

## 1 ADDENDUM #5

**ALL CLAUSES SET FORTH IN THE BIDDING DOCUMENTS, CONTRACT DOCUMENTS AND GENERAL REQUIREMENTS OF THE ORIGINAL CONTRACT DOCUMENTS SHALL APPLY TO AND GOVERN THIS WORK. THE ADDENDUM REFERS TO CHANGES AND ADDITIONS TO THE ORIGINAL CONTRACT DOCUMENTS AND IS TO BE READ IN CONJUNCTION WITH THE SAME. ALL OTHER PARTS OF THE ORIGINAL CONTRACT DOCUMENTS ARE TO BE CONSIDERED AS APPLYING TO THE WORK OF THIS CONTRACT WITH THE EXCEPTIONS AND CHANGES AS NOTED BELOW.**

### 1.1 ADDENDA

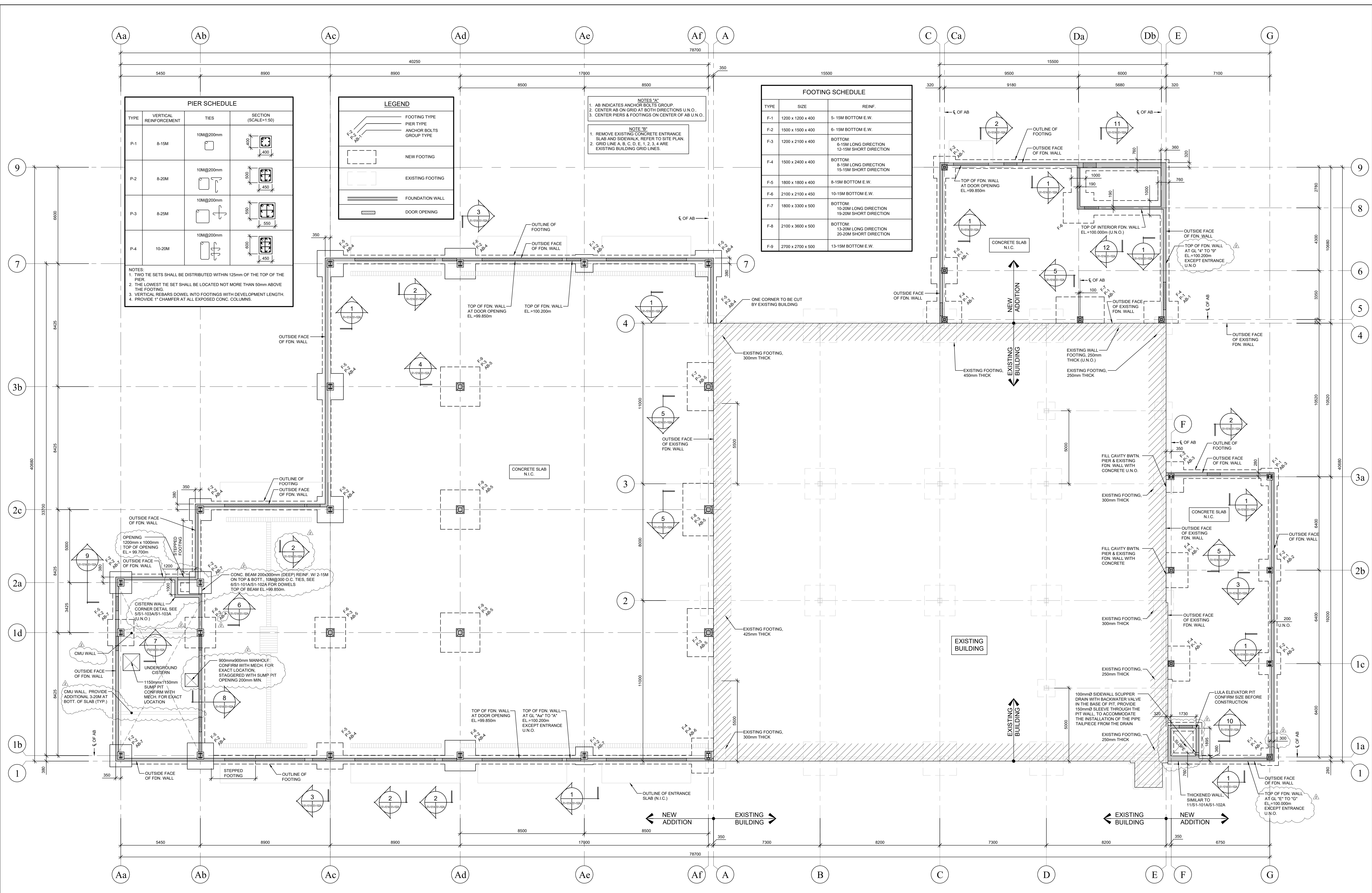
- .1 Reference Addendum #2 - Drawing Item 1.3.1.1  
Drawing S1-101A R1 Foundation Plan:
    - .1 Delete Drawing S1-101A R1 as issued via Addendum #2 and replace with revised version S1-101A R2, dated November 29, 2021, attached and forming part of this addendum.
  
  - .2 Reference Addendum #2 - Drawing Item 1.3.2.1  
Drawing S1-101B R1 - Foundation Plan, Sections, Details & Notes:
    - .1 Delete Drawing S1-101B R1 as issued via Addendum #2 and replace with revised version S1-101B R2, dated November 29, 2021, attached and forming part of this addendum.
  
  - .3 Reference Addendum #2 - Drawing Item 1.3.3.1  
Drawing S1-102A - Sections & Details:
    - .1 Delete Drawing S1-102A R1 as issued via Addendum #2 and replace with revised version S1-102A R2, dated November 29, 2021, attached and forming part of this addendum.
  
  - .4 Reference Addendum #2 - Drawing Item 1.3.4.1  
Drawing S1-103A R1 Details & Notes:
    - .1 Reference Detail 2/S1-103A/S1-103A:
      - .1 Delete wording: "TOP OF CONCRETE PIER EL.=100.200m" for 16mmØ rod" and replace with: "TOP OF FDN. WALL EL.=100.200m".
  
  - .5 Reference Addendum #2 - Drawing Item 1.3.5.1.1  
Drawing S1-104A - Second Level Framing Plan:
    - .1 Delete Drawing S1-104A as issued via Addendum #2 and replace with revised version S1-104A R1, dated November 29, 2021, attached and forming part of this addendum.
  
  - .6 Reference Addendum #2 - Drawing Item 1.3.5.1.2  
Drawing S1-105A Roof Framing Plan:
    - .1 Delete Drawing S1-105A as issued via Addendum #2 and replace with revised version S1-105A R1, dated November 29, 2021, attached and forming part of this addendum.
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- .7 Reference Addendum #2 - Drawing Item 1.3.5.1.3  
Drawing S1-106A Framing Elevation:  
.1 Delete Drawing S1-106A as issued via Addendum #2 and replace with revised version S1-106A R1, dated November 29, 2021, attached and forming part of this addendum.
- .8 Reference Addendum #2 - Drawing Item 1.3.5.1.4  
Drawing S1-107A Sections & Details:  
.1 Reference Detail 4/S1-104A/S1-107A, 4/S1-105A/S1-107A:  
.1 Revise dimension grid line "300" to "300 AT GRID LINE "G", 320 AT GRID LINE "Ca" & "Db".  
.2 Reference Detail 5/S1-104A/S1-107A, 5/S1-105A/S1-107A:  
.1 Add annotation "10mm THICK BENDED PLATE" for plate on roof, plate to be 200mm high.  
.3 Reference Detail 6/S1-104A/S1-107A:  
.1 Revise "Top OF STEEL EL.=103.600m" to "Top OF STEEL EL.=103.600~103.340m".
- .9 Reference Addendum #2 - Drawing Item 1.3.5.1.5  
Drawing S1-108A Sections & Details & Notes:  
.1 Reference Masonry Notes:  
.1 Revise rebar size "10M" on Clause 5.a. to "15M".
- .10 Reference Addendum #2 - Drawing Item 1.3.5.1.6  
Drawing S1-102B - Framing Plan, Sections & Details & Notes:  
.1 Delete Drawing S1-102B as issued via Addendum #2 and replace with revised version S1-102B R1, dated November 29, 2021, attached and forming part of this addendum.
- .11 Reference Addendum #2 - Drawing Item 1.3.5.1.7  
Drawing S1-103B Sections & Details:  
.1 Reference Detail 3/S1-103B/S1-103B:  
.1 Delete Detail 3/S1-103B/S1-103B.
- .12 Reference Addendum #2 - Drawing Item 1.3.5.1.8  
Drawing S1-101C Foundation Plan, Framing Plan, Sections, Details & Notes:  
.1 Reference Detail 1/S1-101C/S1-101C Plan-Foundation:  
.1 Revise detail number "1/S1-101C/S1-101C" to "7/S1-101C/S1-101C".  
.2 Reference Detail 2/S1-101C/S1-101C Plan-Roof Framing:  
.1 Revise detail number "2/S1-101C/S1-101C" to "8/S1-101C/S1-101C".  
.3 Reference Detail 1/S1-101C/S1-101C:  
.1 Sill plates to be double 38mm x 140mm S-P-F, pressure treated.  
.2 Revise the projection of anchor bolts "90mm PROJECTION" to "120mm PROJECTION".
- .13 Reference Addendum #2 - Drawing Item 1.3.5.1.9  
Drawing A1-003B - Notes & Assemblies  
.1 Add the following Drawing Notes:  
.1 Stair Construction (Two Stairs):  
.1 Material: all wood.  
.2 Finish: no paint.  
.3 Stringers: 3 – 38mm x 286mm.  
.4 Treads: 38mm thick material, 19mm nosing overhang from face of riser.
-

- .5 Risers: enclosed with 19mm plywood.
- .2 Guardrails:
  - .1 Material: Steel.
  - .2 Finish: primed gray.
  - .3 Height: minimum 1070 above finish floor and through stair nosing.
  - .4 Gates: provide gates as noted on Drawing A1-100B.
  - .5 Mounting: Face mount guards to side of floors and stringers with base plates and 4 bolts. Bolts 10mm diameter.
  - .6 Guard posts: 42mm diameter steel at max 1220mm centers.
  - .7 Guard Balustrades: Provide two rows of 42mm diameter steel. Industrial style steel guard rail with no kick plate per Drawing A1-200B.
  - .8 GR-1: Revise to read: Guardrail, baseplate attached to side of stringer.
  - .9 GR-2: Revise to read: Guardrail, baseplate attached to side of floor.
- .3 Handrails: refer to Drawings for information

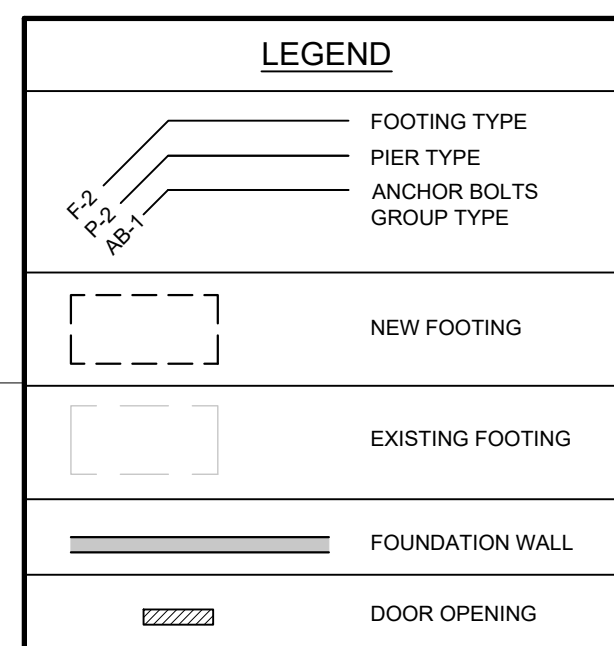
**END OF SECTION**

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PIER SCHEDULE			
TYPE	VERTICAL REINFORCEMENT	TIES	SECTION (SCALE=1:50)
P-1	8-15M	10M@200mm	
P-2	8-20M	10M@200mm	
P-3	8-25M	10M@200mm	
P-4	10-20M	10M@200mm	

FOOTING SCHEDULE		
TYPE	SIZE	REINF.
F-1	1200 x 1200 x 400	5-15M BOTTOM E.W.
F-2	1500 x 1500 x 400	6-15M BOTTOM E.W.
F-3	1200 x 2100 x 400	BOTTOM: 6-15M LONG DIRECTION 12-15M SHORT DIRECTION
F-4	1500 x 2400 x 400	BOTTOM: 8-15M LONG DIRECTION 15-15M SHORT DIRECTION
F-5	1800 x 1800 x 400	8-15M BOTTOM E.W.
F-6	2100 x 2100 x 450	10-15M BOTTOM E.W.
F-7	1800 x 3300 x 500	BOTTOM: 10-20M LONG DIRECTION 19-20M SHORT DIRECTION
F-8	2100 x 3600 x 500	BOTTOM: 13-20M LONG DIRECTION 29-20M SHORT DIRECTION
F-9	2700 x 2700 x 500	13-15M BOTTOM E.W.



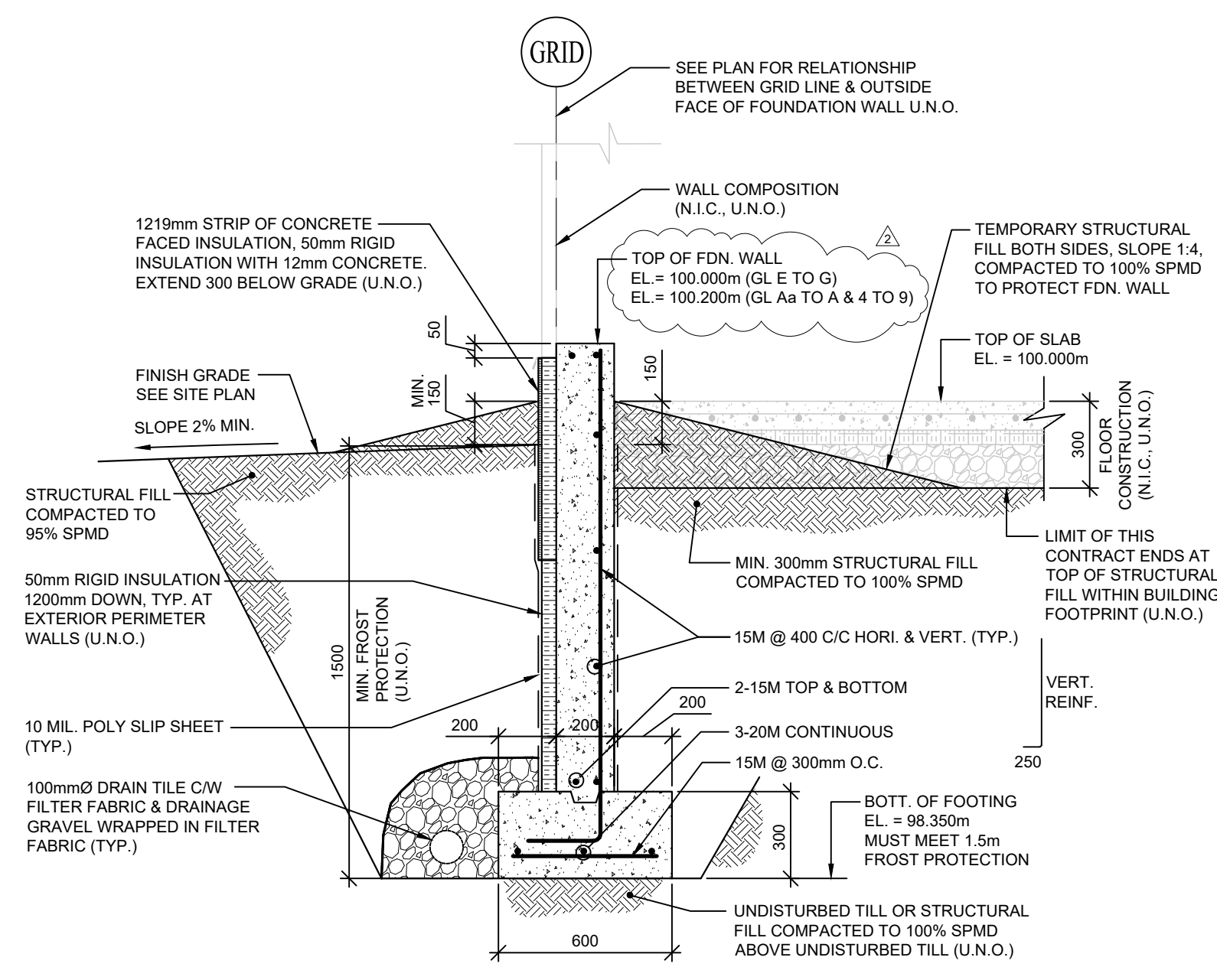
**NOTES "A"**  
 1. AB INDICATES ANCHOR BOLTS GROUP.  
 2. CENTER AB ON GRID AT BOTH DIRECTIONS U.N.O.  
 3. CENTER PIERS & FOOTINGS ON CENTER OF AB U.N.O.

**NOTE "B"**  
 1. REMOVE EXISTING CONCRETE ENTRANCE SLAB AND SIDEWALK, REFER TO SITE PLAN.  
 2. GRID LINE A, B, C, D, E, 1, 2, 3, 4 ARE EXISTING BUILDING GRID LINES.

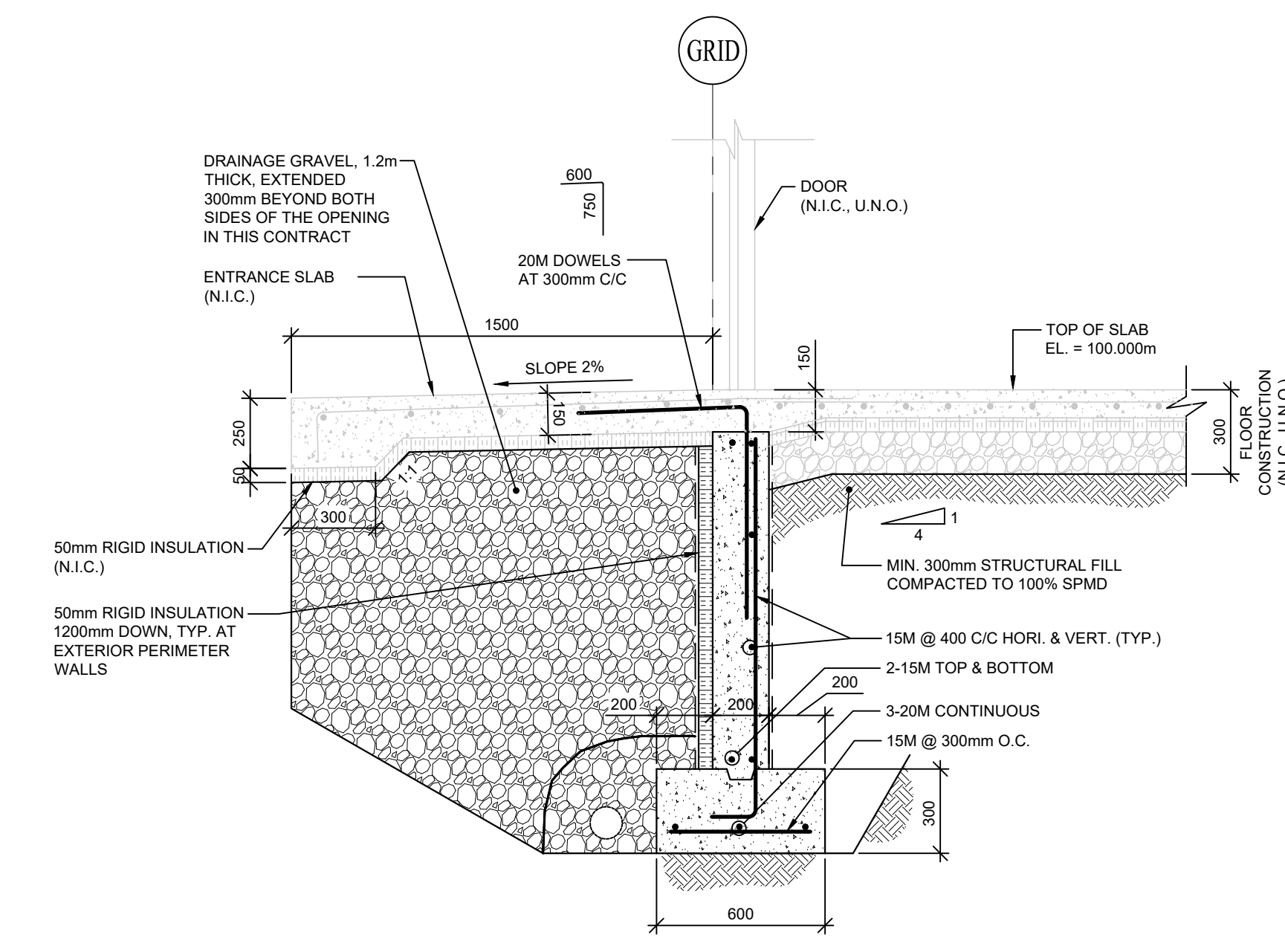
**NOTES:**  
 1. TWO TIE SETS SHALL BE DISTRIBUTED WITHIN 125mm OF THE TOP OF THE PIER.  
 2. THE LOWEST TIE SET SHALL BE LOCATED NOT MORE THAN 50mm ABOVE THE FOOTING.  
 3. VERTICAL REBARS DOWEL INTO FOOTINGS WITH DEVELOPMENT LENGTH.  
 4. PROVIDE 1" CHAMFER AT ALL EXPOSED CONC. COLUMNS.

