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 - REINFORCED CONCRETE - REQUIRED CHARACTERISTIC COMPRESSIVE STRENGTH AT 28 DAYS:
FOUNDATIONS: 25 MPa
COLUMNS: 30 MPa
R.C. WALLS: 30 MPa
SUSPENDED SLABS: 30 MPa
STAIRS: 30 MPa
BLINDING LAYER: 15 MPa
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 - FLOORS ARE DESIGNED FOR A MAXIMUM CHARACTERISTIC IMPOSED LOAD (LIVE LOAD) OF 1.5kPa.
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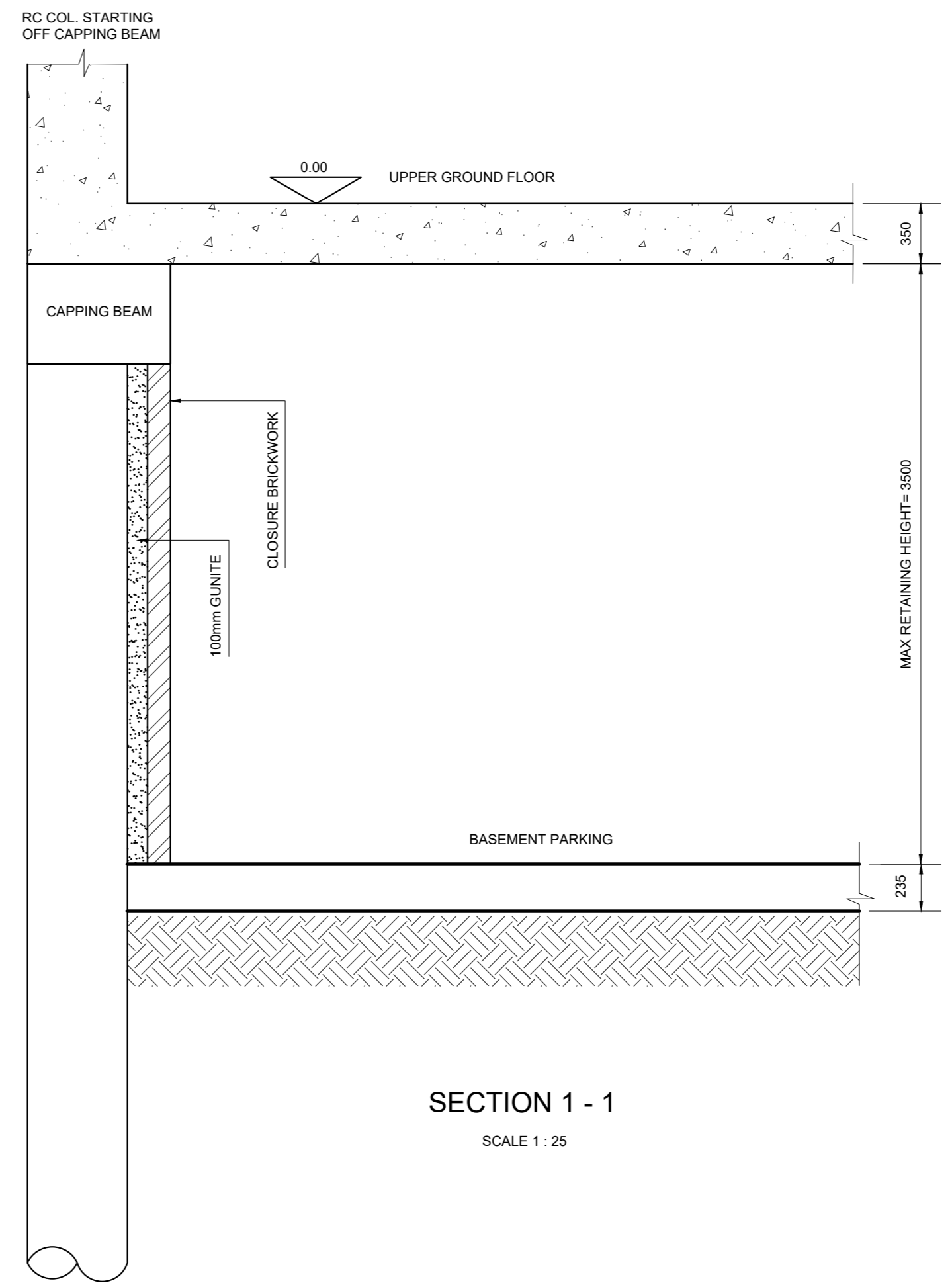
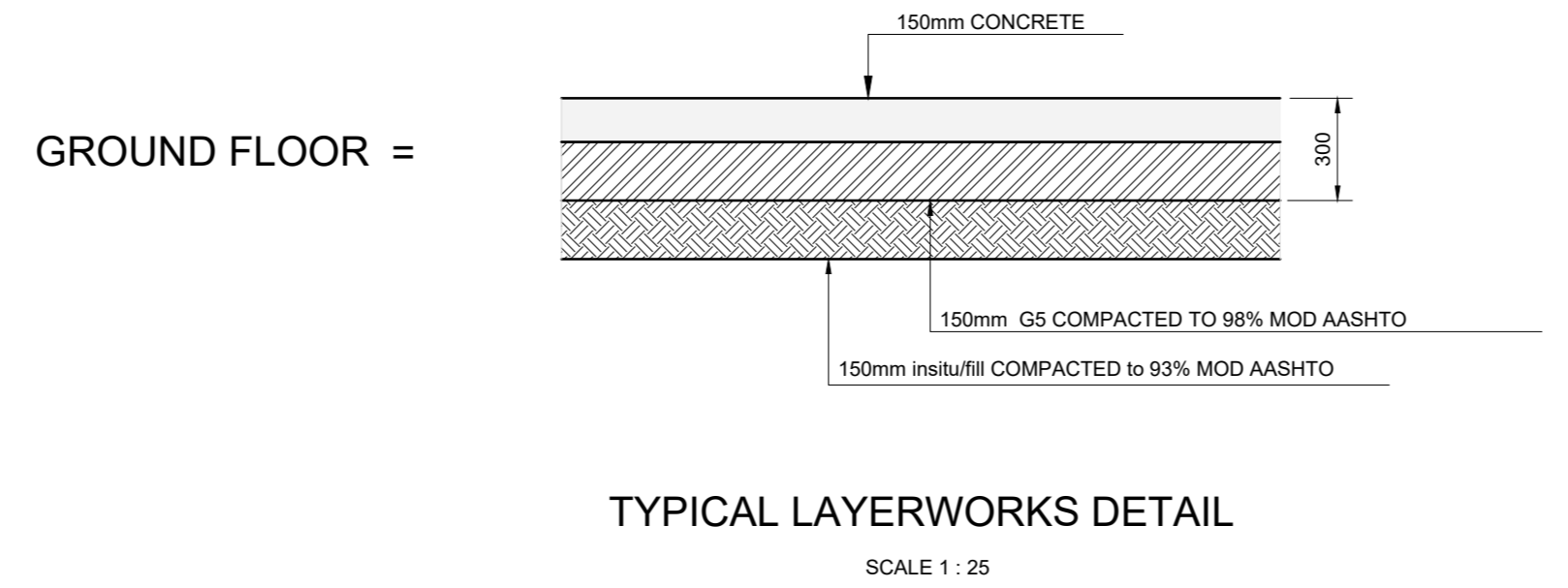
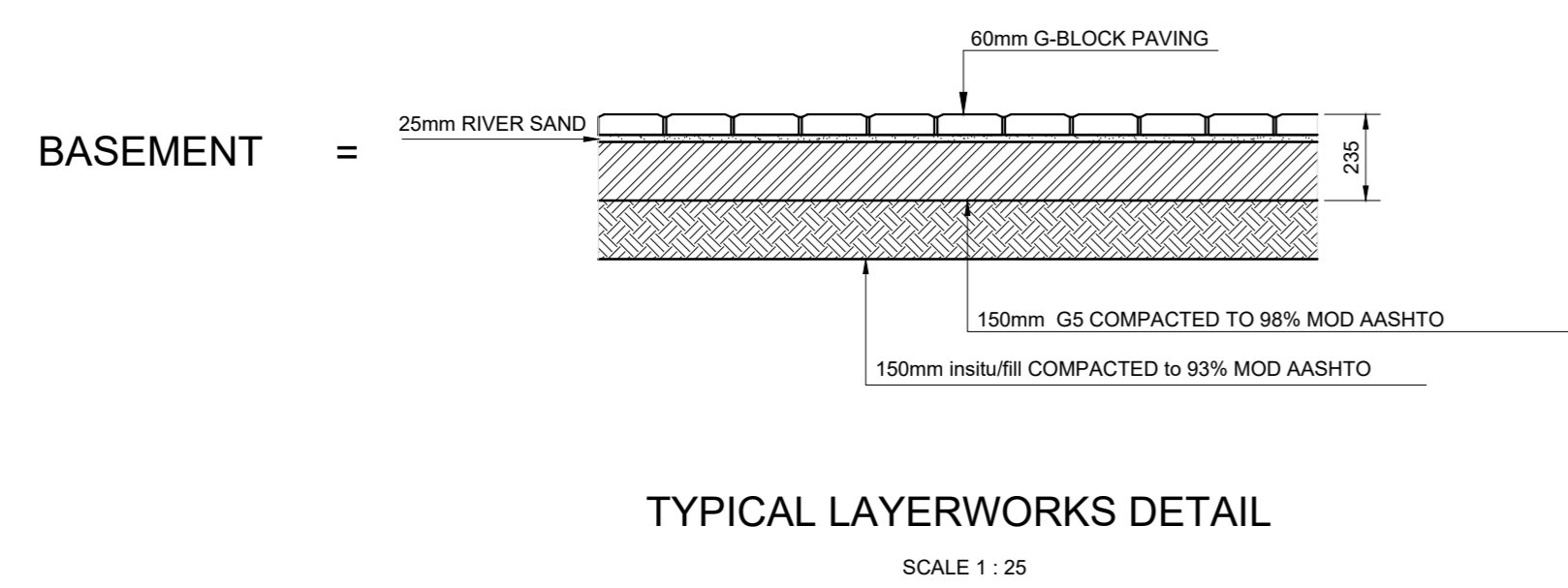
CLIENT :
SOUTH CAPE TVET COLLEGE
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GEORGE
6500
TEL: 0448840359

ARCHITECTS:
RMA ARCHITECTS
6 SHIRLEY STREET
NEWTON PARK
PORT ELIZABETH
TEL: 0419552999
SACAP: 4535

QUANTITY SURVEYORS:
AKHA ISWE QS
67 8th Ave,
Rondebosch East
Cape Town
7780
TEL: 087 700 8601

- NOTE:**
- CONTRACTOR TO ALLOW FOR LATERAL STABILITY ASSURANCE
 - CONTRACTOR TO ENSURE STABILITY OF ALL EXCAVATIONS AND BANKS
 - ALL BANKS 1:1.5
 - CONTRACTOR TO SHORE BANKS IF NECESSARY
 - CONTRACTOR TO COMPLY WITH OHS ACT
 - STORMWATER ATTENUATION & CONNECTION DETAILS TO MET SERVICE ENGINEER'S DETAILS
 - ALL WORK TO BE IN ACCORDANCE WITH SABS - 1200
 - CONTRACTOR TO EXPOSE ALL EXISTING SERVICES BY HAND PRIOR TO BULK EXCAVATION
 - CONTRACTOR TO SHORE BANKS CREATED TO SUPPORT EXISTING SEWER & STORMWATER MAINS

