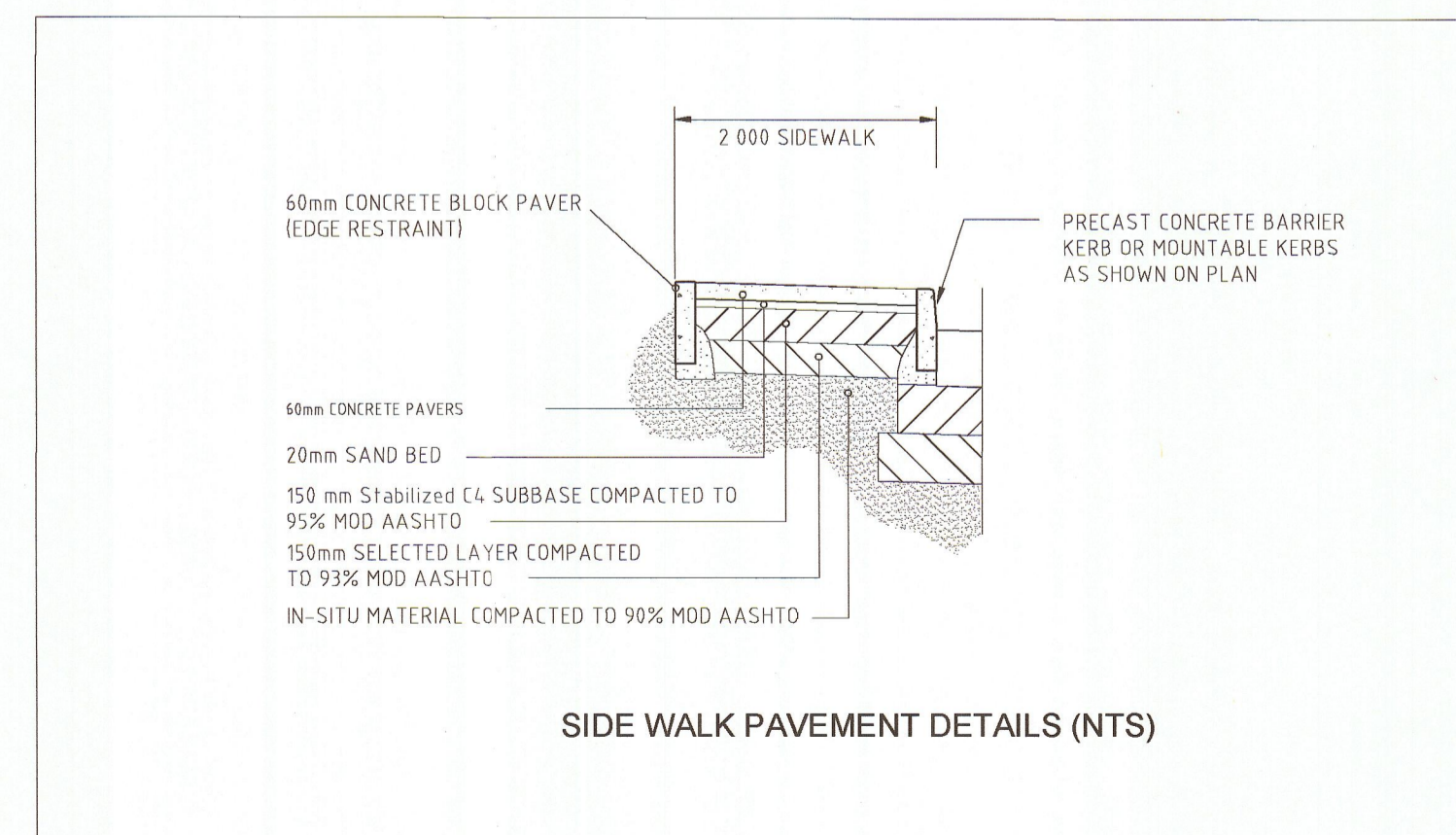
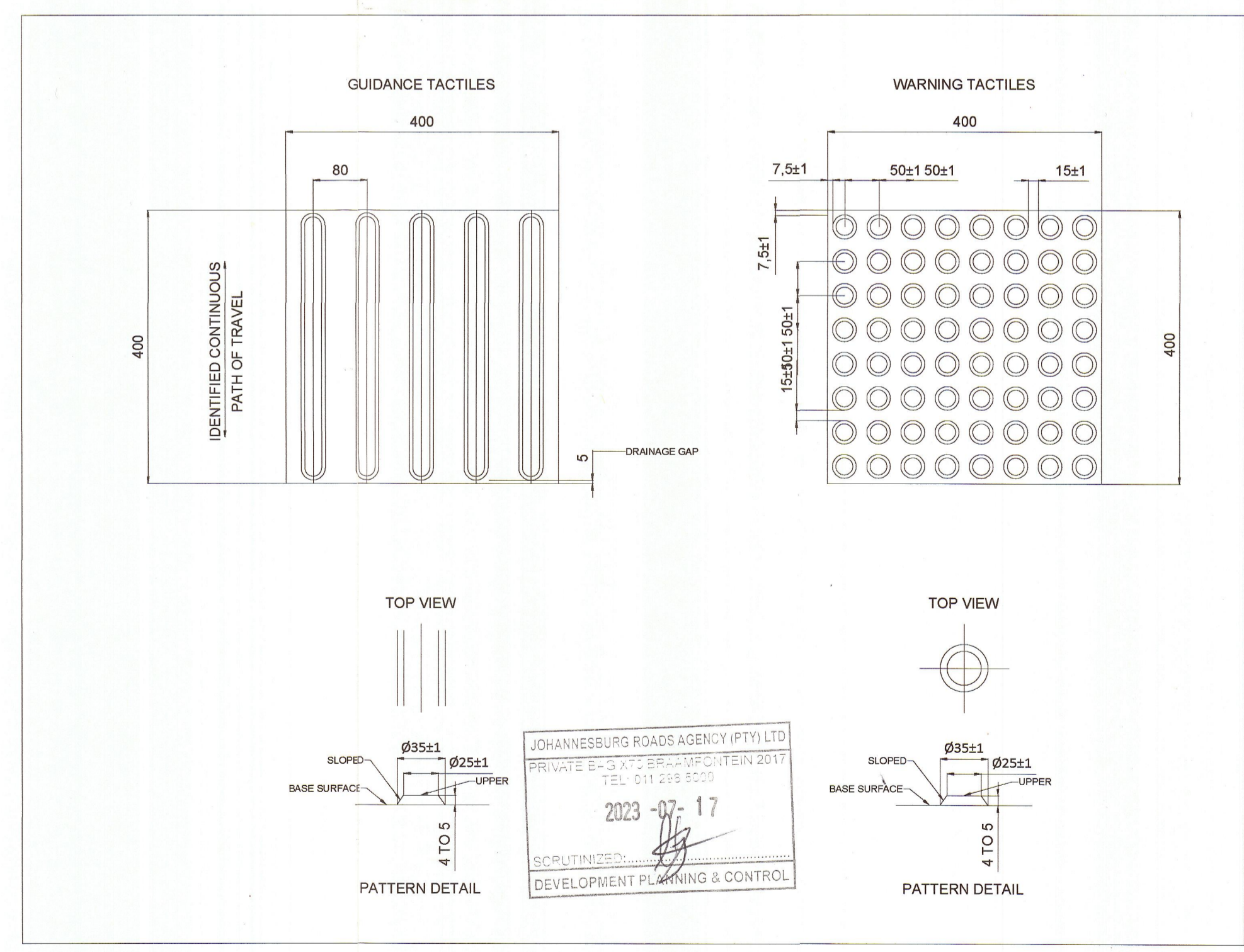


DISABLED RAMP AT ROAD INTERSECTION DETAILS (SCALE 1:50)



CLIENT'S DETAILS

Johannesburg Development Agency  
3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2009  
JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	19/05/2023	JKW	ORIGINAL	

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
- A FULL SET OF MATERIAL TESTS/COMPRESSION/CR & UCS) REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER.
- INTERSECTION SERVICES TO BE EXPOSED. POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL MEASUREMENTS ARE IN MILLIMETERS (MM)

CONSULTANT'S DETAIL

KABE CONSULTING ENGINEERS  
218 Dr VAN DER MERWE DRIVE  
MONTANA PARK  
0182  
Tel: 087 909 0982  
Fax: 086 516 4728  
e-mail: info@kabe.co.za

DESIGNED  
NAME: JK MPOKOTHE  
SIGNATURE: [Signature]  
DATE: 27/06/2023

DRAWN  
NAME: AMN NODIWA  
SIGNATURE: [Signature]  
DATE: 27/06/2023

CHECKED  
NAME: JK MPOKOTHE  
SIGNATURE: [Signature]  
DATE: 27/06/2023

INFORMATION OFFICE CHECKED  
NAME: TO MOENI  
SIGNATURE: [Signature]  
DATE: 27/06/2023

DESIGN OFFICE APPROVAL  
NAME: JK MPOKOTHE  
SIGNATURE: [Signature]  
DATE: 27/06/2023

CONTRACT No. JDA.10.188.A.2022  
PROJECT No.  
SHEET No. 05 of 05  
PAPER SIZE A1  
SCALE NTS  
DATE 27/06/2023

LOCATION OF PROJECT  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

DESCRIPTION OF PROJECT:  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

DRAWING DESCRIPTION:  
UNIVERSAL ACCESS DETAILS

DRAWING No.  
JDA-TD-004-V00-C

PROJECT STATUS

INCEPTION  DESIGN  TENDER DRAWING  APPROVAL/CONSTRUCTION  AS BUILT DRAWING

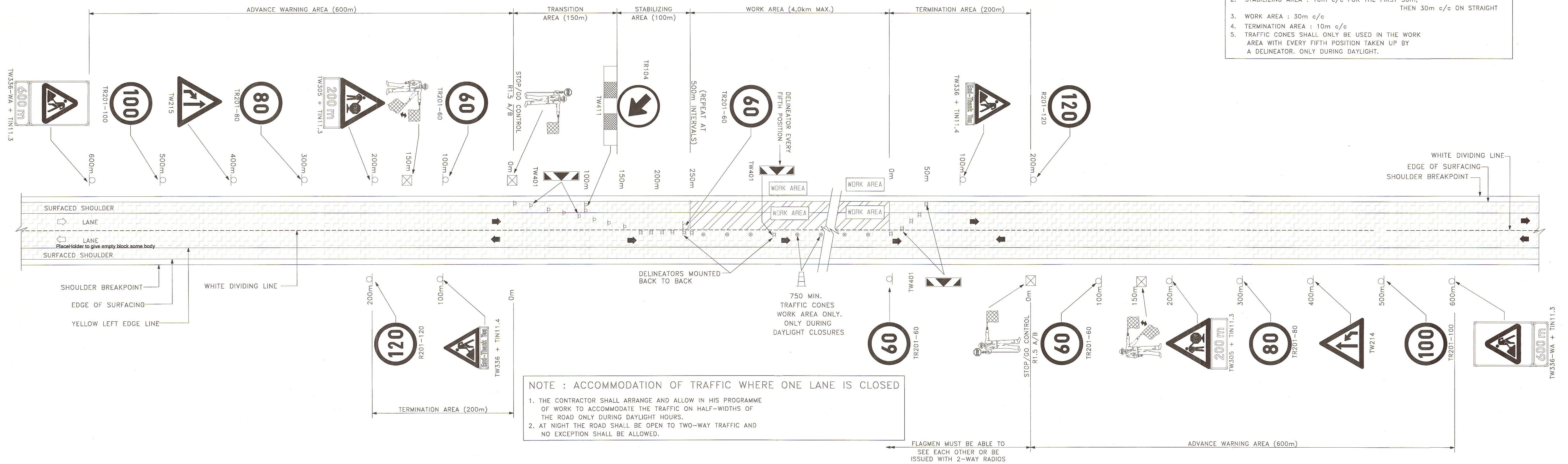
PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Prof Reg No. \_\_\_\_\_ DATE: \_\_\_\_\_

INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

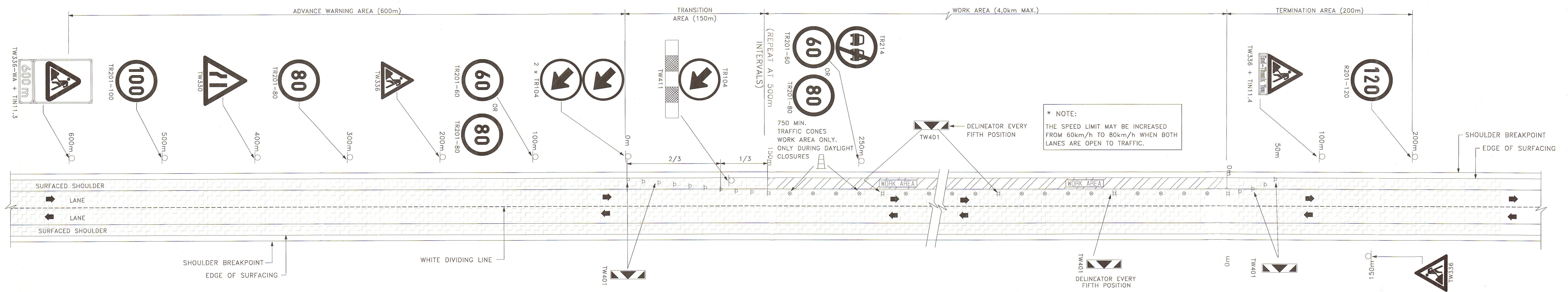
TEMPORARY ROAD TRAFFIC MANAGEMENT FOR 2-LANE SINGLE CARRIAGEWAY ROADS  
STOP / GO OPERATION & SHOULDER CONSTRUCTION : DAYLIGHT AND NIGHT-TIME CLOSURES

NOTE : SPACING OF DELINEATORS / CONES

1. TRANSITION AREA : 10m c/c
2. STABILIZING AREA : 10m c/c FOR THE FIRST 50m, THEN 30m c/c ON STRAIGHT
3. WORK AREA : 30m c/c
4. TERMINATION AREA : 10m c/c
5. TRAFFIC CONES SHALL ONLY BE USED IN THE WORK AREA WITH EVERY FIFTH POSITION TAKEN UP BY A DELINEATOR, ONLY DURING DAYLIGHT.





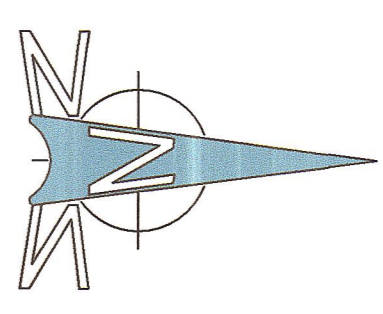
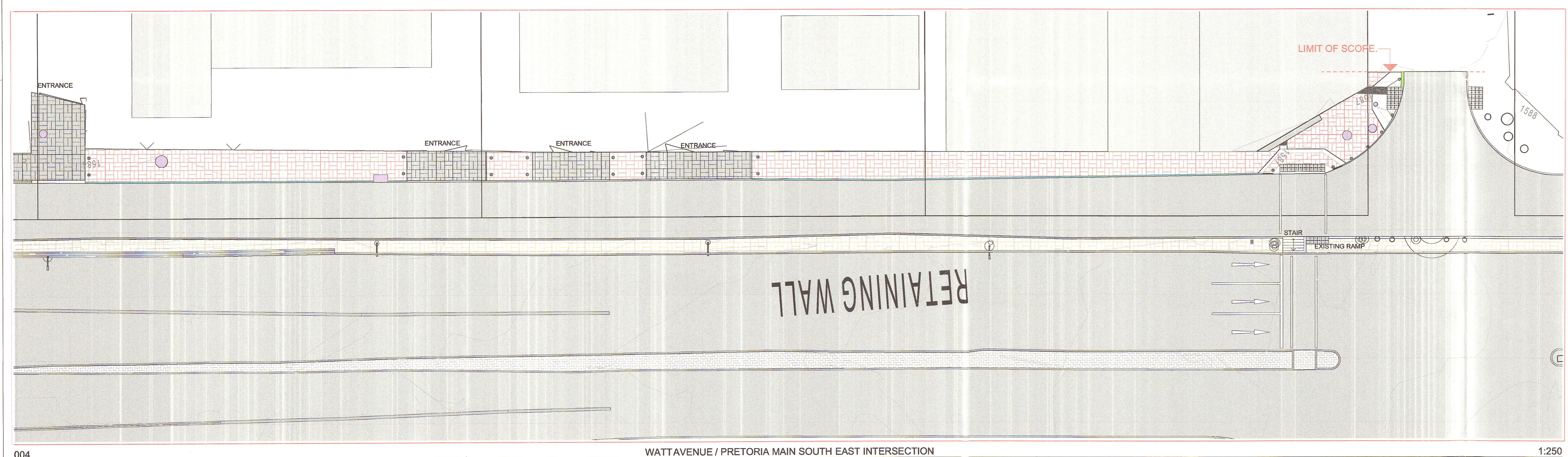
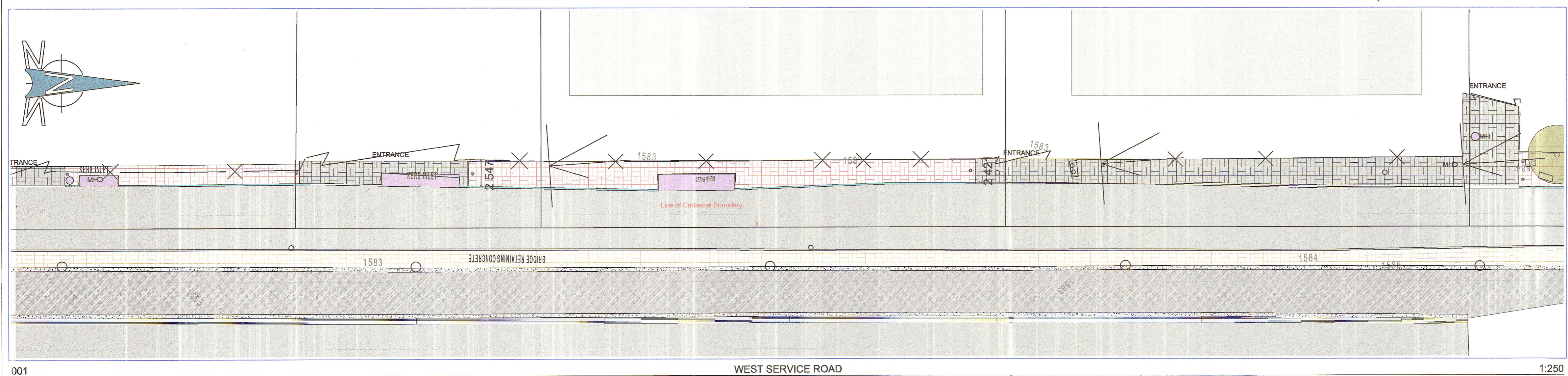
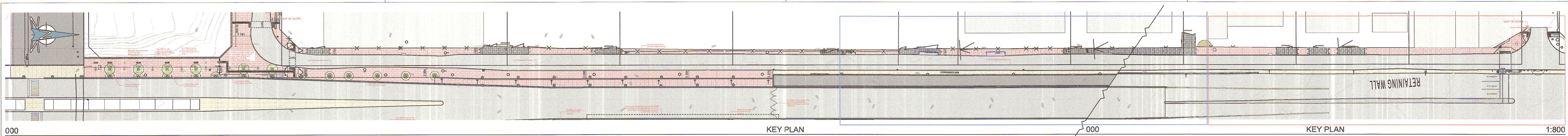
SIGN SEQUENCE FOR STOP / GO OPERATION FOR LANE AND SHOULDER CLOSURE ON SINGLE CARRIAGEWAY ROADS



