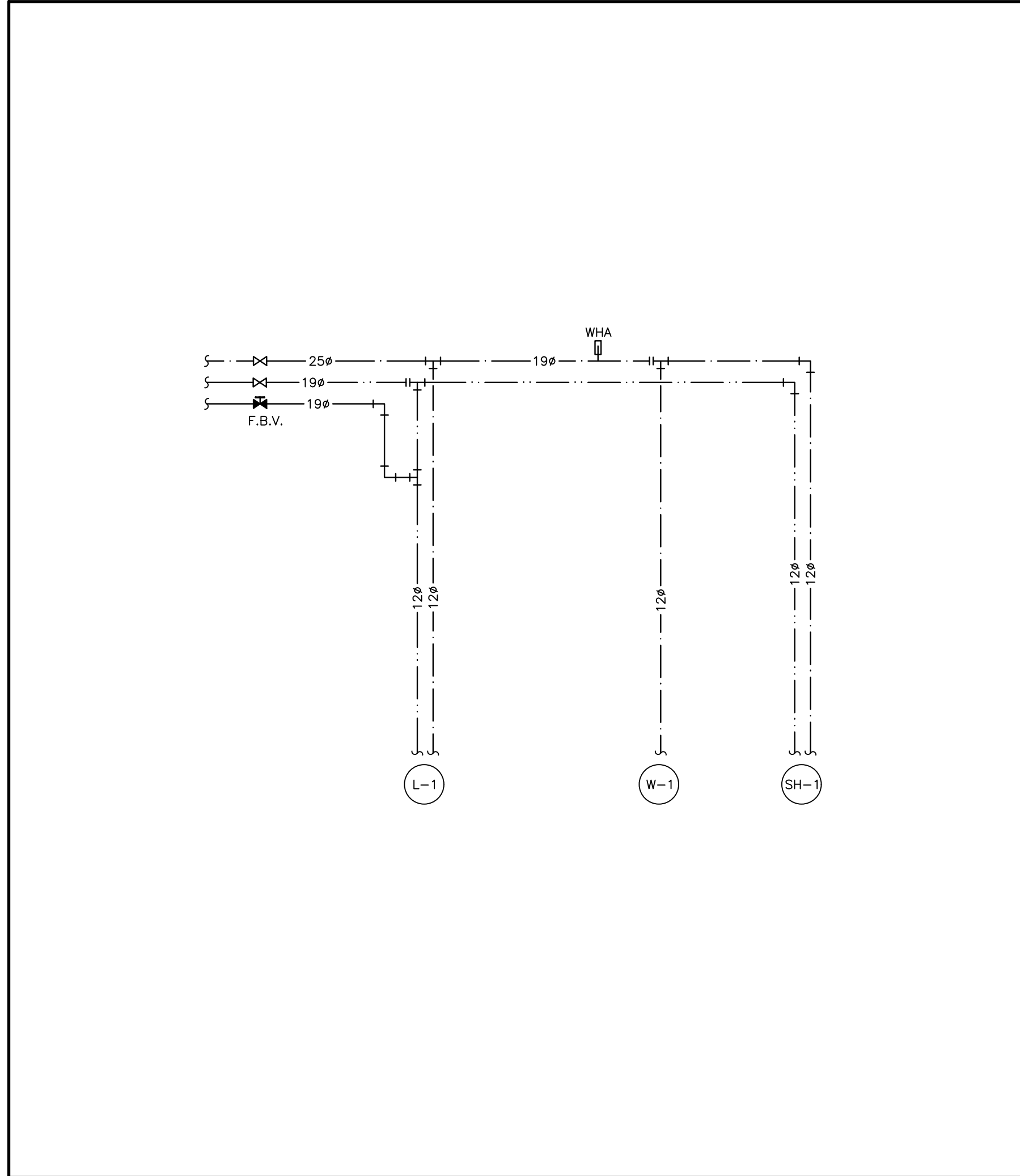
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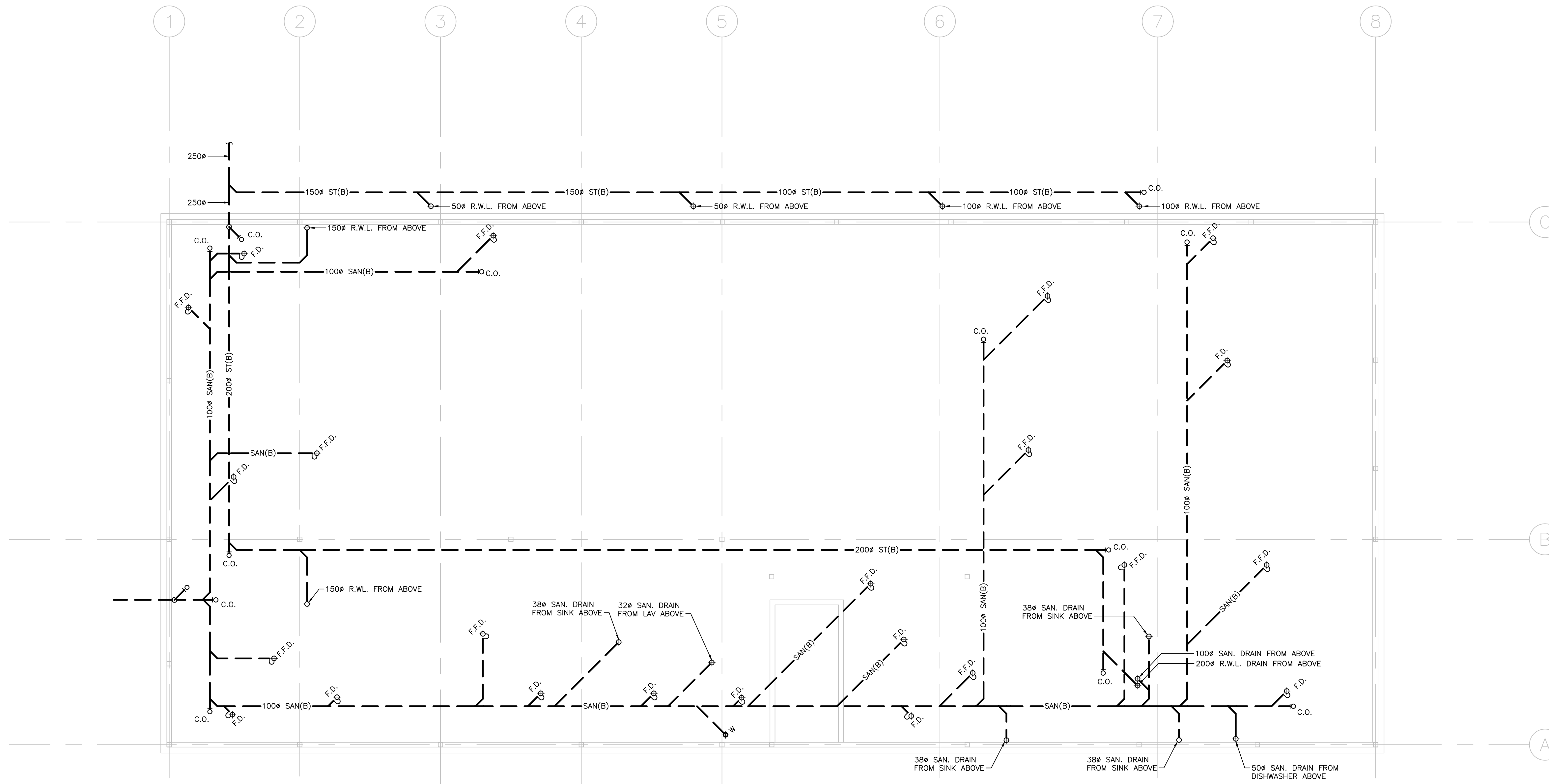
6 NOT USED
 M201



4 NOT USED
 M201



2 WASHROOM WITH SHOWER
 M201



GENERAL NOTES:

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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 SANITARY 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.
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- 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.
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REVISIONS AND ISSUES

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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

21076

DRAWING NUMBER

M300

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

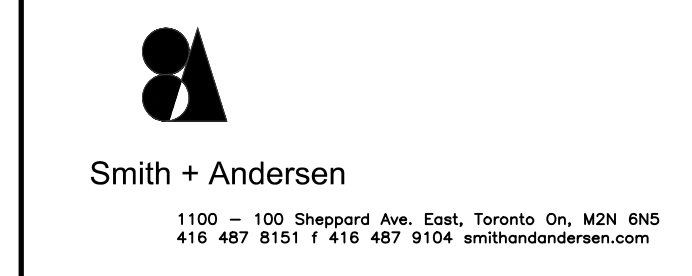
REV	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021.08.25	
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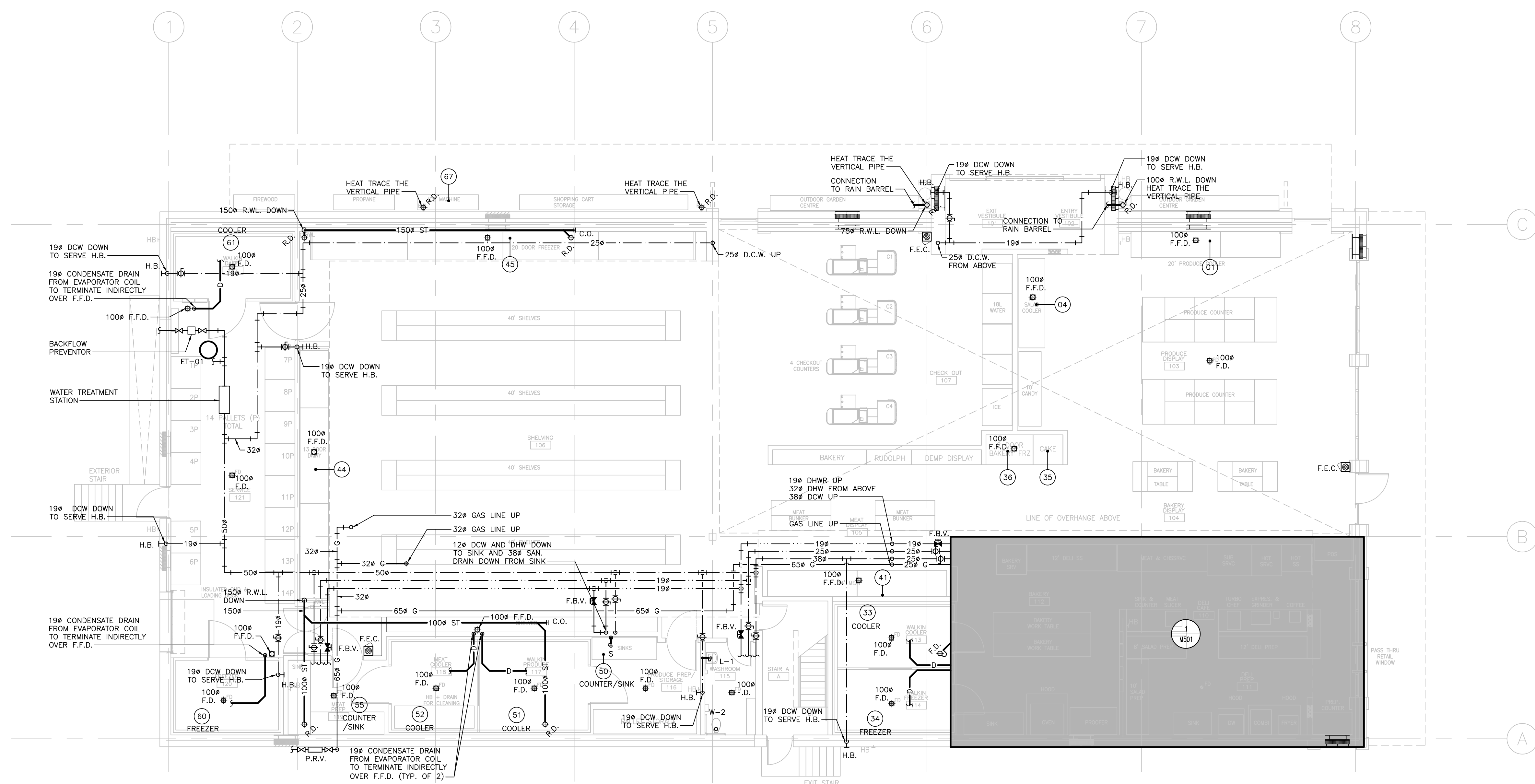


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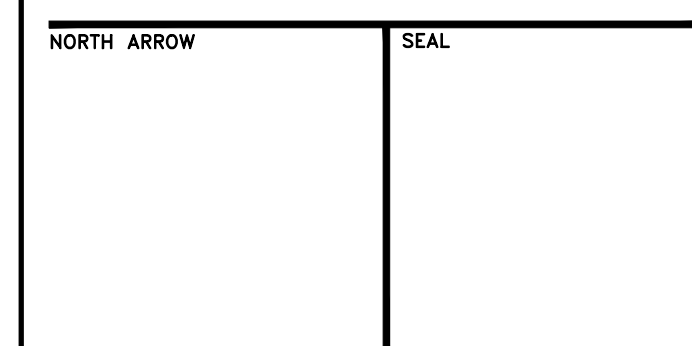


KITCHEN EQUIPMENT SCHEDULE										
ITEM No.	EQUIPMENT CATEGORY	COLD WATER SIZE (mm)	HOT WATER SIZE (mm)	FILTERED H2O	DIRECT DRAIN SIZE (mm)	INDIRECT DRAIN SIZE (mm)	INDIRECT DRAIN ROUGH-IN	GAS SIZE (mm)	MBTU/H	
01	12' PRODUCE COOLER	--	--	--	--	38ø	FFD	--	--	
04	12' SALAD COOLER	--	--	--	--	38ø	FFD	--	--	
35	CAKE	--	--	--	19ø	38ø	FFD	--	--	
36	2 DOOR BAKERY FREEZER	--	--	--	--	38ø	FFD	--	--	
41	24' MEAT SHELF	--	--	--	--	38ø	FFD	--	--	
44	5 DOOR DAIRY SHELVING	--	--	--	--	38ø	FD	--	--	
44	3 DOOR DAIRY SHELVING	--	--	--	--	38ø	FFD	--	--	
45	5 DOOR FREEZER SHELVING	--	--	--	--	38ø	FFD	--	--	

KITCHEN EQUIPMENT SCHEDULE										
ITEM No.	EQUIPMENT CATEGORY	COLD WATER SIZE (mm)	HOT WATER SIZE (mm)	FILTERED H2O	DIRECT DRAIN SIZE (mm)	INDIRECT DRAIN SIZE (mm)	INDIRECT DRAIN ROUGH-IN	GAS SIZE (mm)	MBTU/H	
33	COOLER	--	--	--	--	38ø	FD	--	--	
47	ICE MACHINE	12ø	--	--	19ø	--	--	--	--	
50	COUNTER/SINK	12ø	12ø	--	38ø	--	--	--	--	
51	COOLER	--	--	--	--	38ø	FD	--	--	
52	COOLER	--	--	--	--	38ø	FD	--	--	
55	COUNTER/SINK	12ø	12ø	--	38ø	--	--	--	--	
60	FREEZER	--	--	--	--	38ø	FD	--	--	
61	COOLER	--	--	--	--	38ø	FD	--	--	
67	ICE MACHINE	12ø	--	--	19ø	--	--	--	--	

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

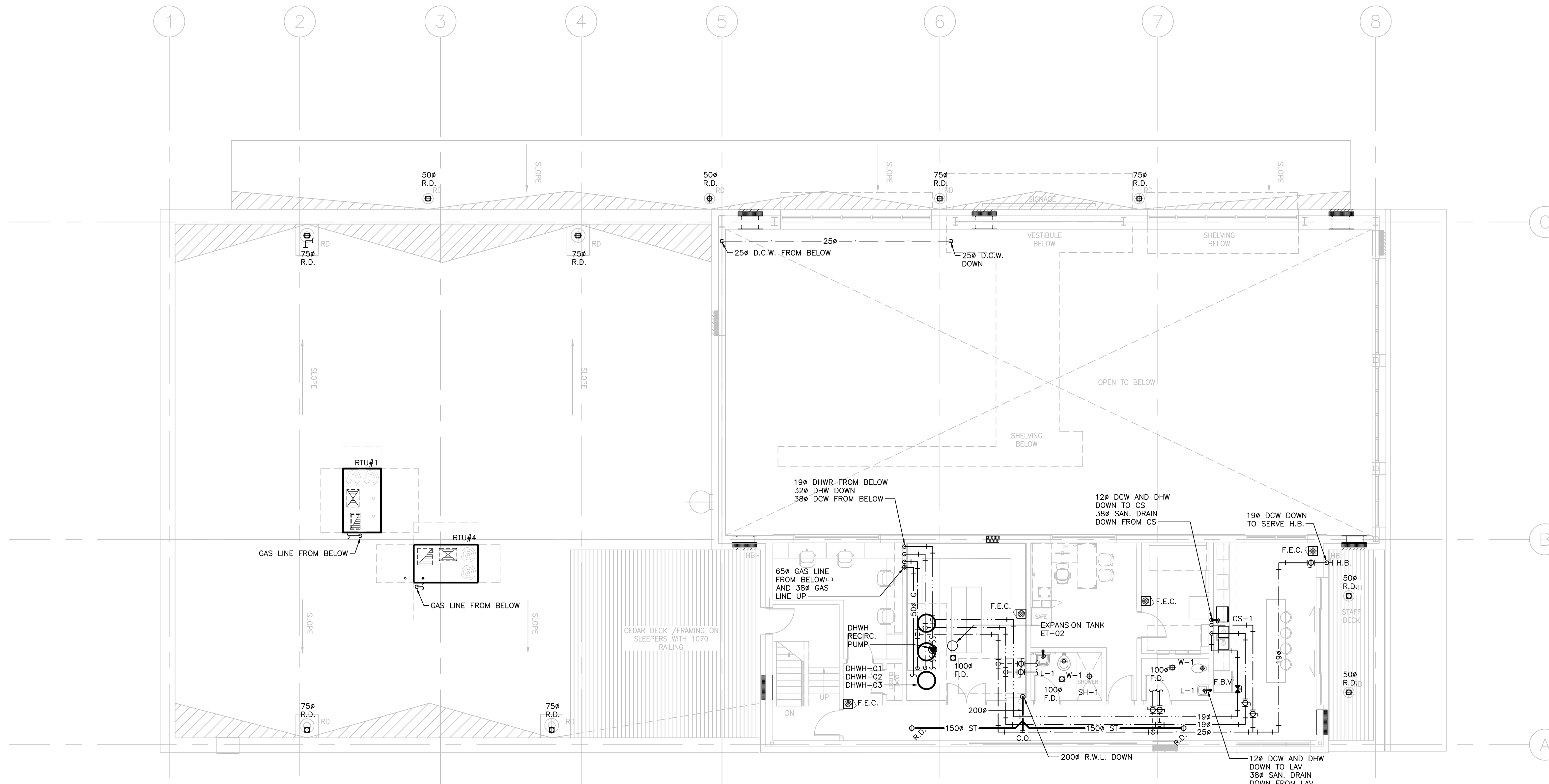
DRAWING TITLE
**GROUND FLOOR PLAN
 PLUMBING AND DRAINAGE**

SCALE
 1:100

DATE
JUNE 16, 2021

PROJECT NUMBER
21076

DRAWING NUMBER
M301



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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.
- 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 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.