BULK EARTHWORKS LAYOUT
SCALE 1: 100



01	LAYOUT REVISED	E.N	20/04/24
REV.	AMENDMENTS	APP.	DATE

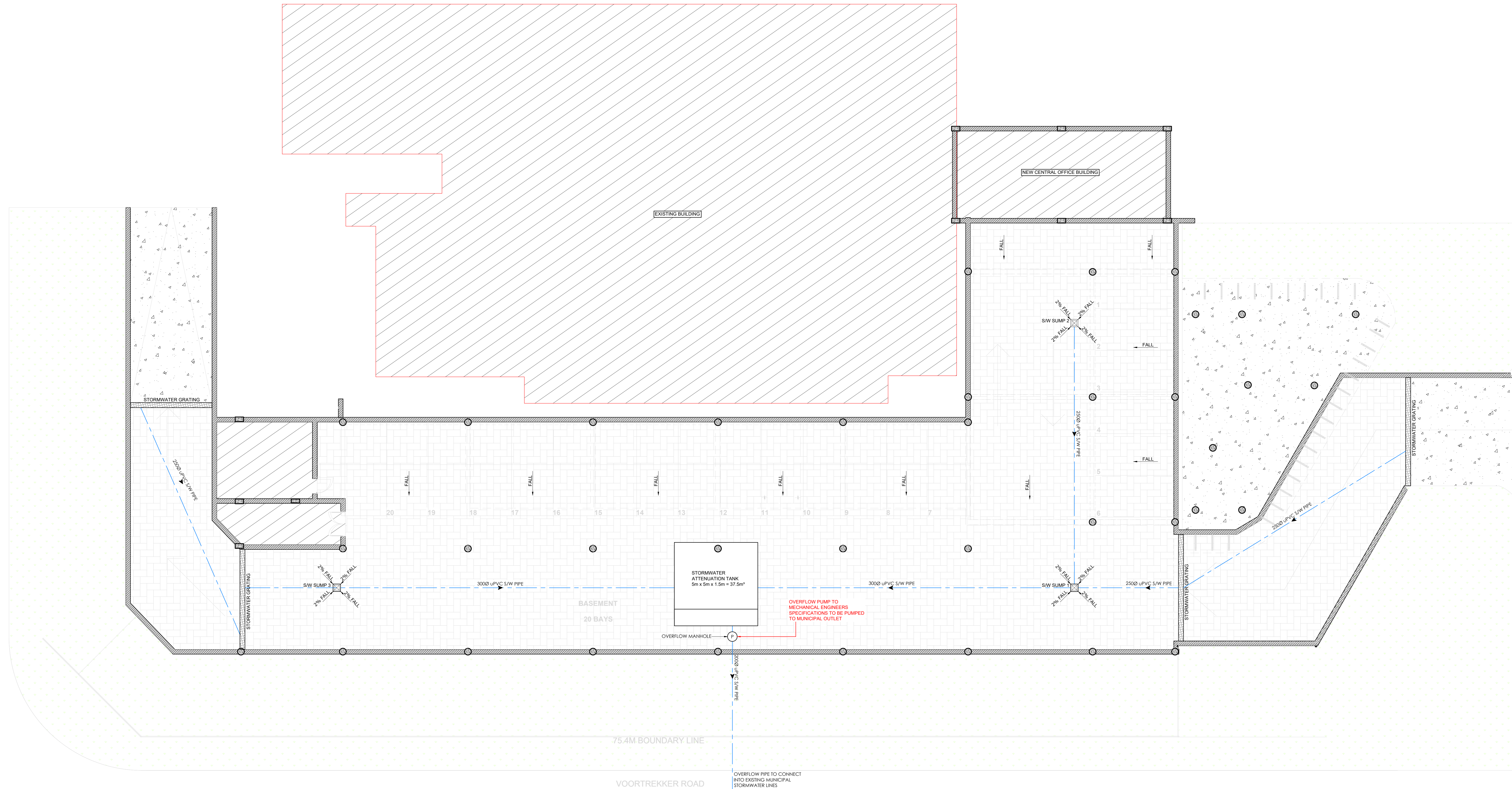
HVK CONSULTING
CIVIL & STRUCTURAL ENGINEERS
214 OLIVER LISA DRIVE, LIMBULO, DURBAN
CELL: 072 885 1004
E-MAIL: yegor@hvkconsulting.co.za

PROJECT:
NORTHLINK TVET COLLEGE
NEW ANNEX BUILDING AT CENTRAL OFFICES

TITLE:
BULK EARTHWORKS LAYOUT & DETAILS

DESIGNED BY:	E.NAIDOO	DATE:	26/03/2024	DRAWING No.	REV.
DRAWN BY:	E.NAIDOO	SCALE:	AS SHOWN	22430-E1	01
APPROVED BY:	Y.PILLAY				

PRELIMINARY LAYOUT FOR COSTING PURPOSES ONLY



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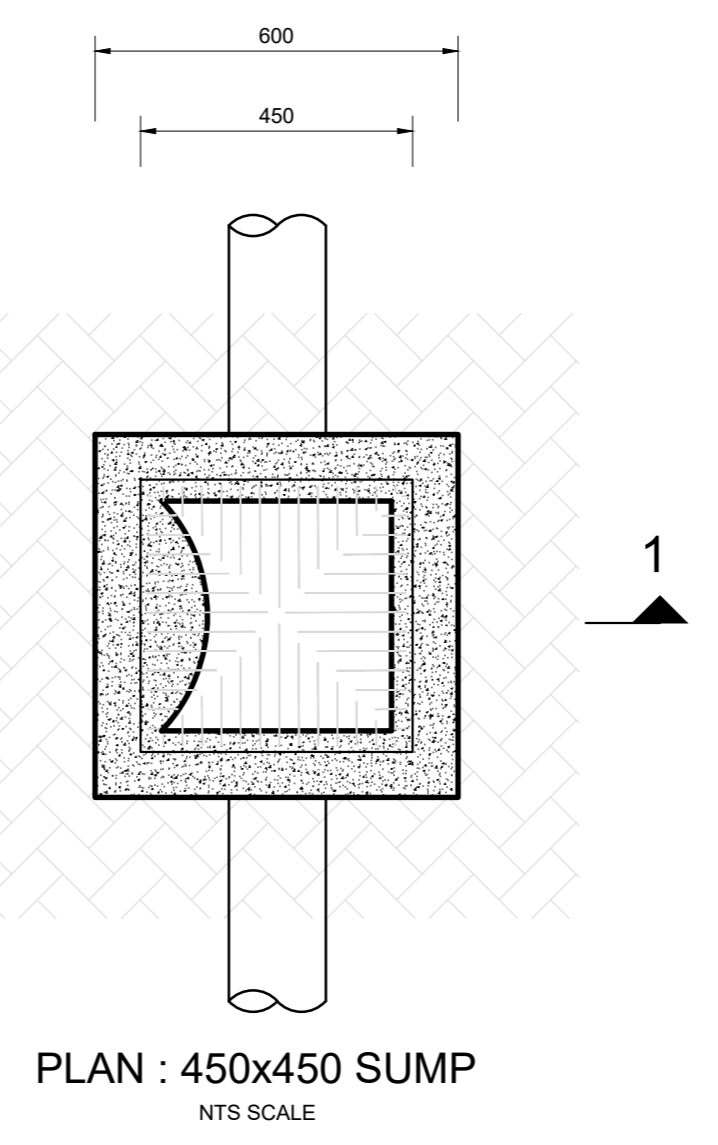
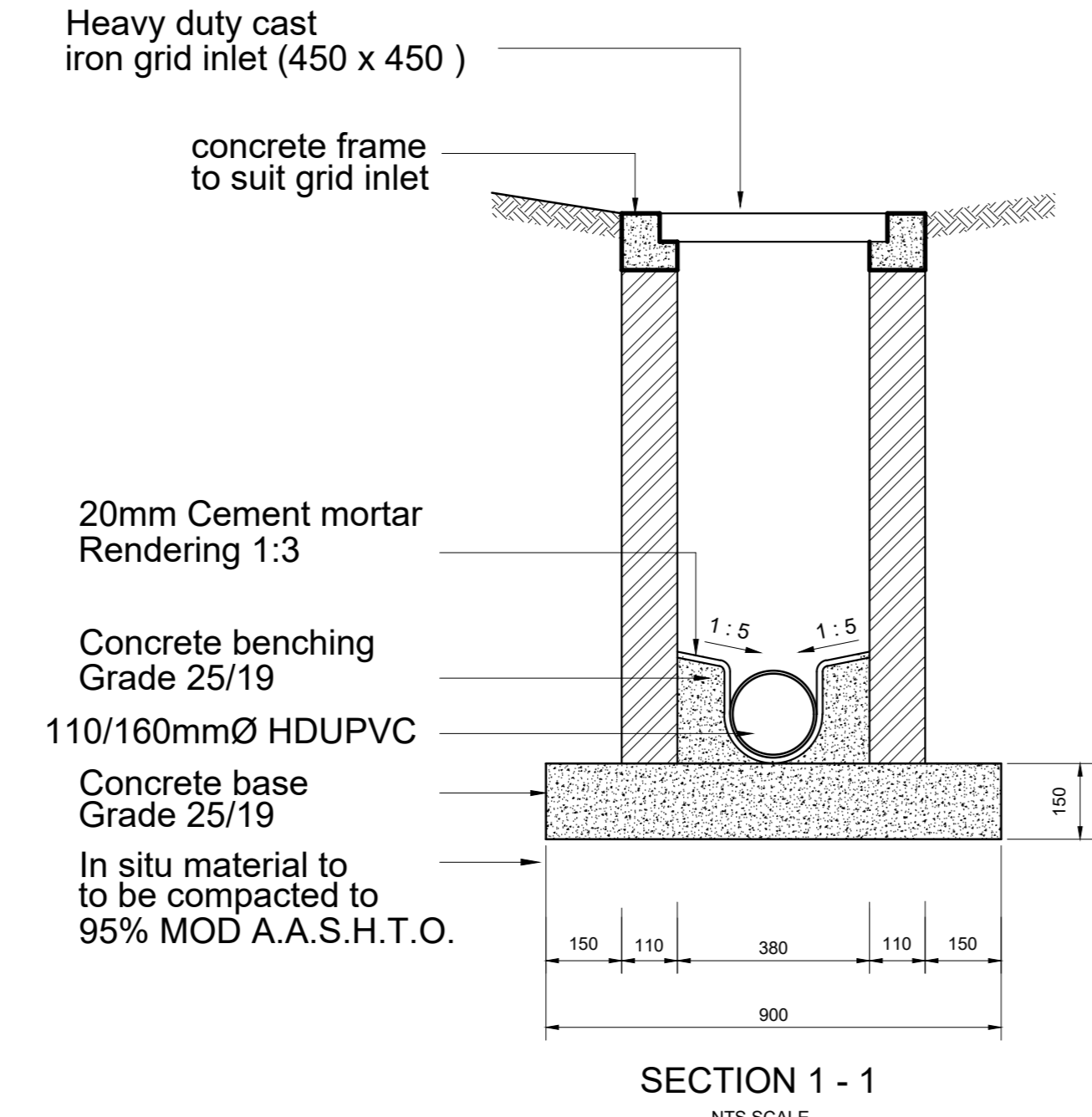
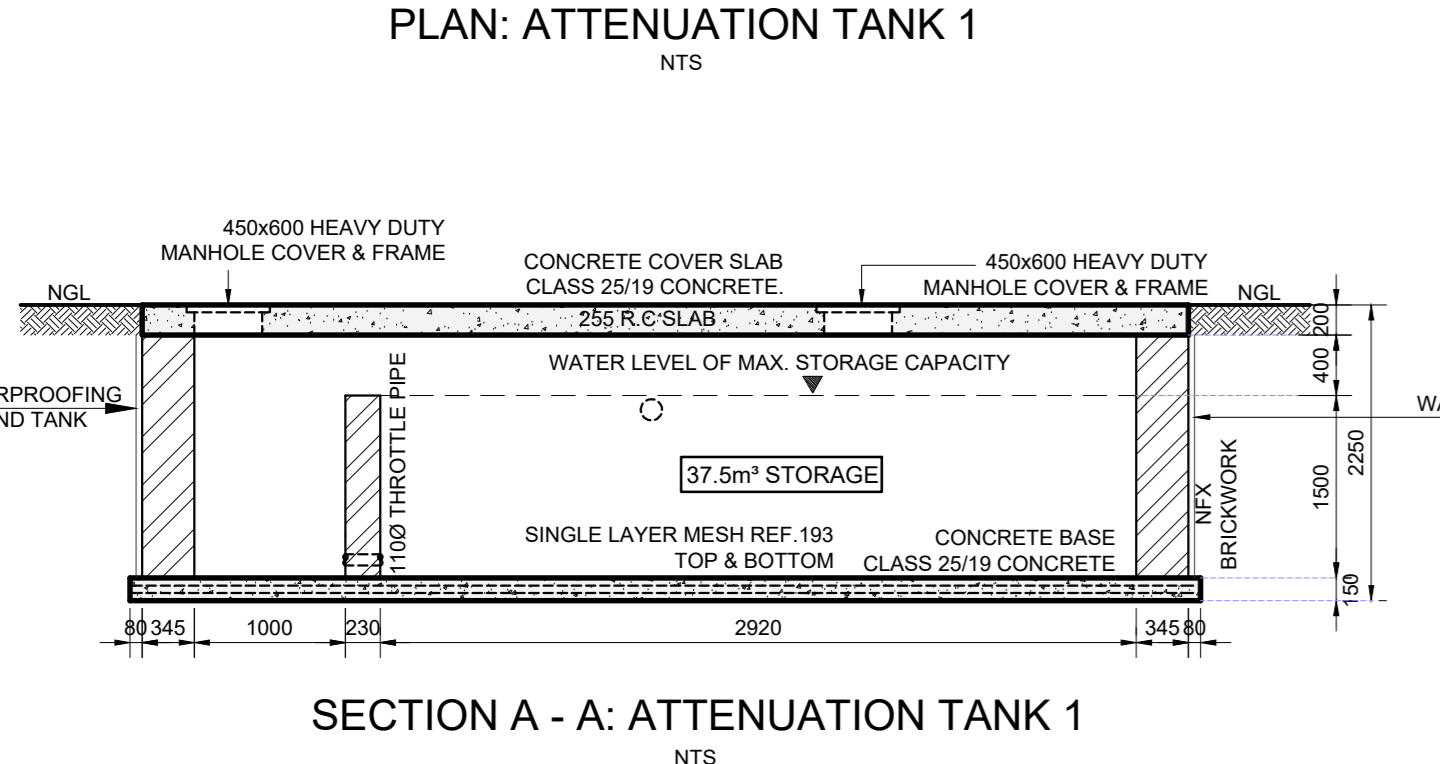
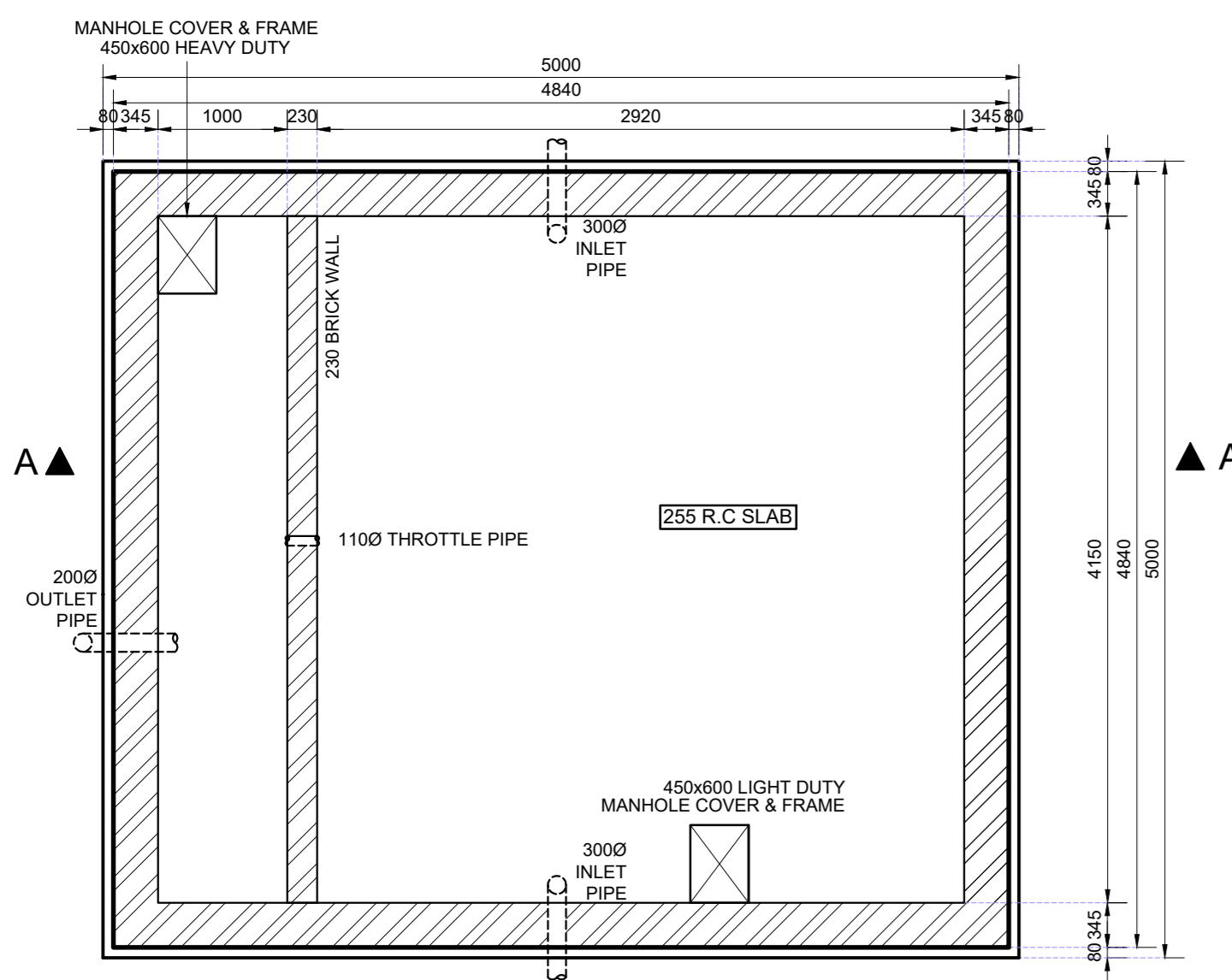
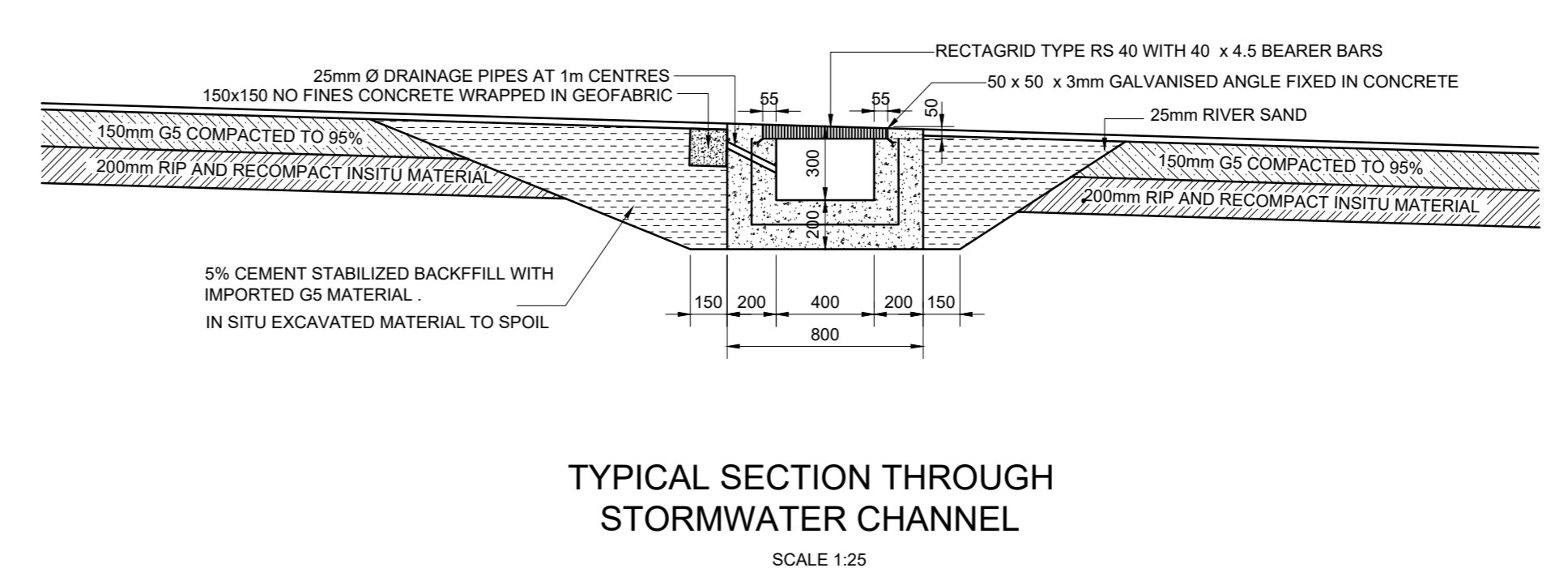
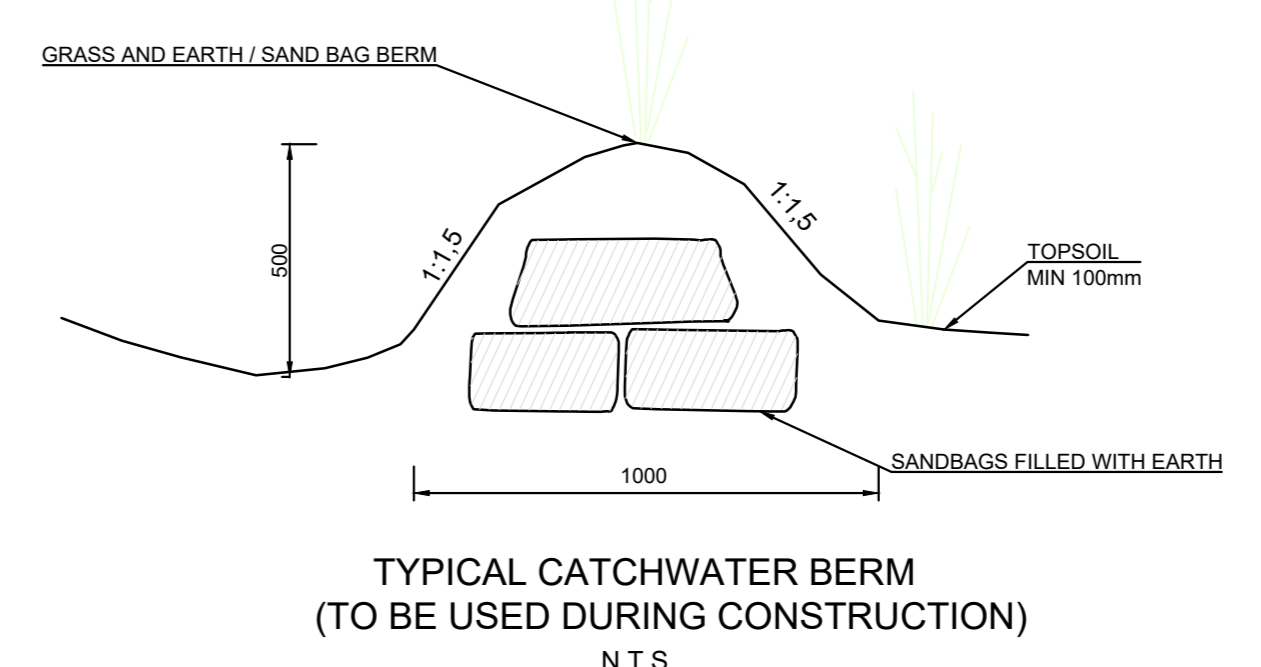
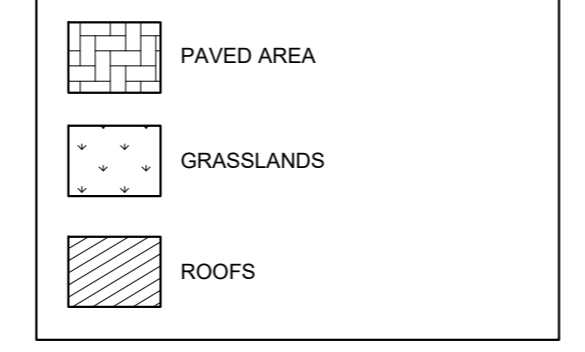
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 AKHA IZWE
 QUANTITY SURVEYORS
 67 8th Ave,
 Rondebosch East
 Cape Town
 7780
 TEL: 087 700 8601

