



NOTES

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2. CONTRACTOR KEPT A FULL SET OF DRAWINGS ON SITE.
3. CONTRACTOR WAS RESPONSIBLE FOR CORRECT SETTING OUT OF BUILDINGS ON SITE WITH PARTICULAR INTEREST TO BOUNDARIES AND BUILDING LINES.
4. CONTRACTOR VERIFIED ALL LEVELS AND DIMENSIONS ON SITE.
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6. LARGE SCALE DETAILS WERE USED WHERE AVAILABLE.
7. CONTRACTOR HAD IDENTIFIED AND EXPOSED ALL UNDER GROUND SERVICES ON SITE WHERE RELEVANT. CONTRACT SPECIFICATIONS OR SABS 1200.
8. CONSTRUCTION WAS IN ACCORDANCE WITH ALL RELEVANT DRAWINGS.
9. WHEN THE ENGINEER BE REQUIRED ON SITE, 48 HOURS NOTICE WAS GIVEN.

LEGEND

No.	DATE	REVISION	INIT.

CLIENT



FUNDER

RECOMMENDED	APPROVED
DESIGNED: F.D	CONTRACT No. SLM/SCM/65/2025/2026
DRAWN: F.D	CHECKED: T.T
ENGINEER: T.T	DATE: 15-05-2026

IMBUMBA CONSULTANTS

Engineering & Project Management Consultants

Office:
MOUNT AYLIFF
P.O. BOX 83
MOUNT AYLIFF
4735
Phone: +27-72-310-4326
Fax: +27-86-660-6810



Email: smtoba@yahoo.com
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PROGRAM
PROJECT PAVING OF POLAR PARK ACCESS ROAD-PHASE 1
DRAWING TITLE ROAD 1 GENERAL LAYOUT
SUB-TITLE

LAYOUT	DRAWING No.: SLM-PPAR-26-01-LP-02
SCALE: AS SHOWN	PROJECT No.: 26-01
	SHEET SIZE: A1



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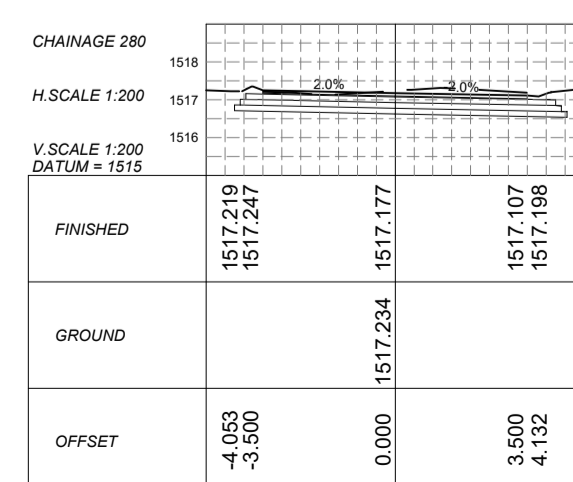
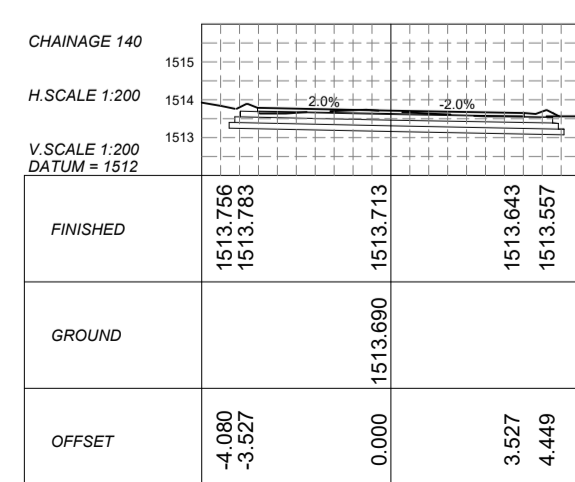
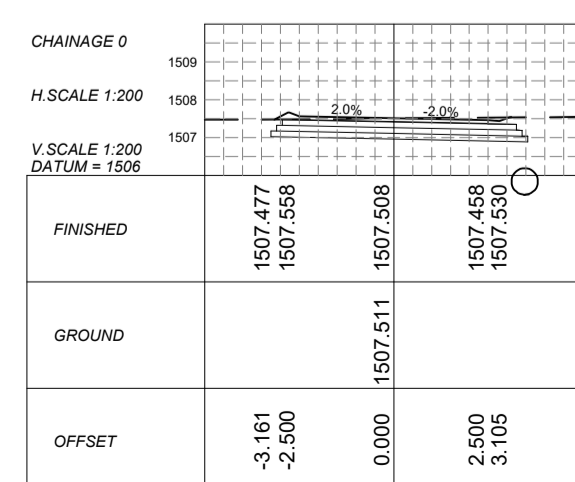
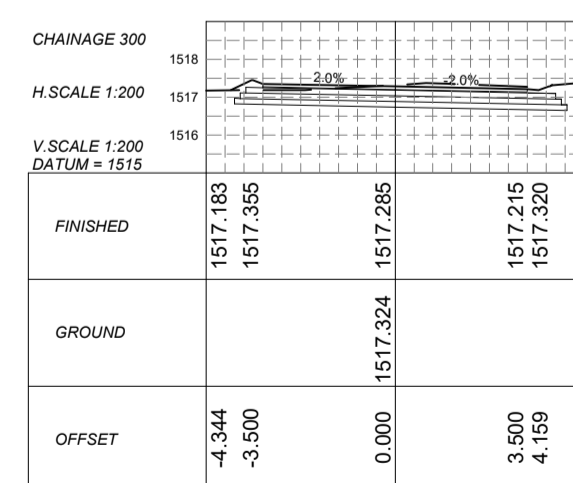
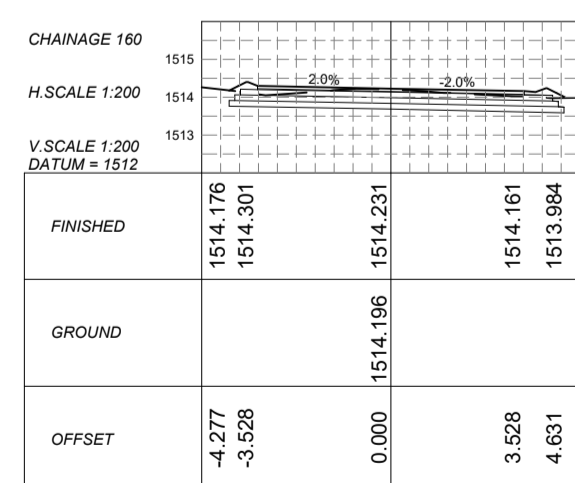
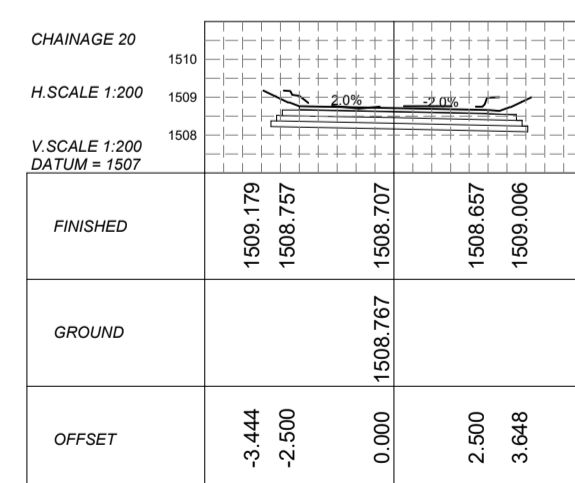
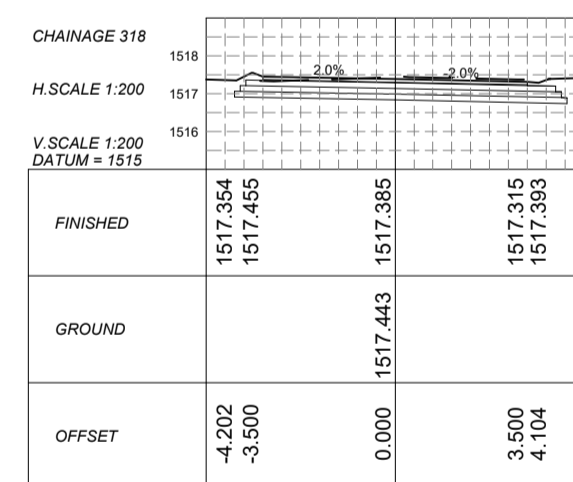
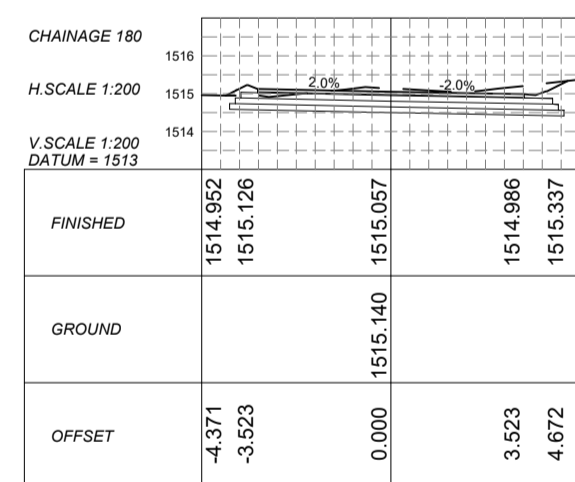
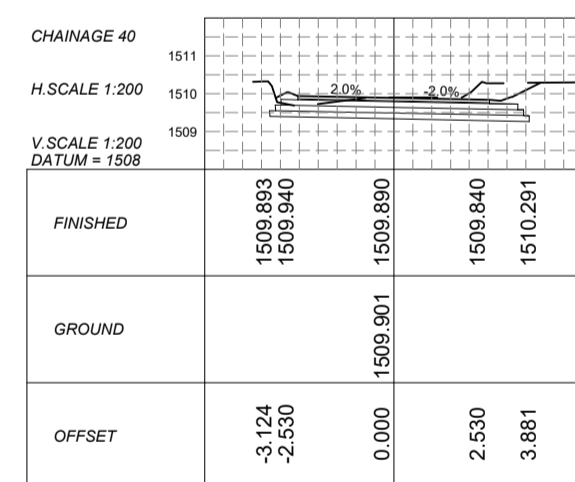
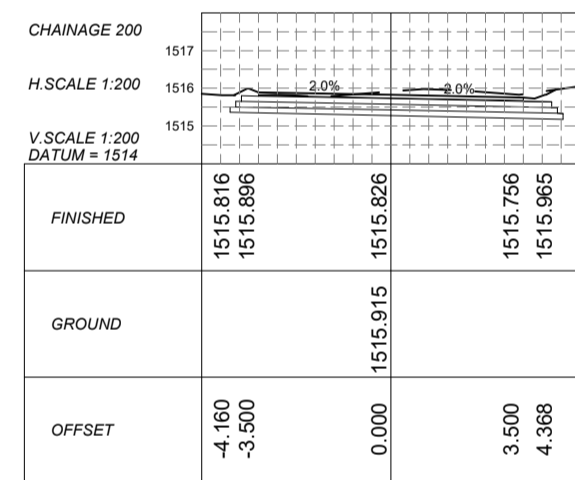
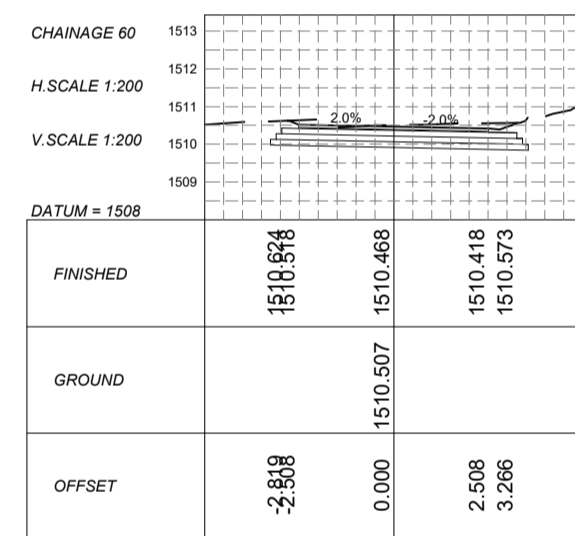
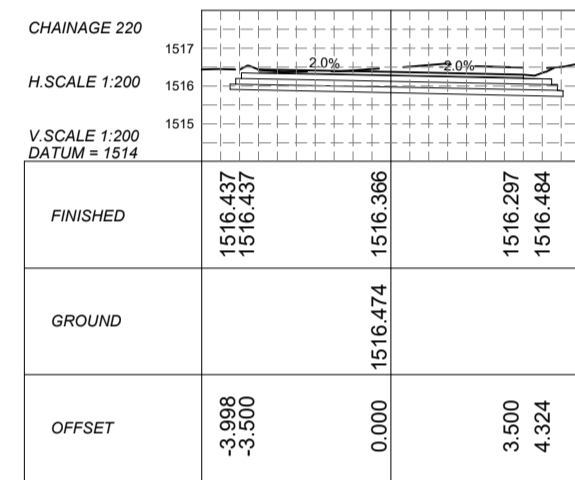
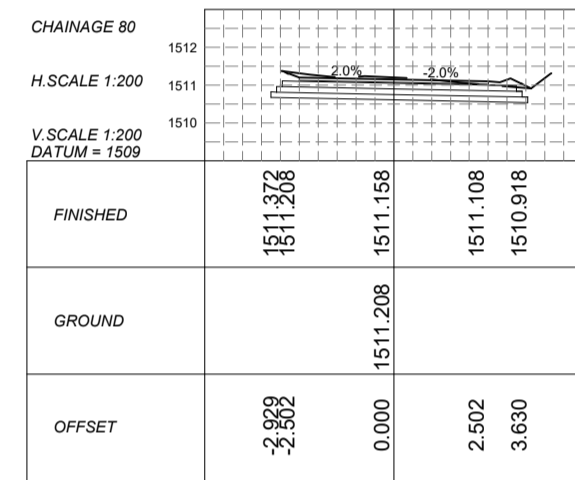
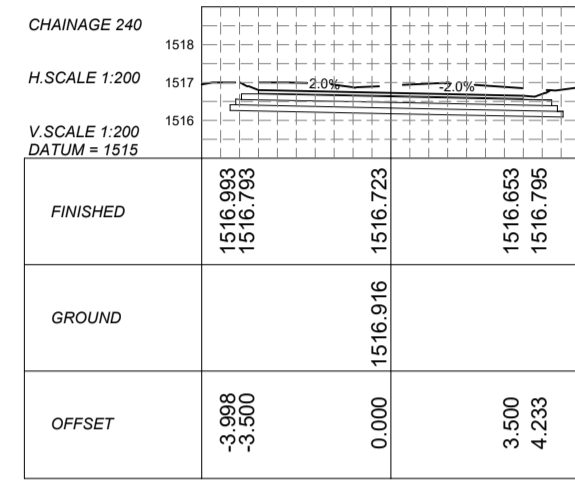
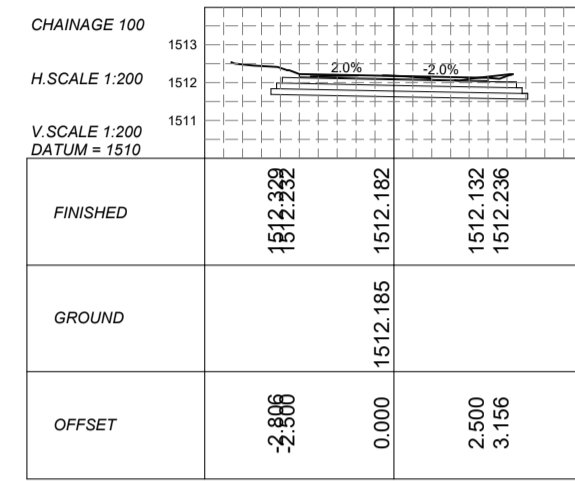
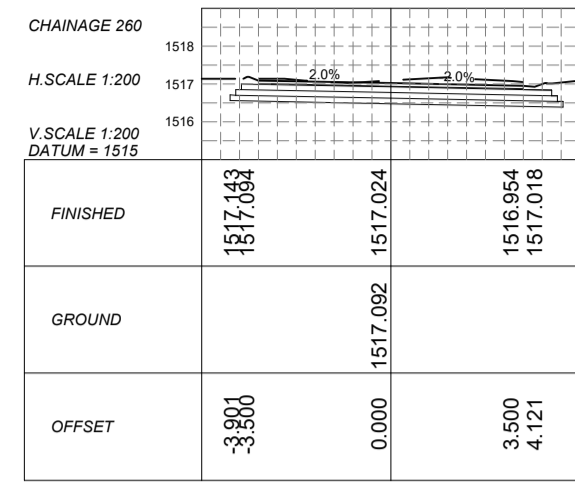
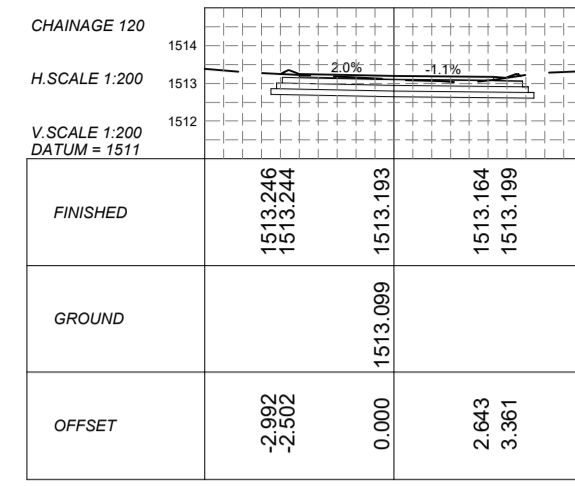
PROGRAM

PROJECT
PAVING OF POLAR PARK
ACCESS ROAD-PHASE 1

DRAWING TITLE
ROAD 2 GENERAL LAYOUT

SUB-TITLE

LAYOUT	DRAWING No.: SLM-PPAR-26-01-LP-03
SCALE: AS SHOWN	SHEET SIZE: A1
PROJECT No.: 26-01	



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LEGEND

No.	DATE	REVISION	INIT.