1 PLAN - FOUNDATION  
 1:100

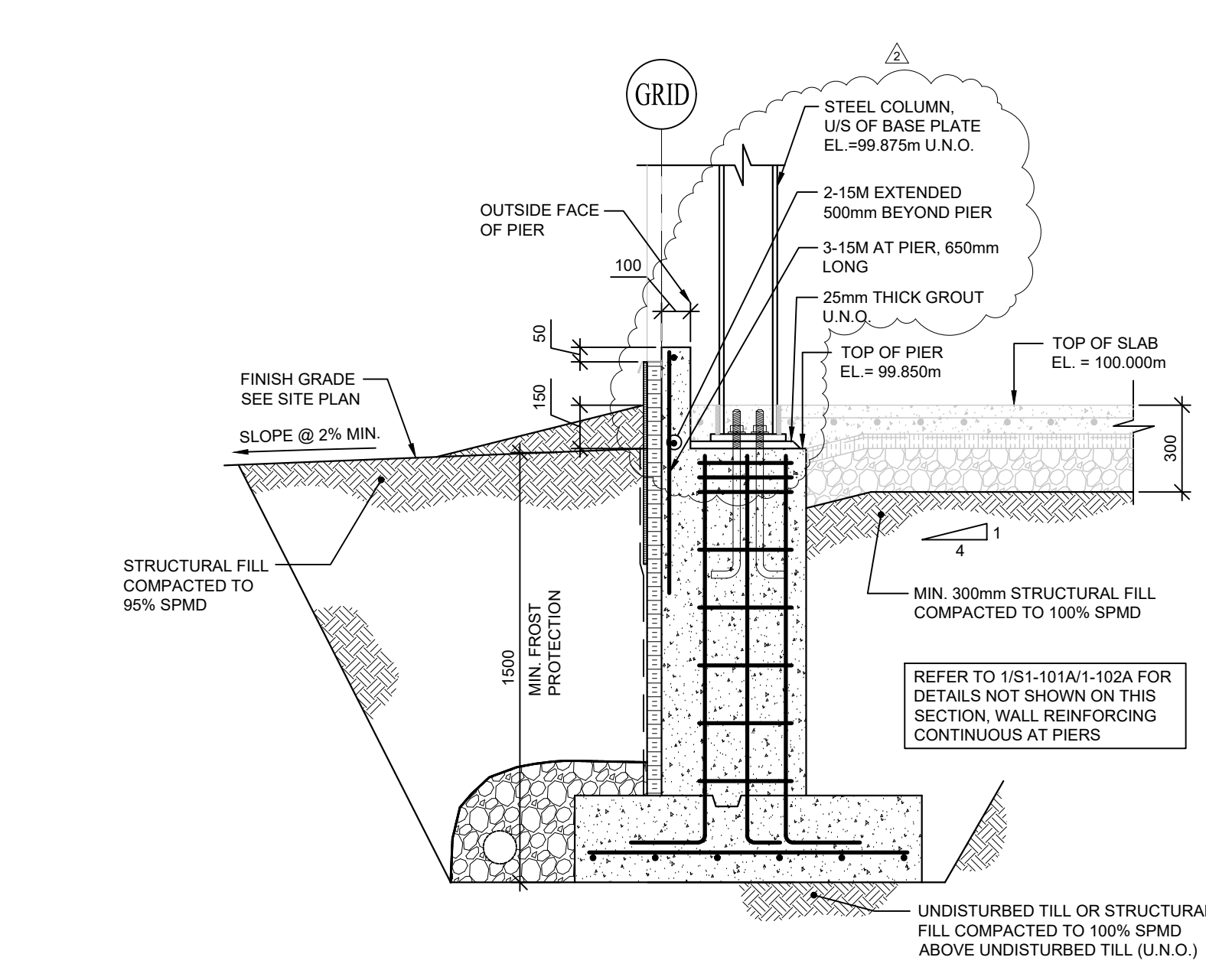
<p>Architecture + Engineering + Project Management</p> <p>Suite 201, 85 Fitzroy Street        Charlottetown, PEI, Canada, C1A 1R6        Phone (902) 368-2300        www.colesassociates.com</p>	<p>Client  <b>PEI Department of Transportation &amp; Infrastructure</b></p>	<p>Project Title  <b>KCHD Bridgetown Upgrades        Depot Building        Bridgetown, Kings County        Prince Edward Island</b></p>	<p>Sheet Title  <b>Foundation Plan</b></p>	<p>No. 0</p>	<p>Description</p>	<p>Date</p>	<p>Date: November 29, 2021</p>	<p>Revision  </p>
				<p>1</p>	<p>Issued for Tender</p>	<p>2021-Oct-07</p>	<p>Drn By: K.C.</p>	
				<p>2</p>	<p>Issued for Addendum #2</p>	<p>2021-Nov-16</p>	<p>Chk By: N.L.P. Eng.</p>	
				<p>3</p>	<p>Issued for Addendum #5</p>	<p>2021-Nov-29</p>	<p>Project Number:  <b>211120</b></p>	
							<p>Drawing Number:  <b>S1-101A R2</b></p>	



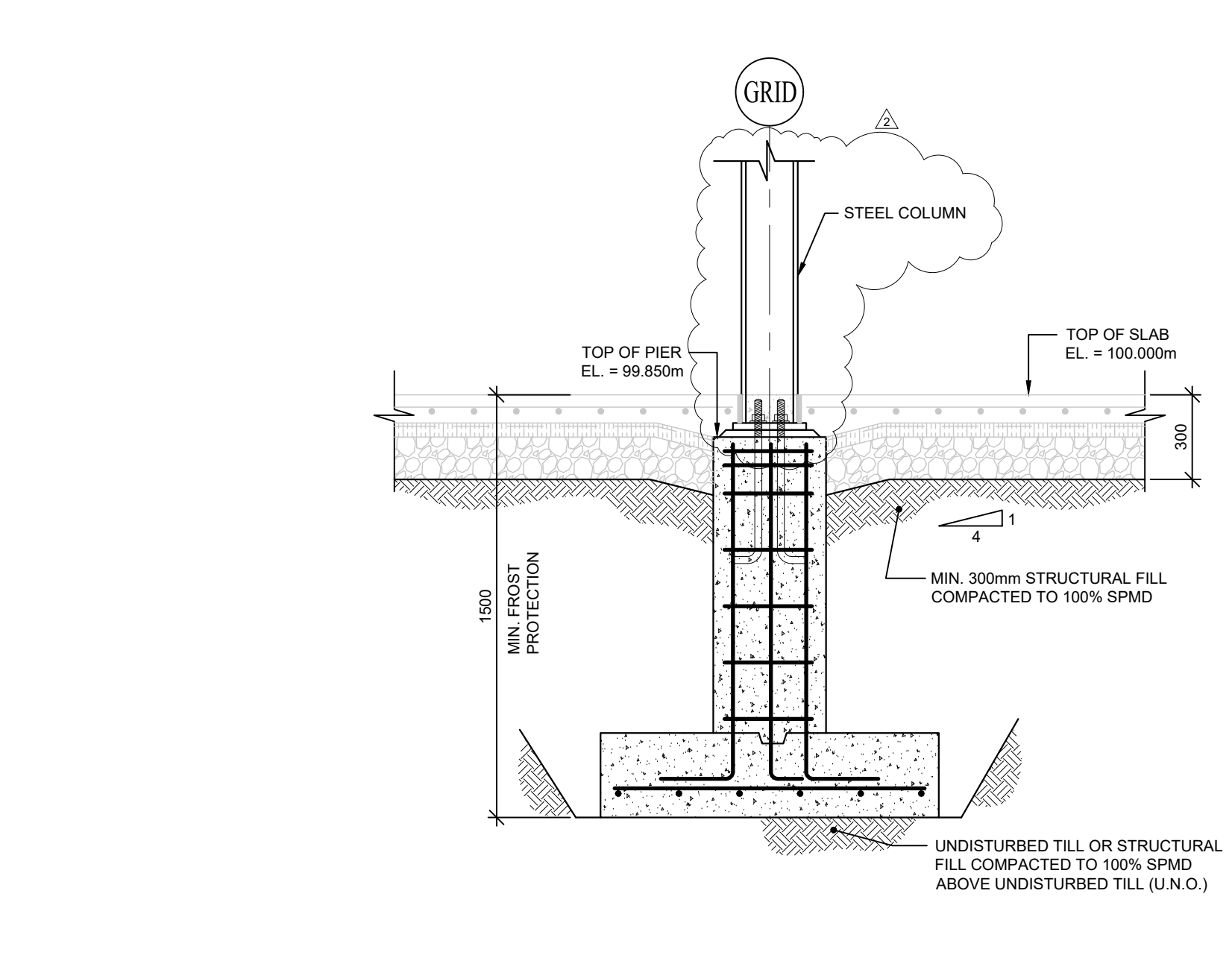
1 SECTION - EXTERIOR FOUNDATION WALL  
1:20