STORMWATER MANAGEMENT PLAN
 SCALE 1:100

NOTE:

- ALL COVER LEVELS AND INVERT LEVELS ARE TO BE CONFIRMED ON SITE.
- ALL STORMWATER PIPES UNDER THE BUILDINGS AND DRIVEWAYS ARE TO BE ENCASED IN CONCRETE.
- EXISTING STORMWATER TO REMAIN INDEPENDANT.
- ALL R/W'S AND F/OS TO BE 110mm DIAMETER AND TO CONNECT INTO NEW PROPOSED STORMWATER LINES.

- STORMWATER DRAINAGE DURING CONSTRUCTION PHASE**
- ALL STORMWATER TO BE DEALT WITH ON SITE AND DRAINED TO A SUMP AT THE NORTH-WEST END OF THE SITE.
 - BERMS TO BE CREATED TO PREVENT THE EROSION OF ANY TEMPORARY BANKS DURING EXCAVATIONS.
 - MUNICIPAL SW CONNECTION TO BE APPLIED FOR BY THE OWNER.
 - CONTRACTOR TO ALLOW FOR ADDITIONAL SANDBAGS TO ASSIST IN CONTROLLING THE FLOW OF THE STORMWATER RUNOFF.



REV.	AMENDMENTS	APP.	DATE

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 CELL: 072 885 1004
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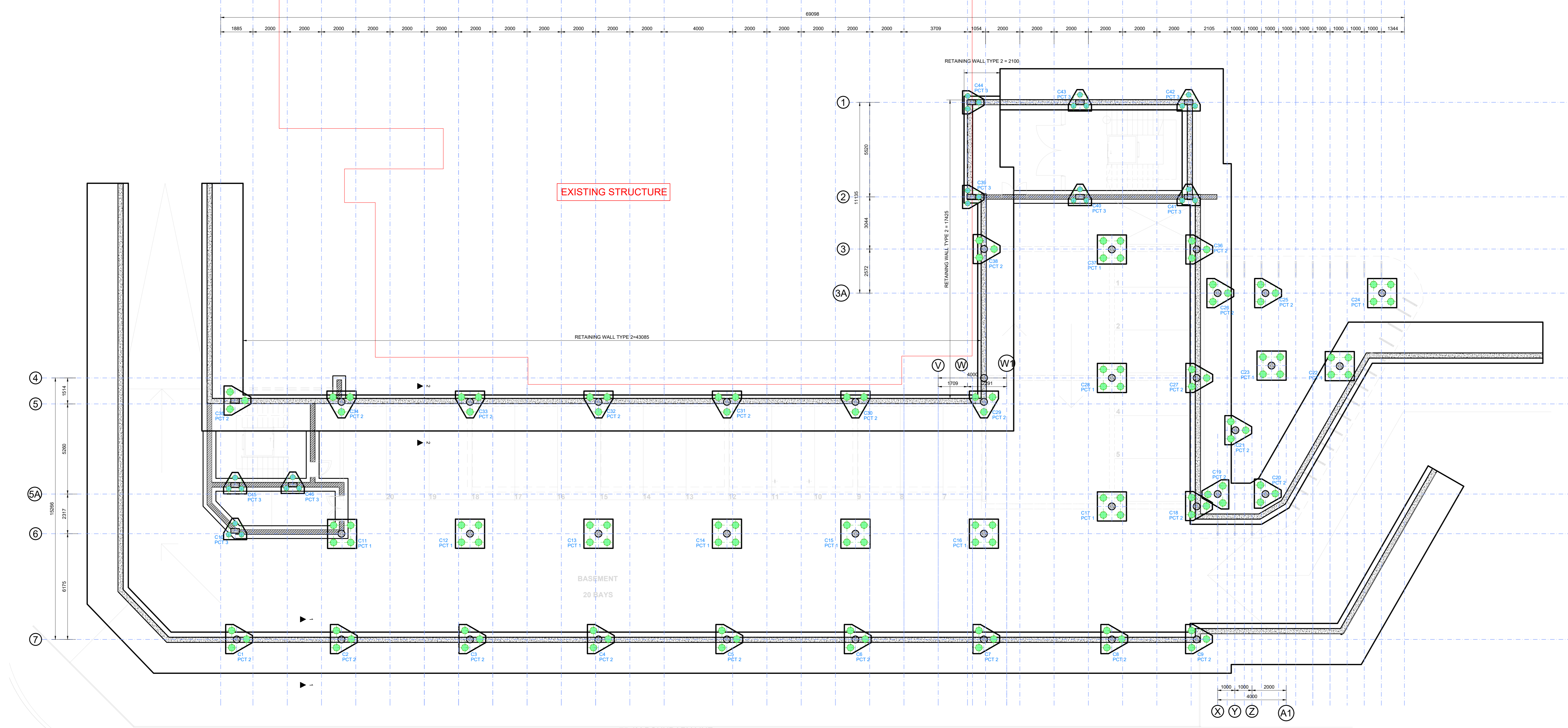
PROJECT:
 NORTHLINK TVET COLLEGE
 NEW ANNEX BUILDING AT CENTRAL OFFICES