CLIENT



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DESIGNED: F.D	CONTRACT No. SLM/SCM/65/2025/2026
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ENGINEER: T.T	DATE: 15-05-2026

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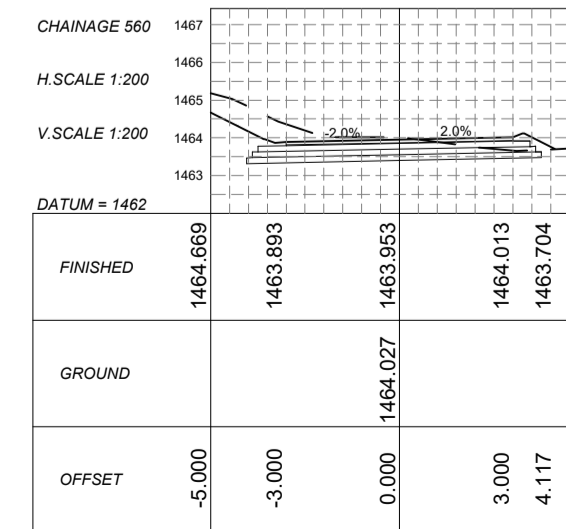
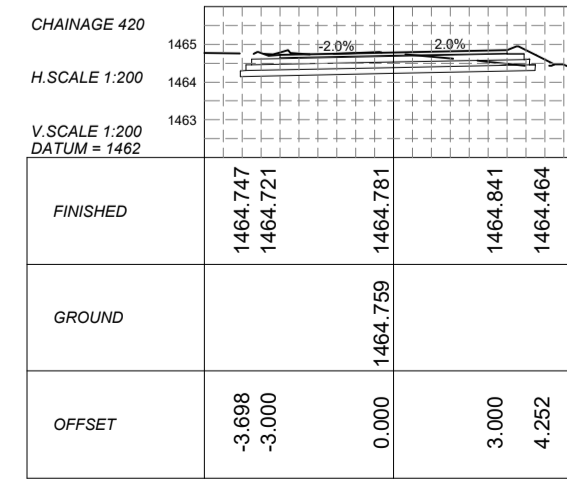
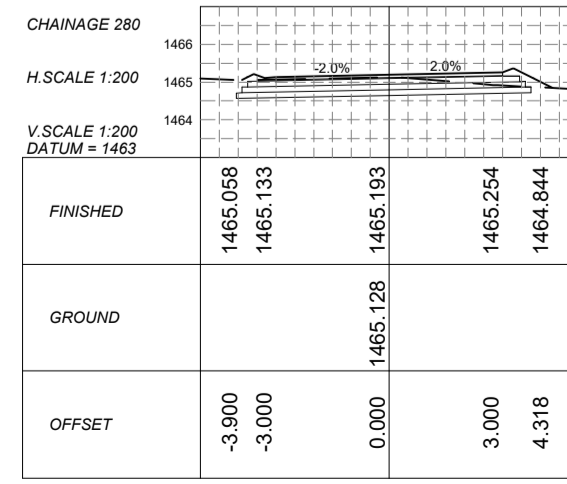
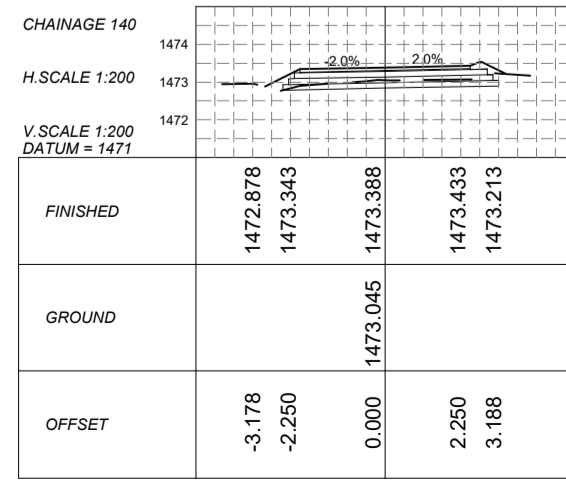
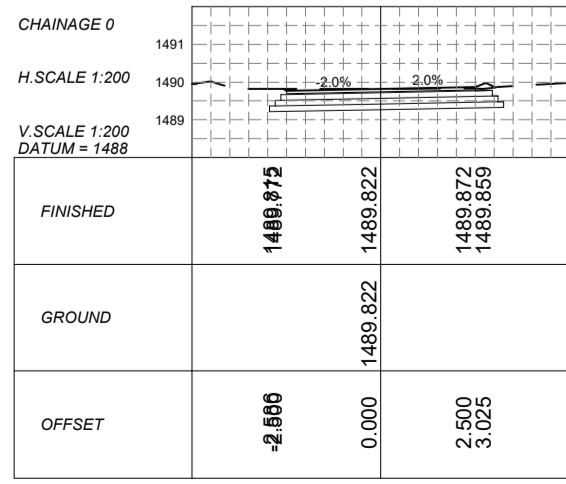
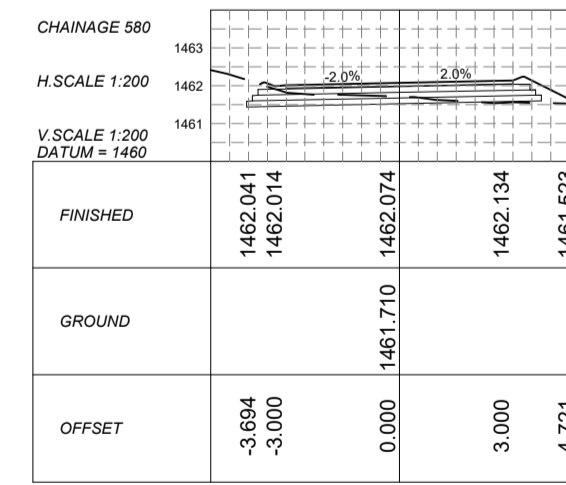
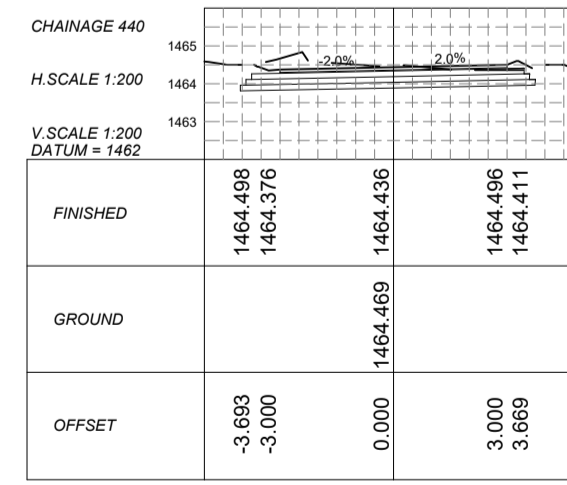
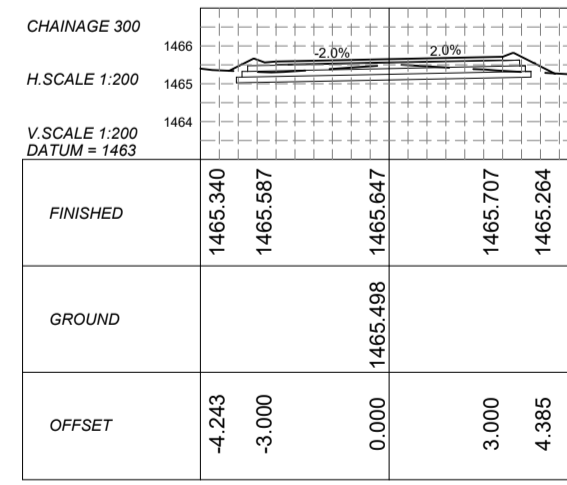
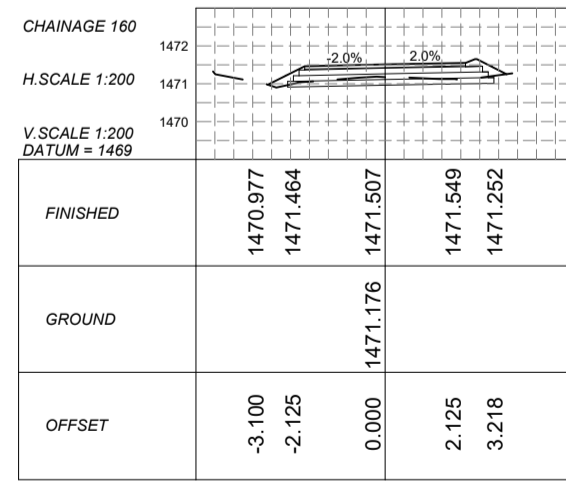
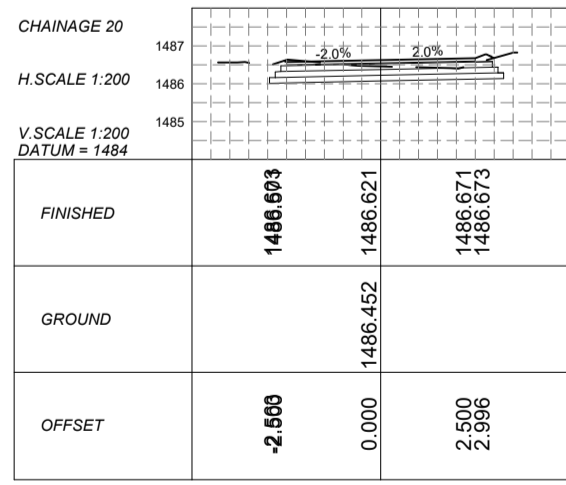
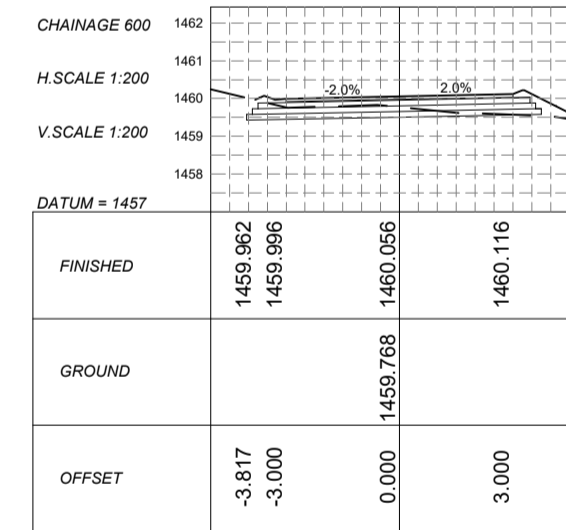
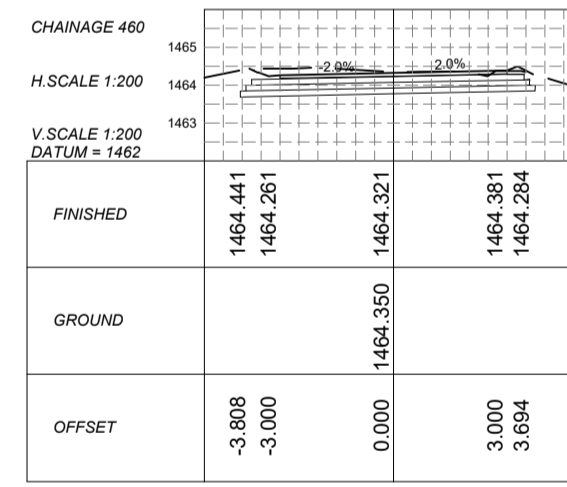
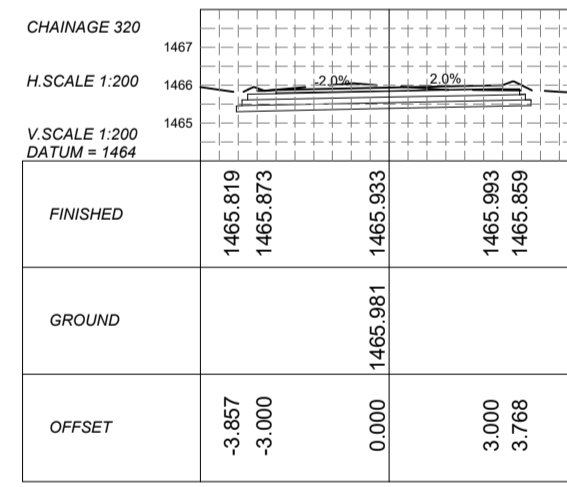
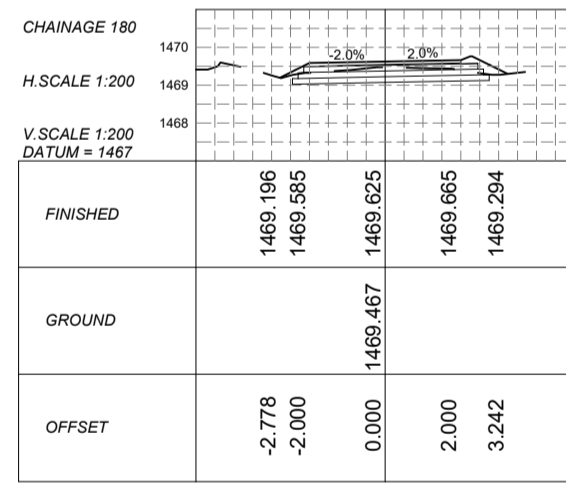
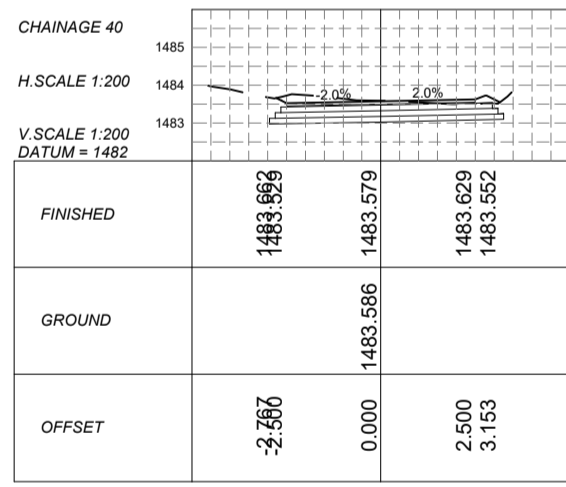
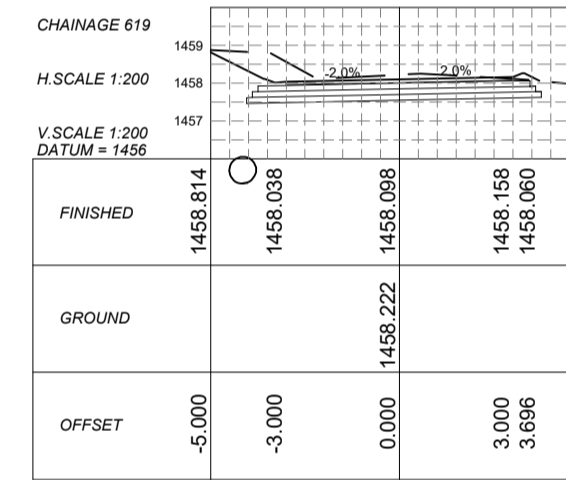
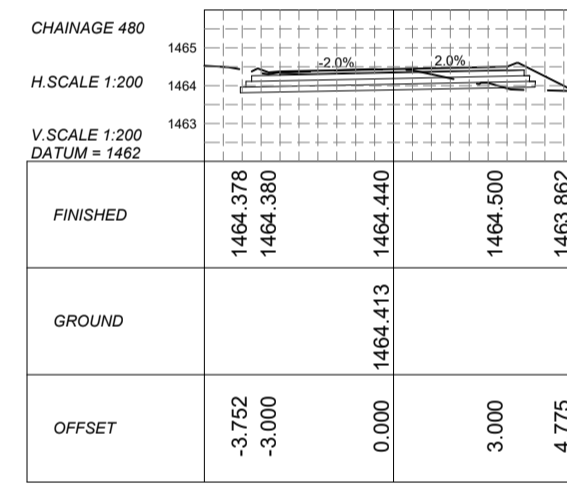
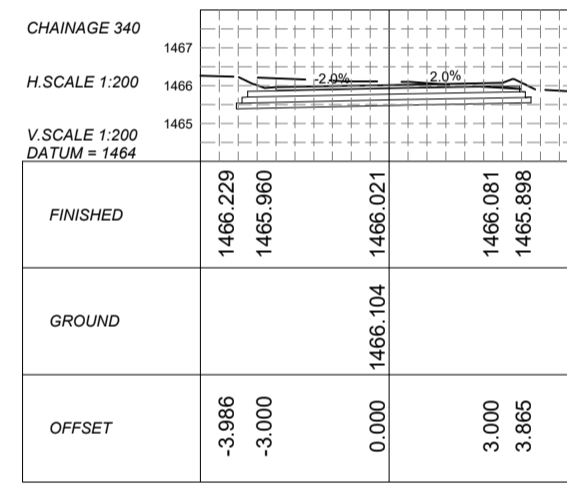
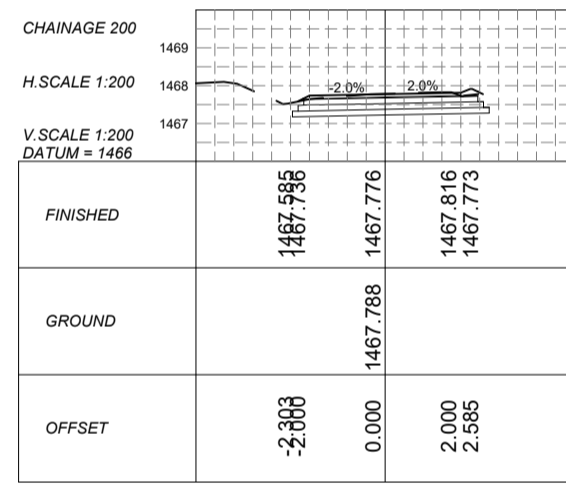
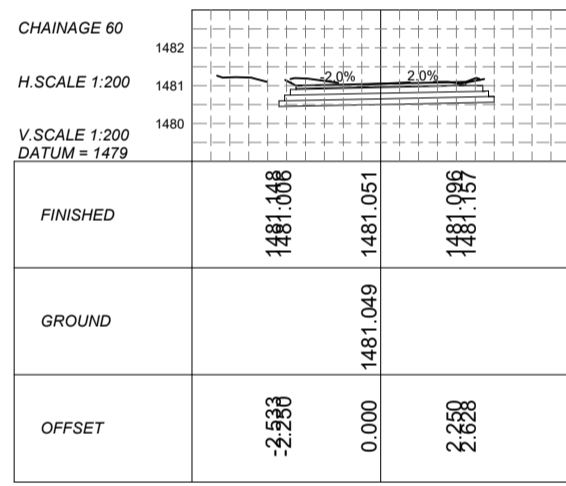
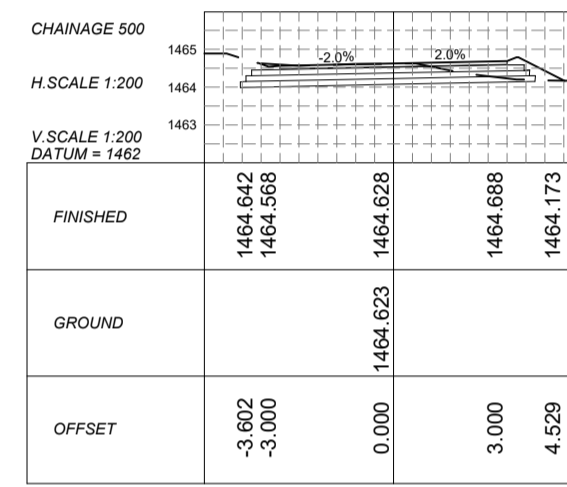
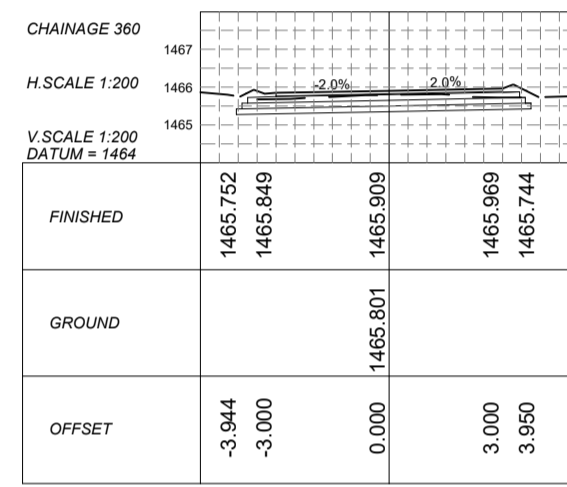
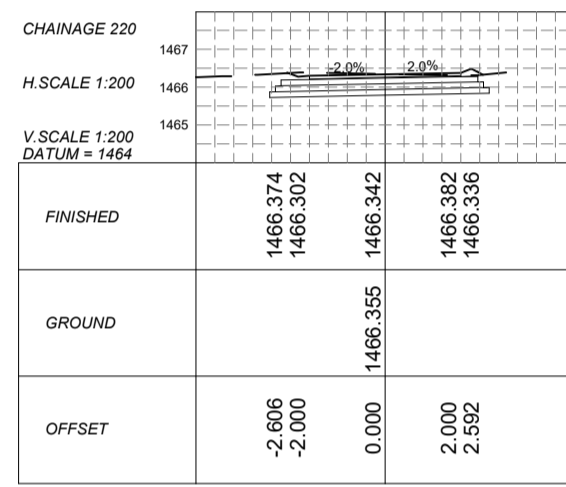
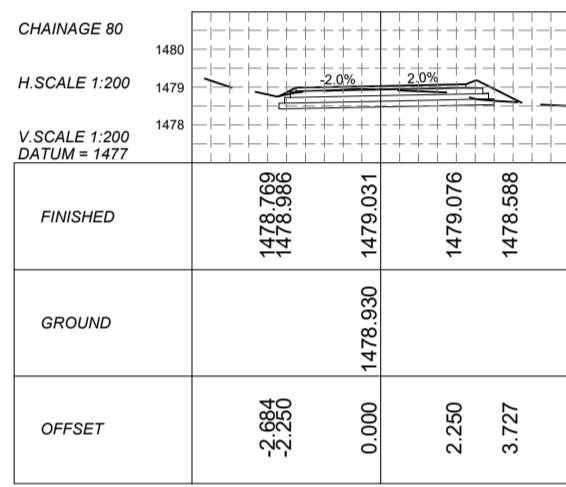
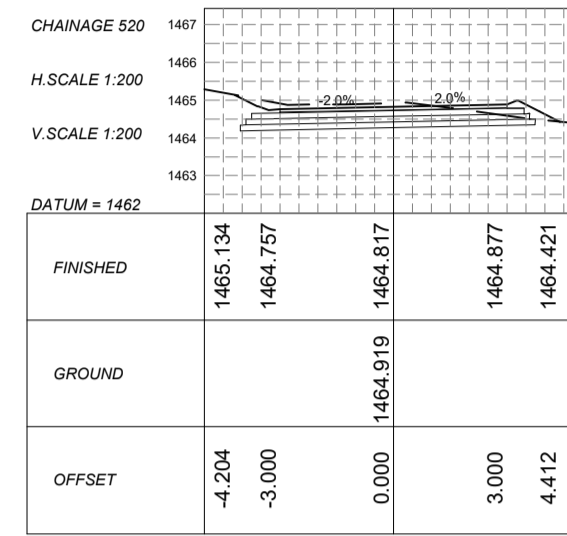
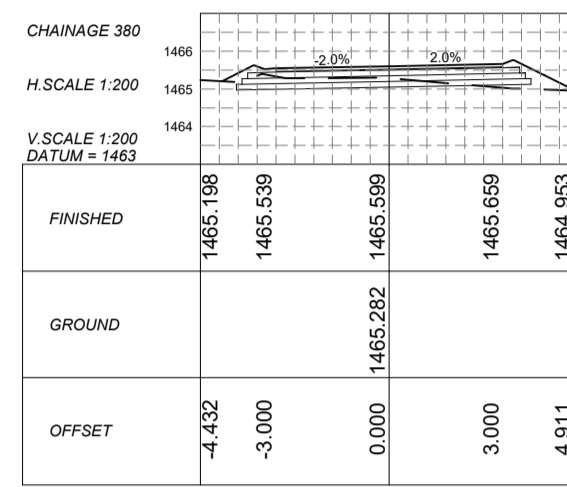
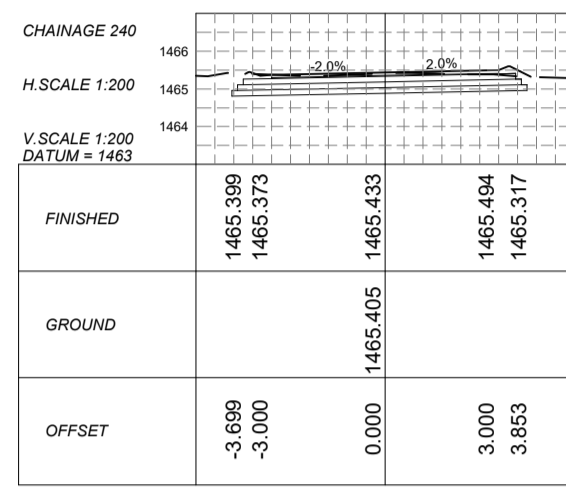
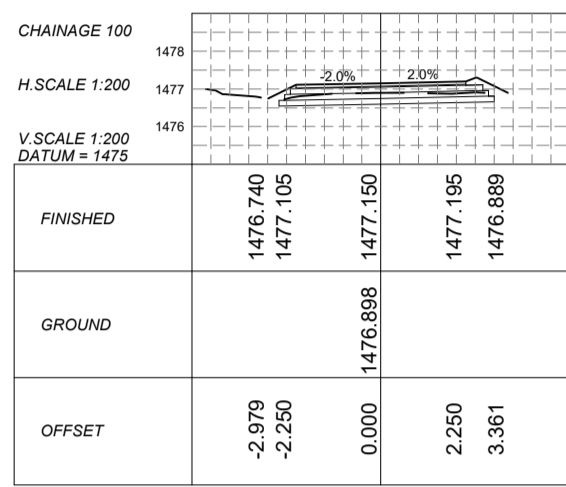
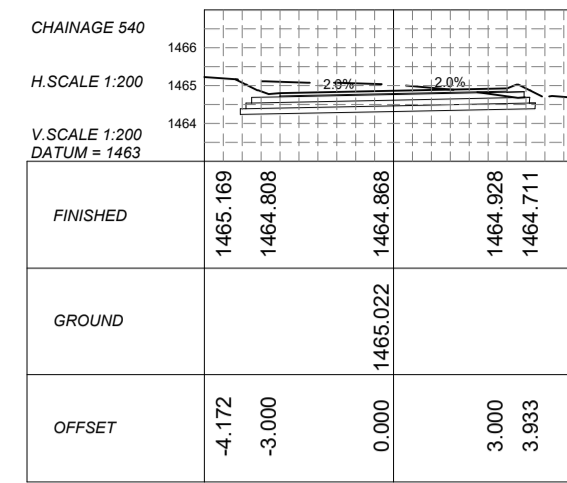
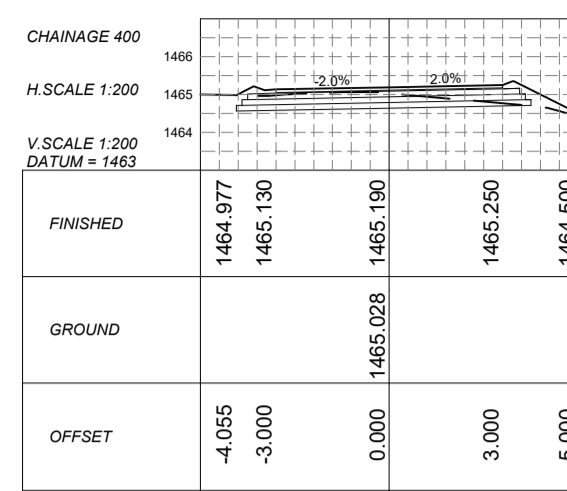
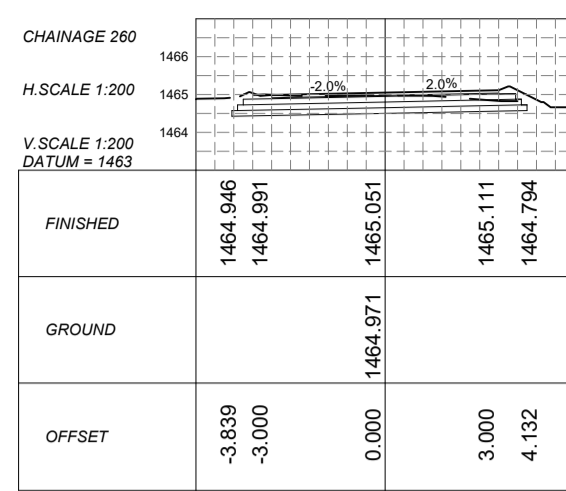
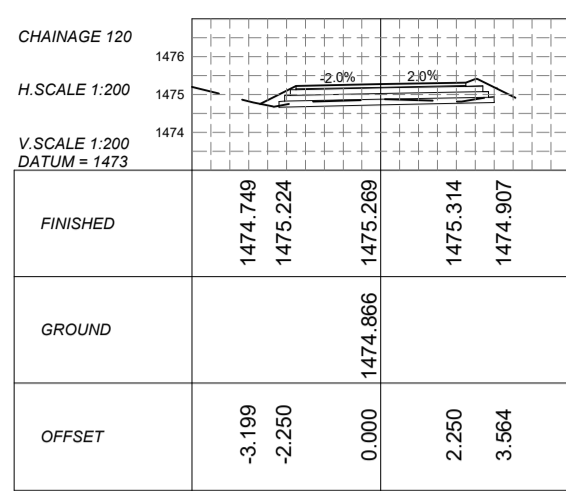
Office:
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PROGRAM
PROJECT
PAVING OF POLAR PARK
ACCESS ROAD-PHASE 1
DRAWING TITLE
ROAD 1 CROSS SECTIONS
SUB-TITLE

