

FIRM NAME: WORKSHOP Architecture 6 Sousa Mendes St Toronto, ON M6P 0A8 tel. 416-901-8055		LOCATION: 85 Sunset Blvd, Cambridge, ON, N1S 1A9		OBC REFERENCE References are to Division B unless noted [A] for Division A or [C] for Division C.
NAME OF PROJECT: Blair Road Public School Parking Lot Expansion		Project Area: 2380 m²		
ONTARIO'S 2012 BUILDING CODE DATA MATRIX - PART 11				
11.00	Building Code Version: O. Reg. 332/12			
11.01	Project Type:	☐ Addition ☐ Change of use	☐ Addition and reno. ☐ Renovation	☒ Exterior work
11.02	Major Occupany Classification:	Occupancy: Group A, Div. 2	Use: School	31.2.1(f), and 11.2.1
11.03	Superimposed Major Classification:	☒ No ☐ Yes	Description:	11.2 and 3.2.2.5, tp 3.2.2.8
11.04	Building Area (m²)	Existing:	New:	Total: NO CHANGE
11.05	Gross Area (m²)	Existing:	New:	Total: NO CHANGE
11.06	Mezzanine Area (m²)	Existing:	New:	Total: NO CHANGE
11.07	Building Height	Storeys above grade: 1 Storeys below grade: 0	NO CHANGE	(m) Above grade: 7.00m
11.08	Building Size	☐ Small ☐ Medium ☒ Large	☒ Large ☐ > Large	T.11.2.11.B-N.
11.09	Number of Streets	streets (s): 1 street		
11.10	Existing Building Classification:	Change in Major Occupancy: ☐ Yes ☒ Not Applicable (no change of major occupancy)	Contruction Index: NO CHANGE Hazard Index: ☐ Low Importance Category: ☐ High	11.2.11. T11.2.11.A T11.2.11.B to N

Zoning Summary	Existing	Required/Permitted	Proposed
Use	Elementary School	Elementary School	Unchanged
Parking Spaces	32	12 (for 12 classrooms, not incl. portables)	44
Landscaped Open Area	73%	30% min	70%

① Context Plan
1 : 1000



② Proposed Site Plan
1 : 500

REMOVAL OR INJURING OF TREES NOT INCLUDED IN THIS PERMIT APPLICATION. IF TREES ARE PROPOSED TO BE REMOVED OR OTHERWISE INJURED (PRUNING, ROOT DAMAGE, ETC) , PLEASE VISIT OUR WEBSITE AT WWW.CAMBRIDGE.CA/FORESTRY TO SEE IF A TREE PERMIT IS REQUIRED. ANY WORK WITHIN AN AREA OCCUPIED BY THE DRIPLINE OF A TREE + 1m IS CONSIDERED AN INJURY AND MAY NEED PERMISSION.

THIS PERMIT IS FOR RETAINING WALLS AND STAIRS

CITY OF CAMBRIDGE BUILDING DIVISION

THESE PLANS HAVE BEEN EXAMINED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE REQUIREMENTS. A BUILDING PERMIT IS IN ORDER TO ISSUE SUBJECT TO ANY CHANGES NOTED UNDER THE CONDITION THAT THE BUILDING WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CODE

AM

2025-06-18

THE ARCHITECT OR PROFESSIONAL ENGINEER OR BOTH SHALL BE RESPONSIBLE FOR THE FIELD REVIEW OF THIS BUILDING DURING THE COURSE OF CONSTRUCTION TO ENSURE CONFORMANCE TO THE DESIGN

NEITHER THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS

PLEASE CALL THE INSPECTOR BEFORE COMMENCEMENT OF CONSTRUCTION

General Notes:

- Drawings are to be read in conjunction with project specifications.
- Make good all surfaces/areas/finishes damaged during demolition. Prepare existing surfaces to accept new finishes as scheduled/specified.
- All dimensions are to face of partition unless noted otherwise.
- Angles are 90 degrees unless noted otherwise.
- Site access, including working hours, for material delivery, work forces and for refuse removal is to be coordinated with the Owner, as per terms outline in Division 01 General Requirements.
- General Contractor is to co-ordinate and co-operate with trades retained directly by Owner as applicable.
- General Contractor shall be responsible for scheduling the trades identified in item 6, where such work affects the progress of the job.
- Any temporary shoring required, including excavation support systems, shall be coordinated and provided by General Contractor within bid price. Refer also to Structural drawings, details and specification for additional requirements.
- Building Permit shall be obtained by Owner. All other permits/fees (including but not limited to ESA, Municipal road closure permits, service connection fees, sign permits, etc) to be obtained by the Contractor as necessary to complete the Work. All costs for these permits (Municipal Inspections, traffic direction costs, etc) shall be included in bid price and provided at no additional cost to the Owner.
- Reinstatement of any adjacent paving/sidewalks/roadways/asphalt within the Municipal Right of Way or adjacent properties disturbed during construction to be carried out according to applicable Municipal Standards. Refer also to Landscape/Civil drawings.

Sheet List	
Sheet Number	Sheet Name
ARCHITECTURAL	
A0.0	OBC Matrix, General Notes, & Context Plan
A1.0	Demolition & Proposed Plans
A2.0	Exterior Elevations & Sections
A3.0	Stair and Guardrail Details
STRUCTURAL	
S0.00	General Notes & Key Plan
S1.00	Foundation Plans & Sections
CIVIL	
C0.00	General Notes
C0.01	Typical Details
C1.00	Site Grading Plan
C2.00	Site Servicing Plan
C3.00	Sediment & Erosion Control Plan
CULTEC 1	Cover Sheet
CULTEC 2	System Layout Sheet
CULTEC 3	System Calculation Sheet
CULTEC 4	System Overlay Sheet
CULTEC 5	150XLHD Detail Sheet
LANDSCAPE	
TPP-1	Tree Preservation Plan
TPP-2	Tree Preservation Notes and Details

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Rev	Description	Date
1	Issued for SD Report	10 Mar 2025
3	Permit/Tender	17 April 2025

Site Plan Legend

- Extent of new asphalt
- Extent of new concrete
- Extent of grass/sod
- Fire route
- Entrance
- Chain link fence
- Catch basin
- Tree (existing)
- Crossway painting



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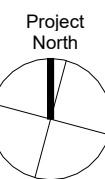
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Blair Road Public School
Parking Lot Expansion

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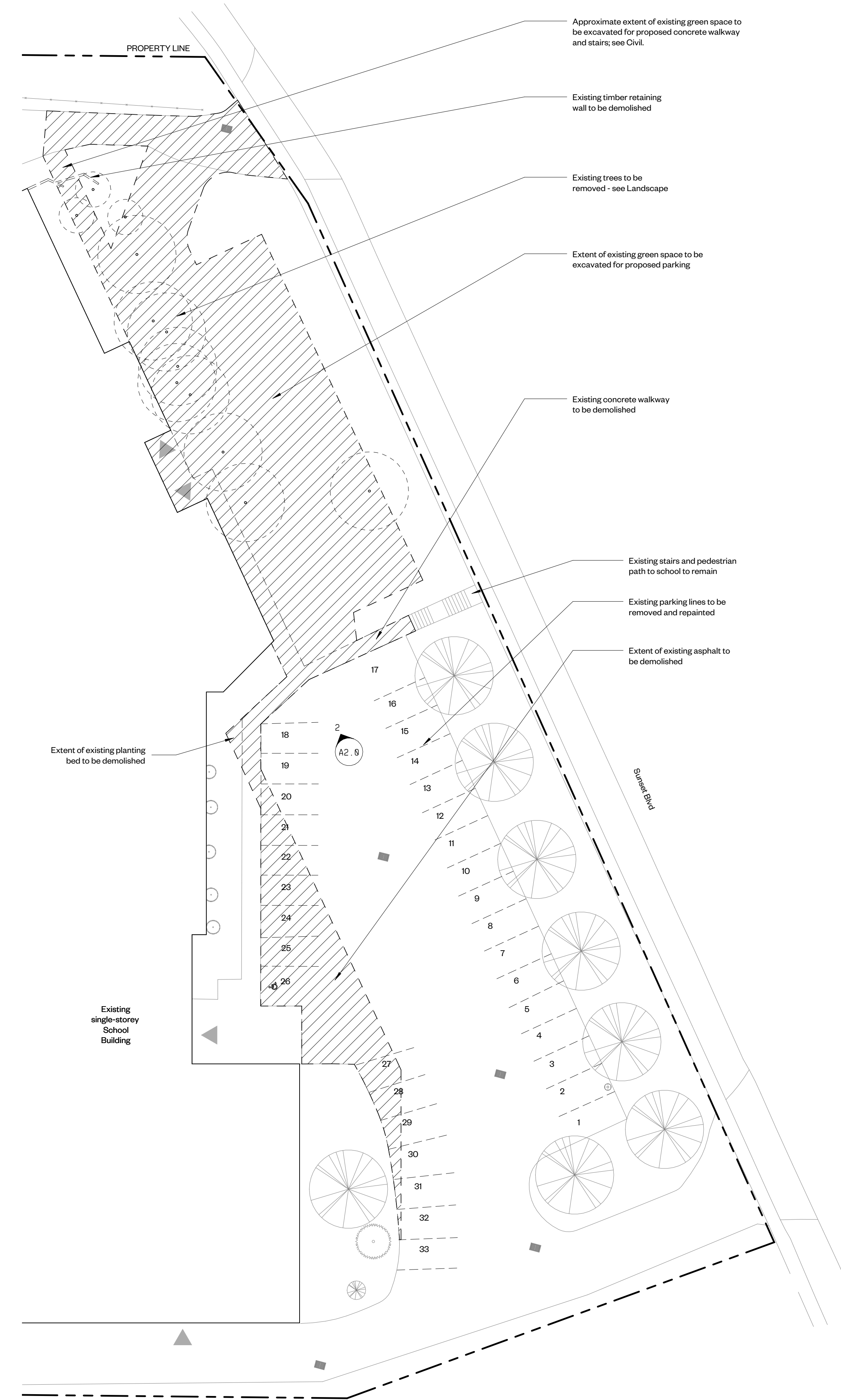
PROJECT CODE :	SCALE :
2430	As indicated
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OBC Matrix, General Notes, &
Context Plan

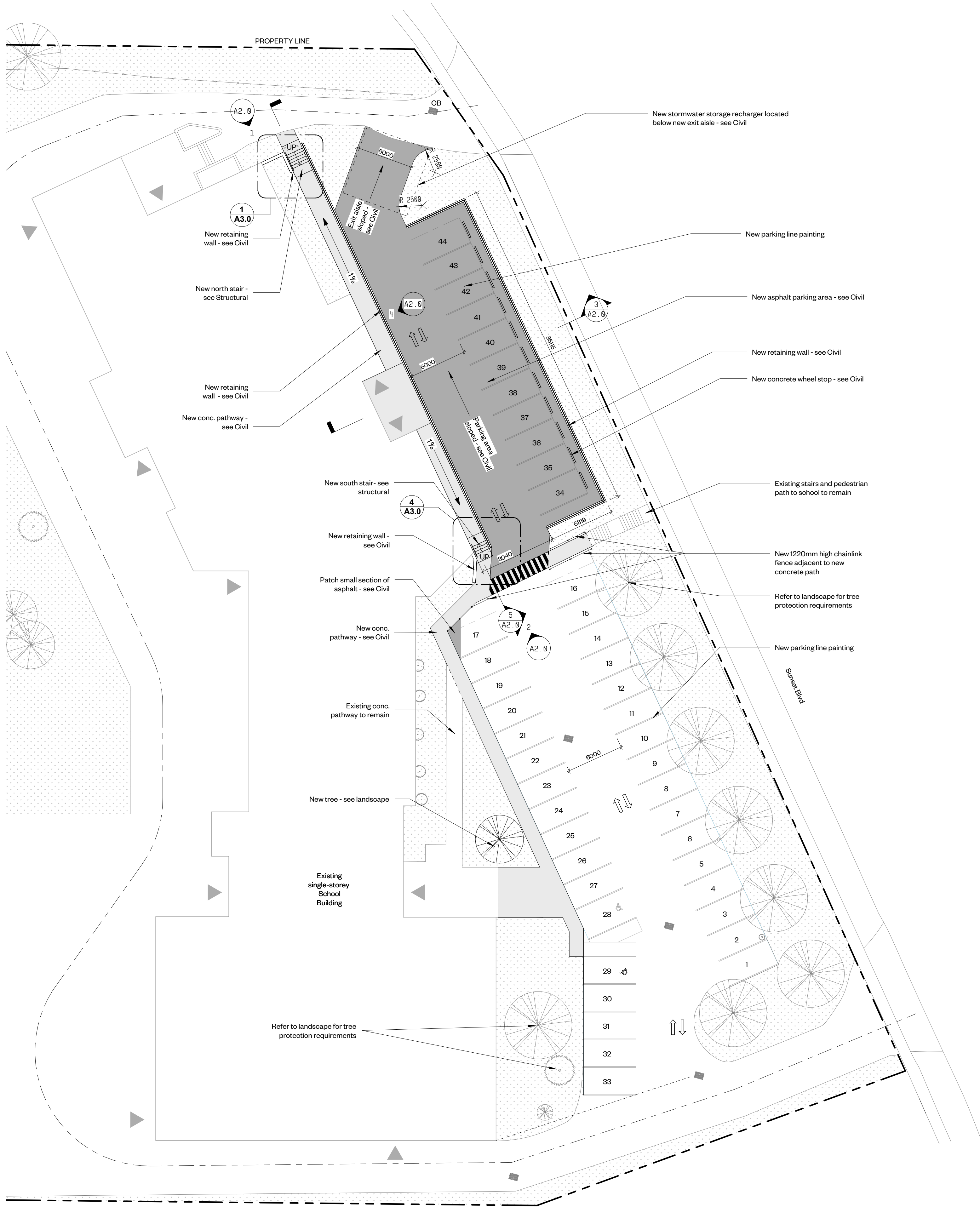


drawing number

A0.0



① Site Plan Partial - Demolition
1 : 250



② Site Plan - Proposed
1 : 250

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Demolition Legend

- Extent of surfaces to be demolished
- Tree to be demolished



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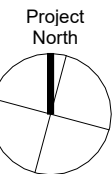
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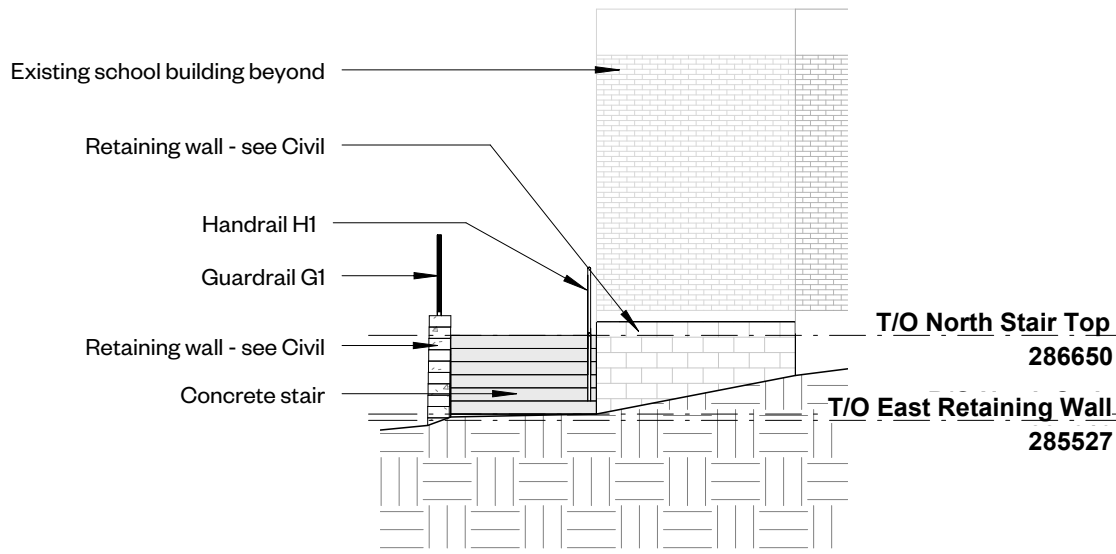
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Demolition & Proposed Plans

