

04 November 2019

Ga-Rankuwa City Civil Works Tender Briefing

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- 2. Civil Works Scope & Drawings**
- 3. Construction Programme**
- 4. Local Participation**

1 – PROJECT OVERVIEW

Project Overview

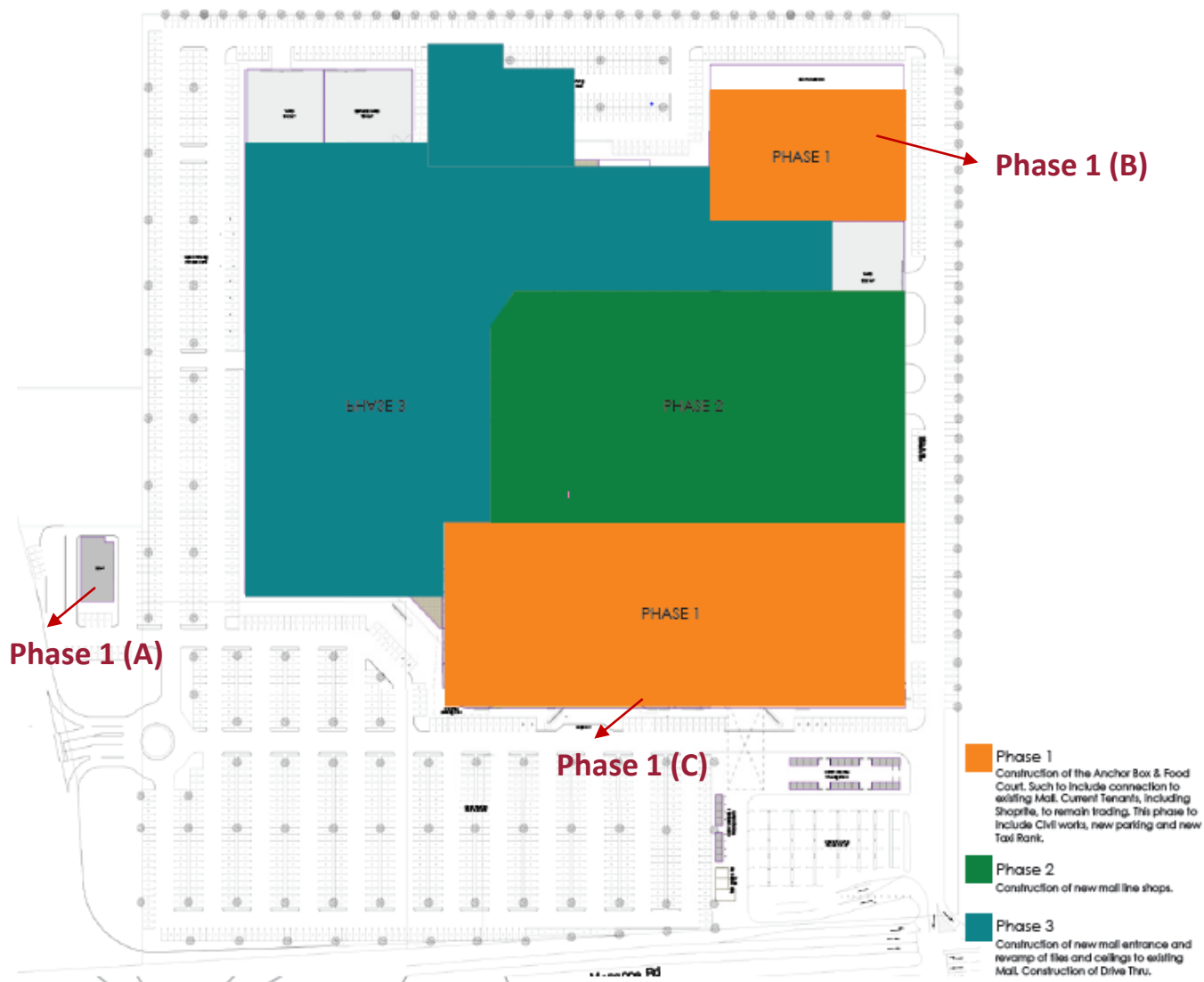
The Ga-Rankuwa City project is a complex project with numerous delivery challenges, mainly due to the following:

- Sections of the centre will remain operational during construction;
- The project will be executed in a phased construction approach;
- It is difficult to establish clear boundaries between each phase;
- Various Health & Safety related challenges during construction due to phasing and live environment;
- Sequencing and overlapping activities result in strict delivery milestones;
- Consequences of any potential delays are severe due to programming around December periods

Project Overview Continued



Project Overview Continued



2.1 – CIVIL WORKS SCOPE

Civil Works Scope

- Section 1 (priority deliverables):
 - Demolitions of existing structures and hardstands related to the new Shoprite platform.
 - Bulk Earthworks and preparation of the new Shoprite platform.
 - Sectional handover required to Main Building Contractor once completed.
- Section 2 (All other deliverables):
 - All Bulk Earthworks and Civil works within the site perimeter.
 - Installation of new boundary fence.
 - Demolitions of various existing structures.
 - Various minor ad hoc preparatory activities.
 - Construction of new entrance and Upgrading of existing entrance (Provisional scope subject to necessary statutory approvals).

Post Briefing SOW Clarification

Section 1:

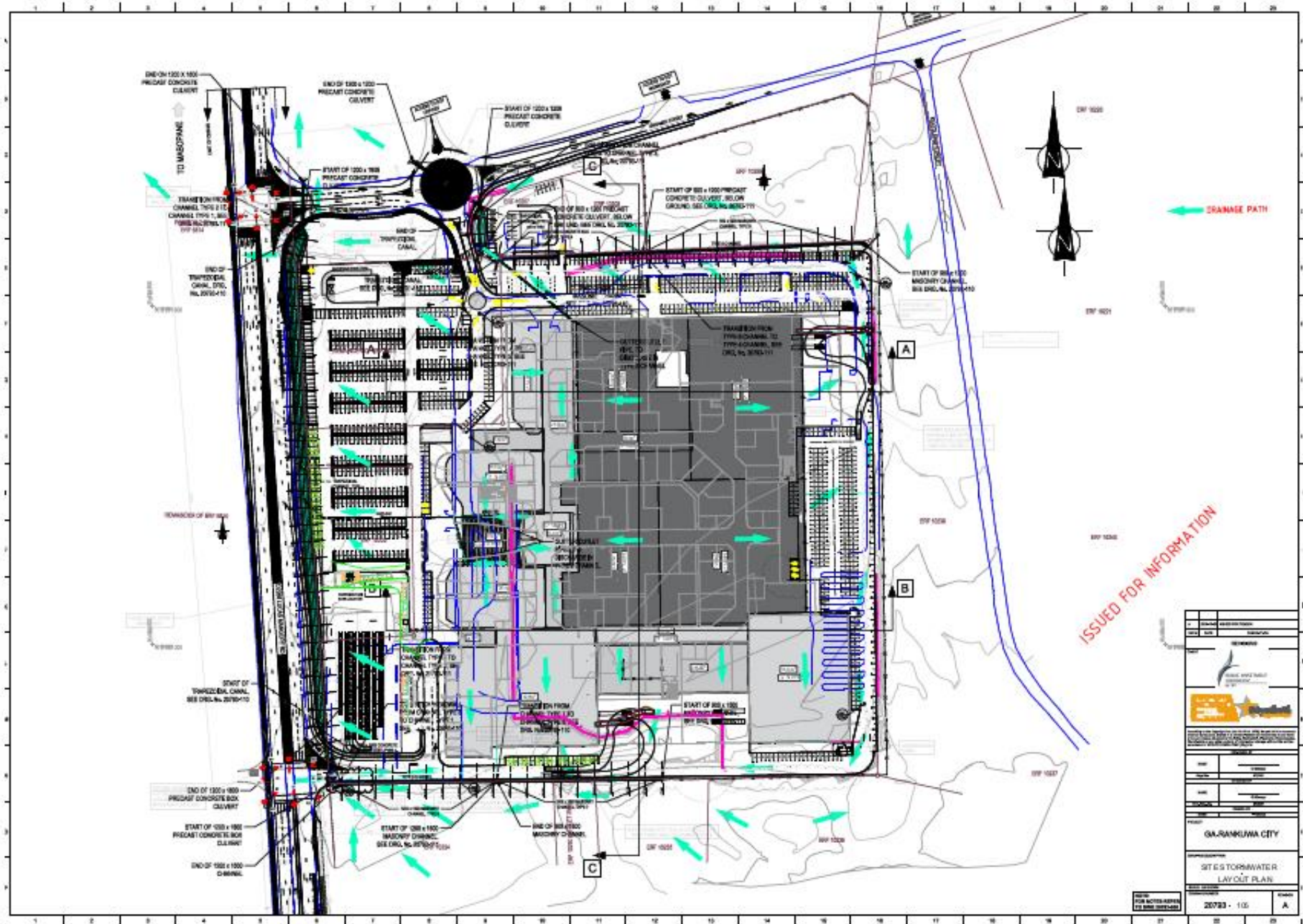
- **Site Preparation and enabling works**
 - Grubbing and site preparation
 - Relocation of Taxi Rank and Informal Traders Market
 - Demolitions
 - Existing structures and hardstands related to the new Shoprite platform (Old Taxi Rank)
 - Demolition of Romans Pizza
 - Demolition of Taxi Association Offices
 - Relocation of Cell phone tower (by others)
- **Civil Works**
 - Sewer line remedial works
 - Stormwater reticulation
 - Layer-works to roads and pavements
 - Construction of new entrance and Upgrading of existing entrance (Provisional scope subject to necessary statutory approvals)
 - Various minor ad hoc preparatory activities.