LAYOUT	DRAWING No.: SLM-PPAR-26-01-CS-01
SCALE: AS SHOWN	PROJECT No.: 26-01
	SHEET SIZE: A1



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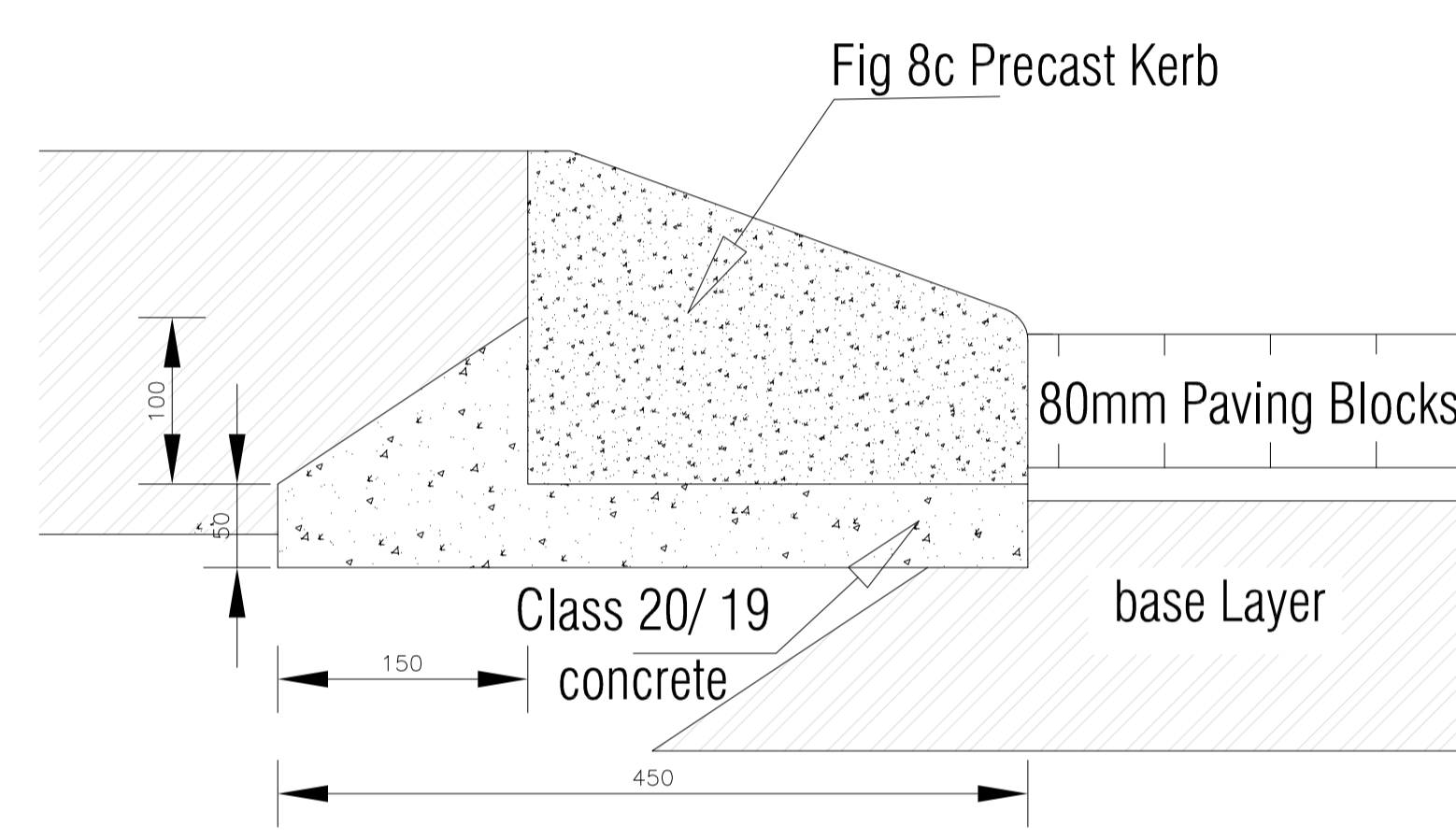
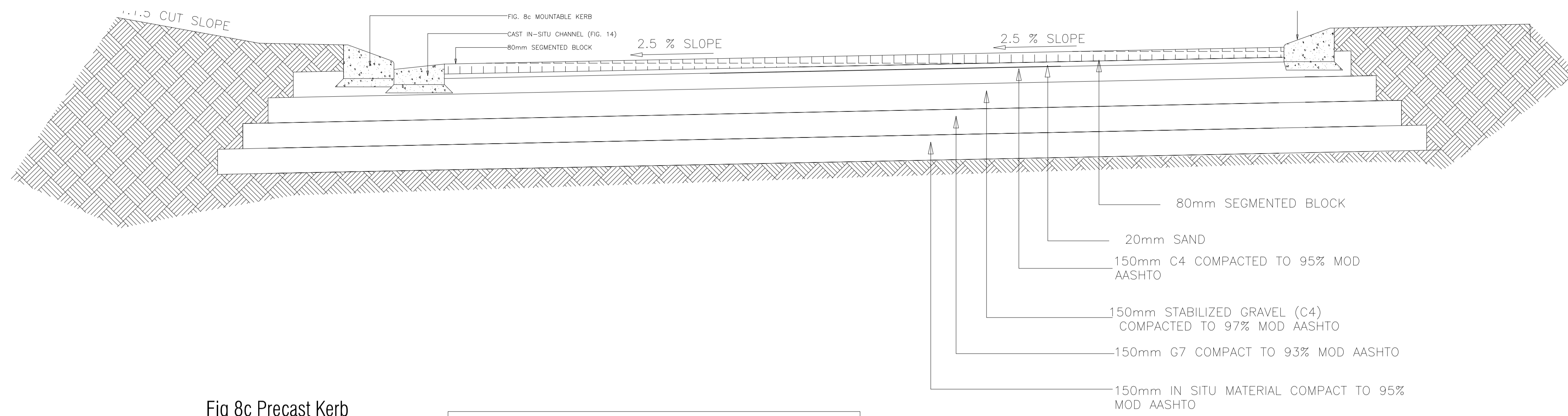
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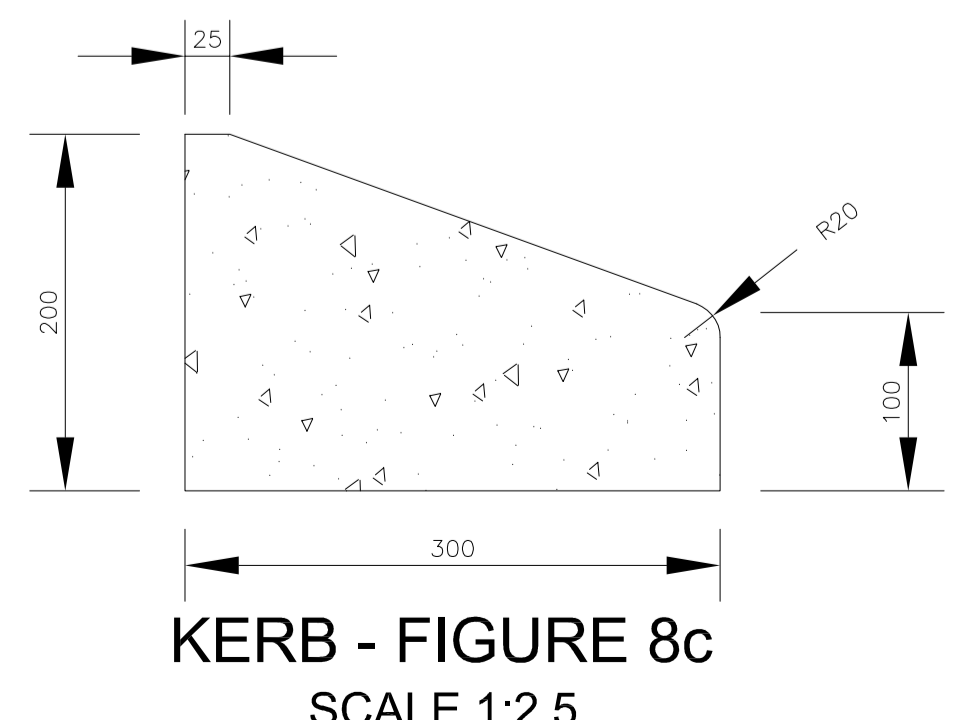
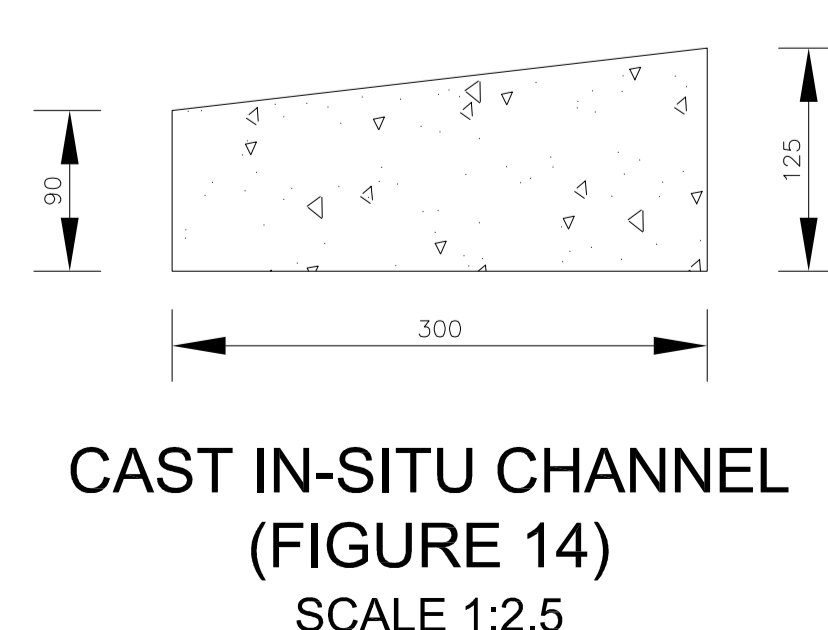
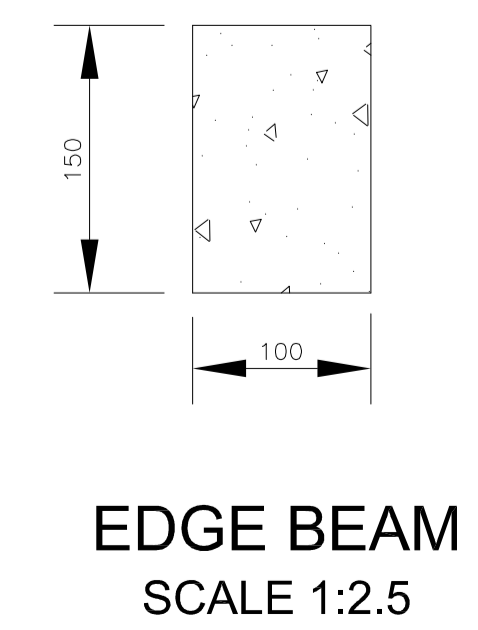
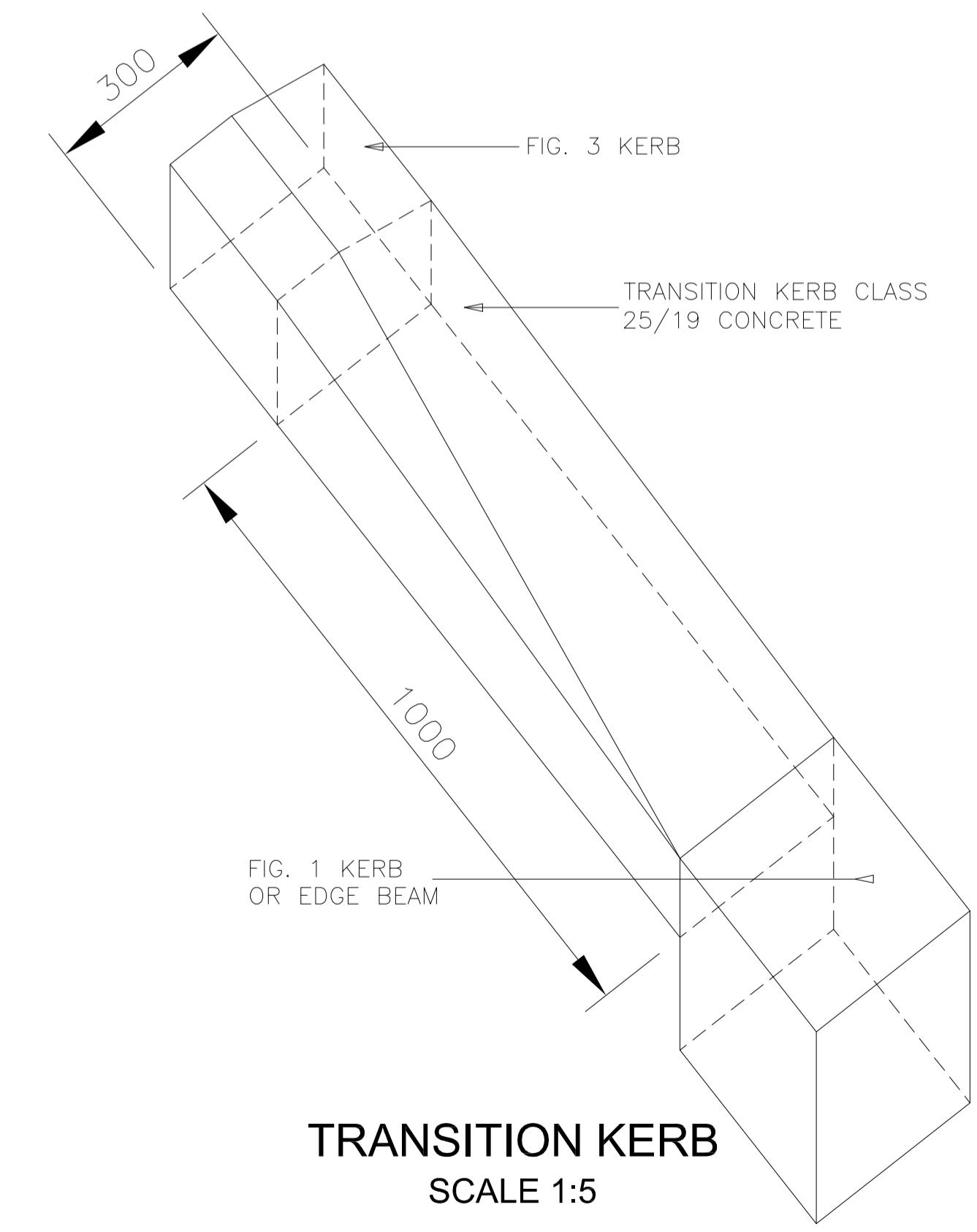
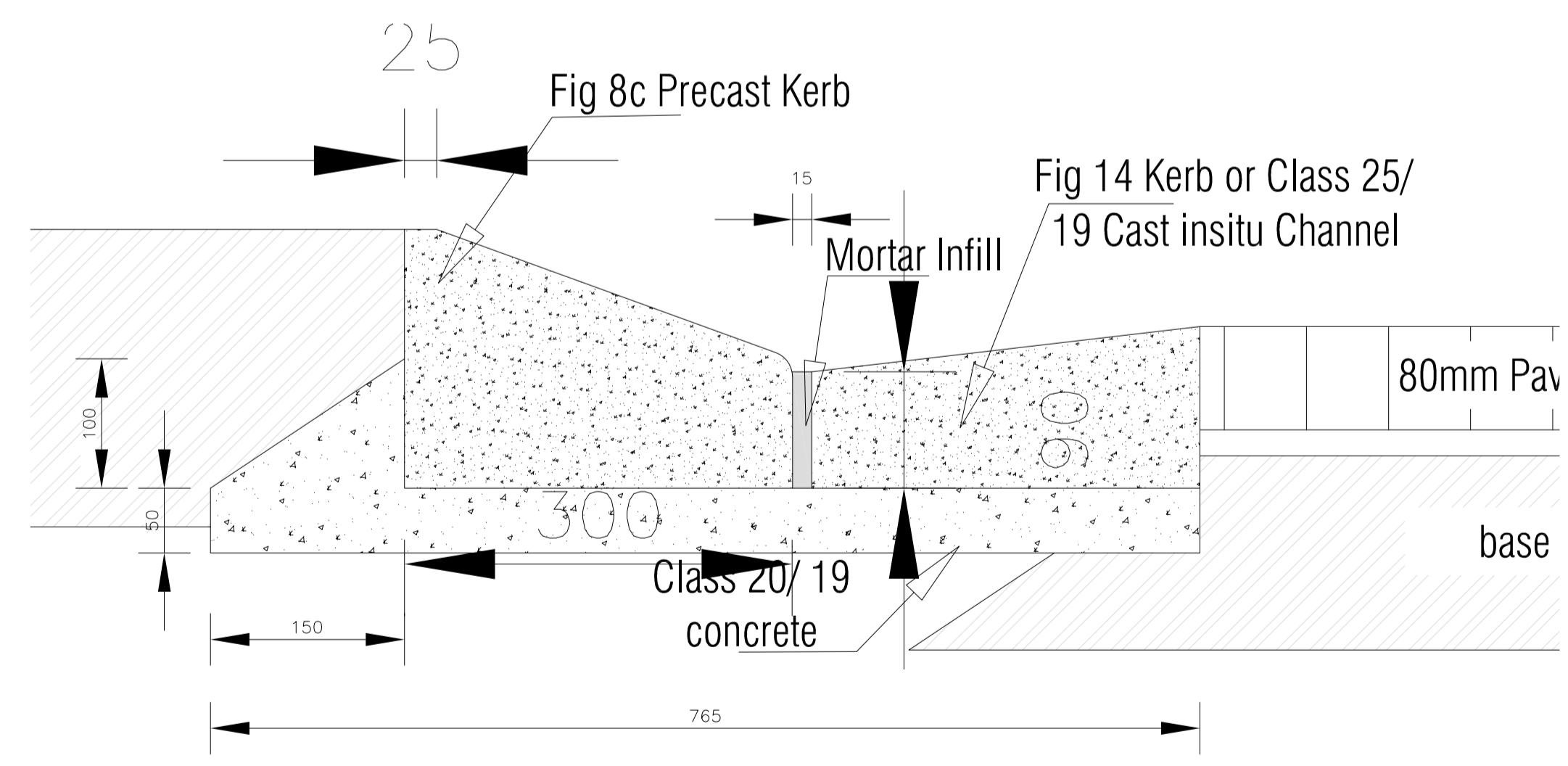


PROGRAM
PROJECT
PAVING OF POLAR PARK
ACCESS ROAD-PHASE 1
DRAWING TITLE
ROAD 2 CROSS SECTIONS
SUB-TITLE

LAYOUT	DRAWING No.: SLM-PPAR-26-01-CS-02
SCALE: AS SHOWN	SHEET SIZE: A1
PROJECT No.: 26-01	



- NOTES :
1. IN-SITU MATERIAL SURROUNDING THE CHANNEL AND KERB MUST BE APPROVED BY THE ENGINEER AS ADEQUATE FOUNDATION MATERIAL.
 2. CONCRETE BACKING TO PRECAST KERBS : CLASS 20/19
 3. CAST IN SITU KERBS AND CHANNELS (CLASS 25/19)
 - (a) CONSTRUCTION JOINTS AT 2,0m INTERVALS.
 - (b) 10mm EXPANSION JOINTS AT 10m CENTRES FILLED WITH SOFT BOARD OR APPROVED EQUIVALENT AND 20mm x 10mm SILICON SEALANT OR APPROVED EQUIVALENT
 - (c) CAST ALTERNATIVE SECTIONS.
 4. PRECAST OR CAST IN SITU CHANNEL TO BE USED WITH ROAD CROSSFALL CONFIGURATION ONLY ON INSTRUCTION OF THE ENGINEER.
 5. PRECAST KERBS AND CHANNELS-10mm EXPANSION JOINTS AT 10m CENTRES FILLED WITH SOFT BOARD OR APPROVED EQUIVALENT AND 20mm x 10mm SILICON SEALANT OR APPROVED EQUIVALENT



6. LARGE SCALE DETAILS WERE USED WHERE AVAILABLE
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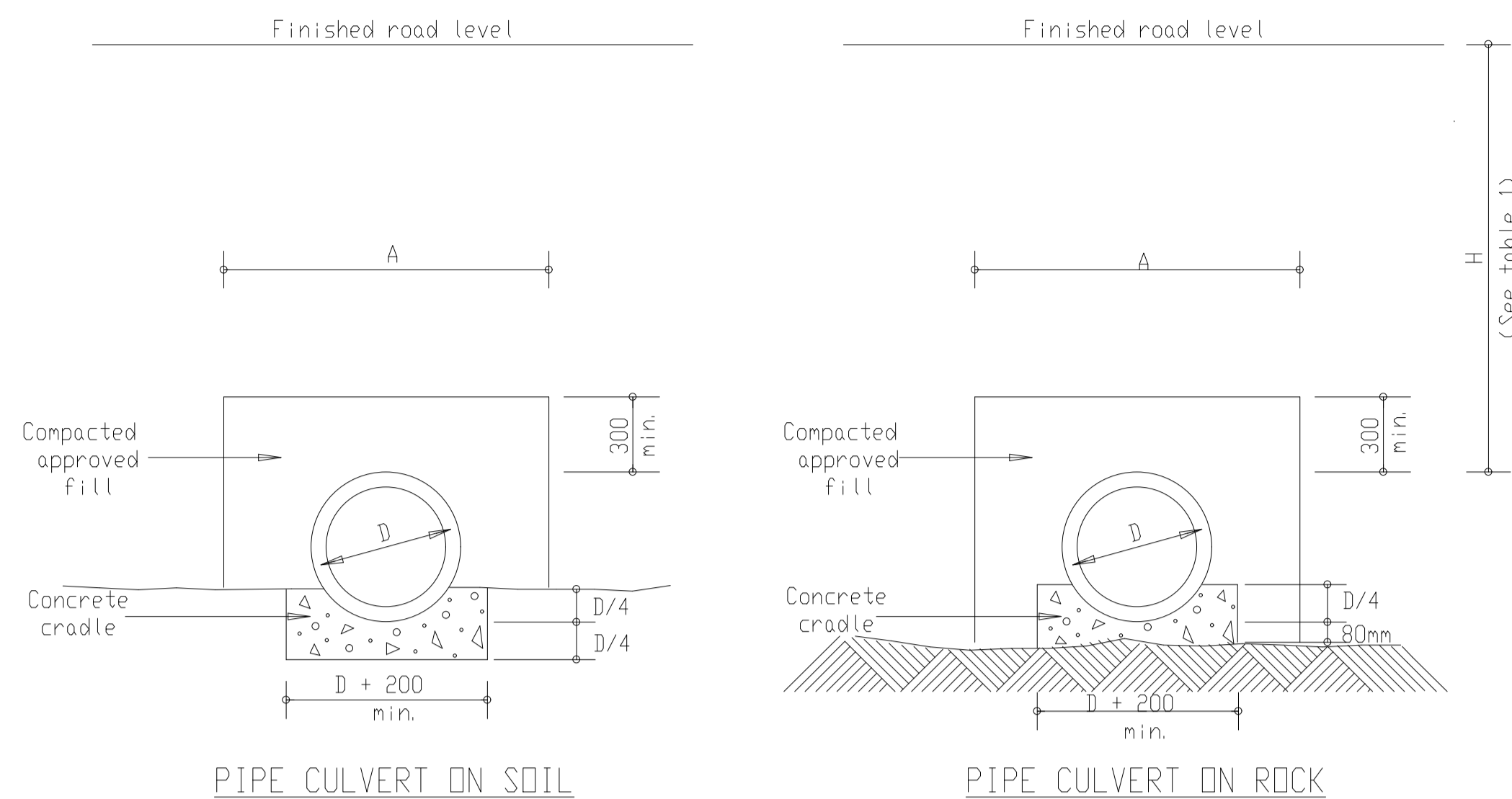
PROGRAM