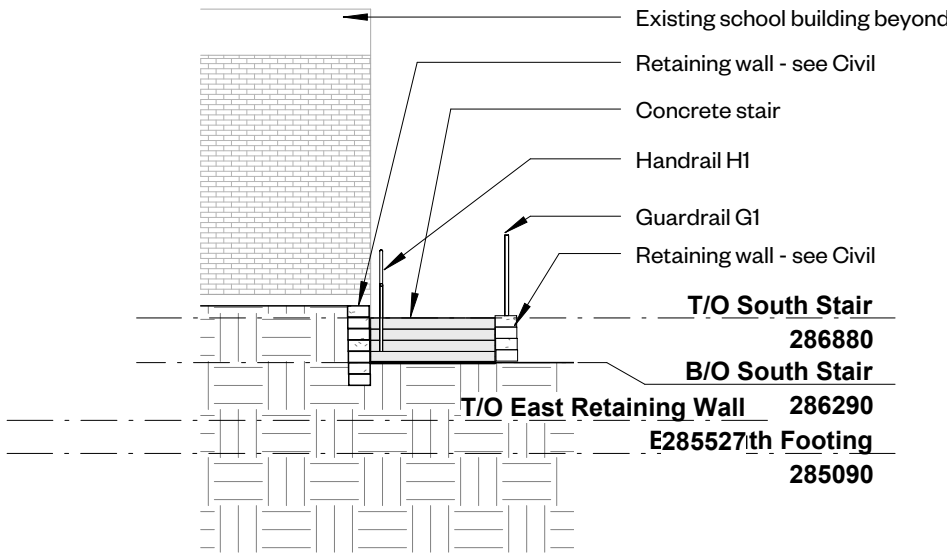


drawing number

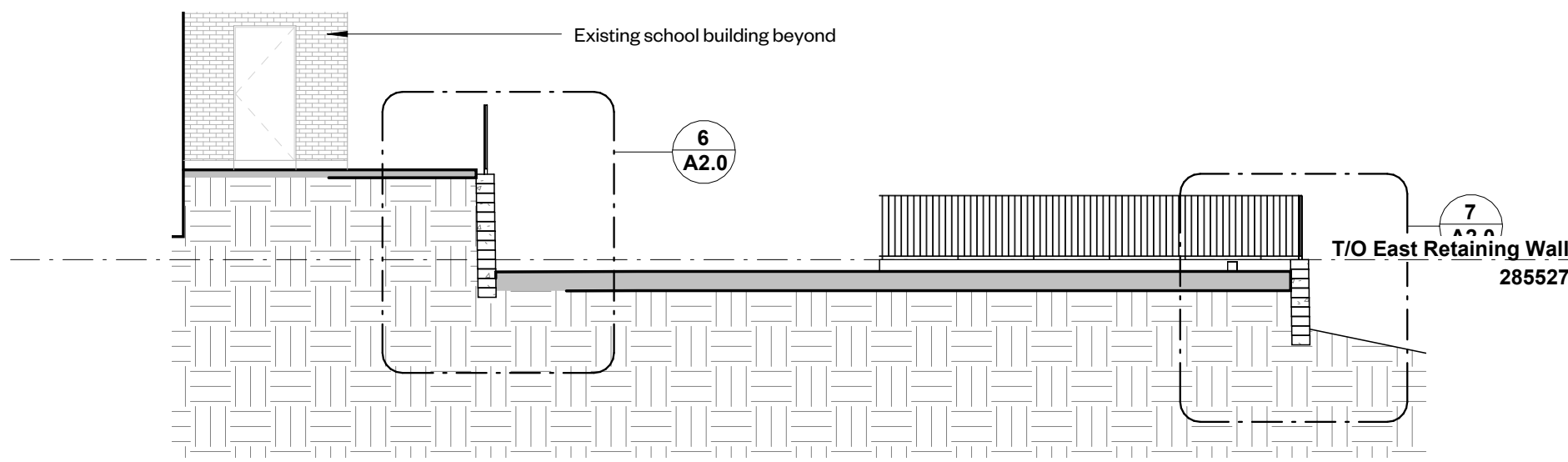
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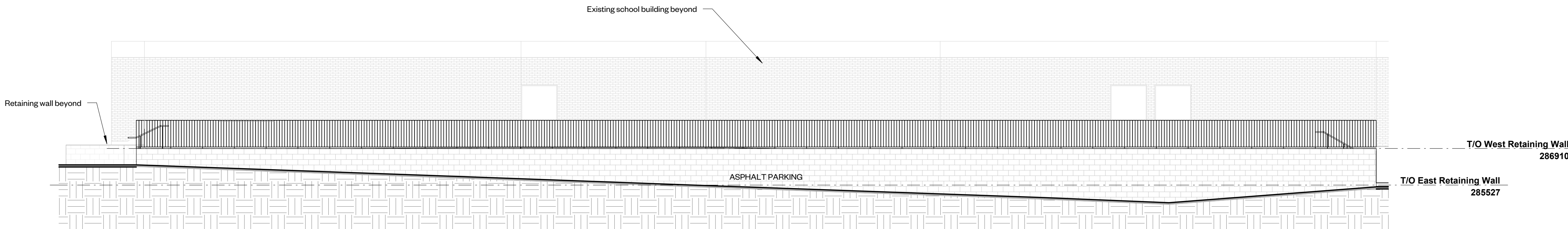
① Exterior Elevation - North Stair
1 : 100



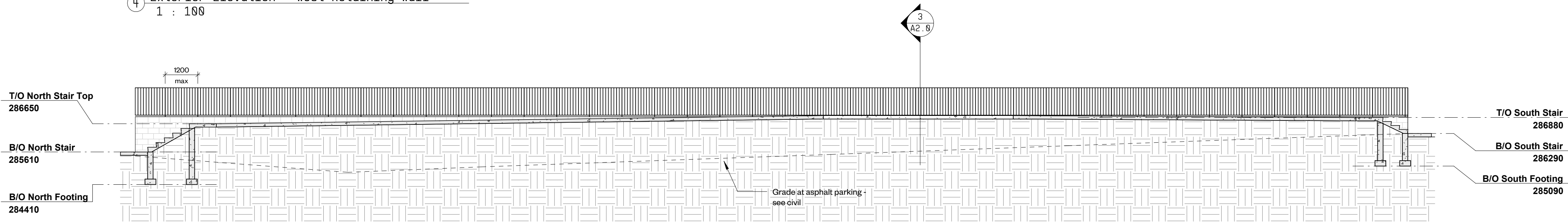
② Exterior Elevation - South Stair
1 : 100



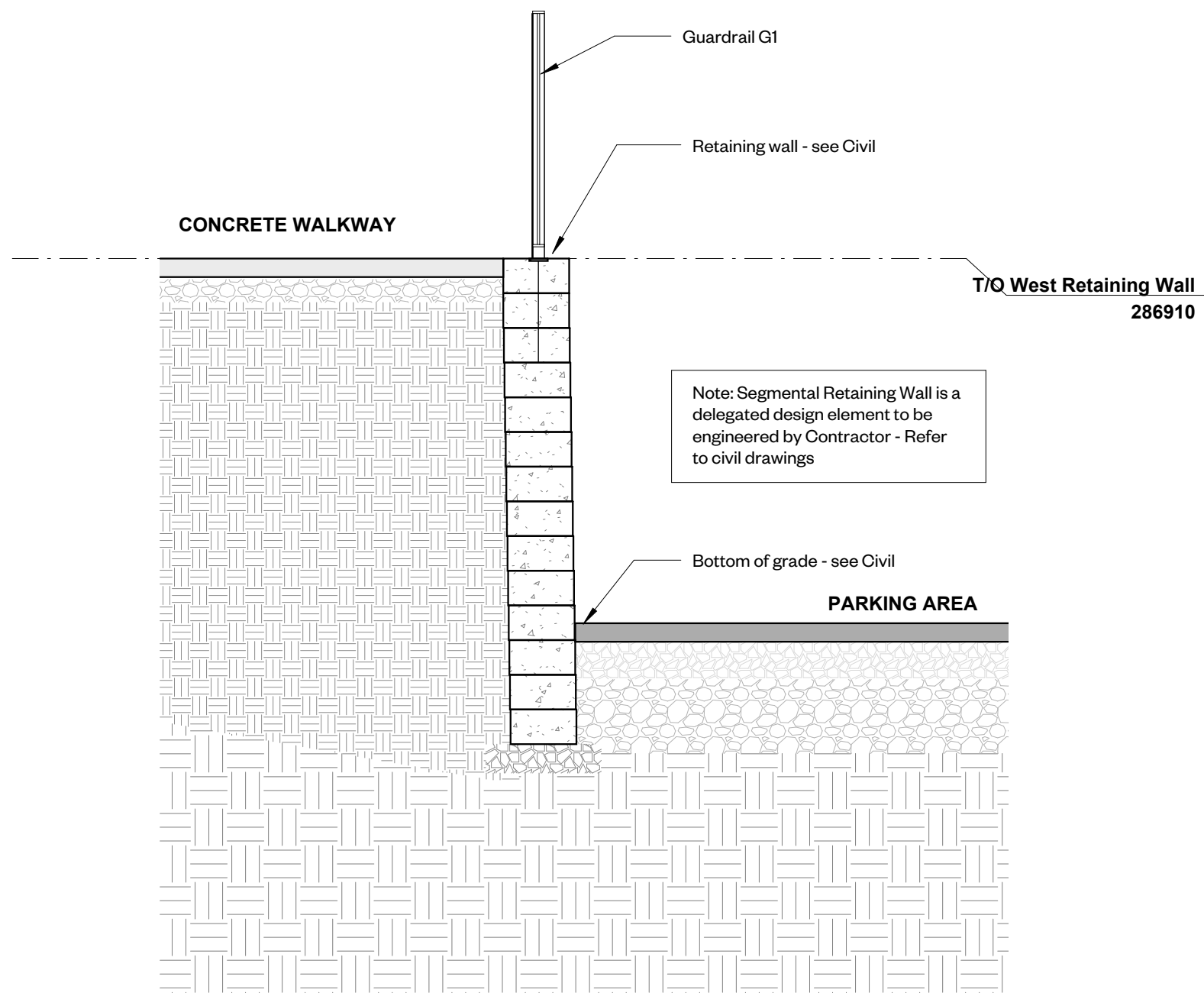
③ Site Section - East and West Retaining Walls
1 : 100



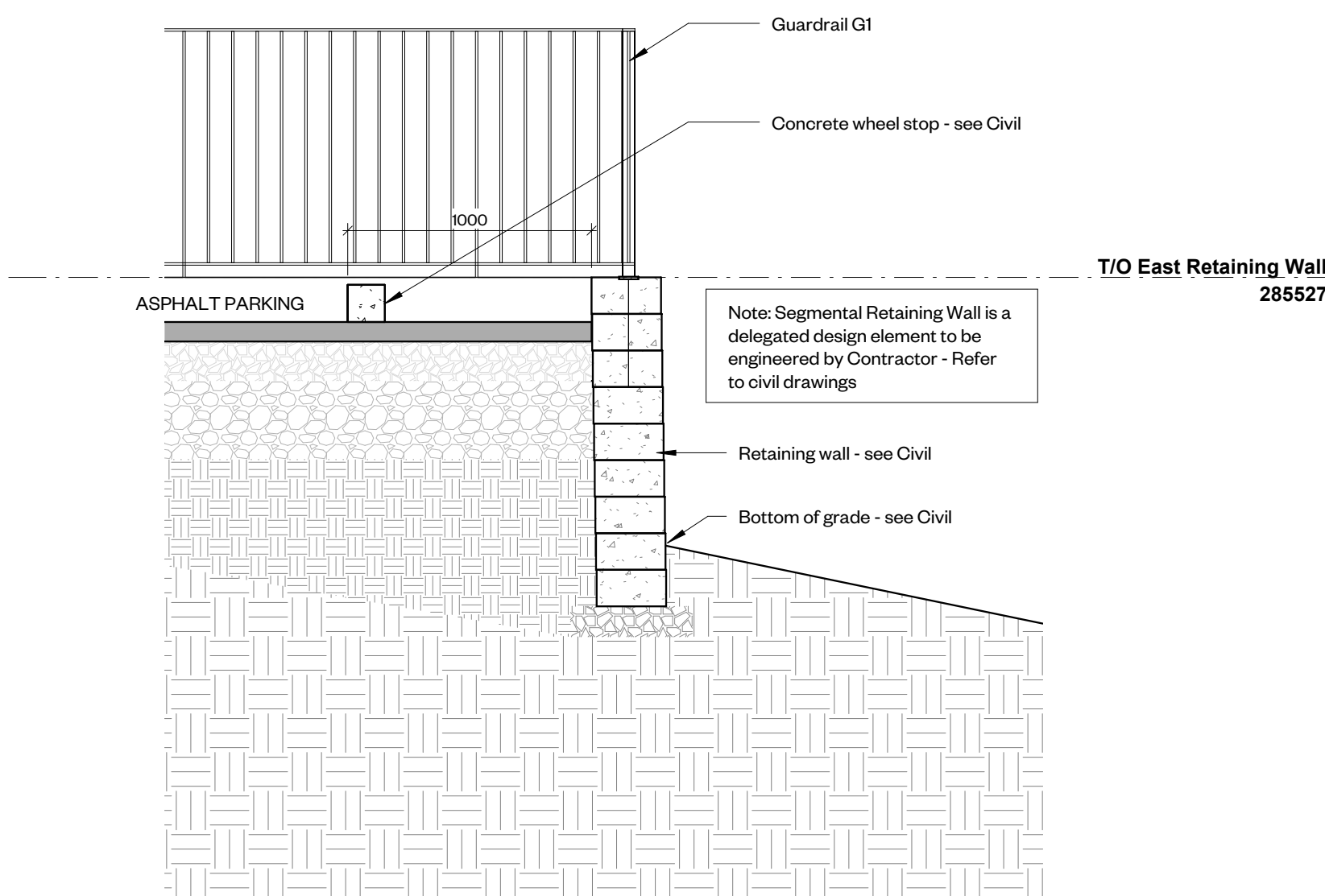
④ Exterior Elevation - West Retaining Wall
1 : 100



⑤ Site Section - Guardrail at Concrete Walkway and Stairs
1 : 100



⑥ Section Detail - West Retaining Wall
1 : 25



⑦ Section Detail - East Retaining Wall
1 : 25

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Blair Road Public School Parking Lot Expansion