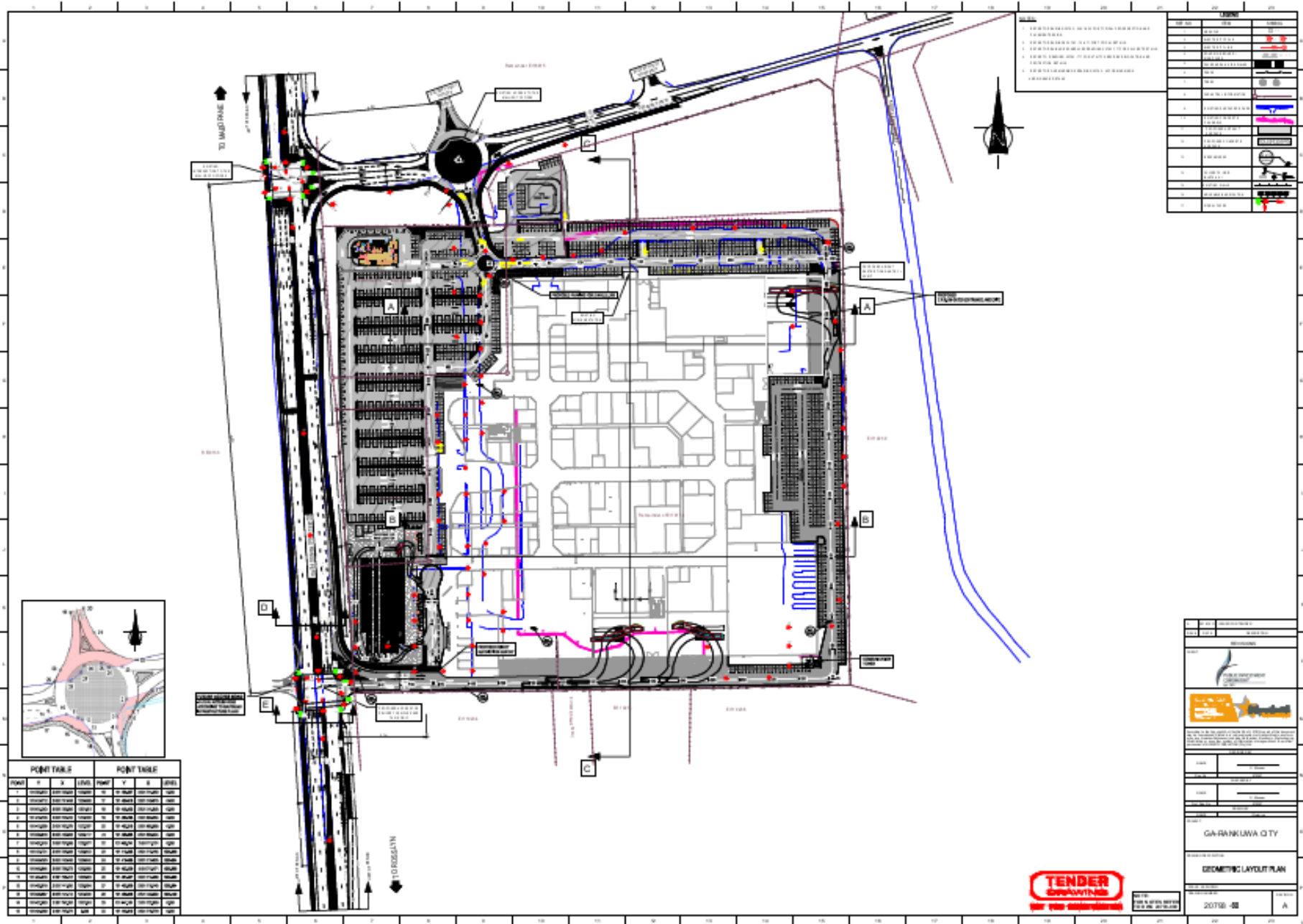
Post Briefing SOW Clarification

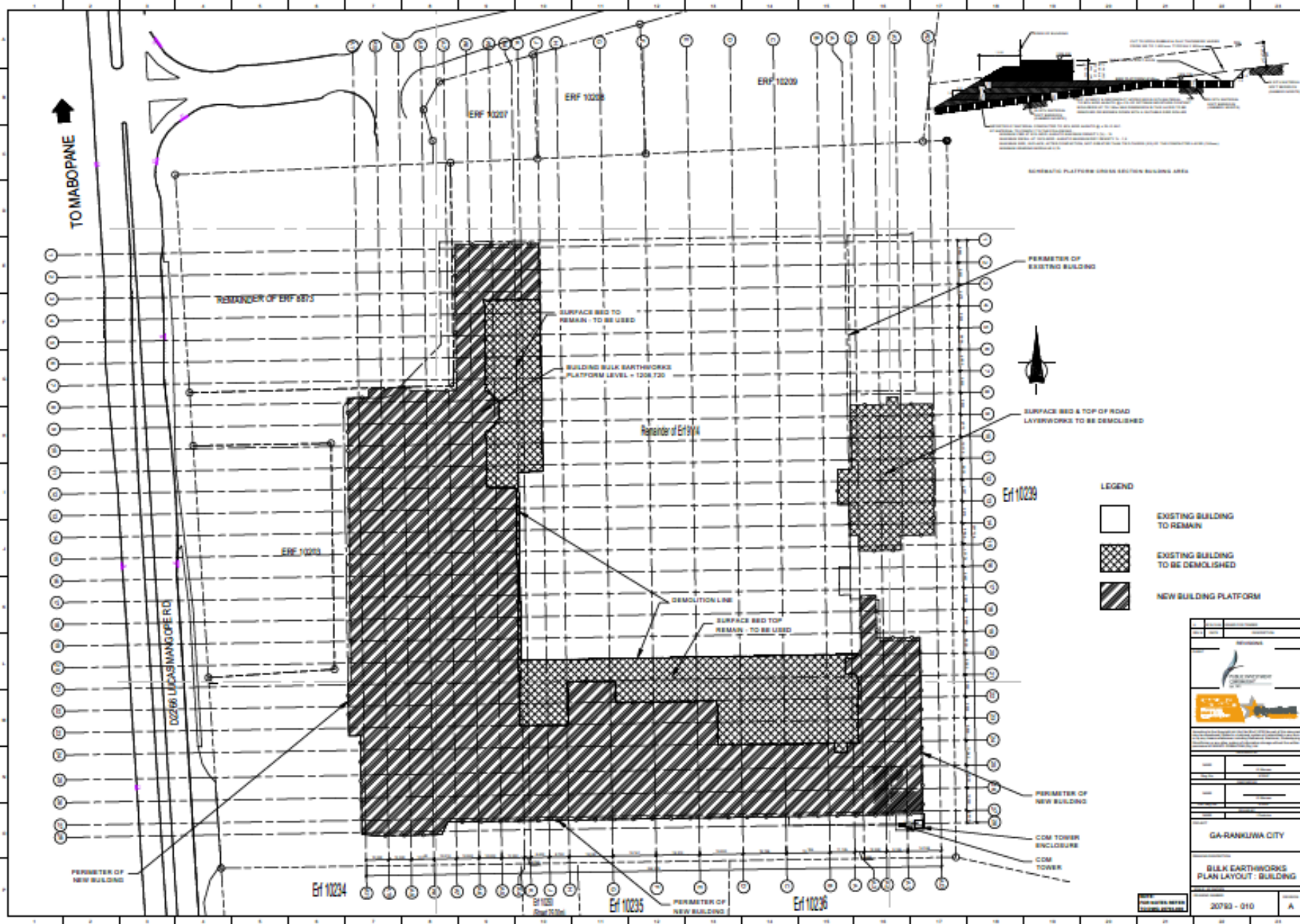
Section 2:

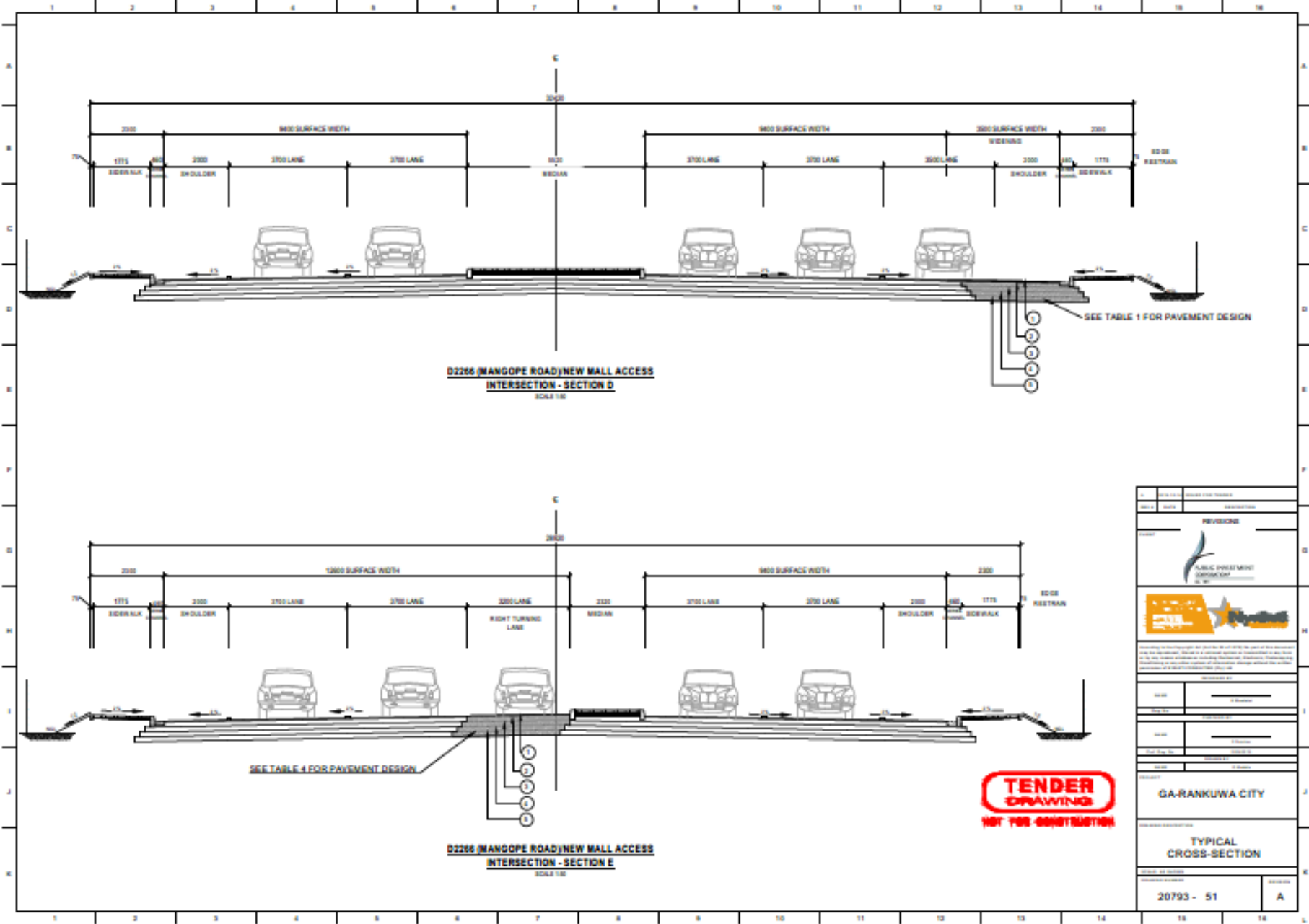
- **Construction of platforms and bases**
 - Perimeter retaining wall
 - Secured perimeter fence and associated pedestrian access points
 - Preparation of Shoprite platform
 - Preparation of South Line Shops and Food Court platforms
- **Construction of auxiliary buildings and canopies**
 - Construction of New Taxi Rank platforms and canopies
 - Sectional handover required to Main Building Contractor once completed