PROJECT
 PAVING OF POLAR PARK
 ACCESS ROAD-PHASE 1

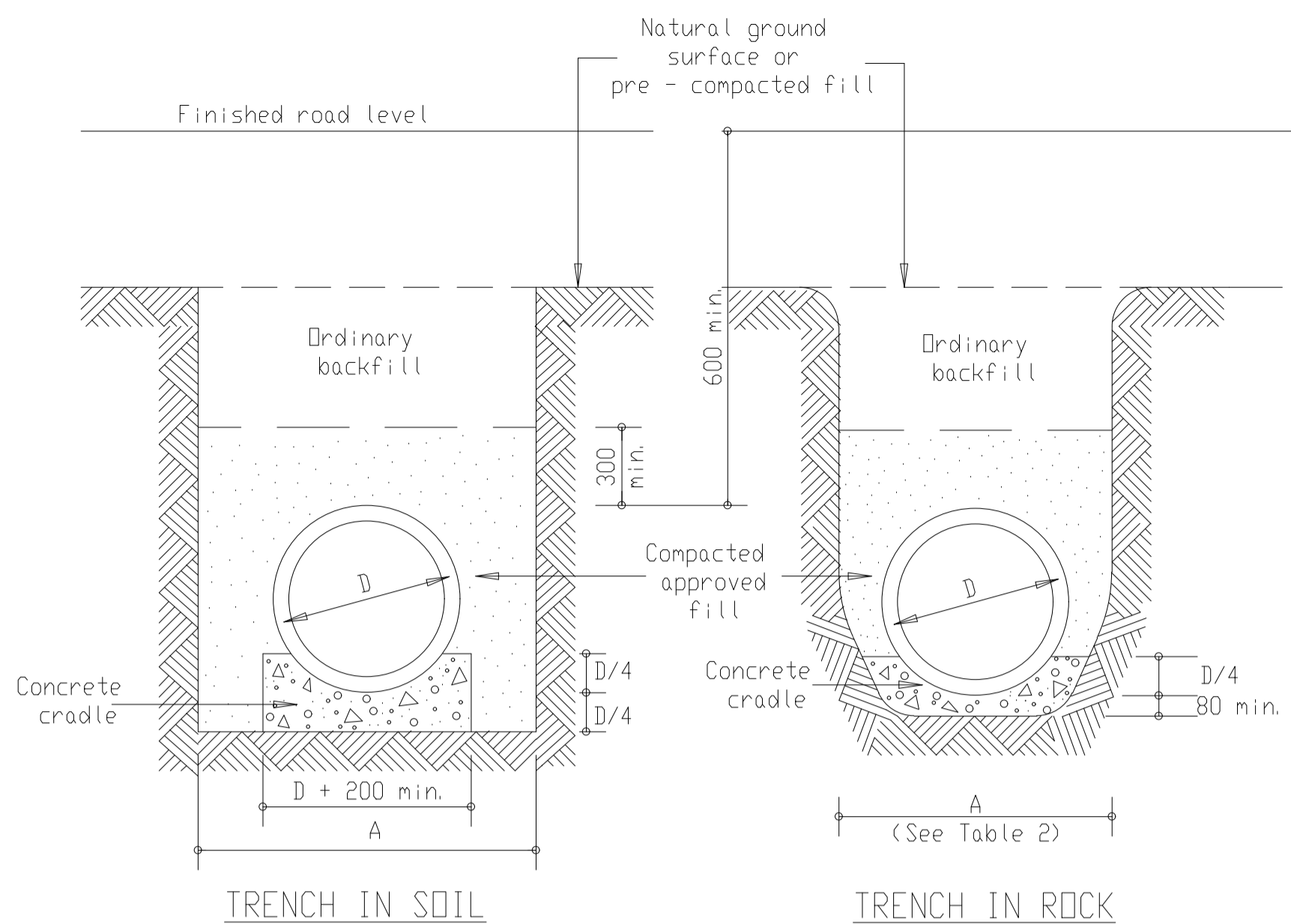
DRAWING TITLE
 ROAD TYPICAL CROSS SECTIONS,
 KERBING AND LAYERWORKS

SUB-TITLE

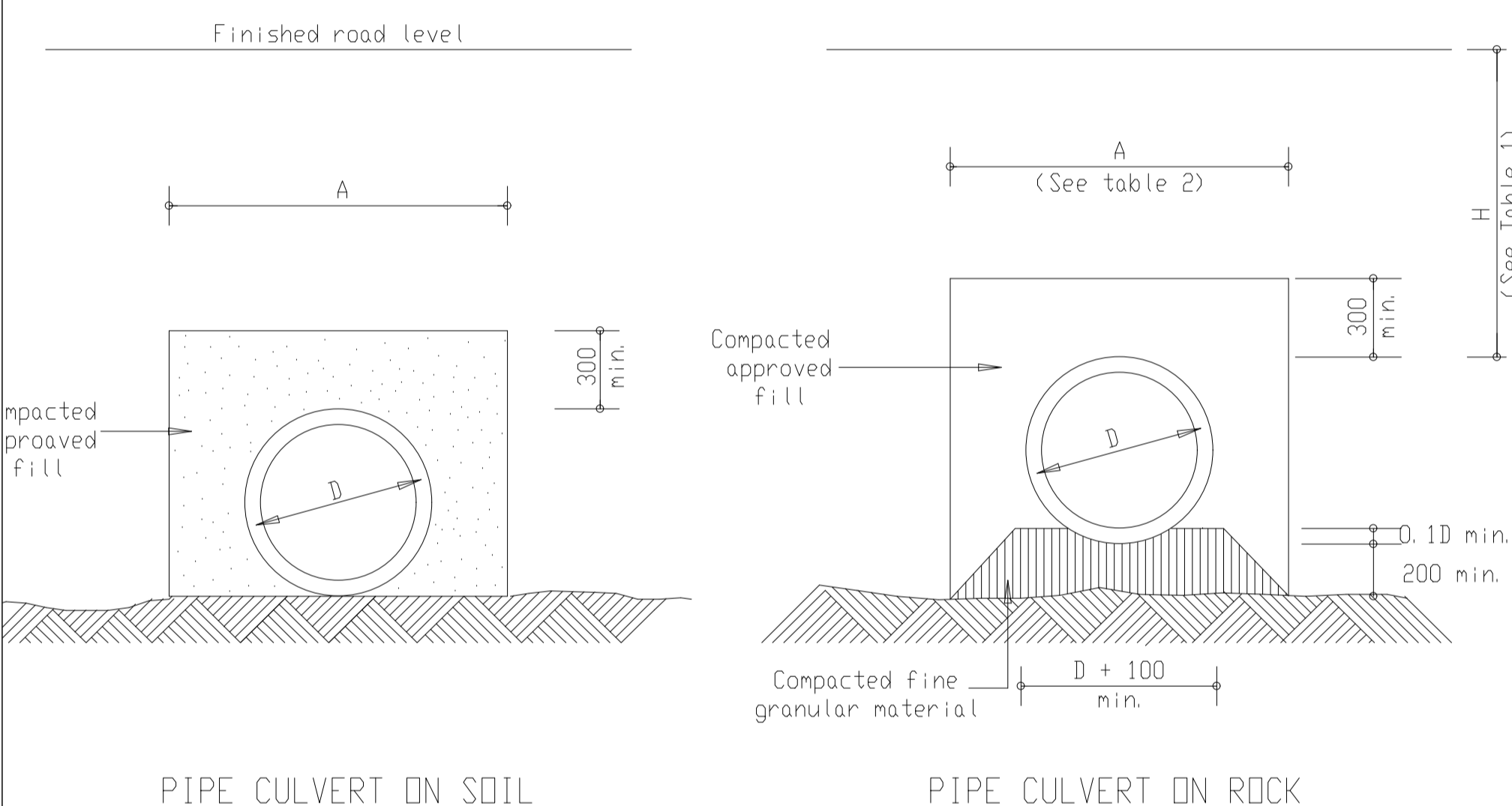
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SCALE: AS SHOWN	SHEET SIZE: A1
PROJECT No.: 26-01	



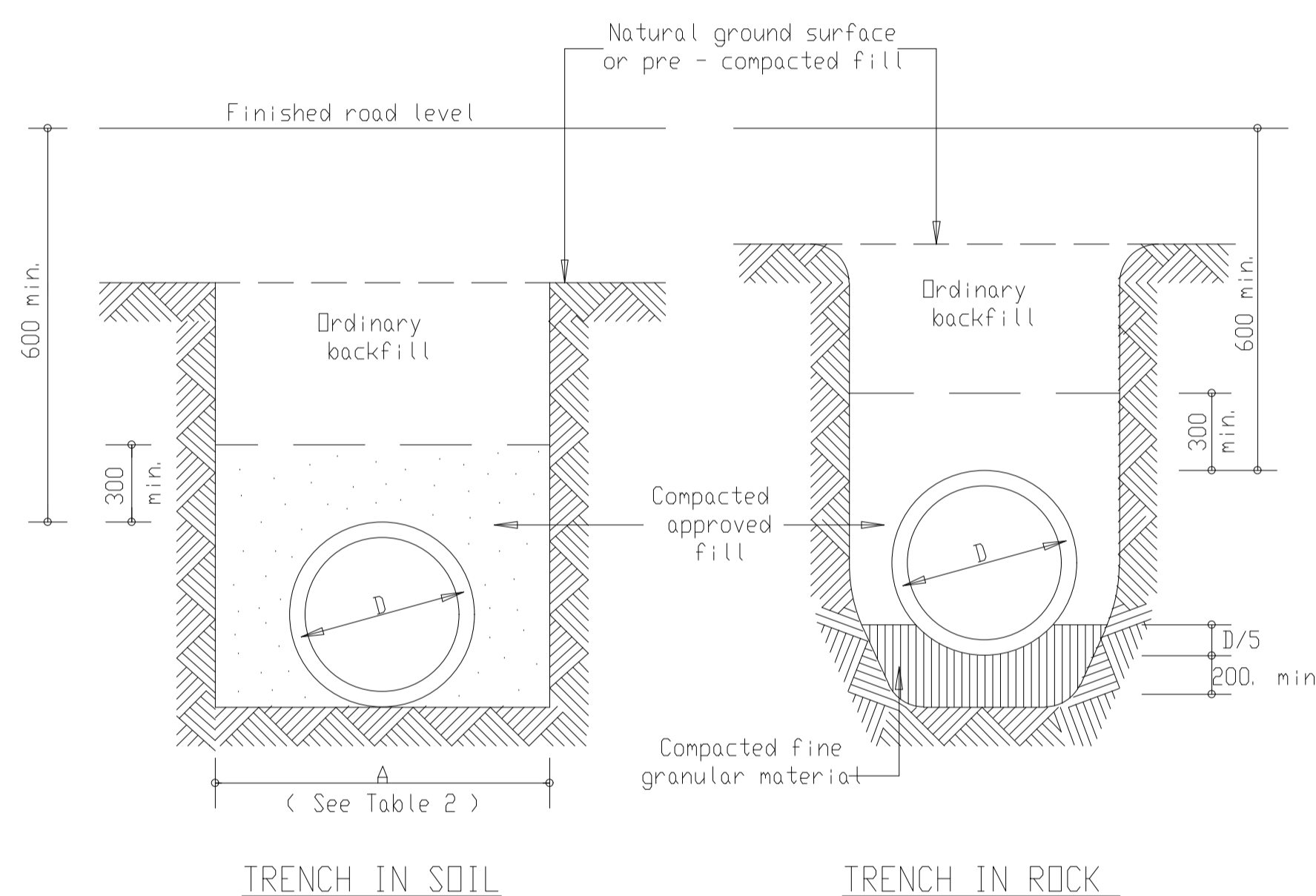
CLASS A BEDDING
(EMBANKMENT CONDITION)



CLASS A BEDDING
(TRENCH CONDITION)



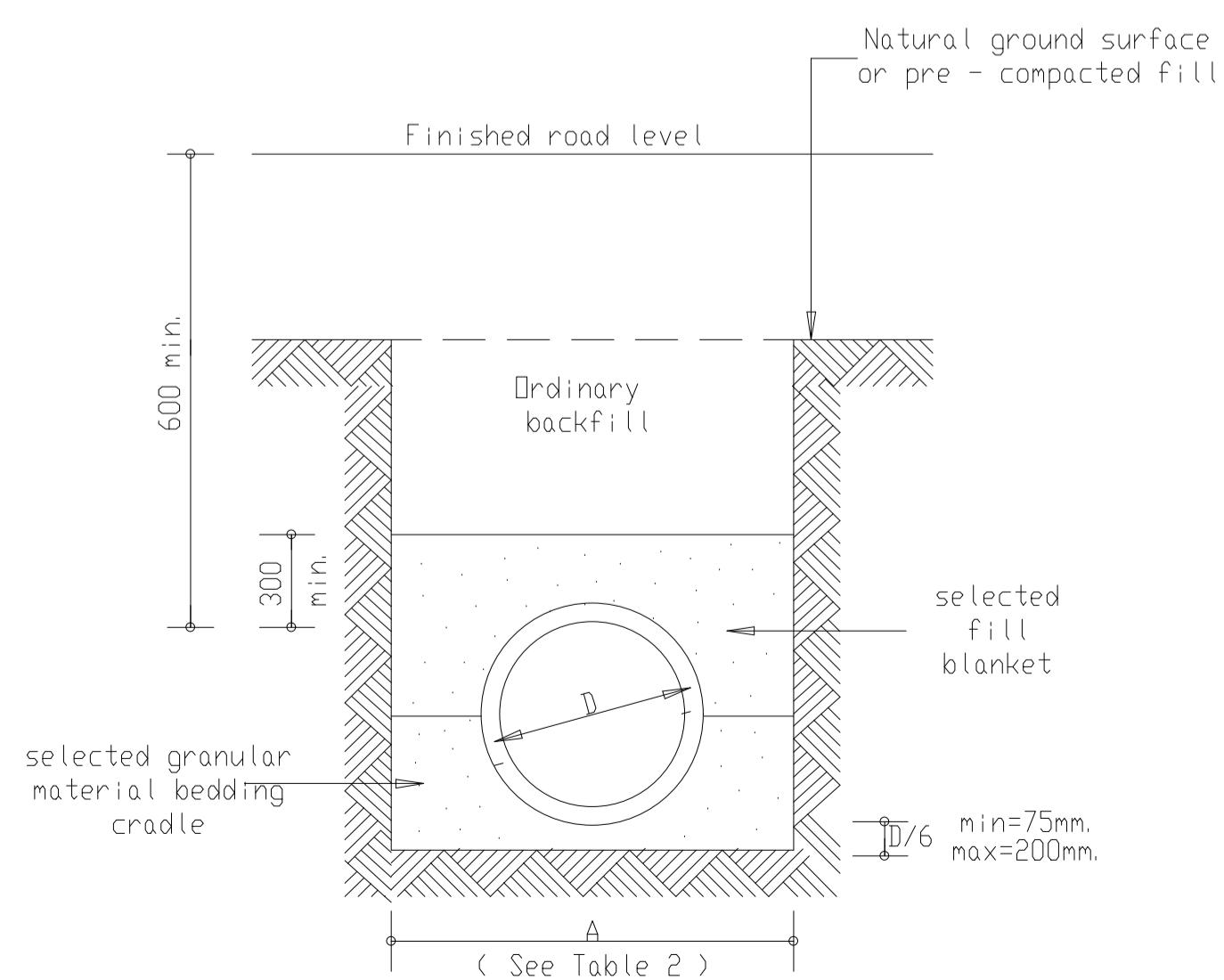
CLASS C BEDDING
(EMBANKMENT CONDITION)



CLASS C BEDDING
(TRENCH CONDITION)

'D' Load	Permissible Maximum Height (H) of Fill in metres	
	Class A Bedding	Class C Bedding
25 D	3.0	1.5
50 D	6.0	3.0
75 D	9.0	4.5
100 D	12.0	6.0
125 D	15.0	7.5
150 D	18.0	9.0
200 D	24.0	12.0

TABLE 1



CLASS B

Trench width		
Nominal Pipe Diameter (D) (mm)	Recommended Dimension (A) (mm)	Maximum Trench Width (mm)
450	1100	1100
600	1300	1300
750	1500	1500
900	1600	1700
1050	1800	2200
1200	2000	2400

TABLE 2

NOTES:

- When possible pipes shall be laid by first constructing the required compacted fill to allow a pipe trench to be excavated into it, thereby satisfying requirements for negative projecting pipeline. The recommended trench widths are listed in Table 2. The maximum trench widths apply to deep trenches where shoring is required.
- All pipes shall comply with SABS 667-1986, "Standard specifications for concrete non-pressure pipes", and shall be installed in accordance with SABS 0102-1987, "Code of practice for design and installation of precast concrete pipes".
- Joints shall either be pigot and socket with rubber ring, ogee with rubber collar or modified ogee with rubber ring seal.
- In selecting the type and class of pipe it is generally preferable to use the stronger class of pipe with a class C bedding rather than the lower strength pipe with a class A bedding.
- Actual internal diameter of heavy duty pipes are to be checked against waterway requirements.
- For fill heights exceeding 10m or pipeline length exceeding 40m a minimum nominal pipe diameter of 900mm is recommended.
- Construction joints in concrete cradle to coincide with pipe joints. All insitu concrete shall be 15MPa.
- The following minimum nominal pipe diameters shall apply : 450mm for minor access roads and bellmouths.
- The minimum cover over any pipe culvert shall be 600mm. In exceptional cases pipes may be encased in concrete and the cover reduced to 200mm.
- All pipe lifting holes must be plugged to the satisfaction of the Engineer.
- Pipes to be laid to a minimum grade of 2%.

NOTES

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- CONTRACTOR KEPT A FULL SET OF DRAWINGS ON SITE.
- CONTRACTOR WAS RESPONSIBLE FOR CORRECT SETTING OUT OF BUILDINGS ON SITE WITH PARTICULAR INTEREST TO BOUNDARIES AND BUILDING LINES.
- CONTRACTOR VERIFIED ALL LEVELS AND DIMENSIONS ON SITE.
- SCALING OF DRAWINGS WAS NOT PERMITTED. FIGURED DIMENSIONS ONLY WERE USED.
- LARGE SCALE DETAILS WERE USED WHERE AVAILABLE.
- CONTRACTOR HAD IDENTIFIED AND EXPOSED ALL UNDER GROUND SERVICES ON SITE WHERE RELEVANT. CONTRACT SPECIFICATIONS OR SABS 1200.
- CONSTRUCTION WAS IN ACCORDANCE WITH ALL RELEVANT DRAWINGS.
- WHEN THE ENGINEER BE REQUIRED ON SITE, 48 HOURS NOTICE WAS GIVEN.

LEGEND

No.	DATE	REVISION	INIT.

CLIENT



FUNDER

RECOMMENDED	APPROVED
DESIGNED: F.D	CONTRACT No. SLM/SCM/65/2025/2026
DRAWN: F.D	CHECKED: T.T
ENGINEER: T.T	DATE: 15-05-2026

IMBUMBA CONSULTANTS
Engineering & Project Management
Consultants

Office:
MOUNT AYLIFF
P.O. BOX 83
MOUNT AYLIFF
4735
Phone: +27-72-310-4326
Fax: +27-86-660-6810