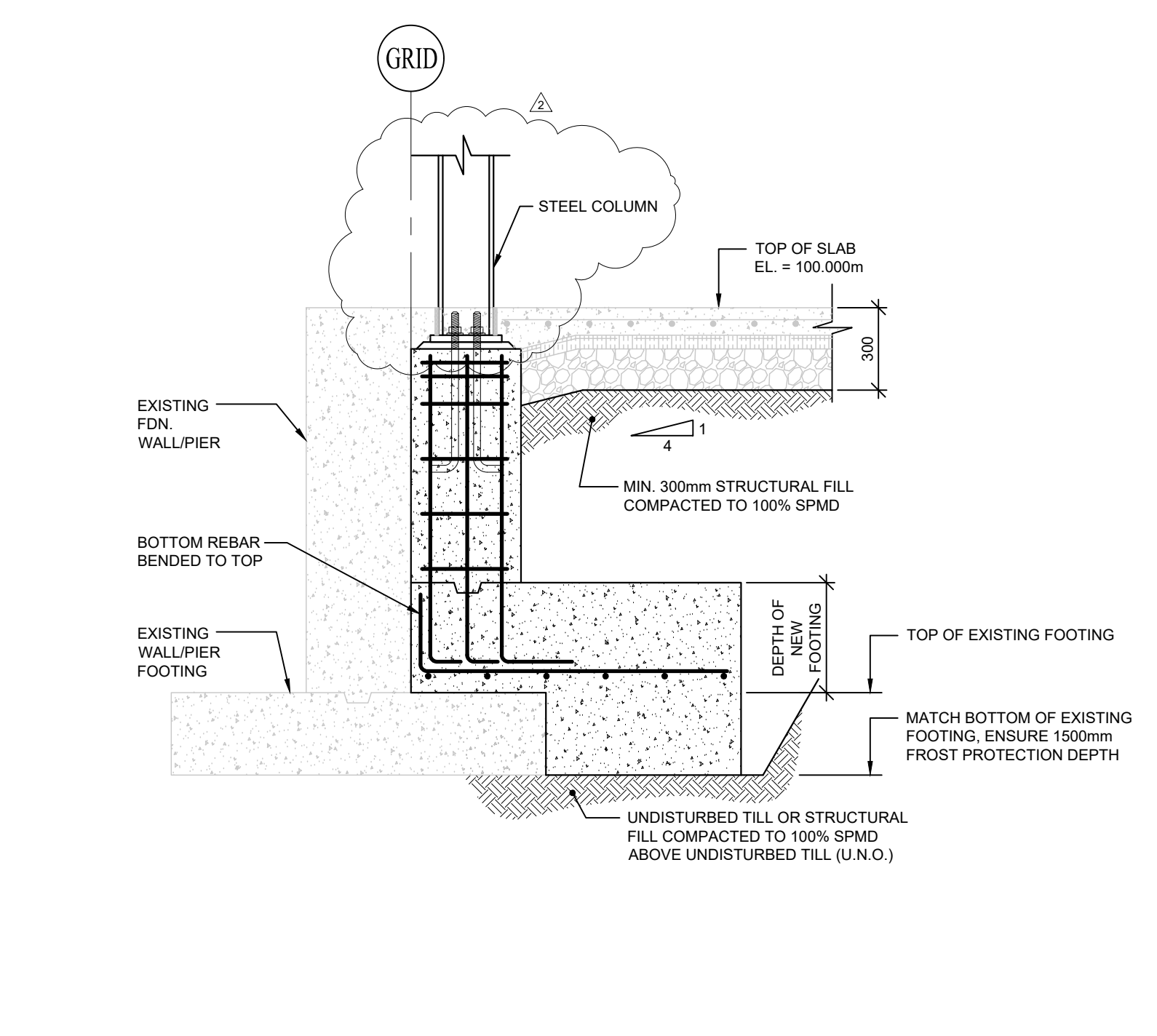
2 SECTION - ENTRANCE SLAB  
1:20



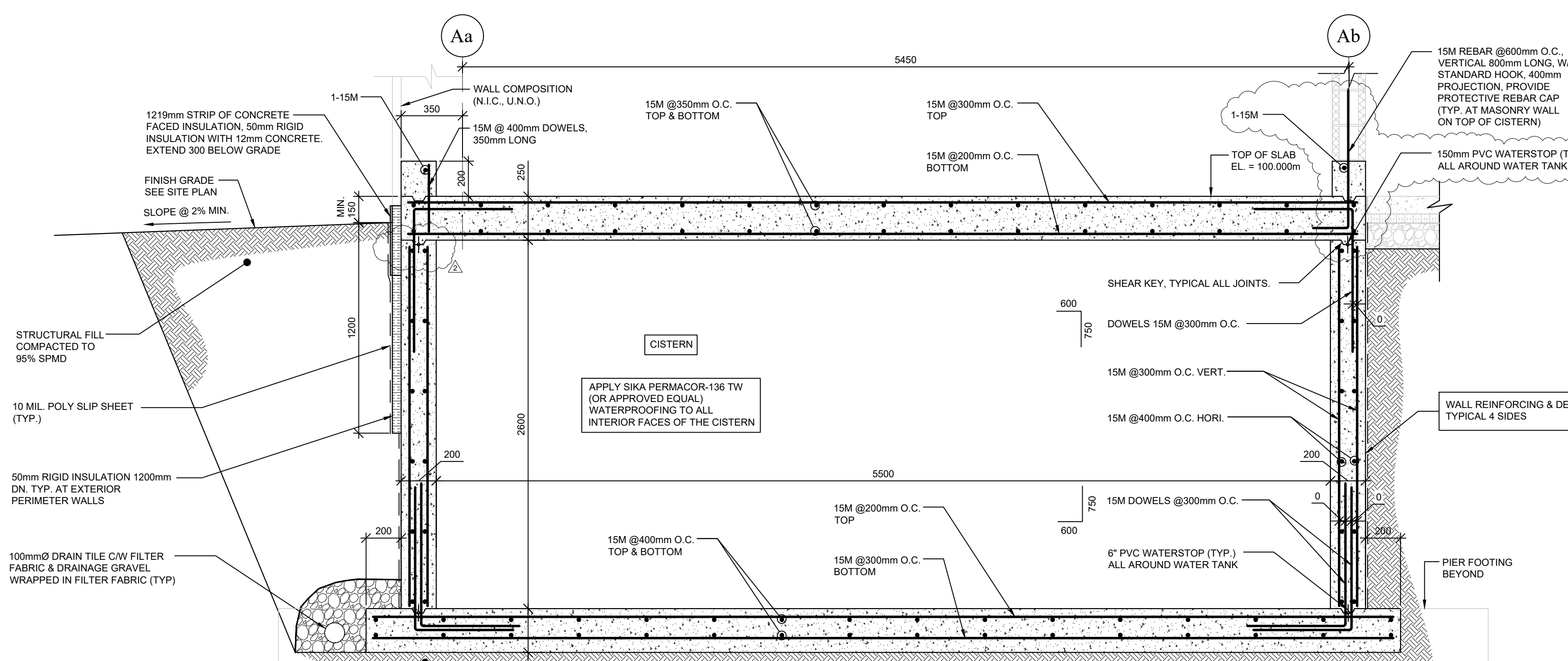
3 SECTION - EXTERIOR PIER  
1:20



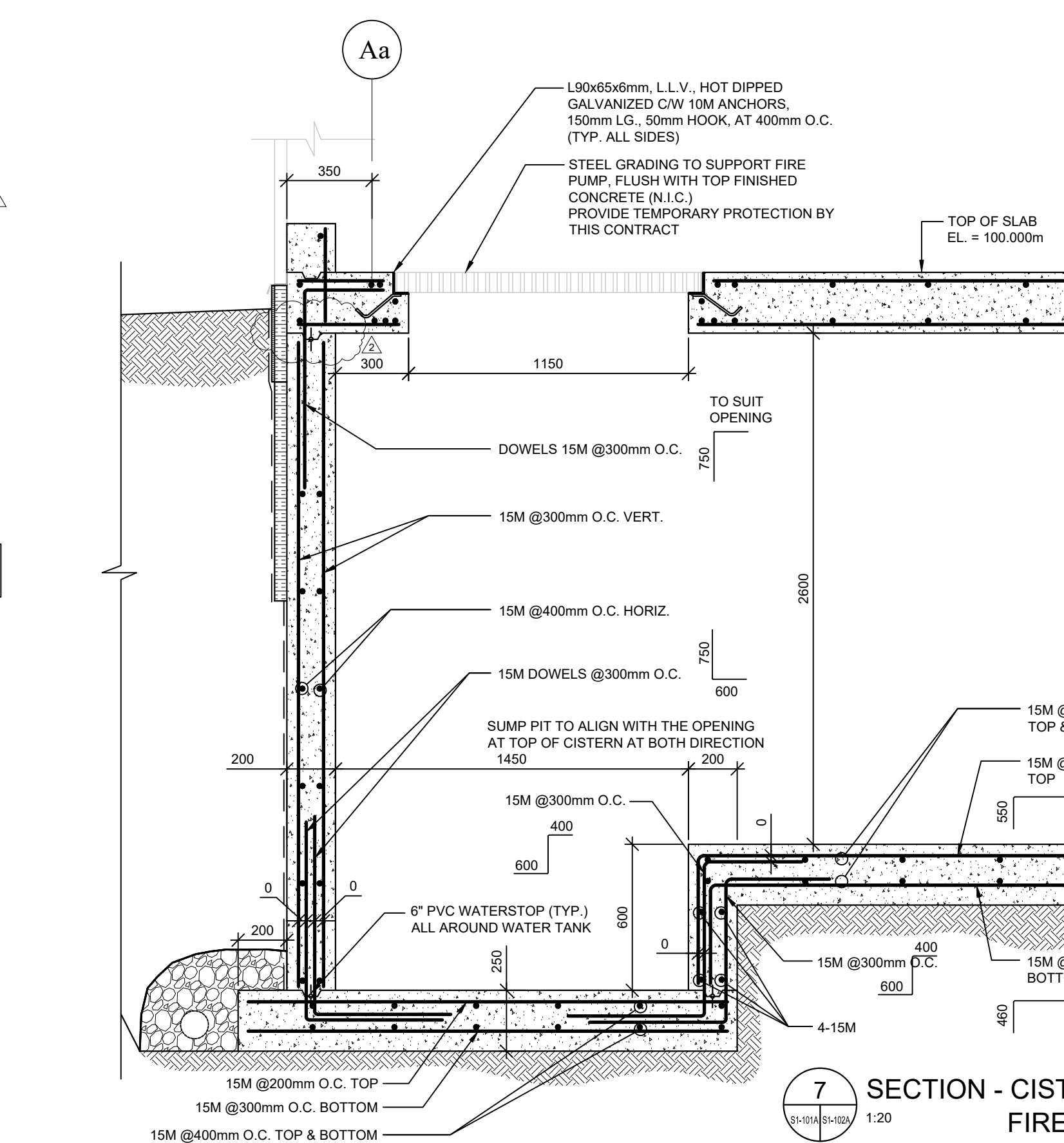
4 SECTION - INTERIOR PIER  
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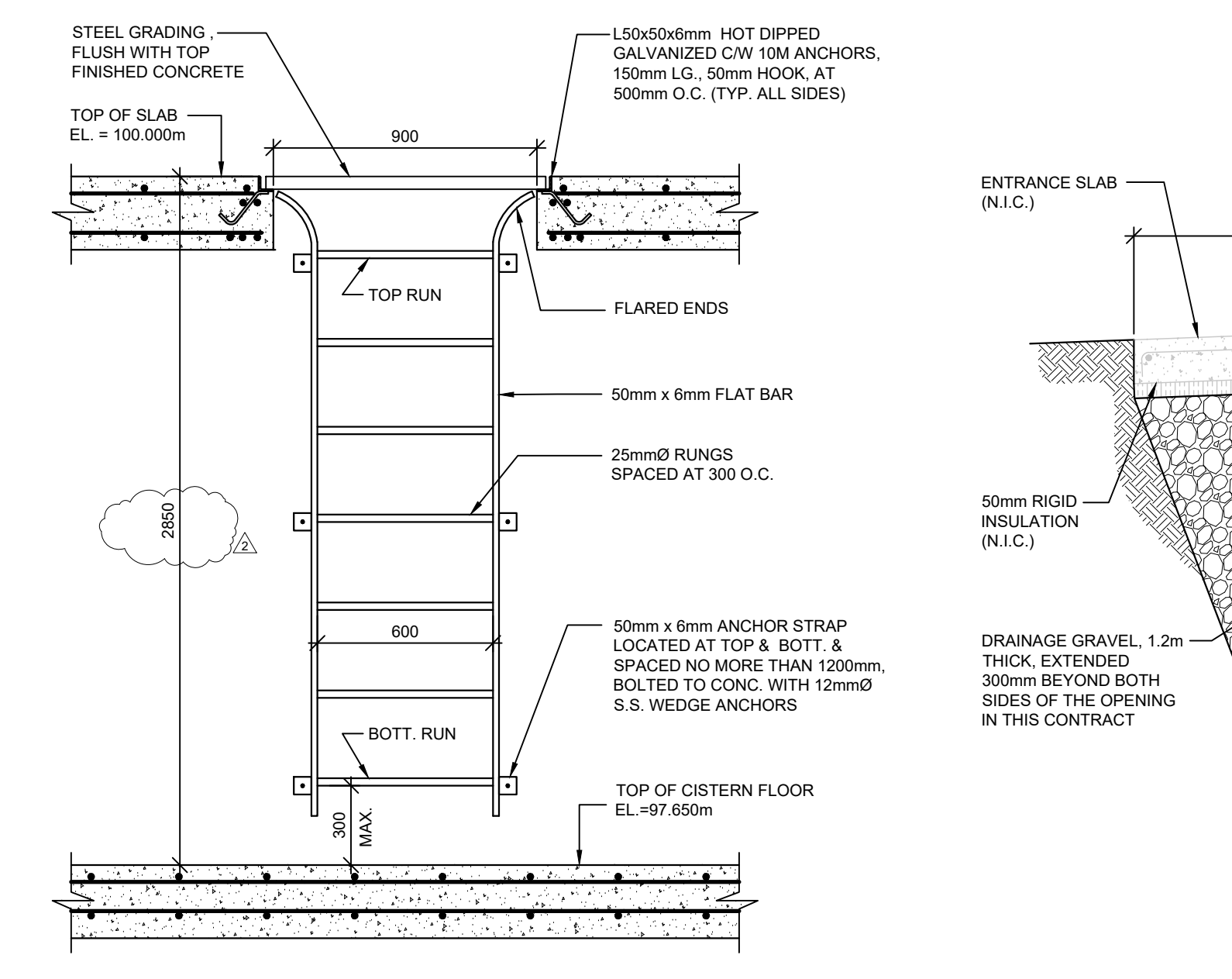
5 SECTION - NEW & EXISTING FOOTING (TYPICAL)  
1:20



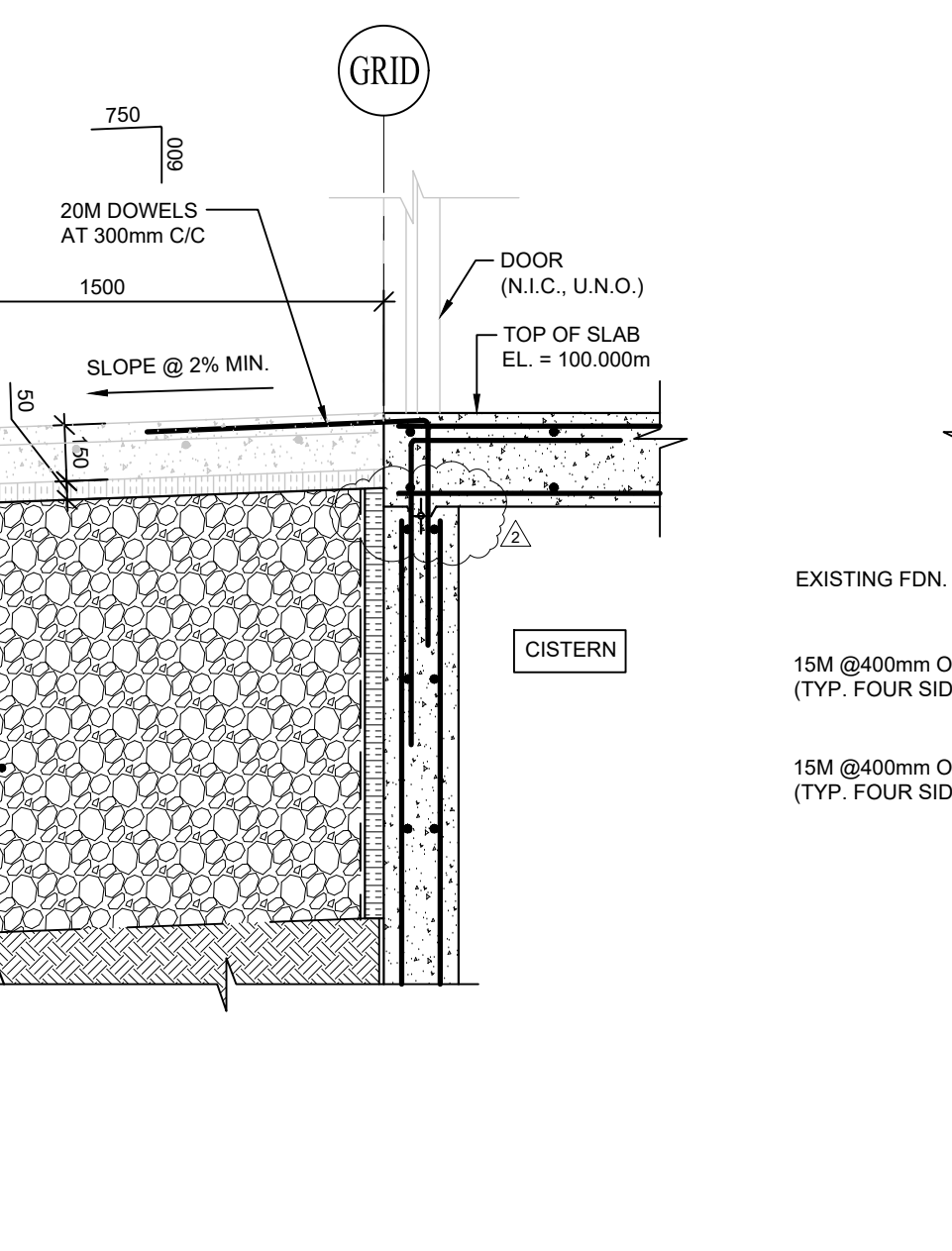
6 SECTION - CISTERN  
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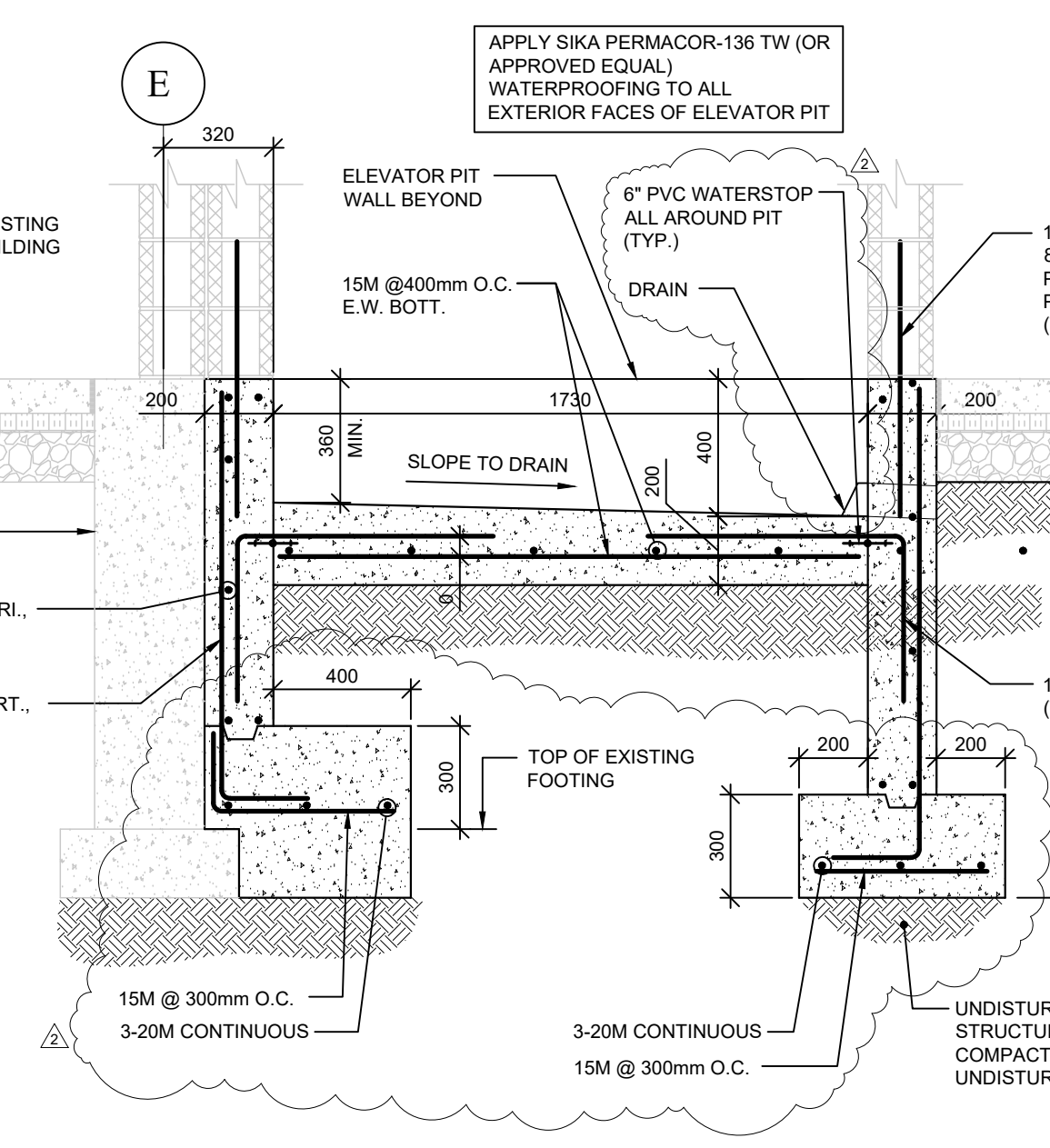
7 SECTION - CISTERN AT FIRE PUMP PIT  
1:20



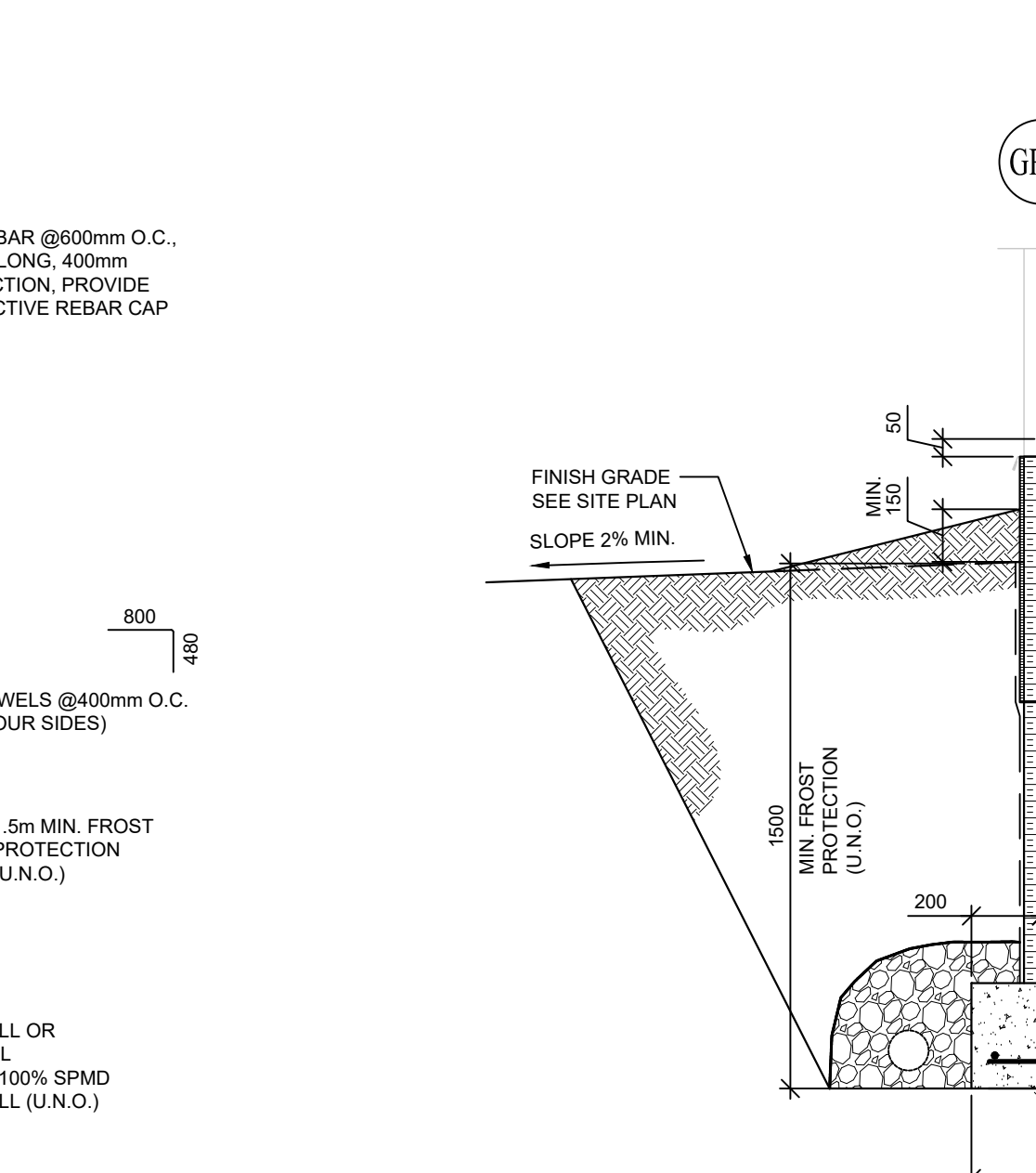
8 SECTION - CISTERN LADDER AT MANHOLE  
1:20