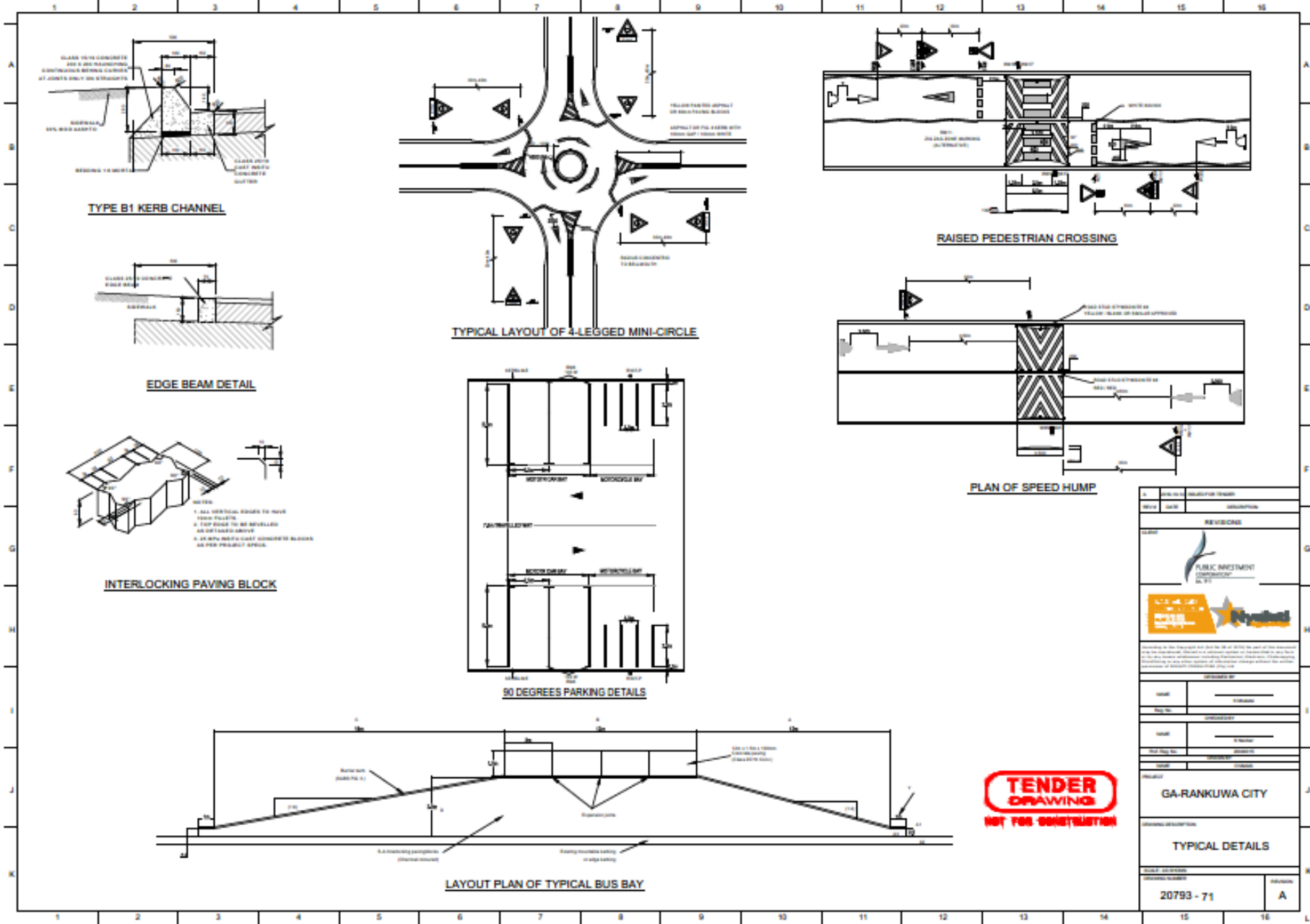
2.2 – CIVIL WORKS DRAWINGS











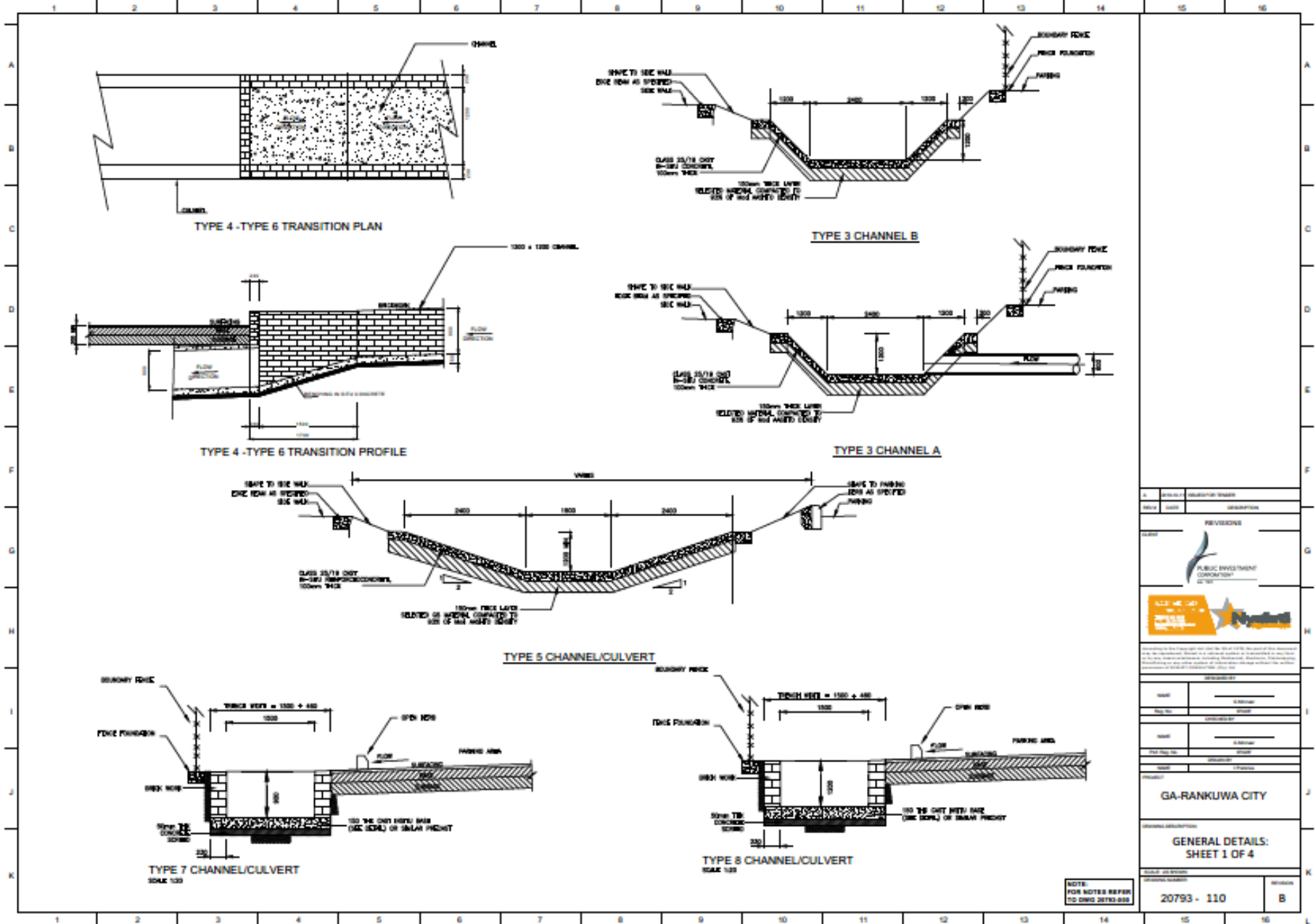


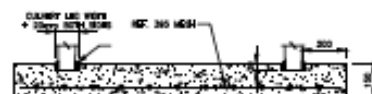
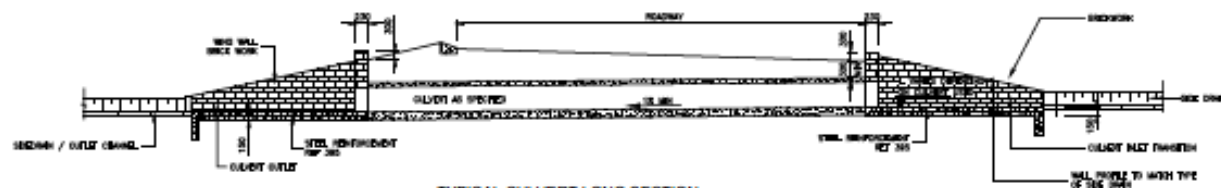


TENDER
DRAWING
NO. 100-000-000-000

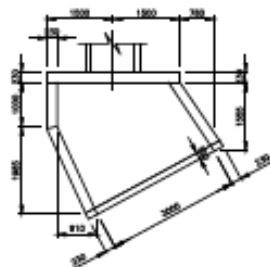
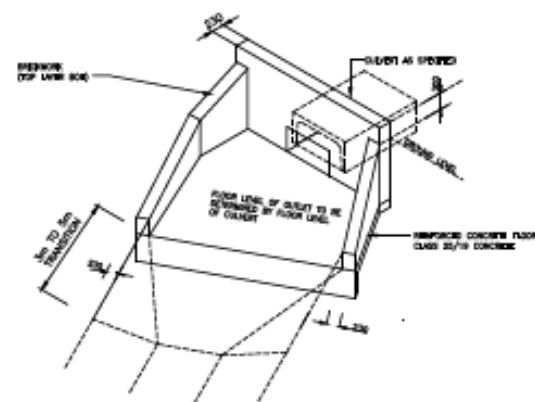
NOTES FOR BIDDERS
SEE ALSO DRAWING NO. 100-000-000-000

PROJECT NO. 100-000-000-000
 DRAWING NO. 100-000-000-000
 DATE 2017-05-19
 PROJECT NAME F.COD RETENTION VALLEY
 PROJECT LOCATION F.COD RETENTION VALLEY
 PROJECT OWNER SA-RAMOLWA CITY
 PROJECT MANAGER 28700-102

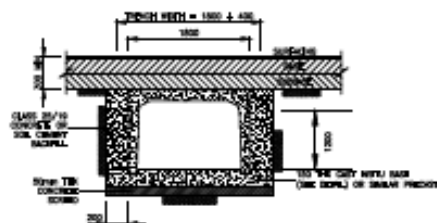




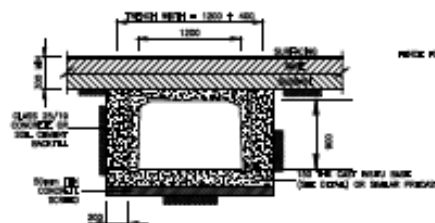
CAST INSITU BASE FOR PRECAST PORTAL CULVERTS