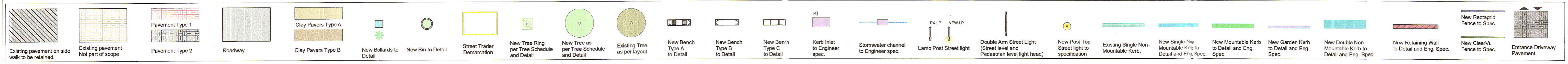
MAXIMUM SPEED LIMITS  
THE MAXIMUM SPEED LIMIT SHALL BE CONSISTENT WITH THE PREVAILING CONDITIONS OF THE DEVIATION IN TERMS OF ROAD SAFETY REQUIREMENTS

SIGN SEQUENCE FOR WORK ON SHOULDERS ON SINGLE CARRIAGEWAY ROADS

<b>CLIENT'S DETAILS</b>  Johannesburg Development Agency 3 Helen Joseph NEWTOWN, JOHANNESBURG 2000 JOHANNESBURG DEVELOPMENT AGENCY	<b>REVISIONS</b>		<b>NOTES:</b> 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS. 2. PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. 3. A FULL SET OF MATERIAL TESTS (COMPACTION, CBR & UCS) REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER. 4. INTERSECTION SERVICES TO BE EXPOSED. POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.	<b>CONSULTANT'S DETAIL</b>  KABE CONSULTING ENGINEERS 218 Dr VAN DER MERWE DRIVE MONTANA PARK 0182 Tel: 087 809 0982 Fax: 086 516 4728 e-mail: info@kabe.co.za	<b>DESIGNED</b> NAME: AMN NDIWA SIGNATURE: [Signature] DATE: 27/06/2023	CONTRACT No. JDA.10.198.A.2022	LOCATION OF PROJECT WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.	<b>PROJECT STATUS</b> INCEPTION <input type="checkbox"/> DESIGN <input type="checkbox"/> DEVELOPMENT <input type="checkbox"/> TENDER <input type="checkbox"/> DRAWING <input type="checkbox"/> APPROVED <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> DRAWING <input type="checkbox"/> AS BUILT <input type="checkbox"/> DRAWING <input type="checkbox"/>
	NR 0 DATE 27/06/2023 APPROVED JKM DESCRIPTION ORIGINAL PAR	<b>DRAWN</b> NAME: AMN NDIWA SIGNATURE: [Signature] DATE: 27/06/2023			PROJECT No. -	PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA): NAME: [Signature] SIGNATURE: [Signature] Prof Reg No. [ ] DATE: [ ]		
				<b>CHECKED</b> NAME: JK MOCHEANE SIGNATURE: [Signature] DATE: 27/06/2023	SHEET No. 01 of 01	DESCRIPTION OF PROJECT: WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES	PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA): NAME: [Signature] SIGNATURE: [Signature] Prof Reg No. [ ] DATE: [ ]	
				<b>INFORMATION OFFICE CHECKED</b> NAME: TG MOENG SIGNATURE: [Signature] DATE: 27/06/2023	PAPER SIZE A1	DRAWING DESCRIPTION. TEMPORARY ROAD TRAFFIC MANAGEMENT PLAN	PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA): NAME: [Signature] SIGNATURE: [Signature] Prof Reg No. [ ] DATE: [ ]	
				<b>DESIGN OFFICE APPROVAL</b> NAME: JK MOCHEANE SIGNATURE: [Signature] DATE: 27/06/2023	SCALE NTS	DRAWING No. JDA - TMP - 001 - V01 - C	INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY: NAME: [Signature] SIGNATURE: [Signature] DATE: [ ]	
					DATE: 27/06/2023	REVISION 1		



JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PRIVATE BAG 370 BROADFOUNTEIN 2017  
 TEL 011 259 8000  
 2023-07-17  
 SCRUTINIZED: [Signature]  
 DEVELOPMENT PLANNING & CONTROL



**GENERAL NOTES**

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**DRAINAGE NOTES**

- Access eyes to all bends and junctions and changes in gradient to waste and soil pipes.
- All rodding eyes to have marked covers at ground level.
- All waste pipes to be fully accessible.
- Waste fittings to have 75mm deep seal traps.
- Gradients to waste branches to be between 1,25 and 5.
- Gradients to soil branches to be between 2,5 and 4,5.
- All soil pipes under building to be encased in min 150mm concrete.

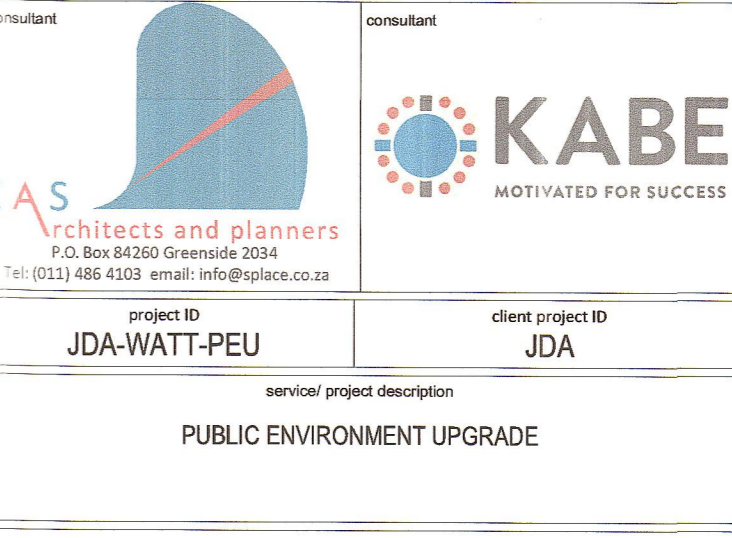
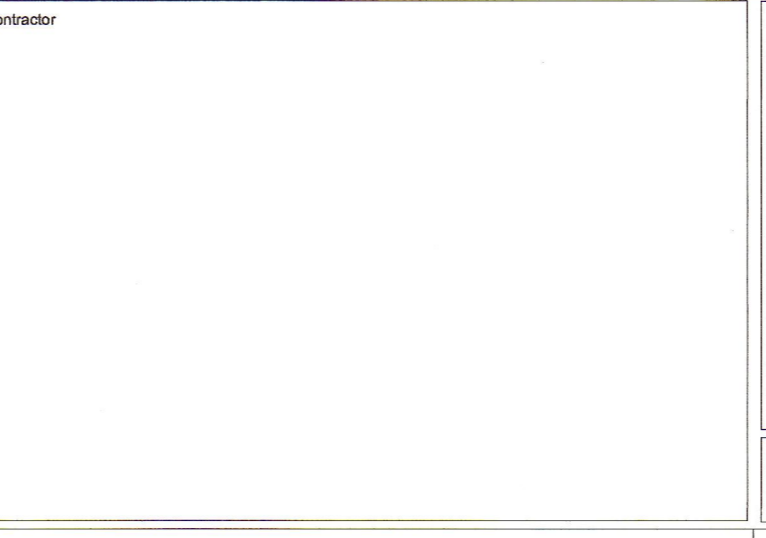
IF IN DOUBT - PLEASE ASK

RevID	Change Name	Date	RevID	Change Name	Date
C	ISSUED FOR INFORMATION				
D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-04-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-04-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STRAM AMENDED	2023-06-22			

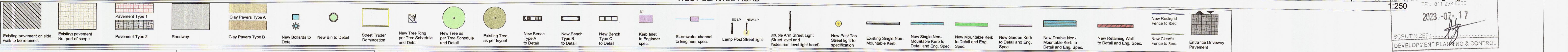
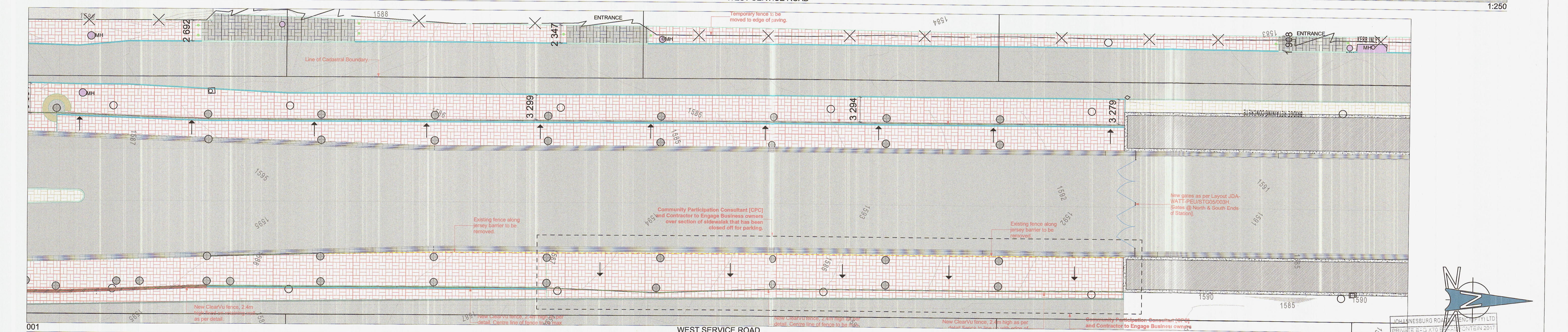
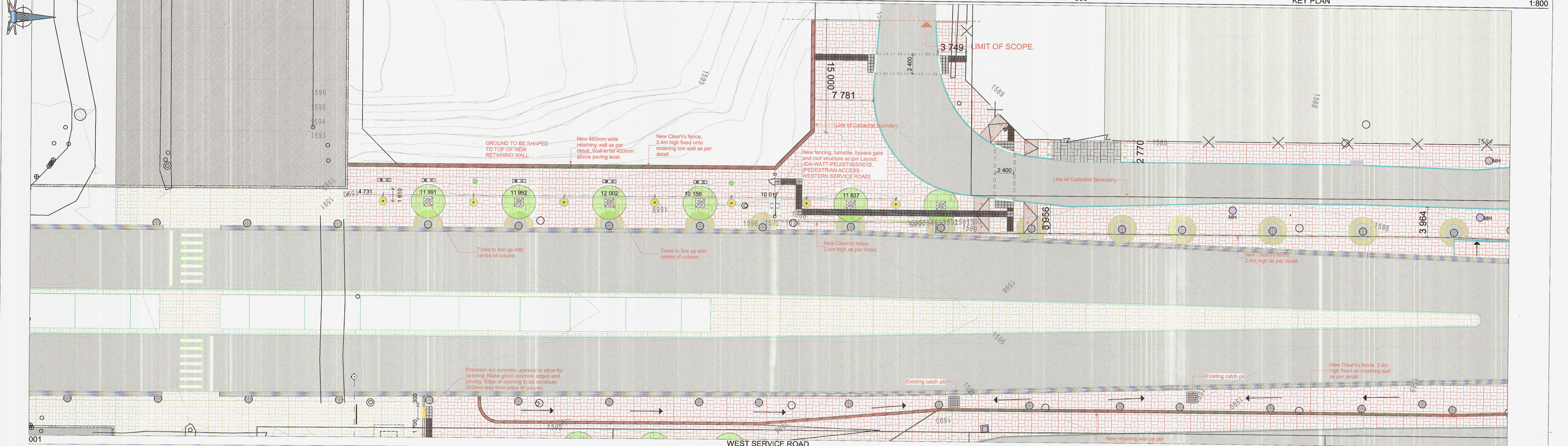
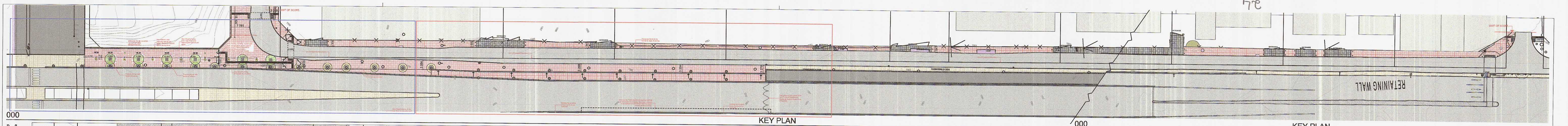
contractor

client

project status  
ISSUED FOR INFORMATION



project name			
WATT AVE PRECINCT (WYNBERG): PEU			
design	ZS	checked	ZS
scale	AS SHOWN	drawn	KP: WE
discipline			
discipline	date	responsible professional/ client	PR No.
ARCHITECT	2023/06/22	Zayy Shalh	245 Architects & Planners
CIVIL ENGINEER	2023/06/22	JK Molebane	Kabe Consulting Engineers
STRUCTURAL ENGINEER	2023/06/22	N/A	N/A
CLIENT	2023/06/22	JDA	JDA
drawing title/ name		drawing number	
PEDESTRIAN LINK TO BRT STATION - WESTERN SERVICE ROAD		JDA-WATT-PEU/STG005/001B	
format	A1	revision	F



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- All soil pipes under building to be encased in min 150mm concrete.