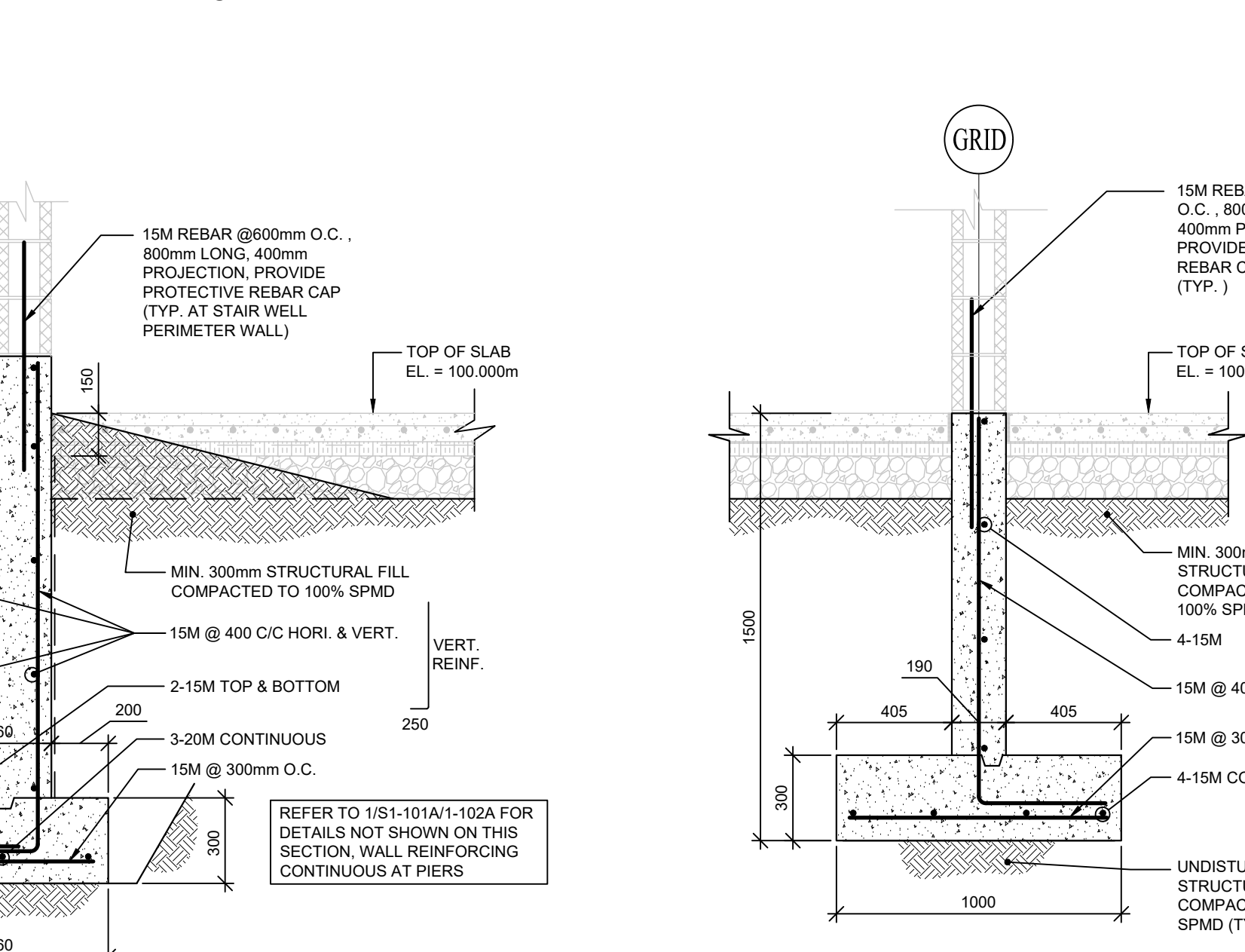
9 SECTION - ENTRANCE SLAB AT CISTERN  
1:20



10 SECTION - ELEVATOR PIT  
1:20

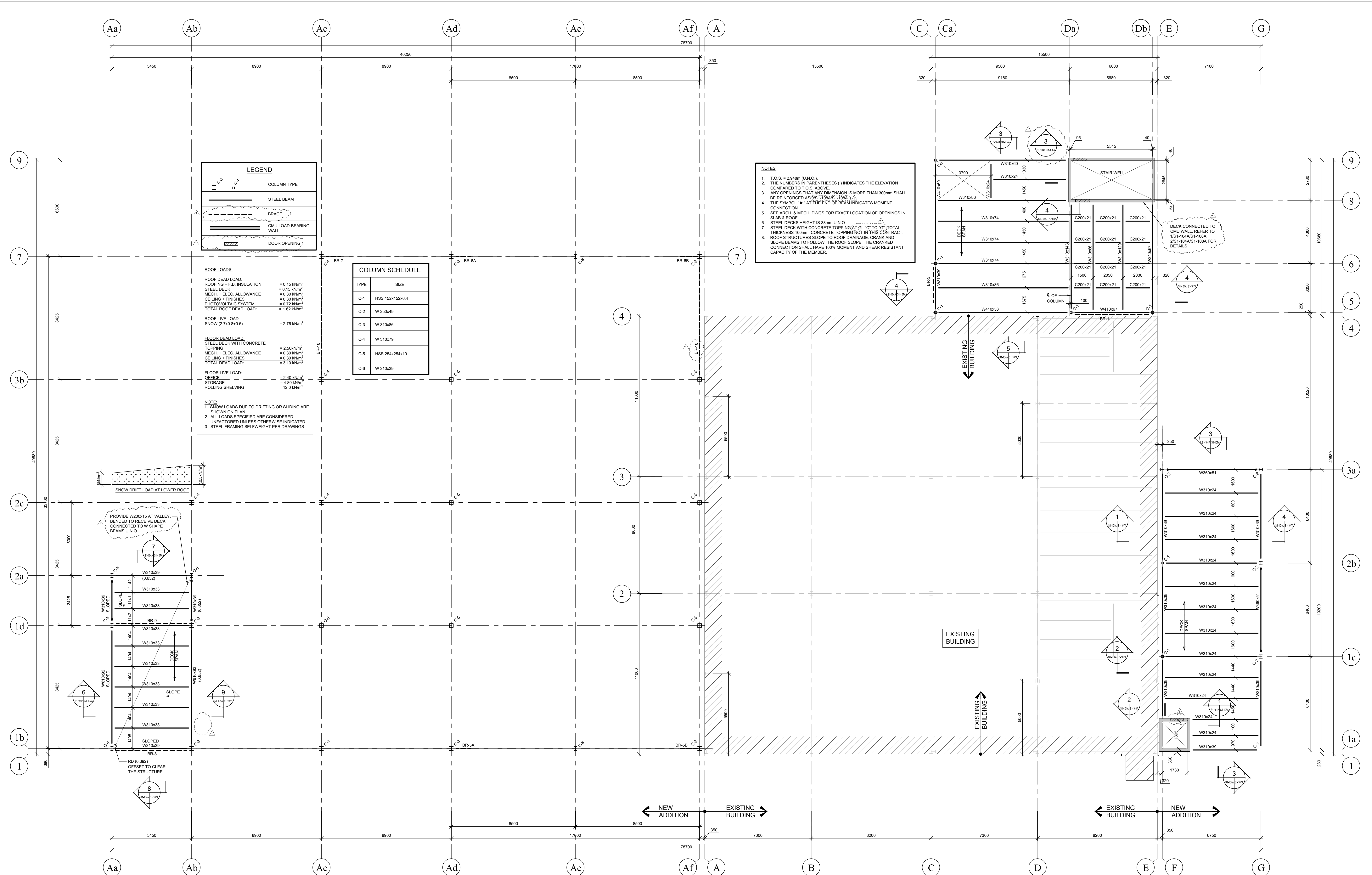


11 SECTION - EXTERIOR FOUNDATION WALL  
1:20



12 SECTION - FOOTING AT INTERIOR LOAD-BEARING WALL  
1:20

	Client	PEI Department of Transportation & Infrastructure	Project Title	KCHD Bridgetown Upgrades Depot Building, Kings County, Prince Edward Island	Sheet Title	Sections & Details	No.	Description	Date	Date:	Revision
	Client	PEI Department of Transportation & Infrastructure	Project Title	KCHD Bridgetown Upgrades Depot Building, Kings County, Prince Edward Island	Sheet Title	Sections & Details	0	Issued for Tender	2021-Oct-07	November 29, 2021	2
	Client	PEI Department of Transportation & Infrastructure	Project Title	KCHD Bridgetown Upgrades Depot Building, Kings County, Prince Edward Island	Sheet Title	Sections & Details	1	Issued for Addendum #2	2021-Nov-16	November 29, 2021	2
	Client	PEI Department of Transportation & Infrastructure	Project Title	KCHD Bridgetown Upgrades Depot Building, Kings County, Prince Edward Island	Sheet Title	Sections & Details	2	Issued for Addendum #3	2021-Nov-16	November 29, 2021	2
	Client	PEI Department of Transportation & Infrastructure	Project Title	KCHD Bridgetown Upgrades Depot Building, Kings County, Prince Edward Island	Sheet Title	Sections & Details	3	Issued for Addendum #5	2021-Nov-29	November 29, 2021	2



**LEGEND**

- Column Type
- Steel Beam
- Brace
- CMU Load-Bearing Wall
- Door Opening

**ROOF LOADS:**

- ROOF DEAD LOAD: = 0.15 kN/m<sup>2</sup>
- STEEL DECK = 0.30 kN/m<sup>2</sup>
- MECH. + ELEC. ALLOWANCE = 0.30 kN/m<sup>2</sup>
- CEILING + FINISHES = 0.30 kN/m<sup>2</sup>
- PHOTOVOLTAIC SYSTEM = 0.72 kN/m<sup>2</sup>
- TOTAL ROOF DEAD LOAD: = 1.62 kN/m<sup>2</sup>
- ROOF LIVE LOAD: = 2.76 kN/m<sup>2</sup>
- SNOW (2.76 8+0.6)

**FLOOR DEAD LOAD:**

- STEEL DECK WITH CONCRETE TOPPING = 2.50 kN/m<sup>2</sup>
- MECH. + ELEC. ALLOWANCE = 0.30 kN/m<sup>2</sup>
- CEILING + FINISHES = 0.30 kN/m<sup>2</sup>
- TOTAL DEAD LOAD: = 3.10 kN/m<sup>2</sup>

**FLOOR LIVE LOAD:**

- OFFICE = 2.40 kN/m<sup>2</sup>
- STORAGE = 4.80 kN/m<sup>2</sup>
- ROLLING SHELVING = 12.0 kN/m<sup>2</sup>

**NOTE:**

- SNOW LOADS DUE TO DRIFTING OR SLIDING ARE SHOWN ON PLAN.
- ALL LOADS SPECIFIED ARE CONSIDERED UNFACTORED UNLESS OTHERWISE INDICATED.
- STEEL FRAMING SELFWEIGHT PER DRAWINGS.

**COLUMN SCHEDULE**

TYPE	SIZE
C-1	HSS 152x152x6.4
C-2	W 250x49
C-3	W 310x86
C-4	W 310x79
C-5	HSS 254x254x10
C-6	W 310x59

**NOTES**

- T.O.S. = 2.948m (U.N.O.)
- THE NUMBERS IN PARENTHESES ( ) INDICATES THE ELEVATION COMPARED TO T.O.S. ABOVE
- ANY OPENINGS THAT ANY DIMENSION IS MORE THAN 300mm SHALL BE REINFORCED AS B/S1-108A/S1-108A
- THE SYMBOL "M" AT THE END OF BEAM INDICATES MOMENT CONNECTION
- SEE ARCH. & MECH. DWGS FOR EXACT LOCATION OF OPENINGS IN SLAB & ROOF
- STEEL DECK'S HEIGHT IS 38mm U.N.O.
- STEEL DECK WITH CONCRETE TOPPING AT "C" TO "C" TOTAL THICKNESS 100mm. CONCRETE TOPPING NOT IN THIS CONTRACT.
- ROOF STRUCTURES SLOPE TO ROOF DRAINAGE CRANK AND SLOPE BEAMS TO FOLLOW THE ROOF SLOPE, THE CRANKED CONNECTION SHALL HAVE 100% MOMENT AND SHEAR RESISTANT CAPACITY OF THE MEMBER.

1 PLAN - SECOND LEVEL FRAMING  
1:100



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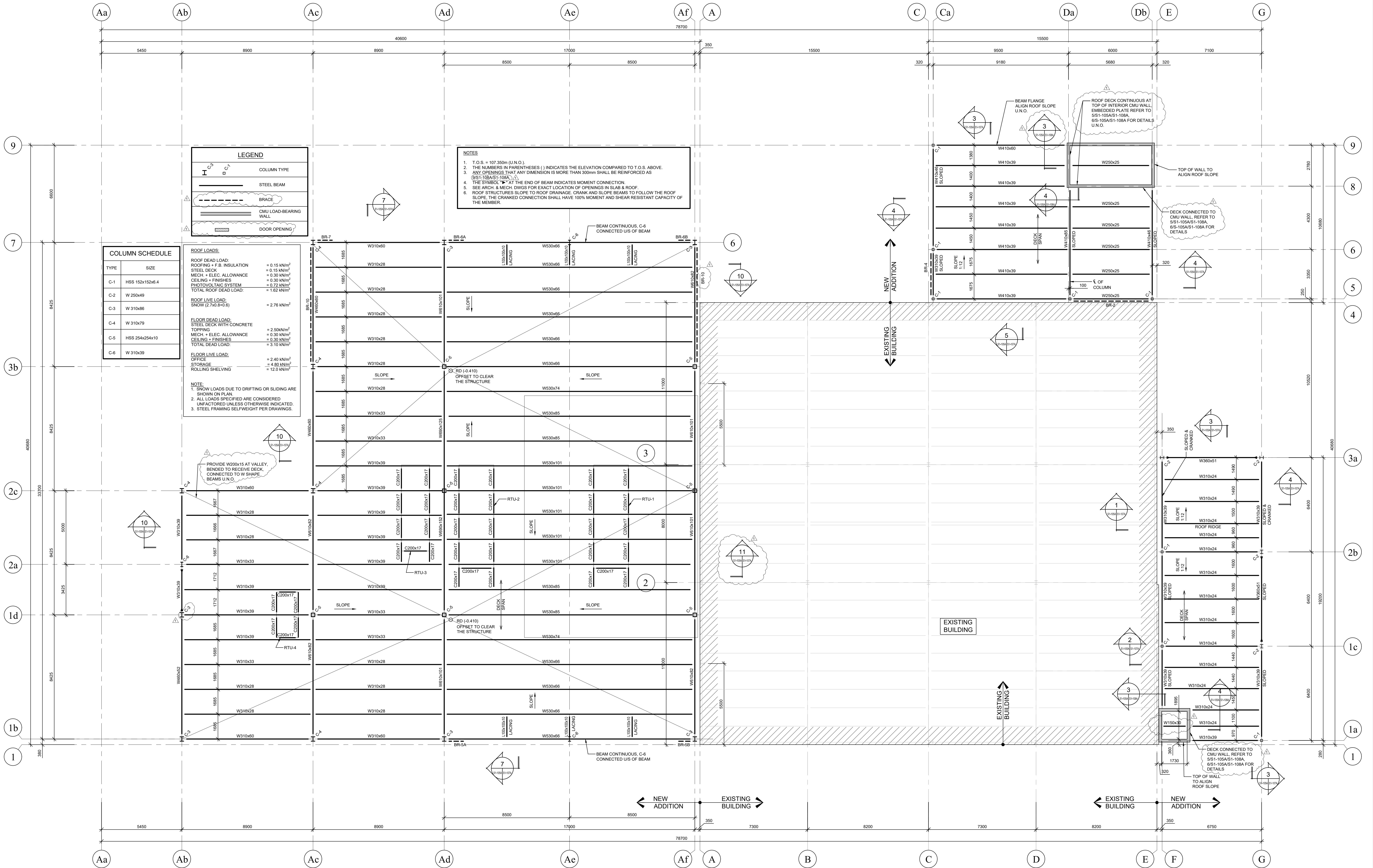
Client  
PEI Department of Transportation & Infrastructure

Project Title  
KCHD Bridgetown Upgrades  
Depot Building  
Bridgetown, Kings County  
Prince Edward Island

Sheet Title  
Second Level Framing Plan

No.	Description	Date	Date:	Revision
0	Issued for Addendum #2	2021-Nov-16	November 29, 2021	
1	Issued for Addendum #5	2021-Nov-29		1

Drn By: K.C.  
Chk By: N.L.P. Eng  
Project Number:  
211120  
Drawing Number:  
S1-104A R1



**LEGEND**

	COLUMN TYPE
	STEEL BEAM
	BRACE
	CMU LOAD-BEARING WALL
	DOOR OPENING

**COLUMN SCHEDULE**

TYPE	SIZE
C-1	HSS 152x152x6.4
C-2	W 250x49
C-3	W 310x86
C-4	W 310x79
C-5	HSS 254x254x10
C-6	W 310x39

**ROOF LOADS**

ROOF DEAD LOAD:	
ROOFING + F.B. INSULATION	= 0.15 kN/m <sup>2</sup>
STEEL DECK	= 0.15 kN/m <sup>2</sup>
MECH. + ELEC. ALLOWANCE	= 0.30 kN/m <sup>2</sup>
CEILING + FINISHES	= 0.30 kN/m <sup>2</sup>
PHOTOVOLTAIC SYSTEM	= 0.72 kN/m <sup>2</sup>
TOTAL ROOF DEAD LOAD:	= 1.62 kN/m <sup>2</sup>
ROOF LIVE LOAD:	
SNOW (2.7x0.8+0.6)	= 2.76 kN/m <sup>2</sup>
FLOOR DEAD LOAD:	
STEEL DECK WITH CONCRETE TOPPING	= 2.50 kN/m <sup>2</sup>
MECH. + ELEC. ALLOWANCE	= 0.30 kN/m <sup>2</sup>
CEILING + FINISHES	= 0.30 kN/m <sup>2</sup>
TOTAL DEAD LOAD:	= 3.10 kN/m <sup>2</sup>
FLOOR LIVE LOAD:	
OFFICE	= 2.40 kN/m <sup>2</sup>
STORAGE	= 4.80 kN/m <sup>2</sup>
ROLLING SHELVING	= 12.0 kN/m <sup>2</sup>

**NOTES**

- T.O.S. = 107.350m (U.N.O.)
- THE NUMBERS IN PARENTHESES ( ) INDICATES THE ELEVATION COMPARED TO T.O.S. ABOVE.
- ANY OPENINGS THAT ANY DIMENSION IS MORE THAN 300mm SHALL BE REINFORCED AS (S1-105A/S1-108A).
- THE SYMBOL "M" AT THE END OF BEAM INDICATES MOMENT CONNECTION.
- SEE ARCH. & MECH. DWGS FOR EXACT LOCATION OF OPENINGS IN SLAB & ROOF.
- ROOF STRUCTURES SLOPE TO ROOF DRAINAGE. CRANK AND SLOPE BEAMS TO FOLLOW THE ROOF SLOPE. THE CRANKED CONNECTION SHALL HAVE 100% MOMENT AND SHEAR RESISTANT CAPACITY OF THE MEMBER.

**NOTE**

- SNOW LOADS DUE TO DRIFTING OR SLIDING ARE SHOWN ON PLAN.
- ALL LOADS SPECIFIED ARE CONSIDERED UNFACTORED UNLESS OTHERWISE INDICATED.
- STEEL FRAMING SELFWEIGHT PER DRAWINGS.