PLAN OF TYPICAL INLET/OUTLET
SCALE 1/80

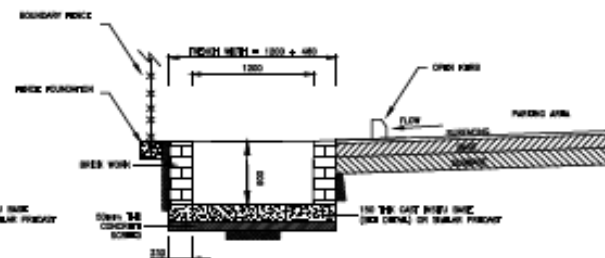
TYPICAL CULVERT INLET/OUTLET



TYPE 1 CHANNEL/CULVERT
SCALE 1:50

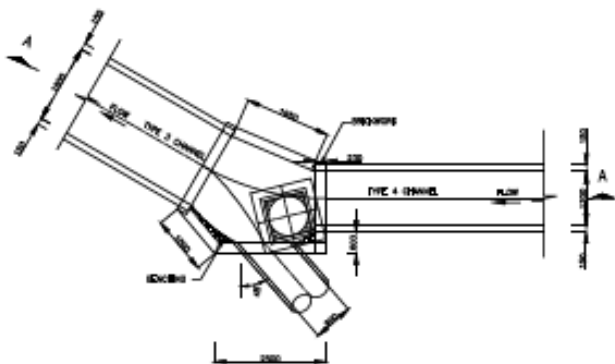


TYPE 3 CHANNEL/CULVERT

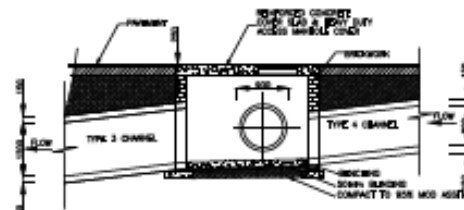


TYPE 6 CHANNEL/CULVERT

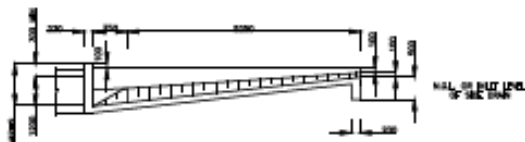
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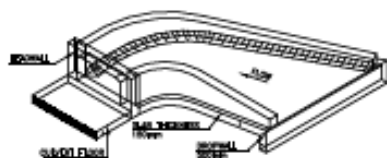
TRANSITION MANHOLE ELEVATION PLAN



TRANSITION MANHOLE ELEVATION PROFILE

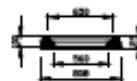
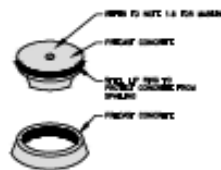


INLET TO TYPE 1 CHANNEL PROFILE



INLET TO TYPE 1 CHANNEL PLAN

MANHOLE FRAME AND COVER



PRECAST CONCRETE FRAME AND COVER

1. MANHOLE

- 1.1 All precast manhole sections shall comply with the relevant requirements of SABS 1000.
- 1.2 The manhole shall be installed within the structure indicated on the drawings.
- 1.3 Dimensions of precast manhole sections are approximate and they vary slightly according to different manufacturer's specifications.
- 1.4 Position of manhole shall be directly above the P of adjoining sewerage pipes.
- 1.5 The function of the combination precast manhole section is to replace the existing manhole section, unless otherwise specified.
- 1.6 An example of manhole section shall have the letters "M" formed or engraved on top. If not noted shall be 1000mm x 1000mm high and 1000mm wide.

2. CAST-IN-SITU COVER SLABS

- 2.1 Measurement B is always smaller than A.
- 2.2 Concrete to be cast in situ.
- 2.3 Concrete to be cast for a minimum period of 7 days.
- 2.4 Minimum cover to reinforcement is 50mm.
- 2.5 Type, size and spacing of reinforcement as specified in Table 6.
- 2.6 Main reinforcement to be shape code 16, with total length 10m. Reinforcement shall be 1000mm x 1000mm for slabs with a span not exceeding 1000mm. Where the notes are required and shape code 20 is used.

NOTE:
FOR NOTES REFER
TO DWS 20793-000

NOTES

1. USE OF OUTLET STRUCTURE
- 1.1 THE TYPE OF OUTLET STRUCTURE SHALL BE AS SPECIFIED ON THE DRAWING. THE TYPE OF OUTLET STRUCTURE SHALL BE AS SPECIFIED ON THE DRAWING. THE TYPE OF OUTLET STRUCTURE SHALL BE AS SPECIFIED ON THE DRAWING.
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NO.	DATE	DESCRIPTION
1	2019-05-19	ISSUED FOR TENDER
2	2019-05-19	ISSUED FOR TENDER
3	2019-05-19	ISSUED FOR TENDER

REVISIONS

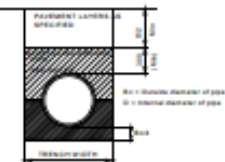


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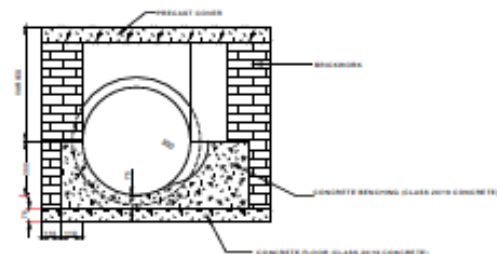
GA-RANKUWA CITY	
GENERAL DETAILS: SHEET 3 OF 4	

20793 - 112	C
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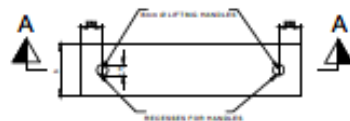


CLASS B BEDDING

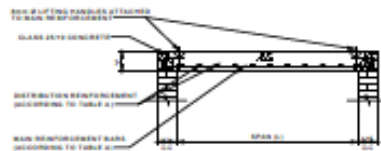
NOTE:
BEDDING SHALL BE OF AN APPROVED
SELECTED CONCRETE MATERIAL WITH A
PLASTIC INDEX OF 8.
BEDDING MATERIAL SHALL BE COMPACTED
TO 95% OF MDD (ASTM D1557).