IF IN DOUBT - PLEASE ASK

RevID	Change Name	Date	RevID	Change Name	Date
C	ISSUED FOR INFORMATION				
D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-06-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-06-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STRAMENDED	2023-06-22			

RevID	Change Name	Date

**JDA**  
Johannesburg Development Agency

discipline  
ARCHITECTURE

**ZAS** Architects and planners  
P.O. Box 84260 Greenside 2034  
Tel: (011) 468 4100 email: info@zas.co.za

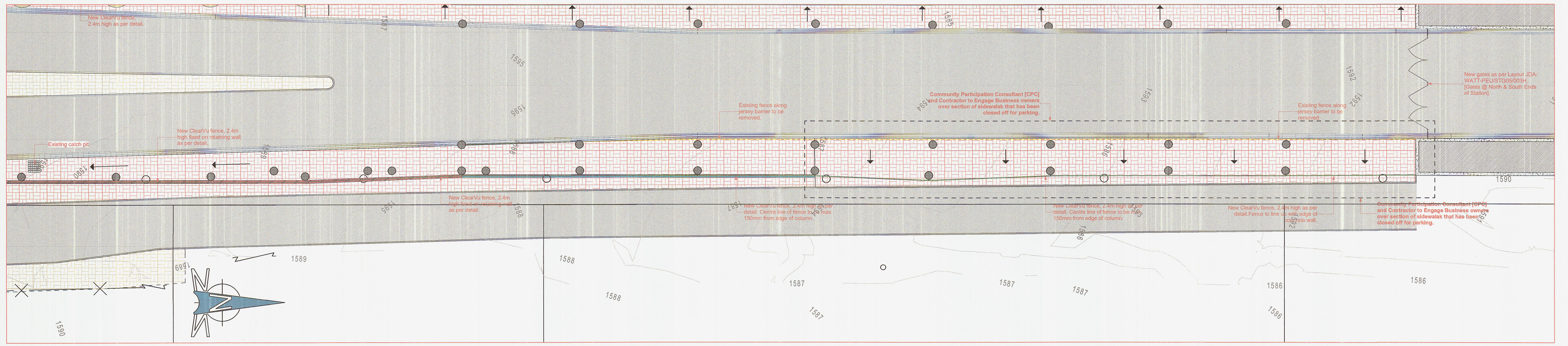
**KABE** MOTIVATED FOR SUCCESS  
CONSULTANT

design		checked		PR No.	
design	ZS	checked	ZS	PR No.	
scale	AS SHOWN	drawn	KS	PR No.	
responsible professional/ client					
discipline	date	name	organisation/co	signature	PR No.
ARCHITECT	2023/06/22	Zain Shaib	ZAS Architects & Planners	[Signature]	0548
CIVIL ENGINEER	2023/06/22	JK Mubarek	Kabe Consulting Engineers	[Signature]	0548/0005
STRUCTURAL ENGINEER	2023/06/22	NA	NA		NA
CLIENT	2023/06/22	JDA	JDA		NA
drawing title/name					
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drawing number					
JDA-WATT-PEU/STG005/001A					
revision					
F					

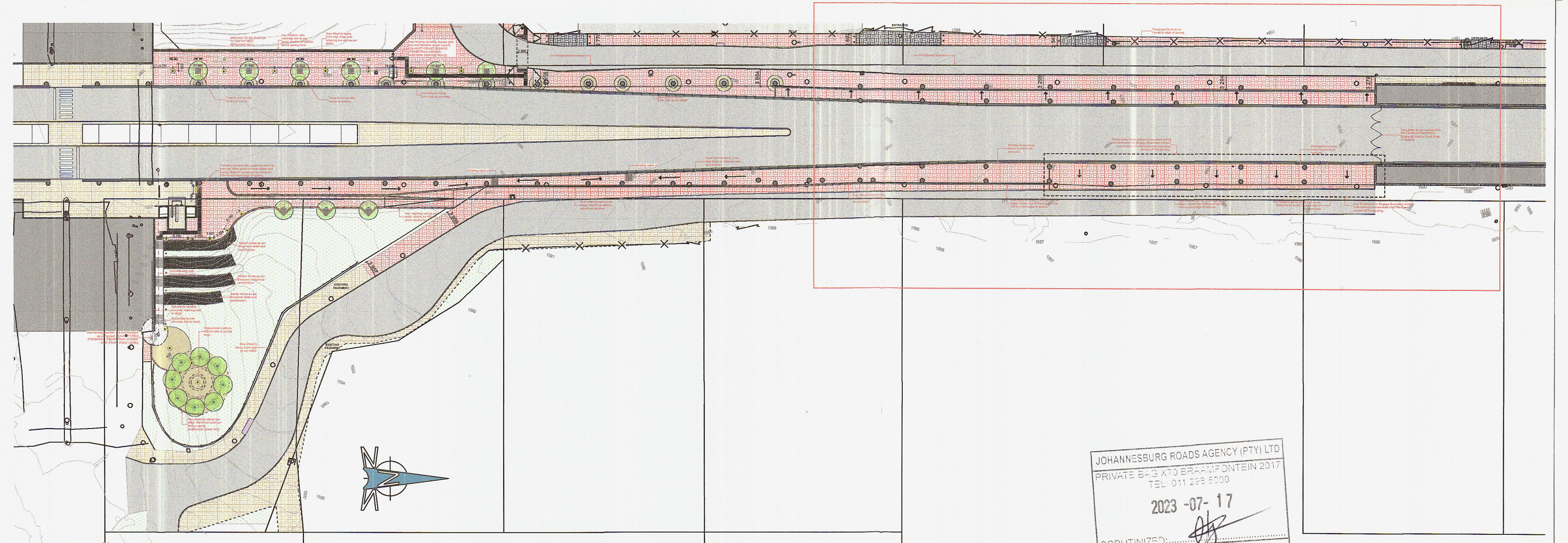
JOHANNESBURG ROAD DEVELOPMENT PT LTD  
PRIVATE BPS XT01 - 10/11/2017  
TEL: 011 258 2000

2023-07-17

SCRUTINIZED: [Signature]  
DEVELOPMENT PLANNING & CONTROL



003 RESIDUAL SPACE EAST OF MAIN LIFT - BRT STATION LEVEL 1:250



000 KEY PLAN 1:800

JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PRIVATE BAG 1175 BERTHOUDEN 2017  
 TEL: 011 228 8200  
 2023-07-17  
 SCRUTINIZED BY: [Signature]  
 DEVELOPMENT PLANNING & CONTROL

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IF IN DOUBT - PLEASE ASK

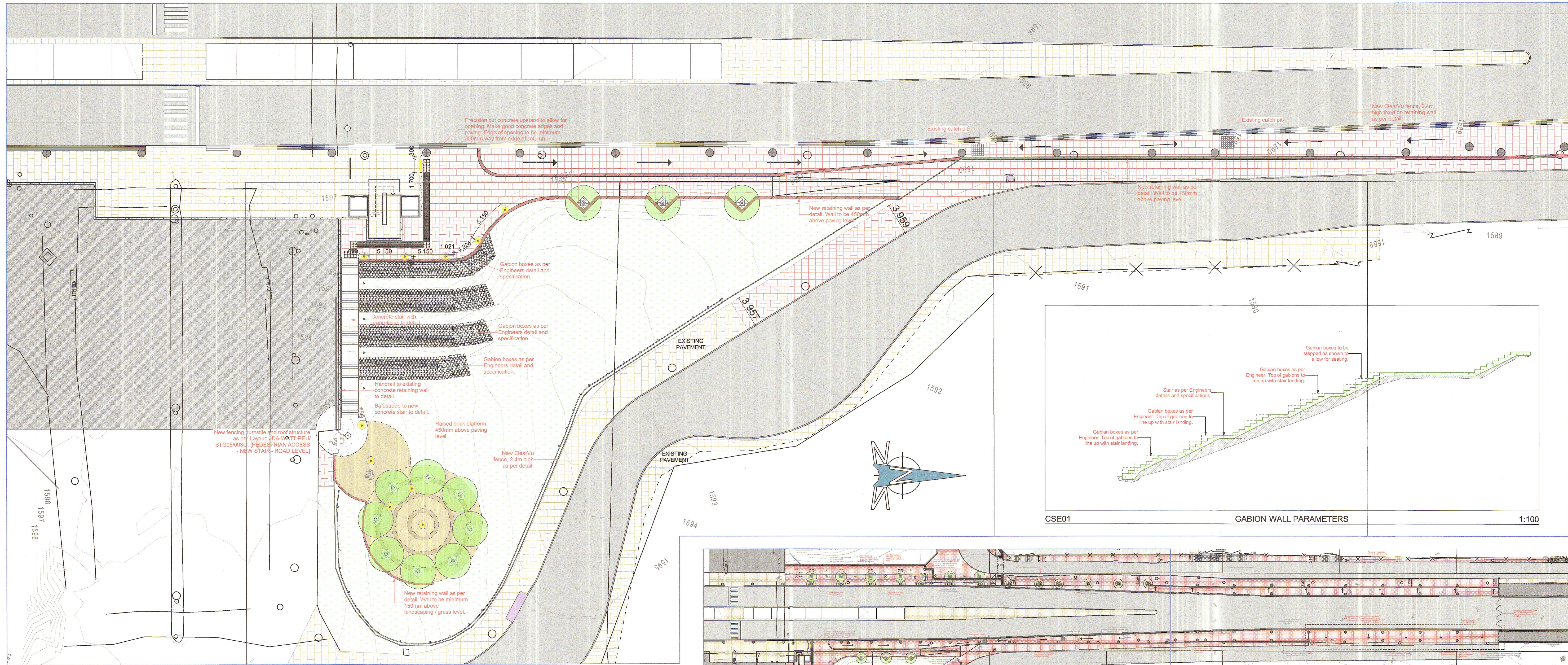
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D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-04-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-04-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STR AMENDED	2023-06-22			

contractor		client	
consultant		consultant	
project ID	JDA-WATT-PEU	client project ID	JDA
discipline	ARCHITECTURE	service/project description	PUBLIC ENVIRONMENT UPGRADE

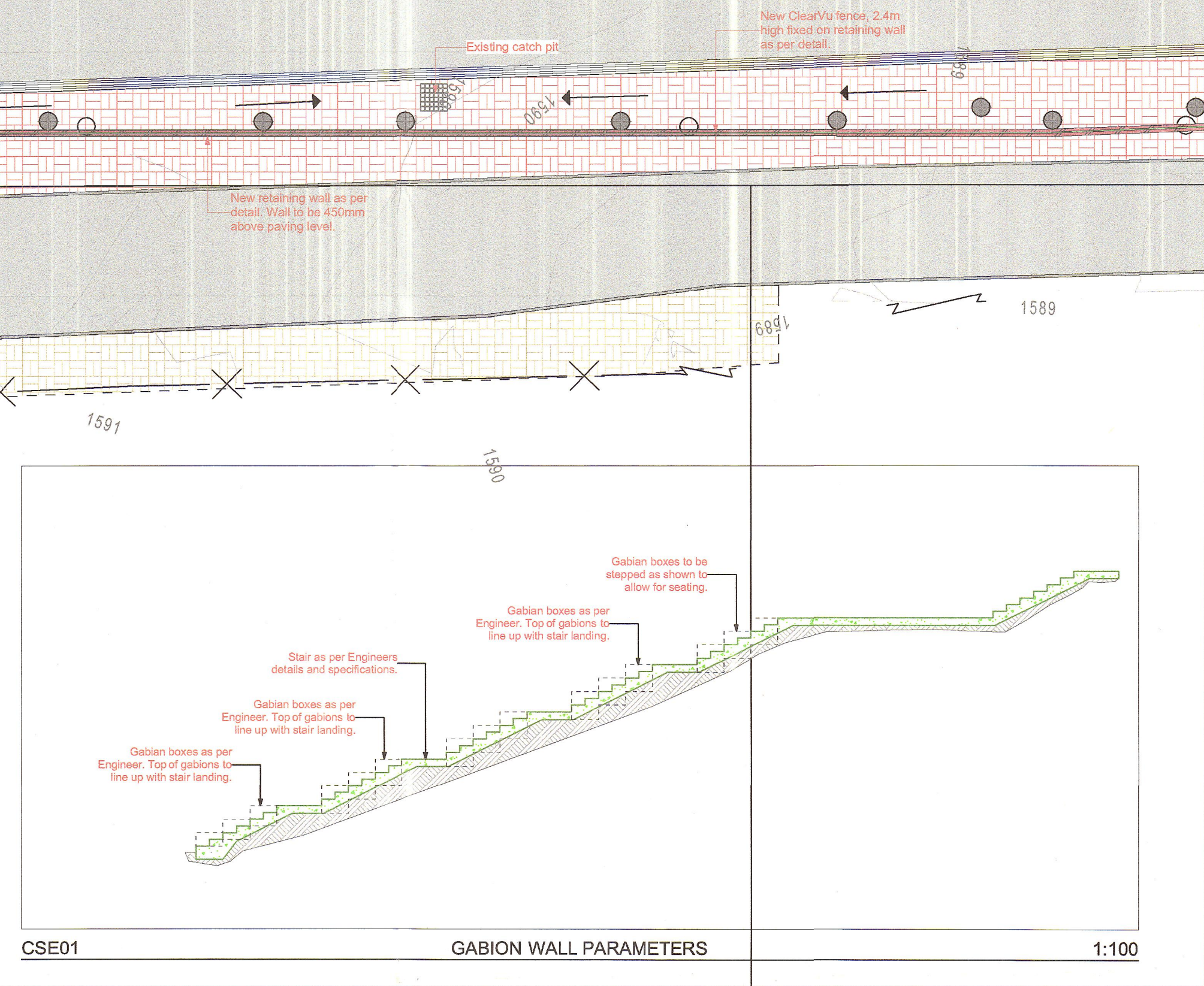
**JDA**  
Johannesburg Development Agency

**KABE**  
MOTIVATED FOR SUCCESS

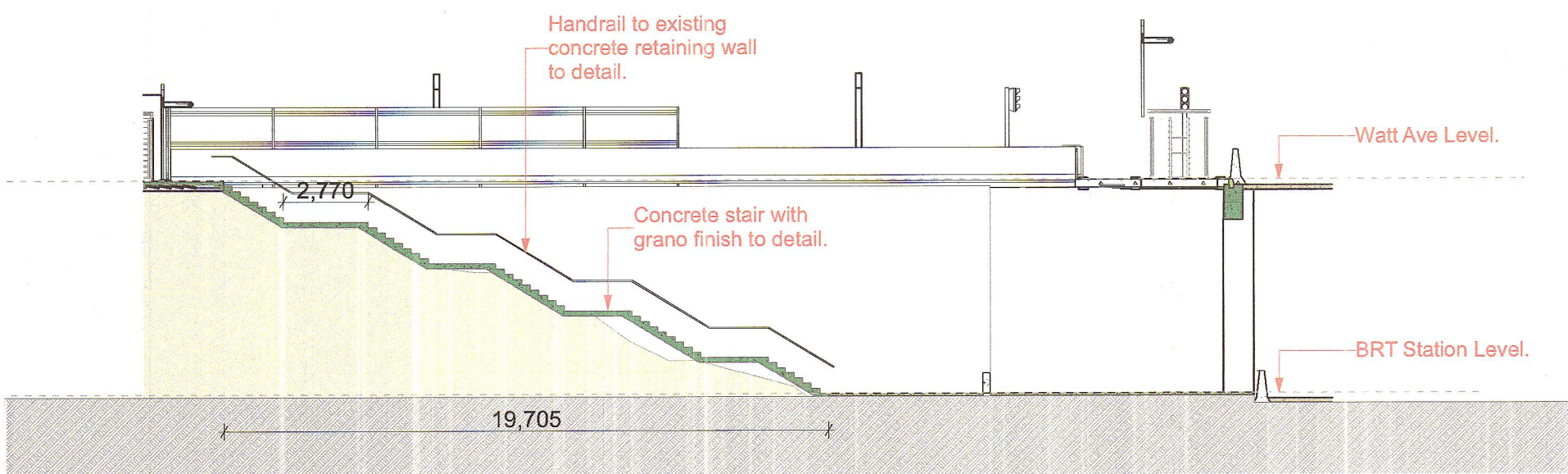
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design	ZS	checked	ZS	scale	AS SHOWN	drawn	KP-WE
discipline	date	name	organization/co	signature	PR No.		
ARCHITECT	2023/06/22	Zane Shale	ZAS Architects & Planners	[Signature]	598		
CIVIL ENGINEER	2023/06/22	AK Mokoena	KABE Consulting Engineers	[Signature]	598		
STRUCTURAL ENGINEER	2023/06/22	NA	NA		NA		
CLIENT	2023/06/22	JDA	JDA		NA		
drawing title/ name				RESIDUAL SPACE EAST OF MAIN LIFT - BRT LEVEL			
format	drawing number		revision				
A1	JDA-WATT-PEU/STG005/003B		F				



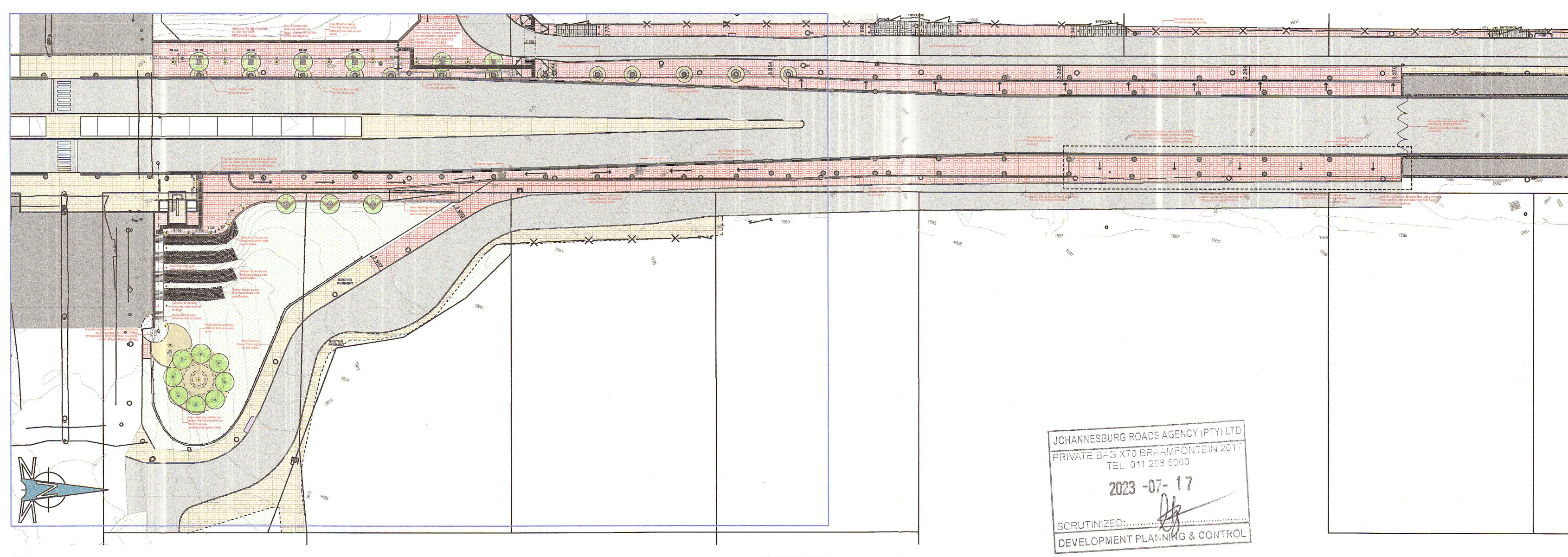
003 RESIDUAL SPACE EAST OF MAIN LIFT - BRT STATION LEVEL 1:250