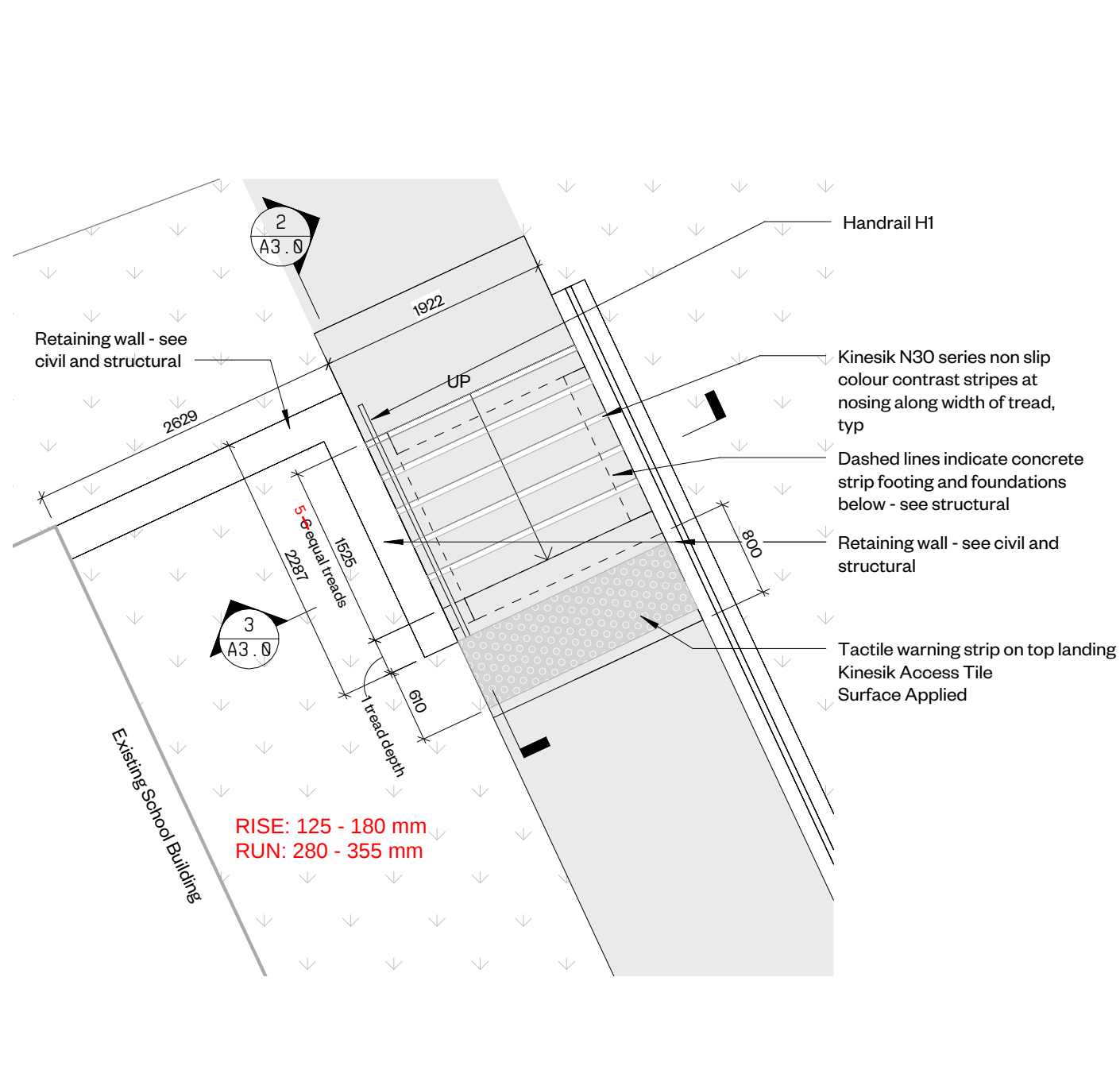
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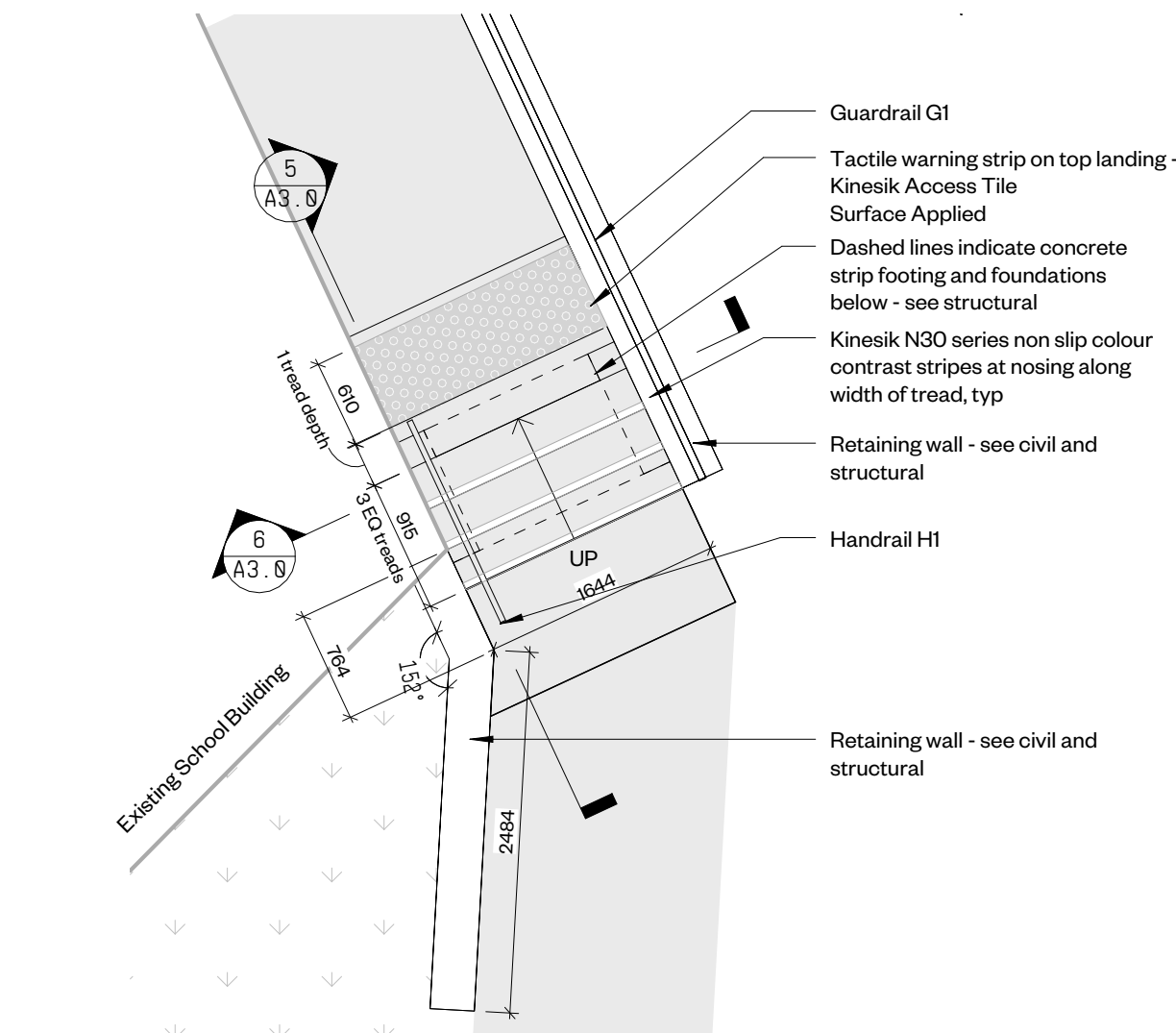
Exterior Elevations & Sections

drawing number

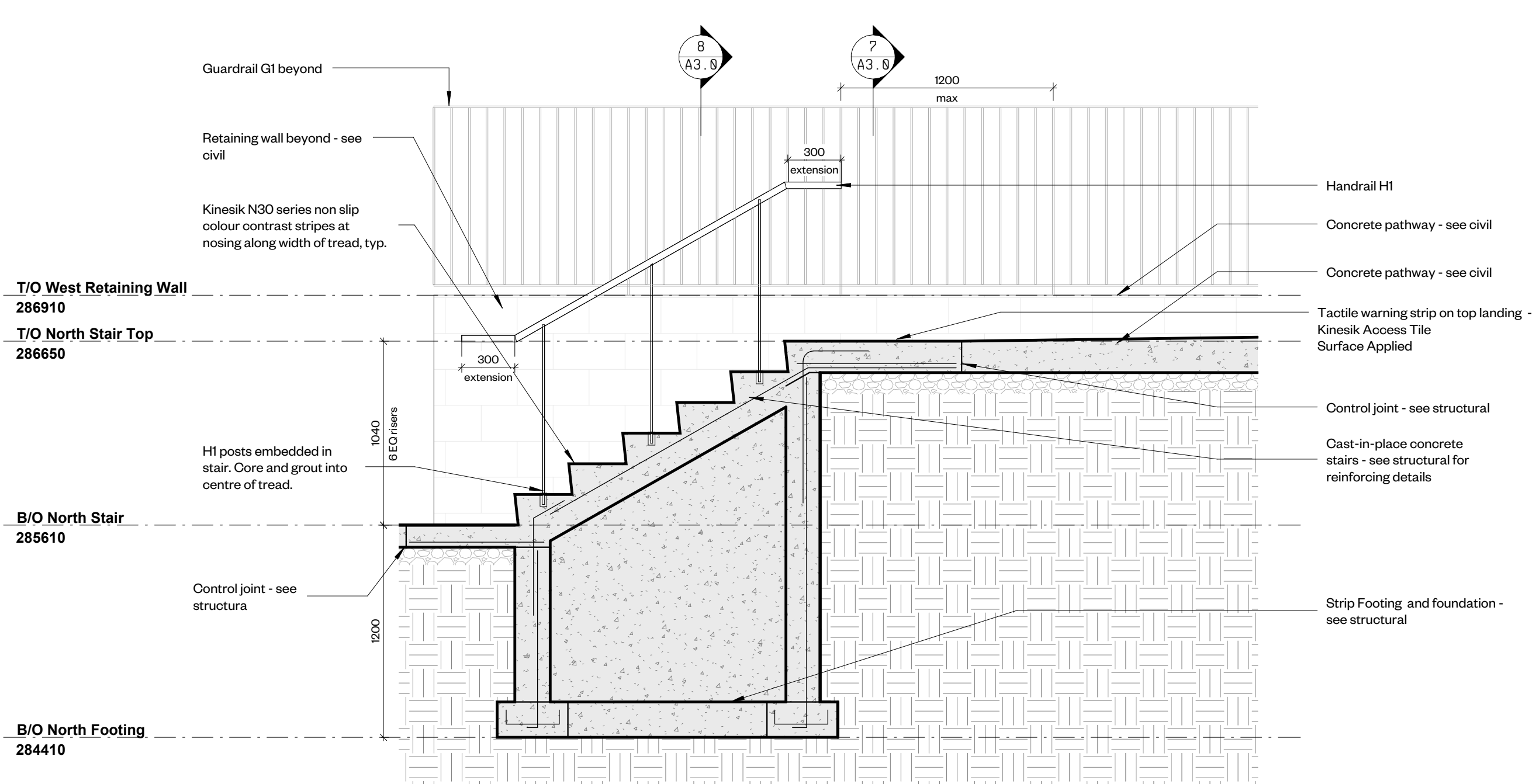
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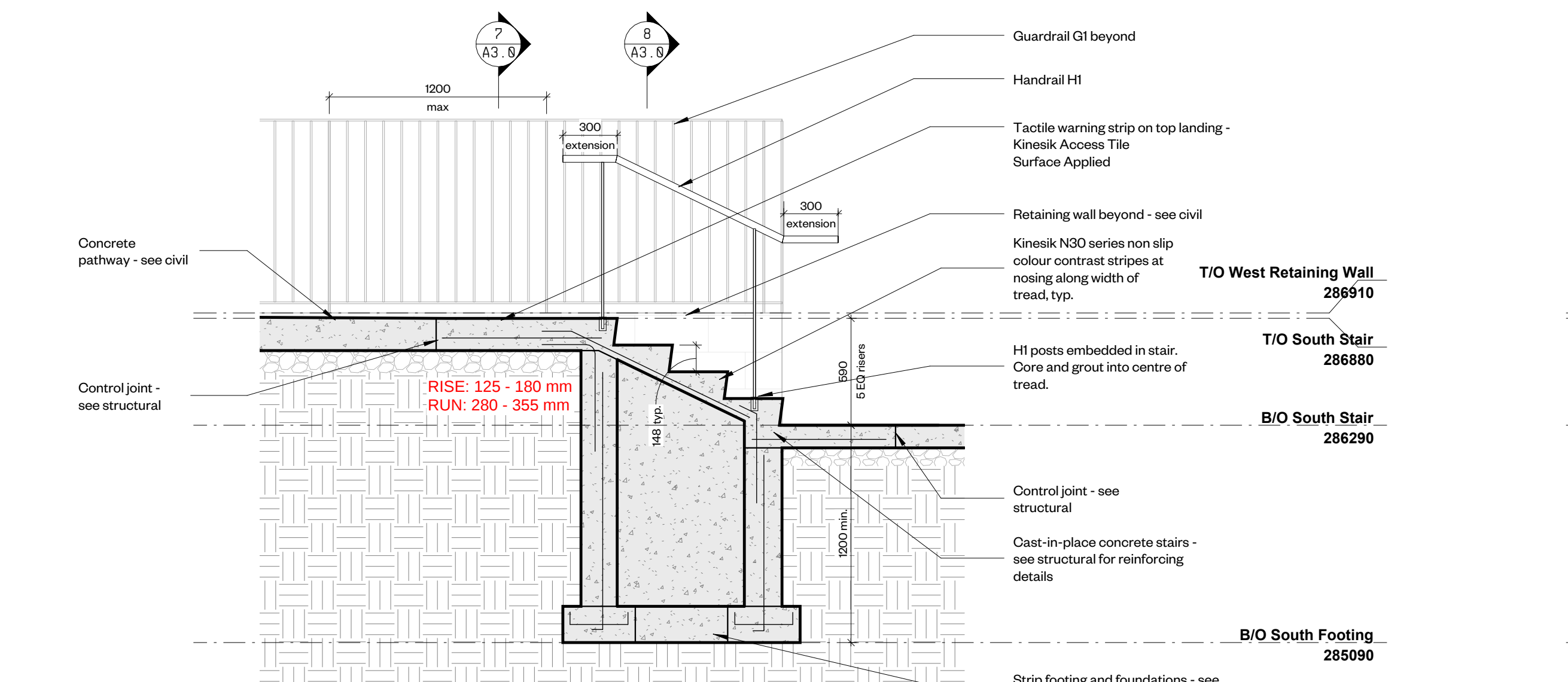
① Detail Plan - North Stair
1 : 50