Email: smtoba@yahoo.com

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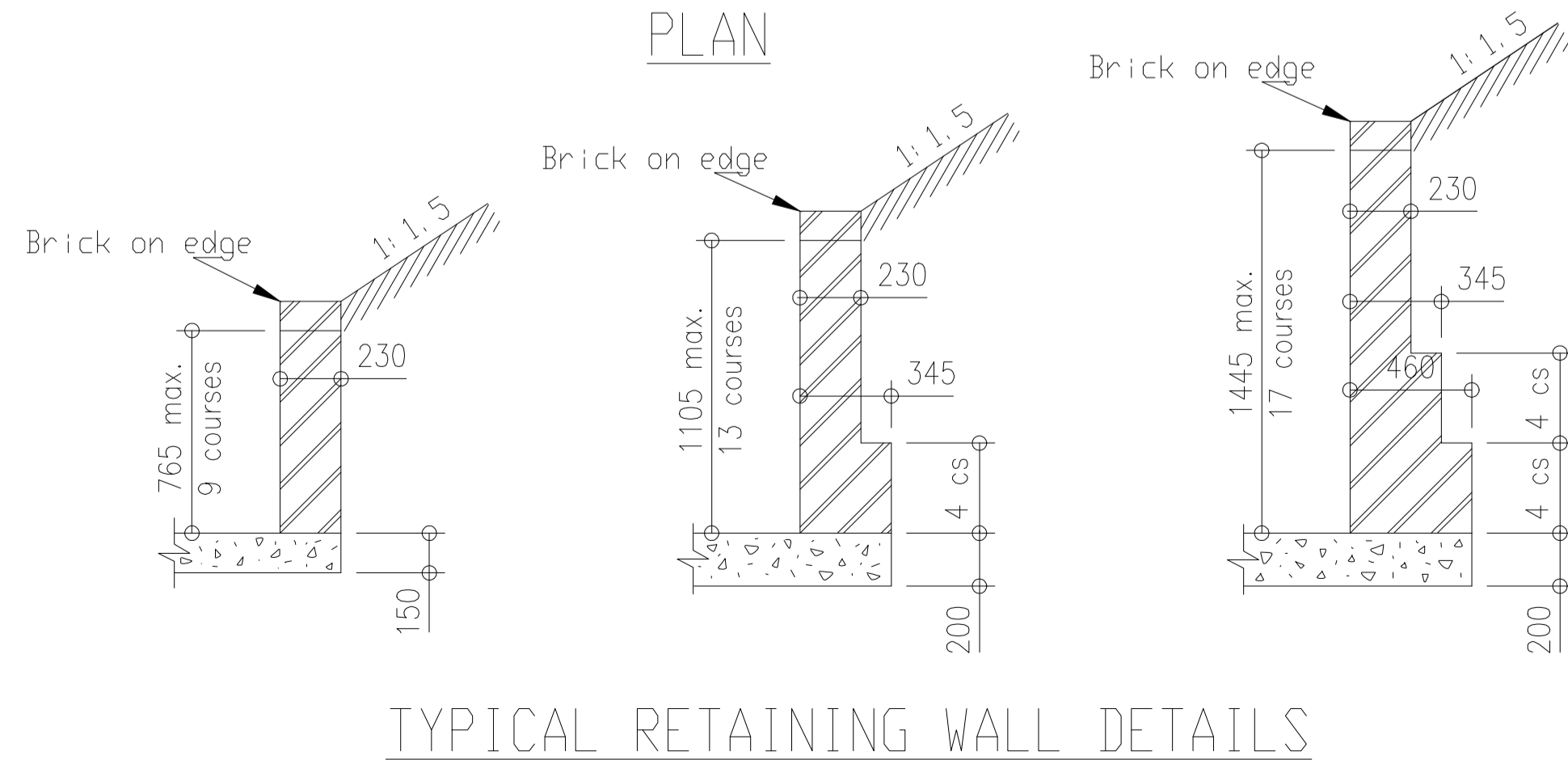
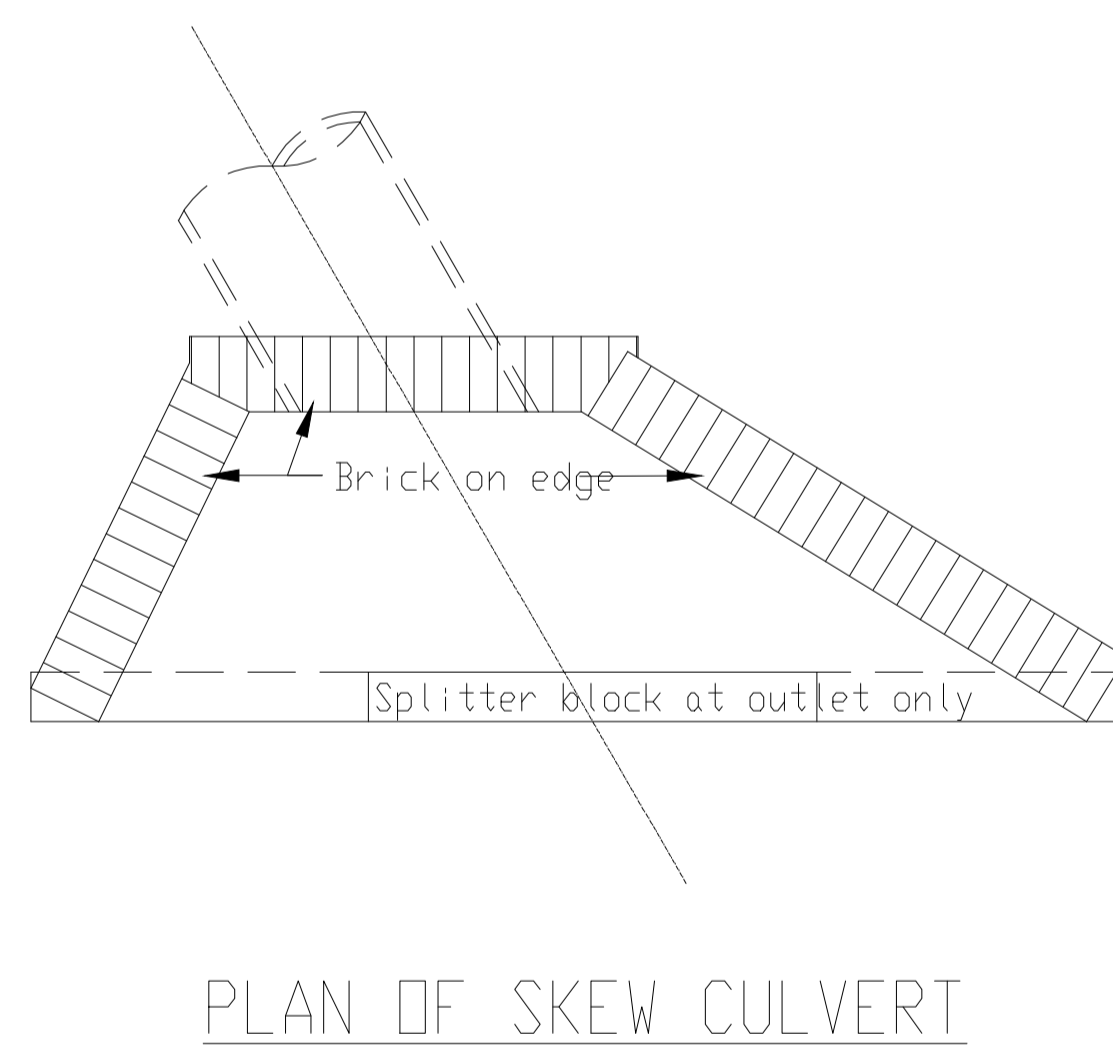
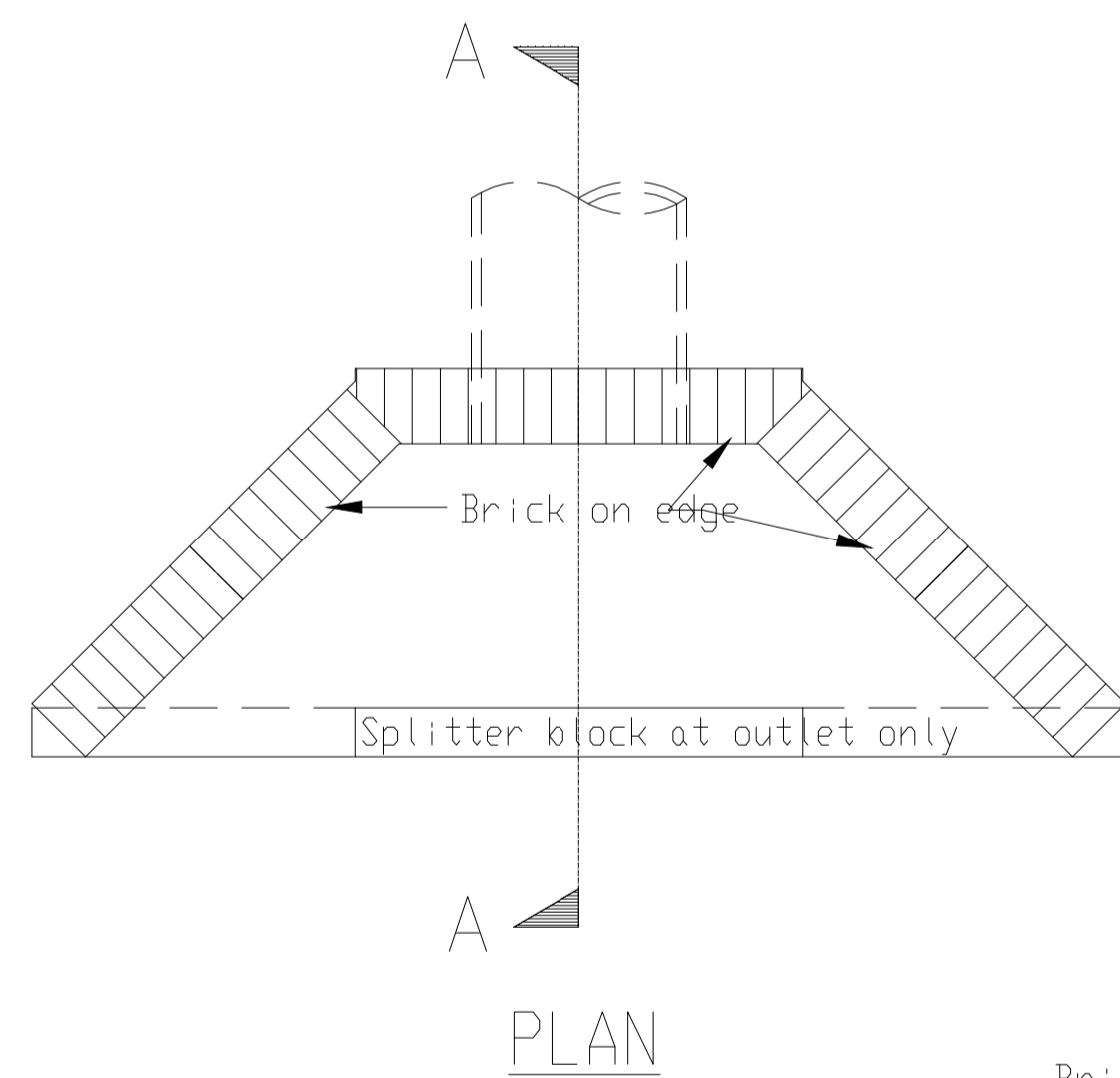
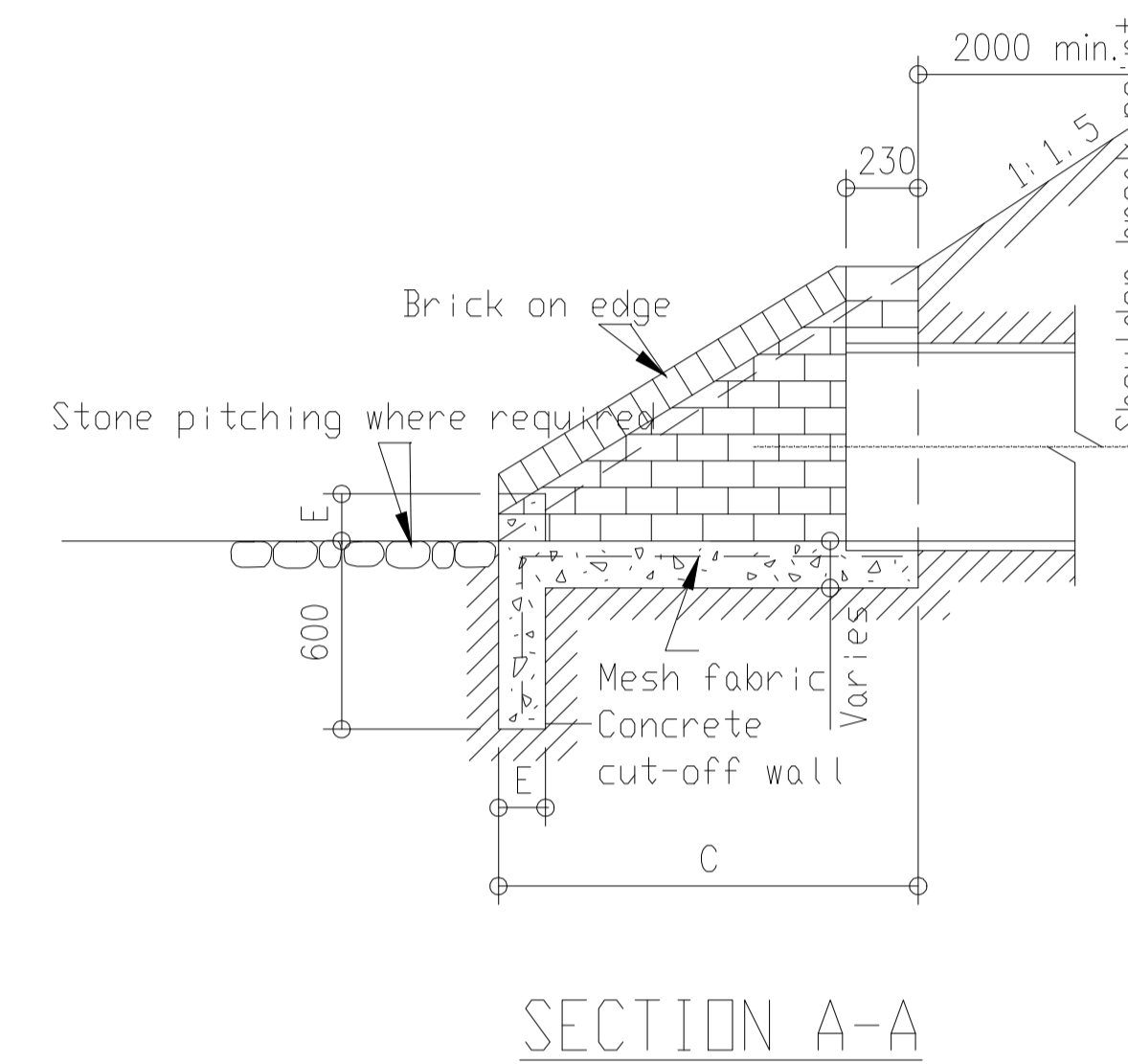