CSE01 GABION WALL PARAMETERS 1:100



A SECTION A - A 1:200



000 KEY PLAN 1:800

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RevID	Change Name	Date	RevID	Change Name	Date
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D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-04-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-04-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STRAMENDED	2023-06-22			

client	contractor
JDA	

**JDA**  
Johannesburg Development Agency

ARCHITECTURE

**ZAS Architects and planners**  
P.O. Box 84260 Greenside 2034  
Tel: (021) 488-4353 email: info@zasp.co.za

client project ID: JDA

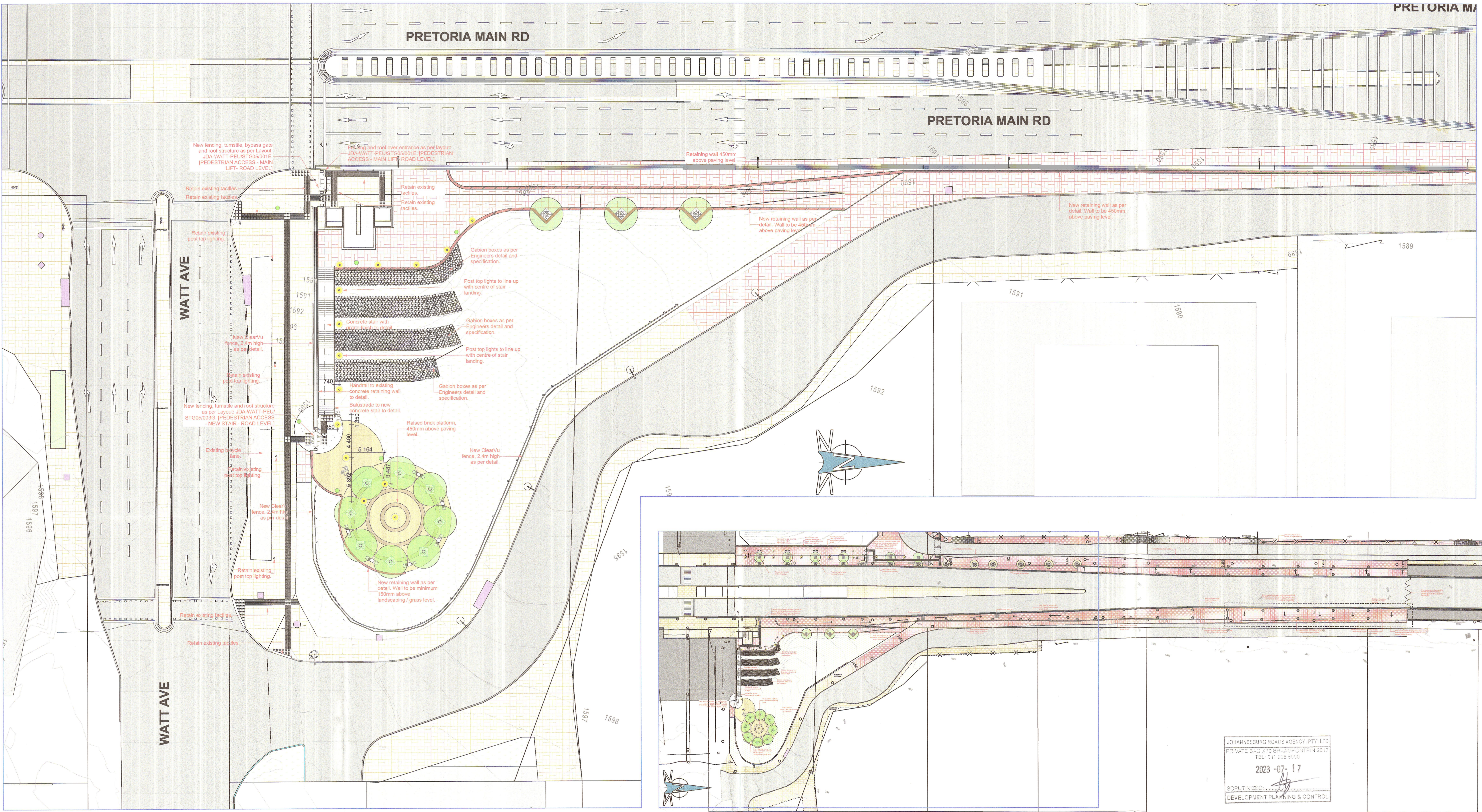
service/project description: PUBLIC ENVIRONMENT UPGRADE

**KABE**  
MOTIVATED FOR SUCCESS

client project ID: JDA

service/project description: PUBLIC ENVIRONMENT UPGRADE

project name			
WATT AVE PRECINCT (WYNBERG): PEU			
design	ZS	checked	ZS
scale	AS SHOWN	drawn	KP, WE
responsible professional/client			
discipline	date	name	signature
ARCHITECT	2023/06/22	Zeyn Shabb	
CIVIL ENGINEER	2023/06/22	JK Mkhize	
STRUCTURAL ENGINEER	2023/06/22	N/A	N/A
CLIENT	2023/06/22	JDA	JDA
drawing title/name			
RESIDUAL SPACE EAST OF MAIN LIFT - BRT LEVEL			
format	A1	drawing number	JDA-WATT-PEU/STG005/003A
revision			F



003 000 1:250 1:800

JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PRIVATE B-3 X70 BR-147 FORTHEIN 2017  
 TEL: 011-486-5000  
 2023-07-17  
 SCRUTINIZED: [Signature]  
 DEVELOPMENT PLANNING & CONTROL

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FILE PATH: BIMcloud: SPLACE26 - BIMcloud Basic for Archicad 26\JDA-WATT-PEU\WATT-PEU-STG3 FILE NAME: WATT-PEU-STG3, PUBLISHED: Thursday, 22 June 2023

**DRAINAGE NOTES**

- Access eyes to all bends and junctions and changes in gradient to waste and soil pipes.
- All rodding eyes to have marked covers at ground level.
- All waste pipes to be fully accessible.
- Waste fittings to have 75mm deep seal traps.
- Gradients to soil branches to be between 1:25 and 1:5.
- Gradients to soil branches to be between 1:25 and 1:45.
- All soil pipes under building to be encased in min 150mm concrete.

IF IN DOUBT - PLEASE ASK

RevID	Change Name	Date	RevID	Change Name	Date
C	ISSUED FOR INFORMATION				
D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-04-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-04-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STRAMENDED	2023-06-22			

contractor

client

project status: ISSUED FOR INFORMATION

project name: WATT AVE PRECINCT (WYNBERG): PEU

design: ZS checked: ZS

scale: AS SHOWN drawn: KP, WE

discipline: ARCHITECT

date: 2023/06/22 name: Zign Shalh name: ZS Richards & Partners

discipline: CIVIL ENGINEER date: 2023/06/22 name: JK Mubane name: Kabe Consulting Engineers

discipline: STRUCTURAL ENGINEER date: 2023/06/22 name: N/A name: N/A

CLIENT: 2023/06/22 JDA JDA

drawing title / name: RESIDUAL SPACE EAST OF MAIN LIFT - ROAD LEVEL

format: A1 drawing number: JDA-WATT-PEU/STG005/003C revision: F

project ID: JDA

client project ID: JDA

service/project description: PUBLIC ENVIRONMENT UPGRADE

discipline: ARCHITECTURE

Logo: JDA Johannesburg Development Agency

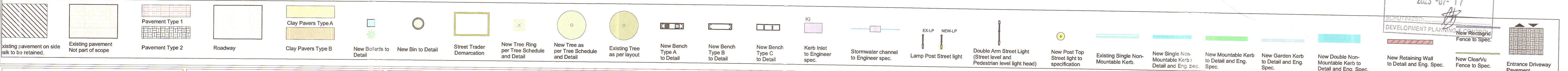
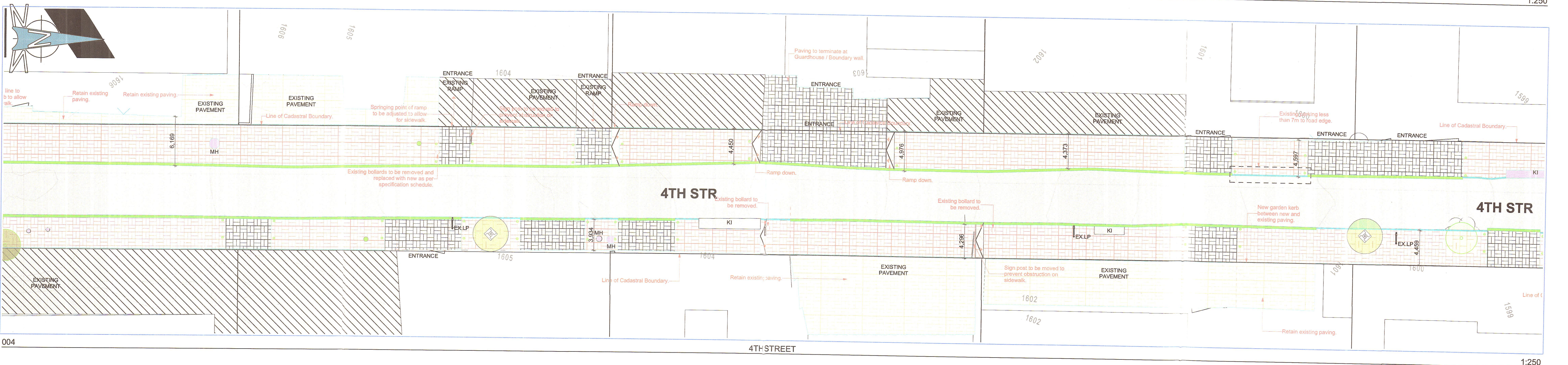
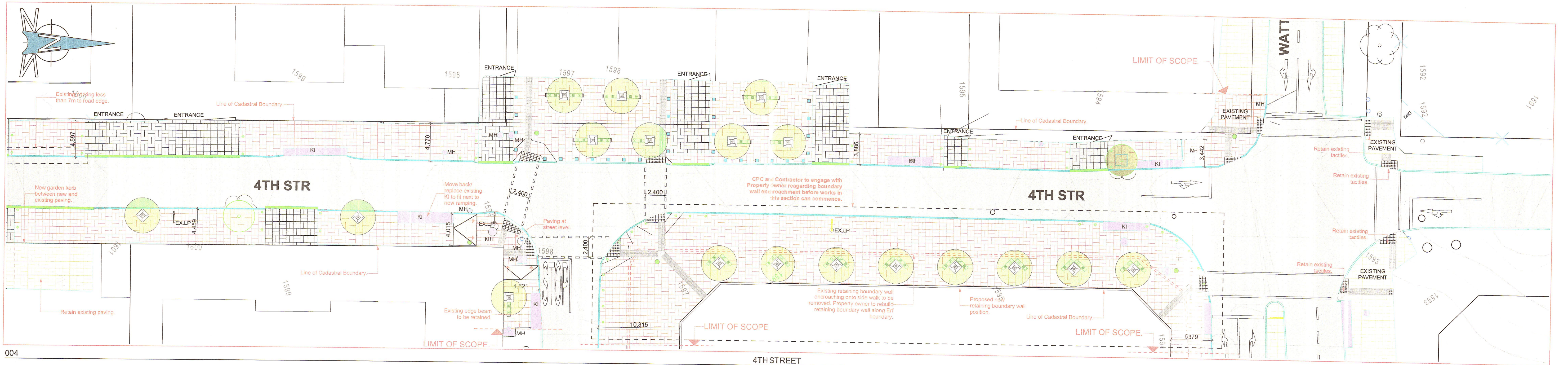
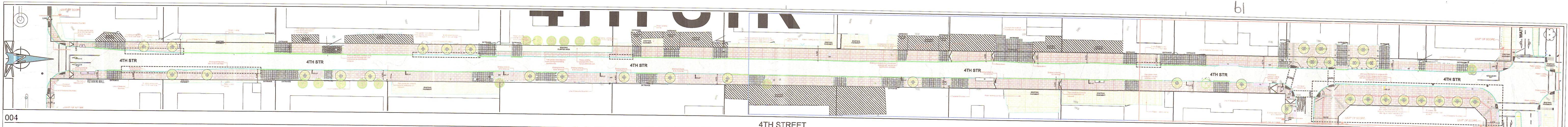
Logo: KABE MOTIVATED FOR SUCCESS

Logo: ZAS architects and planners

P.O. Box 84260 Greenside 2034  
 Tel: (021) 486-4100 email: info@zasp.co.za

Logo: JDA WATT-PEU

Logo: Kabe Consulting Engineers



**GENERAL NOTES**

- All work to be done in accordance with the National Building Regulation and local bylaws.
- This drawing is not scaled. Figured dimensions to be used. All dimensions are in millimetres unless otherwise stated.
- This drawing must be read in conjunction with all the relevant drawings and specifications.
- Any discrepancies on the drawings are to be brought to the architect's attention by the contractor before putting work in hand.
- All dimensions and levels must be checked on site by the contractor before putting work in hand.
- The contractor must obtain the Architect's written confirmation of any instruction which involves a variation to the contract before putting work in hand.
- All mechanical and electrical work is to be done in accordance with the National Building Regulations.
- The contractor is to locate and identify any/all existing services and to protect these from damage whilst on site through out the construction period.
- All work and materials is to comply to relevant S.A.N.S. codes where applicable.

FILE PATH: BIMcloud: SPLACE28 - BIMcloud Basic for Archicad 20/JDA-WATT-PEU/WATT-PEU-STG3 FILE NAME: WATT-PEU-STG3; PUBLISHED: Thursday, 22 June 2023

**DRAINAGE NOTES**

- Access eyes to all bends and junctions and changes in gradient to waste and soil pipes.
- All rodding eyes to have marked covers at ground level.
- All waste pipes to be fully accessible.
- Waste fillings to have 75mm deep seal traps.
- Gradients to waste branches to be between 1:25 and 5.
- Gradients to soil branches to be between 2:5 and 45.
- All soil pipes under building to be encased in min 150mm concrete.

**IF IN DOUBT - PLEASE ASK**

RevID	Change Name	Date	RevID	Change Name	Date
C	ISSUED FOR INFORMATION				
D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-04-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-04-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STR AMENDED	2023-06-22			

project status: ISSUED FOR INFORMATION

client	contractor	consultant
JDA		ZAS Architects and planners

Johannesburg Development Agency

ZAS Architects and planners

project ID: JDA-WATT-PEU  
discipline: ARCHITECTURE

KABE MOTIVATED FOR SUCCESS

project name: WATT AVE PRECINCT (WYBERG): PEU

design	scale	date	checked	drawn	scale	date
ZS	AS SHOWN				ZS	

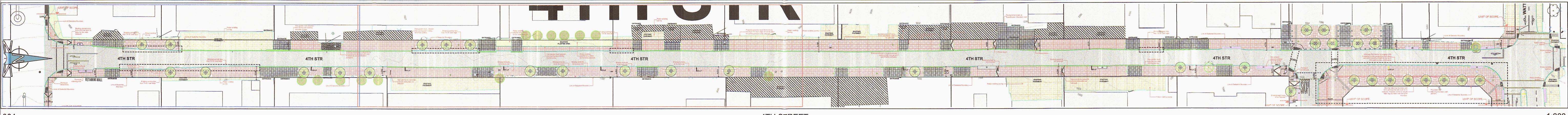
responsible professional/client

discipline	date	name	organisation/co	signature	PR No.
ARCHITECT	2023/06/22	Zayn Shahe	ZAS Architects & Planners	[Signature]	2348
CIVIL ENGINEER	2023/06/22	J. Volosina	Kabe Consulting Engineers	[Signature]	20147016
ENGINEER	2023/06/22	NA	NA		NA
CLIENT	2023/06/22	JDA	JDA		NA