1 PLAN - ROOF FRAMING  
1:100

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Client  
**PEI Department of Transportation & Infrastructure**

Project Title  
**KCHD Bridgetown Upgrades  
Depot Building  
Bridgetown, Kings County  
Prince Edward Island**

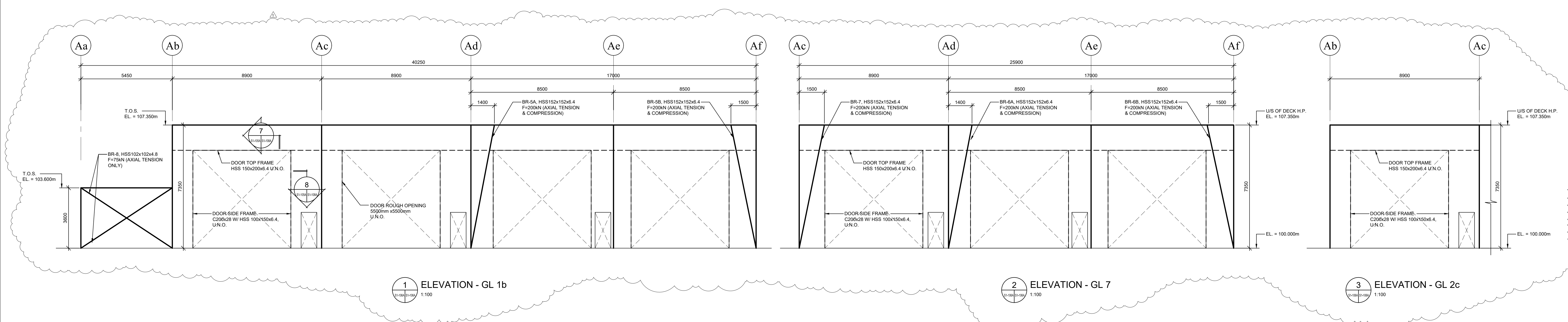
Sheet Title  
**Roof Framing Plan**

No.	Description	Date	Date:	Revision
0	Issued for Addendum #2	2021-Nov-16	November 29, 2021	
1	Issued for Addendum #5	2021-Nov-29		1

Project Number:  
**211120**

Drawing Number:  
**S1-105A R1**

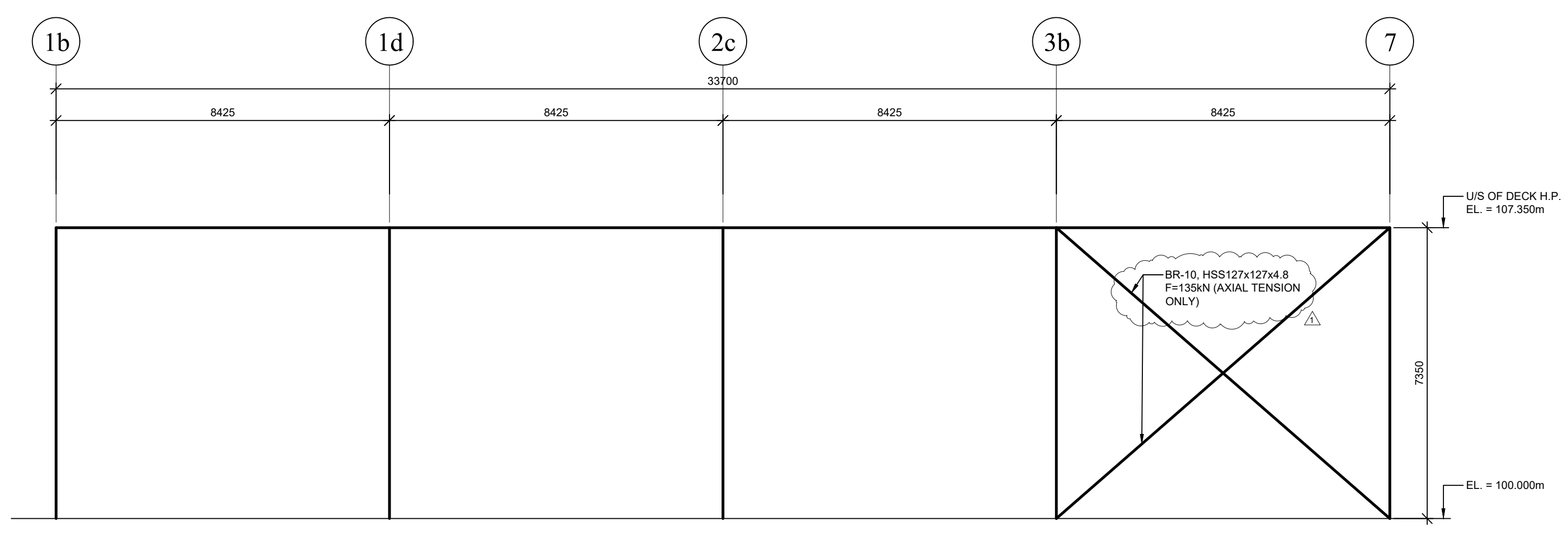




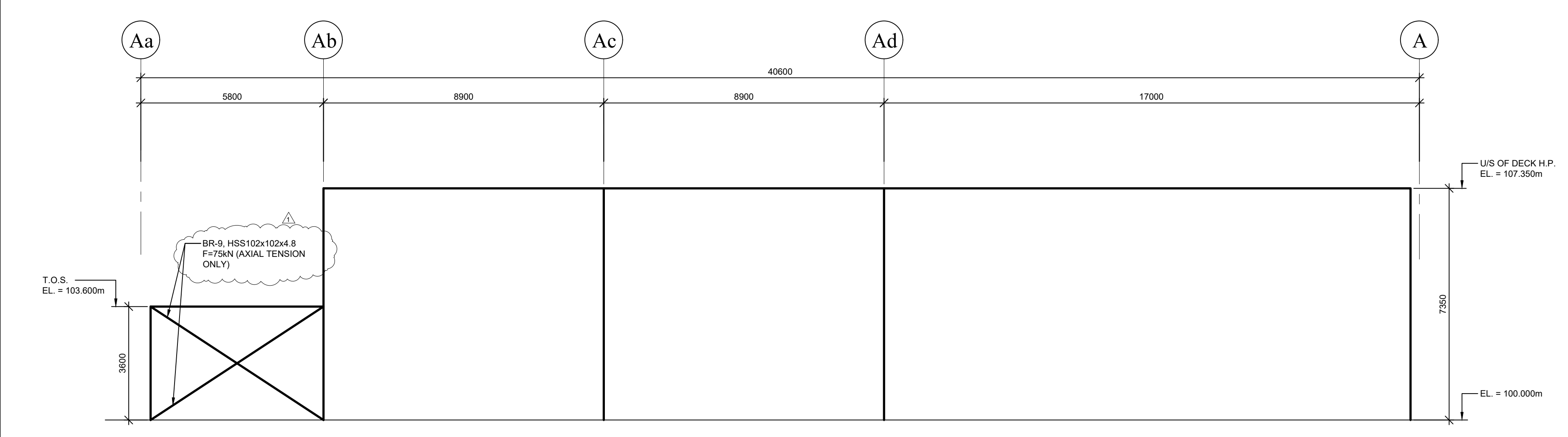
1 ELEVATION - GL 1b  
1:100

2 ELEVATION - GL 7  
1:100

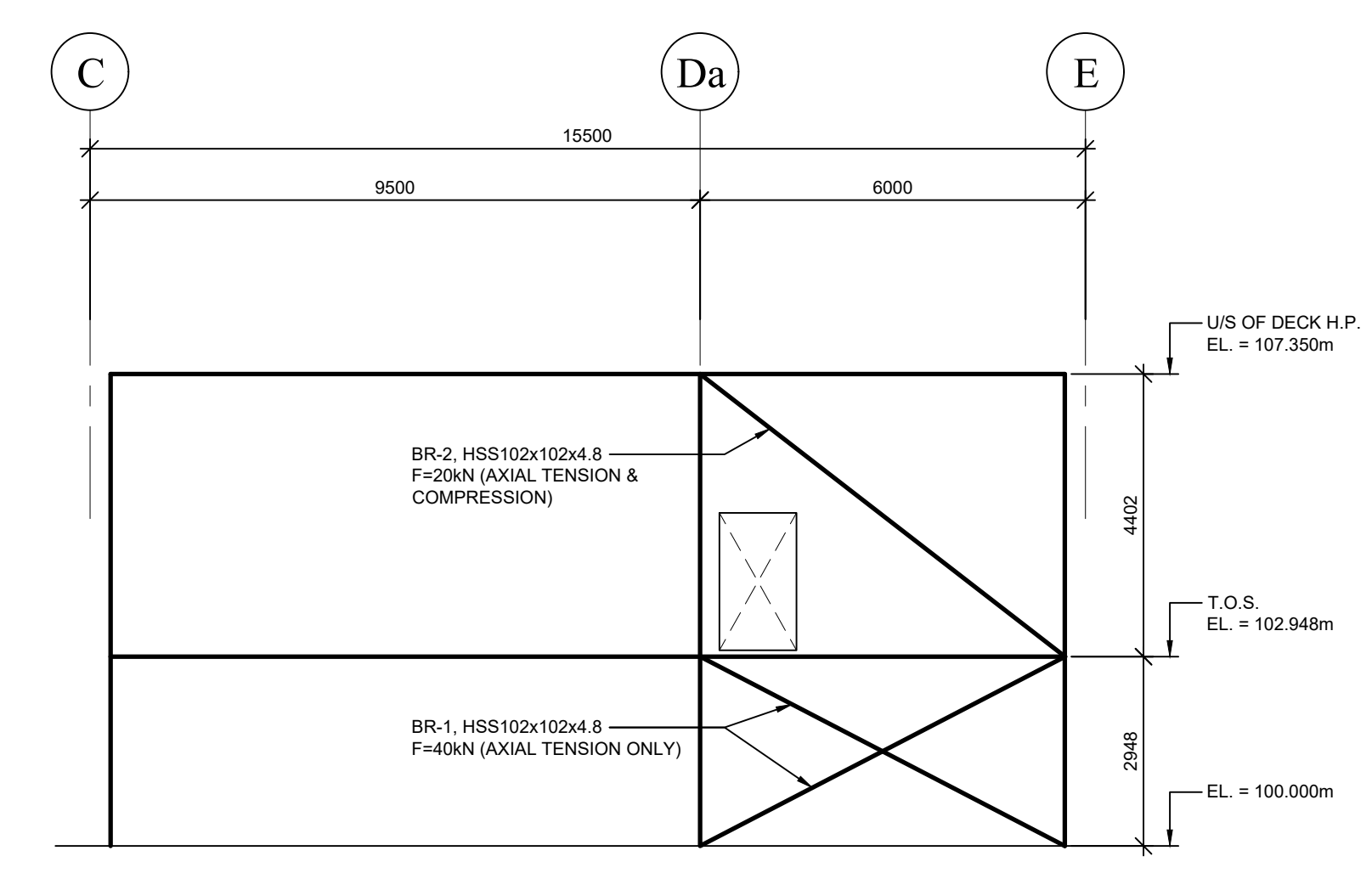
3 ELEVATION - GL 2c  
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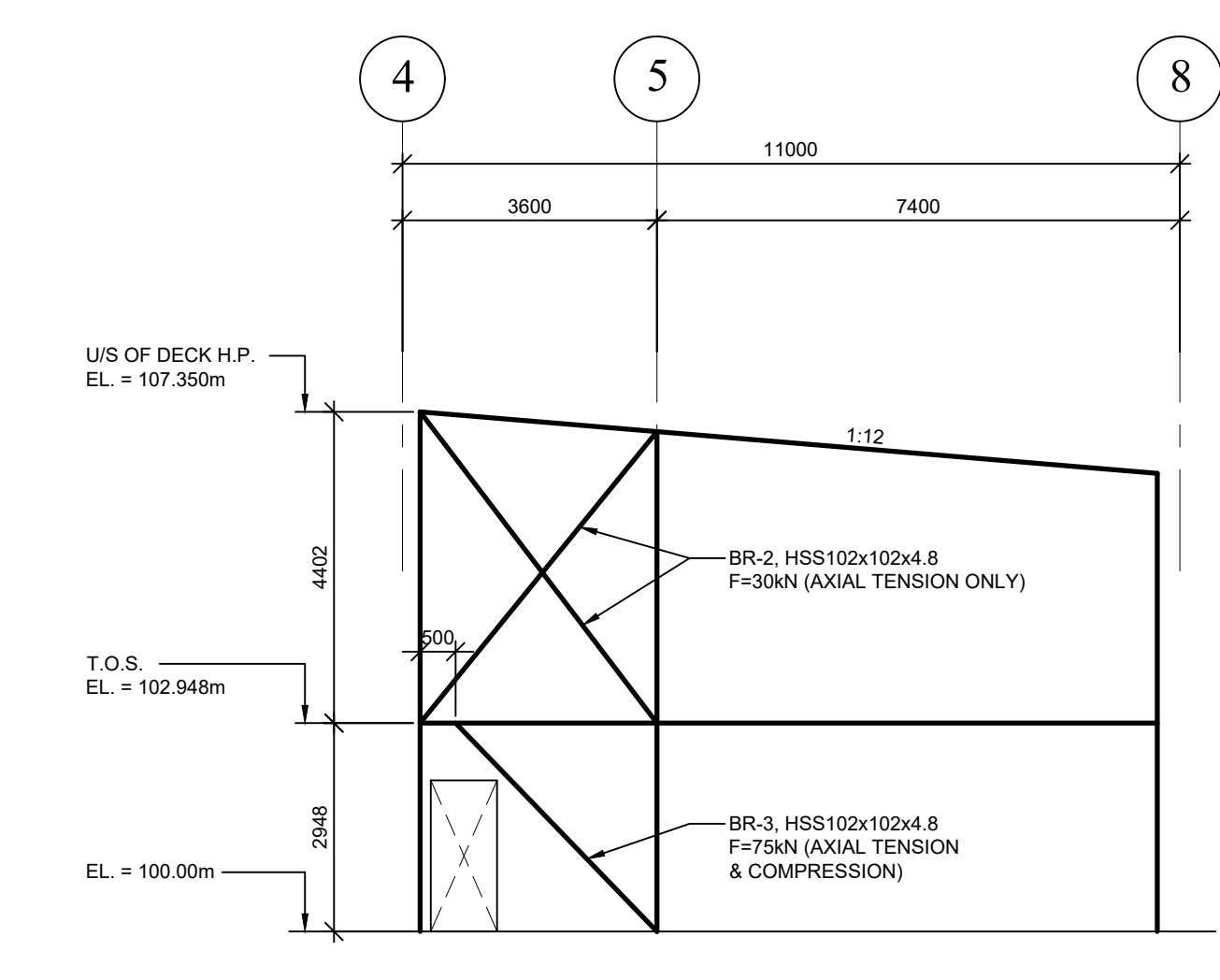
4 ELEVATION - GL Ac & Af  
1:100



6 ELEVATION - GL 1d  
1:100



7 ELEVATION - GL 5  
1:100



8 ELEVATION - GL Ca  
1:100

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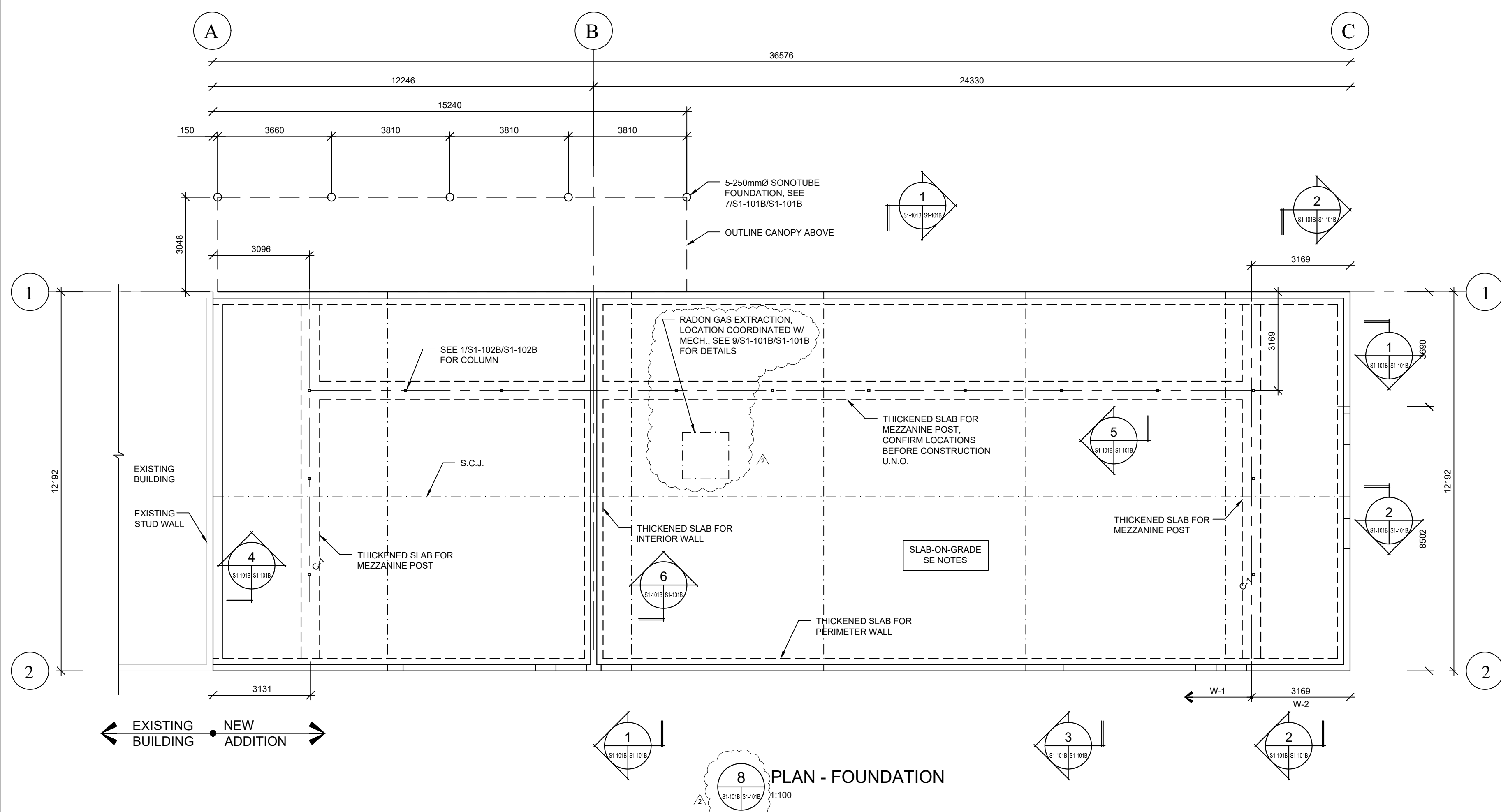
Client  
PEI Department of Transportation & Infrastructure

Project Title  
KCHD Bridgetown Upgrades  
Depot Building  
Bridgetown, Kings County  
Prince Edward Island

Sheet Title  
Framing Elevation

No.	Description	Date
0	Issued for Addendum #2	2021-Nov-16
1	Issued for Addendum #2	2021-Nov-29

Date:	November 29, 2021
Drawn By:	K.C.
Checked By:	N.L.P. Eng.
Project Number:	211120
Drawing Number:	S1-106A R1