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	
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NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLIEGH STREET, APSLEY

DRAWING TITLE

SECOND FLOOR PLAN
 PLUMBING AND DRAINAGE

SCALE

1:100

DATE

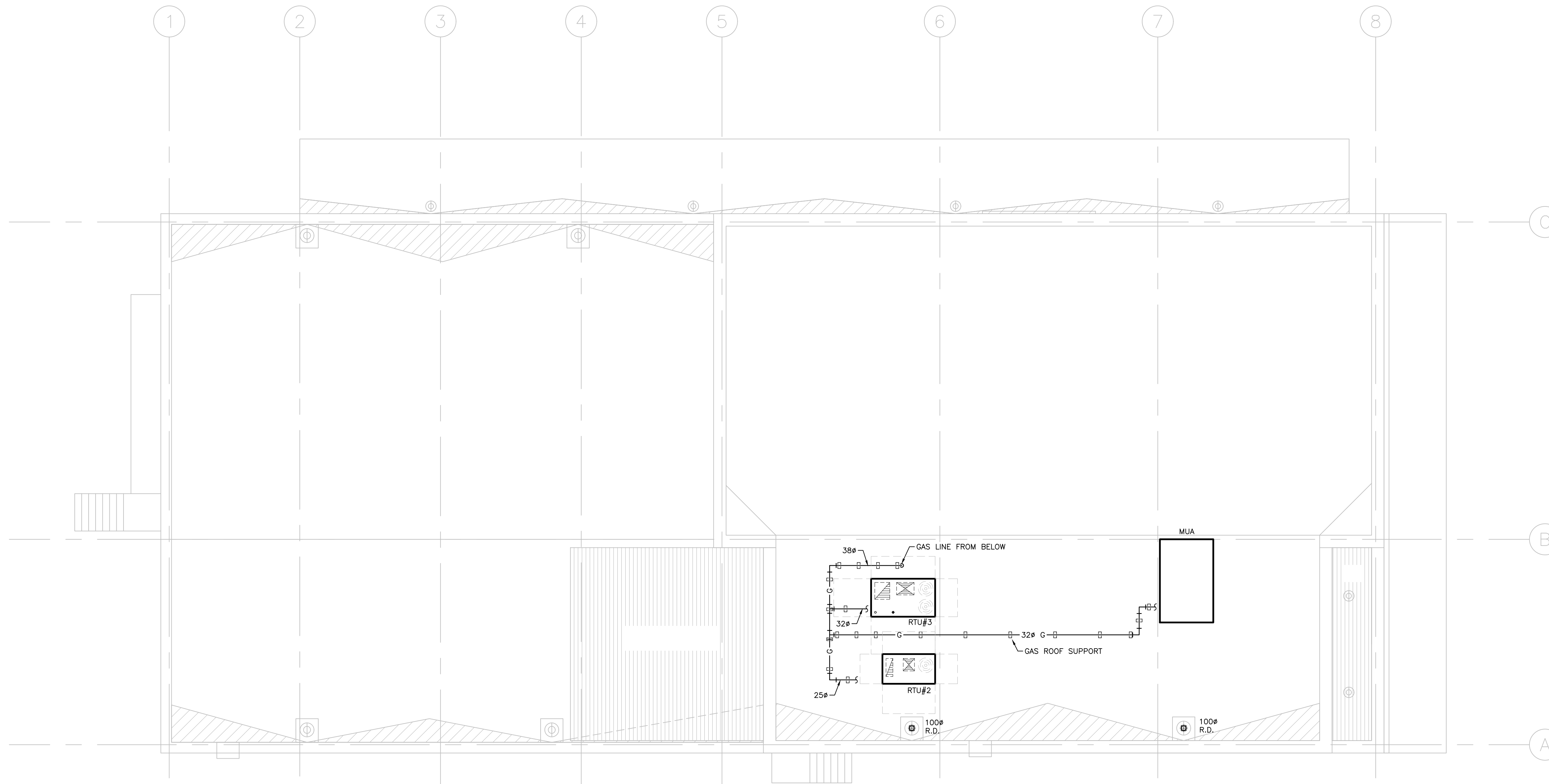
JUNE 16, 2021

PROJECT NUMBER

21076

DRAWING NUMBER

M302



GENERAL NOTES:

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NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE

ROOF PLAN PLUMBING AND
 DRAINAGE

SCALE

1:100

DATE

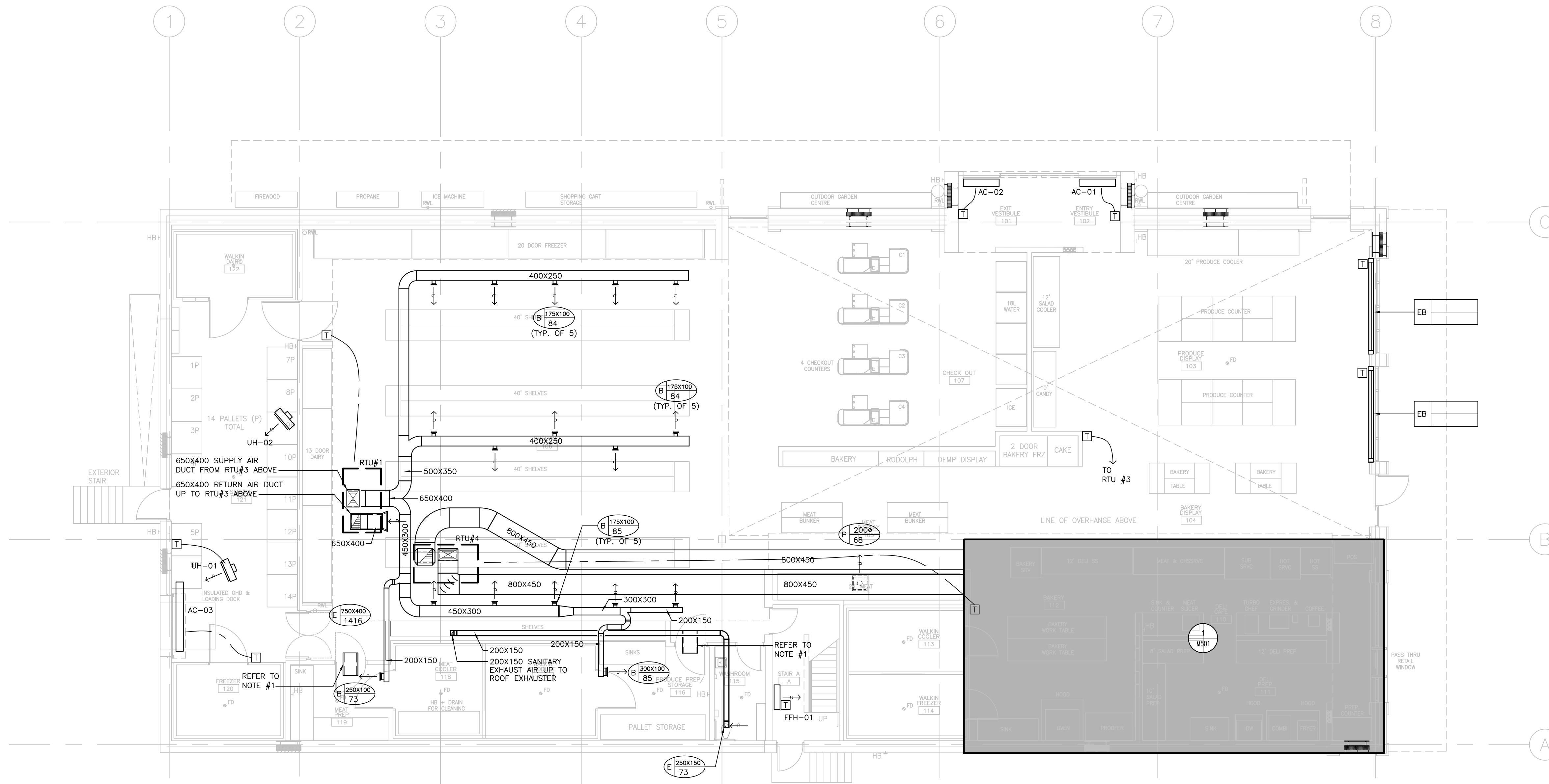
JUNE 16, 2021

PROJECT NUMBER

21076

DRAWING NUMBER

M303



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

GENERAL NOTES:

1. 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.
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.

HVAC NOTES:

1. 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.
2. 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.
3. INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
4. PROVIDE DIFFUSER DUCT RUN-OUTS THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
5. MAINTAIN A MINIMUM OF 2400MM (96 IN.) CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
6. 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.
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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
21076

DRAWING NUMBER

M401

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NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

SECOND FLOOR PLAN HVAC

SCALE

1:100

DATE

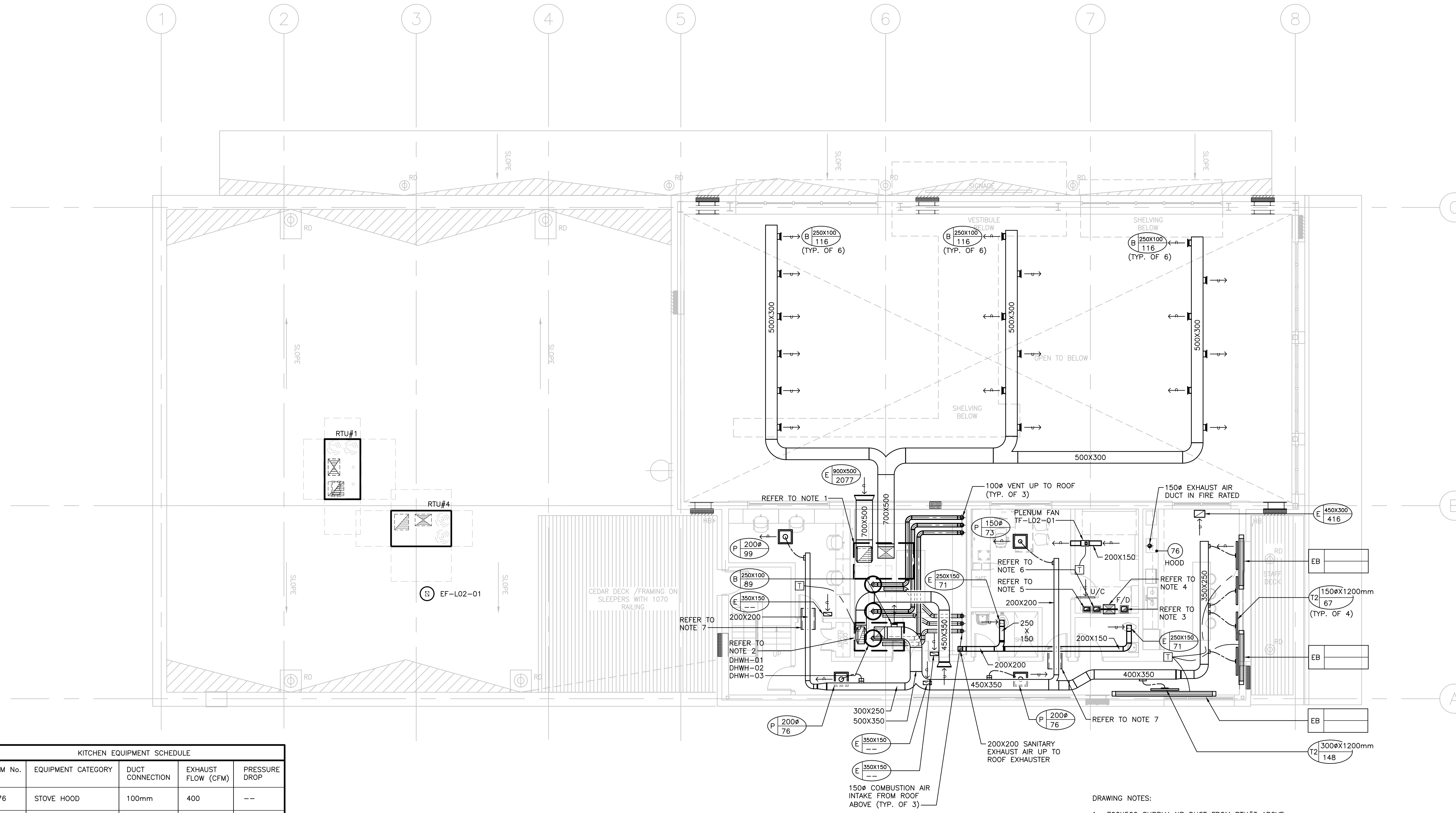
JUNE 16, 2021

PROJECT NUMBER

21076

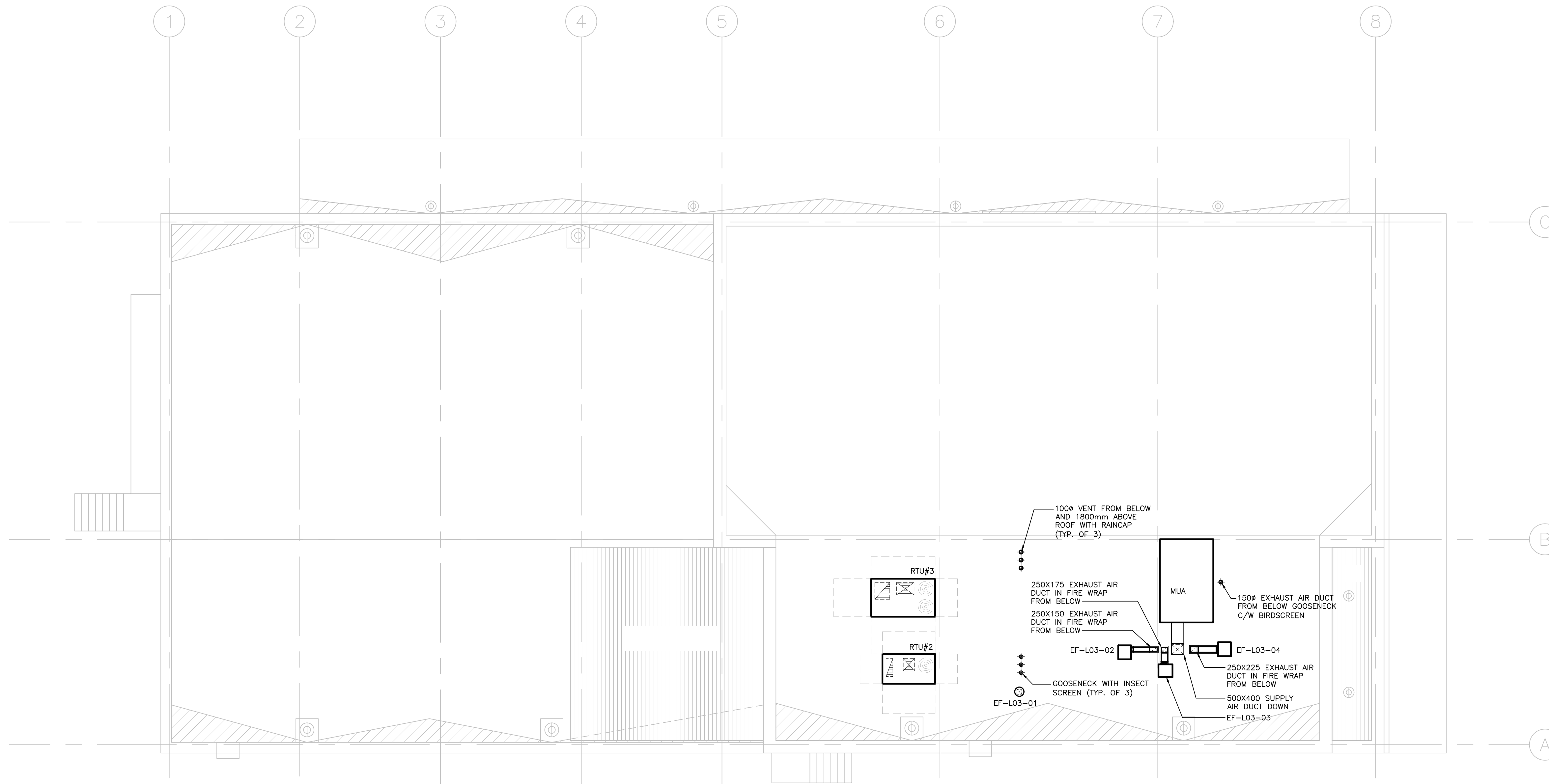
DRAWING NUMBER

M402



ITEM No.	EQUIPMENT CATEGORY	DUCT CONNECTION	EXHAUST FLOW (CFM)	PRESSURE DROP
76	STOVE HOOD	100mm	400	--

- DRAWING NOTES:
- 700X500 SUPPLY AIR DUCT FROM RTU#3 ABOVE. 700X500 RETURN AIR DUCT UP TO RTU#3 ABOVE.
 - 450X350 SUPPLY AIR DUCT FROM RTU#2 ABOVE. 450X350 RETURN AIR DUCT UP TO RTU#2 ABOVE.
 - 250X225 EXHAUST AIR DUCT IN FIRE WRAP FROM BELOW AND UP.
 - 500X400 SUPPLY AIR DUCT IN FIRE WRAP FROM ABOVE AND DOWN.
 - 250X175 EXHAUST AIR DUCT FROM BELOW AND UP.
 - 250X150 EXHAUST AIR DUCT FROM BELOW AND UP.
 - 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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NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY

DRAWING TITLE

ROOF PLAN HVAC

SCALE

1:100

DATE

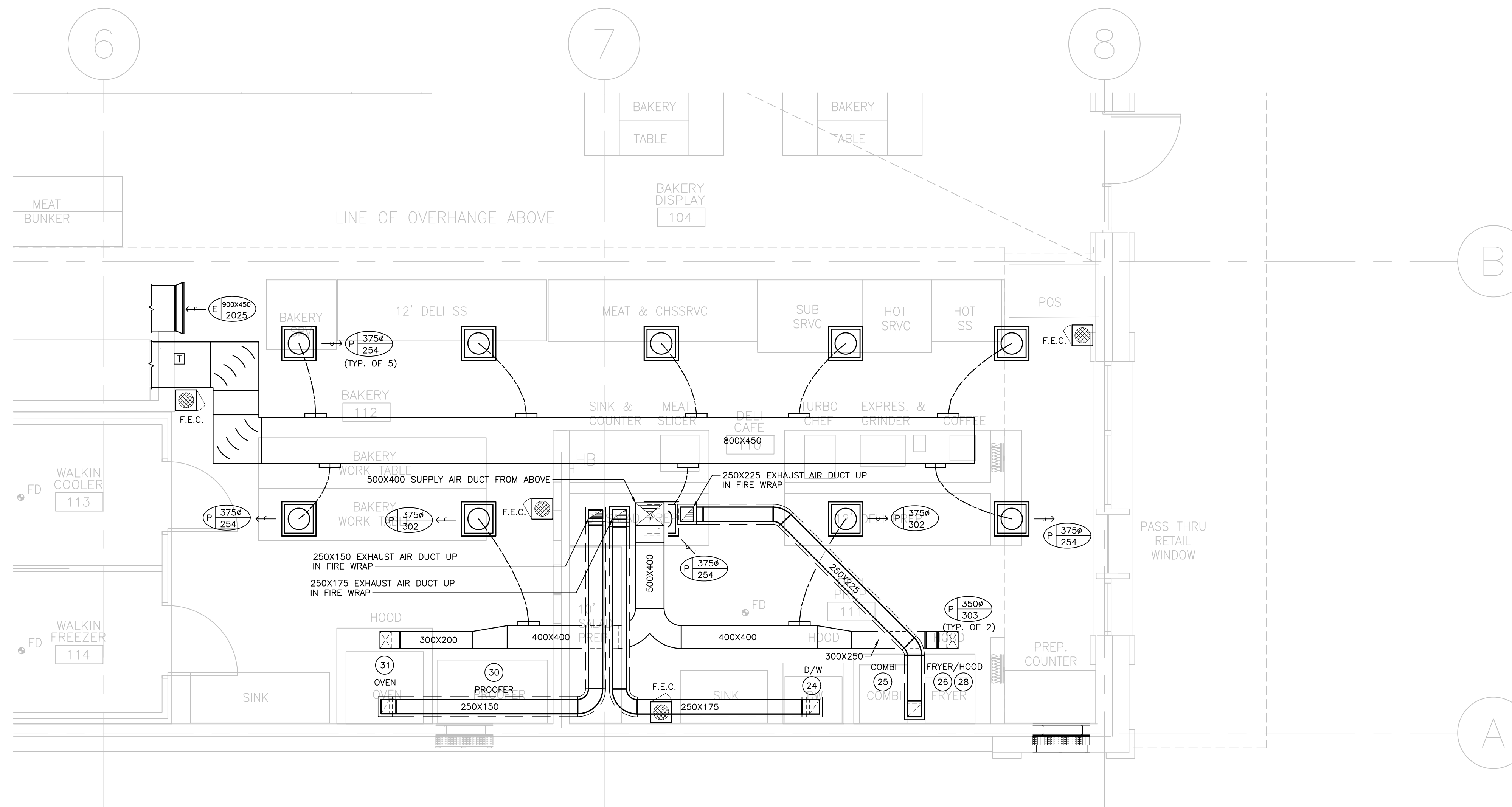
JUNE 16, 2021

PROJECT NUMBER

21076

DRAWING NUMBER

M403



KITCHEN EQUIPMENT SCHEDULE									
ITEM No.	EQUIPMENT CATEGORY	COLD WATER SIZE (mm)	HOT WATER SIZE (mm)	FILTERED H2O	DIRECT DRAIN SIZE (mm)	INDIRECT DRAIN SIZE (mm)	INDIRECT DRAIN ROUGH-IN	GAS SIZE (mm)	MBTU/H
08	12' DELI SELF SERVE	--	--	--	--	38#	FFD	--	--
09	MEAT AND CHEESE	--	--	--	--	38#	FFD	--	--
10	SUB SERV	--	--	--	--	38#(x2)	FFD	--	--
11	HOT SRVC	--	--	--	--	38#(x2)	FFD	--	--
15	MEAT SLICER COUNTER/SINK	12#	12#	--	38#	--	--	--	--
17	ESPRESSO MACHINE	12#	--	--	25#	--	--	--	--
18	COFFEE MAKER	6#	--	--	--	--	--	--	--
23	SINK	12#	12#	--	38#	--	--	--	--
24	DISHWAHER	19#	19#	19#	16#	--	--	--	--
25	COMBI	19#	--	--	--	50#	FD	19#	--
26	FRYER	--	--	--	--	--	--	19#	140
30	PROOFER	12#	--	--	--	19#	FD	--	--
31	OVEN	6 NPT	--	YES	--	--	--	--	--
32	COUNTER/SINK	12#	12#	--	38#	--	--	--	--

KITCHEN EQUIPMENT SCHEDULE				
ITEM No.	EQUIPMENT CATEGORY	DUCT CONNECTION	EXHAUST FLOW (CFM)	PRESSURE DROP
28	EXHAUST HOOD	50mm	1,000	--

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 - 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 800X400X1200 (WXXHXXL) INTERNAL ACOUSTIC INSULATED ELBOW OR STRAIGHT TRANSFER DUCTS UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS IN LIEU OF SILENCERS ARE NOT PERMITTED.

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	
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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
21076

DRAWING NUMBER
M502

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 DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R, DEDICATED CIRCUIT		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED, SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R
	WALL MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, 2 POLE, SPLIT CIRCUIT		SYSTEMS FURNITURE FEED POINT FOR POWER & COMMS. CABLING, LETTER RECEPTACLE LOCATIONS: W= WALL, F= FLOOR, P= PAC POLE, WM = WIREMOLD
	WALL MOUNTED ABOVE COUNTER 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 120 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

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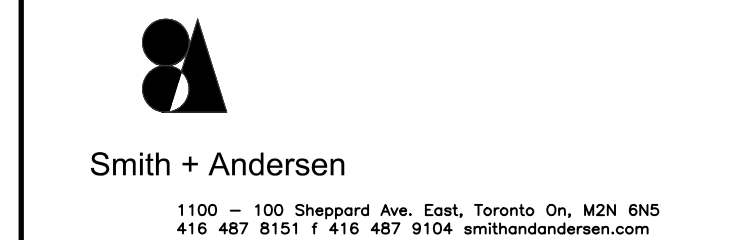
REVISIONS AND ISSUES			
REV	DESCRIPTION	DATE	BY
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NORTH ARROW	SEAL
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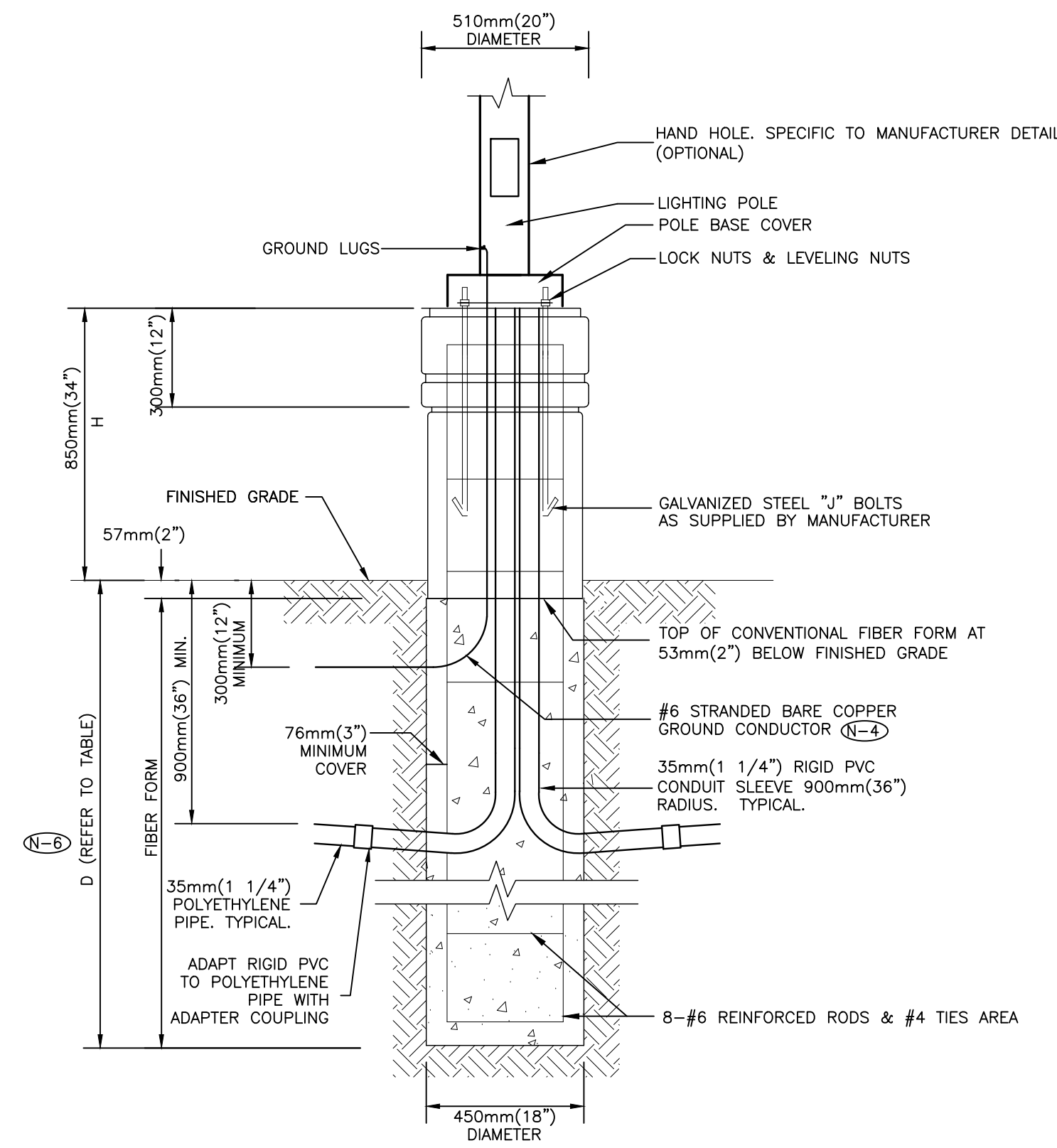
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLINGHAM STREET, APSLEY**

DRAWING TITLE
LEGEND

SCALE
NTS
DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
DRAWING NUMBER

E001

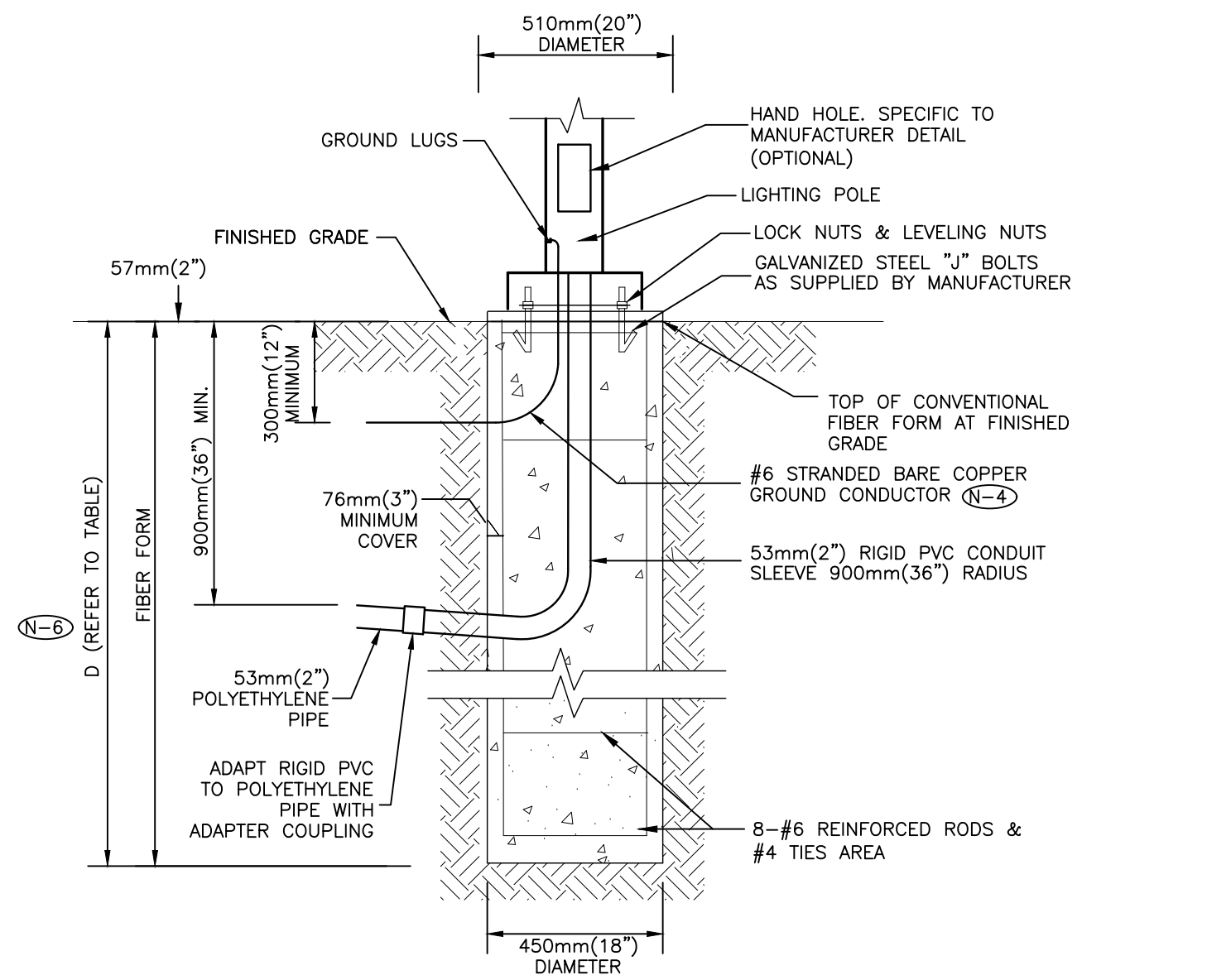


NOTES:

- (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.