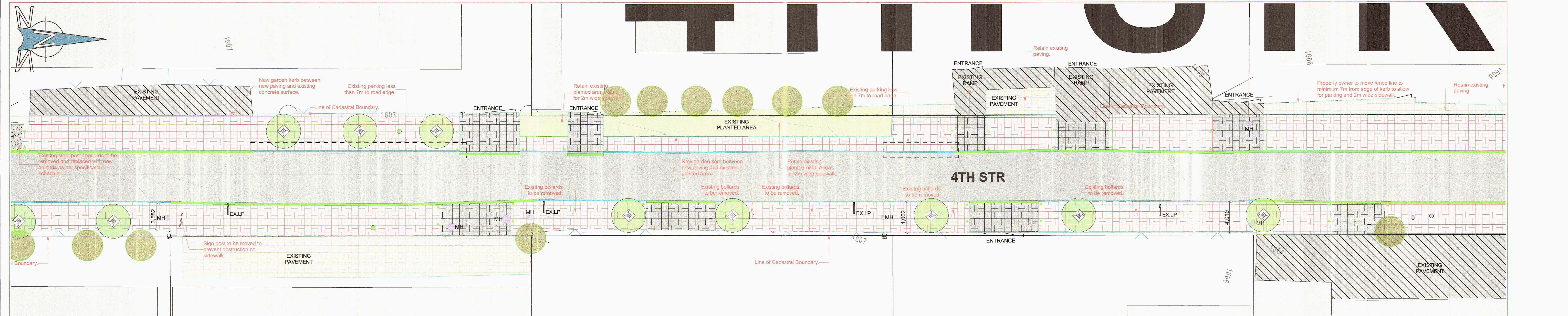
drawing title/name: 4TH STREET

format	drawing number	revision
A1	JDA-WATT-PEU/STG005/005A	F

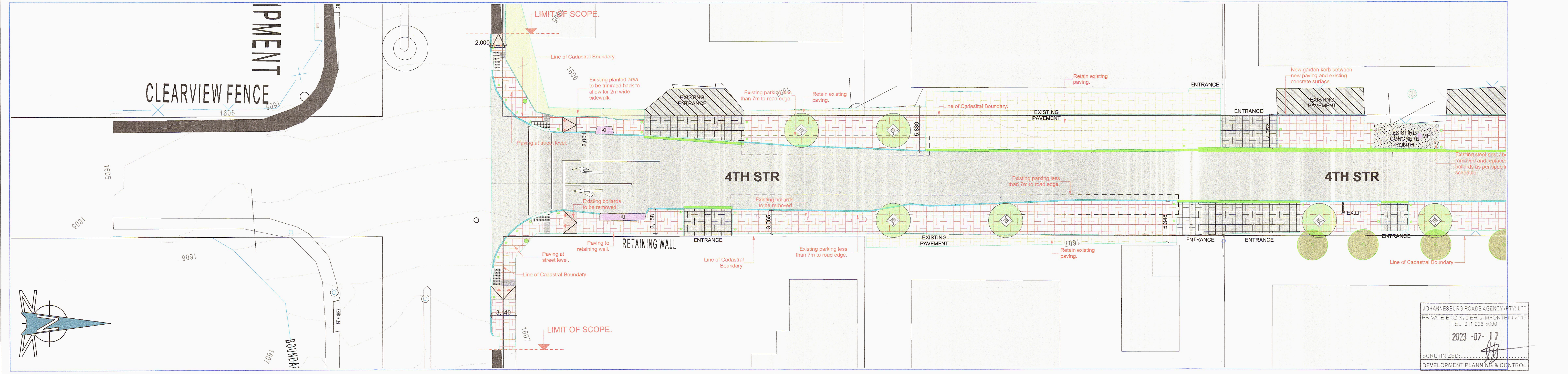




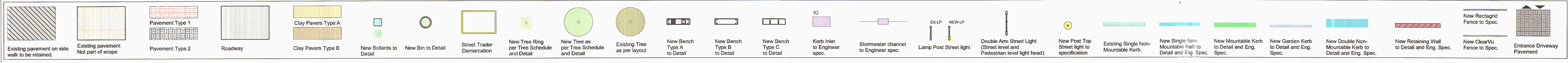
004 4TH STREET 1:800



004 4TH STREET 1:250



004 4TH STREET 1:250



**GENERAL NOTES**

- All work to be done in accordance with the National Building Regulation and local bylaws.
- This drawing is not to be scaled. Figured dimensions to be used. All dimensions are in millimetres unless otherwise stated.
- This drawing must be read in conjunction with all the relevant drawings and specifications.
- Any discrepancies on the drawings are to be brought to the architect's attention by the contractor before putting work in hand.
- All dimensions and levels must be checked on site by the contractor before putting work in hand.
- The contractor must obtain the Architect's written confirmation of any instruction which involve a variation to the contract before putting work in hand.
- All mechanical and electrical work is to be done in accordance with the National Building Regulations.
- The contractor is to locate and identify any/all existing services and to protect these from damage whilst on site through out the construction period.
- All work and materials is to comply to relevant S.A.N.S. codes where applicable.

**DRAINAGE NOTES**

- Access eyes to all bends and junctions and changes in gradient to waste and soil pipes.
- All roofing eyes to have marked covers at ground level.
- All waste pipes to be fully accessible.
- Waste fittings to have 75mm deep seal traps.
- Gradients to waste branches to be between 1:25 and 5.
- Gradients to soil trenches to be between 2:5 and 4:5.
- All soil pipes under building to be encased in min 150mm concrete.

IF IN DOUBT - PLEASE ASK

RevID	Change Name	Date	RevID	Change Name	Date
C	ISSUED FOR INFORMATION				
D	UNIVERSAL ACCESS TO BRT ACCESS POINTS ADDED	2023-04-14			
E	UNIVERSAL ACCESS TO BRT ACCESS AMENDED	2023-04-17			
F	UNIVERSAL ACCESS TO ALONG 4TH STR AMENDED	2023-06-22			

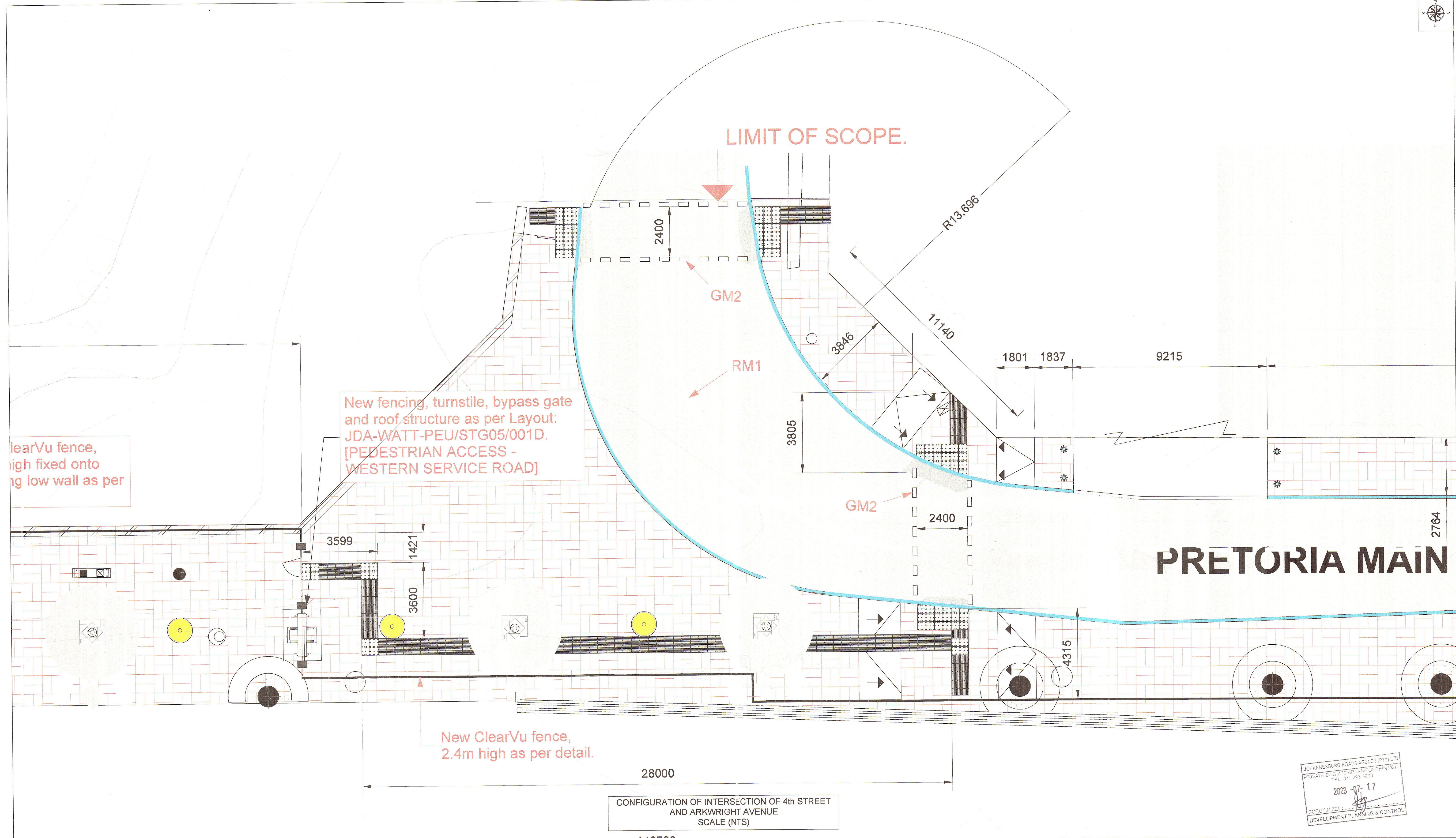
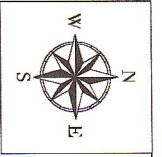
contractor	client

JDA  
Johannesburg Development Agency

KABE  
MOTIVATED FOR SUCCESS

project name					
WATT AVE PRECINCT (WYNBERG): PEU					
design	ZS	checked	ZS		
scale	AS SHOWN	drawn	KP, WE		
responsible professional/ client					
discipline	date	name	organisation/co	signature	PR No.
ARCHITECT	2023/06/22	Zayn Shaikh	ZAS Architects & Planners		5346
CIVIL ENGINEER	2023/06/22	J.K. Madhava	Kabe Consulting Engineers		NA
STRUCTURAL ENGINEER	2023/06/22	NA	NA		NA
CLIENT	2023/06/22	JDA	JDA		NA
drawing title/ name					
4TH STREET					
format					
A1	JDA-WATT-PEU/STG005/005B	revision	F		





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**CLIENT'S DETAILS**

Johannesburg Development Agency  
3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2000  
JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	26/06/2023	JKM	ORIGINAL	

**NOTES:**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
- A FULL SET OF MATERIAL TESTS (COMPACTION, CBR & UCS), REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER.
- INTERSECTION SERVICES TO BE EXPOSED. POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL MEASUREMENTS ARE IN MILLIMETERS (MM).

**CONSULTANT'S DETAIL**

**KABE CONSULTING ENGINEERS**  
218 DI VAN DER MERWE DRIVE  
MONTANA PARK  
0182  
Tel: 087 809 0982  
Fax: 086 516 4728  
e-mail: info@kabe.co.za

**DESIGNED**  
NAME: JK VOS  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**DRAWN**  
NAME: AMH RICHARDS  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**CHECKED**  
NAME: JK VOS  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**INFORMATION OFFICE CHECKED**  
NAME: JK VOS  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**DESIGN OFFICE APPROVAL**  
NAME: JK VOS  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**CONTRACT No.**  
JDA 10.198.A.2022

**PROJECT No.**  
-

**SHEET No.**  
05 of 05

**PAPER SIZE**  
A1

**SCALE**  
NTS

**DATE:**  
27/06/2023

**LOCATION OF PROJECT**  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION:**  
CONFIGURATION OF INTERSECTION AT PRETORIA MAIN ROAD (PEDESTRIAN LINK TO BRT)

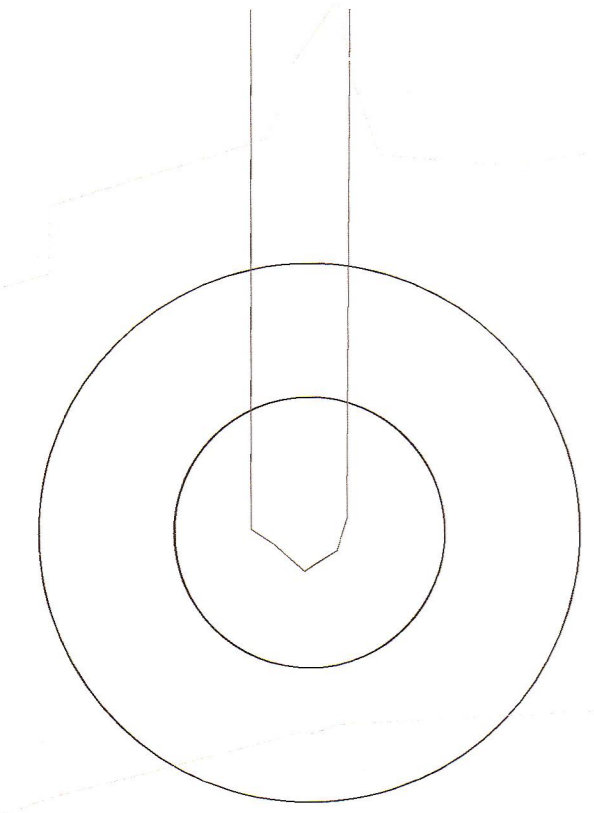
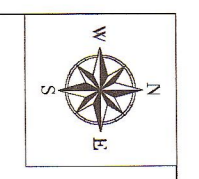
**DRAWING No.**  
JDA - LP - 004 - V00 - C

**PROJECT STATUS**

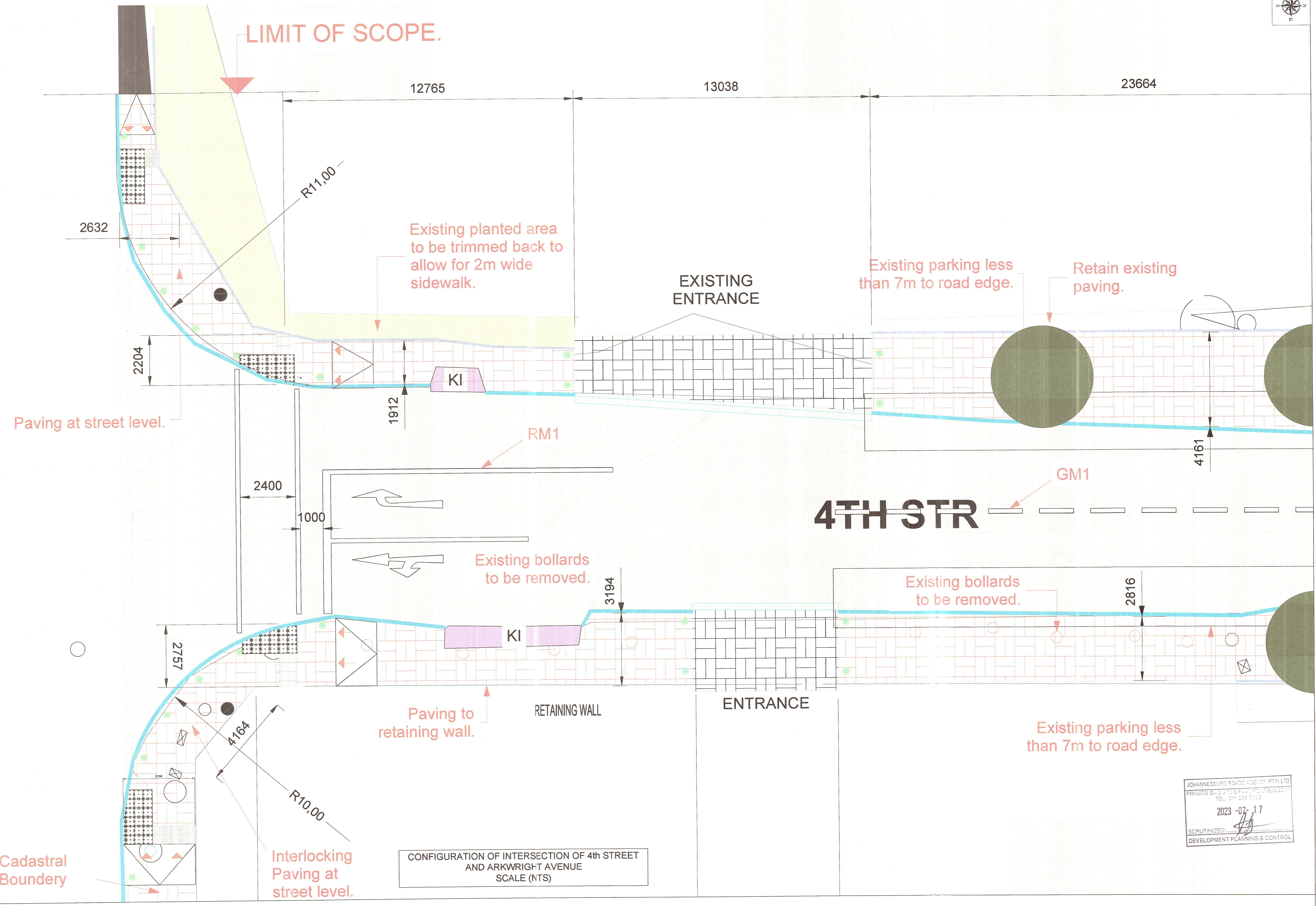
INCEPTION  DESIGN DEVELOPMENT  TENDER DRAWING  APPROVED CONSTRUCTION DRAWINGS  AS BUILT DRAWING

**PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Prof Reg No. \_\_\_\_\_ DATE: \_\_\_\_\_

**INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_



Arkwright Avenue



CONFIGURATION OF INTERSECTION OF 4th STREET AND ARKWRIGHT AVENUE SCALE (NTS)

JOHANNESBURG ROAD AGENCY PTY LTD  
PRIVATE ENGINEERING CONSULTANTS  
2023-07-17  
SCRUTINIZED: [Signature]  
DEVELOPMENT PLANNING & CONTROL

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CLIENT'S DETAILS

Johannesburg Development Agency  
3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2000  
JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	26/06/2023	JKM	ORIGINAL	

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
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- ALL MEASUREMENTS ARE IN MILLIMETERS (mm)

CONSULTANT'S DETAIL

KABE CONSULTING ENGINEERS  
218 DE VAN DER MERVE DRIVE  
MONTANA PARK  
0182  
Tel: 087 809 0982  
Fax: 086 516 4728  
e-mail: info@kabe.co.za