TITLE:
 STORMWATER MANAGEMENT PLAN
 LAYOUT & SECTIONS

DESIGNED BY: E.NAIDOO DATE: 26/03/2024 DRAWING No.: 22430-S1
 DRAWN BY: E.NAIDOO SCALE: AS SHOWN REV: 0
 APPROVED BY: Y.PILLAY

PRELIMINARY LAYOUT
 FOR COSTING PURPOSES ONLY

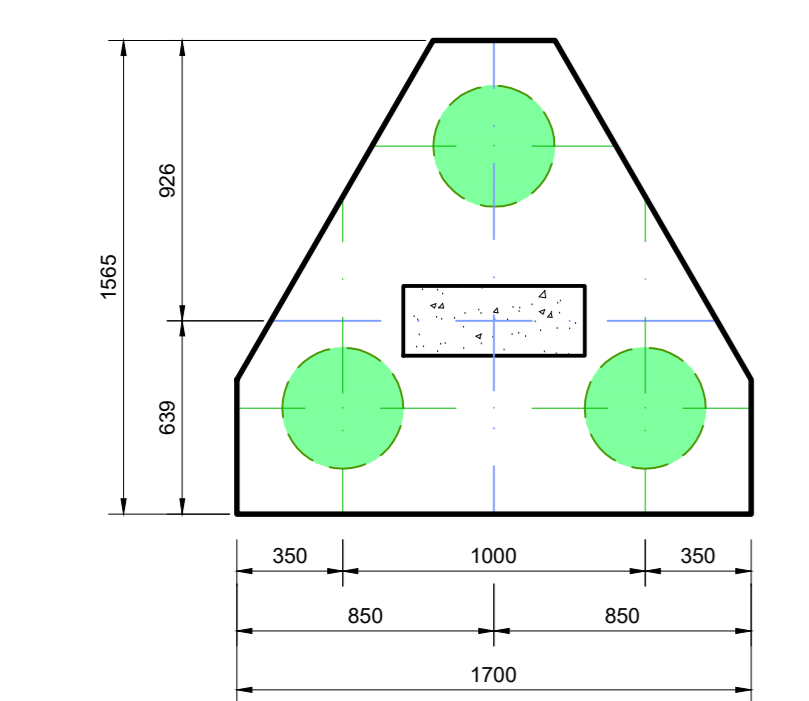
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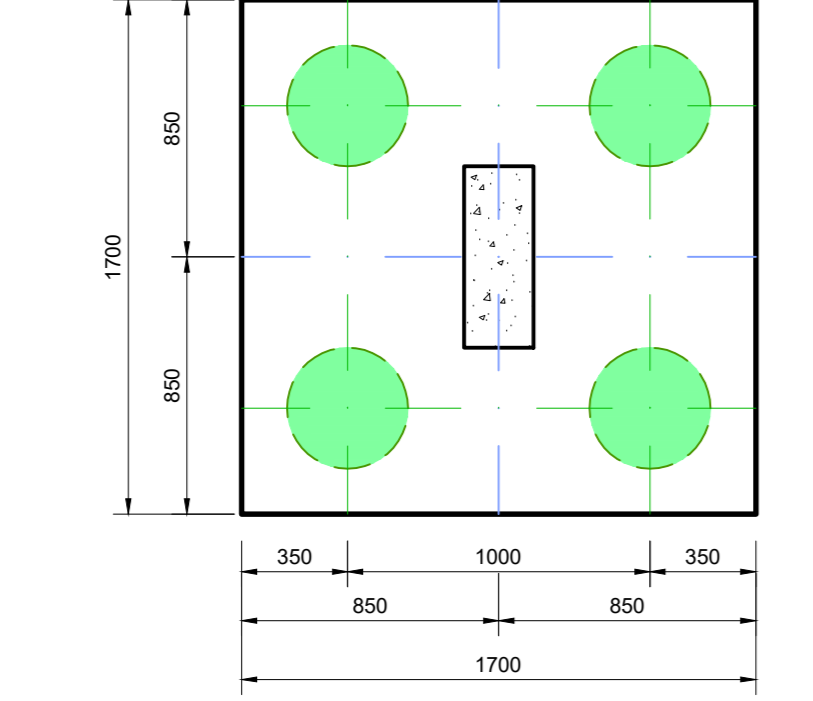
75.4M BOUNDARY LINE

VOORTREKKER ROAD

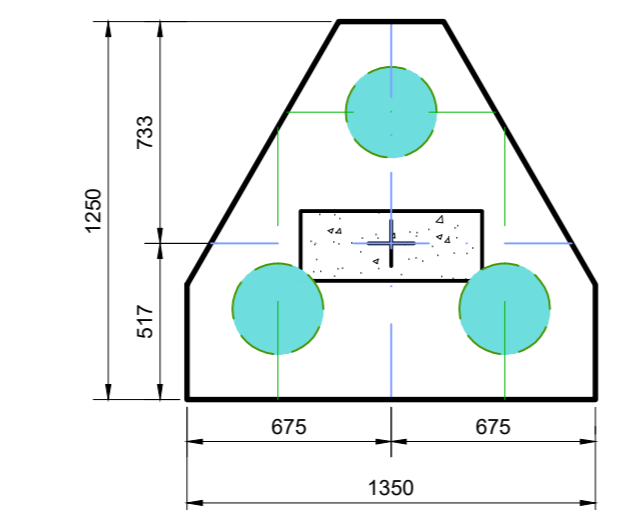
FOUNDATION LAYOUT
SCALE 1:100



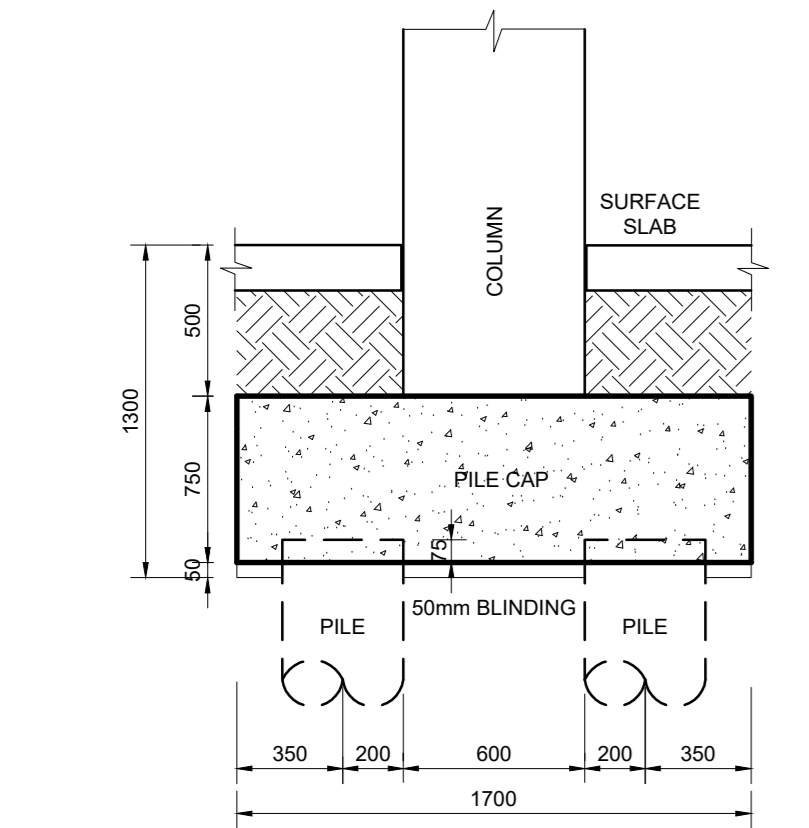
PLAN ON CAP FOR PCT 2
3 No. x 400 Ø PILES
SCALE 1:25



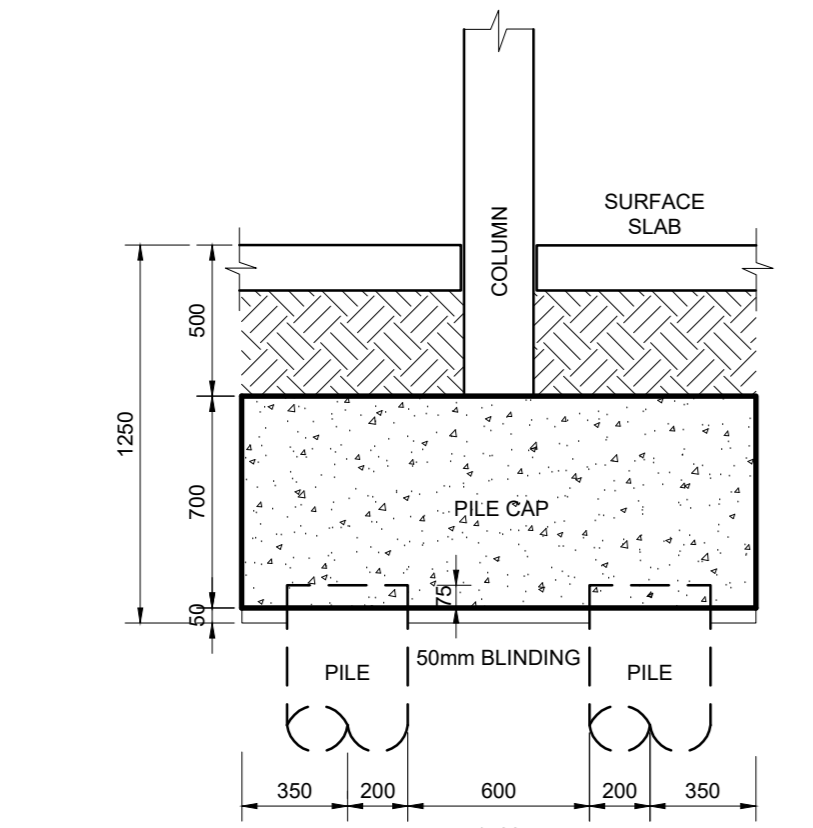
PLAN ON CAP FOR PCT 1
4 No. x 400 Ø PILES
SCALE 1:25



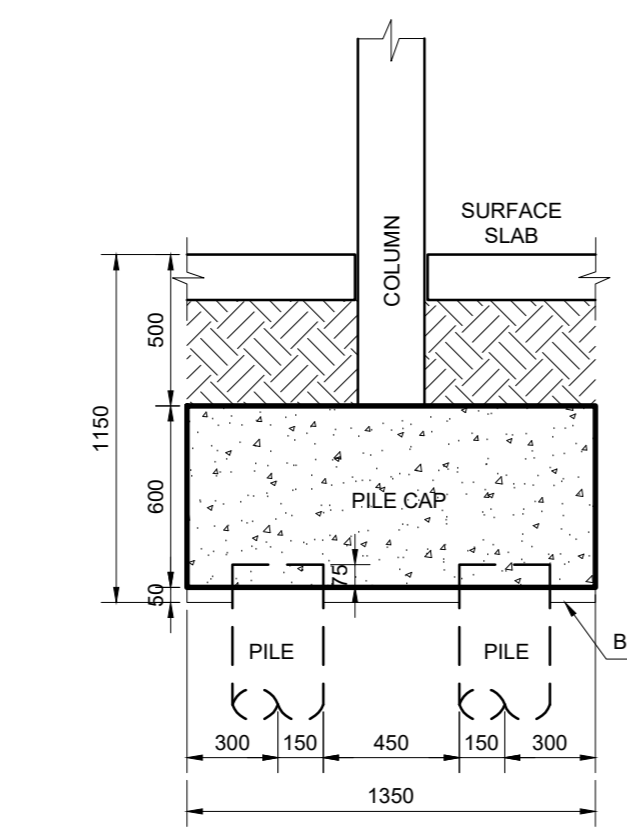
PLAN ON CAP FOR PCT 3
3 No. x 300 Ø PILES
SCALE 1:25