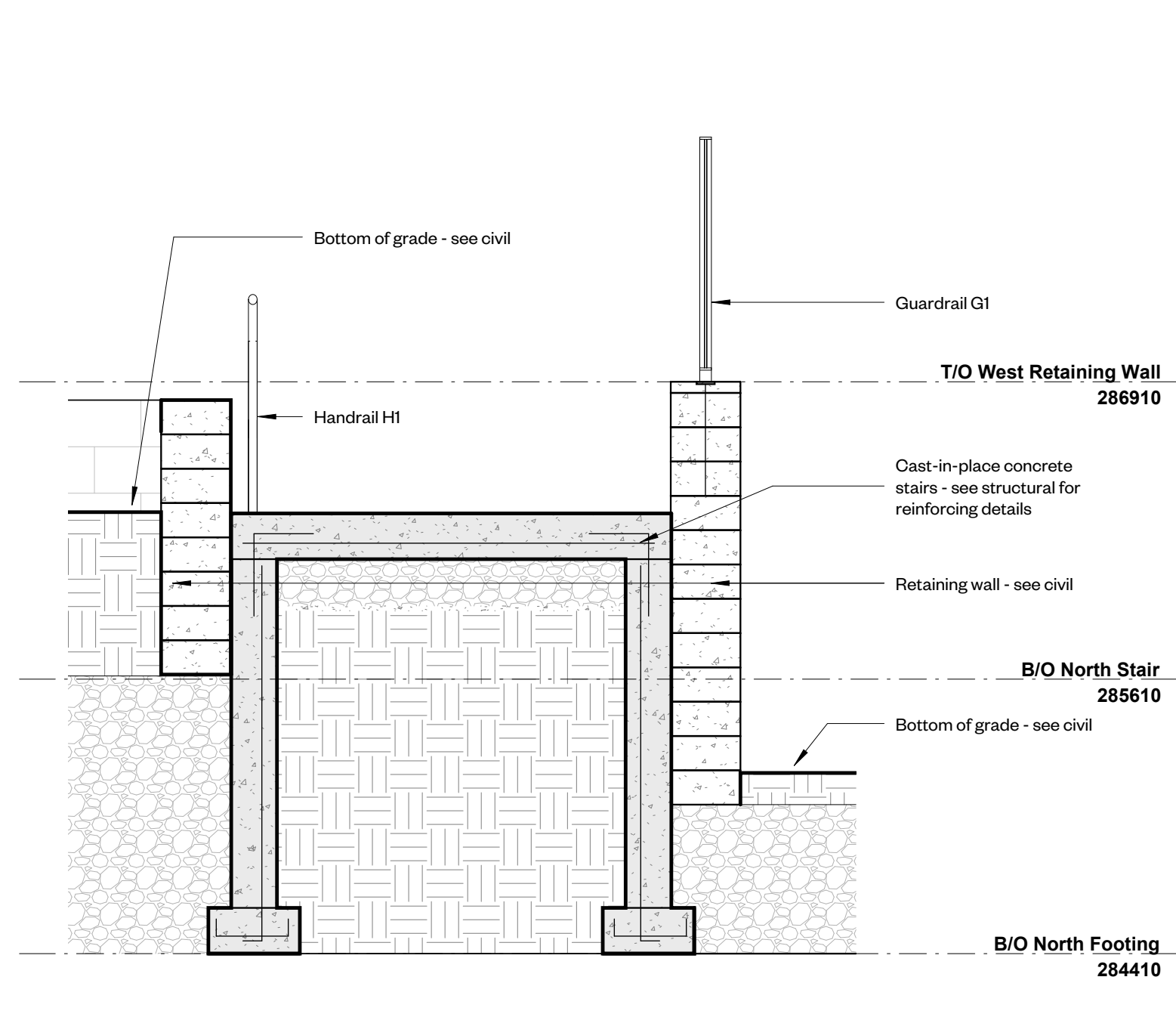
④ Detail Plan - South Stair
1 : 50



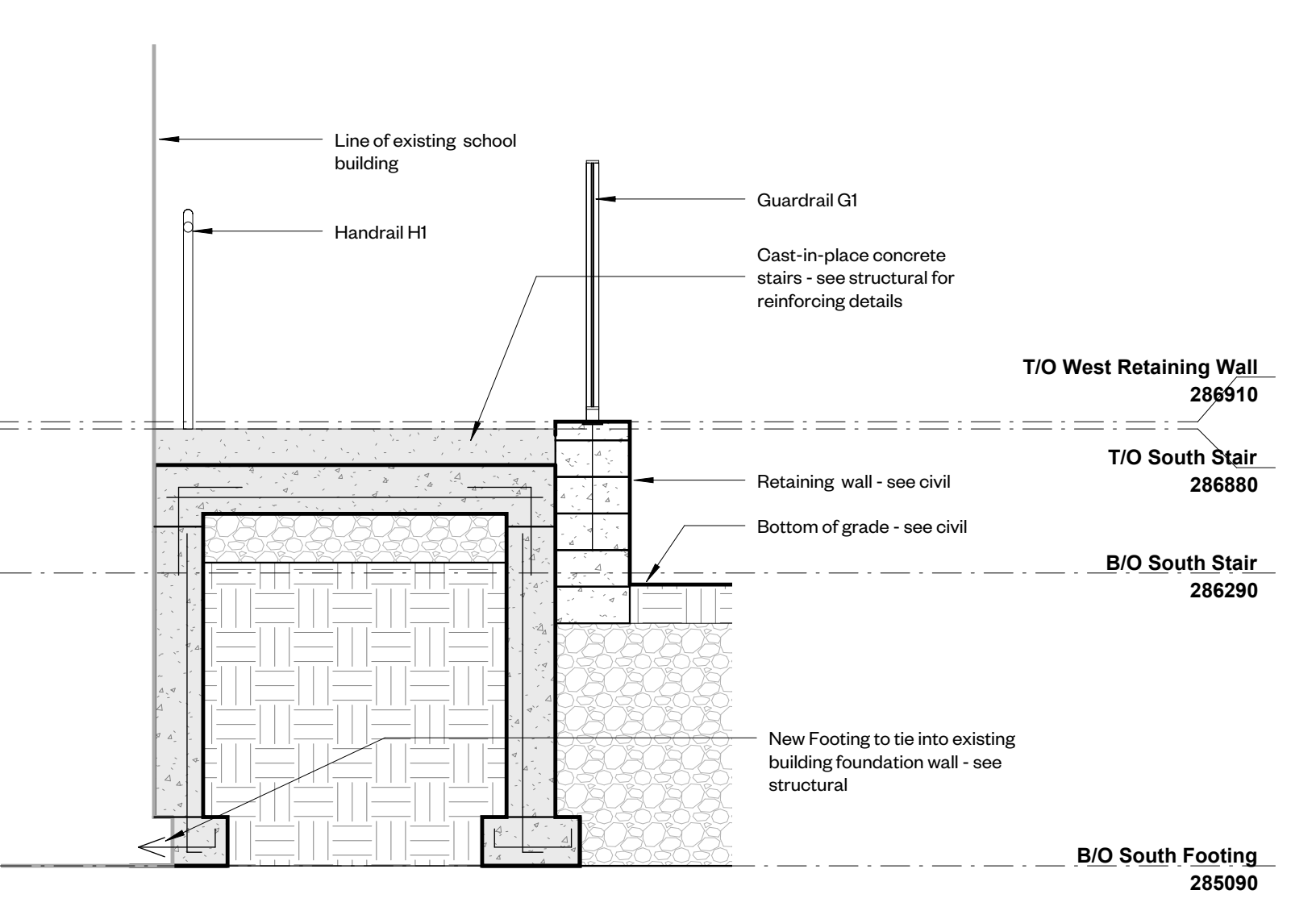
② Section Detail - North Stair 1
1 : 25



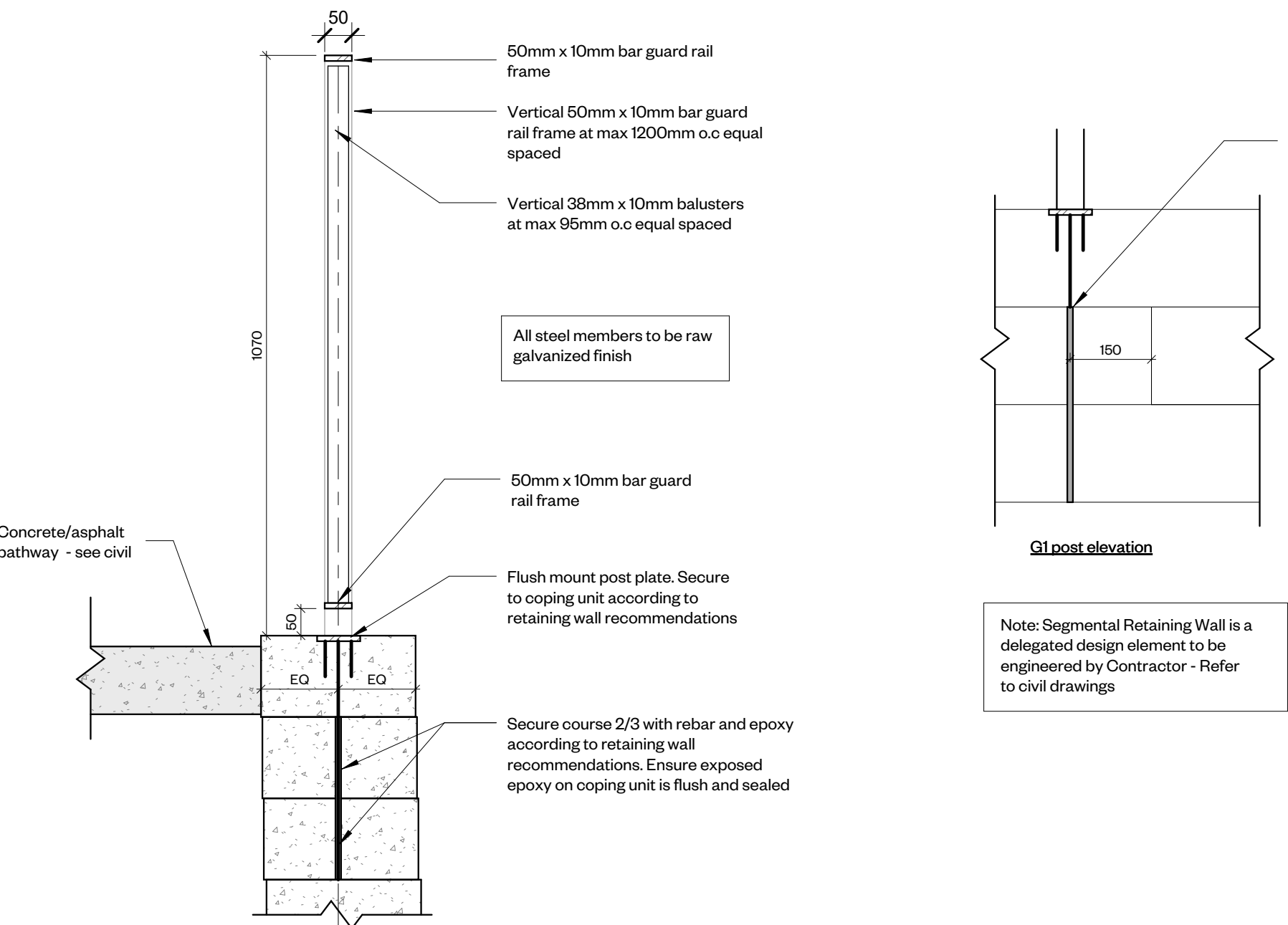
⑤ Section Detail - South Stair 1
1 : 25



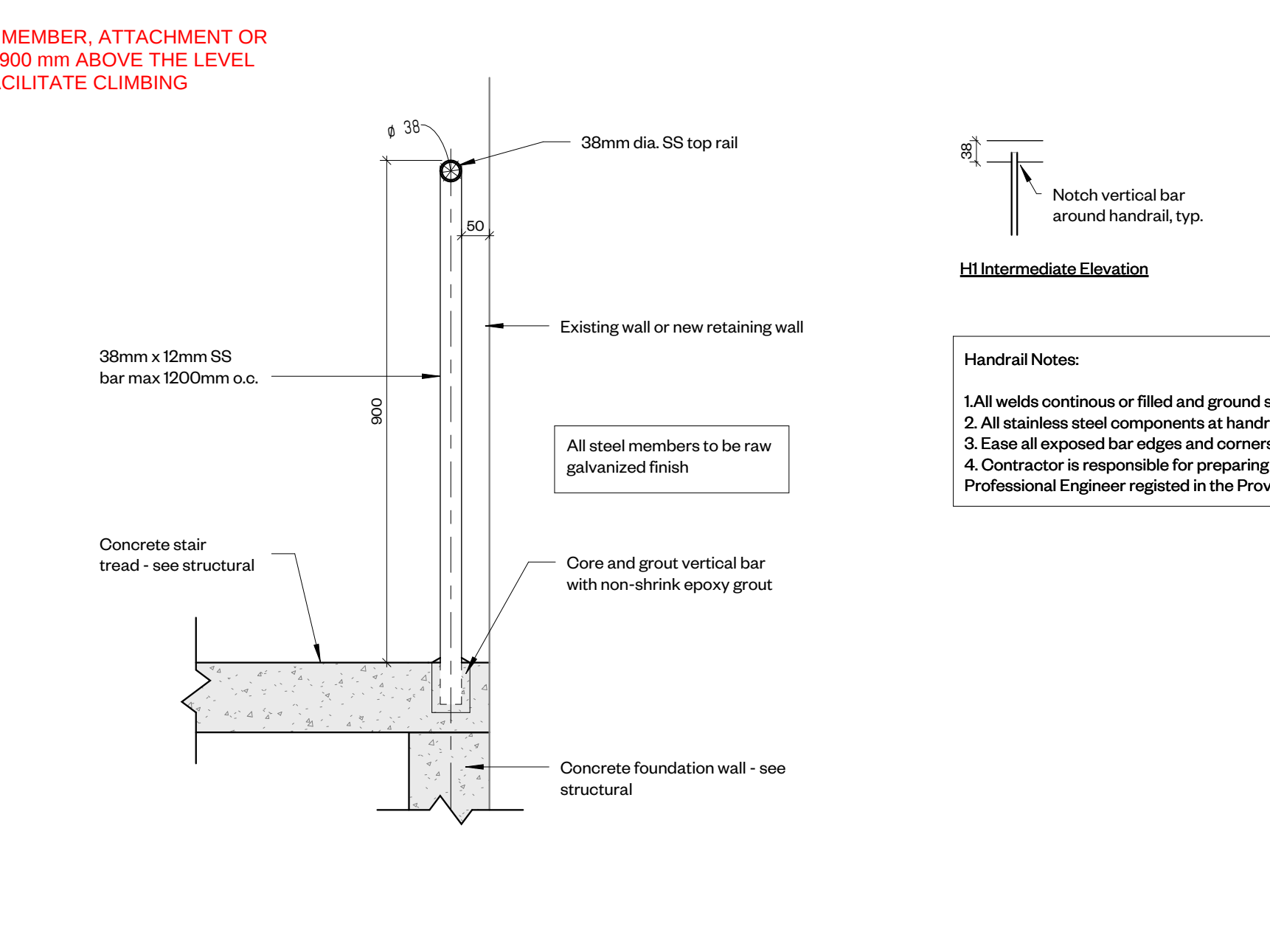
③ Section Detail - North Stair 2
1 : 25



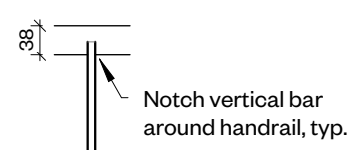
⑥ Section Detail - South Stair 2
1 : 25



⑦ Section Detail - Guardrail G1
1 : 10



⑧ Section Detail - Handrail H1
1 : 10



H1 Intermediate Elevation

Handrail Notes:

1. All welds continuous or filled and ground smooth
2. All stainless steel components at handrails to be SS finish (spec 05 55 00) UNO.
3. Ease all exposed bar edges and corners
4. Contractor is responsible for preparing shop drawings stamped by a Licensed Professional Engineer registered in the Province of Ontario

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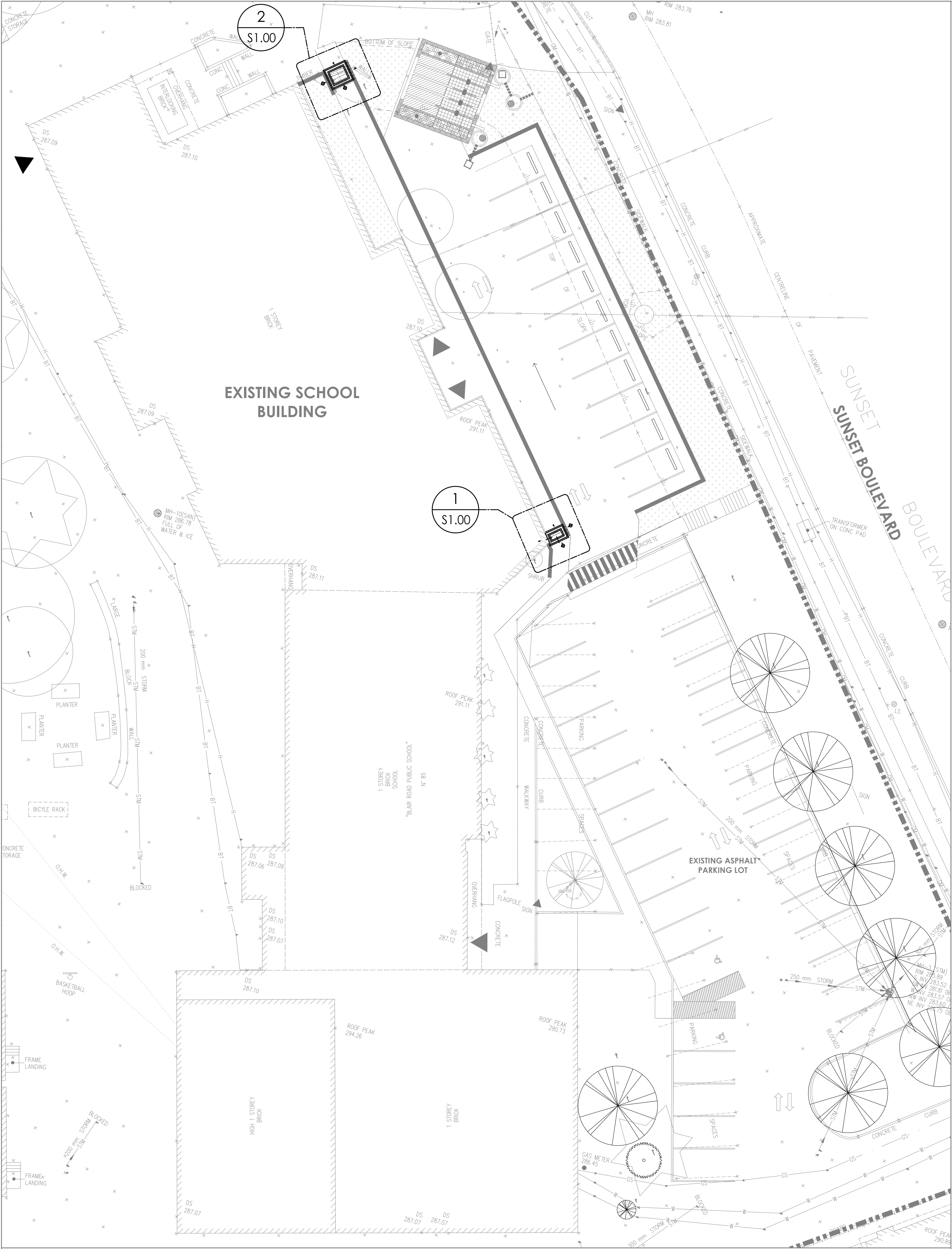
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Stair and Guardrail Details





STRUCTURAL DRAWING LIST

S0.00	GENERAL NOTES & KEY PLAN
S1.00	FOUNDATION PLANS & SECTIONS

GENERAL NOTES

- THE GENERAL NOTES MUST BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS AND SPECIFICATIONS OF ENGINEERING AND ARCHITECTURAL DISCIPLINES WHICH FORM PART OF THIS CONTRACT. THIS INCLUDES DRAWING SPECIFICATIONS AND SKETCHES. SHOULD THERE BE CONTRADICTORY INFORMATION BETWEEN DRAWINGS, SKETCHES AND SPECIFICATIONS, THE ONE WHICH IS MOST STRINGENT TAKES PRECEDENCE.
- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS, TRENCHES, PITS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT INDICATED ON STRUCTURAL DRAWINGS.
- UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS TO SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THE WORK.
- ALL CONNECTIONS CONNECTED TO EXISTING STRUCTURE ARE TO BE SITE VERIFIED.
- REVIEW OF SHOP DRAWINGS BY STRUCTURAL CONSULTANT IS ONLY TO ASSESS THAT SUBMITTED SHOP DRAWINGS REFLECT THE INTENT OF THE STRUCTURAL DESIGN.
- REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FORSEEN THAT THE WORK IS COMPLETE, ACCURATE AND IN CONFORMITY WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- TYPICAL DETAILS SHALL BE USED WHERE SPECIFIC DETAILS ARE NOT SHOWN ON THE DRAWINGS.
- ALL WORK REQUIRED, INCLUDING ANY DEMOLITION, SHALL BE CARRIED OUT IN A MANNER THAT WILL NOT DAMAGE THE EXISTING SITE OR STRUCTURE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL DESIGN, DETAILING, CONSTRUCTION, EXCAVATION AND SHORING, MUST CONFORM TO THE PRESENT ONTARIO BUILDING CODE, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS LATEST EDITION. ALL ASSOCIATED COST WITH THE DESIGN, SUPPLY AND INSTALLATION OF TEMPORARY SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAMPED, ENGINEERED SHORING DRAWINGS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL SUBCONTRACTORS.
- THE GENERAL CONTRACTOR MUST REVIEW ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF ALL WORK AND MUST REPORT ALL DISCREPANCIES TO THE ENGINEER/ARCHITECT.
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS.
- PROVIDE STAMPED STRUCTURAL SHOP DRAWINGS AS NOTED IN THE FOLLOWING TABLE.