DESIGNED: NAME: J.K. JOHANNES, SIGNATURE: [Signature], DATE: 27/06/2023

DRAWN: NAME: JIM HODDGE, SIGNATURE: [Signature], DATE: 27/06/2023

CHECKED: NAME: JIM HODDGE, SIGNATURE: [Signature], DATE: 27/06/2023

INFORMATION OFFICE CHECKED: NAME: JIM HODDGE, SIGNATURE: [Signature], DATE: 27/06/2023

DESIGN OFFICE APPROVAL: NAME: JIM HODDGE, SIGNATURE: [Signature], DATE: 27/06/2023

CONTRACT No. JDA 10 198 A 2022  
PROJECT No. [Blank]  
SHEET No. 05 of 05  
PAPER SIZE A1  
SCALE NTS  
DATE: 27/06/2023

LOCATION OF PROJECT  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

DESCRIPTION OF PROJECT:  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

DRAWING DESCRIPTION:  
CONFIGURATION OF INTERSECTION OF 4TH STREET & ARKWRIGHT AVENUE

DRAWING No.  
JDA-LP-003-V01-C

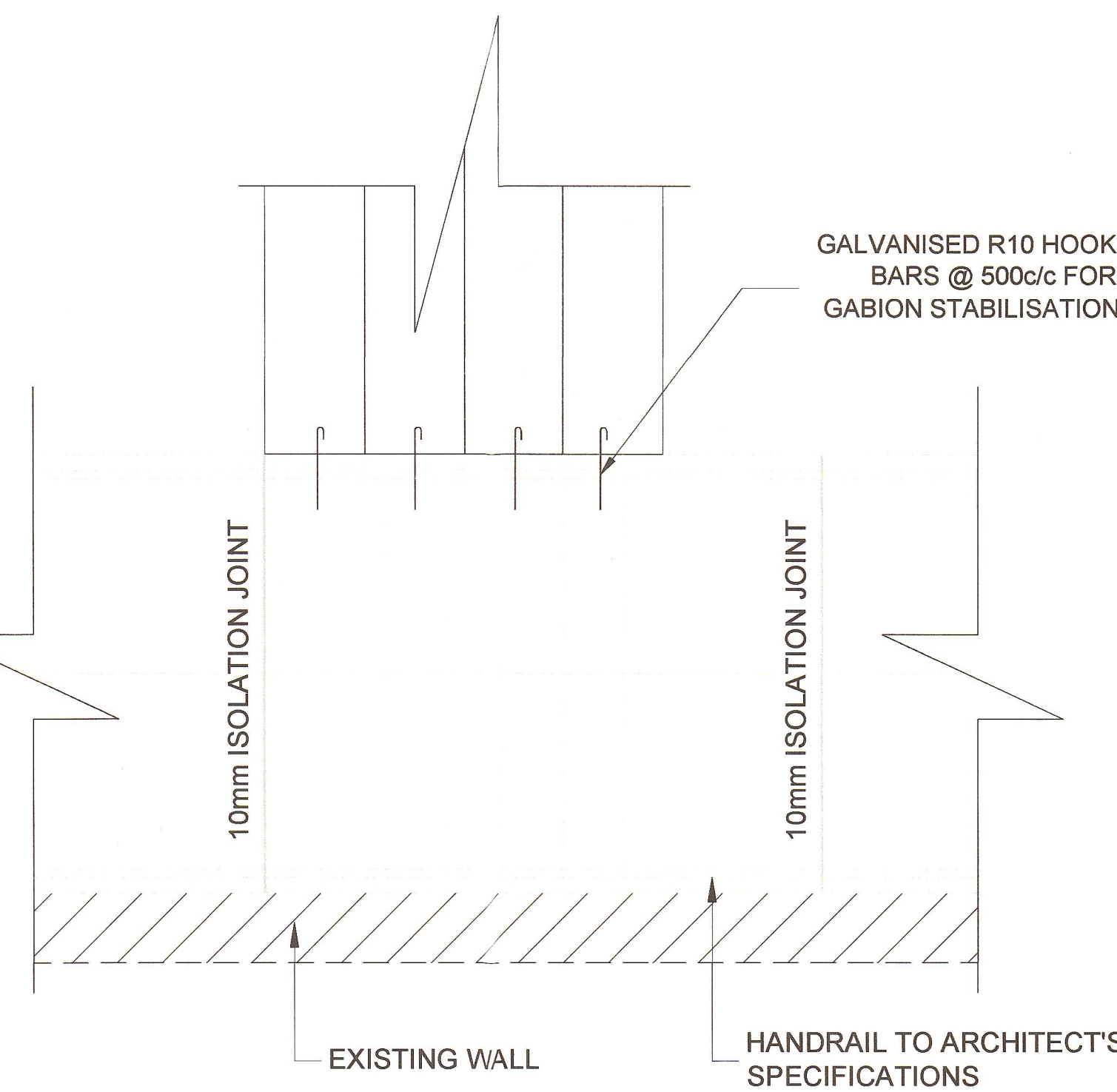
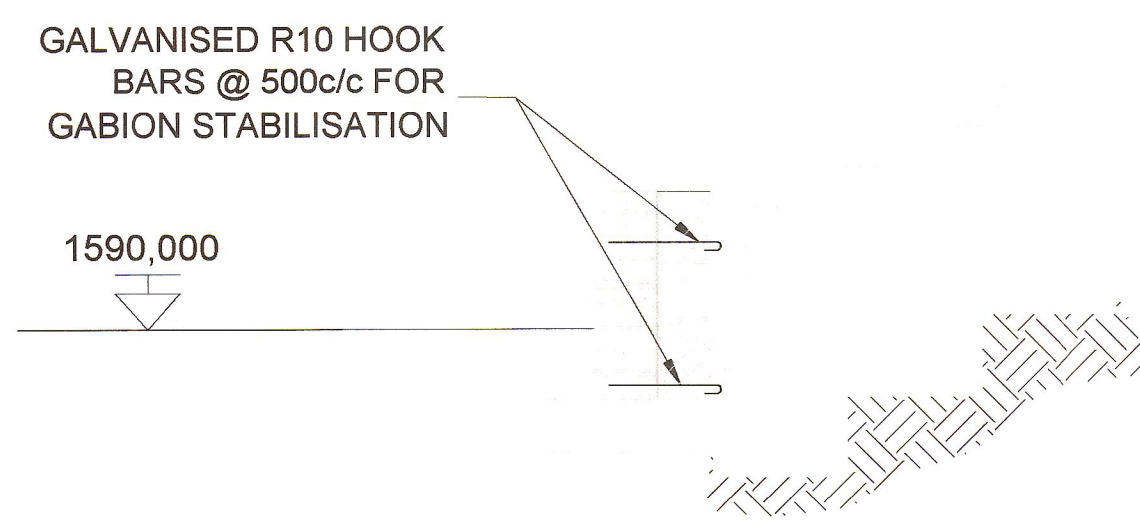
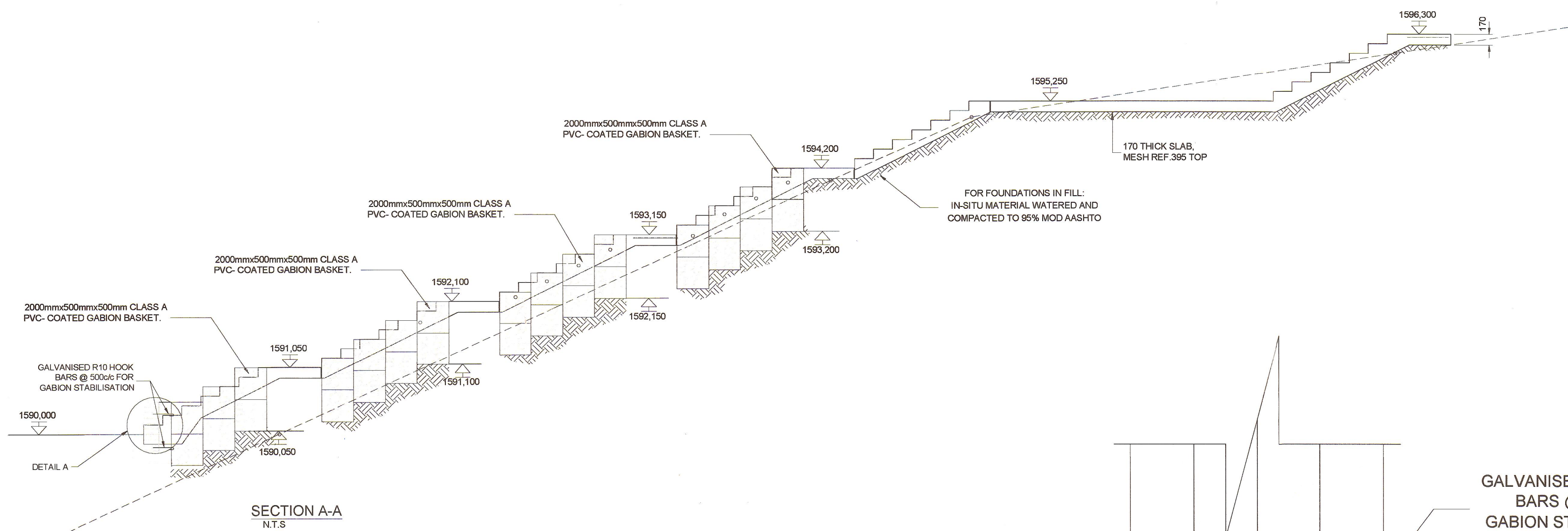
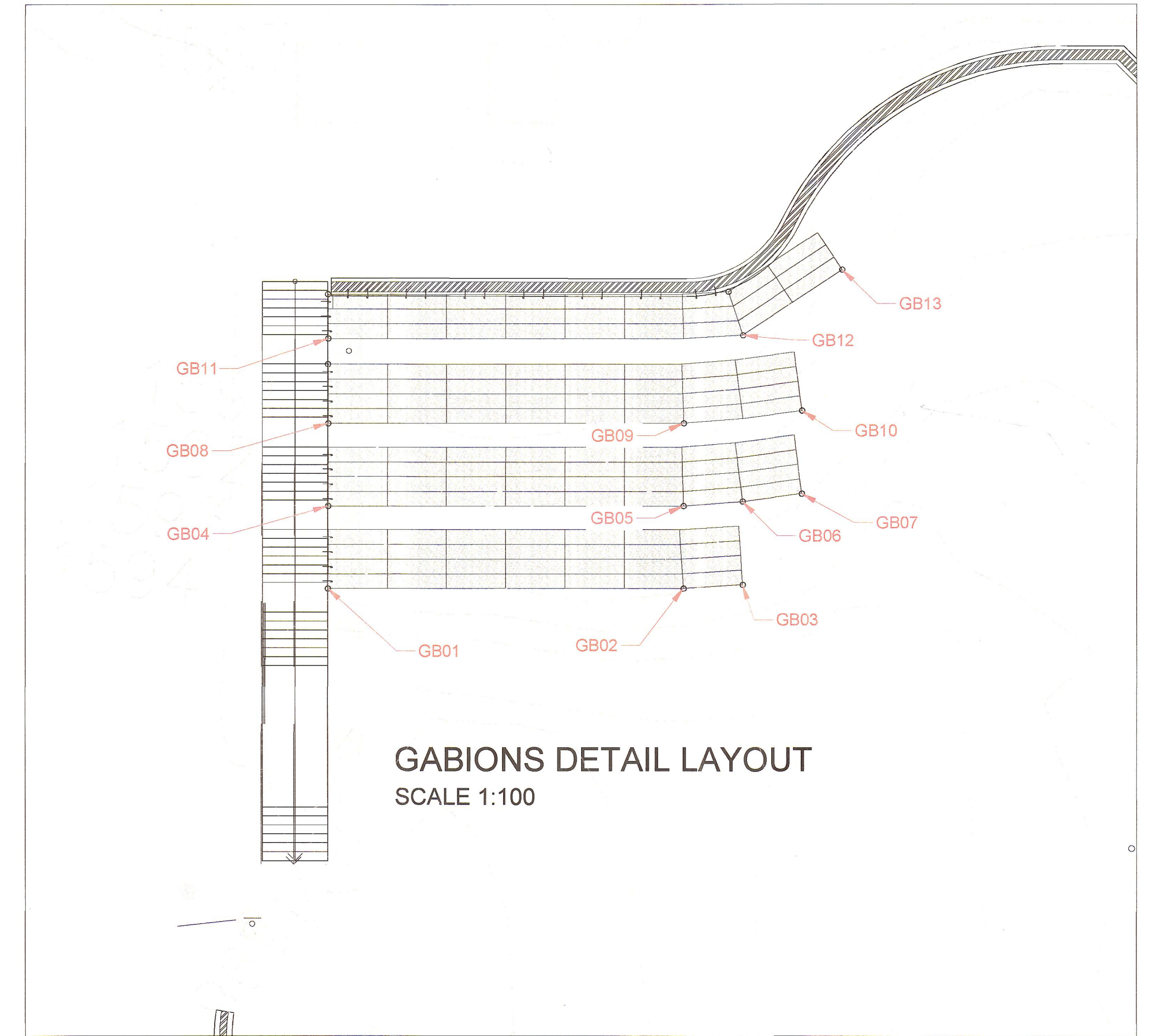
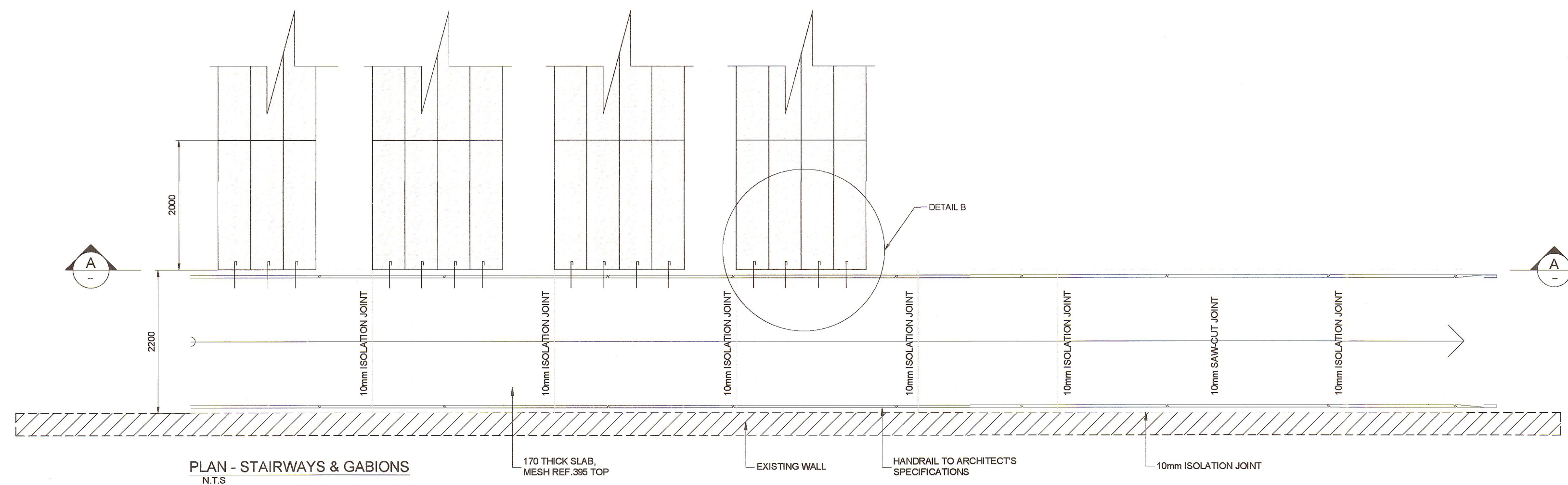
PROJECT STATUS

INCEPTION  DESIGN  TENDER DRAWING  APPROVED CONSTRUCTION DRAWING  AS BUILT DRAWING

PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):  
NAME: [Blank] SIGNATURE: [Blank]  
Prof Reg No.: [Blank] DATE: [Blank]

INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:  
NAME: [Blank] SIGNATURE: [Blank]  
DATE: [Blank]





GABION'S Coordinate Location		
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GB02	91496.304	2889323.683
GB03	91496.299	2889321.683
GB04	91499.907	2889335.467
GB05	91499.098	2889323.494
GB06	91499.121	2889321.494
GB07	91499.247	2889319.498
GB08	91502.7	2889335.278
GB09	91501.892	2889323.306
GB10	91502.041	2889319.309
GB11	91505.567	2889335.084
GB12	91504.733	2889321.112
GB13	91506.712	2889317.634

CLIENT'S DETAILS



REVISIONS

NR	DATE	APPROVED	DESCRIPTION	PAR
0	19/05/2023	JKM	ORIGINAL	

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
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- ALL MEASUREMENTS ARE IN MILLIMETERS (mm).
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING NO. JDA-PEU8T00040018.