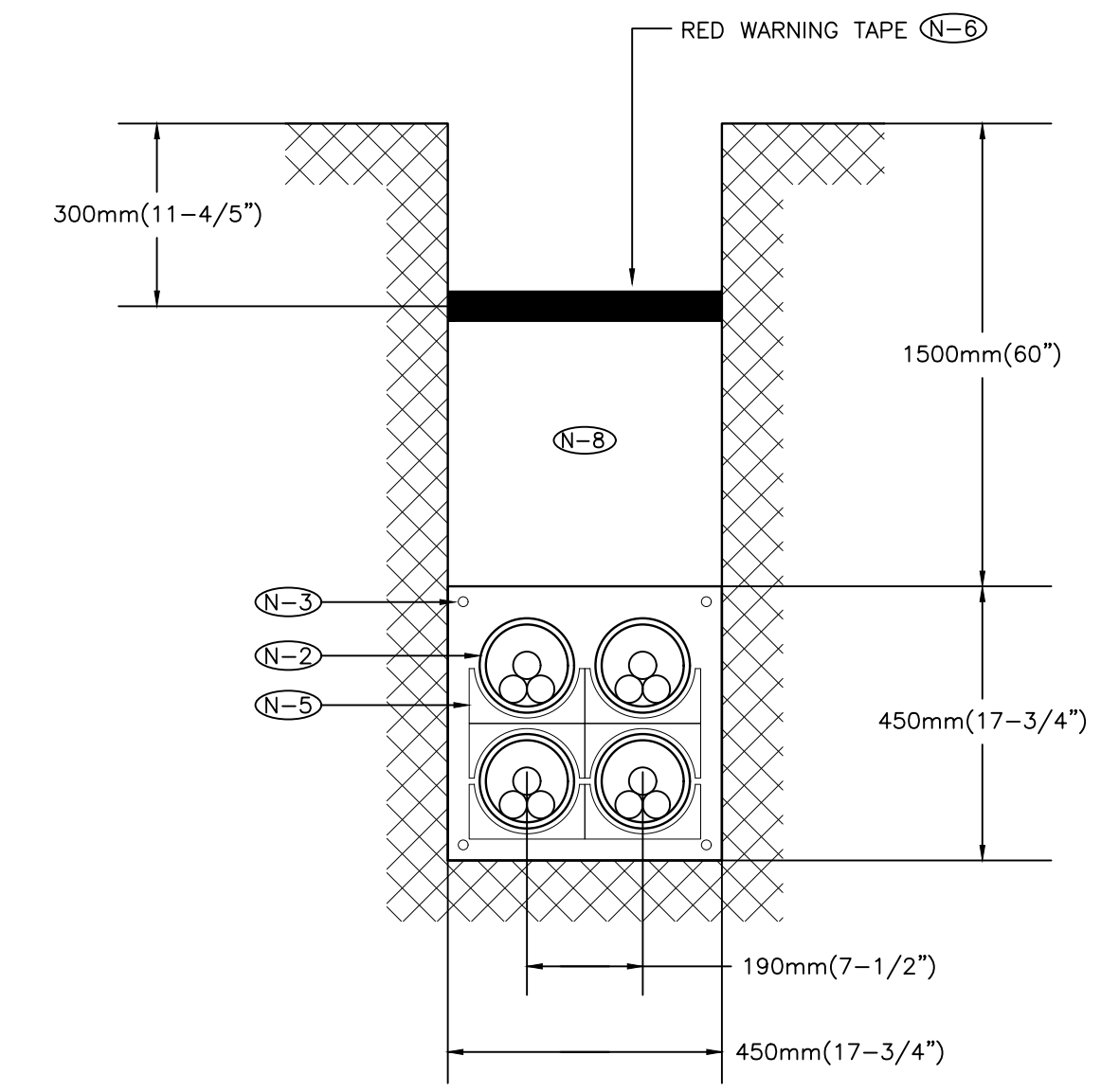


NOTES:

- (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) 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
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

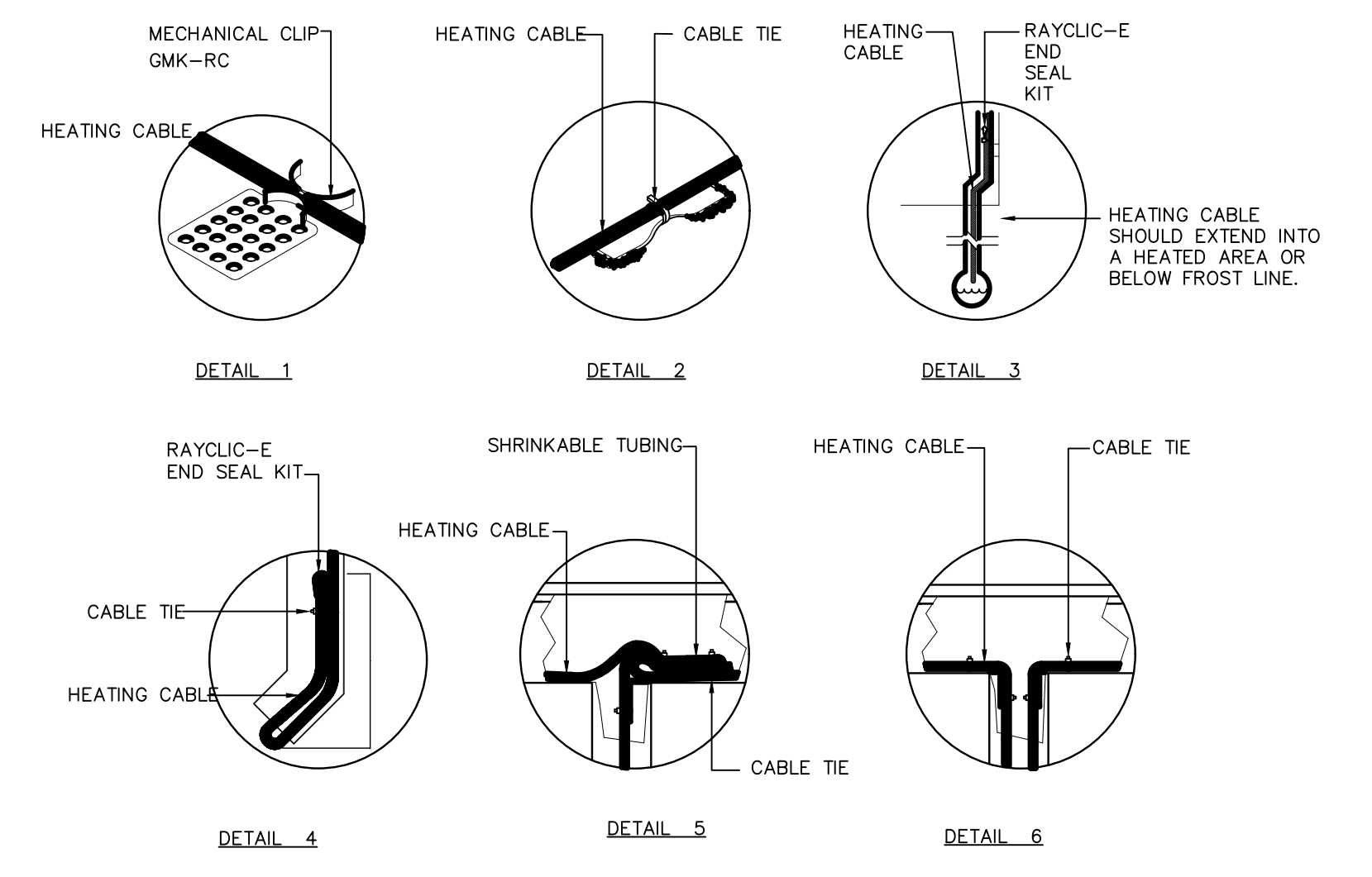
5 LOW BASE PEDESTRIAN WALKWAY LIGHTING POLE ON FINISHED GRADE CONCRETE BASE DETAIL
SCALE: N.T.S.



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

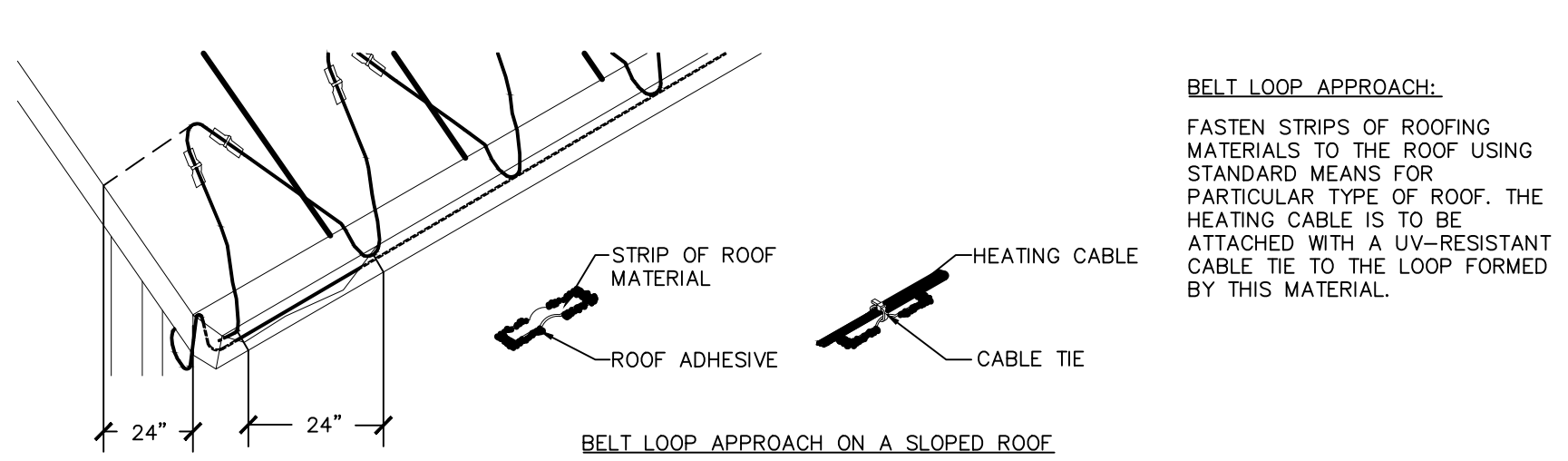
1 PRIMARY CONCRETE ENCASED DUCT BANK - 2x2
N.T.S.



NOTES:

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

2 ROOF AND GUTTER 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.

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REVISIONS AND ISSUES

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NORTH ARROW SEAL

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

DRAWING TITLE
ELECTRICAL DETAILS

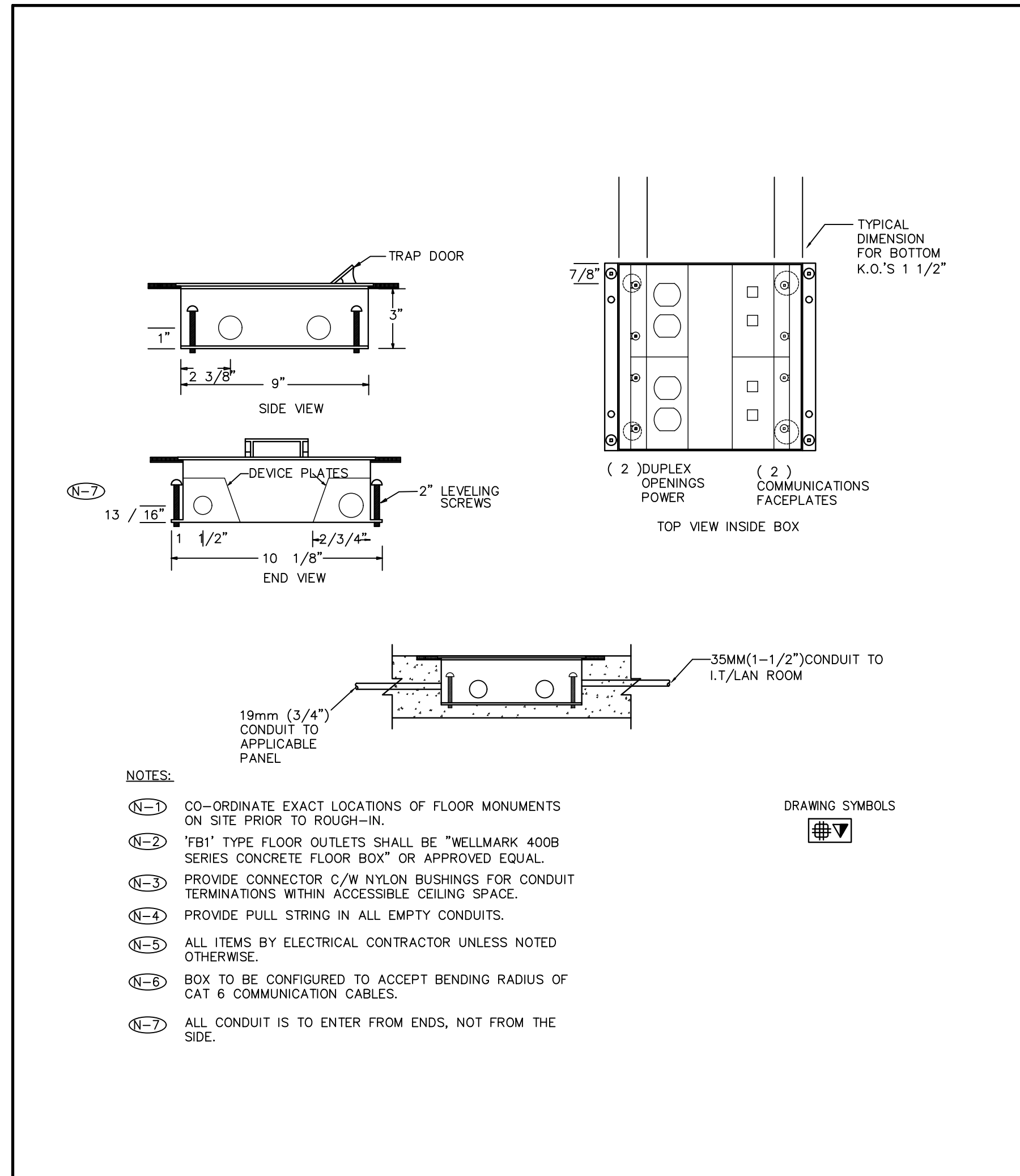
SCALE
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DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
DRAWING NUMBER

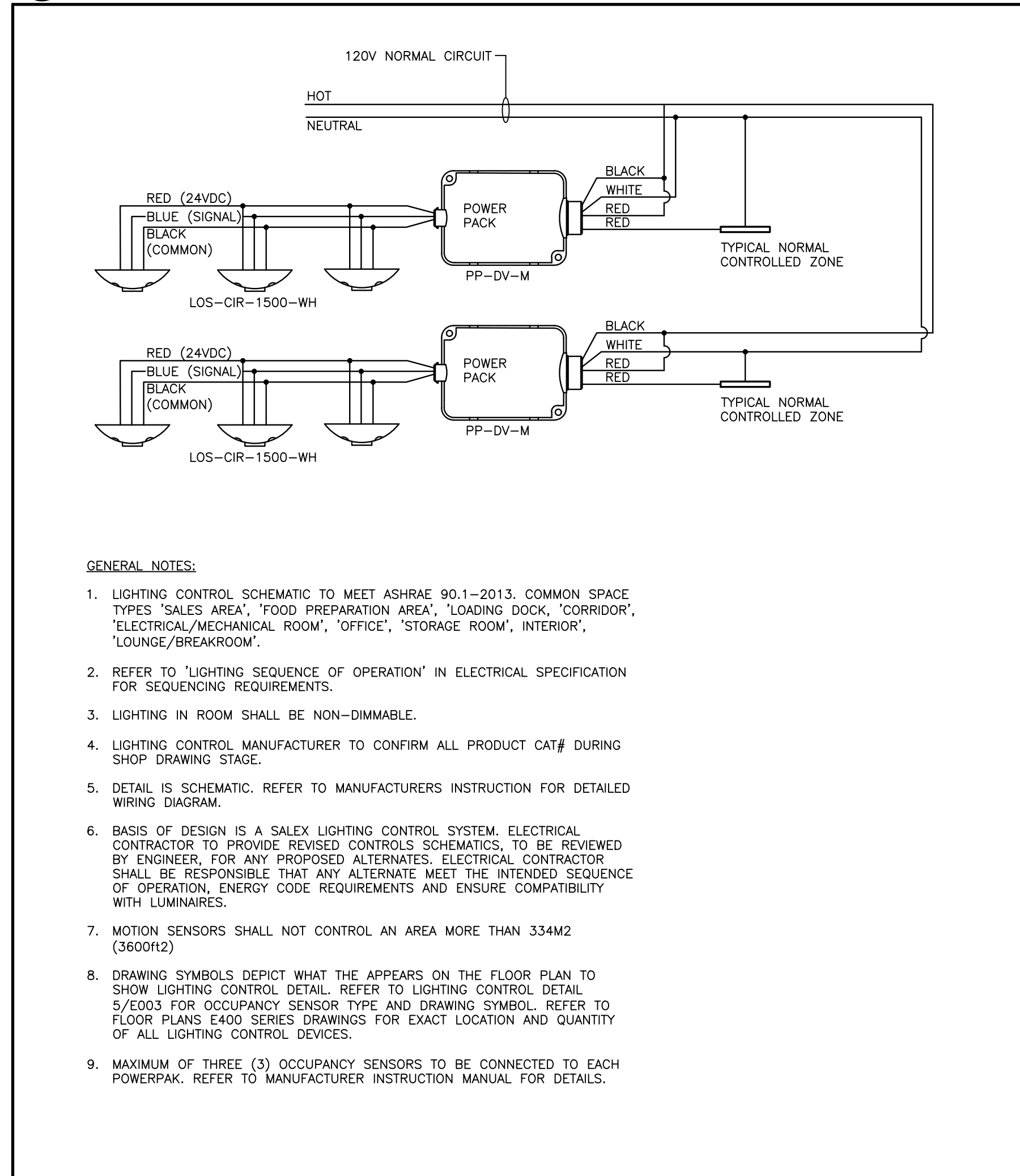
E002

LIGHTING CONTROL SCHEDULE					
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER: CAT. #	APPLICATION	REMARKS
A	(OS 'A')	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	(OS 'B')	PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR	PW-301	WASHROOM	
C	(OS 'C')	PASSIVE INFRARED CEILING SENSOR	CI-305	DELI/BAKERY	
D	(OS 'D')	DUAL TECHNOLOGY CEILING SENSOR	DT-305	OFFICE STORAGE STAFF LOUNGE	
E	(OS 'E')	ULTRASONIC CEILING SENSOR	UT-305-3 HALLWAY	CORRIDOR	
PC	(PD)	PHOTOCELL	LMPO-200 c/w LMIN-104	EXTERIOR	
		RELAY PANEL	LMCP8-10V-115/27 7 C/W LENC8S and LMCT-100-2	EXTERIOR	