ITEMS	REQ'D SUBMITTAL ¹	ENGINEER'S STAMP REQ'D ²	NOTES
REBAR SHOP DWGS.	YES	NO	
CONC. MIX DESIGNS	YES	NO	
- PROJECTS WHICH INCLUDE ANY DEMOLITION AND/OR RENOVATION WORK, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONSTRUCTION. SHOULD A DISCREPANCY ON EITHER BE FOUND, REPORT FINDINGS TO ENGINEER/ARCHITECT.
- ALL DETAILS SHOWN ARE SPECIFIC TO THE PROJECT WHERE A LOCATION IS NOT SPECIFIED FOR A DETAIL, DETAILS IN THE DRAWINGS INCLUDING TYPICAL DETAILS WHICH CLOSELY RESEMBLES THE WORK, WILL APPLY.
- ALL CODES AND REGULATIONS QUOTED ARE TO BE THE LATEST EDITION.

CONCRETE AND REINFORCING

- CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION, TESTING AND STANDARD PRACTICES FOR CONCRETE SHALL BE IN ACCORDANCE WITH CSA STANDARD A23.1/A23.2 (LATEST EDITION).
- CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH THE DESIGN OF CONCRETE STRUCTURES CSA STANDARD A23.3 (LATEST EDITION).
- SUPPLY AND PLACE CONCRETE IN ACCORDANCE TO TABLE 1.

TABLE 1					
	LOCATION	MIN. COMPRESSIVE STRENGTH (f _c) AT 28 DAYS MPa (PSI)	SUMP mm (in)	EXPOSURE CLASS	AIR CONTENT (%)
FIGS	FND. WALL FOOTINGS	25 (3626)	80 ± 30 (3 ± 1)	N	NONE
WALLS	FND. WALLS	35 (5000)	80 ± 30 (3 ± 1)	C-1	5-8
SLABS & STAIRS	STAIRS	35 (5000)	80 ± 30 (3 ± 1)	C-1	5-8
- THE COMPRESSIVE STRENGTH OF THE CONCRETE IS BASED ON THE FOLLOWING CONDITIONS:
 - TYPE GU NORMAL PORTLAND CEMENT UNLESS OTHERWISE NOTED OR APPROVED
 - MAXIMUM SIZE OF AGGREGATE 20mm (3/4") WASHED IRREGULAR CUT CLEAR STONE
 - SUMP SHOWN ON THE TABLE IS SUMP WITHOUT SLUMP AID ADMIXTURE. WHERE THE USE OF AN ADMIXTURE IS PREFERRED TO INCREASE THE SLUMP, THE SUPERPLASTICIZED CONCRETE SLUMP MUST REMAIN BELOW THE POINT AT WHICH SEGREGATION WILL OCCUR
- REINFORCEMENT SHALL CONFORM TO CSA G30.3, G30.5 AND G30.18 (LATEST EDITION) YIELD STRENGTH FOR CONCRETE AND MASONRY REINFORCEMENT, f_y=400MPa YIELD STRENGTH FOR WELDED WIRE FABRIC f_y=360MPa
- WHEN COLUMNS AND WALLS ARE POURED INTEGRALLY USE THE HIGHER STRENGTH CONCRETE OF THE ELEMENT WHICH SPECIFIED IN TABLE 1.
- MINIMUM CONCRETE COVER FOR REINFORCING, WHERE NOT SHOWN ON DESIGN DRAWINGS SHALL BE AS FOLLOWS:
 - ALL STEEL NOT CAST IN FORMS PERMANENTLY AGAINST EARTH OR ROCK AND IN A NON-CORROSIVE ENVIRONMENT, COVER SHALL BE 75mm (3").
 - ALL STEEL CAST IN FORMS SHALL FOLLOW TABLE 2 OR AS NOTED ON DRAWINGS.

TABLE 2			
STRUCTURAL ELEMENT	COVER mm (in)	STRUCTURAL ELEMENT	COVER mm (in)
CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH		CONCRETE NOT EXPOSED TO WEATHER OR EARTH	
-BARS LARGER THAN 15M	50 (2")	-SLABS AND WALLS	25 (1")
-BARS 15M AND SMALLER	38 (1½")	-BEAMS AND GIRDERS	38 (1½")
		-COLUMNS MAIN STEEL	50 (2")
FIGS. & OTHER ELEMENTS POURED AGAINST EARTH	75 (3")		

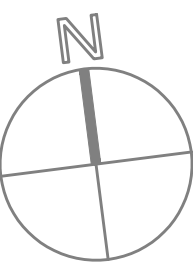
- THE GENERAL CONTRACTOR MUST COORDINATE THE INSTALLATION OF MECHANICAL AND ELECTRICAL OPENINGS AND SLEEVES. THEY MUST FOLLOW THE GUIDE LINES BELOW:
 - NO SLEEVES SHALL BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
 - NO OPENINGS SHALL BE MADE IN FLAT SLABS OR TWO WAY SLAB COLUMN STRIPS EXCEPT AS SHOWN ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
 - WHERE A CORE DRILL OR AN OPENING IS REQUIRED IN HARDENED CONCRETE THE GENERAL CONTRACTOR MUST SEEK THE APPROVAL OF THE STRUCTURAL ENGINEER.
 - ELECTRICAL CONDUITS SHALL NOT PASS THROUGH COLUMNS AND ARE NOT TO RUN HORIZONTALLY IN WALLS.
 - CONDUITS WITHIN SLABS MUST NOT HAVE A (OUTER) DIAMETER GREATER THAN ONE-QUARTER OF THE SLAB THICKNESS. SPACINGS BETWEEN CONDUITS MUST BE AT LEAST 3 TIMES THE OUTER DIAMETER (CLEAR SPACING). CONDUITS MUST BE PLACED WITHIN MIDDLE THIRD OF SLAB. CONDUITS SHALL BE LAID SUCH THAT ONLY SINGLE CROSS OVERS OCCUR WITHIN MAXIMUM 500mm OF ONE ANOTHER. ALL CONDUITS WITHIN SLAB ARE SUBJECT TO APPROVAL BY STRUCTURAL CONSULTANT.
- REFER TO DESIGN DRAWINGS FOR TYPICAL DETAILS OF CONTROL JOINTS, EXPANSION JOINTS AND CONSTRUCTION JOINTS. UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, THE FOLLOWING MAXIMUM DISTANCE BETWEEN JOINTS MUST BE FOLLOWED:
 - CONTROL JOINTS IN WALLS 6m (20') MAXIMUM.
 - MAXIMUM POUR LENGTH FOR SLAB ON GRADE IS 30m (100').
 - ALL SAWCUTS MUST BE MADE WITHIN 24 HRS. FROM PLACING OF CONCRETE. THE DEPTH OF THE SAWCUT MUST BE 1/3 THE DEPTH OF THE SLAB.

TESTING AND INSPECTION

- THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

ITEMS	REQ'D ¹	COMMENTS
REINF. STEEL PLACEMENT	YES	INSPECT FINAL PLACEMENT
CONC. COMPRESSIVE TESTS	YES	
CONC. SLUMP	YES	

* CONCRETE POURS IN WINTER MONTHS TO HAVE MIN. 2 SETS LAB CURED AND 2 SETS FIELD CURED.



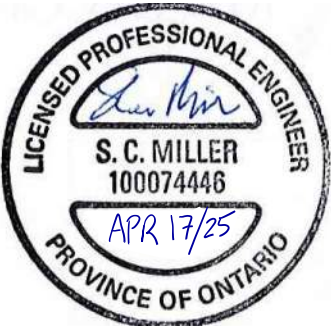
TRUE NORTH



CONSTRUCTION NORTH

MANTECON PARTNERS
STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEERS
15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905) 648-0373
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SEAL



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NO.	ISSUED	DATE	BY
2	ISSUED FOR PERMIT & TENDER	2025-04-17	D.N.
1	ISSUED FOR TENDER	2025-04-11	D.N.

WORKSHOP

CLIENT:
BLAIR ROAD PUBLIC SCHOOL

PROJECT:
**BLAIR ROAD PUBLIC SCHOOL
PARKING LOT EXPANSION**

**85 SUNSET BLVD, CAMBRIDGE
ONTARIO, N1S 1A9**

DRAWING TITLE:
GENERAL NOTES & KEY PLAN

DRAWN BY: D.N.	SCALE: AS INDICATED
CHECKED BY: S.M.	DRAWING NUMBER:
DATE: 2025-02	S0.00
PROJECT NUMBER: 25-013	



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C0.00	GENERAL NOTES
C0.01	TYPICAL DETAILS
C1.00	SITE GRADING PLAN
C1.01	RETAINING WALL SECTION DETAILS
C2.00	SITE SERVICING PLAN
C3.00	SEDIMENT AND EROSION CONTROL PLAN

1. EXISTING UNDERGROUND SERVICE INFORMATION IS DERIVED FROM EXISTING DRAWINGS AND HAS NOT BEEN LOCATED BY THE UTILITY COMPANIES. MANTECON PARTNERS ASSUME NO RESPONSIBILITY AS TO THE ACCURACY, CORRECTNESS AND COMPLETENESS OF THE UNDERGROUND SERVICE INFORMATION SHOWN ON THIS PLAN.
2. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE LIMIT OF MUNICIPAL RIGHT-OF-WAY TO CITY OF CAMBRIDGE STANDARDS.
3. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH CITY OF CAMBRIDGE, LOCAL UTILITY, MINISTRY OF THE ENVIRONMENT, AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS, CURRENT PROVINCIAL BUILDING CODE, AS WELL AS ALL APPLICABLE HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
4. EXISTING ELEVATIONS AND LOCATION OF EXISTING SERVICES ARE NOT GUARANTEED. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES MINIMUM 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK. ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR UTILITY STAKEOUTS, IF REQUESTED BY THE CITY, MINISTRY OF TRANSPORTATION AND/OR ENGINEER. THE CONTRACTOR TO EXPOSE EXISTING SERVICES TO VERIFY EXACT LOCATION, PRIOR TO STARTING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES DURING CONSTRUCTION, OR DUE TO ITS' CONSTRUCTION ACTIVITIES.
6. DEWATERING, IF REQUIRED, SHALL BE THE RESPONSIBILITY AND SOLE EXPENSE OF THE CONTRACTOR. REFER TO THE GEOTECHNICAL REPORT EXISTING SITE CONDITIONS.
7. PERMITS REQUIRED FOR ROADWORK AND RIGHT-OF-WAYS SHALL BE OBTAINED FROM THE LOCAL GOVERNING MUNICIPALITIES PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN CITY RIGHT-OF-WAYS. THE CONTRACTOR IS TO PAY AND COORDINATE ALL REQUIRED PERMITS FOR ROADWORK WITH THE CITY.
8. ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO WORKING WITHIN ANY CITY RIGHT-OF-WAY.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK ON SITE WITH OTHER CONTRACTORS TO PREVENT CONFLICTS.
10. ALL AREAS ON PLAN, INCLUDING EXISTING CONCRETE SIDEWALKS, WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. GRASSED AREAS SHALL BE RESTORED WITH SOD ON MINIMUM 150mm OF TOPSOIL.
11. POSITIVE DRAINAGE SHALL BE PROVIDED THROUGHOUT THE SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS AND SHALL ENSURE THEIR OFFSITE DISPOSAL.
13. THE GENERAL NOTES MUST BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS AND SPECIFICATIONS OF ENGINEERING AND ARCHITECTURAL DISCIPLINES WHICH FORM PART OF THIS CONTRACT. THIS INCLUDES DRAWING SPECIFICATIONS AND SKETCHES. SHOULD THERE BE CONTRADICTORY INFORMATION BETWEEN DRAWINGS, SKETCHES AND/OR SPECIFICATIONS, THE MOST STRINGENT GOVERNS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN AS BUILT TOPOGRAPHIC SURVEY UPON COMPLETION OF THE CONSTRUCTION WORK TO VERIFY COMPLIANCE WITH THE DESIGN AND LOCAL REGULATIONS. THE TOPOGRAPHIC SURVEY SHALL BE CONDUCTED BY A PROFESSIONAL LAND SURVEYOR.
15. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

ITEMS	REQUIRED SUBMITTAL?	ENGINEER'S STAMP REQUIRED?	NOTES
CONCRETE MIX DESIGNS	YES		
ASPHALT MIX DESIGNS	YES		
AGGREGATE GRADATION	YES		
SEWER APPURTENANCES	YES		

1. NATIVE BACKFILL MATERIAL SHOULD BE COMPACTED TO 98% STANDARD PROCTOR DENSITY. GRANULAR BACKFILL MATERIAL SHALL BE PLACED IN LAYERS 150mm IN DEPTH AND COMPACTED TO 98% STANDARD PROCTOR DENSITY.
2. PAVEMENT SHALL BE AS FOLLOW:

<u>PAVEMENT COMPONENT</u>	<u>THICKNESS (mm)</u>
ASPHALT SURFACING -HL3	40mm
ASPHALT SURFACING -HL8	50mm
GRANULAR "A" BASE	175mm
GRANULAR "B" TYPE II SUBBASE	350mm

4. SUBMIT ASPHALT MIX DESIGN AND TRIAL MIX TEST RESULTS TO CONSULTANT FOR APPROVAL.
5. PROOF ROLLING OF SUBGRADE SHALL BE INSPECTED BY THE GEOTECHNICAL CONSULTANT.
6. PLACE GRANULAR BASE TO COMPACTED THICKNESS AS INDICATED, DO NOT PLACE FROZEN MATERIAL.
7. ASPHALT MATERIALS SHALL BE ROLLED AND COMPACTED TO A MINIMUM OF 97% MRD.
8. PROOF ROLLING OF ASPHALT SHALL BE INSPECTED BY THE GEOTECHNICAL CONSULTANT.
9. IF PAVEMENT CONSTRUCTION OCCURS IN WET, INCLEMENT WEATHER THE CONTRACTOR SHALL DISCUSS ADDITIONAL SUBGRADE SUPPORT WITH THE GEOTECHNICAL CONSULTANT AND OBTAIN ADDITIONAL GRANULAR SUB-BASE BASED ON THE GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS.
10. BACKFILL MATERIAL AND COMPACTON SHOULD BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN AS BUILT TOPOGRAPHIC SURVEY UPON THE COMPLETION OF CONSTRUCTION WORK TO VERIFY COMPLIANCE WITH THE DESIGN AND LOCAL REGULATIONS. THE TOPOGRAPHIC SURVEY SHALL BE CONDUCTED BY A PROFESSIONAL LAND SURVEYOR.

1. ALL BARRIER CURB WITHIN SITE TO BE OPSD 600.110, ALL CURB DEPRESSIONS ACROSS ENTRANCE DRIVEWAYS TO BE AS PER CITY STANDARD DRAWING OR MUNICIPAL STANDARDS.
2. CURBS AT ALL PEDESTRIAN CONNECTIONS/CROSSING TO BE RECESSED CURBS, FLUSH WITH PAVEMENT SURFACE.
3. CONCRETE TO BE 35MPa COMPRESSIVE AT 28 DAYS WITH 5% TO 7% AIR ENTRAINMENT.
4. EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM 4.5m ON CENTRE AND WHERE CONCRETE MEETS OTHER HARD SURFACES AND STRUCTURES. (COORDINATE WITH LANDSCAPE/ARCHITECT DRAWINGS)
5. CONSTRUCTION JOINTS WITH DOUBLE EDGER IN FRESH CONCRETE THEN SAWCUT TO A DEPTH OF 30mm. JOINTS SHALL BE SPACED AT MAXIMUM 1.5 METRES ON CENTRE. (COORDINATE WITH LANDSCAPE DRAWINGS)
6. SLUMP OF CONCRETE SHALL BE 80mm.
7. CURB OF CONCRETE TO BE AS PER OPSD 600.110.

1. CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION, TESTING AND STANDARD PRACTICES FOR CONCRETE SHALL BE IN ACCORDANCE WITH CSA STANDARD A23.1/A23.2 (LATEST EDITION).
2. CONCRETE DESIGN SHALL BE IN THE DESIGN OF CONCRETE STRUCTURES CSA STANDARD A23.3 (LATEST EDITION).
3. SUPPLY AND PLACE CONCRETE IN ACCORDANCE TO TABLE 1:

LOCATION	MINIMUM COMPRESSIVE STRENGTH (f _c) AT 28 DAYS MPa (PSI)	SLUMP mm (in)	EXPOSURE CLASS	AIR CONTENT (%)
SIDEWALK/CURBS PAVING SLABS, EXTERIOR CONCRETE	35 (5000)	40 ± 20 [1-1/2 ± 3/4]	C-2	5-8

4. PAVEMENT SHALL BE:

PAVEMENT COMPONENT	THICKNESS (mm)
CONCRETE PAVERS	AS NOTED
CONCRETE SLAB	125 (UNLESS OTHERWISE NOTED)
GRANULAR "A" BASE	100
GRANULAR "B" BASE	200 (UNLESS OTHERWISE NOTED)

5. GRANULAR BASE LAYERS SHALL BE COMPACTED TO MIN. 98% STANDARD PROCTOR DENSITY.
6. THE COMPRESSIVE STRENGTH OF THE CONCRETE IS BASED ON THE FOLLOWING CONDITIONS:
 - a. TYPE GU NORMAL PORTLAND CEMENT UNLESS OTHERWISE NOTED OR APPROVED.
 - b. MAXIMUM SIZE OF AGGREGATE 20mm (3/4") WASHED IRREGULAR CUT CLEASTONE, EXCEPT FOR CONCRETE TOPPING WHICH SHALL HAVE MAXIMUM SIZE OF AGGREGATE 10mm (3/8") WASHED IRREGULAR CUT CLEASTONE.
 - c. SLUMP SHOWN ON THE TABLE IS SLUMPED WITHOUT SLUMP AD MIXTURE. WHEN USE OF AN ADMIXTURE IS REQUIRED TO INCREASE THE SLUMP, SUPERPLASTICIZED CONCRETE SLUMP SHALL REMAIN BELOW THE POINT AT WHICH SEGREGATION WILL OCCUR.

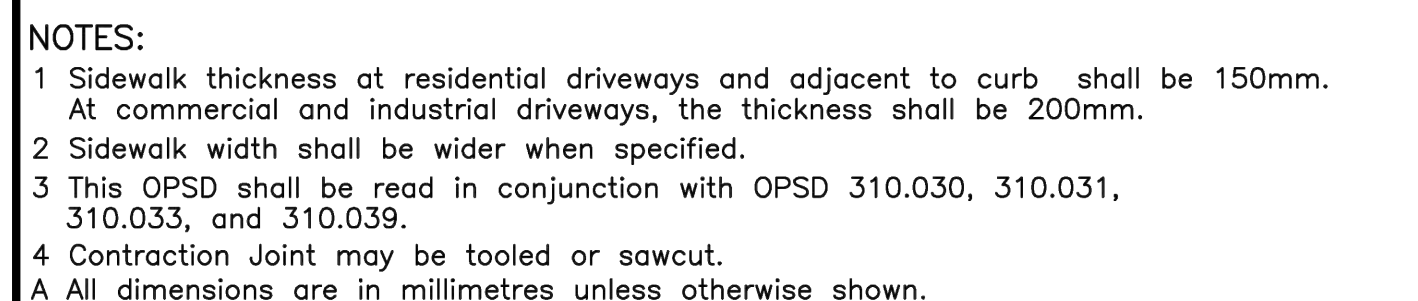
1. THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY PAID BY OWNER. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

ITEMS	REQUIRED?	COMMENTS
SOIL BEARING CAPACITY	YES	BY SOILS ENGINEER
SOIL COMPACTION	YES	BY SOILS ENGINEER
CONCRETE COMPRESSIVE TESTS	YES	MINIMUM 2 SETS PER EACH 50m³
CONCRETE SLUMP	YES	

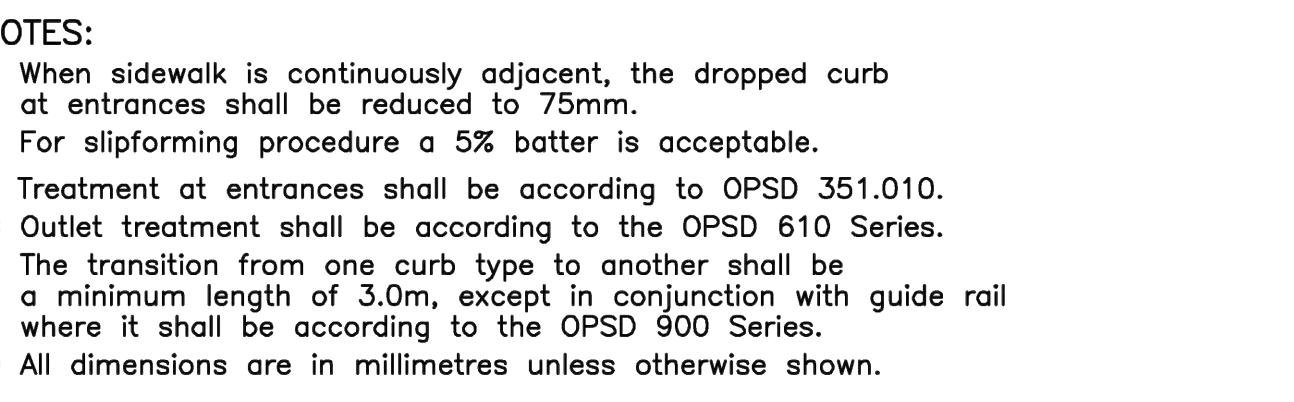
1. ALL BEDDING AND BACKFILL MATERIAL, ROAD SUB-GRADES AND GENERALLY ALL MATERIAL USED FOR LOT GRADING AND FILL SECTIONS, ETC., SHALL BE COMPACTED TO MIN. 95% SPD (UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER). ALL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm LIFTS.
2. ALL GRANULAR ROAD BASE MATERIALS SHALL BE COMPACTED TO 98% SPD.
3. FOR ALL SEWERS AND WATERMAINS IN FILL SECTIONS, THE COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE.

1. ALL SERVICES TO BE INSTALLED AS PER THE LATEST CITY STANDARDS AND SPECIFICATIONS MANUAL.
2. MINIMUM AND MAXIMUM DESIGN REQUIREMENT FOR VELOCITIES 0.80 to 6.0m/s FOR STORM SERVICE.
3. MINIMUM BEDDING REQUIREMENTS FOR ALL SINGLE STORM AND SANITARY SEWER MAINS AND ALL RELATED CONNECTIONS SHALL BE CLASS B BEDDING AS PER THE REGION OF WATERLOO STANDARD DRAWING S5MS E-01.
4. THE TRENCH ABOVE THE SPECIFIED BEDDING SHALL BE BACKFILLED WITH APPROVED NATIVE MATERIAL EXCAVATED FROM THE TRENCH OR OBTAINED ELSEWHERE ON THE PROJECT, AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 300 mm, AND SHALL BE COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.
5. ALL MANHOLE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL WITHIN 300mm OF THE STRUCTURE AND COMPACTED TO 98% STANDARD PROCTOR DENSITY.
6. SEWER BEDDING, COVER AND BACKFILL SHALL BE WITH GRANULAR A COMPACTED TO 100% SPMD AND IN ACCORDANCE WITH THE REGION OF WATERLOO GUIDELINES.
7. STORM AND SANITARY TO BE INSTALLED WITH A MINIMUM 275m COVER AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE LEVEL OF THE MAIN SEWER, ON PRIVATE PROPERTY, THE MINIMUM COVER IS NOT TO BE LESS THAN 1.2m.
8. CONNECTIONS TO MANHOLES SHALL BE IN ACCORDANCE WITH OPSF 407 CONSTRUCTION SPECIFICATION PART 300 JORDAN BORN WORKS (PRODUCT NO. 03022011) BIBBY'S-CROW (AUG. STABLE C-50M-ON) OR STAR PIPE PRODUCTS MH24SI, OR APPROVED EQUIVALENT ON REGION OF WATERLOO, ALL SELF-LEVELERS TO BE SUPPLIED WITH RUBBER GASKETS.
9. MAINTENANCE HOLE FRAMES AND LIDS SHALL BE ADJUSTED SO THAT WHEN TESTED WITH A 3m STRAIGHT EDGE IN ANY DIRECTION OF THE SURFACE, THE GAP SHALL NOT EXCEED 7mm BETWEEN THE BOTTOM OF THE STRAIGHT EDGE AND THE SURFACE OF THE ASPHALT OR FRAME AND APPEARANCE.
10. NEW MAIN MAINTENANCE HOLES SHALL BE FITTED WITH SELF-ADJUSTING MANHOLE FRAME AND ANCHORING FAST JORDAN BORN WORKS (PRODUCT NO. 03022011) BIBBY'S-CROW (AUG. STABLE C-50M-ON) OR STAR PIPE PRODUCTS MH24SI, OR APPROVED EQUIVALENT ON REGION OF WATERLOO, ALL SELF-LEVELERS TO BE SUPPLIED WITH RUBBER GASKETS.
1. FOR MAINTENANCE HOLE DEPTHS BETWEEN 5.0 AND 10.0 m, A SAFETY GRATE MUST BE INSTALLED AT THE MID-POINT, FOR MAINTENANCE HOLE DEPTHS BETWEEN 10.0 AND 15.0 m, A SAFETY GRATE MUST BE INSTALLED AT THE THIRD POINTS, REFER TO OPSD 404.02.
2. STORM SEWERS SHALL BE PVC, BEL SPIGOT JOINTS, RUBBER GASKET, LUBRICANT AND ALL OTHER NECESSARY APPURTENANCES SHALL BE MANUFACTURED IN CONFORMANCE WITH OPSF 1841 AND INSUREANCE IS CERTIFIED MANHOLE FOR PVC SEWER, BEL SPIGOT JOINTS AND CSA B182.4 FOR PROFILE PVC SEWER PIPE AND FITTINGS, PVC SEWER SHALL HAVE A MINIMUM PIPE STIFFNESS OF 320 KPA.
3. PVC STORM PIPES TO BE SDR-35 FOR 200mm DIAMETER AND OVER, AND SDR-28 FOR 150mm AND SMALLER TO CSA SPECIFICATIONS B182.2, PVC SANITARY PIPES TO BE SDR-35 FOR 200mm DIAMETER AND OVER, AND SDR-28 FOR 150mm AND SMALLER TO CSA SPECIFICATIONS B182.2.
4. WHERE SANITARY OR STORM CROSSING OCCURS WITH EXISTING OR PROPOSED WATERMAIN, ENSURE A MINIMUM OF 2.5m HORIZONTAL SEPARATION AND 0.5m VERTICAL SEPARATION BY INSUREANCE FOR HAVING THE SEWER TO BE REUSED VIDEO INSPECTED WHILE THE CITY OF HAMILTON SEWER INSPECTOR IS PRESENT, CONTACT PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT, FROWTH MANAGEMENT DIVISION, DEVELOPMENT ENGINEERING CONSTRUCTION SECTION AT (905) 566-2424 X 7860 TO ARRANGE FOR AN INSPECTION.
5. ANY CHANGES IN GRADES AND CATCH BASINS REQUIRE THE APPROVAL OF THE DIRECTOR, DEVELOPMENT DIVISION, PLANNING AND DEVELOPMENT DEPARTMENT.
6. EXISTING SEWERS TO BE KEPT IN GOOD WORKING CONDITION AND OF ADEQUATE CAPACITY TO MEET THE REQUIREMENTS OF THE SITE, THE APPLICANT/OWNER OR THEIR CONTRACTOR IS RESPONSIBLE FOR HAVING THE SEWER TO BE REUSED VIDEO INSPECTED WHILE THE CITY OF HAMILTON SEWER INSPECTOR IS PRESENT, CONTACT PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT, FROWTH MANAGEMENT DIVISION, DEVELOPMENT ENGINEERING CONSTRUCTION SECTION AT (905) 566-2424 X 7860 TO ARRANGE FOR AN INSPECTION.
7. ALL SEWERS TO BE VIDEO INSPECTED.

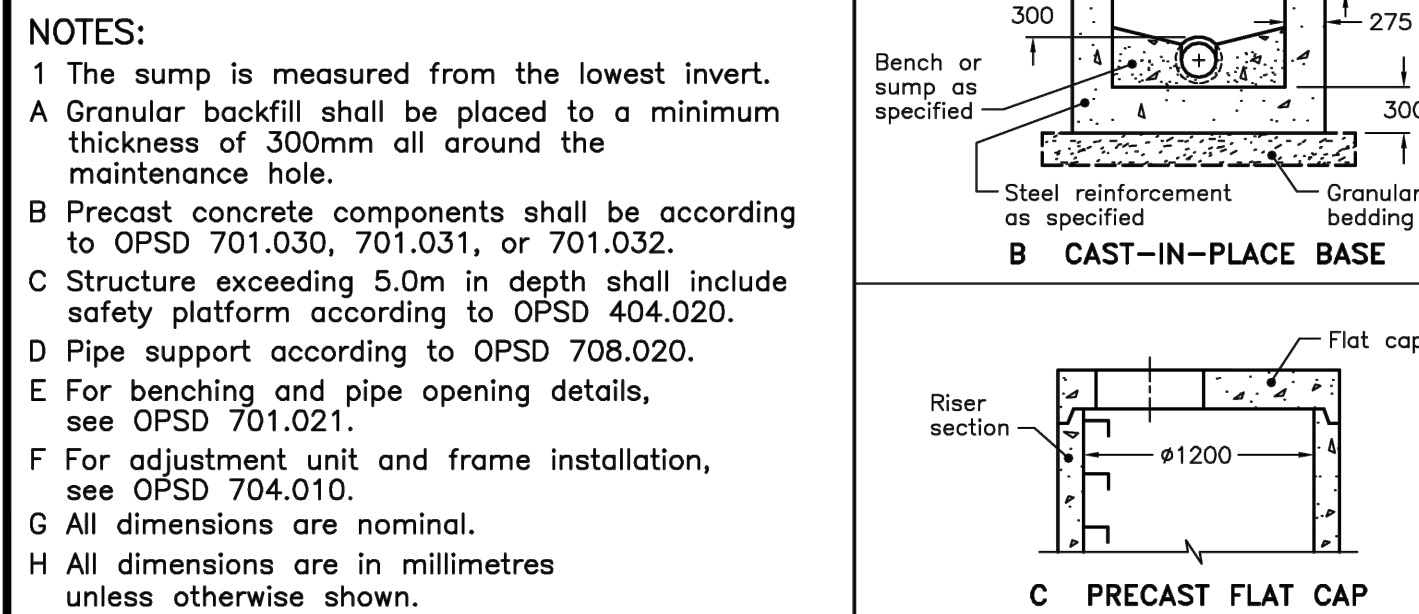
1. ALL SILT FENCING TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY AREA GRADING, EXCAVATING, OR DEMOLITION.
2. PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION.
3. PROTECT ALL MANHOLES, AND PIPE ENDS (EXISTING AND NEW) FROM SEDIMENT INTRUSION WITH GEOTEXTILE CLOTH (TERRAFIX 270), ALL CATCHBASINS TO HAVE SILTSACK AS PER THE ATTACHED DETAILS.
4. PREVENT WIND-BLOWN DUST.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
6. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY BY CONTRACTOR AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF ONE THIRD (1/3) THE HEIGHT OF THE SILT FENCE.
7. SEDIMENT CONTROL FENCE TO BE AS PER OPSD 219.130
8. ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RE-STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE MUNICIPAL ROADWAY AND SIDEWALKS AS REQUIRED TO SATISFY THE AUTHORITIES HAVING JURISDICTION AND AT THE END OF EACH WORK DAY.
10. MUD MATS OF 150MM RIP RAP, (15 METRES LONG, 7.5 METRES WIDE, 300MM DEEP) SHALL BE PROVIDED ON ALL SITE CONSTRUCTION ENTRANCES. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE WITH MUD MATS AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE ITS EFFECTIVENESS AT ALL TIMES. REFERENCE SHOULD BE DRAWN TO LOCATIONS ON DRAWING.
11. CONSULTANT TO MONITOR THE SITE DEVELOPMENT TO ENSURE ALL EROSION CONTROLS ARE INSTALLED AND MAINTAINED TO CITY REQUIREMENTS.