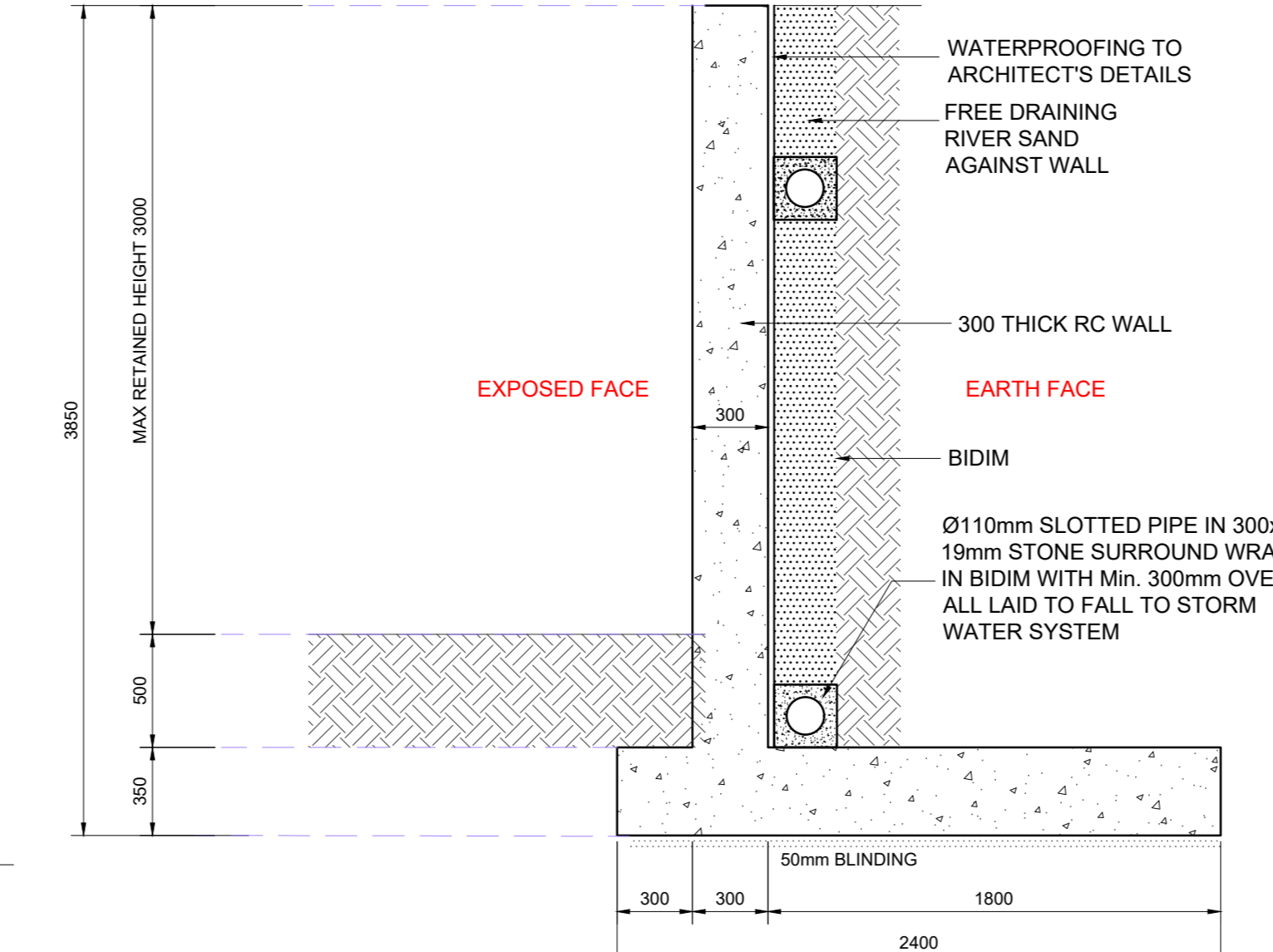
SECTION THROUGH CAP
FOR 3 PILE GROUP - 400 Ø PILES
SCALE 1:25



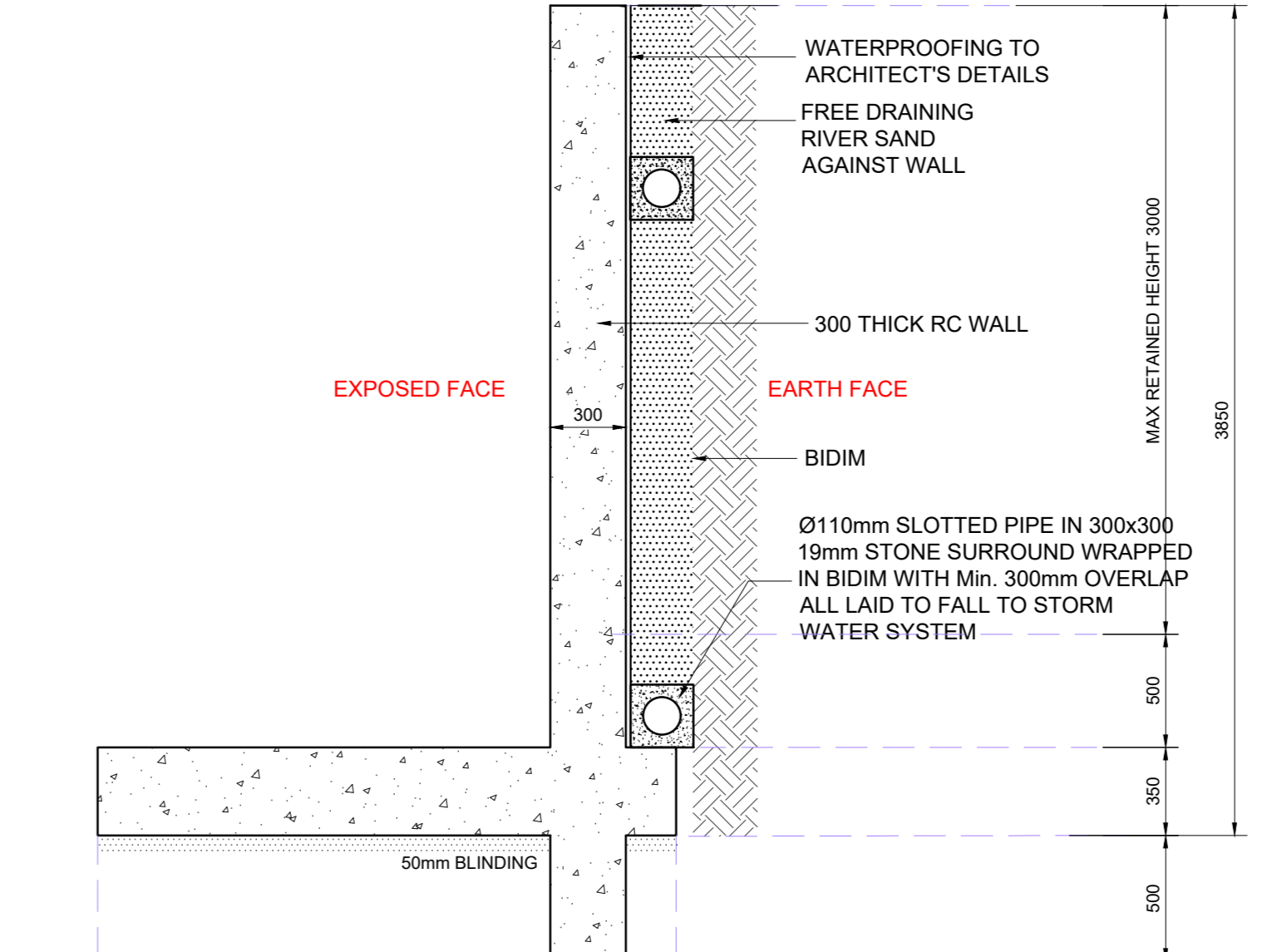
SECTION THROUGH CAP
FOR 4 PILE GROUP - 400 Ø PILES
SCALE 1:25



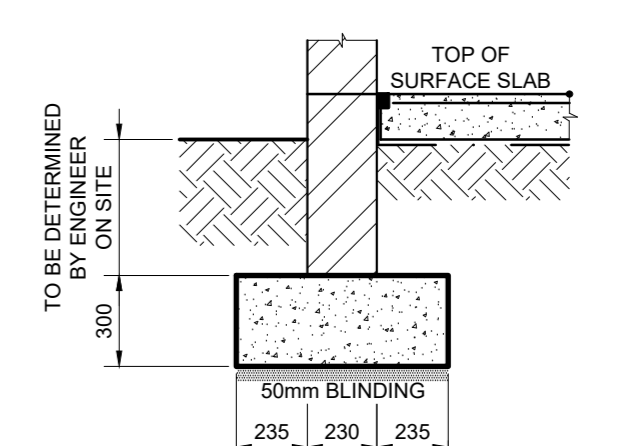
SECTION THROUGH CAP
FOR 3 PILE GROUP - 300 Ø PILES
SCALE 1:25



SECTION 1-1
RETAINING WALL TYPE 1
SCALE 1:25



SECTION 2-2
RETAINING WALL TYPE 1
SCALE 1:25



STRIP FOOTING FOR
230 WALLS
SCALE 1:25

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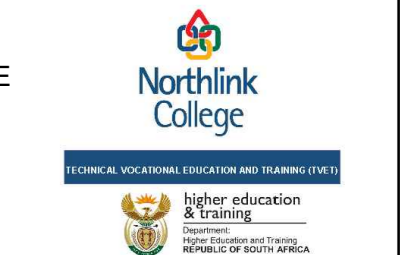
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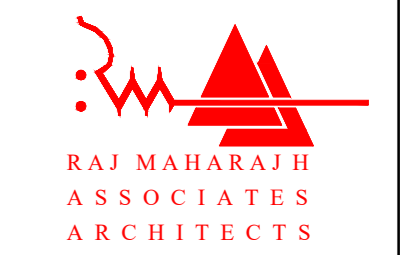
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PROJECT:
NORTHLINK TVET COLLEGE
NEW ANNEX BUILDING AT CENTRAL OFFICES

TITLE:
FOUNDATION LAYOUT & SECTIONS

DESIGNED BY: Y.PILLAY DATE: 25/03/2024 DRAWING No.: 22430-F1 REV.: 0
DRAWN BY: E.NAIDOO
APPROVED BY: Y.PILLAY SCALE: AS SHOWN

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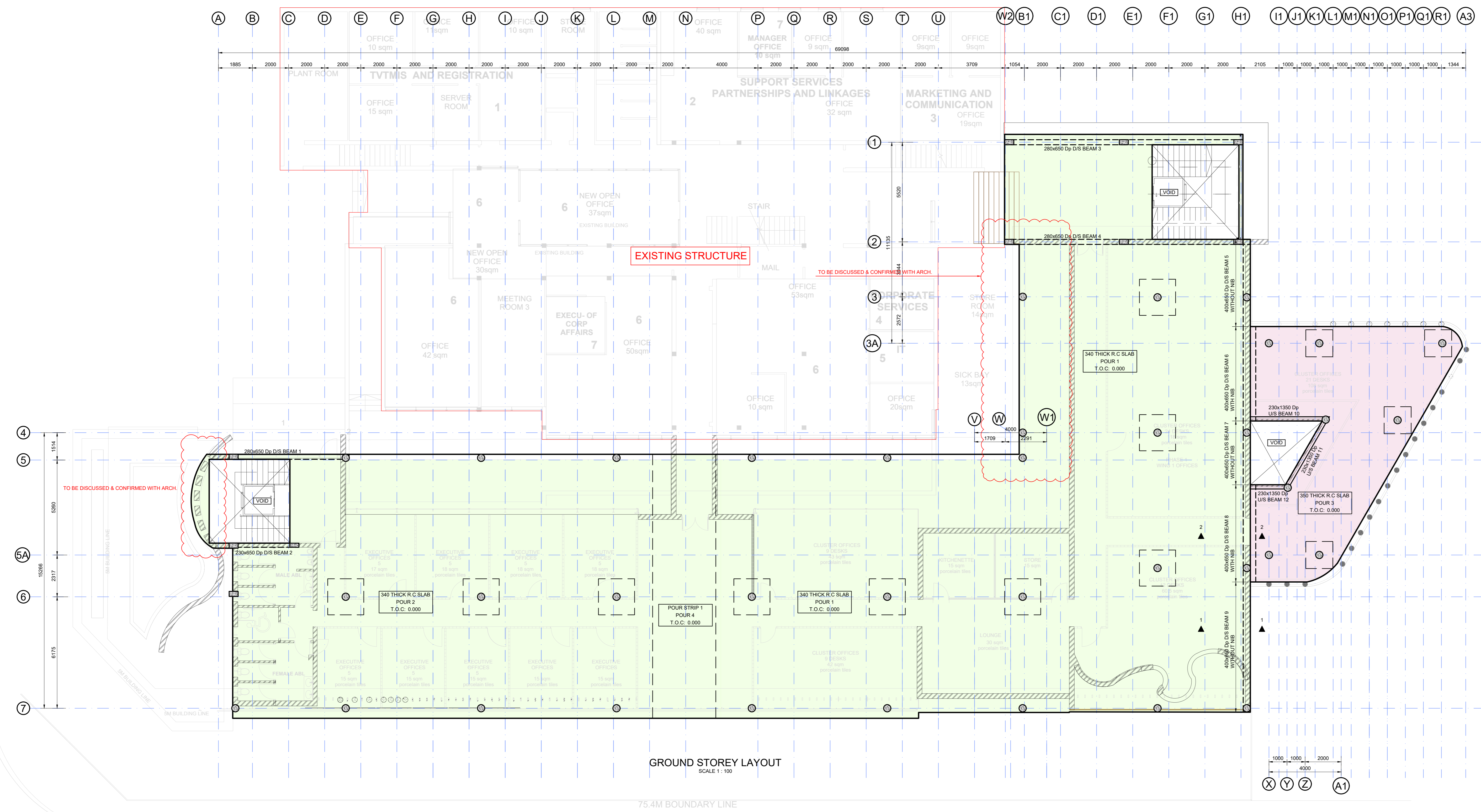
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 E-MAIL: yegor@hvkconsulting.co.za

PROJECT:
 NORTHLINK TVET COLLEGE
 NEW ANNEX BUILDING AT CENTRAL OFFICES

TITLE:
 GROUND FLOOR LAYOUT & SECTIONS

DESIGNED BY:	Y.PILLAY	DATE:	25/03/2024	DRAWING No.:	22430-GF	REV.	0
DRAWN BY:	E.NAIDOO	SCALE:	AS SHOWN				
APPROVED BY:	Y.PILLAY						