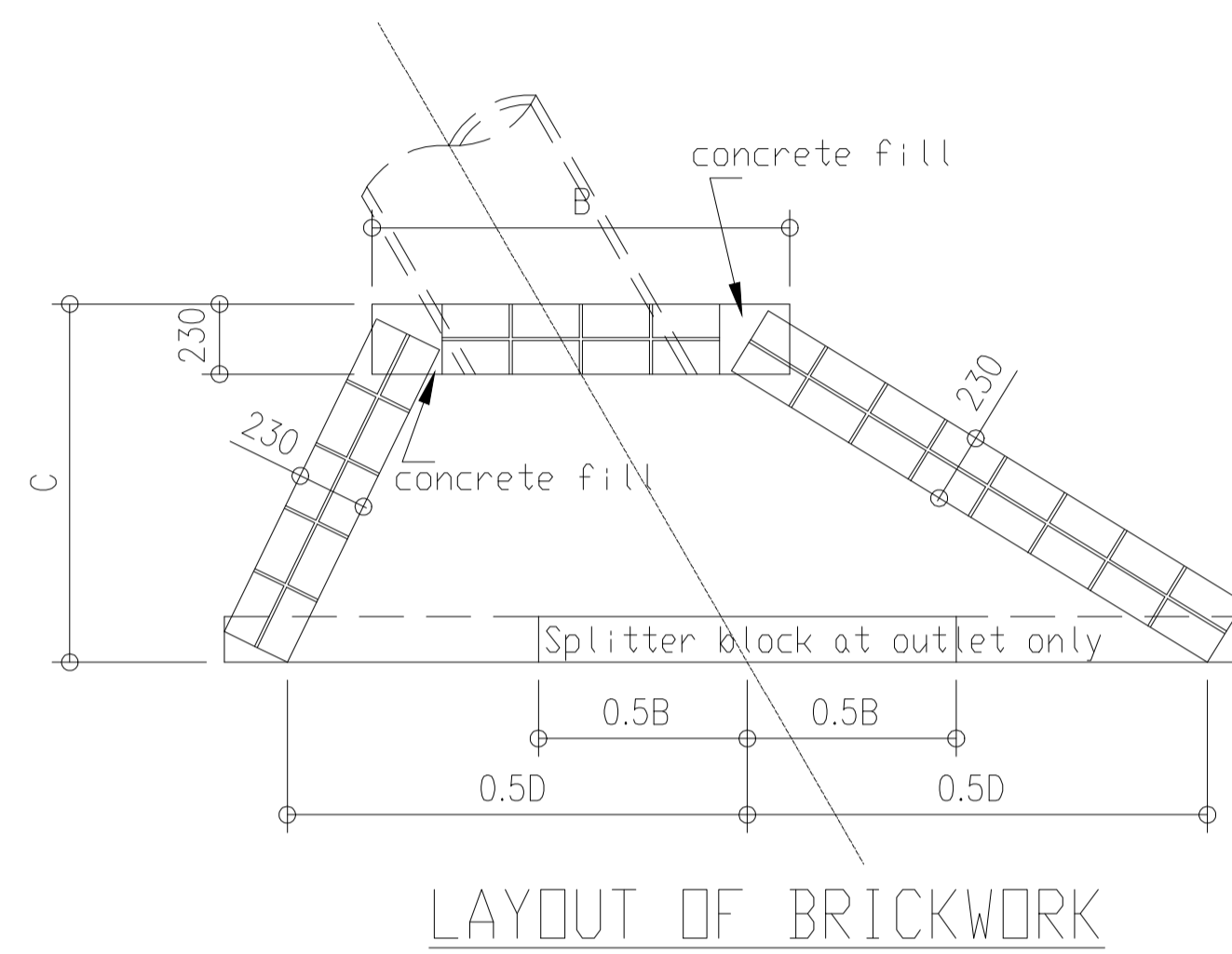
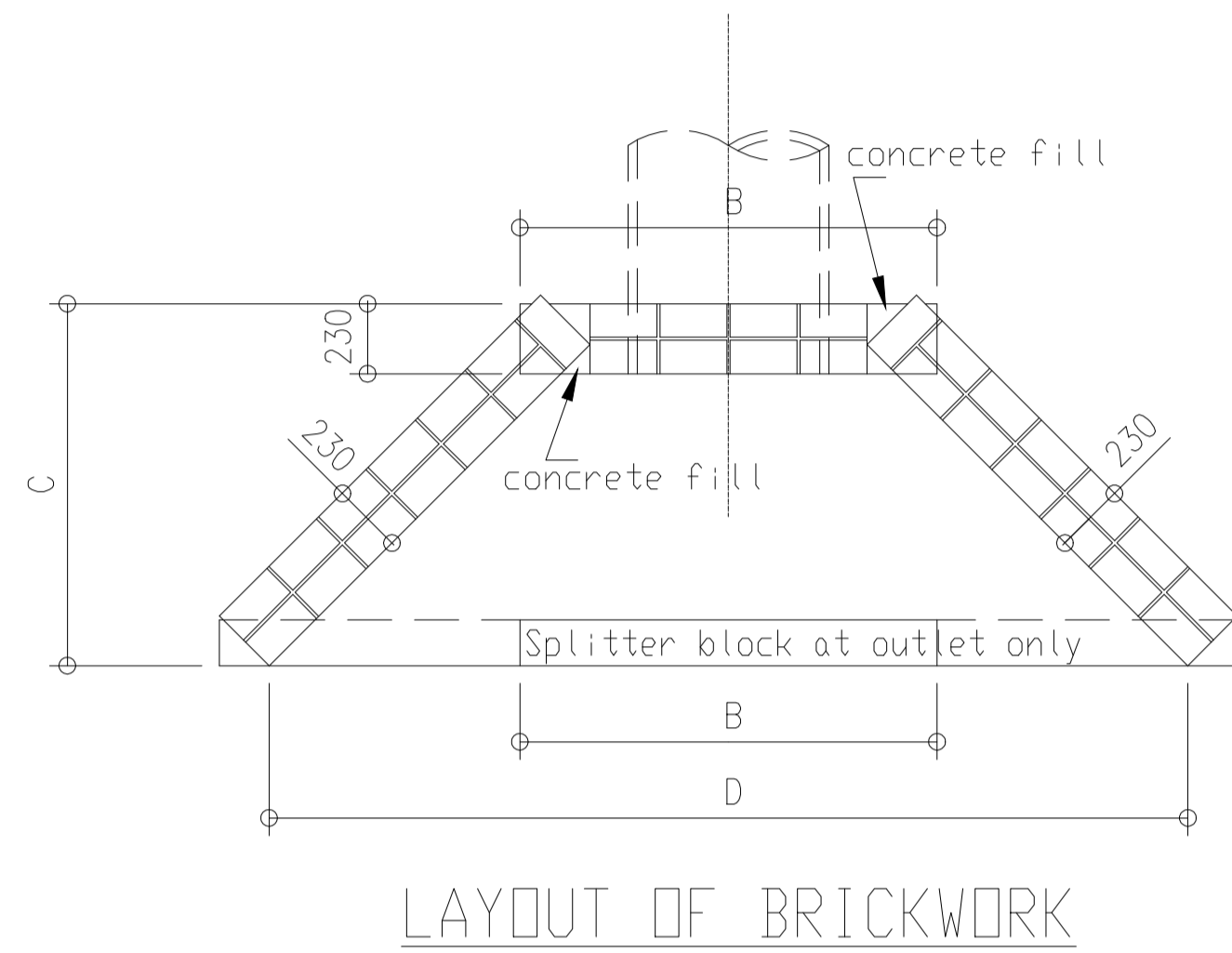
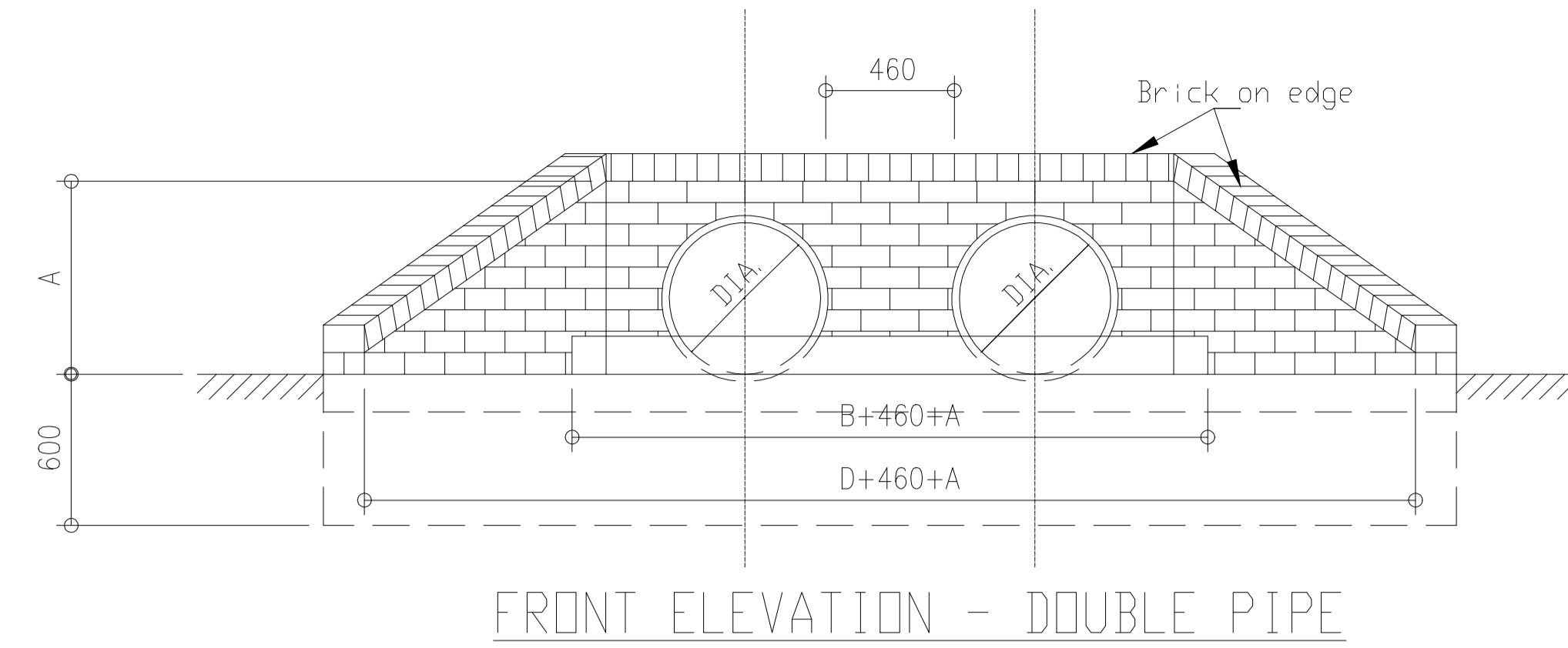
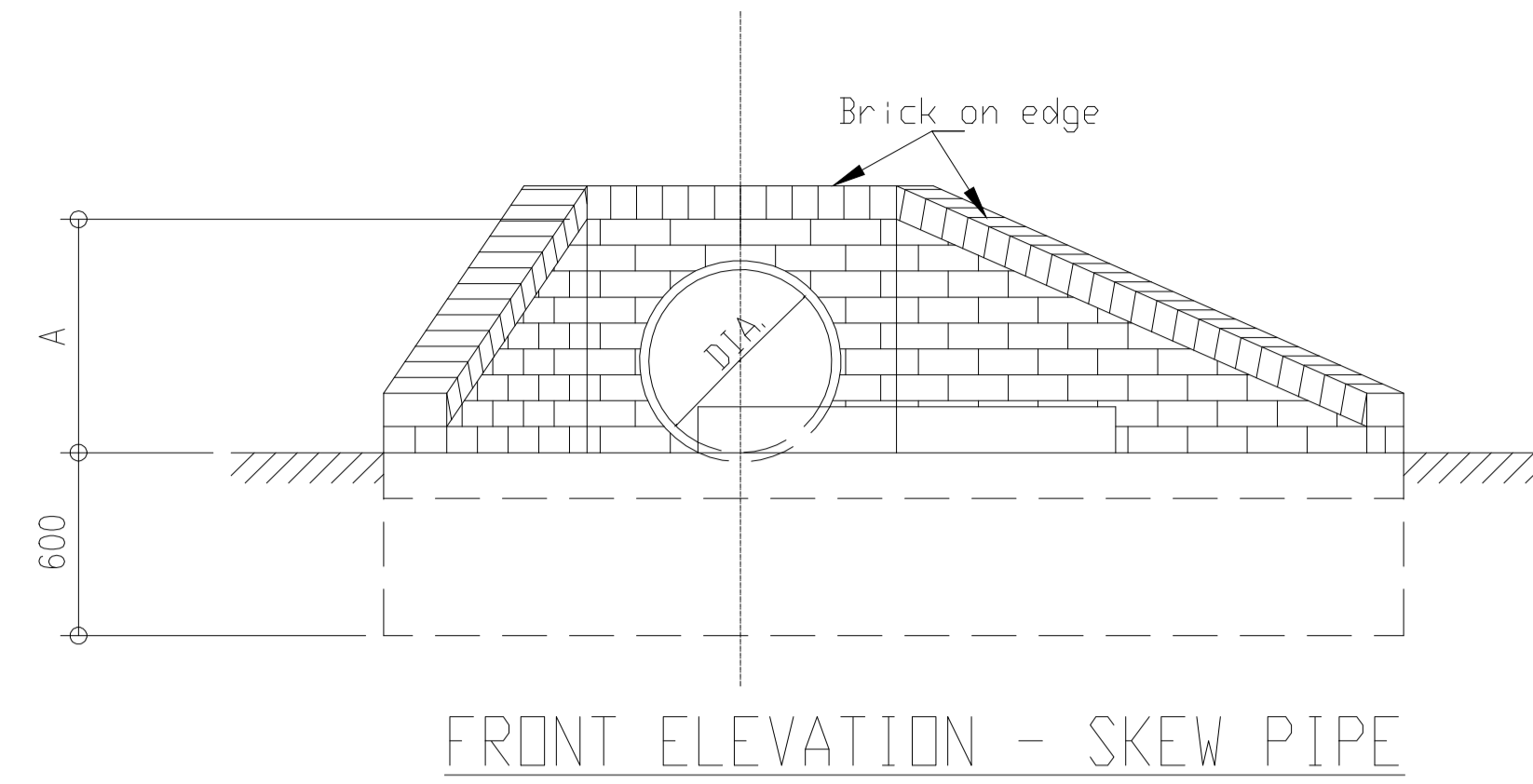
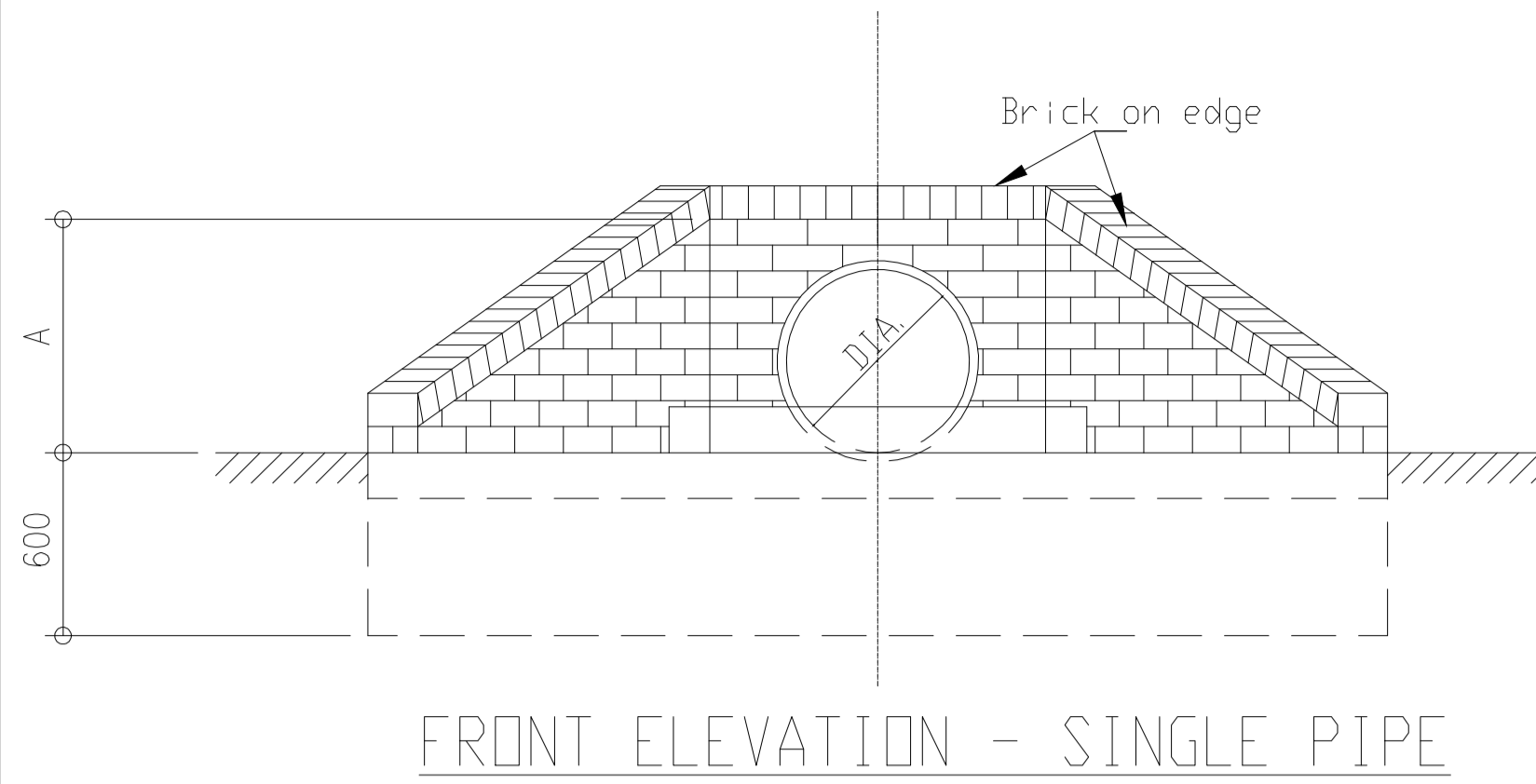
PROGRAM