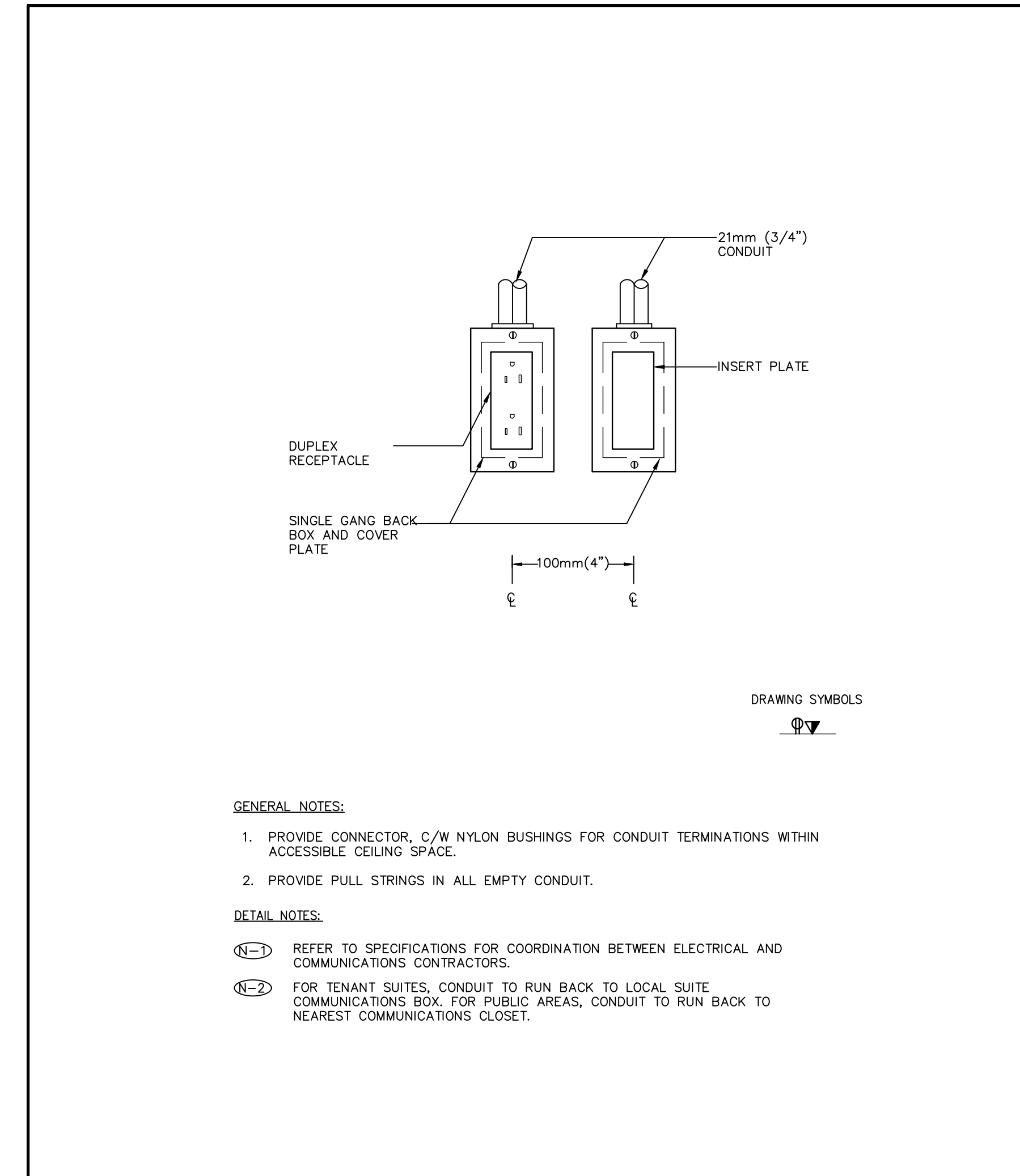
5 LIGHTING CONTROL SCHEDULE
E003 N.T.S.



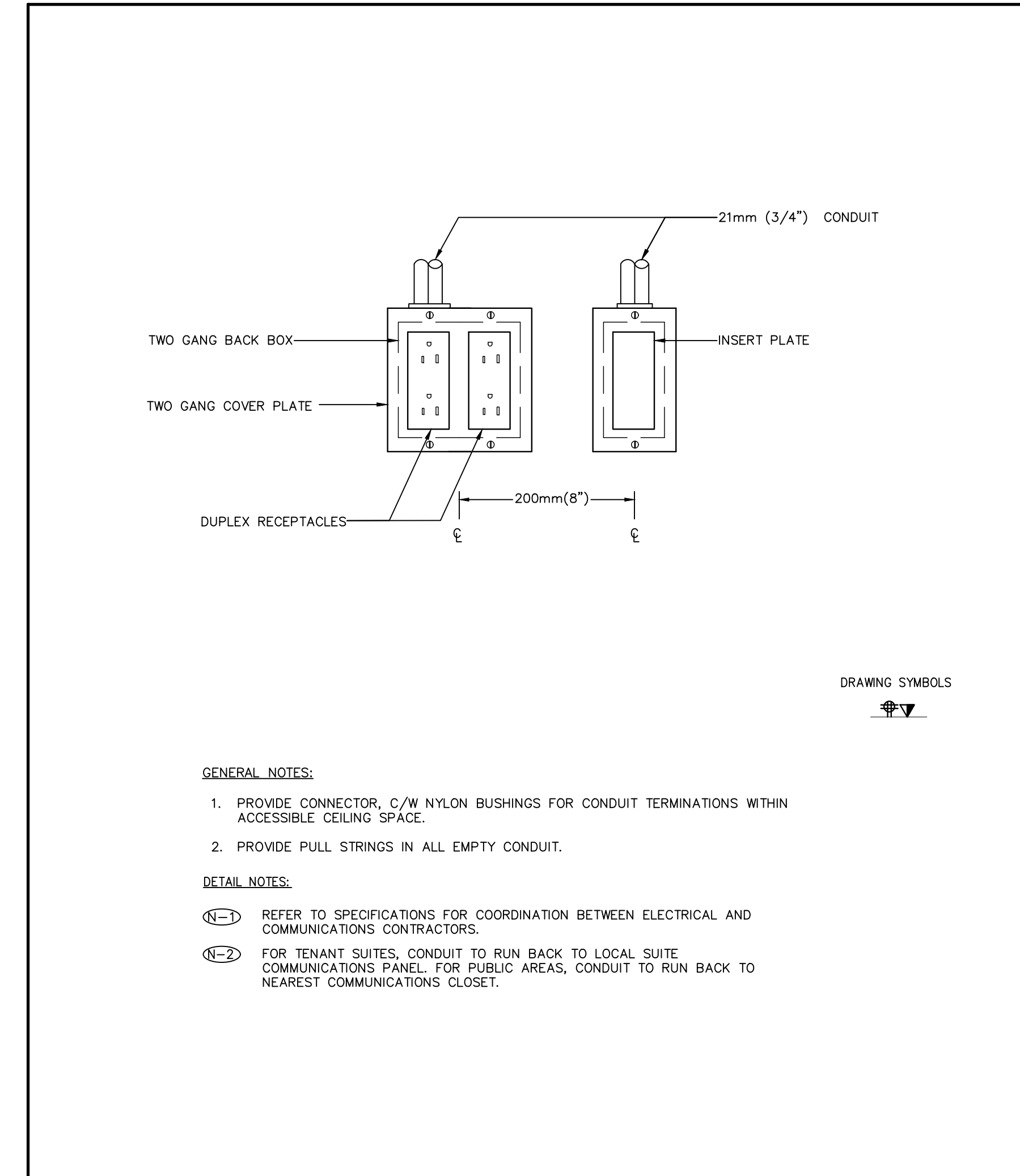
3 FLOOR BOX DETAIL (IN SLAB)
E003 N.T.S.



2 OCCUPANCY SENSOR WIRING DIAGRAM
E003 N.T.S.



1 SINGLE GANG DUPLEX RECEPTACLE W/ COMMUNICATION OUTLETS
E003 N.T.S.



2 QUAD DUPLEX RECEPTACLE W/ COMMUNICATION OUTLETS
E003 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	
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NORTH ARROW	SEAL
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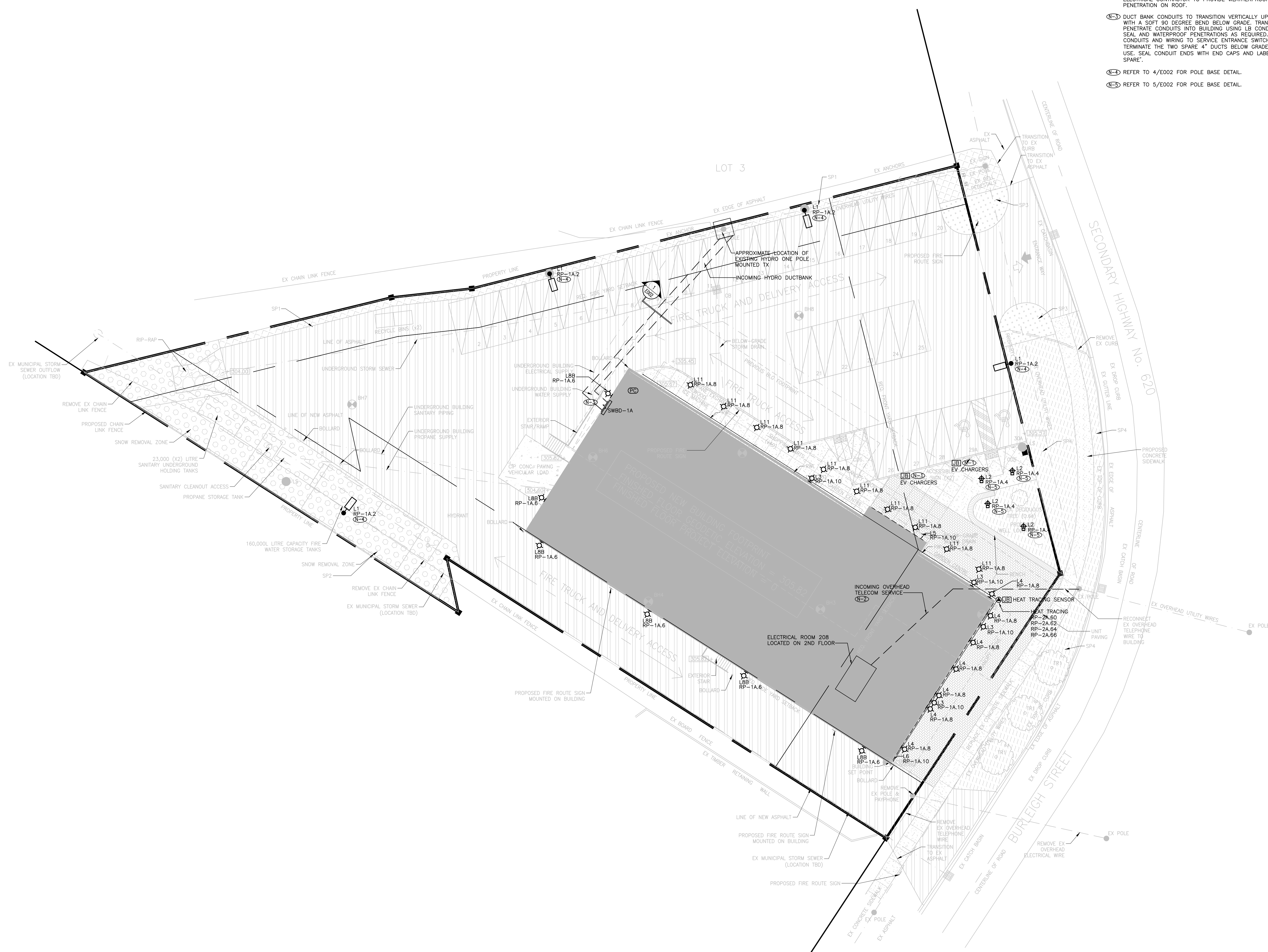
PROJECT TITLE
**NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY**

DRAWING TITLE
ELECTRICAL DETAILS

SCALE
1:100
DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
DRAWING NUMBER

E003



- DRAWING NOTES**
- (N-1) PROVIDE 2" CONDUIT ROUGH-INS C/W PULLSTRINGS FOR LEVEL 2 EV CHARGERS. CONDUITS TO TERMINATE IN FLUSH MOUNTED WEATHERPROOF JUNCTION BOX. RUN CONDUITS BACK TO SWBD-1A.
 - (N-2) INCOMING OVERHEAD TELECOM SERVICE TO ELECTRICAL ROOM 208. ELECTRICAL CONTRACTOR TO PROVIDE WEATHERPROOF GOOSENECK 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.

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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2	ISSUED FOR TENDER	2021.08.27	
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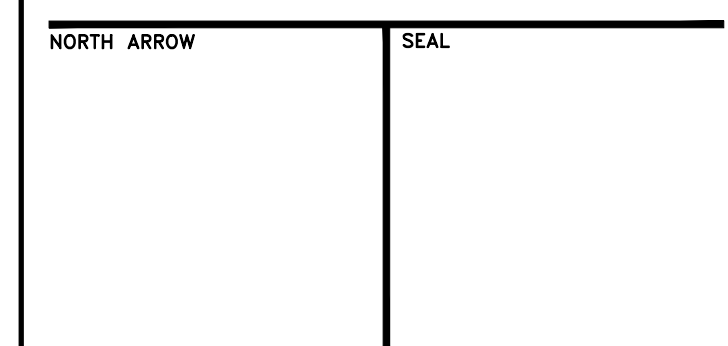
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PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLIEGH STREET, APSLEY**

DRAWING TITLE
SITE PLAN - ELECTRICAL

SCALE
 1:200

DATE
JUNE 16, 2021

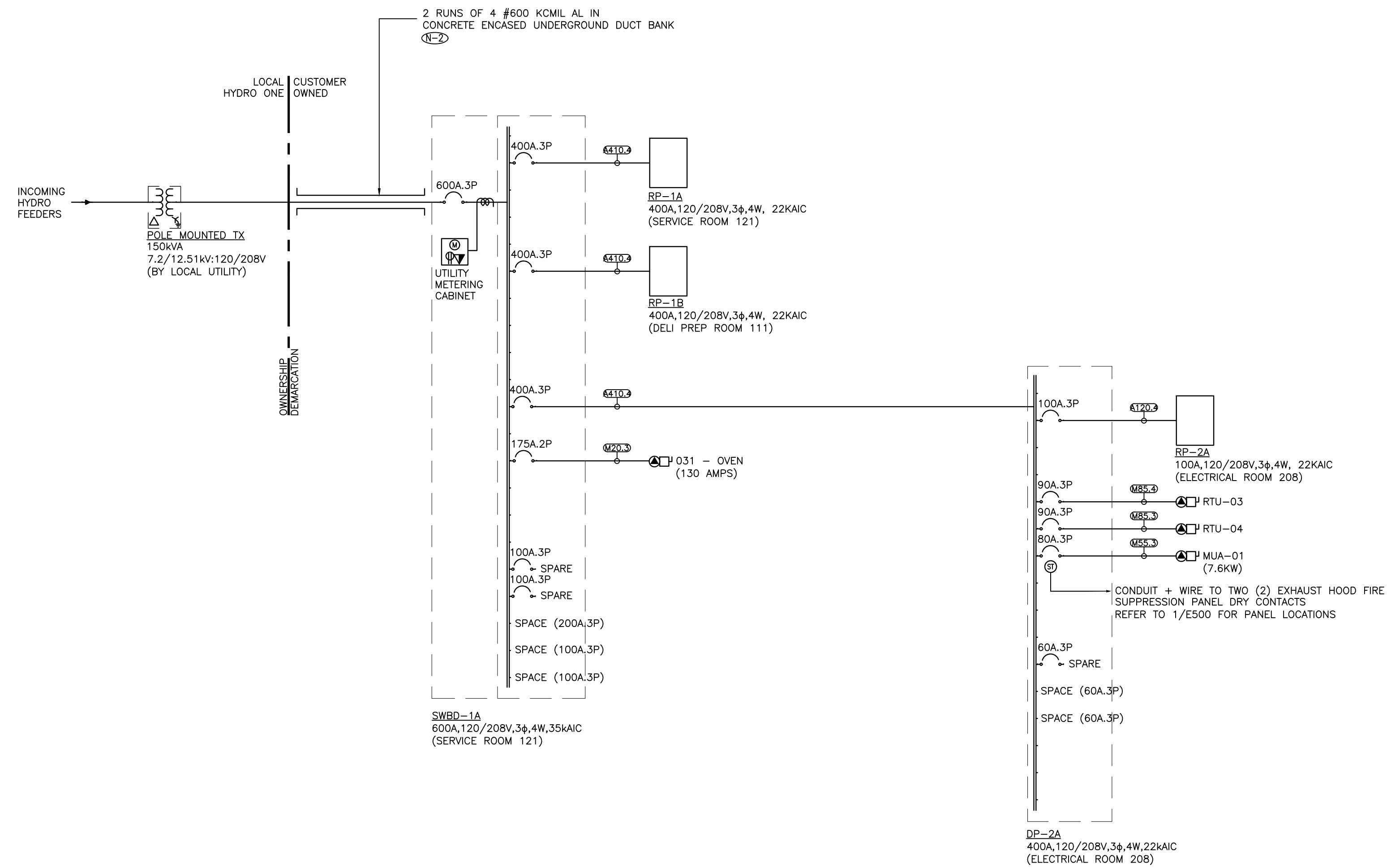
PROJECT NUMBER
21376.000.e001

DRAWING NUMBER

E100

GENERAL NOTES:

- (N-1) 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.
- (N-2) INSTALL SECONDARY CONDUCTORS IN A 1Hx2W CONFIGURATION. THE OTHER 2 DUCTS ARE TO BE RESERVED AS FUTURE SPARE DUCTS.