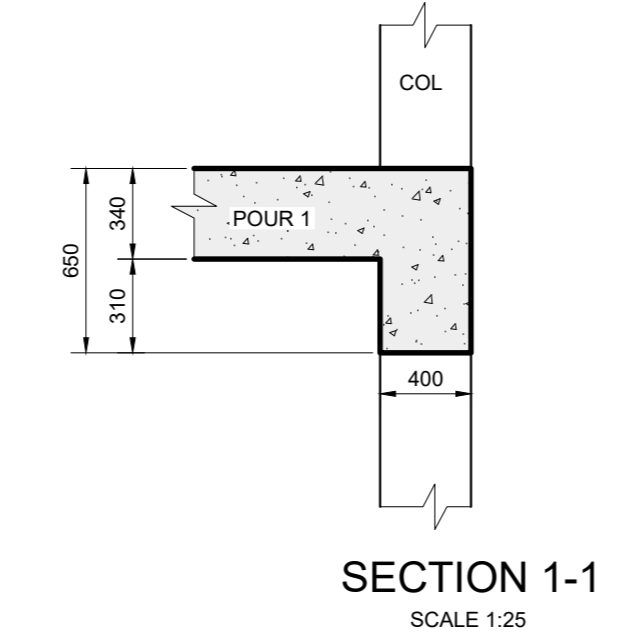
PRELIMINARY LAYOUT FOR COSTING PURPOSES ONLY



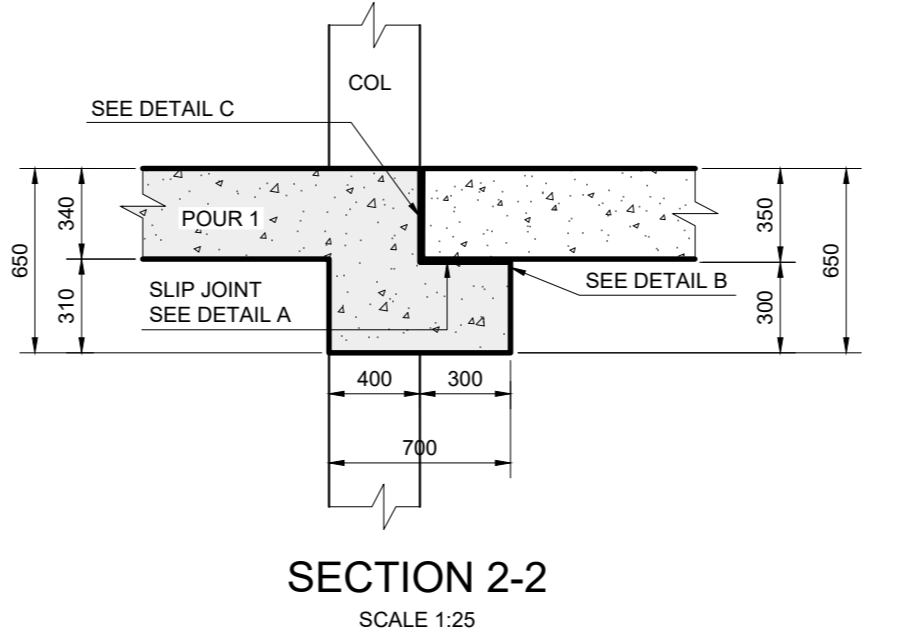
GROUND STOREY LAYOUT
 SCALE 1 : 100

75.4M BOUNDARY LINE

VOORTREKKER ROAD



SECTION 1-1
 SCALE 1:25



SECTION 2-2
 SCALE 1:25

- GENERAL NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.
 - ALL DIMENSIONS ARE IN mm AND ARE TO BE CHECKED ON SITE. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - BEAM SIZES ARE GIVEN BREADTH x DEPTH.
 - CONCRETE COVER TO REINFORCING TO BE MAINTAINED BY THE USE OF EITHER NYLON SPACERS OR PRECAST CONCRETE BLOCKS WITH BINDING WIRES CAST IN.
 - REINFORCED CONCRETE REQUIRED CHARACTERISTIC CUBE STRENGTH AT 28 DAYS:
 - FOUNDATIONS 25 MPa
 - COLUMNS 30 MPa
 - R.C. WALLS 30 MPa
 - BEAMS 30 MPa
 - SUSPENDED SLABS 30 MPa
 - STAIRS 30 MPa
 - BLINDING LAYER 15 MPa
 - ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE. MINIMUM 7 DAYS NOTICE IS REQUIRED FOR INSPECTION.
 - FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SAFE BEARING LOAD OF 150 kPa.
 - FLOORS ARE DESIGNED FOR A MAXIMUM CHARACTERISTIC IMPOSED LOAD LIVE LOAD OF 1.5kPa.
 - CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
 - FOUNDATIONS 50 mm
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 - R.C. WALLS 30 mm
 - BEAMS 30 mm
 - SUSPENDED SLABS 25 mm
 - STAIRS 20 mm
 - ALL WORK SHALL COMPLY WITH SABS 1200
 - DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH SABS 0100, 0102, 0103 & 0104 AS APPLICABLE.
 - THE WORKS WILL BE INSPECTED FROM TIME TO TIME BY THE CONSULTING ENGINEER TO ASCERTAIN THAT THE CONTRACTOR IS CARRYING OUT THE WORK IN GENERAL CONFORMITY WITH THE ENGINEERING DRAWINGS & DOCUMENTS. SUCH INSPECTIONS ARE NOT CARRIED OUT FOR THE BENEFIT OF THE CONTRACTOR, AND DO NOT RELIEVE HIM OF THE RESPONSIBILITY FOR THE PROPER CONSTRUCTION OF THE WORKS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS, DOCUMENTS AND GOOD BUILDING PRACTICE.
 - ALL WALLS INDICATED ARE LOADBEARING AND MUST BE CONSTRUCTED TO FULL HEIGHT BEFORE ANY CONCRETE IS CAST.
 - ALL LOAD BEARING BRICKWORK TO HAVE A MINIMUM CRUSHING STRENGTH OF 14MPa, MORTAR CLASS 1 - 1.3.
 - SLIP JOINT TO BE PROVIDED ON TOP OF ALL LOAD BEARING BRICKWORK TO BREAK THE BOND BETWEEN BRICKWORK AND CONCRETE.
 - ALL FLOOR LEVELS, UNLESS OTHERWISE INDICATED, ARE STRUCTURAL SLAB LEVELS.

ALL MATERIALS & WORKMANSHIP TO BE IN ACCORDANCE WITH THE RELEVANT SABS SPECIFICATION.

ALL WORK TO BE CONTINUED IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS, ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY ACT, LATEST REVISION & THE CONSTRUCTION REGULATIONS.

THE MAIN CONTRACTOR IS TO ENSURE THAT A COMPETENT PERSON, APPROVED BY THE SOUTH AFRICAN QUALIFICATION AUTHORITY SUPERVISES AND APPROVES ALL ASPECTS OF THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, LATEST REVISION.

ALL TEMPORARY WORKS TO BE DESIGNED, DETAILED, SUPERVISED AND CERTIFIED BY A COMPETENT PERSON OR PROFESSIONAL ENGINEER AS DEFINED IN THE OHS ACT.

QUANTITY SURVEYORS

SOUTHCAPE TVET COLLEGE
125 MITCHELL STREET
GEORGE
6530
TEL: 0448840359

ARCHITECTS:

RMA ARCHITECTS
6 SHIRLEY STREET
NEWTON PARK
PORT ELIZABETH
TEL: 0419552999
SACAP: 4535

QUANTITY SURVEYORS:

AKHA ISWE QS
67 8th Ave,
Rondebosch East
Cape Town
7780
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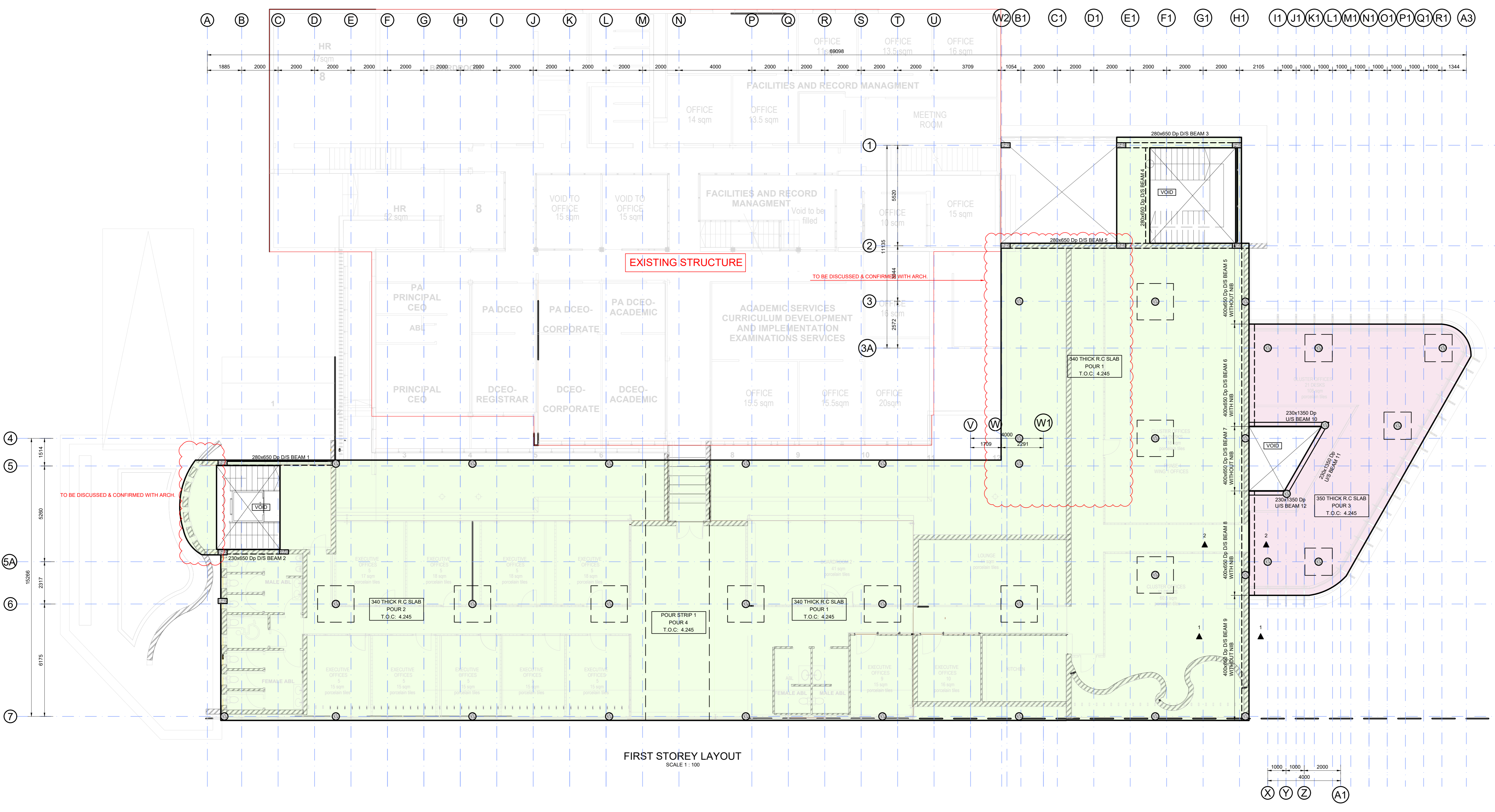
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PROJECT:
**NORTHLINK TVET COLLEGE
NEW ANNEX BUILDING AT CENTRAL OFFICES**

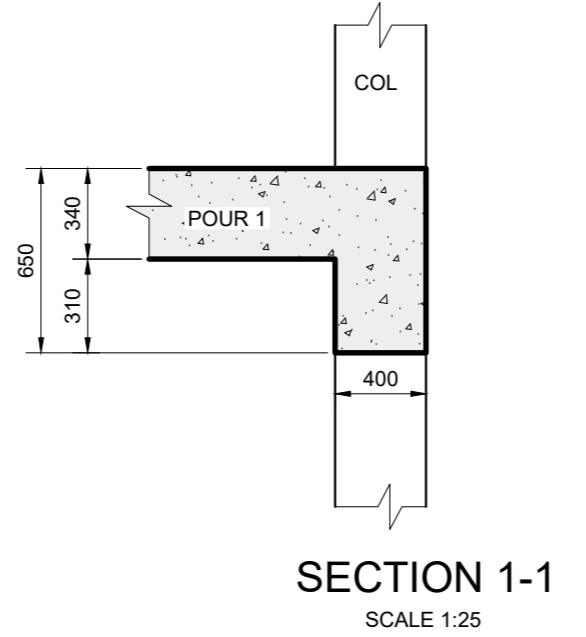
TITLE:
FIRST FLOOR LAYOUT & SECTIONS

DESIGNED BY:	Y.PILLAY	DATE:	25/03/2024	DRAWING No.:	REV.
DRAWN BY:	E.NAIDOO	SCALE:	AS SHOWN	22430-01	0
APPROVED BY:	Y.PILLAY				