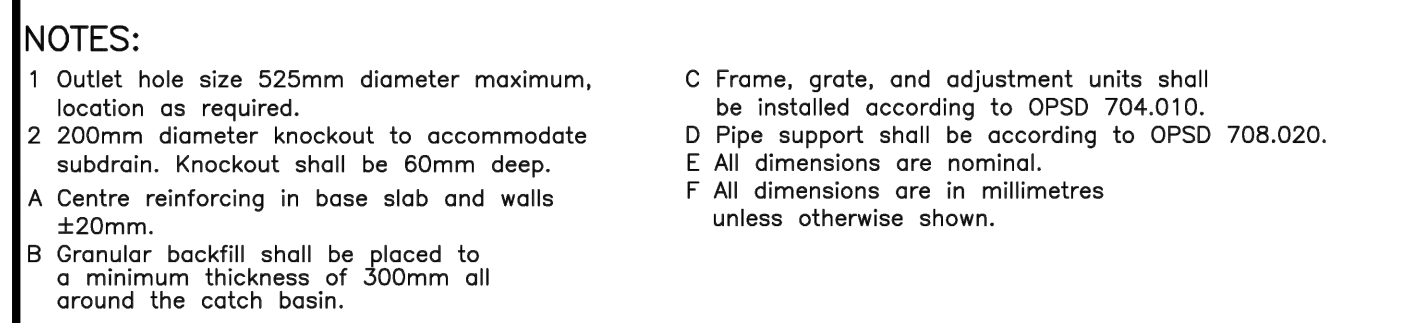
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2019	Rev 3	
CONCRETE SIDEWALK	_____ _____ _____ _____		
OPSD 310.010			



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev	2	
CONCRETE BARRIER CURB				
OPSD 600.11				

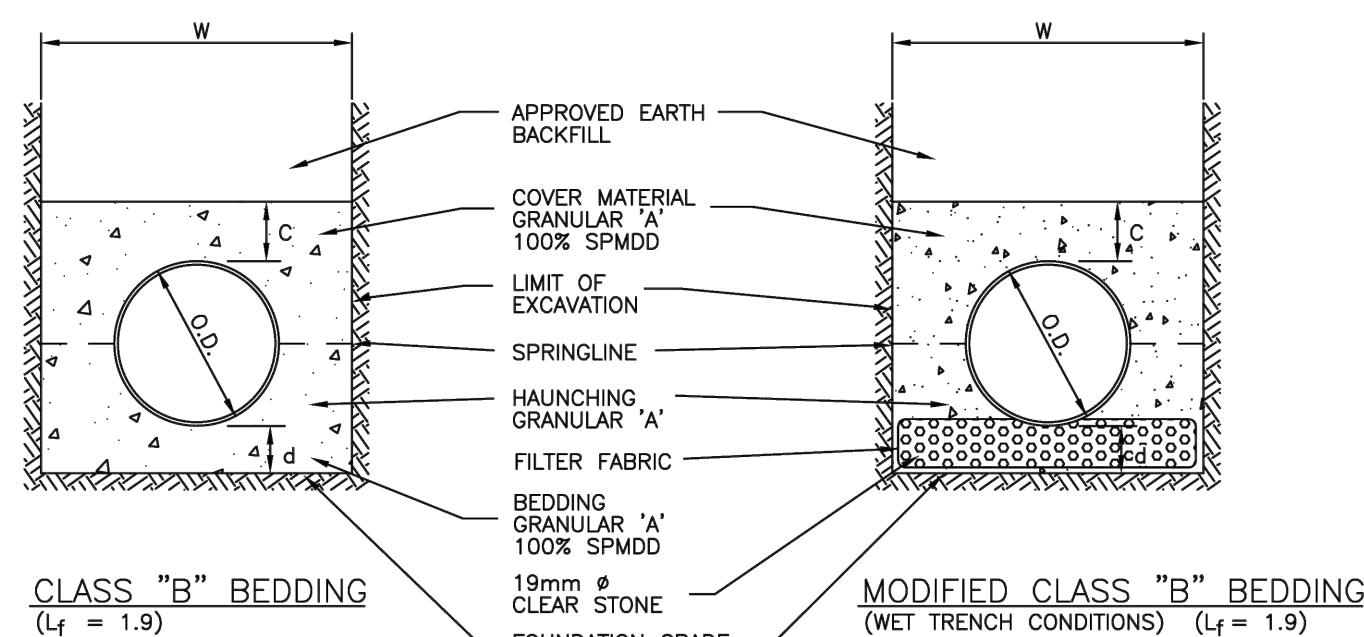


ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2014	Rev 5	
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER		OPSD 701.010		



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

NOMINAL PIPE INSIDE DIAMETER D (mm)	MINIMUM TRENCH WIDTH W (mm)	MINIMUM BEDDING BELOW D (mm)	MINIMUM COVER OVER PIPE C (mm)
<u>RIGID PIPE</u>			
900 or less	O.D. + 600	150	300
greater than 900 to less than 2100	O.D. + 600	0.15 x I.D.	
2100 & over	O.D. + 1000	300	300
<u>FLEXIBLE PIPE</u>			
Under 1200	O.D. + 600	150	300



BEDDING FOR RIGID AND FLEXIBLE PIPE SEWERS

- NOTES:
1. O.D. = OUTSIDE DIAMETER OF PIPE.
 2. I.D. = INSIDE DIAMETER OF PIPE.
 3. IN ROCK TRENCHES, BEDDING DEPTH (d) BELOW WATERMAINS AND SEWER PIPES SHALL BE INCREASED TO 300mm.
 4. FOR PURPOSE OF CONTRACT SPECIFICATIONS BEDDING INCLUDES BEDDING HAUNCHING & COVER MATERIAL.
 5. IN WET TRENCH CONDITIONS 15mm ϕ CLEAR STONE MAY BE USED TO INVERT OF PIPE. THE BEDDING BELOW INVERT SHALL BE WRAPPED IN FILTER FABRIC (TERRAFIX 270 R OR APPROVED EQUIV.) WHERE DIRECTED BY THE ENGINEER.
 6. GRANULAR "A" SHALL BE OF VIRGIN MATERIAL, BEDDING SHALL NOT CONTAIN RECYCLED ASPHALT OR CONCRETE.

REGION OF WATERLOO AND AREA MUNICIPALITIES STANDARD DRAWINGS		REVISION DATE: DEC. 2023
STANDARD BEDDING FOR SEWERS AND WATERMAINS		SSMS
		E1 - 01



Professional Engineer Seal of Y.M. Taraky, License No. 100035303, Province of Ontario, dated 2025-06-09.

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3.	RE-ISSUED FOR PERMIT	2025-06-09	Y
2.	ISSUED FOR PERMIT & TENDER	2025-04-17	Y
1.	ISSUED FOR PROGRESS REVIEW	2025-03-28	A
NO.	ISSUED	DATE	

WORKSHOP

CLIENT:

BLAIR ROAD PUBLIC SCHOOLS

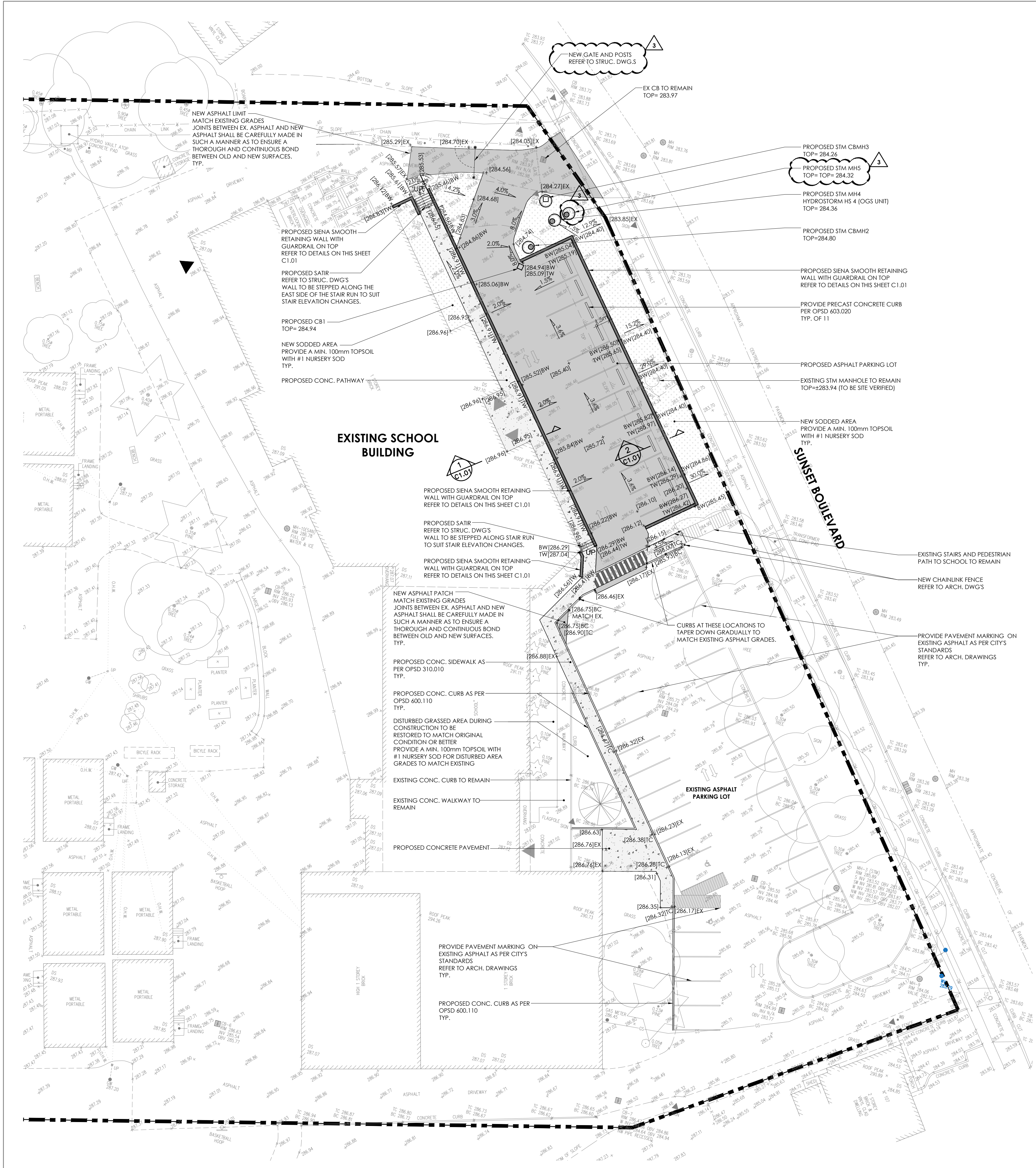
PROJECT: BLAIR ROAD PUBLIC SCHOOL
PARKING LOT EXPANSION

85 SUNSET BLVD, CAMBRIDGE
ONTARIO, N1S 1A9

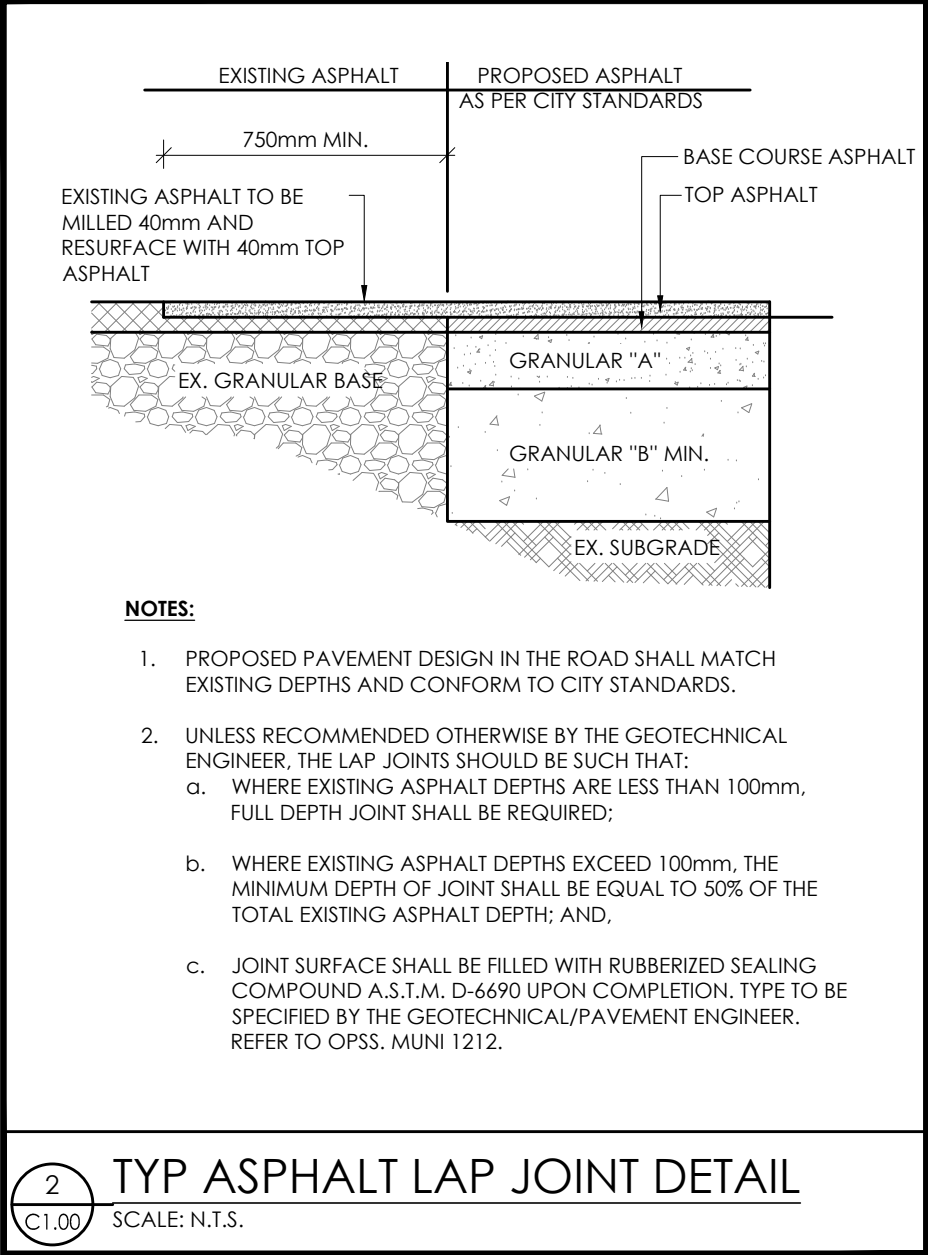
DRAWING TITLE:

TYPICAL DETAILS

DRAWN BY: A.A.	SCALE: AS NOTED
CHECKED BY: Y.T.	DRAWING NUMBER: C0.01
DATE: 2025-02	
PROJECT NUMBER: 25-013	



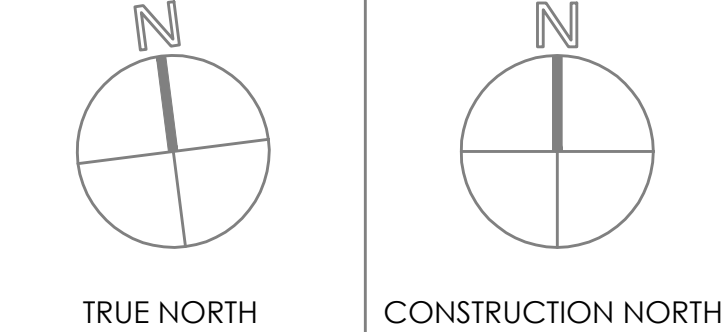
SITE GRADING PLAN
SCALE: 1:250



LEGEND - SITE GRADING	
THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD/GENERIC LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
REFER	DESCRIPTION
---	PROPERTY LINE
[Hatched Box]	EXISTING BUILDING
[Diagonal Lines Box]	PROPOSED ASPHALT
[Dotted Box]	PROPOSED CONCRETE
[Cross-hatched Box]	PROPOSED SOD
[+ XXX.XX]	EXISTING ELEVATION
[+ XXX.XX]	PROPOSED ELEVATION
[CB]	PROPOSED CATCH BASIN
[CBMH]	PROPOSED CATCH BASIN MANHOLE
[TMWH]	PROPOSED STORM MANHOLE
METRIC: DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048	

SITE PLAN	
PLAN OF TOPOGRAPHICAL SURVEY OF BLAIR ROAD PUBLIC SCHOOL BEING N° 85 SUNSET BOULEVARD, CITY OF CAMBRIDGE REGIONAL MUNICIPALITY OF WATERLOO	
INFORMATION ON THIS SITE PLAN TAKEN FROM SURVEY / TOPOGRAPHY PREPARED BY:	
GENESIS LAND SURVEYING INC. 10 FOUR SEASONS PLACE 10TH FLOOR TORONTO, M9B 6H7 T 905-499-2956 - T 1 800-262-9784	
THE SURVEY WAS COMPLETED ON DECEMBER 30, 2024	

BENCHMARK	
ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF CAMBRIDGE BENCHMARK N° 0011963308 WITH A PUBLISHED ELEVATION OF 300.480 METRES (CGVD-1928/POST-1978).	
UTILITY NOTE	
THE LOCATION OF UNDERGROUND UTILITIES SHOWN HAS BEEN LOCATED BY MARK-IT LOCATES INC. ON JANUARY 6, 2025 AND IS FOR DESIGN PURPOSES ONLY. IT IS NOT TO BE USED AS A SUBSTITUTE FOR NEW LOCATES PRIOR TO EXCAVATION. AND IS CERTIFIED BY MARK-IT LOCATES INC. ONLY. ANY DISCREPANCIES ARE TO BE REPORTED. READ WITH CORRESPONDING LOCATE REPORT.	
SNOW NOTE	
THE FIELDWORK WAS COMPLETED DURING HEAVY SNOW CONDITIONS AND EVERY ATTEMPT HAS BEEN MADE TO ACCURATELY CAPTURE ALL RELEVANT TOPOGRAPHIC DETAILS, ANY OMISSIONS SHOULD BE REPORTED TO THE UNDERSIGNED.	