SECTION A-A



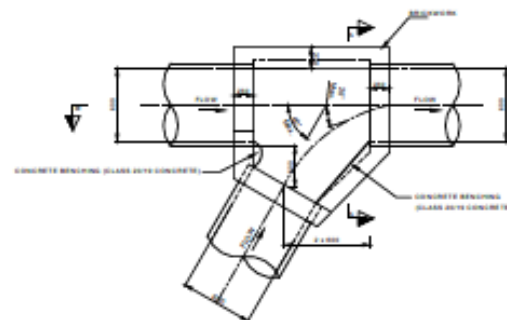
PLAN OF PRECAST COVER SLAB



SECTION A-A

Span (mm)	Thickness (mm)	Main Reinforcement	
A	T	Ø 10 @ 150	Ø 10 @ 150
100 to 150	125	Ø 10 @ 150	Ø 10 @ 150
150 to 200	150	Ø 10 @ 150	Ø 10 @ 150
200 to 250	175	Ø 10 @ 150	Ø 10 @ 150
250 to 300	200	Ø 10 @ 150	Ø 10 @ 150
300 to 350	225	Ø 10 @ 150	Ø 10 @ 150
350 to 400	250	Ø 10 @ 150	Ø 10 @ 150
400 to 450	275	Ø 10 @ 150	Ø 10 @ 150
450 to 500	300	Ø 10 @ 150	Ø 10 @ 150
500 to 550	325	Ø 10 @ 150	Ø 10 @ 150
550 to 600	350	Ø 10 @ 150	Ø 10 @ 150
600 to 650	375	Ø 10 @ 150	Ø 10 @ 150
650 to 700	400	Ø 10 @ 150	Ø 10 @ 150
700 to 750	425	Ø 10 @ 150	Ø 10 @ 150
750 to 800	450	Ø 10 @ 150	Ø 10 @ 150
800 to 850	475	Ø 10 @ 150	Ø 10 @ 150
850 to 900	500	Ø 10 @ 150	Ø 10 @ 150
900 to 950	525	Ø 10 @ 150	Ø 10 @ 150
950 to 1000	550	Ø 10 @ 150	Ø 10 @ 150

Reinforcement shall be of 100% yield strength @ 400 N/mm² for all spans.
Refer to notes for bedding details.



PLAN OF TYPE C JUNCTION BOX (WITHOUT COVER SLAB)

SOIL TYPE 2: SLIGHTLY COHESIVE (SAND AND GRAVEL)
TRAFFIC LOAD: 100T (PRINCIPAL ROADS AND STREET), DISTRICT ROADS

CLASS B BEDDING

PIPE DIA.	100	150	200	250	300	350	400	450	500	550	600
100	100	100	100	100	100	100	100	100	100	100	100
150	100	150	150	150	150	150	150	150	150	150	150
200	100	150	200	200	200	200	200	200	200	200	200
250	100	150	200	250	250	250	250	250	250	250	250
300	100	150	200	250	300	300	300	300	300	300	300
350	100	150	200	250	300	350	350	350	350	350	350
400	100	150	200	250	300	350	400	400	400	400	400
450	100	150	200	250	300	350	400	450	450	450	450
500	100	150	200	250	300	350	400	450	500	500	500
550	100	150	200	250	300	350	400	450	500	550	550
600	100	150	200	250	300	350	400	450	500	550	600

LEGEND



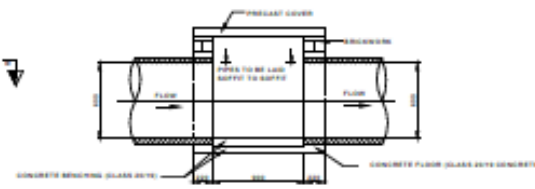
AUTHORISED TRENCH WIDTHS

PIPE DIA.	TRENCH WIDTH	PIPE DIA.	TRENCH WIDTH
100	800	1000	1800
150	900	1200	2100
200	1000	1300	2200
250	1070	1400	2300
300	1100	1500	2400
350	1170	1600	2500
400	1200	1700	2600

1. GENERAL

- 1.1 THE DESIGN LENGTH AND WIDTH OF THE TRENCH SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 1.2 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.3 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.4 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.5 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.6 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.7 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.8 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.9 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.10 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.

PIPE CLASS SELECTION FOR RIGID BURIED PIPES IN TRENCH CONDITIONS (INCLUDING BEDDING AND CONSTRUCTION SPECIFICATIONS)

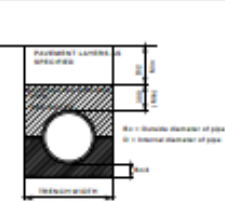


SECTION B-B

NOTES

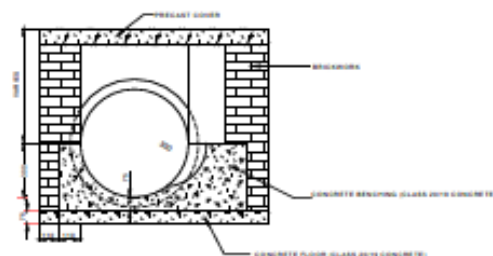
1. JUNCTION BOX CONSTRUCTION
- 1.1 JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN AND SHALL BE OF AN APPROVED MATERIAL.
- 1.2 JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN AND SHALL BE OF AN APPROVED MATERIAL.
- 1.3 JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN AND SHALL BE OF AN APPROVED MATERIAL.
- 1.4 JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN AND SHALL BE OF AN APPROVED MATERIAL.
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- 1.10 JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN AND SHALL BE OF AN APPROVED MATERIAL.

NAME	DESIGNER
DATE	DATE
REVISIONS	
NO.	DESCRIPTION
1	REVISION
PUBLIC INVESTMENT GUARANTEE	
GA-RANKUWA CITY	
GENERAL DETAILS: SHEET 4 OF 4	
NOTE: FOR NOTES REFER TO DWG 20793-113	REVISION
20793 - 113	B

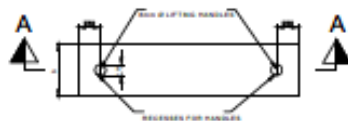


CLASS B BEDDING

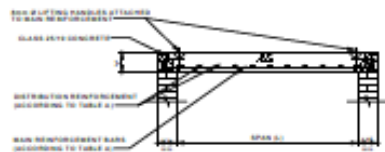
NOTE:
BEDDING SHALL BE OF AN APPROVED
SELECTED CONCRETE MATERIAL WITH A
PLASTIC INDEX NUMBER 8.
BEDDING MATERIAL SHALL BE COMPACTED
TO 95% OF MDD (AIR-DRY DENSITY).