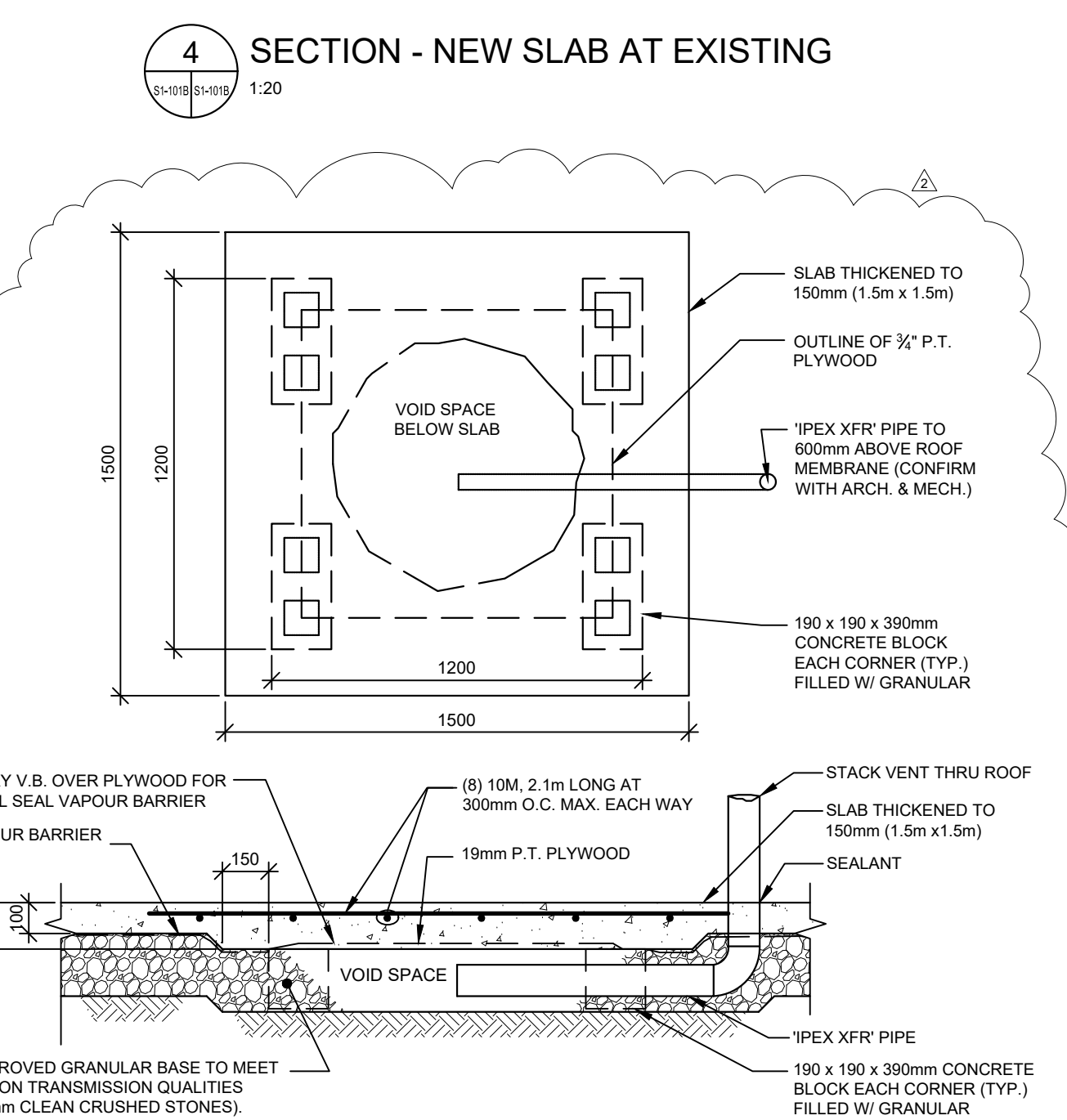
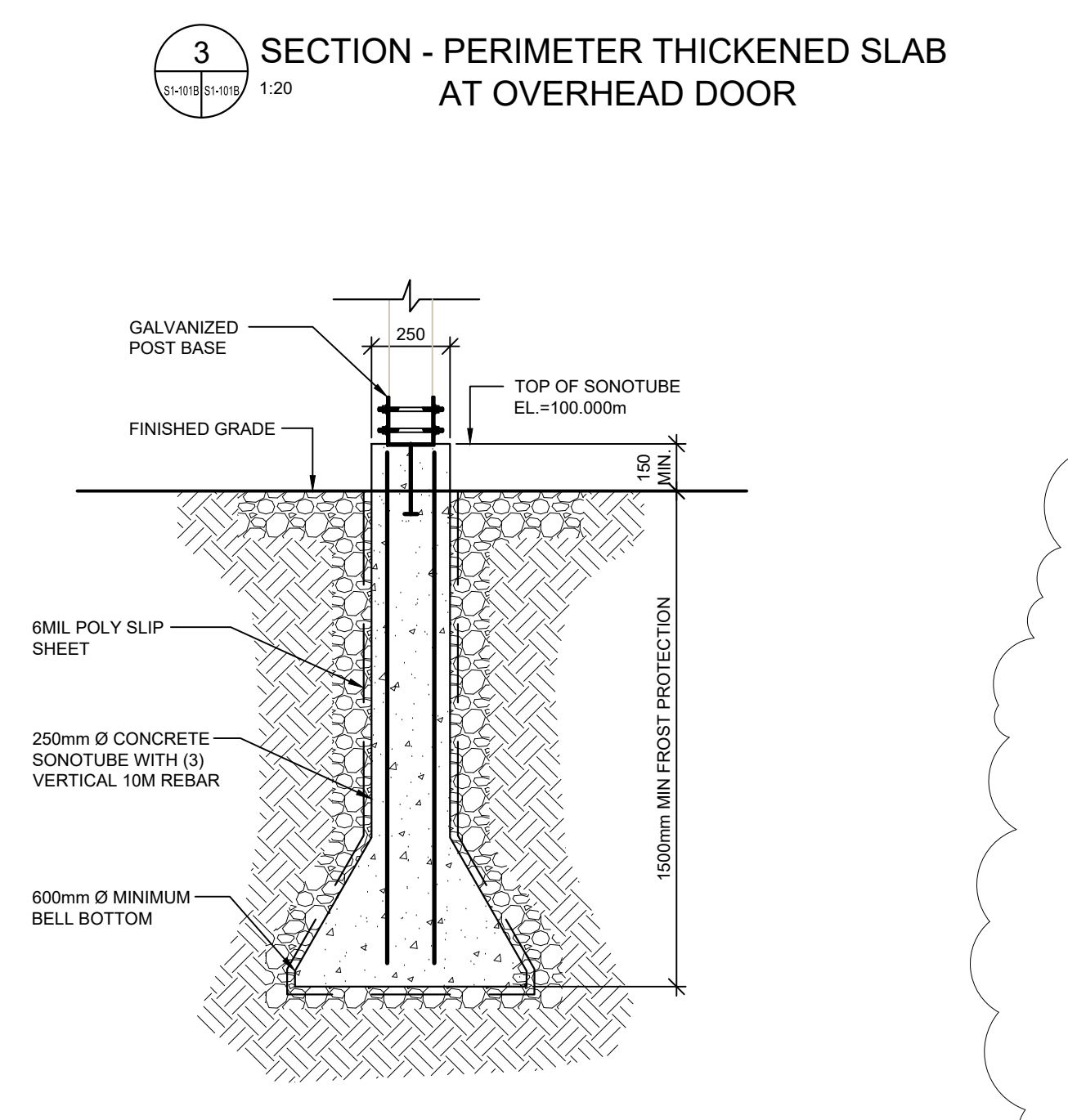
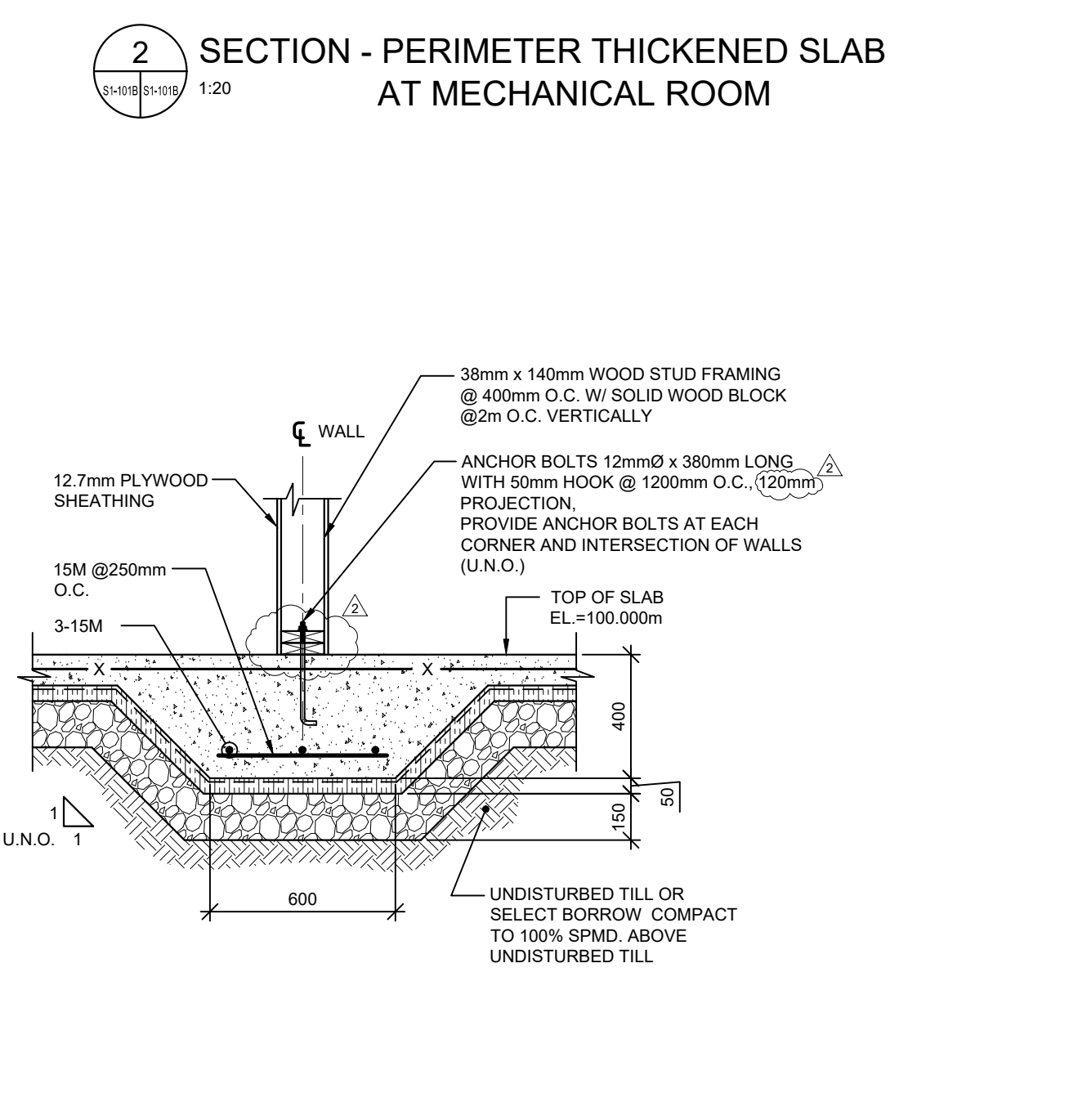
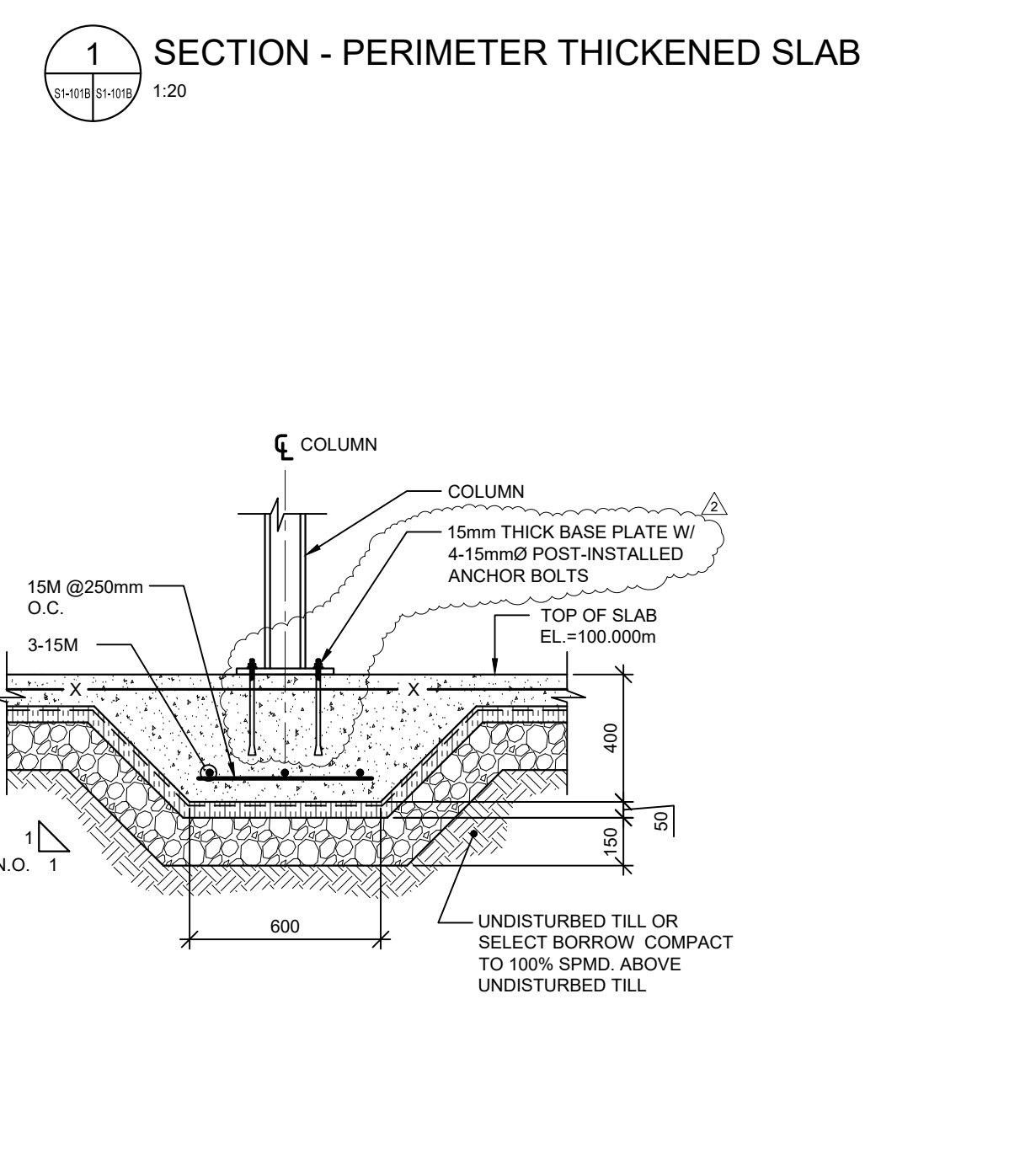
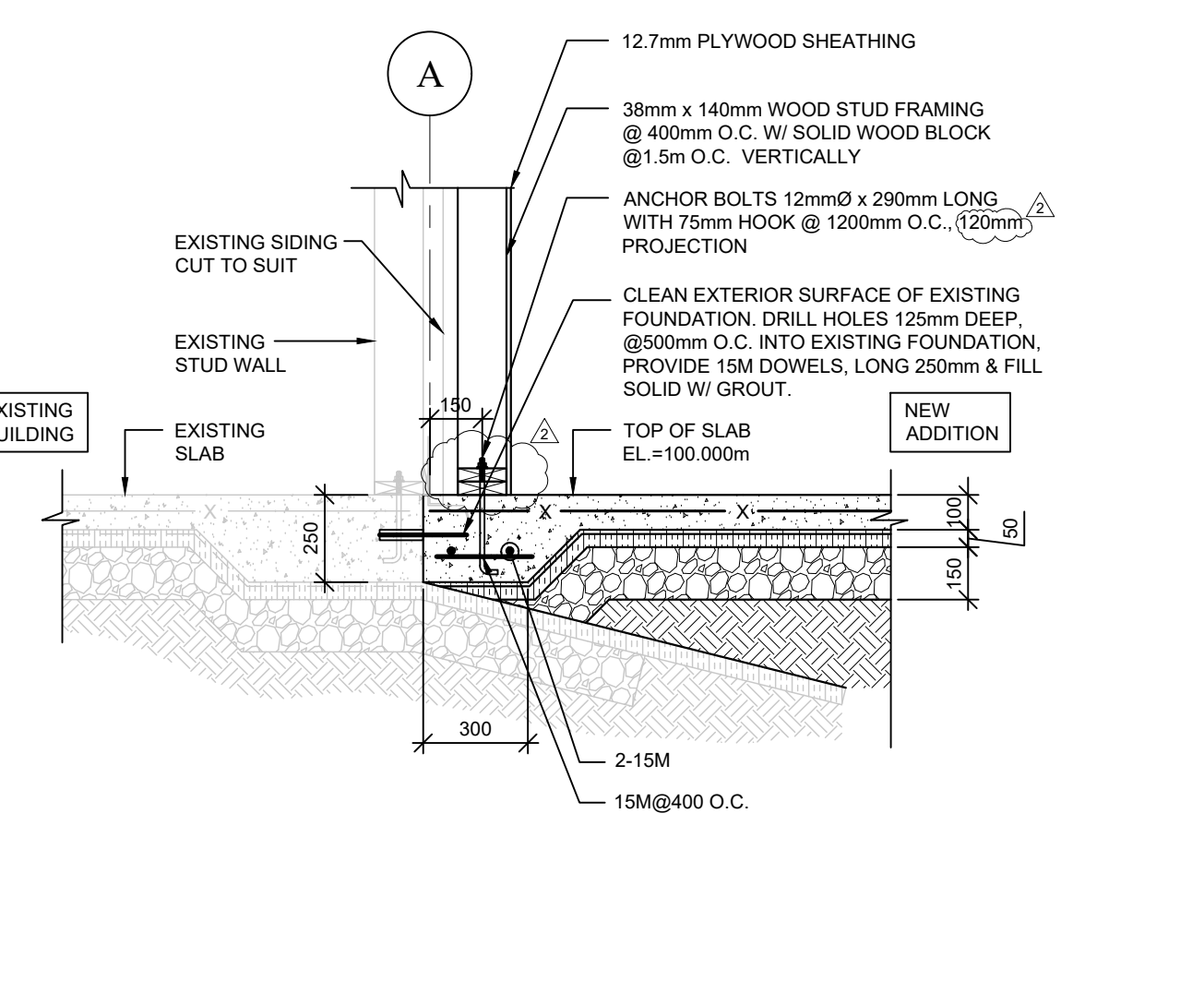
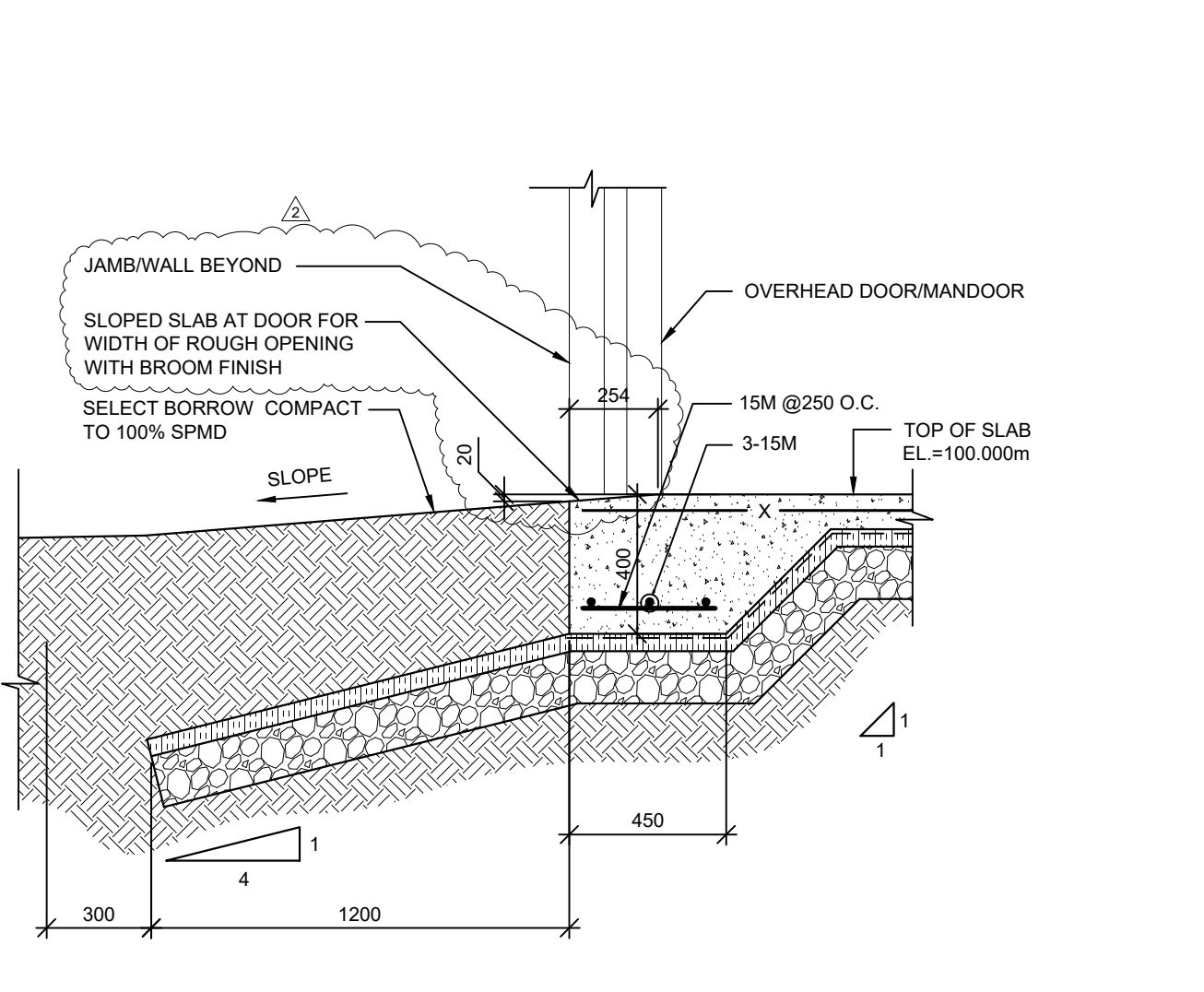
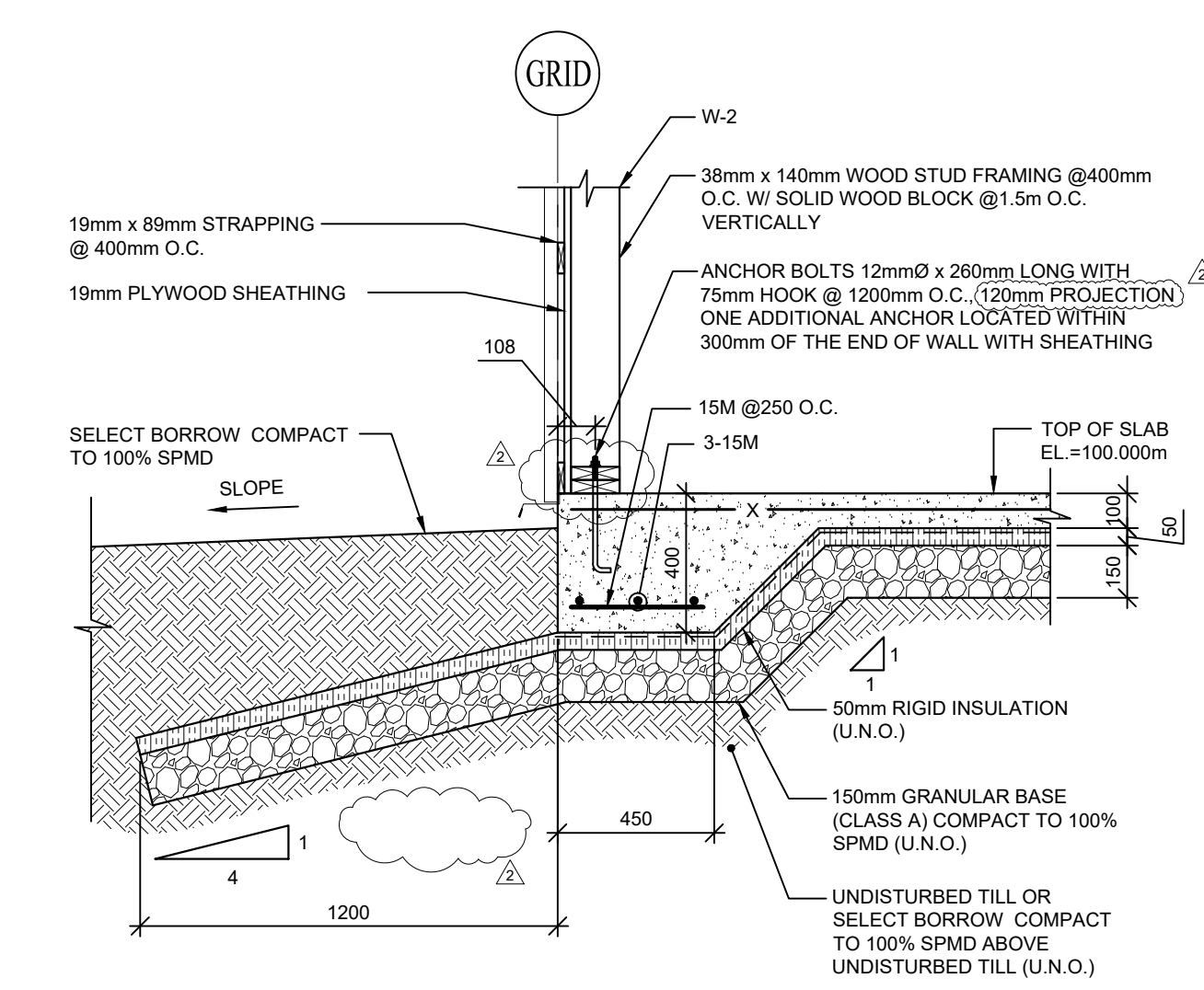
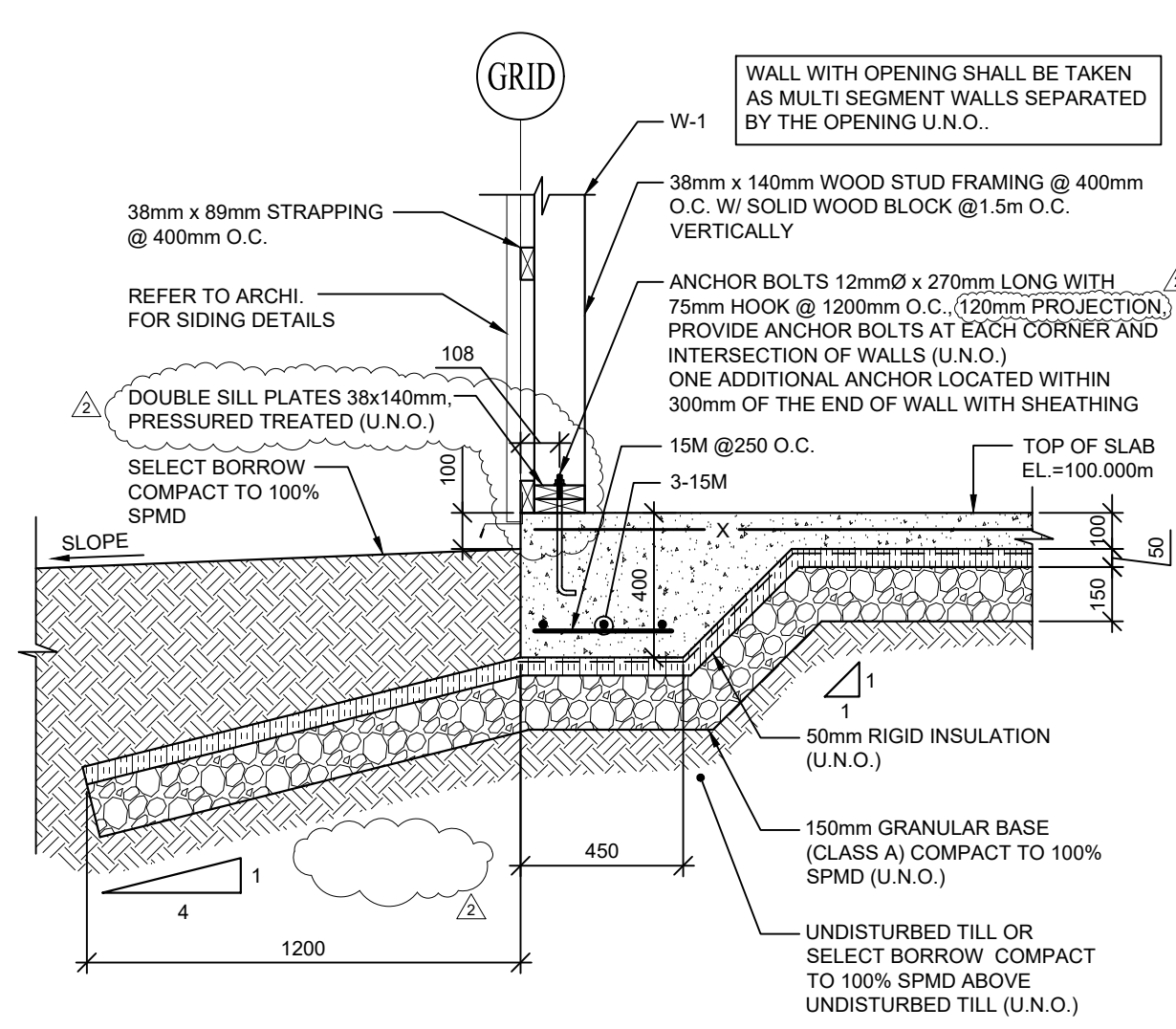
- GENERAL NOTES:**
- THE WORK SHALL BE IN ACCORDANCE WITH NATIONAL BUILDING CODE OF CANADA (NBC), 2015 REVISION, TO THE SATISFACTION OF THE ENGINEER UNLESS NOTED OTHERWISE ON THE DRAWING OR IN THE SPECIFICATIONS.
  - COMPLY WITH ALL LOCAL, MUNICIPAL, AND PROVINCIAL BY-LAWS AND REGULATIONS.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PEI OCCUPATIONAL HEALTH & SAFETY ACT, WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM AND APPLICABLE LABOR CODES.
  - CONTRACTOR MUST VISIT THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS. VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND SERVICES WITHIN THE CONTRACT LIMIT.
  - CONTRACTOR SHALL COORDINATE WORK AND COOPERATE WITH OWNER AND AGENCIES HAVING JURISDICTION.
  - REPORT ANY DOUBTFUL CONDITIONS REQUIRING DECISIONS AND SECURE DIRECTIONS FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
  - CONTRACTOR TO EXERCISE EXTREME CAUTION, DESIGN AND PROVIDE ADEQUATE SUPPORT AND CONNECTIONS TO EXISTING STRUCTURES, UTILITIES AND SERVICES. MOVE, ADJUST AND RECONNECT ALL VISIBLE AND CONCEALED ITEMS AFFECTED BY THE SCOPE OF WORK.
  - VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
  - ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR TO INCLUDE IN THE CONTRACT PRICE COSTS ASSOCIATED WITH OVER EXCAVATION, BACKFILLING AND REINSTATEMENT.
  - PROPERLY DISPOSE AND REMOVE OFFSITE ALL DEBRIS AND MATERIALS TO BE REMOVED.
  - N.I.C. INDICATES NOT IN THIS CONTRACT.