FEDER SCHEDULE
(PER TABLE 4 CEC (2018) AND 4-006, 60C (FOR EQUIPMENT 100A AND BELOW), 75C AND TABLE 6B, 1000V WITHOUT JACKET, TABLE 6C)

M-COPPER (MOTOR), C-COPPER, A-ALUMINUM

3-(3WIRE+BOND), 4-(4WIRE+BOND), 5-(5WIRE+BOND)

NOTES:
1. SCHEDULE IS TO BE USED FOR FEEDERS AND BRANCH WIRING ONLY. DO NOT USE FOR BRANCH WIRING FROM PANELBOARDS.
2. RW90 WIRING IS TO BE USED FOR UNDERGROUND INSTALLATIONS. CONDUIT SIZE HAS BEEN ADJUSTED TO ACCOMMODATE FOR 1000V INSULATION RATING.
3. FOR MOTORS REQUIRING FEEDERS GREATER THAN 110A, THE BONDING CONDUCTOR SHALL BE SIZED ACCORDING TO CEC RULE 10-614.

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 AND 4 WIRE SYSTEMS	3 WIRE+BONDING CONDUCTOR CONDUIT SIZE PER RUN	4 WIRE+BONDING CONDUCTOR CONDUIT SIZE PER RUN	5 WIRE + BONDING FEEDER NO.	FEEDER AMPACITY FOR 5 WIRE SYSTEMS	5 WIRE (DOUBLE NEUTRAL)/BONDING CONDUCTOR (HARMONIC MITIGATING TRANSFORMERS) CONDUIT SIZE PER RUN	5 WIRE (DOUBLE NEUTRAL)/BONDING CONDUCTOR (HARMONIC MITIGATING TRANSFORMERS) CONDUIT SIZE PER RUN		
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 1/2")	N/A	N/A	N/A	N/A	N/A	N/A
M70	1	#4 AWG + #6 AWG	70	35 (1 1/2")	41 (1 1/2")	N/A	N/A	N/A	N/A	N/A	N/A
M85	1	#3 AWG + #6 AWG	85	35 (1 1/2")	41 (1 1/2")	N/A	N/A	N/A	N/A	N/A	N/A
M95	1	#2 AWG + #6 AWG	95	41 (1 1/2")	41 (1 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 + #12 AWG	20	21 (2")	21 (2")	21 (1")	C20	20	21 (2")	27 (1")	27 (1")
C30	1	#10 AWG + #12 AWG	30	21 (2")	27 (1")	27 (1")	C30	30	27 (1")	27 (1")	27 (1")
C50	1	#8 AWG + #10 AWG	50	27 (1")	27 (1")	35 (1 1/2")	C44	44	27 (1")	35 (1 1/2")	35 (1 1/2")
C65	1	#6 AWG + #8 AWG	65	27 (1")	35 (1 1/2")	35 (1 1/2")	C60	60	35 (1 1/2")	41 (1 1/2")	41 (1 1/2")
C85	1	#4 AWG + #8 AWG	85	35 (1 1/2")	41 (1 1/2")	41 (1 1/2")	C76	76	41 (1 1/2")	53 (2")	53 (2")
C100	1	#3 AWG + #8 AWG	100	35 (1 1/2")	41 (1 1/2")	41 (1 1/2")	C92	92	53 (2")	53 (2")	53 (2")
C115	1	#2 AWG + #8 AWG	115	41 (1 1/2")	41 (1 1/2")	41 (1 1/2")	C104	104	53 (2")	53 (2")	53 (2")
A120	1	#1/0 AWG + #4 AWG	120	53 (2")	53 (2")	53 (2")	A108	108	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")
A135	1	#2/0 AWG + #4 AWG	135	53 (2")	53 (2")	63 (2 1/2")	A120	120	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")
A155	1	#3/0 AWG + #4 AWG	155	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")	A140	140	78 (3")	78 (3")	78 (3")
A180	1	#4/0 AWG + #4 AWG	180	63 (2 1/2")	63 (2 1/2")	78 (3")	A164	164	78 (3")	78 (3")	78 (3")
A205	1	250 KCMIL + #2 AWG	205	63 (2 1/2")	78 (3")	78 (3")	A184	184	78 (3")	78 (3")	91 (3 1/2")
A230	1	300 KCMIL + #2 AWG	230	78 (3")	78 (3")	78 (3")	A208	208	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A250	1	350 KCMIL + #2 AWG	250	78 (3")	78 (3")	91 (3 1/2")	A224	224	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A270	1	400 KCMIL + #2 AWG	270	78 (3")	91 (3 1/2")	91 (3 1/2")	A244	244	103 (4")	103 (4")	103 (4")
A340	1	600 KCMIL + #1 AWG	340	91 (3 1/2")	103 (4")	103 (4")	A308	308	116 (4 1/2")	116 (4 1/2")	116 (4 1/2")
A385	1	750 KCMIL + #1 AWG	385	103 (4")	116 (4 1/2")	116 (4 1/2")	A348	348	129 (5")	129 (5")	129 (5")
A445	1	1000 KCMIL + #1 AWG	445	116 (4 1/2")	129 (5")	129 (5")	A400	400	155 (6")	155 (6")	155 (6")
A240	2	#1/0 AWG + #4 AWG	240	53 (2")	53 (2")	53 (2")	A216	216	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")
A270	2	#2/0 AWG + #4 AWG	270	53 (2")	53 (2")	63 (2 1/2")	A240	240	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")
A360	2	#4/0 AWG + #4 AWG	360	63 (2 1/2")	63 (2 1/2")	78 (3")	A328	328	78 (3")	78 (3")	78 (3")
A410	2	250 KCMIL + #2 AWG	410	63 (2 1/2")	78 (3")	78 (3")	A368	368	78 (3")	78 (3")	91 (3 1/2")
A460	2	300 KCMIL + #2 AWG	460	78 (3")	78 (3")	78 (3")	A416	416	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A500	2	350 KCMIL + #2 AWG	500	78 (3")	78 (3")	91 (3 1/2")	A448	448	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A620	2	500 KCMIL + #1 AWG	620	91 (3 1/2")	91 (3 1/2")	103 (4")	A560	560	103 (4")	103 (4")	116 (4 1/2")
A680	2	600 KCMIL + #1 AWG	680	91 (3 1/2")	103 (4")	103 (4")	A616	616	116 (4 1/2")	116 (4 1/2")	116 (4 1/2")
A770	2	750 KCMIL + #1 AWG	770	103 (4")	116 (4 1/2")	116 (4 1/2")	A696	696	129 (5")	129 (5")	129 (5")
A890	2	1000 KCMIL + #1 AWG	890	116 (4 1/2")	129 (5")	129 (5")	A800	800	155 (6")	155 (6")	155 (6")
A405	3	#2/0 AWG + #4 AWG	405	53 (2")	53 (2")	63 (2 1/2")	A360	360	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")
A465	3	#3/0 AWG + #4 AWG	465	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")	A420	420	78 (3")	78 (3")	78 (3")
A615	3	250 KCMIL + #2 AWG	615	63 (2 1/2")	78 (3")	78 (3")	A552	552	78 (3")	78 (3")	91 (3 1/2")
A690	3	300 KCMIL + #2 AWG	690	78 (3")	78 (3")	78 (3")	A624	624	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A750	3	350 KCMIL + #2 AWG	750	78 (3")	78 (3")	91 (3 1/2")	A672	672	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A810	3	400 KCMIL + #2 AWG	810	78 (3")	91 (3 1/2")	91 (3 1/2")	A732	732	103 (4")	103 (4")	103 (4")
A930	3	500 KCMIL + #1 AWG	930	91 (3 1/2")	91 (3 1/2")	103 (4")	A840	840	103 (4")	103 (4")	116 (4 1/2")
A1020	3	600 KCMIL + #1 AWG	1020	91 (3 1/2")	103 (4")	103 (4")	A924	924	116 (4 1/2")	116 (4 1/2")	116 (4 1/2")
A1155	3	750 KCMIL + #1 AWG	1155	103 (4")	116 (4 1/2")	116 (4 1/2")	A1044	1044	129 (5")	129 (5")	129 (5")
A1335	3	1000 KCMIL + #1 AWG	1335	116 (4 1/2")	129 (5")	129 (5")	A1200	1200	155 (6")	155 (6")	155 (6")
A480	4	#1/0 AWG + #4 AWG	480	53 (2")	53 (2")	63 (2 1/2")	A432	432	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")
A620	4	#3/0 AWG + #4 AWG	620	63 (2 1/2")	63 (2 1/2")	63 (2 1/2")	A560	560	78 (3")	78 (3")	78 (3")
A720	4	#4/0 AWG + #4 AWG	720	63 (2 1/2")	63 (2 1/2")	78 (3")	A656	656	78 (3")	78 (3")	78 (3")
A820	4	250 KCMIL + #2 AWG	820	63 (2 1/2")	78 (3")	78 (3")	A736	736	78 (3")	78 (3")	91 (3 1/2")
A920	4	300 KCMIL + #2 AWG	920	78 (3")	78 (3")	78 (3")	A832	832	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A1000	4	350 KCMIL + #2 AWG	1000	78 (3")	78 (3")	91 (3 1/2")	A896	896	91 (3 1/2")	91 (3 1/2")	91 (3 1/2")
A1080	4	400 KCMIL + #2 AWG	1080	78 (3")	91 (3 1/2")	91 (3 1/2")	A976	976	103 (4")	103 (4")	103 (4")
A1240	4	500 KCMIL + #1 AWG	1240	91 (3 1/2")	91 (3 1/2")	103 (4")	A1120	1120	103 (4")	103 (4")	116 (4 1/2")
A1360	4	600 KCMIL + #1 AWG	1360	91 (3 1/2")	103 (4")	103 (4")	A1232	1232	116 (4 1/2")	116 (4 1/2")	116 (4 1/2")
A1540	4	750 KCMIL + #1 AWG	1540	103 (4")	116 (4 1/2")	116 (4 1/2")	A1392	1392	129 (5")	129 (5")	129 (5")
A1780	4	1000 KCMIL + #1 AWG	1780	116 (4 1/2")	129 (5")	129 (5")	A1600	1600	155 (6")	155 (6")	155 (6")

SCHEDULE REVISION DATE: 2019.05.01

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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NORTH ARROW

SEAL

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

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NORTH ARROW SEAL

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

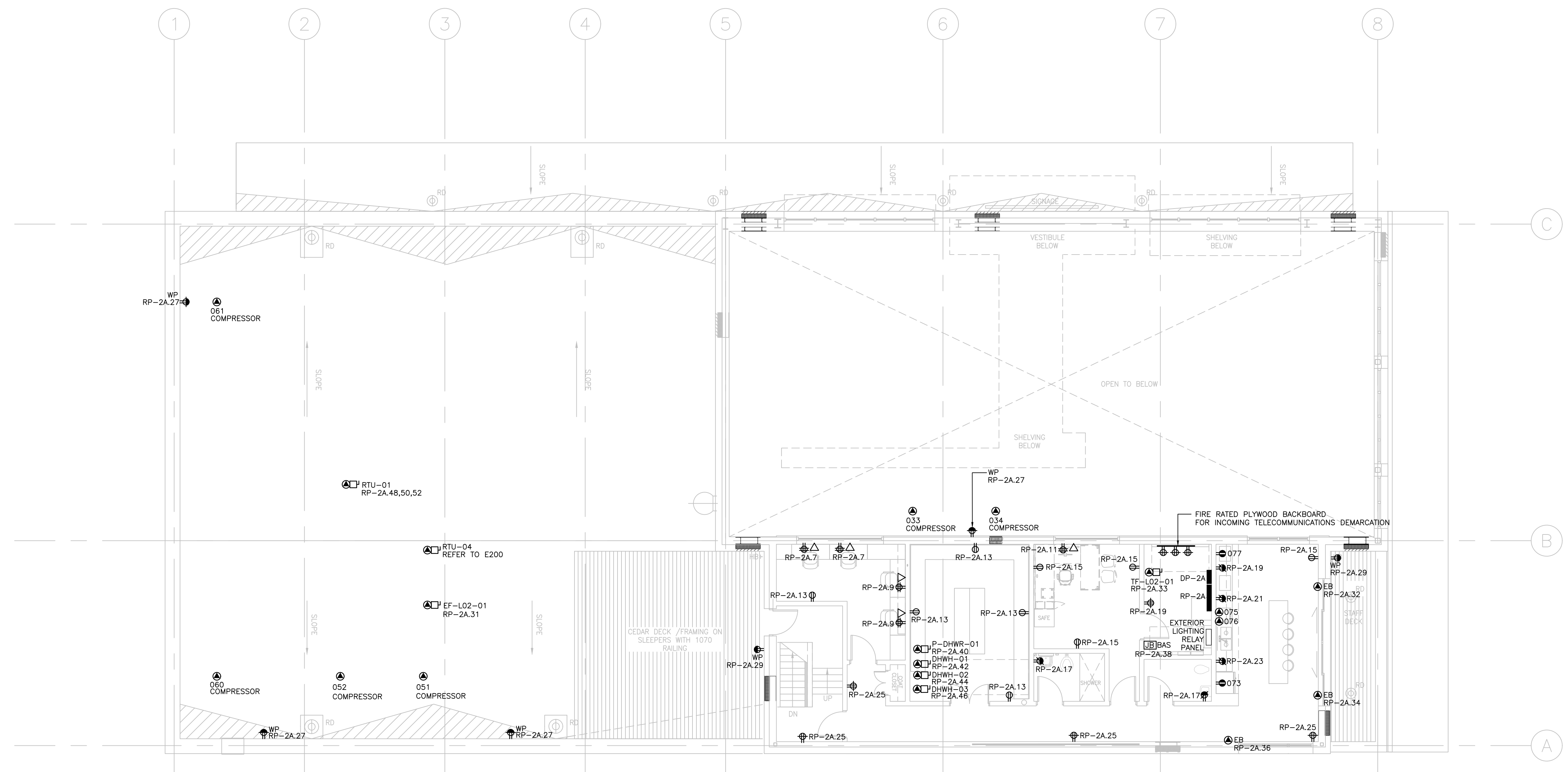
DRAWING TITLE
**SECOND LEVEL - POWER
AND SYSTEMS**

SCALE
1:100

DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
DRAWING NUMBER

E301



EQUIPMENT SCHEDULE														
LEVEL 2														
ITEM NO.	QTY	LOCATION	DESCRIPTION	PANEL	CIRCUIT NUMBER	CONNECTION TYPE	VOLTAGE (V)	CYCLE (HZ)	PHASE	AMPS (A)	HP	CONNECTED LOAD (KW)	SHOP (A)	MCA (A)
033	1	113 - WALKIN COOLER	COOLER	COMPRESSOR	RP-2A		208	60						
034	1	114 - WALKIN FREEZER	FREEZER	COMPRESSOR	RP-2A		208	60						
051	1	117 - WALKIN PRODUCE	COOLER	COMPRESSOR	RP-2A		208	60		1.5		20		
052	1	118 - MEAT COOLER	COOLER	COMPRESSOR	RP-2A		208	60		1.5		20		
060	1	120 - FREEZER	FREEZER	COMPRESSOR	RP-2A		208	60						
061	1	121 - WALKIN DAIRY	COOLER	COMPRESSOR	RP-2A		208	60						
073	1	202 - STAFF LOUNGE	RESIDENTIAL FRIDGE		RP-2A	1	NEMA 5-15K	120	60	1			15 OR 20	
075	1	203 - STAFF LOUNGE	STOVE - STANDARD ELECTRIC RANGE/OVEN		RP-2A	59&1.63	DC	208	60	3			50	
076	1	203 - STAFF LOUNGE	STOVE - HOOD		RP-2A	65	DC	120	60	1			15	
077	1	204 - STAFF LOUNGE	MICROWAVE		RP-2A	3	NEMA 5-15K	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

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.17	
2	ISSUED FOR TENDER	2021.08.25	
3			
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NORTH ARROW SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
BURLEIGH STREET, APSLEY