PROJECT
PAVING OF POLAR PARK
ACCESS ROAD-PHASE 1

DRAWING TITLE
STORMWATER STANDARD DETAIL
PIPE CULVERT BEDDING

SUB-TITLE

LAYOUT	
SCALE: AS SHOWN	DRAWING No: SLM-PPAR-26-01-SD-02
PROJECT No.: 26-01	SHEET SIZE: A1



Nominal Ø	Dimensions (mm)				
	A	B	C	D	E
450	595	1 150	1 050	2 700	150
600	765	1 380	1 200	3 000	150
750	935	1 610	1 350	3 300	150
900	1 105	1 840	1 500	3 600	230
1 050	1 275	2 070	1 750	3 900	230
1 200	1 445	2 300	1 900	4 200	230

NOTES :

1. Splitter block and pitching to be provided at all outlets where erosion is likely to occur.
2. Splitter block may be omitted if discharge velocity is less than 0.9 m/s.
3. Cut-off walls may be omitted if structure is founded on rock.
4. For multiple pipe culverts increase dimensions 'E' and 'F' by $(n-1)(A+460)$ mm : Where n = number of pipes and A = nominal diameter of pipes
5. Pipes to be cut flush with headwall.
6. For skew pipe culverts the headwall shall be parallel to the centre line of the road.
7. If corrugated metal pipes are used 4x20mmx150mm long galvanised anchor bolts in the hollows of the corrugation are to be used.
8. All concrete is to be 20MPa.
9. Square mesh fabric (Reference S.M.F.193) is to be placed 50mm from top in all apron slabs and centrally in cut-off walls.
10. Brickwork is to consist of good quality burnt clay common bricks in accordance with SABS 227 Specification, or cement bricks in accordance with SABS 987 Specification, uniform in size and shape layed in stretcher bond style with the skins tied together with galvanised crimped wire wall ties.
11. Brickforce is to be placed every 4th course.
12. Jointing on all visible faces to be pointed
13. No in-fill shall be larger than a half standard brick size unless 15MPa concrete is used.

NOTES

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8. CONSTRUCTION WAS IN ACCORDANCE WITH ALL RELEVANT DRAWINGS.
9. WHEN THE ENGINEER BE REQUIRED ON SITE, 48 HOURS NOTICE WAS GIVEN.

LEGEND

No.	DATE	REVISION	INIT.

CLIENT



FUNDER

RECOMMENDED	APPROVED
DESIGNED: F.D	CONTRACT No. :SLM/SCM/65/2025/2026
DRAWN: F.D	CHECKED: T.T
ENGINEER: T.T	DATE: 15-05-2026

IMBUMBA CONSULTANTS

Engineering & Project Management Consultants

Office:
MOUNT AYLIFF
P.O. BOX 83
MOUNT AYLIFF
4735
Phone: +27-72-310-4326
Fax: +27-86-660-6810



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PROGRAM

PROJECT
PAVING OF POLAR PARK
ACCESS ROAD-PHASE 1

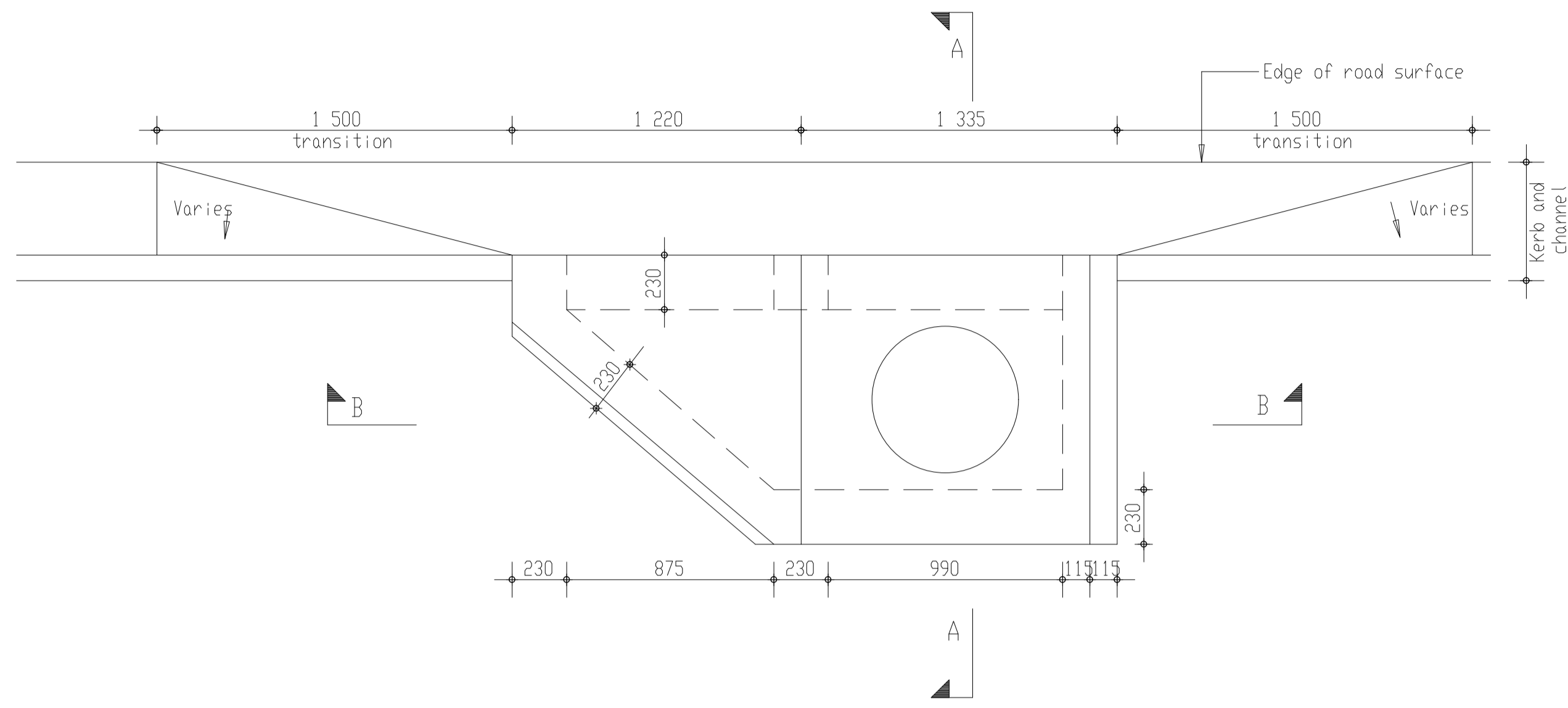
DRAWING TITLE
STORMWATER STANDARD DETAIL
PIPE CULVERT HEADWALL(MASONRY)