MANTECON PARTNERS
STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEERS
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Phone: (905) 648-0373
www.manteconpartners.com



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NO.	ISSUED	DATE	BY
3.	RE-ISSUED FOR PERMIT	2025-06-09	Y.T.
2.	ISSUED FOR PERMIT & TENDER	2025-04-17	Y.T.
1.	ISSUED FOR PROGRESS REVIEW	2025-03-28	A.A.

WORKSHOP

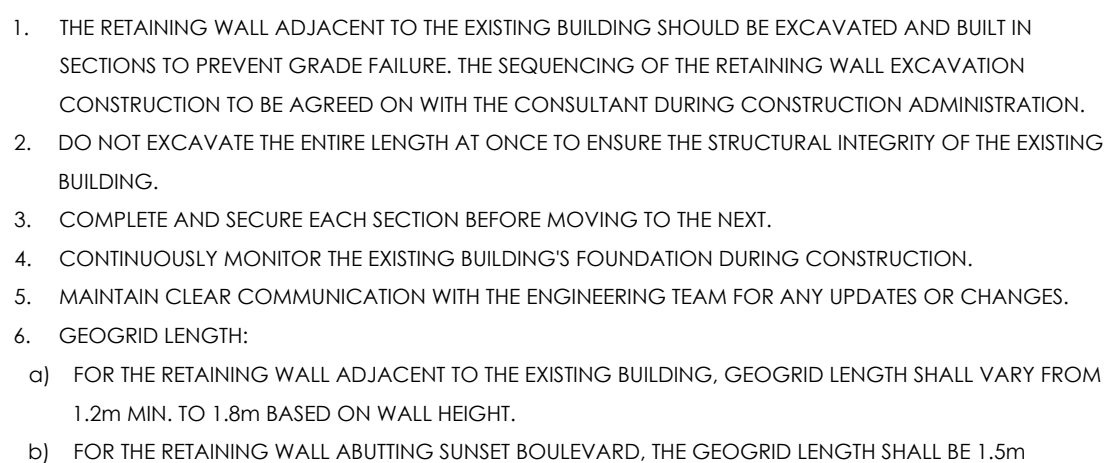
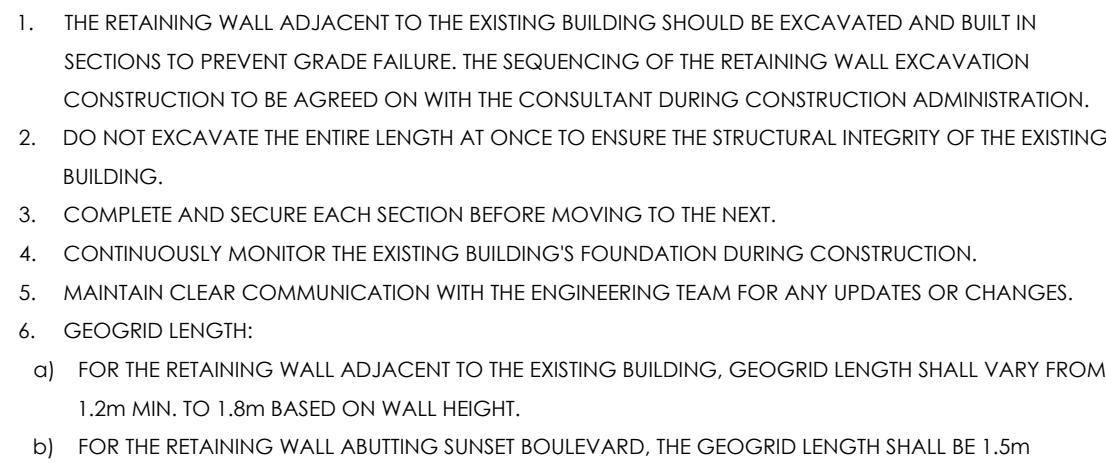
CLIENT:
BLAIR ROAD PUBLIC SCHOOL

PROJECT:
BLAIR ROAD PUBLIC SCHOOL PARKING LOT EXPANSION

85 SUNSET BLVD, CAMBRIDGE ONTARIO, N1S 1A9

DRAWING TITLE:
SITE GRADING PLAN

DRAWN BY: A.A.	SCALE: AS NOTED
CHECKED BY: C.B.	DRAWING NUMBER: C1.00
DATE: 2025-02	
PROJECT NUMBER: 25-013	





1. THE CONSTRUCTION OF THE PARKING LOT INVOLVES LOWERING THE GRADES BY APPROXIMATELY 1.5 METERS IN AREAS WITH EXISTING SANITARY AND STORM PIPES. CONTRACTOR SHALL ENSURE THAT THESE PIPES ARE PROTECTED DURING EXCAVATION TO PREVENT DAMAGE.
2. THE CONTRACTOR SHALL ACCURATELY LOCATE AND MARK ALL EXISTING UTILITIES BEFORE EXCAVATION.
3. THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL EXISTING PIPES AND STRUCTURES TO AVOID INTERFERENCE DURING THE WORK AND NOTIFY THE ENGINEER ONCE DEPTHS ARE CONFIRMED.
4. THE CONTRACTOR SHALL USE PROPER PROTECTION METHODS TO PREVENT PIPE EXPOSURE OR DAMAGE.
5. IF ANY RISK OF DAMAGE OCCURS, THE CONTRACTOR MUST HALT WORK IMMEDIATELY AND NOTIFY THE PROJECT MANAGER OR ENGINEER.
6. THE CONTRACTOR SHALL ENSURE ALL NECESSARY INSPECTIONS, PERMITS, AND APPROVALS ARE OBTAINED BEFORE EXCAVATION IN AREAS WITH UTILITIES.
7. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION AND MUST REPAIR OR REPLACE THEM AT THEIR OWN COST.

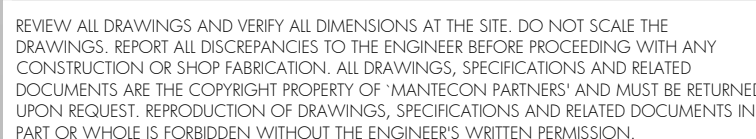
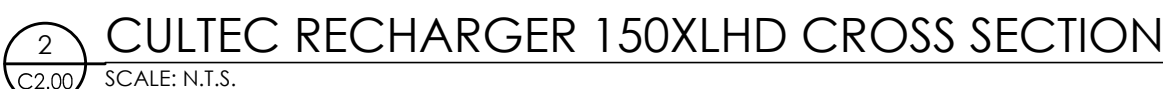
METRIC: DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

THE SURVEY WAS COMPLETED ON DECEMBER 30, 2024

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF CAMBRIDGE BENCHMARK N° 00119663308 WITH A PUBLISHED ELEVATION OF 300.480 METRES (CGVD-1928:POST-1978).

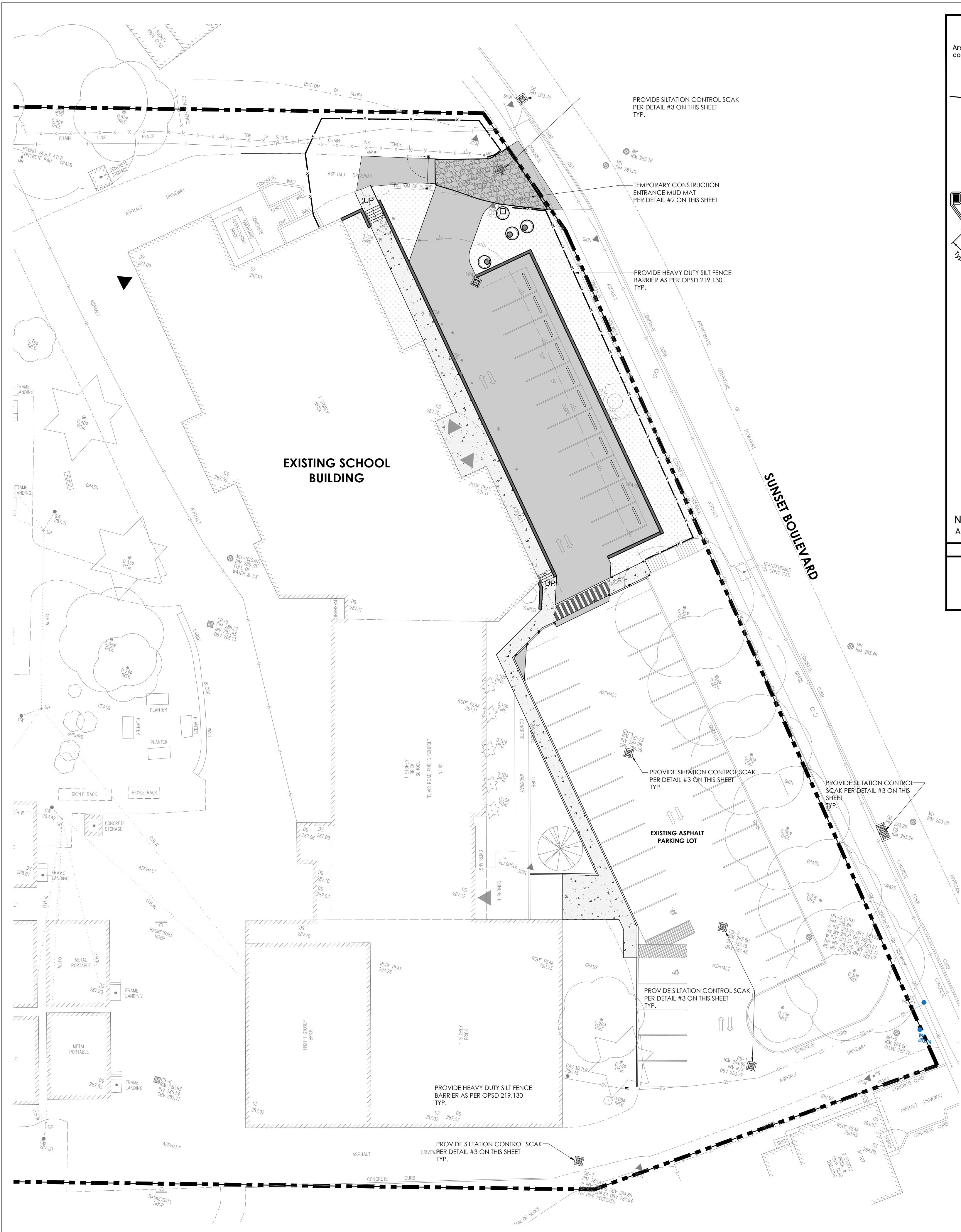
THE LOCATION OF UNDERGROUND UTILITIES SHOWN HAS BEEN LOCATED BY MARK-IT LOCATES INC. ON JANUARY 6, 2025 AND IS FOR DESIGN PURPOSES ONLY. IT IS NOT TO BE USED AS A SUBSTITUTE FOR NEW LOCATES PRIOR TO EXCAVATION, AND IS CERTIFIED BY MARK-IT LOCATES INC ONLY. ANY DISCREPANCIES ARE TO BE REPORTED. READ WITH CORRESPONDING LOCATE REPORT.

THE FIELDWORK WAS COMPLETED DURING HEAVY SNOW CONDITIONS AND EVERY ATTEMPT HAS BEEN MADE TO ACCURATELY CAPTURE ALL RELEVANT TOPOGRAPHIC DETAILS, ANY OMISSIONS SHOULD BE REPORTED TO THE UNDERSIGNED.



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NO.	ISSUED	DATE	BY

C2.00



1 SEDIMENT & EROSION CONTROL PLAN
C3.00 SCALE: 1:250

Area under construction

Flow

End run

Barrier main run

Area under protection

Watercourse

PERSPECTIVE VIEW

4m end-run

1m typ

2m max

Main run 40m max

Direction of flow

PLAN

Control measure support

Geotextile

300mm min of geotextile in trench

Trench shall be backfilled and compacted

Stake

Original ground

200

400

900mm min

SECTION A-A

JOINT DETAIL

NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

Nov 2021

Rev 3

HEAVY-DUTY SILT FENCE BARRIER

OPSD 219.130

LEGEND - SITE GRADING

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD/GENERIC LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

REFER	DESCRIPTION
---	PROPERTY LINE
▨	EXISTING BUILDING
▨	PROPOSED ASPHALT
▨	PROPOSED CONCRETE
▨	PROPOSED SOD
+XXX.XX	EXISTING ELEVATION
+ [XXX.XX]	PROPOSED ELEVATION
CB	PROPOSED CATCH BASIN
CBMH	PROPOSED CATCH BASIN MANHOLE
BTMMH	PROPOSED STORM MANHOLE

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

SITE PLAN

PLAN OF TOPOGRAPHICAL SURVEY OF
BLAIR ROAD PUBLIC SCHOOL
BEING HP 65 SUNSET BOULEVARD,
CITY OF CAMBRIDGE
REGIONAL MUNICIPALITY OF WATERLOO

INFORMATION ON THIS SITE PLAN
TAKEN FROM SURVEY / TOPOGRAPHY
PREPARED BY:

GENESIS LAND SURVEYING INC.
10 FOUR SEASONS PLACE
10TH FLOOR TORONTO, M9B 6H7
T 905-499-2956 - T 1800-262-9784

THE SURVEY WAS COMPLETED ON DECEMBER 30, 2024

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF CAMBRIDGE BENCHMARK N° 0019663308 WITH A PUBLISHED ELEVATION OF 300.480 METRES [CGVD-1928(POST-1978)].

UTILITY NOTE

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SNOW NOTE

THE FIELDWORK WAS COMPLETED DURING HEAVY SNOW CONDITIONS AND EVERY ATTEMPT HAS BEEN MADE TO ACCURATELY CAPTURE ALL RELEVANT TOPOGRAPHIC DETAILS. ANY OMISSIONS SHOULD BE REPORTED TO THE UNDERSIGNED.

HARD SURFACE PUBLIC ROAD

WASHRACK MAY BE REQUIRED. SIZING AND DESIGN AS PER MUNICIPAL SPECIFICATIONS. DRAIN TO A SEDIMENT TRAP/BASIN.

450mm MINIMUM THICK UNDERLAIN WITH GEOTEXTILE

20m OF 50mm CLEAR STONE

100mm OR FILL WITH OF ENTRANCE

NOTES

- DIMENSIONS HAVE BEEN MODIFIED TO SUIT SITE CONDITIONS
- ALL EROSION AND SILTATION CONTROL DEVICES SHOULD BE AS PER LOCAL AUTHORITY HAVING JURISDICTION.

2 TYP MUD MAD DETAIL
C3.00 SCALE: N.T.S.

SIDE VIEW INSTALLED

EXPANSION RESTRAINT

INSTALLATION DETAIL

1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED)

OPTIONAL OVERFLOW

SILTSACK

DUMP LOOPS (REBAR NOT INCLUDED)

GRATE

CURB OPENING

FOAM

DEPTH = D

LENGTH = L

WIDTH = W

3 TYP SILT TRAP DETAIL
C0.00 SCALE: N.T.S.

TRUE NORTH

CONSTRUCTION NORTH

MANTECON PARTNERS

STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEERS

15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905) 648-0373
www.manteconpartners.com

SEAL

REGISTERED PROFESSIONAL ENGINEER
Y.M. TARAKY
100035303
2025-06-09
PROVINCE OF ONTARIO

REVIEW ALL DRAWINGS AND VERIFY ALL DIMENSIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY CONSTRUCTION OR SHOP FABRICATION. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF "MANTECON PARTNERS" AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

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WORKSHOP

CLIENT:

BLAIR ROAD PUBLIC SCHOOL

PROJECT:

BLAIR ROAD PUBLIC SCHOOL
PARKING LOT EXPANSION

85 SUNSET BLVD, CAMBRIDGE
ONTARIO, N1S 1A9

DRAWING TITLE:

SEDIMENT & EROSION
CONTROL PLAN

DRAWN BY:
A.A.

CHECKED BY:
Y.T.

DATE:
2025-02-25

PROJECT NUMBER:
25-013

SCALE:
AS NOTED

DRAWING NUMBER:
C3.00

June 09, 2025 - 01:05pm Plotted by: aabuwarda

25-007300 Page 12 of 12