DRAWING TITLE

ROOF - POWER AND
SYSTEMS

SCALE

1:100

DATE

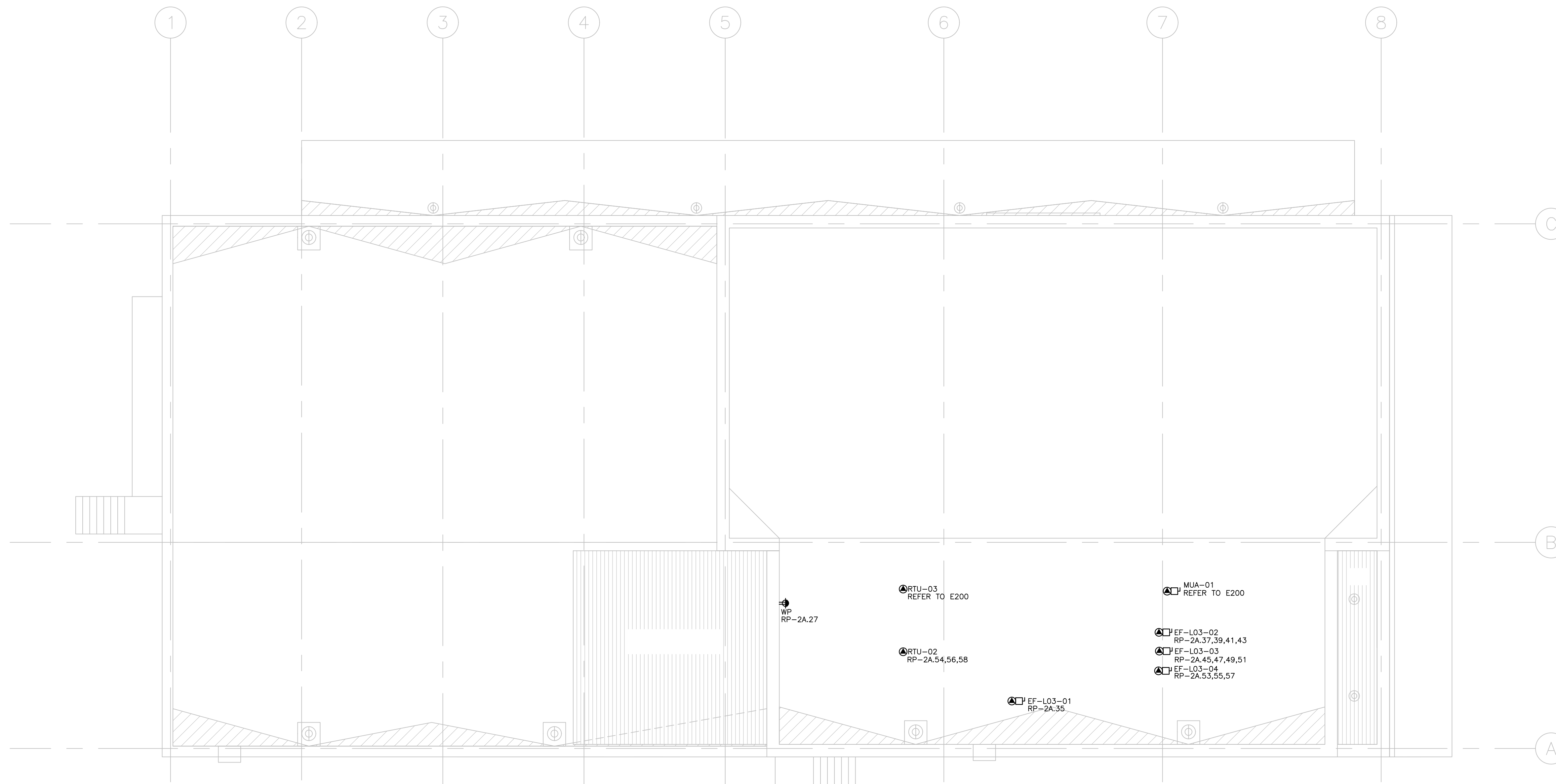
JUNE 16, 2021

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

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.17	
2	ISSUED FOR TENDER	2021.08.27	
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NORTH ARROW

SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE
 BURLINGHAM STREET, APSLEY

DRAWING TITLE

GROUND LEVEL - LIGHTING

SCALE

1:100

DATE

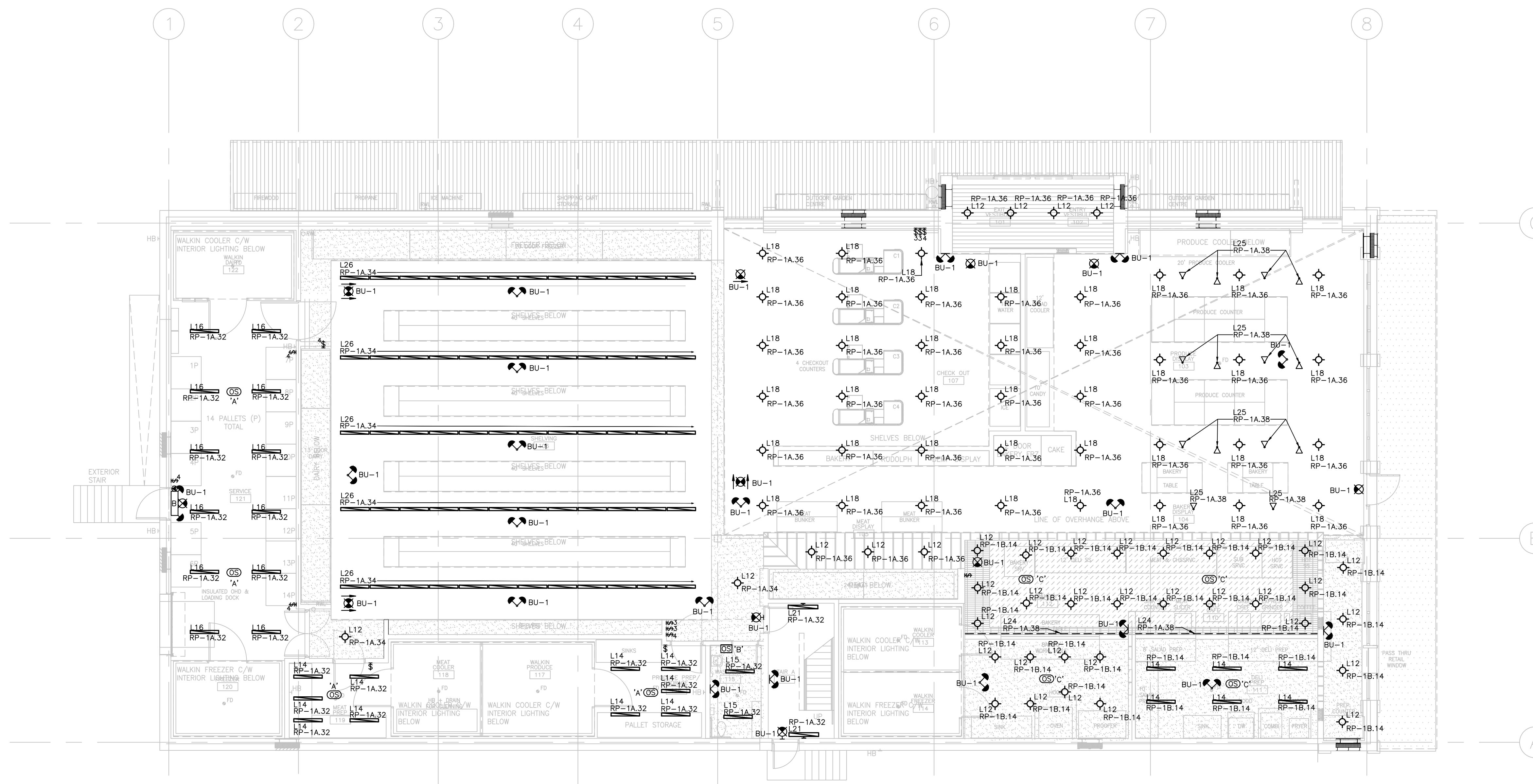
JUNE 16, 2021

PROJECT NUMBER

21376.000.e001

DRAWING NUMBER

E400



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	
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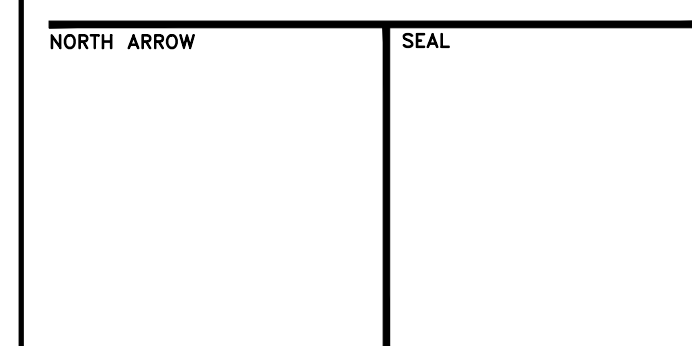


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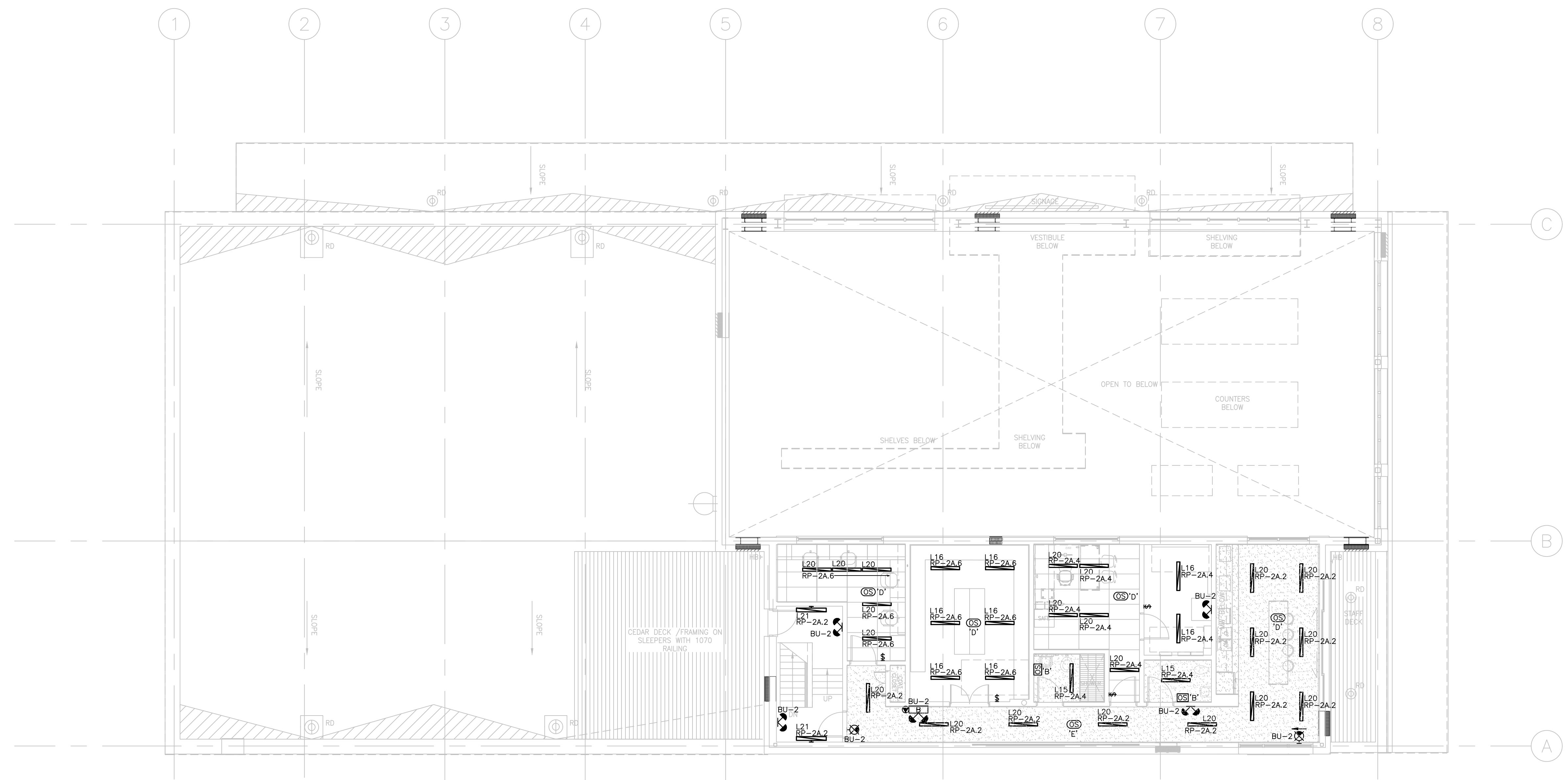
PROJECT TITLE
**NEW SAYERS FOOD STORE
 BURLEIGH STREET, APSLEY**

DRAWING TITLE
SECOND LEVEL - LIGHTING

SCALE
 1:100
 DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
 DRAWING NUMBER

E401



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	
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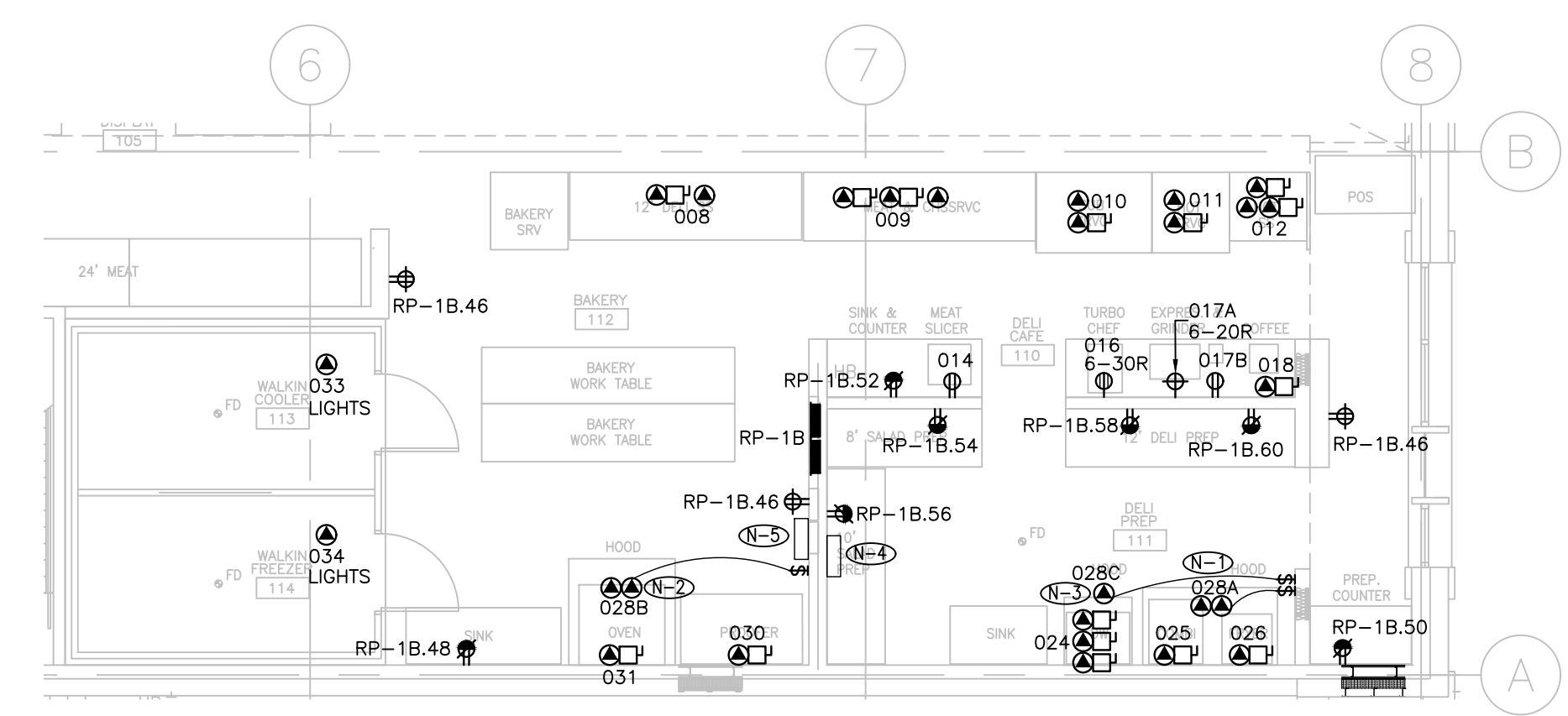
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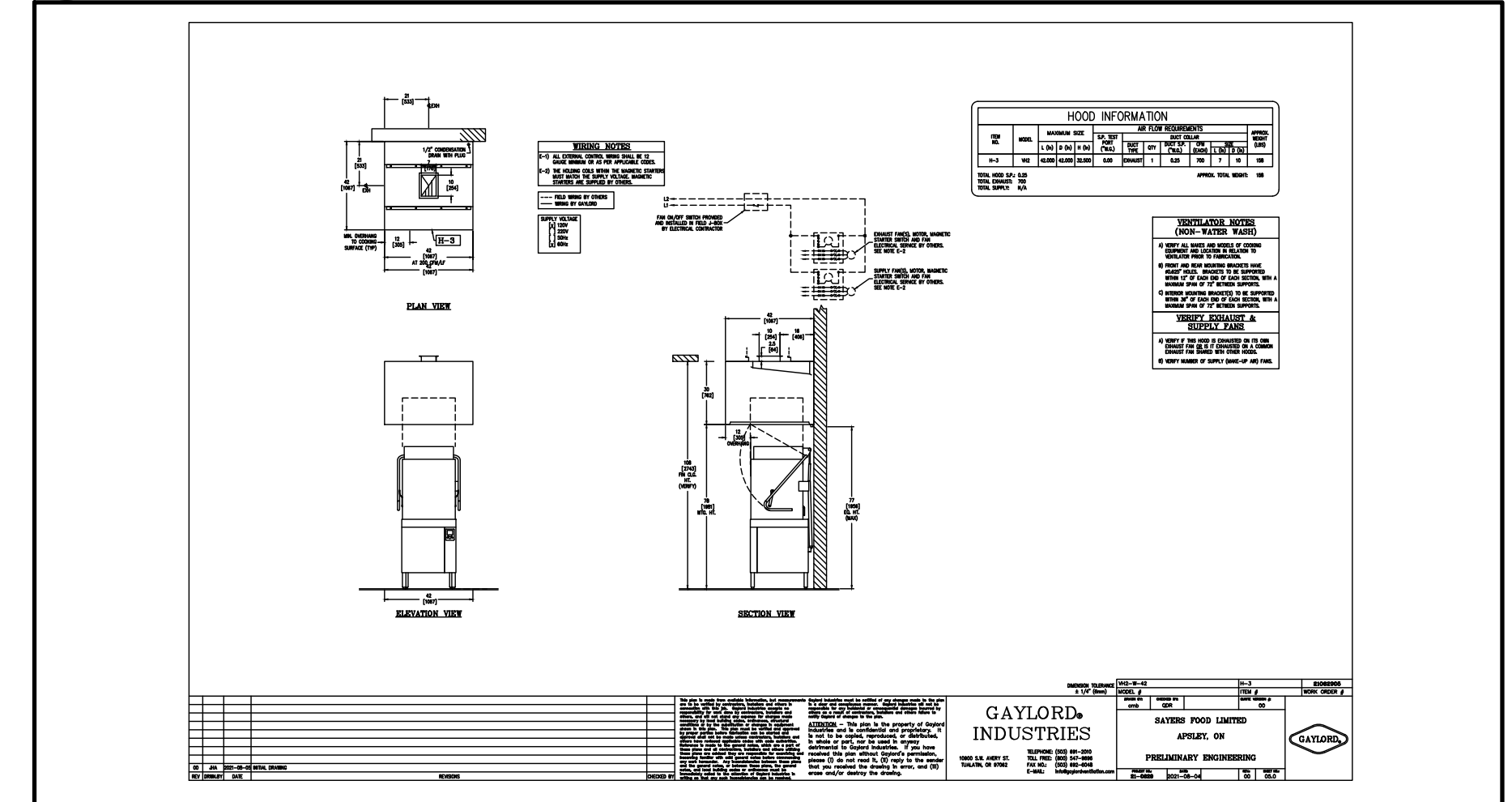
Smith + Andersen
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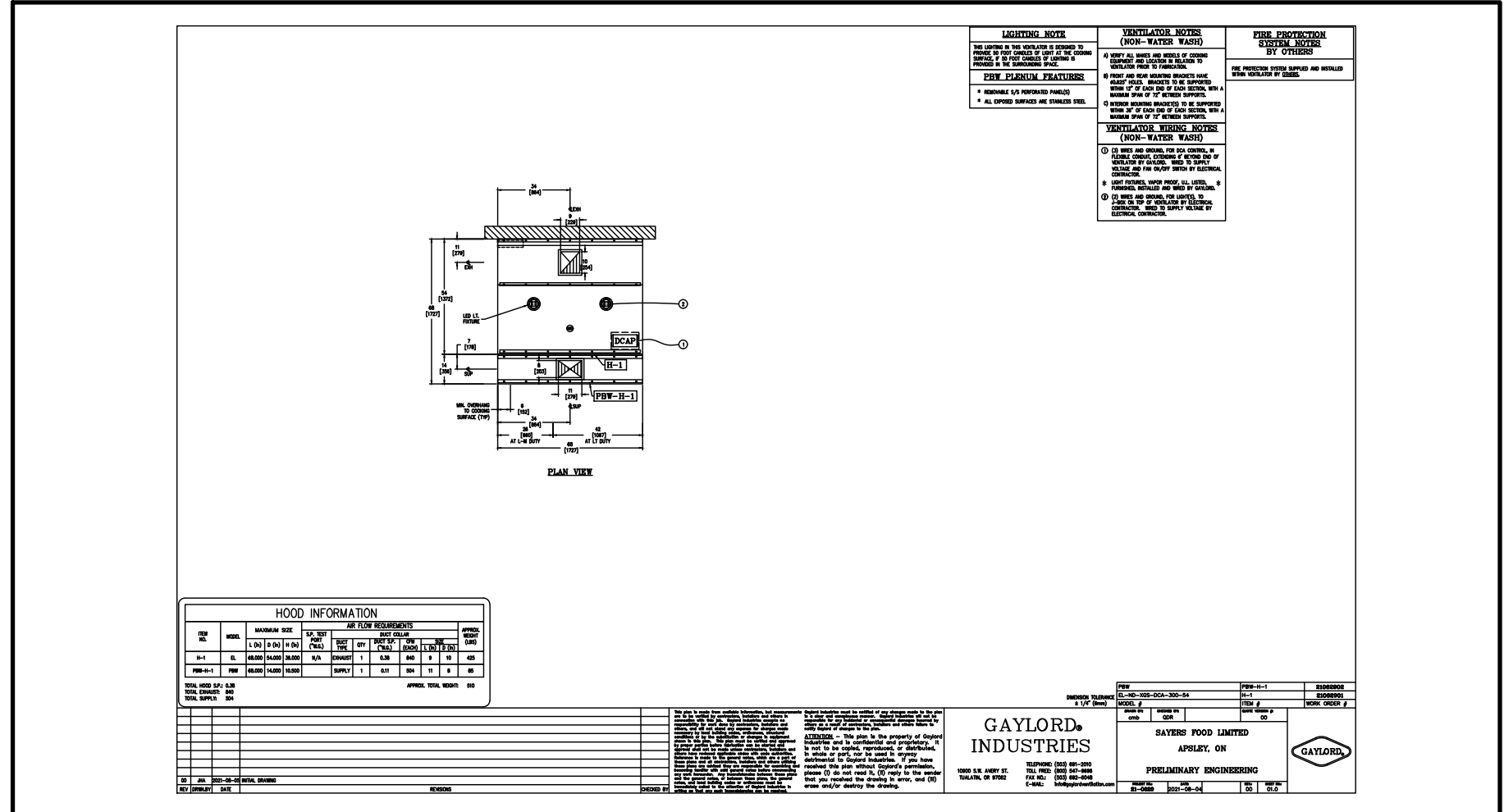
- DRAWING NOTES:**
- 1 REFER TO E500/2 FOR COMBI+FRYER EXHAUST HOOD DETAILS. ELECTRICAL CONTRACTOR TO CONNECT DCA CONTROL TO POWER SUPPLY AND FAN ON/OFF SWITCH, PROVIDE WIRES AND GROUND FOR LIGHT(S) TO JUNCTION BOX ON TOP OF VENTILATOR, CONNECT JUNCTION BOX TO POWER SUPPLY, AS INDICATED IN E500/2.
 - 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).