- FOUNDATION NOTES:**
- FOOTINGS SHALL NOT BE PLACED ON SOIL SOFTENED BY WATER.
  - ALL FOOTINGS SHALL BE PLACED ON SOIL HAVING A MINIMUM BEARING CAPACITY OF 150 kN/SQ.M.
  - THICKENED SLABS ARE PROVIDED AS FOOTING.
  - ALL FOOTINGS SHALL BE REVIEWED BY THE ENGINEER BEFORE CONCRETE IS PLACED. NOTIFY 24 HRS BEFORE PLACING CONCRETE.
  - VERIFY ALL CONCRETE FORMWORK LINES ARE LEVEL, PLUMB, SQUARE AND TRUE.
  - CONCRETE FORMWORK PLYWOOD SHEETS TO THE REQUIREMENTS OF CSA 0121. USE NEW MATERIAL, CLEAN, SOUND, FREE FROM DEFECTS DETRIMENTAL TO THE QUALITY OF FINISHED CONCRETE SURFACES. ARRANGE PLYWOOD SHEETS TO A UNIFORM JOINT PATTERN. CONSTRUCT FORMWORK TO RESIST FLUID PRESSURE FROM WET CONCRETE AND ALL OTHER CONSTRUCTION LOADINGS WITHOUT BULGING, MOVEMENT OR DISTORTION. REUSE OF FORMWORK SUBJECT TO THE REQUIREMENTS OF CSA A23.1.
  - OPENINGS IN FOUNDATION & BUILDING WALLS SHALL BE PROVIDED AS SHOWN ON ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS. ANY ADDITIONAL OPENINGS MUST BE APPROVED BY ENGINEER. OPENINGS SHALL BE SLEEVED.

- CONCRETE NOTES:**
- ALL CONCRETE WORK AND MATERIAL SHALL BE CARRIED OUT IN ACCORDANCE WITH LATEST CSA A23.1 AND NBCC 2015.
  - MIX DESIGN: TYPE 10 PORTLAND CEMENT.
  - EXTERIOR SLABS:
    - a. COMPRESSIVE STRENGTH (28D): 35MPa (5000psi)
    - b. CLASS OF EXPOSURE: C-2
    - c. NOMINAL AGGREGATE SIZE: 20mm (3/4")
    - d. SLUMP: 80mm (3-1/4") ± 20mm (3/4")
    - e. AIR CONTENT: 40mm (1-1/2")
    - f. WATER CEMENT RATIO: 0.40 MAX
  - CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER MINIMUM 48 HRS PRIOR TO CASTING.
  - USE OF CALCIUM CHLORIDE IS NOT PERMITTED.
  - NO CONCRETE SHALL BE POURED WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF ENGINEER.
  - ALL CONCRETE SHALL BE TESTED, TESTING SHALL CONFORM TO CSA A23.2. RECORD TESTS FOR SLUMP, AIR CONTENT AND COMPRESSIVE STRENGTH.
  - ALL CONCRETE SHALL BE VIBRATED USING HIGH FREQUENCY VIBRATORS. VIBRATION PRACTICES TO BE IN ACCORDANCE WITH ACI 309R.
  - COLD WEATHER CONCRETE SHALL BE PLACED AND PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1 AND TO THE REQUIREMENTS OF ACI-309R. PROVIDE HEATED ENCLOSURES AND INSULATED TARPAS AS REQUIRED TO MAINTAIN MINIMUM 10°C CONCRETE SURFACE TEMPERATURE FOR A PERIOD OF 5 DAYS FOLLOWING CONCRETE PLACEMENT. PROVIDE CONTROLLED COOL DOWN PERIOD TO PREVENT SURFACE CRACKING AT END OF PROTECTION PERIOD. ENSURE THAT NO CONCRETE IS PLACED ON OR AGAINST FROZEN SUBGRADE, FORMWORK, OR REINFORCING STEEL.
  - LEAVE FORMWORK IN PLACE FOR THE FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE:
    - a. 72 HR. FOR WALLS
    - b. 72 HR. FOR FOOTINGS
  - APPLY CURING COMPOUND TO WALLS AND PILASTERS IF EXPOSED TO DRYING CONDITIONS PRIOR TO COMPLETION OF FULL 7 DAY MOIST CURING PERIOD. USE LIQUID MEMBRANE CONCRETE CURING COMPOUND.

- REINFORCING STEEL NOTES:**
- ALL REINFORCING STEEL SHALL BE NEW BILLET TO CSA G30.18, WWM REINFORCING TO CSA G30.5.
  - MINIMUM REINFORCING STEEL YIELD STRENGTH SHALL BE 400 MPa.
  - REINFORCING STEEL SHALL BE DETAILED, CUT, BENT, FABRICATED AND PLACED IN ACCORDANCE WITH REINFORCING MANUAL OF STANDARD PRACTICE (REINFORCING STEEL INSTITUTE OF CANADA, CAN-AS3 AND CSA-A23.1.
  - THE GENERAL CONTRACTOR SHALL INSPECT ALL THE REINFORCING STEEL BEFORE PLACEMENT OF THE CONCRETE.
  - THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO THE PLACEMENT OF THE CONCRETE.
  - THE POSITION OF ALL REINFORCING STEEL SHALL BE MAINTAINED DURING THE POURING OPERATION BY DIRECT SUPERVISION OF THE REINFORCING STEEL CONTRACTOR.
  - SUBMIT SHOP DRAWINGS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN PEI FOR REVIEW PRIOR TO FABRICATING REINFORCING STEEL. CLEARLY INDICATE BAR SIZES, SPACING, LOCATION, QUANTITY, CHAIRS, SPACERS, ETC WITH IDENTIFYING CODE MARKS TO PERMIT PLACEMENT.
  - ALL FOOTING REINFORCING SHALL CONTINUE THROUGH COLUMN FOOTINGS AND SHALL CONTINUE TO THE ENDS OF THE FOOTINGS WHERE FOOTINGS CHANGE DIRECTION OR STOP.
  - ALL WALL REINFORCING SHALL CONTINUE THROUGH PIER/COLUMN REINFORCING.
  - CONCRETE COVER (UNLESS NOTED OTHERWISE):
    - a. POURED AGAINST THE GROUND: 75mm (3")
    - b. FORMED SURFACE AGAINST GROUND: 50mm (2")
    - c. FORMED SURFACE EXPOSED TO WEATHER: 30mm (1-1/4")
    - d. FORMED SURFACE PROTECTED:
      - BEAMS: 40mm (1-1/2")
      - COLUMNS: 40mm (1-1/2")
      - WALLS: 25mm (1")
  - USE SPACERS, CHAIRS, TEMPLATES AND DIRECT SUPERVISION OF THE REINFORCING STEEL CONTRACTOR TO ACCURATELY LOCATE & SUPPORT REINFORCING STEEL & SECURE IN POSITION TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.

- MISCELLANEOUS**
- THE WORK SHALL BE IN ACCORDANCE WITH NATIONAL BUILDING CODE OF CANADA (2015) TO THE SATISFACTION OF THE ENGINEER UNLESS NOTED OTHERWISE ON THE DRAWING OR IN THE SPECIFICATIONS.
  - COMPLY WITH ALL LOCAL, MUNICIPAL, AND PROVINCIAL BY-LAWS AND REGULATIONS.
  - VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
  - REPORT ANY DOUBTFUL CONDITIONS REQUIRING DECISIONS AND SECURE DIRECTIONS FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
  - THE GENERAL CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS WITH THE FOUNDATION DRAWINGS.