SECTION A-A

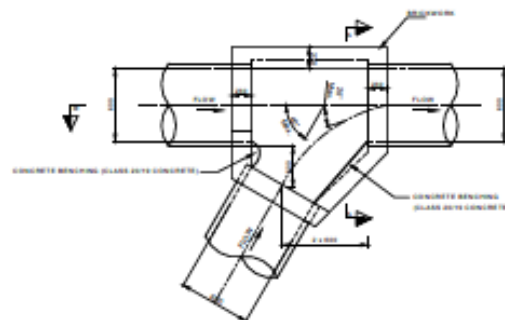


PLAN OF PRECAST COVER SLAB SCALE 1:20



SECTION A-A SCALE 1:20

TABLE A: PRECAST COVER SLAB REINFORCEMENT DETAILS				
Span (mm)	Thickness (mm)	Main Reinforcement		
A	T	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
100 to 150	125	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
150 to 200	150	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
200 to 250	175	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
250 to 300	200	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
300 to 350	225	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
350 to 400	250	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
400 to 450	275	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
450 to 500	300	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
500 to 550	325	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
550 to 600	350	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
600 to 650	375	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
650 to 700	400	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
700 to 750	425	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
750 to 800	450	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
800 to 850	475	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
850 to 900	500	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
900 to 950	525	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100
950 to 1000	550	Ø 12 @ 100	Ø 12 @ 100	Ø 12 @ 100



PLAN OF TYPE C JUNCTION BOX (WITHOUT COVER SLAB)

SOIL TYPE 2: SLIGHTLY COHESIVE (SAND AND GRAVEL) TRAFFIC LOAD: 100T (PRINCIPAL ROADS AND STREET), DISTRICT ROADS

CLASS B BEDDING

PIPE DIA.	100	150	200	250	300	350	400	450	500	550	600
DEPTH OF COVER (m)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
0.30											
0.40											
0.50											
0.60											
0.70											
0.80											
0.90											
1.00											
1.10											
1.20											
1.30											
1.40											
1.50											
1.60											
1.70											
1.80											
1.90											
2.00											

LEGEND

	CLASS B
	CLASS C
	CLASS D

AUTHORISED TRENCH WIDTHS

PIPE DIA.	TRENCH WIDTH	PIPE DIA.	TRENCH WIDTH
100	800	1000	1800
150	900	1200	2100
200	1000	1300	2200
250	1070	1400	2300
300	1150	1500	2400
350	1220	1600	2500
400	1300	1700	2600
450	1380	1800	2700
500	1460		

1. GENERAL

- 1.1 THE DESIGN LENGTH AND WIDTH OF THE TRENCH SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 1.2 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.3 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.4 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.5 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
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- 1.7 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.8 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.9 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.
- 1.10 THE TRENCH SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH.

PIPE CLASS SELECTION FOR RIGID BURIED PIPES IN TRENCH CONDITIONS (INCLUDING BEDDING AND CONSTRUCTION SPECIFICATIONS)



SECTION B-B

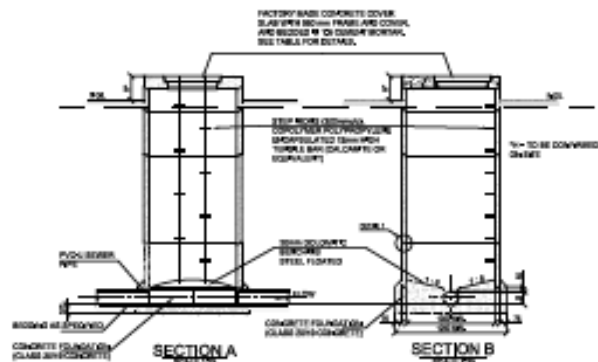
NOTES

1. JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN.
2. JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN.
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14. JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN.
15. JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN.
16. JUNCTION BOXES SHALL BE OF AN APPROVED DESIGN.

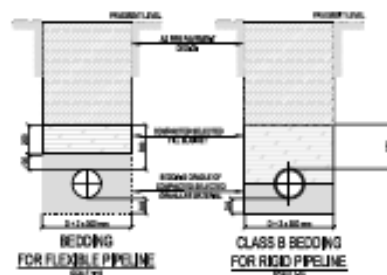
NAME	DESIGNER
DATE	DATE
REVISIONS	
NO.	DESCRIPTION
1	REVISION
PUBLIC INVESTMENT CORPORATION	
GA-RANKUWA CITY	
GENERAL DETAILS: SHEET 4 OF 4	
SCALE	DATE
20793 - 113	B



TYPICAL MANHOLE LAYOUTS SHOWING POSITIONS OF MANHOLE FRAME, STEPS AND CHANNELING



MANHOLE COVERS AND FRAMES (SANS 5014 / EN124)	
RECOMMENDED	TYPICAL
FRAMING WIDTH	2000
FRAMING	FRAMING
FRAMING	FRAMING
FRAMING	FRAMING
MANHOLE CHAMBER SIZES	
MANHOLE	CHAMBER
100	1000
150	1500
200	2000



NOTE:
FOR NOTES REFER
TO DRAWING BOARD-500

[illegible]

3 – CONSTRUCTION PROGRAMME

Construction Programme

Item	Key Milestones	Estimated Dates
1	Anticipated Appointment Date	10 December 2019
2	Site Establishment	January 2020
3	Construction Commencement	3 February 2020
4	Sectional Completion & Handover of Shoprite Platform	16 April 2020
5	Practical Completion	30 June 2020
6	Final Completion	30 September 2020

4 – LOCAL PARTICIPATION

Local Participation

Ga-Rankuwa City Development tender data requires that **30% of the construction contract value (as awarded)** must be targeted as local content for local suppliers and contractors.

In this regard, all established contractors in the Ga-Rankuwa City project are required to partner with emerging local enterprises (contractors and suppliers) for developmental purposes with a clear empowerment strategy with targets.

Tenderers to take of **Annexure E** in the tender document with specific reference to:

- Local Participation Area Classification
- Monitoring of Local Content
- Penalties Applicable

Tenderers to submit a comprehensive **Local Participation Plan** indicating how the target set out in Annexure E will be achieved.



QUESTIONS?



Thank You