SUB-TITLE

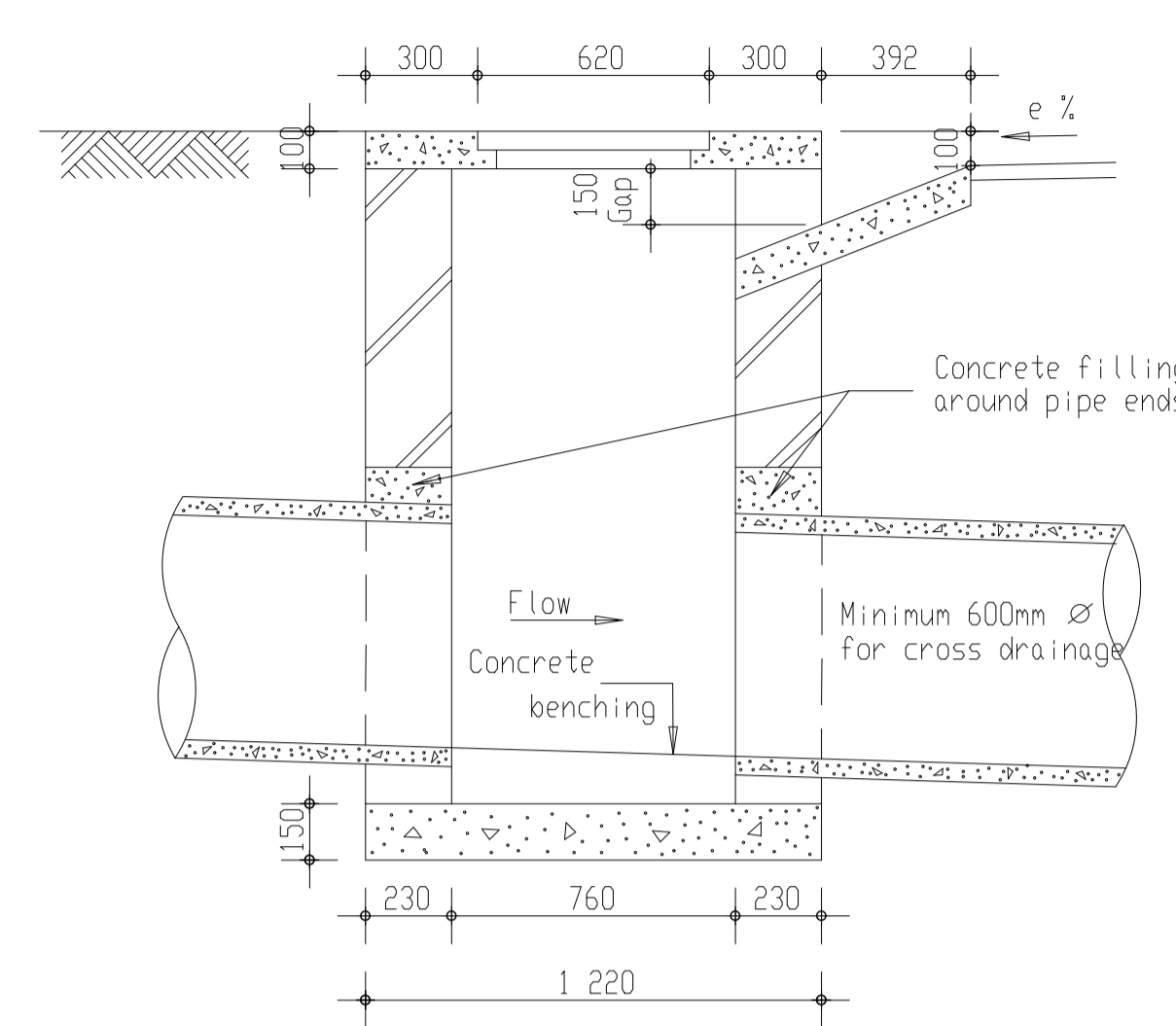
LAYOUT	
SCALE: AS SHOWN	DRAWING No.: SLM-PPAR-26-01-SD-03
PROJECT No.: 26-01	SHEET SIZE: A1

NOTES

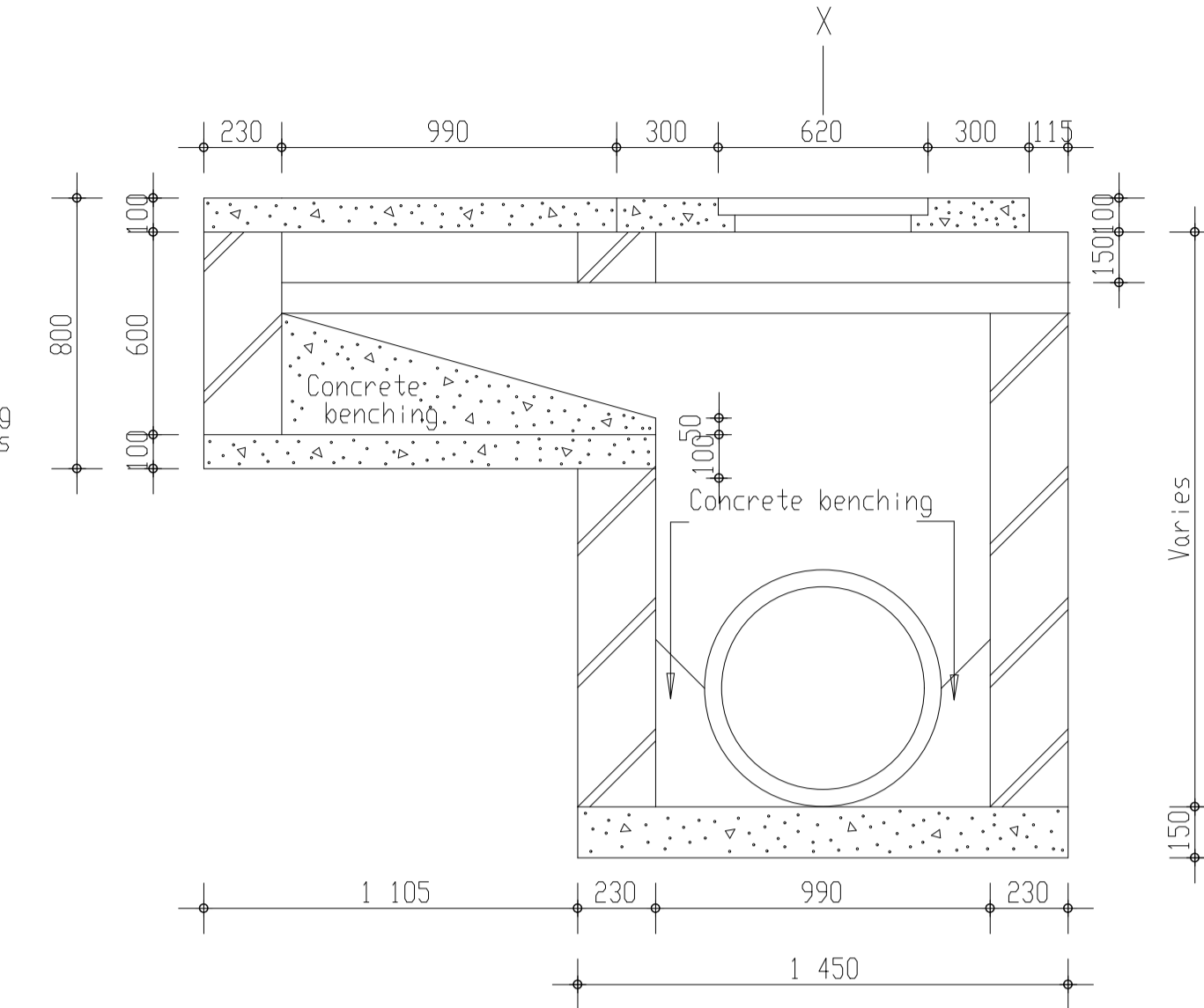
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PLAN OF SINGLE SPY (S1) SIDE INLET
Scale 1 : 25

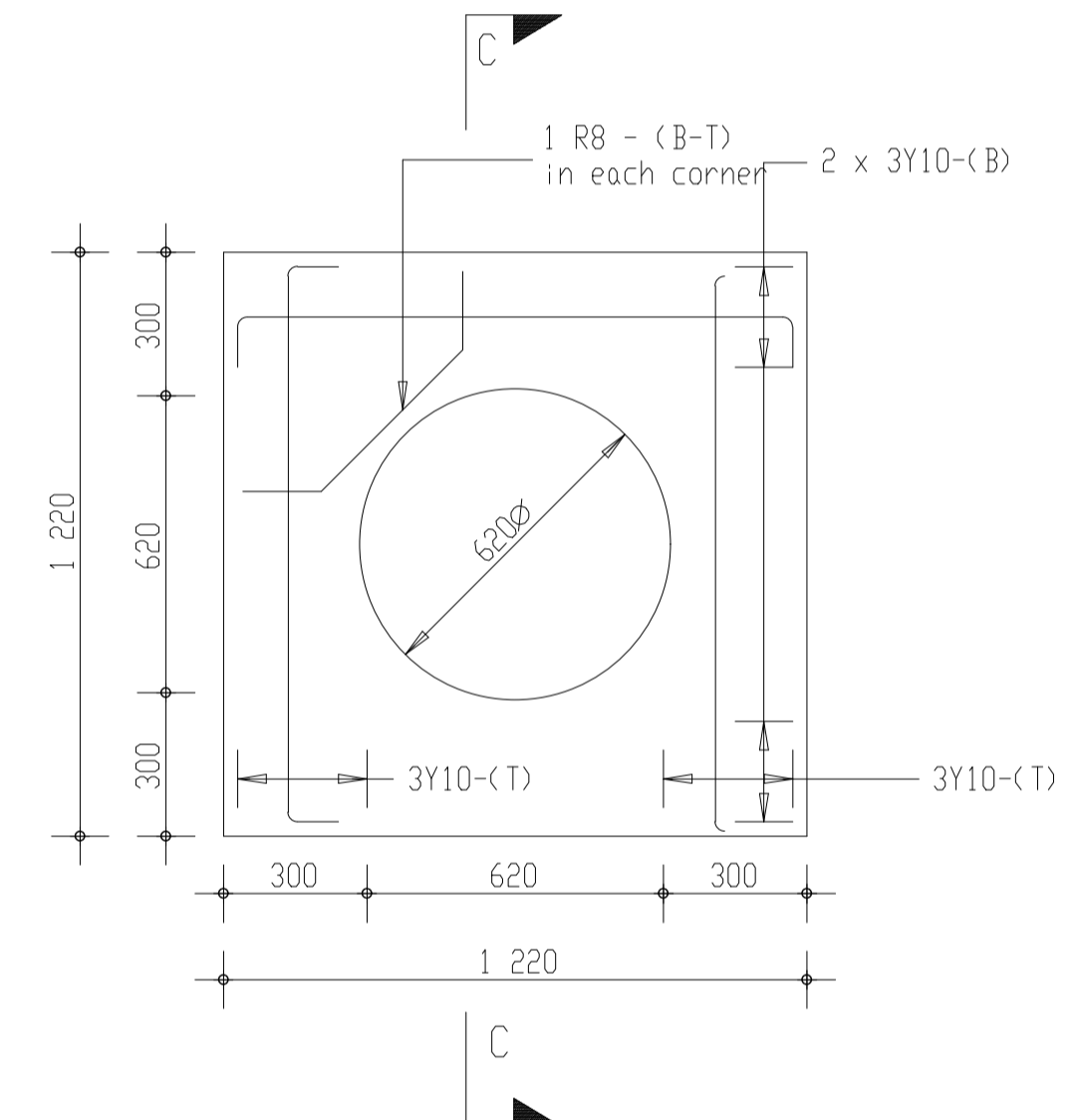


SECTION A-A
Scale 1 : 25

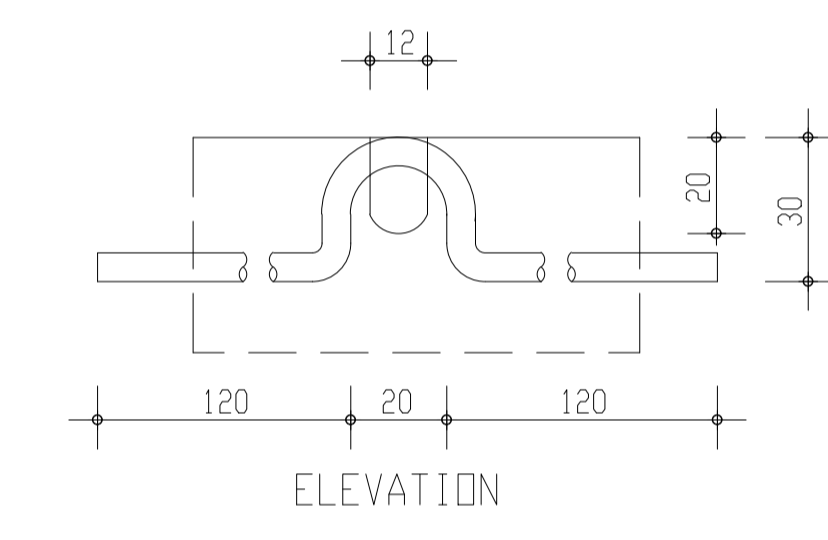


SECTION B-B
Scale 1 : 25

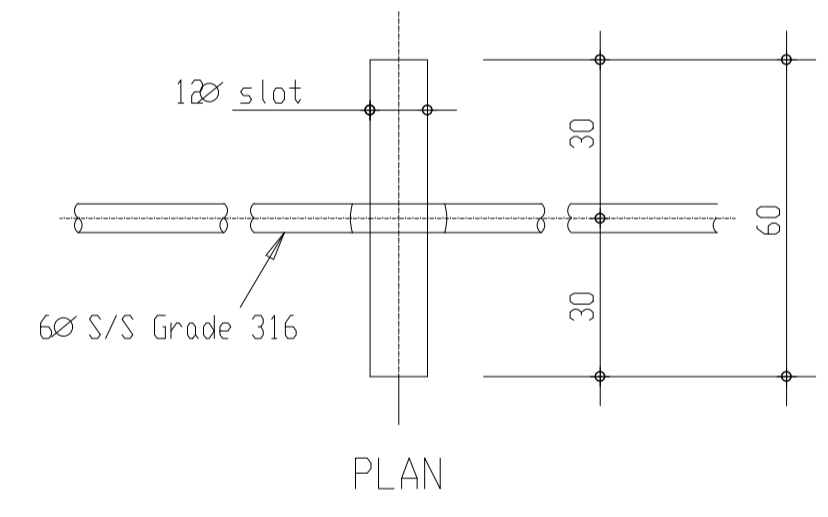
Note: For a double splay (D1) inlet the design is to be symmetrical about the X-X axis.



DETAILS OF COVER SLAB
Scale 1 : 20

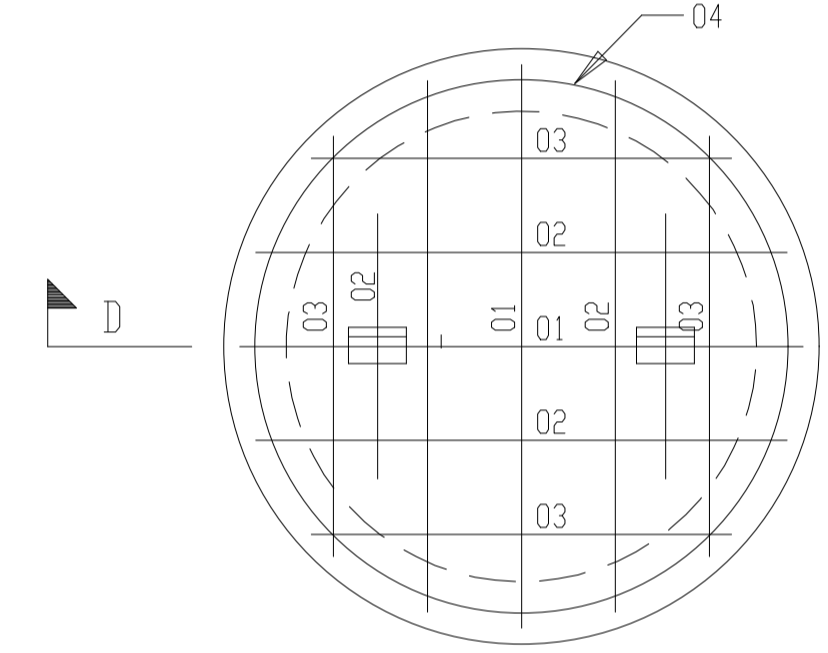


ELEVATION

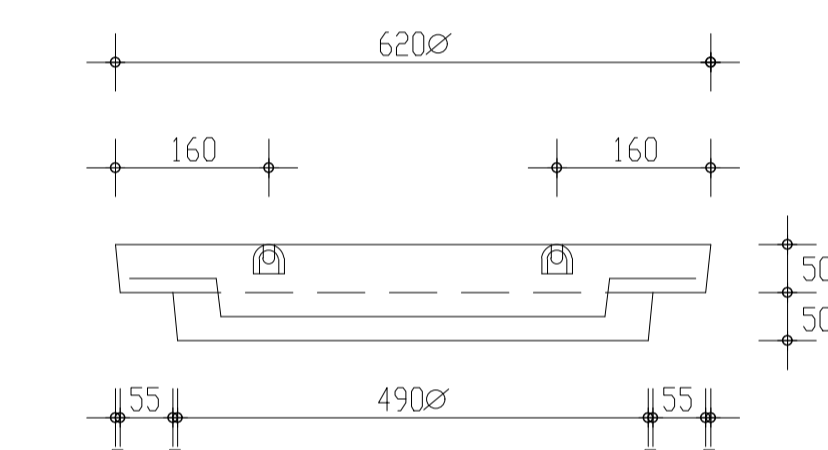


PLAN

DETAILS OF MANHOLE LIFTING LUG
Not to scale



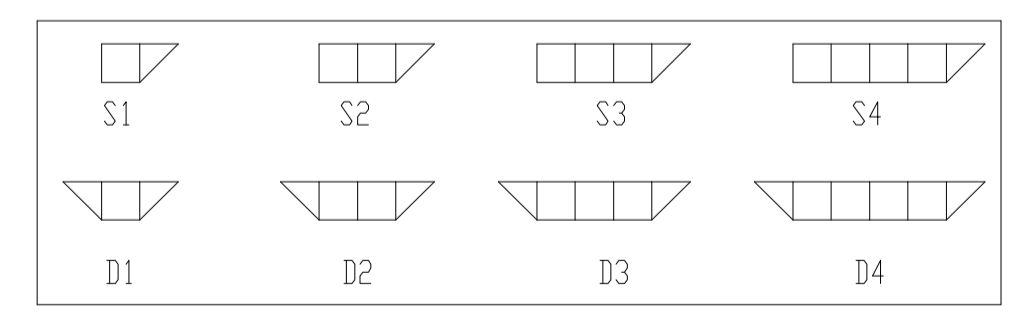
PLAN



SECTION D-D

DETAILS OF MANHOLE COVER

REINFORCEMENT SCHEDULE FOR MANHOLE COVER				LIGHT DUTY MANHOLE COVER
BARØ	MARK	No.	LENGTH	
R 8	01	2	660	
R 8	02	4	600	
R 8	03	4	520	
R 8	04	1	2 050	



INLET LEGEND

LEGEND

No.	DATE	REVISION	INIT.

CLIENT



FUNDER

RECOMMENDED	APPROVED
DESIGNED: F.D	CONTRACT No. SLM/SCM/65/2025/2026
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Engineering & Project Management Consultants

Office: MOUNT AYLIFF
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4735
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PROGRAM

PROJECT
PAVING OF POLAR PARK
ACCESS ROAD-PHASE 1

DRAWING TITLE
STORMWATER STANDARD DETAIL
SIDE INLET

SUB-TITLE

LAYOUT	
SCALE: AS SHOWN	DRAWING No.: SLM-PPAR-26-01-SD-04
PROJECT No.: 26-01	SHEET SIZE: A1