**ABBREVIATION**

AB	= ANCHOR BOLTS GROUP
ARCH.	= ARCHITECTURAL
BLDG.	= BUILDING
BOTT.	= BOTTOM
BTWN.	= BETWEEN
C.C.	= CENTER TO CENTER
CMU	= CONCRETE MASONRY UNIT
CONC.	= CONCRETE
CONT.	= CONTIGUOUS
CR.	= CENTER
CW	= COMPLETED WITH
DIA.	= DIAMETER
DWS	= DRAWINGS
E.F.	= EACH FACE
EL.	= ELEVATION
ELEC.	= ELECTRICAL
E.W.	= EACH WAY
EQ.	= EQUAL
FDN.	= FOUNDATION
FTG.	= FOOTING
GALV.	= GALVANIZED
HORI.	= HORIZONTAL
H.P.	= HIGH POINT
LG	= LONG
L.L.H.	= LONG LEG HORIZONTAL
L.L.V.	= LONG LEG VERTICAL
L.P.	= LOW POINT
MAX.	= MAXIMUM
M.C.	= MOMENT CONNECTION
MECH.	= MECHANICAL
MIN.	= MINIMUM
N.I.C.	= NOT IN CONTRACT
O.C.	= ON CENTER
OWS	= OPEN WEB STEEL JOIST
QTY.	= QUANTITY
REIN.	= REINFORCING
RW	= REINFORCED WITH
S.C.J.	= SAW CUT JOINT
SPMD	= STANDARD PROCTOR MAXIMUM DRY DENSITY
T.J.	= THE JOIST
T.O.S.	= TOP OF STEEL
TYP.	= TYPICAL
U.N.O.	= UNLESS NOTED OTHERWISE
US	= UNDERSIDE
VERT.	= VERTICAL
WWM	= WELDED WIRE MESH
W	= WITH
CL	= CENTER LINE
@	= SPACING AT

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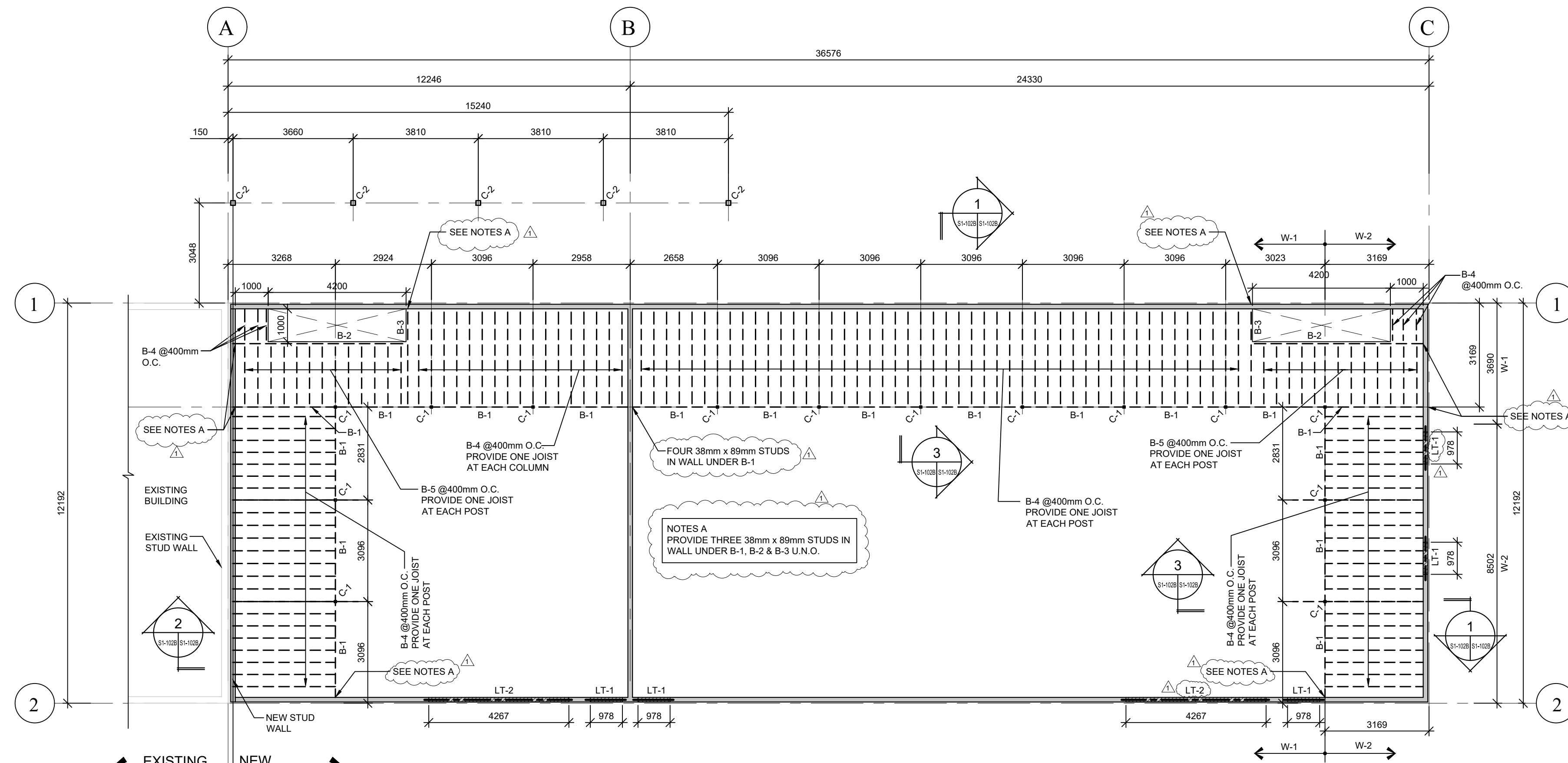
Suite 201, 85 Fitzroy Street  
Charlottetown, PEI, Canada, C1A 1R6  
Phone (902) 368-2300  
www.colesassociates.com

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**PEI Department of Transportation & Infrastructure**

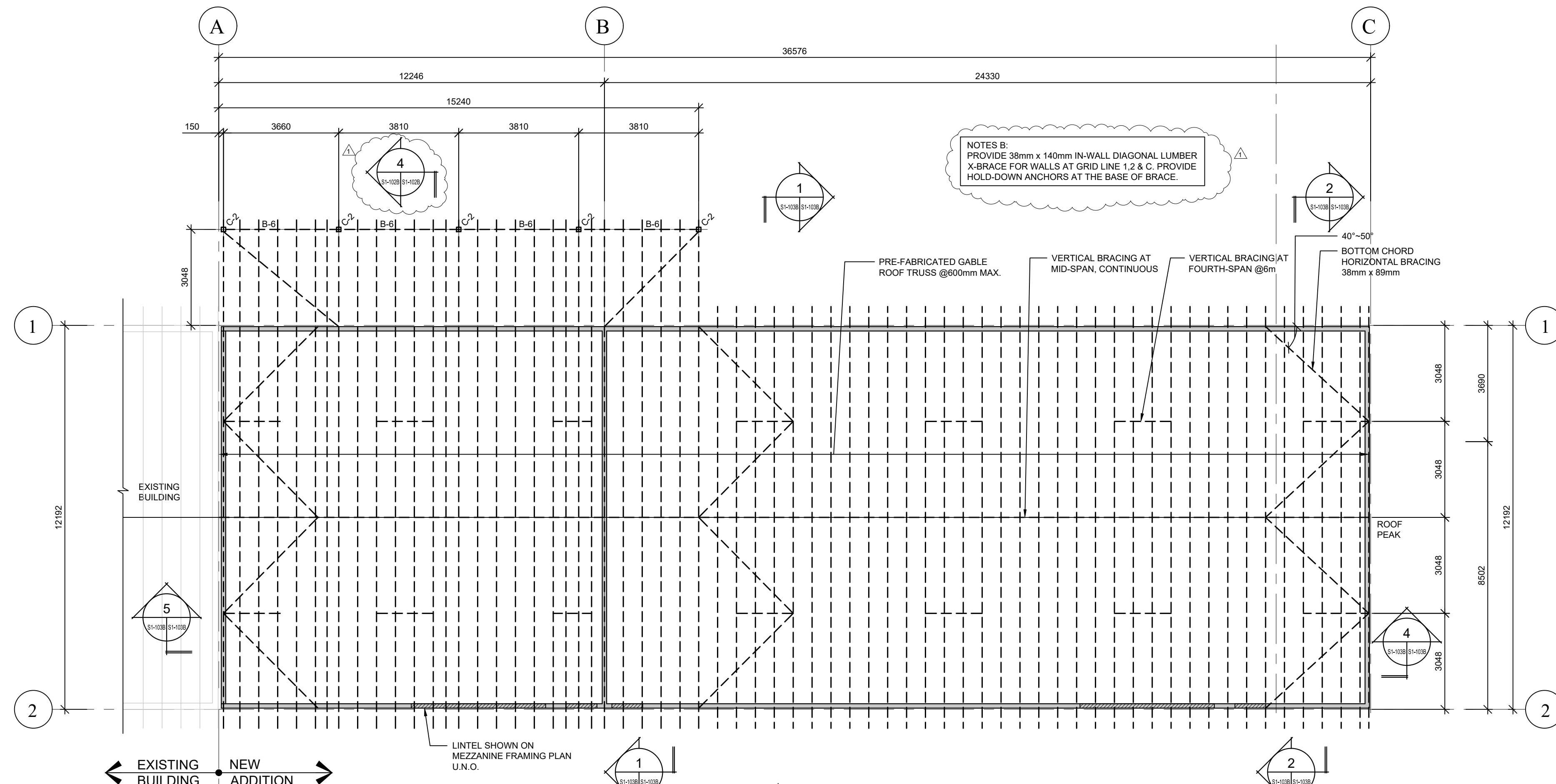
Project Title  
**KCHD Bridgetown Upgrades Warehouse Building Bridgetown, Kings County Prince Edward Island**

Sheet Title  
**Foundation Plan Sections, Details & Notes**

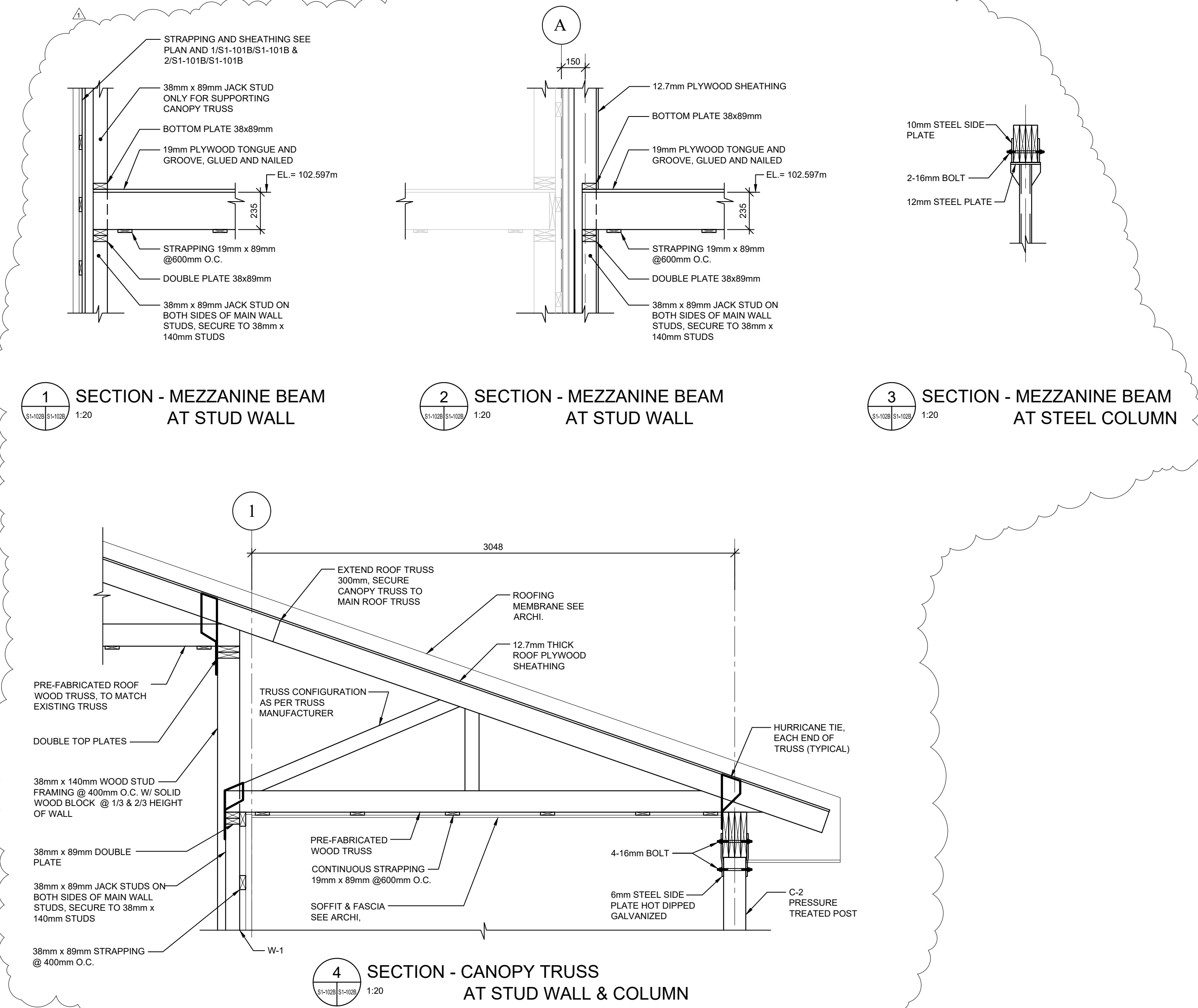
No.	Description	Date	Date:	Revision
0	Issued for Tender	2021-Oct-07	November 29, 2021	
1	Issued for Addendum #2	2021-Nov-10	Drn By: K.C.	2
2	Issued for Addendum #5	2021-Nov-29	Chk By: N.L.P. Eng.	
			Project Number:	
			<b>211120</b>	
			Drawing Number:	
			<b>S1-101B R2</b>	



5 PLAN - MEZZANINE FRAMING  
Scale: 1:100



6 PLAN - ROOF FRAMING  
Scale: 1:100



LEGEND	
	LOAD-BEARING STUD WALL 38x140mm STUD SPACED AT 400mm O.C. W/ SOLID WOOD BLOCK AT MID-HEIGHT
	NON-LOAD-BEARING WALL SEE ARCH. DWGS. FOR DETAILS
	DOOR OPENING
	LINTEL
	JOIST
	LUMBER

BEAM SCHEDULE		
TYPE	SIZE	LOAD AT THE END FOR BEAM HANGER (kN)
B-1	4-PLY 38 x 235mm (DEEP) S-P-F	24kN
B-2	133mm x 406mm (DEEP) LVL	36kN
B-3	133mm x 241mm (DEEP) LVL	36kN
B-4	38mm x 235mm (DEEP) S-P-F	6kN
B-5	38mm x 184mm (DEEP) S-P-F	4kN
B-6	4-PLY 38 x 285mm (DEEP) S-P-F	17kN

NOTE:  
LVL BASED ON THE FOLLOWING TYPICAL VALUES OF SPECIFIED STRENGTH:  
F<sub>y</sub> = 35MPa  
F<sub>t</sub> = 37MPa  
E = 10000N/mm<sup>2</sup>  
E<sub>min</sub> = 9.4ANs  
SIZE FACTOR IN BENDING K<sub>1</sub> = 0.50(50%)

LINTEL SCHEDULE			
TYPE	OPENING SPAN	SIZE	BEARING JACK STUDS
LT-1	0.978m	3-PLY 38x140mm S-P-F	2 EACH END MIN.
LT-2	4.267m	133mm x 406mm (DEEP) LVL	5 EACH END MIN.

COLUMN SCHEDULE	
TYPE	SIZE
C-1	HSS 76x76x6.4
C-2	140mm x 140mm S-P-F (PRESSURE TREATED)

ROOF LOADS:	
ROOF DEAD LOAD:	= 0.45 kN/m <sup>2</sup>
MECH + ELEC. ALLOWANCE	= 0.45 kN/m <sup>2</sup>
CEILING + FINISHES	= 0.10 kN/m <sup>2</sup>
TOTAL ROOF DEAD LOAD:	= 1.00 kN/m <sup>2</sup>
ROOF LIVE LOAD:	= 2.76 kN/m <sup>2</sup>
SNOW (2.7x0.8+0.6)	= 2.76 kN/m <sup>2</sup>
FLOOR DEAD LOAD:	= 0.45 kN/m <sup>2</sup>
FLOOR SYSTEM	= 0.45 kN/m <sup>2</sup>
MECH + ELEC. ALLOWANCE	= 0.10 kN/m <sup>2</sup>
CEILING + FINISHES	= 0.10 kN/m <sup>2</sup>
TOTAL FLOOR DEAD LOAD:	= 1.00 kN/m <sup>2</sup>
FLOOR LIVE LOAD:	= 4.80 kN/m <sup>2</sup>
WIND PRESSURE (1/50):	= 0.56 kN/m <sup>2</sup>

NOTE:  
1. ROOF TRUSS TO BE DESIGNED FOR NET UPLIFT OF 1.0kN/m<sup>2</sup>. CANOPY ROOF TRUSS TO BE DESIGNED FOR NET UPLIFT OF 1.5kN/m<sup>2</sup>.

- ROUGH CARPENTRY NOTES:**
- ALL WOOD STRUCTURAL MEMBERS, ASSEMBLIES AND FASTENERS SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD 086 (LATEST EDITION).
  - ALL LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK IN ACCORDANCE WITH THE MARKING PROVISIONS OF CSA STANDARD 0141.
  - ALL LUMBER SHALL BE STRUCTURAL GRADE DRY, S-P-F NO. 2 MINIMUM. MOISTURE CONTENT NOT GREATER THAN 19% AT INSTALLATION.
  - ALL PLYWOOD SHALL BE EXTERIOR GRADE DOUGLAS FIR PLYWOOD TO CSA 0121 AND MANUFACTURED WITH WATERPROOF GLUE.
  - ALL FASTENERS AND METAL IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR APPROVED EQUAL.
  - ALL BEARING SHALL BE CONTINUOUS TO FOUNDATION UNLESS NOTED OTHERWISE.
  - SHEATHING SHALL BE FASTENED AT 150mm (6") ON CENTER AT EDGES AND END SUPPORTS AND AT 300mm (12") CENTERS AT INTERMEDIATE SUPPORTS.
  - REQUIRED TRUSS/JOIST ANCHORS, CLIPS, HANGERS, ETC. SHALL BE DESIGNED AND SUPPLIED BY TRUSS/JOIST MANUFACTURER TO ACCOMMODATE ALL LOADS, INCLUDING UPLIFT.
  - VENTILATE AND FIRE STOP ALL SPACES TO NBC REQUIREMENTS.
  - PROVIDE TEMPORARY ROOF AND WALL BRACINGS TO SUPPORT LOADS AND KEEP STRUCTURE STABLE DURING INSTALLATION.
  - COORDINATE WITH MECHA. FOR ROOF MOUNTED MECHANICAL EQUIPMENT.
- SLAB ON GRADE NOTES:**
- SLAB-ON-GRADE CONSTRUCTION:
    - SEALER
    - 100mm THICK 25MPa CONCRETE SLAB REIN. W/ 152x152 MW34 9MW34 9 WELDED WIRE MESH W/ CHAIR
    - 10 mil POLY. VAPOR BARRIER
    - 50mm RIGID INSULATION
    - 150mm GRANULAR BASE CLASS A1 COMPACT TO 100% SPMD
    - UNDISTURBED TILL OR SELECT BORROW COMPACT TO 100% SPMD ABOVE UNDISTURBED TILL
- STRUCTURAL STEEL**
- ALL BEAMS, CHANNELS, COLUMNS, ANGLES SHALL CONFORM TO CSA-S16 & CSA-G40.20/G40.21 WITH A YIELD STRENGTH OF 350 MPa.
  - ALL STEEL SECTIONS SHALL BE CUT FROM FULL LENGTH STOCK OR ORDERED CUT TO LENGTH. UNSPECIFIED SPLICES WILL NOT BE TOLERATED AND SHALL BE CAUSE FOR REJECTION. ALL SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
  - THE STEEL ERECTOR SHALL BE RESPONSIBLE FOR SUPPLYING, ERECTING AND REMOVING ALL TEMPORARY WIND BRACING, AS REQUIRED.
  - STEEL ERECTION DRAWINGS, JOISTS DESIGN AND SHOP DRAWINGS AND DECK DRAWINGS SHALL BE SUBMITTED FOR APPROVAL SHOWING THE ADDITIONAL DETAILS, WELDINGS, ETC., AND SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER.



Suite 201, 85 Fitzroy Street  
Charlottetown, PEI, Canada, C1A 1R6  
Phone (902) 368-2300  
www.colesassociates.com

Client  
PEI Department of Transportation & Infrastructure

Project Title  
KCHD Bridgetown Upgrades  
Warehouse Building  
Bridgetown, Kings County  
Prince Edward Island

Sheet Title  
Framing Plan  
Sections, Details & Notes

No.	Description	Date	Date:	Revision
0	Issued for Addendum #2	2021-Nov-16	November 29, 2021	1
1	Issued for Addendum #5	2021-Nov-29		

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**S1-102B R1**