EQUIPMENT SCHEDULE												
LEVEL 1 - DELI & BAKERY												
ITEM NO.	QTY	LOCATION	DESCRIPTION	PANEL	CIRCUIT NUMBER	CONNECTION TYPE	VOLTAGE (V)	CYCLE (HZ)	PHASE	AMPS (A)	HP	ELECTRICAL REMARKS
008	1	110-DELI CAFE	12' DELI SELF SERVE	RP-1B	1	DC	120	60	1	0.57		
			LIGHTS	RP-1B	2	DC	120	60	1	1.75		
009	1	110-DELI CAFE	MEAT & CHEESE	RP-1B	3	DC	120	60	1	1.2	117.6	15 1.23
			LIGHTS	RP-1B	2	DC	120	60	1	1.5		
			SCALES	RP-1B	5	DC	120	60	1			
010	1	110-DELI CAFE	SUB SERVE	RP-1B	7	DC	120	60	1	0.48	42	15 0.51
			LIGHTS	RP-1B	2	DC	120	60	1	0.36		
011	1	110-DELI CAFE	HOT SRVC	RP-1B	9	DC	120	60	1	9.49		1127
			LIGHTS	RP-1B	2	DC	120	60	1	0.24		
012	1	110-DELI CAFE	HOT SS	RP-1B	2	DC	120	60	1	0.2		1291.6
			LIGHTS	RP-1B	2	DC	120	60	1	0.2		
			SCALES	RP-1B	13	DC	120	60	1			
014	2	110-DELI CAFE	MEAT SLICER	RP-1B	15	NEMA 5-1SR	120	60	1	5.6	1/2	672
												ONE (1) MEAT SLICER WILL BE MOBILE
016	1	110-DELI CAFE	TURBO CHEF	RP-1B	17,19	NEMA 6-3OR	208	60	1		5990	30
017A	1	110-DELI CAFE	ESPRESSO MACHINE	RP-1B	21,23	NEMA 6-2OR	208	60	1	16		3350 20
017B	1	110-DELI CAFE	COFFEE GRINDER	RP-1B	25	NEMA 5-1SR	120	60	1	5		575
018	1	110-DELI CAFE	COFFEE MAKER	RP-1B	27	DC	120	60	1	12.5		3475
024	1	111-DELI PREP.	DISHWASHER	RP-1B	29,31,33	DC	208	60	3	26.9		30 30
			ES - WASH PUMP MOTOR & PUMP HEATER									
			ES - ELECTRIC BOOSTER & CONTROLS									
			ES - DETERGENT & RINSE AGENT FEEDERS									
025	1	111-DELI PREP.	COMBI	RP-1B	47,49,51	DC	208	60	3	53.7		60 60
026	1	111-DELI PREP.	FRYER	RP-1B	53	DC	120	60	1	6	1/3	18000 60
028A	1	111-DELI PREP.	EXHAUST HOOD (COMBI & FRYER)	RP-1B	4	DC	120	60	1	2		
			LIGHTS									
			DCA CONTROL									REFER TO E500
			FIRE SUPPRESSION									REFER TO E500
028B	1	111-DELI PREP.	EXHAUST HOOD (OVEN)	RP-1B	6	DC	120	60	1	2		
			LIGHTS									
			DCA CONTROL									REFER TO E500
			FIRE SUPPRESSION									REFER TO E500
028C	1	111-DELI PREP.	EXHAUST HOOD (DISHWASHER)	RP-1B								REFER TO E500
			FAN CONTROL									
030	1	112-BAKERY	PROOFER	RP-1B	55,57,59	DC	208	60	3	21	4400	
031	1	112-BAKERY	OVEN	SWIBD-1A	REFER TO E500	DC	208	60	1	130	27000	
033	1	113-WALKIN COOLER	COOLER	RP-1B	61	DC	120	60	1			15
034	1	114-WALKIN FREEZER	FREEZER	RP-1B	63	DC	208	60	1			15
			LIGHTS	RP-1B	10	DC	120	60	1			15

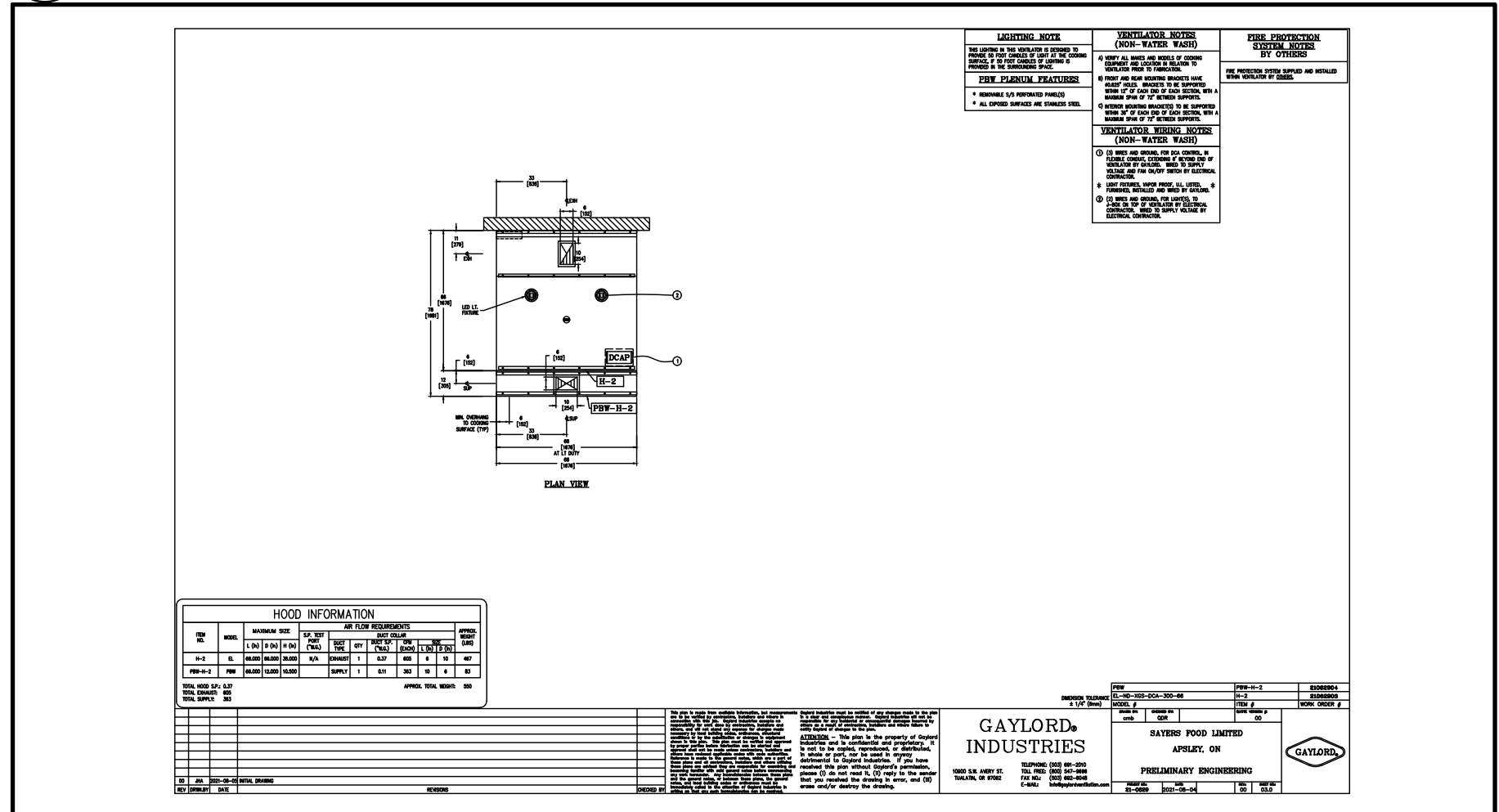
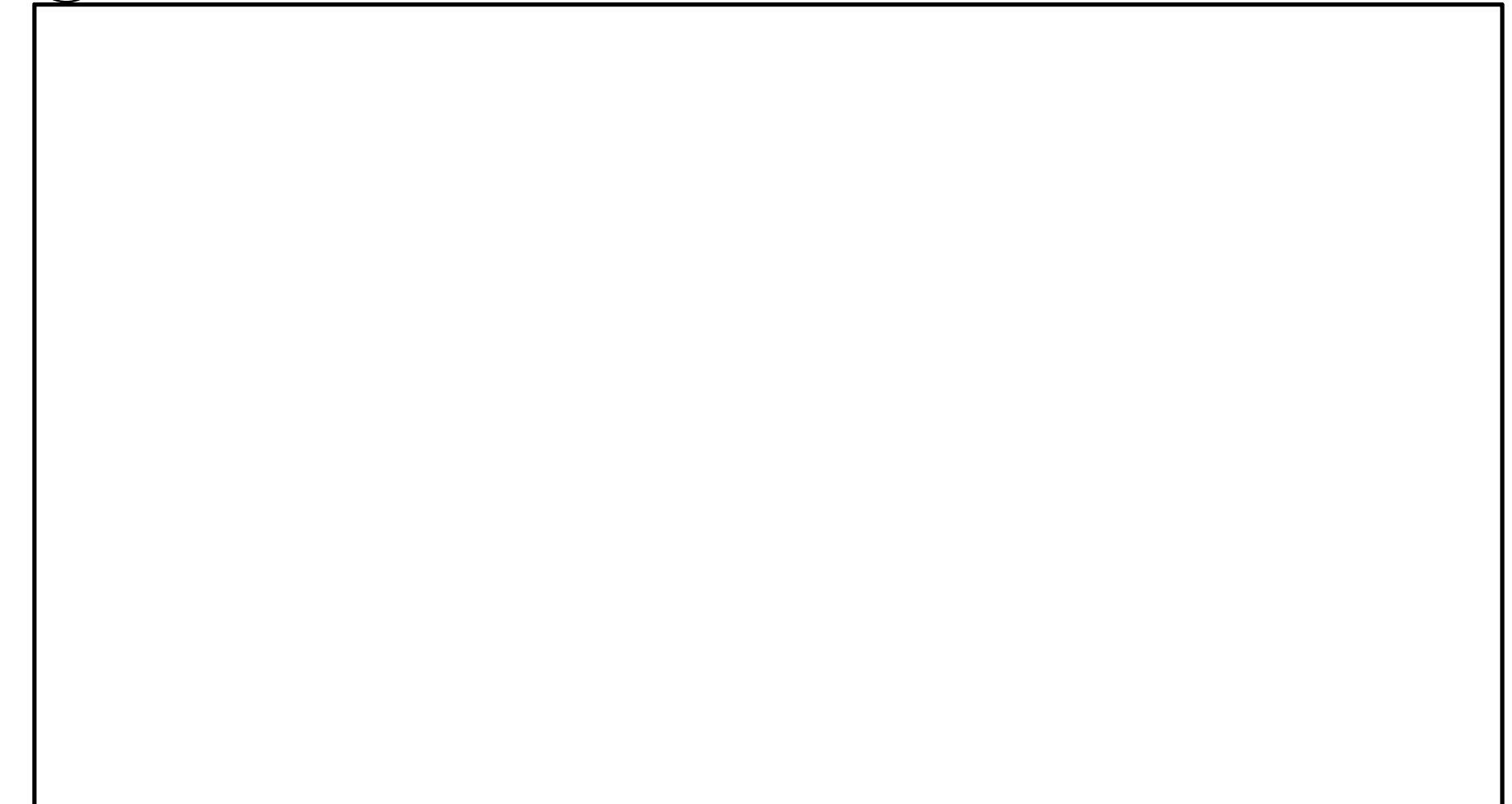
1 BAKERY & DELI CAFE/PREP
E500



4 DISHWASHER EXHAUST HOOD
E500



2 COMBI+FRYER EXHAUST HOOD
E500



3 OVEN EXHAUST HOOD
E500

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NORTH ARROW SEAL

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

DRAWING TITLE
ENLARGED PLANS

SCALE
 1:100
 DATE
JUNE 16, 2021

PROJECT NUMBER
21376.000.e001
 DRAWING NUMBER

E500