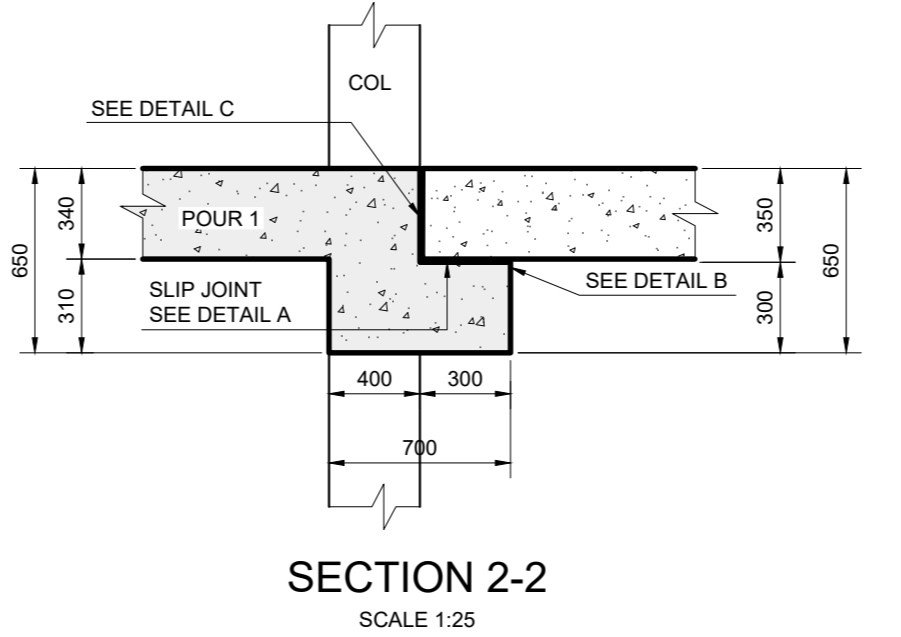
**PRELIMINARY LAYOUT
FOR COSTING PURPOSES ONLY**



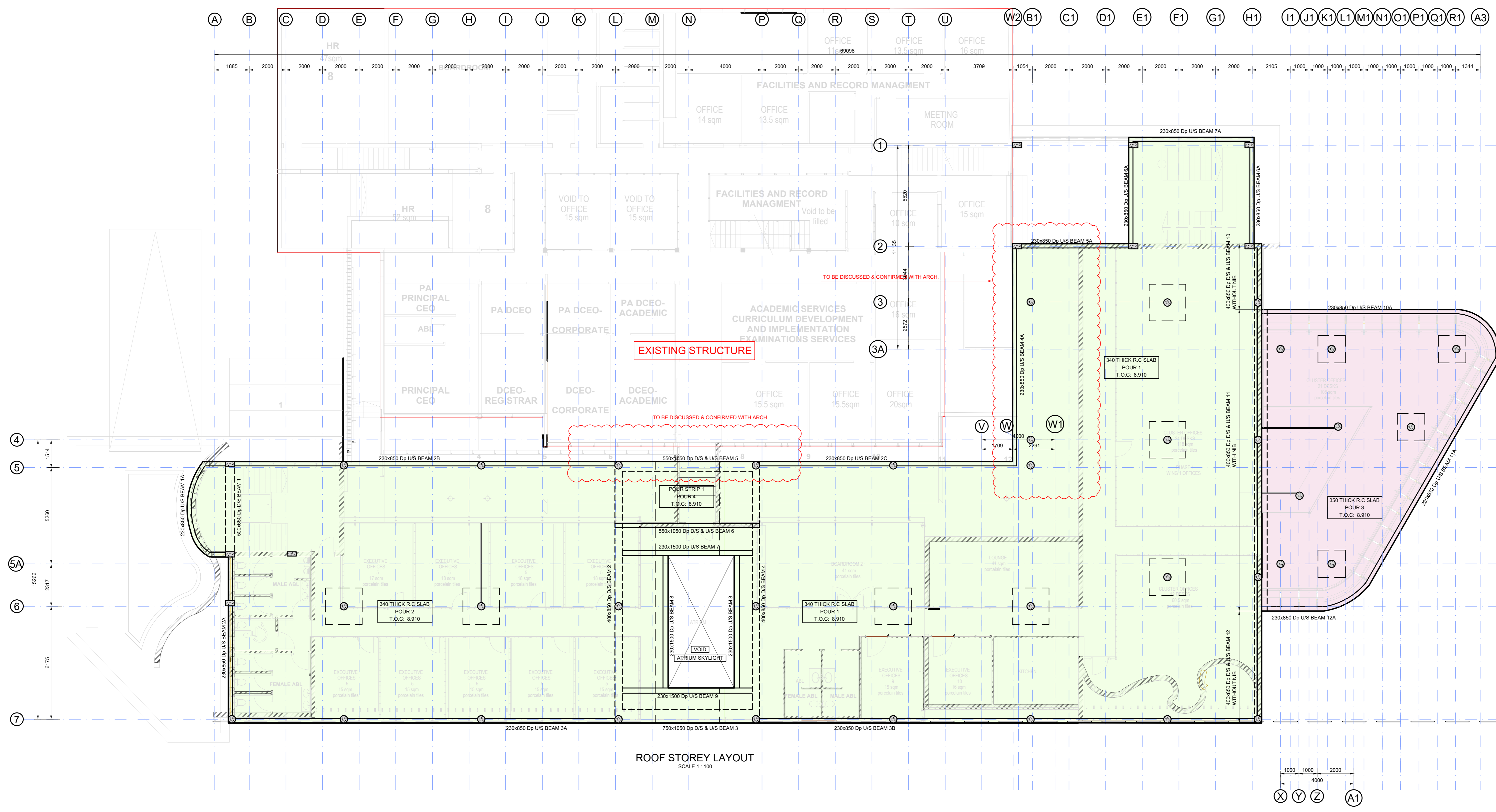
FIRST STOREY LAYOUT
SCALE 1:100



SECTION 1-1
SCALE 1:25



SECTION 2-2
SCALE 1:25



ROOF STOREY LAYOUT
SCALE 1:100

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STAIRS 30 MPa
BLINDING LAYER 15 MPa
 - ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE. MINIMUM 1 DAYS NOTICE IS REQUIRED FOR INSPECTION.
 - FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SAFE BEARING LOAD OF 150 kPa.
 - FLOORS ARE DESIGNED FOR A MAXIMUM CHARACTERISTIC IMPOSED LOAD LEVEL LOAD OF 1.5kPa.
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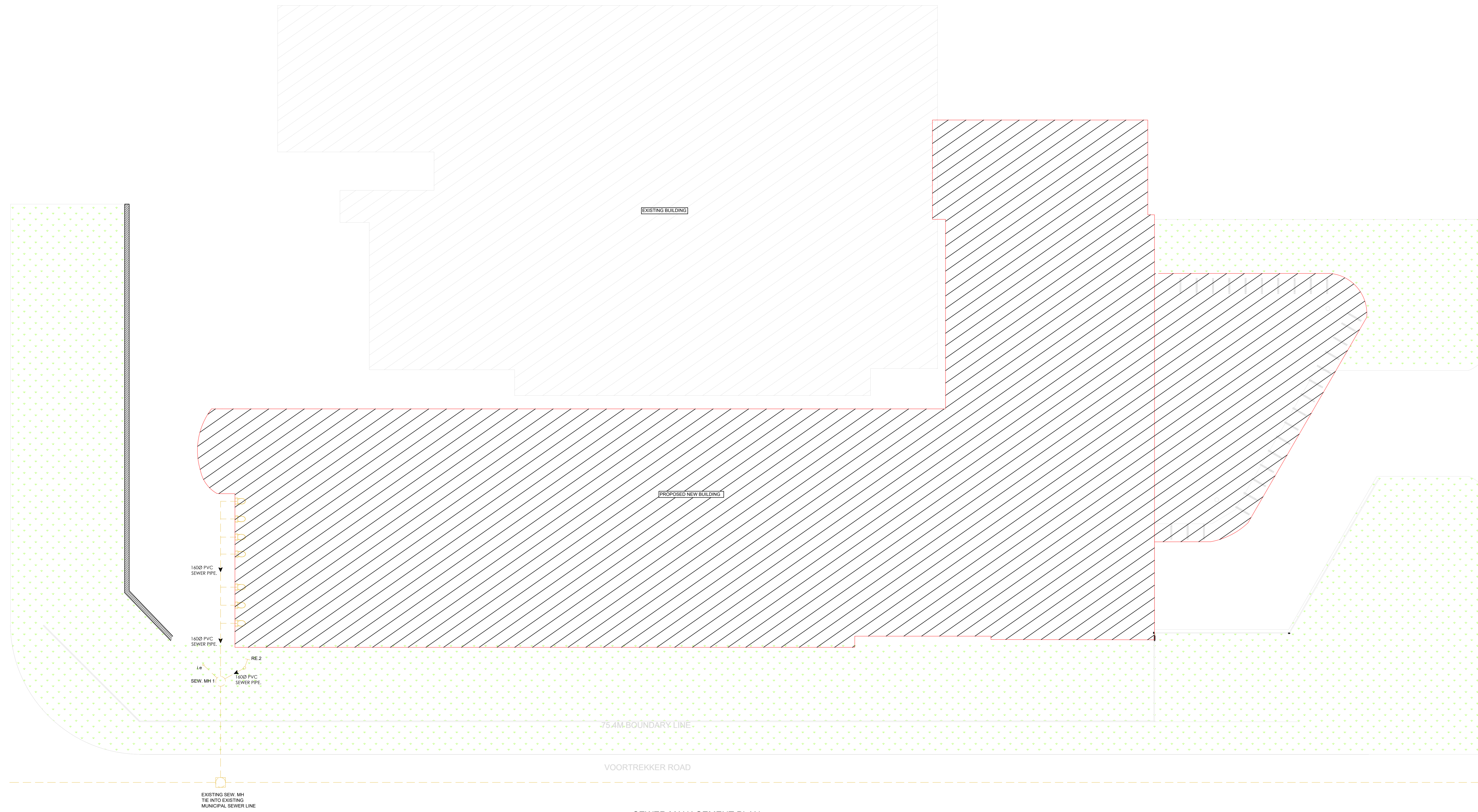
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PROJECT:
NORTHLINK TVET COLLEGE
NEW ANNEX BUILDING AT CENTRAL OFFICES

TITLE:
ROOF LAYOUT & SECTIONS

DESIGNED BY:	Y.PILLAY	DATE:	25/03/2024	DRAWING No.	REV.
DRAWN BY:	E.NAIDOO	SCALE:	AS SHOWN	22430-R	0
APPROVED BY:	Y.PILLAY				

PRELIMINARY LAYOUT
FOR COSTING PURPOSES ONLY



SEWER MANAGEMENT PLAN
SCALE 1:100

- GENERAL NOTES**
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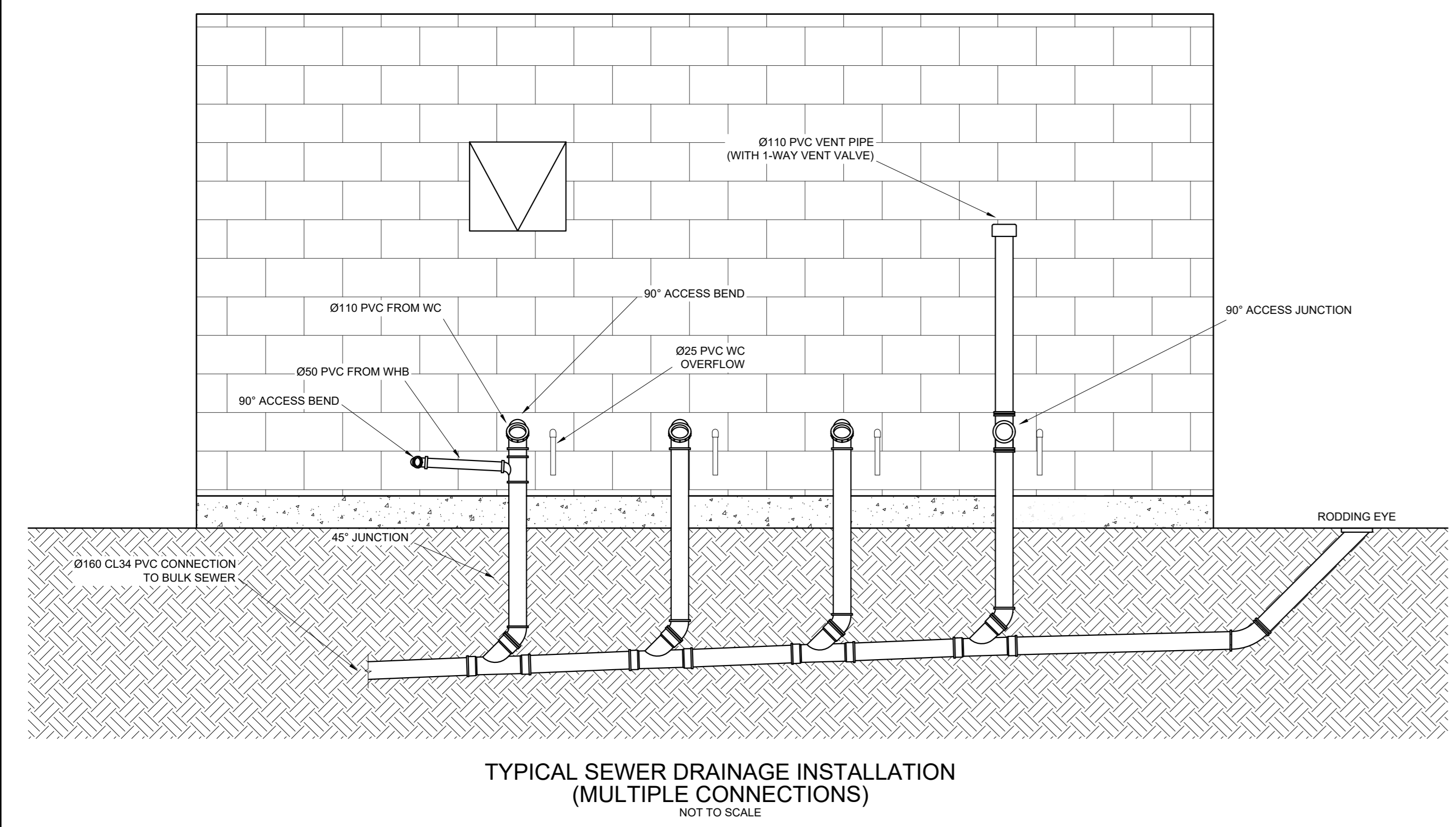
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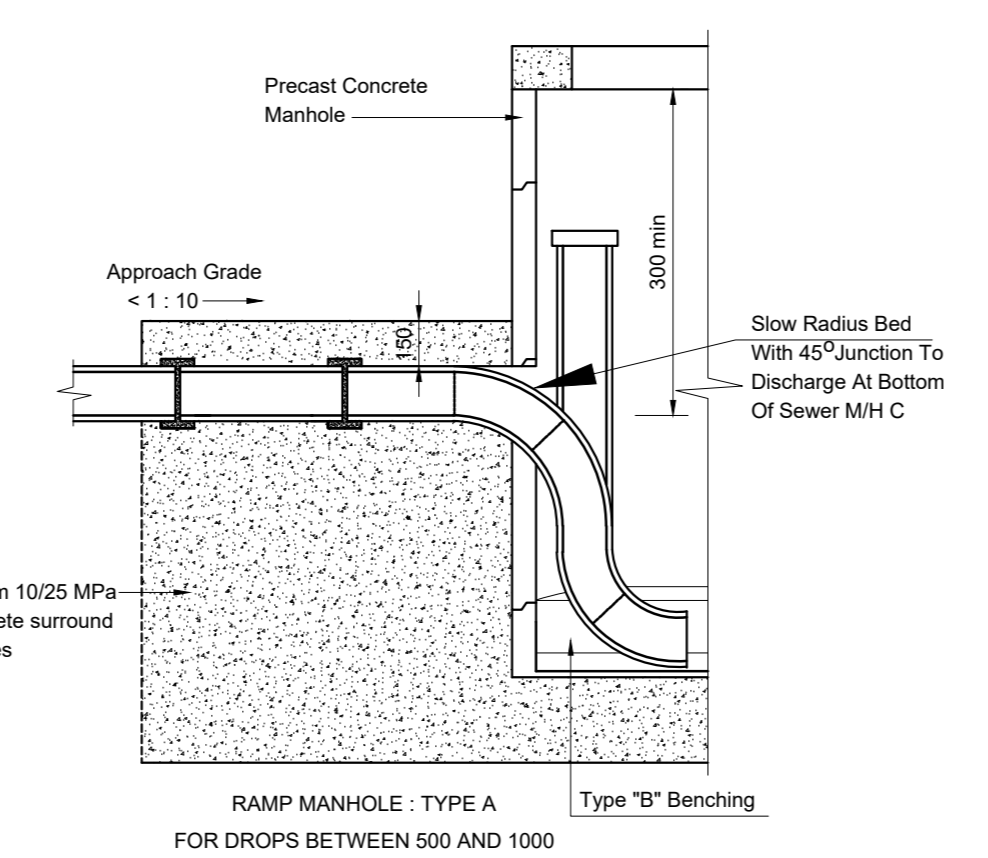
CLIENT :
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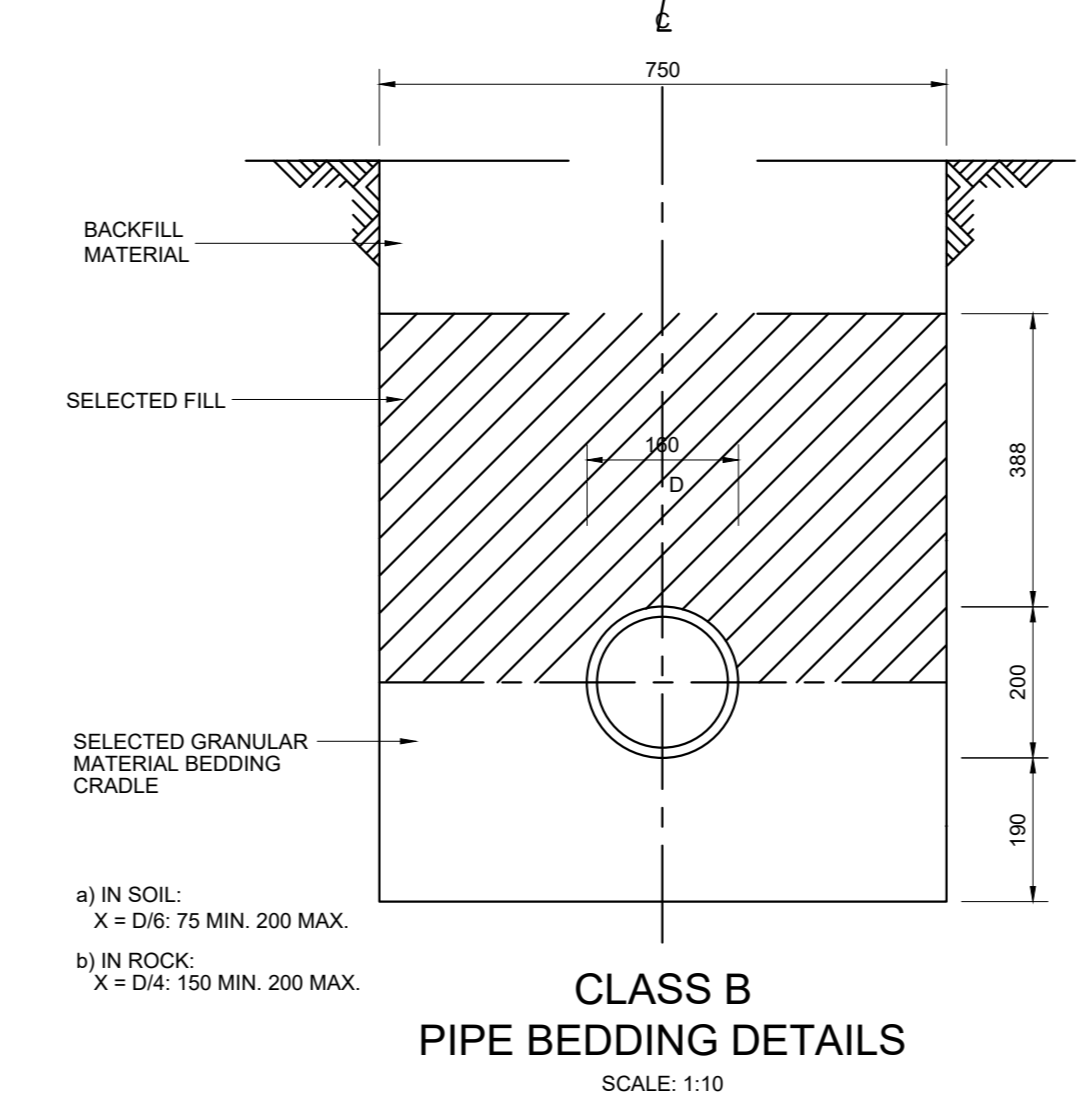
- NOTE 1:**
1. ALL SEWER PIPES TO BE 1600 MPVC CLASS 'A' SOLID WALL.
2. ALL TRENCHES DEEPER THAN 1m DEEP MUST BE SHORED!
- NOTE 2:**
ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL MUNICIPALITY STANDARDS.
- NOTE 3:**
POSITION, COVER & INVERT LEVELS OF EXISTING MUNICIPAL MANHOLES TO BE CHECKED PRIOR TO ANY CONSTRUCTION TAKING PLACE.
- NOTE 4:**
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 22430-SE1.
2. WHERE APPROACH GRADES INTO THE MANHOLE ARE 1:15 OR STEEPER AND ASSOCIATED WITH A CHANGE IN DIRECTION IN THE MANHOLE OF 90° OR MORE, THE BENCHING IS TO BE BROUGHT UP TWO PIPE DIAMETERS ABOVE THE PIPE INVERT (TYPE 'B' BENCHING SEWERS).
3. DIMENSION VARIES WITH THE DIAMETER OF THE SEWER PIPES AND SHALL BE TO A POINT 50mm ABOVE THE HIGHEST CROWN OF THE PIPES.
4. REINFORCING FOR MANHOLE BENCHING SHALL CONSIST OF ONE PART A/C TO TWO PARTS SAND THOROUGHLY MIXED AND APPLIED TO CONCRETE SURFACES WHILE THE LATTER ARE STILL GREEN. REINFORCING SHALL BE AT LEAST 20mm THICK.



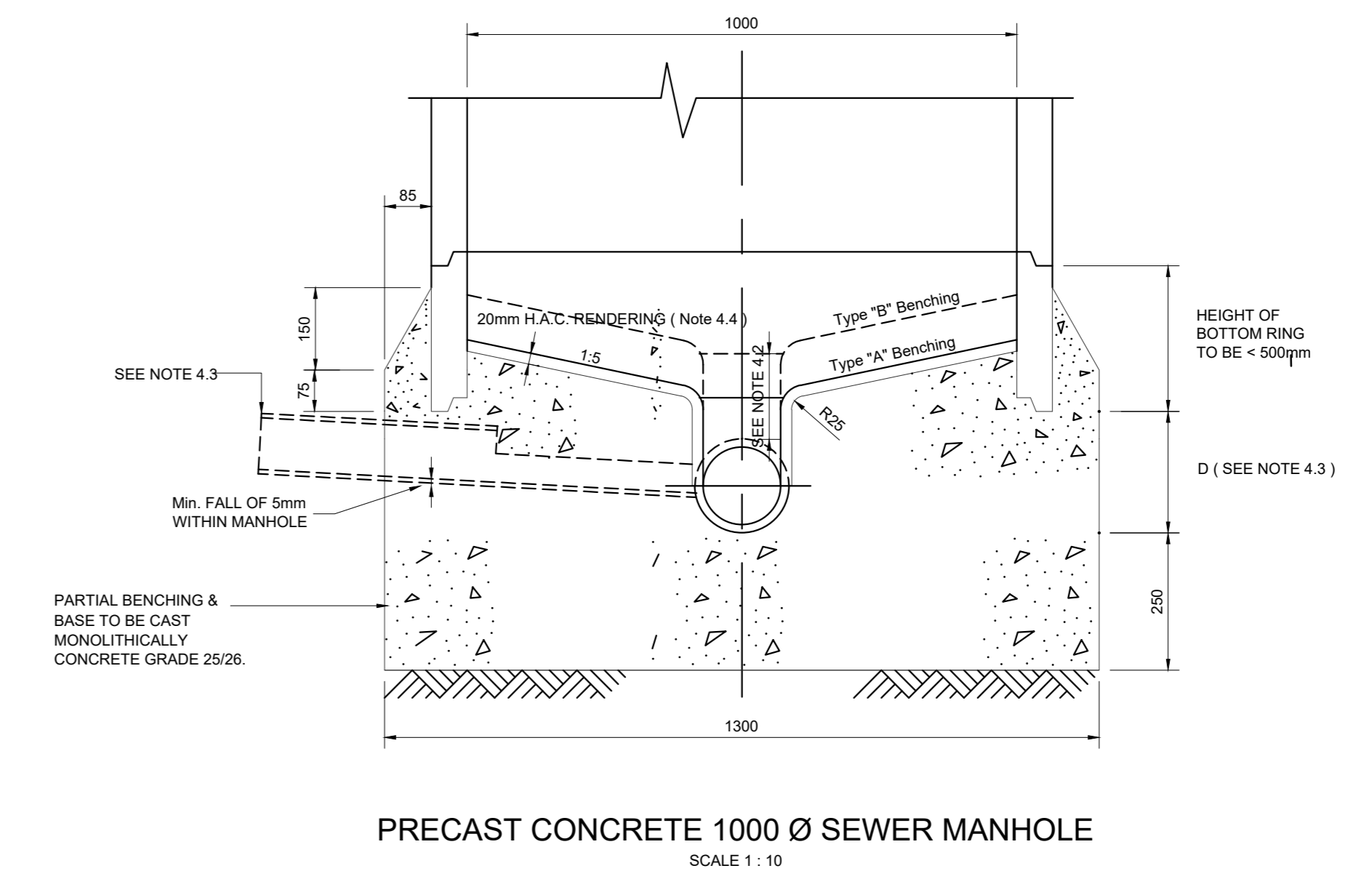
TYPICAL SEWER DRAINAGE INSTALLATION (MULTIPLE CONNECTIONS)
NOT TO SCALE



STANDARD FITTING FOR RAMP AND BACKDROP MANHOLES.
NOT TO SCALE



CLASS B PIPE BEDDING DETAILS
SCALE: 1:10



PRECAST CONCRETE 1000 Ø SEWER MANHOLE
SCALE: 1:10

REV.	AMENDMENTS	APP.	DATE

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PROJECT:
NORTHLINK TVET COLLEGE
NEW ANNEX BUILDING AT CENTRAL OFFICES

TITLE:
SEWER MANAGEMENT PLAN,
SECTIONS & DETAILS

DESIGNED BY:	E.NAIDOO	DATE:	25/04/2024	DRAWING No.	22430-SE1	REV.	0
DRAWN BY:	E.NAIDOO	SCALE:	AS SHOWN				
APPROVED BY:	Y.PILLAY						

PRELIMINARY LAYOUT
FOR COSTING PURPOSES ONLY