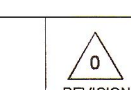
CONSULTANT'S DETAIL



KABE CONSULTING ENGINEERS  
218 Dr VAN DER MERWE DRIVE  
MONTANA PARK  
0182  
Tel: 087 809 0992  
Fax: 086 516 4728  
e-mail: info@kabe.co.za

DESIGNED	PROJECT No.
NAME: JK MCDONALD SIGNATURE: [Signature] DATE: 27/06/2023	JDA.10.196.A.2022
DRAWN	SHEET No.
NAME: AIN NIDOMA SIGNATURE: [Signature] DATE: 27/06/2023	
CHECKED	PAPER SIZE
NAME: JK MCDONALD SIGNATURE: [Signature] DATE: 27/06/2023	A1
INFORMATION OFFICE CHECKED	SCALE
NAME: TG MOENG SIGNATURE: [Signature] DATE: 27/06/2023	
DESIGN OFFICE APPROVAL	DATE:
NAME: JK MCDONALD SIGNATURE: [Signature] DATE: 27/06/2023	19/05/2023

CONTRACT No.	LOCATION OF PROJECT
JDA.10.196.A.2022	WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.
PROJECT No.	DESCRIPTION OF PROJECT:
	WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES
SHEET No.	DRAWING DESCRIPTION:
	GABION'S BOX DETAILS
PAPER SIZE	DRAWING No.
A1	JDA-GBD-001-V00-C
SCALE	DATE:
	19/05/2023

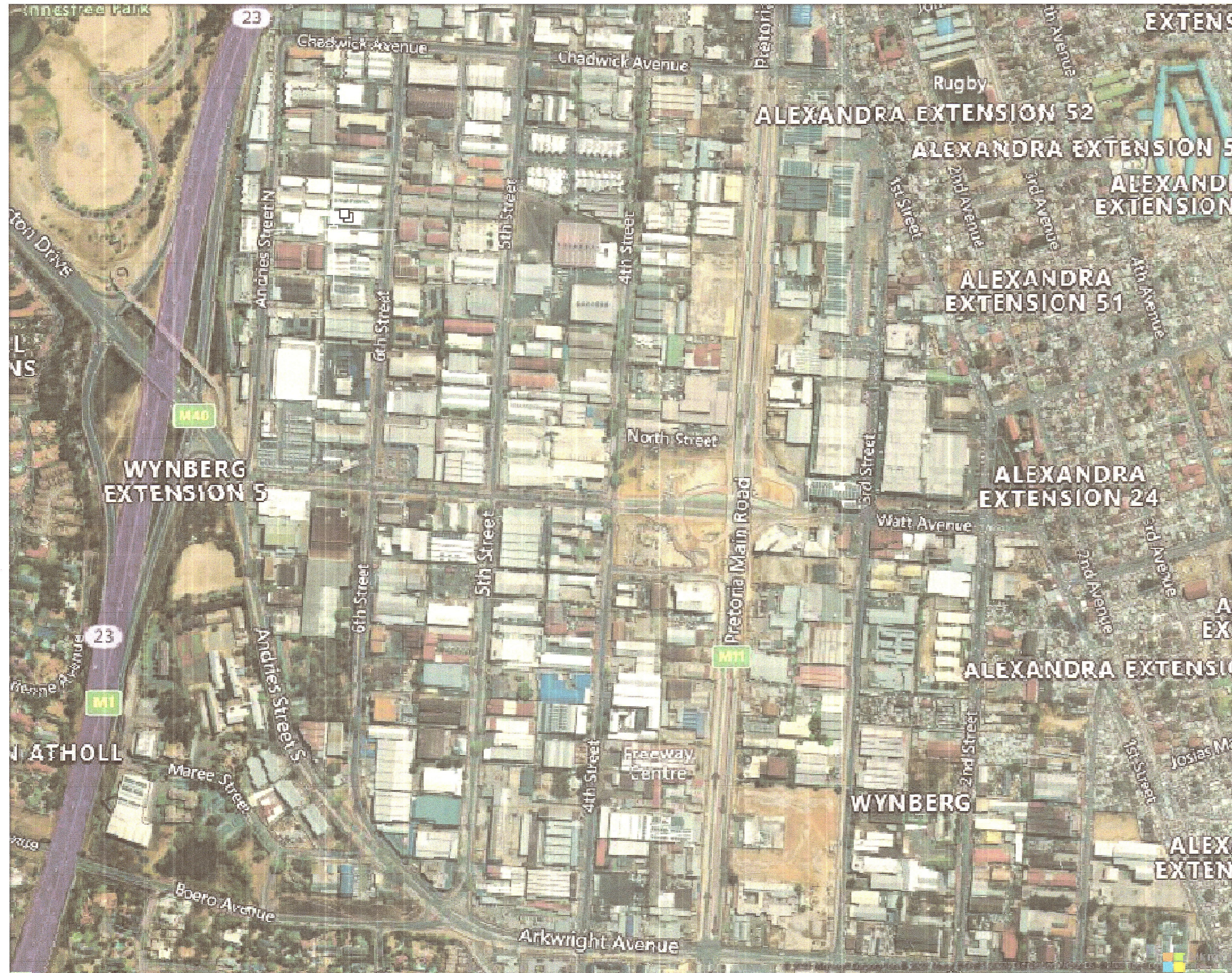


PROJECT STATUS

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PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):				
NAME: _____		SIGNATURE: _____		
Prof Reg No: _____		DATE: _____		
INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:				
NAME: _____		SIGNATURE: _____		
DATE: _____		DATE: _____		

# CONTRACT NO. JDA.10.198.A.2022

## WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

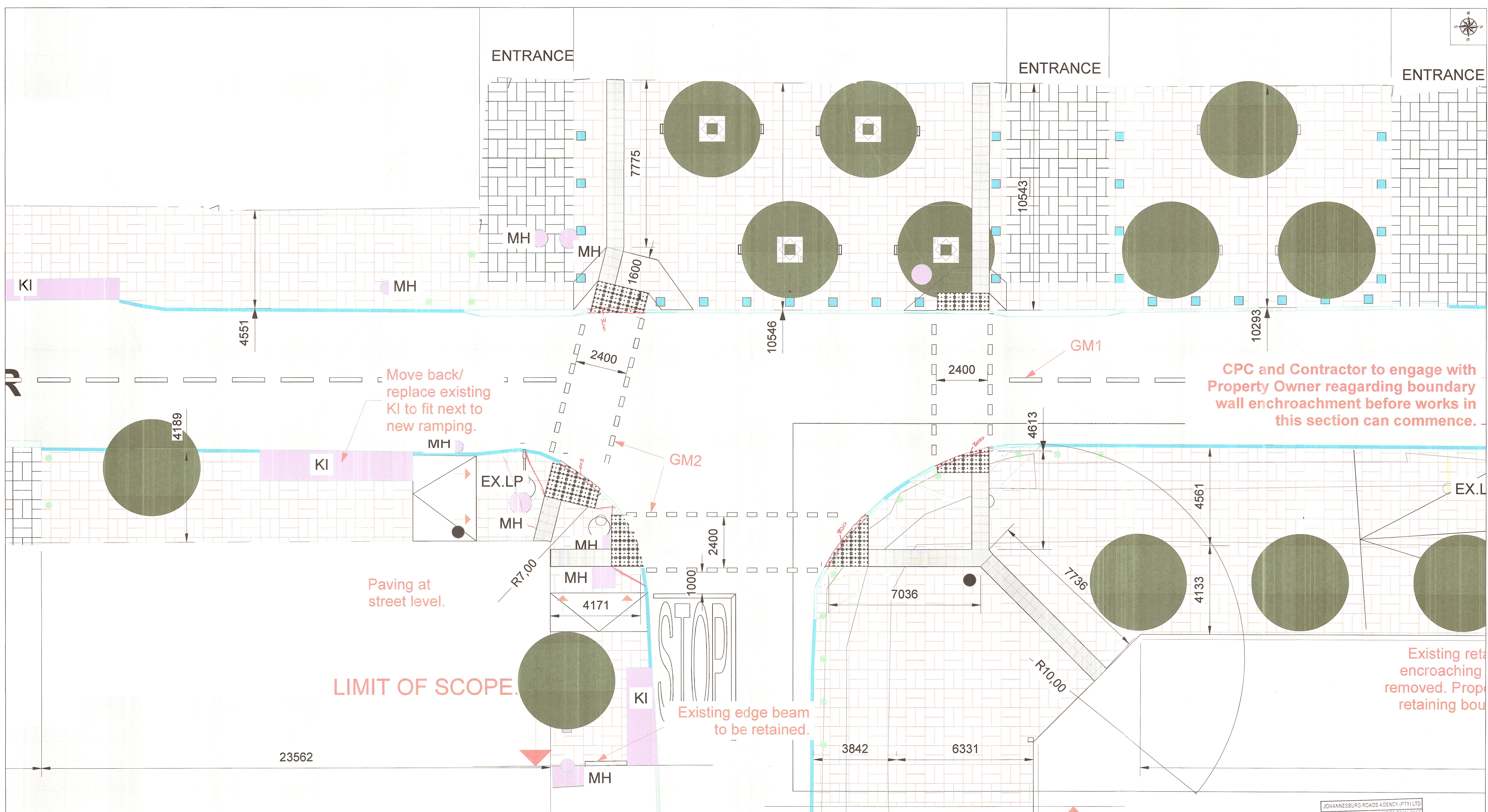


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<b>LAYOUT PLAN DRAWINGS</b>				
JDA - GL - 001 - V01 - C	GENERAL LAYOUT PLAN	01 OF 01	1	19/05/2023
JDA - LP - 001 - V01 - C	IDENTIFIED ROAD AREA TO BE FIXED	01 OF 01	1	19/05/2023
JDA - LP - 002 - V01 - C	CONFIGURATION OF INTERSECTION OF 4TH STREET & SOUTH STREET	01 OF 01	1	27/06/2023
JDA - LP - 003 - V01 - C	CONFIGURATION OF INTERSECTION OF 4TH STREET & ARKWRIGHT AVENUE	01 OF 01	1	27/06/2023
JDA - LP - 004 - V00 - C	CONFIGURATION OF INTERSECTION AT PRETORIA MAIN ROAD (PEDESTRIAN LINK TO BRT)	01 OF 01	0	27/06/2023
<b>STRUCTURAL DRAWINGS</b>				
JDA-WATT-PEU/STG004/001S	GENERAL NOTES & DETAILS	01 OF 02	0	31/01/2023
JDA-WATT-PEU/STG004/002S	RETAINING WALL & STAIR LAYOUT, ELEVATIONS, SECTIONS & DETAILS	02 OF 02	0	31/01/2023
JDA - GBD - 001 - V00 - C	GABION'S BOX DETAILS	01 OF 01	0	19/05/2023
<b>TYPICAL AND DESIGN DRAWINGS</b>				
JDA - TD - 001 - V01 - C	ERECTION DETAILS OF GUARDRAIL	01 OF 01	1	27/06/2023
JDA - TD - 002 - V00 - C	STANDARD SABS KERB DETAIL 1	01 OF 01	0	27/06/2023
JDA - TD - 003 - V00 - C	CONTRACT NAME BOARD	01 OF 01	1	27/06/2023
JDA - TD - 004 - V00 - C	UNIVERSAL ACCESS DETAILS	01 OF 01	0	27/06/2023
JDA - TMP - 001 - V01 - C	TEMPORARY ROAD TRAFFIC MANAGEMENT PLAN	01 OF 01	1	27/06/2023
JDA - SD - 001 - V01 - C	SETTING OUT MEASUREMENT DRAWING 01	01 OF 05	1	27/06/2023
JDA - SD - 002 - V01 - C	SETTING OUT MEASUREMENT DRAWING 02	02 OF 05	1	27/06/2023
JDA - SD - 003 - V01 - C	SETTING OUT MEASUREMENT DRAWING 03	03 OF 05	1	27/06/2023
JDA - SD - 004 - V01 - C	SETTING OUT MEASUREMENT DRAWING 04	04 OF 05	1	27/06/2023
JDA - SD - 005 - V01 - C	SETTING OUT MEASUREMENT DRAWING 05	05 OF 05	1	27/06/2023
<b>ARCHITECTURE DRAWINGS</b>				
JDA-WATT-PEU/STG005/001A	PEDESTRIAN LINK TO BRT STATION - WESTERN SERVICE ROAD	01 OF 02	F	22/06/2023
JDA-WATT-PEU/STG005/001B	PEDESTRIAN LINK TO BRT STATION - WESTERN SERVICE ROAD	02 OF 02	F	22/06/2023
JDA-WATT-PEU/STG005/003A	RESIDUAL SPACE EAST OF MAIN LIFT - BRT LEVEL	01 OF 03	F	22/06/2023
JDA-WATT-PEU/STG005/003B	RESIDUAL SPACE EAST OF MAIN LIFT - BRT LEVEL	02 OF 03	F	22/06/2023
JDA-WATT-PEU/STG005/003C	RESIDUAL SPACE EAST OF MAIN LIFT - ROAD LEVEL	03 OF 03	F	22/06/2023
JDA-WATT-PEU/STG005/005A	4TH STREET	01 OF 02	F	22/06/2023
JDA-WATT-PEU/STG005/005B	4TH STREET	02 OF 02	F	22/06/2023
JDA-WATT-PEU/STG005/006A	STREET FURNITURE SCHEDULE (NO QUANTITIES)	01 OF 01	0	09/03/2023
JDA-WATT-PEU/STG005/007A	STREET FURNITURE DETAILS	01 OF 01	0	22/06/2023
JDA-WATT-PEU/STG005/007B	PAVING, BRICK & STEEL DETAILS	01 OF 01	0	22/06/2023
JDA-WATT-PEU/STG005/001D	PEDESTRIAN ACCESS - WESTERN SERVICE ROAD	01 OF 01	E	17/05/2023
JDA-WATT-PEU/STG005/002D	FIRE ESCAPE STAIR - ROOF LAYOUT	01 OF 01	E	17/05/2023
JDA-WATT-PEU/STG005/003E	PEDESTRIAN ACCESS MAIN LIFT - ROAD LEVEL	01 OF 01	E	17/05/2023
JDA-WATT-PEU/STG005/003G	PEDESTRIAN ACCESS - NEW STAIRCASE - ROAD LEVEL	01 OF 01	E	17/05/2023
JDA-WATT-PEU/STG005/003I	FATES @ NORTH & SOUTH ENDS OF STATION	01 OF 01	E	17/05/2023
JDA-WATT-PEU/STG005/007C	UNIVERSAL ACCESS & FENCING DETAILS	01 OF 01	1	17/05/2023



<b>CLIENT'S DETAILS</b>  3 Helen Joseph NEWTOWN, JOHANNESBURG 2000 JOHANNESBURG DEVELOPMENT AGENCY	<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>NR</th> <th>DATE</th> <th>APPROVED</th> <th>DESCRIPTION</th> <th>PAR</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>27/06/2023</td> <td>JKM</td> <td>ORIGINAL</td> <td></td> </tr> </tbody> </table>	NR	DATE	APPROVED	DESCRIPTION	PAR	0	27/06/2023	JKM	ORIGINAL		<b>NOTES:</b> 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS. 2. PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. 3. A FULL SET OF MATERIAL TESTS (COMPACTION CBR & UCS) REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER. 4. INTERSECTION SERVICES TO BE EXPOSED - POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.	<b>CONSULTANT'S DETAIL</b>  KABE CONSULTING ENGINEERS 218 Dr VAN DER MERWE DRIVE MONTANA PARK 0182 Tel: 087 809 0982 Fax: 086 516 4728 e-mail: info@kabe.co.za	<b>DESIGNED</b> NAME: AMN NDIWA SIGNATURE: [Signature] DATE: 27/06/2023 <b>DRAWN</b> NAME: AMN NDIWA SIGNATURE: [Signature] DATE: 27/06/2023 <b>CHECKED</b> NAME: JK MOZISANE SIGNATURE: [Signature] DATE: 27/06/2023 <b>INFORMATION OFFICE CHECKED</b> NAME: TG MOENG SIGNATURE: [Signature] DATE: 27/06/2023 <b>DESIGN OFFICE APPROVAL</b> NAME: JK MOZISANE SIGNATURE: [Signature] DATE: 27/06/2023	CONTRACT No. JDA.10.198.A.2022 PROJECT No. - SHEET No. 01 of 01 PAPER SIZE A1 SCALE 1:1000 DATE: 27/06/2023	LOCATION OF PROJECT WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO. DESCRIPTION OF PROJECT: WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES DRAWING DESCRIPTION. DRAWING LIST DRAWING No. JDA-DL-001-V001-C	<b>PROJECT STATUS</b> INCEPTION <input type="radio"/> DESIGN <input type="radio"/> TENDER <input type="radio"/> APPROVED CONSTRUCTION DRAWING <input checked="" type="radio"/> AS BUILT <input type="radio"/> PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA): NAME: _____ SIGNATURE: _____ Prof Reg No. _____ DATE: _____ INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY: NAME: _____ SIGNATURE: _____ DATE: _____
	NR	DATE	APPROVED	DESCRIPTION	PAR												
0	27/06/2023	JKM	ORIGINAL														
<table border="1"> <tr> <td style="text-align: center;">1</td> <td>REVISION</td> </tr> </table>							1	REVISION									
1	REVISION																



CONFIGURATION OF INTERSECTION OF 4th STREET AND SOUTH STREET SCALE (NTS)

JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PRIVATE BILL 770 SPECIFICATION 2017  
 TEL: 011 525 6500  
 2023-07-17  
 SCRUTINISED: [Signature]  
 DEVELOPMENT PLANNING & CONTROL

Existing pavement Not part of scope	Interlocking block Type 1	Interlocking block Type 2	Roadway	Clay Pavers Type 1	Clay Pavers Type 2	New Bollards to Detail	New Bin to Detail	Street Trader Demarcation	New Tree Ring per Tree Schedule and Detail	New Tree as per Tree Schedule and Detail	Existing Tree as per layout	New Bench Type A to Detail	New Bench Type B to Detail	New Bench Type C to Detail	Kerb Inlet to Engineer spec.	Stormwater channel to Engineer spec.	Lamp Post Street light	EX-LP NEW-LP	Double Arm Street Light (Street level and Pedestrian level light head)	New Post Top Street light to specification	Existing Single Non-Mountable Kerb	New Single Non-Mountable Kerb to Detail and Eng. Spec.	New Mountable Kerb to Detail and Eng. Spec.	New Garden Kerb to Detail and Eng. Spec.	New Double Non-Mountable Kerb to Detail and Eng. Spec.	New Retaining Wall to Detail and Eng. Spec.	Roadway direction	Entrance Driveway Side slope tie-in to Pavement	Entrance Driveway slope tie-in to Roadway
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CLIENT'S DETAILS

JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	26/08/2023	JKM	ORIGINAL	

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
- A FULL SET OF MATERIAL TESTS/COMPACTION/CBR & UCS) REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER.
- INTERSECTION SERVICES TO BE EXPOSED POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL MEASUREMENTS ARE IN MILLIMETERS (mm)

CONSULTANT'S DETAIL

KABE CONSULTING ENGINEERS  
 218 Dr VAN DER MERWE DRIVE  
 MONTANA PARK  
 0182  
 Tel: 087 809 0952  
 Fax: 086 516 4728  
 e-mail: info@kabe.co.za

DESIGNED  
 NAME: JK MCOLONE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

DRAWN  
 NAME: ANN NDIWA  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

CHECKED  
 NAME: JK MCOLONE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

INFORMATION OFFICE CHECKED  
 NAME: TG MOENI  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

DESIGN OFFICE APPROVAL  
 NAME: JK MCOLONE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

CONTRACT No.  
 JDA.10.198 A.2022

PROJECT No.  
 -

SHEET No.  
 05 of 05

PAPER SIZE  
 A1

SCALE  
 NTS

DATE:  
 27/06/2023

LOCATION OF PROJECT  
 WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

DESCRIPTION OF PROJECT:  
 WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

DRAWING DESCRIPTION:  
 CONFIGURATION OF INTERSECTION OF 4TH STREET & SOUTH STREET

DRAWING No.  
 JDA-LP-002-V01-C

PROJECT STATUS

INCEPTION  DESIGN DEVELOPMENT  TENDER DRAWING  APPROVED CONSTRUCTION DRAWING  AS BUILT DRAWING

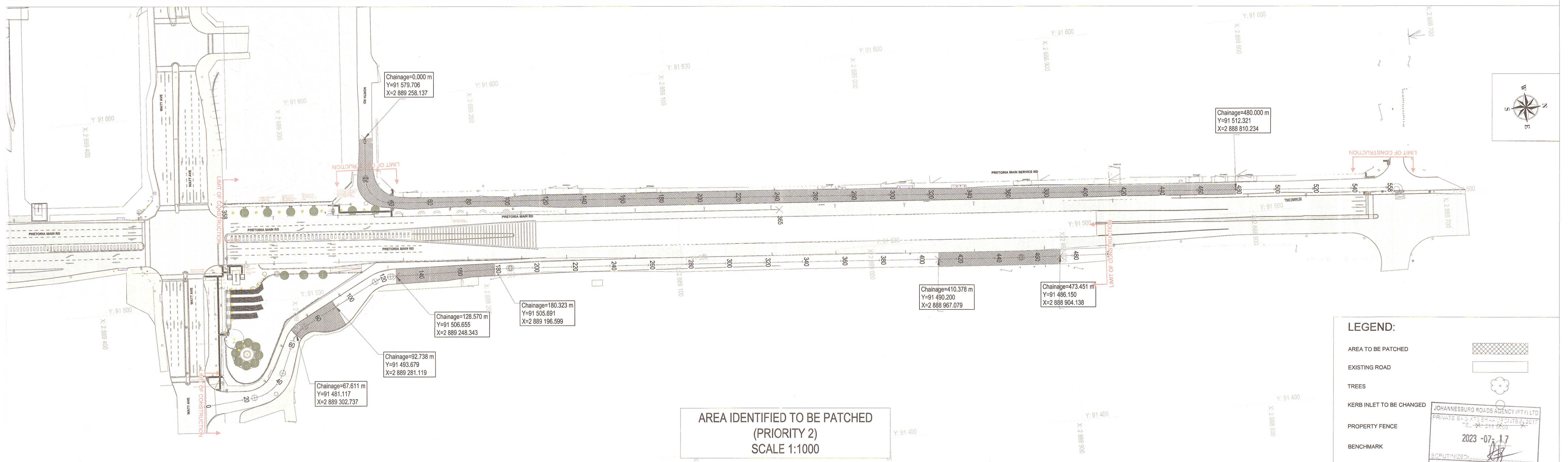
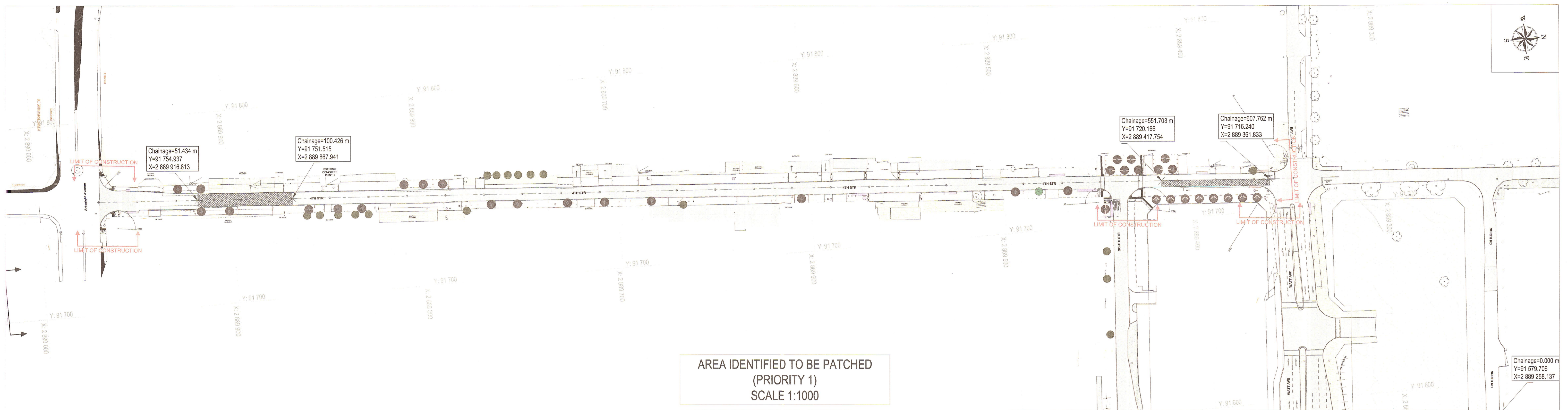
PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_





**LEGEND:**

- AREA TO BE PATCHED
- EXISTING ROAD
- TREES
- KERB INLET TO BE CHANGED
- PROPERTY FENCE
- BENCHMARK

JOHANNESBURG ROADS AGENCY (PTY) LTD  
PRIVATE BIDS APPROVAL CENTRE 2017  
27-06-2023  
2023-07-17  
SCHEMATIZED  
DEVELOPMENT PLANNING & CONTROL

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**CLIENT'S DETAILS**

Johannesburg Development Agency  
3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2000  
JOHANNESBURG DEVELOPMENT AGENCY

**REVISIONS**

NR	DATE	APPROVED	DESCRIPTION	PAR
0	27/06/2023	JKM	ORIGINAL	

**NOTES:**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
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**CONSULTANT'S DETAIL**

**KABE CONSULTING ENGINEERS**  
218 Dr VAN DER MERWE DRIVE  
MONTANA PARK  
0182  
Tel: 087 809 0982  
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**DESIGNED**  
NAME: AMN NDIWA  
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NAME: TG MOENG  
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**DESIGN OFFICE APPROVAL**  
NAME: JK MOLOANE  
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**CONTRACT No.** JDA.10.198.A.2022  
**PROJECT No.** -  
**SHEET No.** 01 of 01  
**PAPER SIZE** A1  
**SCALE** 1:1000  
**DATE:** 27/06/2023

**LOCATION OF PROJECT**  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION:**  
IDENTIFIED AREA TO BE PATCHED

**DRAWING No.**  
JDA - LP - 001 - V01 - C

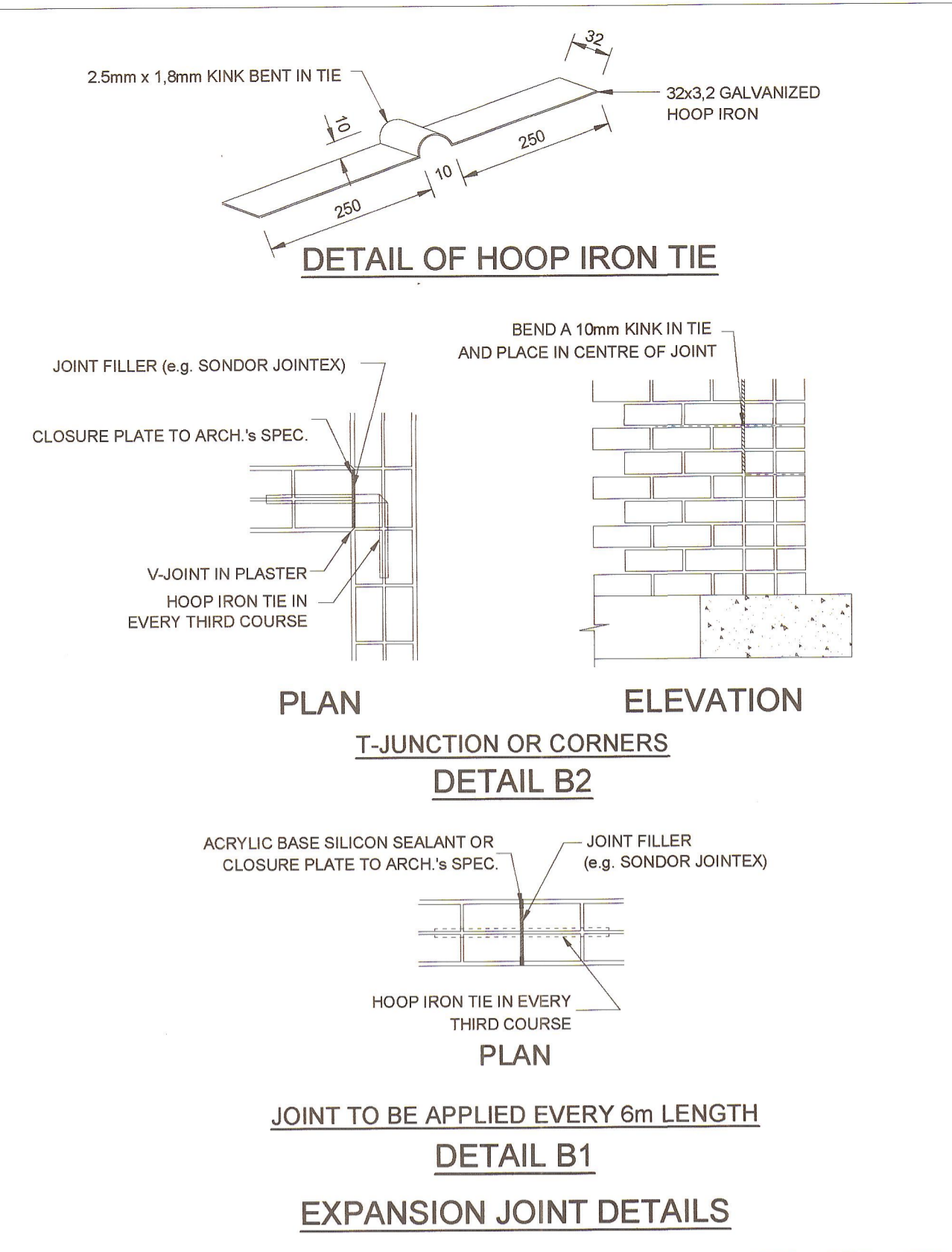
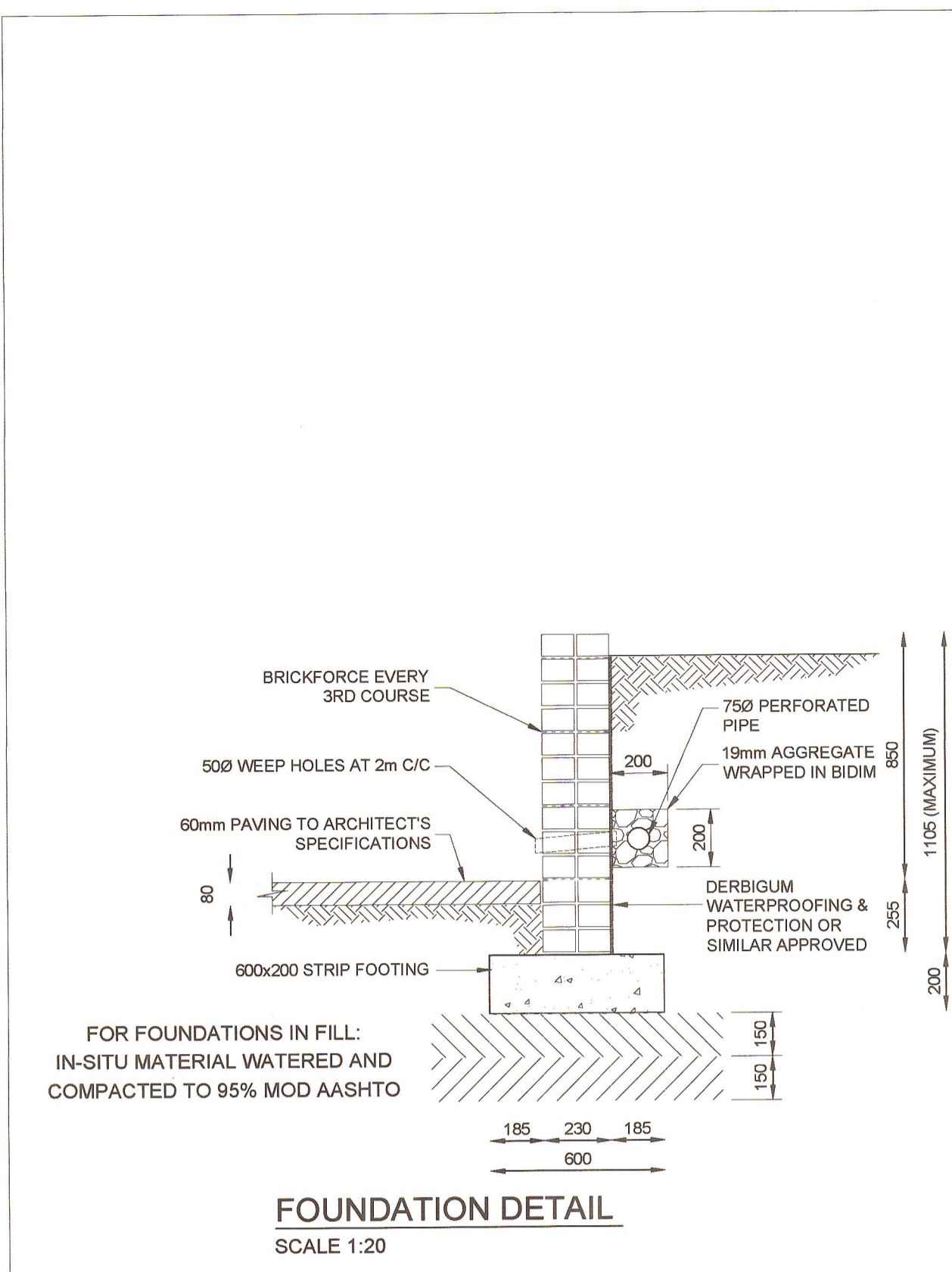
**PROJECT STATUS**

INCEPTION  DESIGN DEVELOPMENT  TENDER DRAWING  APPROVED CONSTRUCTION DRAWING  AS BUILT DRAWING

**PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Prof Reg No. \_\_\_\_\_ DATE: \_\_\_\_\_

**INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

1 REVISION



**NOTES**

- 1. GENERAL**
- 1.1 THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
  - 1.2 ALL INSTRUCTIONS FROM THE ENGINEER SHALL BE WRITTEN IN THE SITE INSTRUCTION BOOK. VERBAL INSTRUCTIONS MUST BE RECORDED AND SIGNED BY THE ENGINEER.
  - 1.3 PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY BE USED ONLY WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.
  - 1.4 ALL PRODUCTS MUST BE APPLIED AND THEIR SUBSTRATES PREPARED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  - 1.5 THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS, INCLUDING THE SABS 1200 STANDARDISED SPECIFICATIONS.
  - 1.6 THE CONTRACTOR MUST IMPLEMENT A QUALITY CONTROL SYSTEM. QUALITY CONTROL MUST BE DONE BY THE CONTRACTOR BEFORE THE ENGINEER WILL DO ANY INSPECTIONS.
- 2. EARTHWORKS AND FOUNDATIONS**
- 2.1 ALL EARTHWORKS SHALL BE DONE IN ACCORDANCE WITH SANS 2001-BE1:2008
  - 2.2 LEVELS OF BASES AS SHOWN ARE PRELIMINARY AND SHALL BE CONFIRMED BY THE ENGINEER ON SITE BEFORE ANY FOUNDATION MAY BE CAST.
  - 2.3 A 50 mm THICK BLINDING LAYER OF 15 MPa / 19 mm CONCRETE SHALL BE CAST UNDER ALL FOUNDATIONS OF THE CONCRETE AND STEEL STRUCTURES. BLINDING LAYERS ARE NOT REQUIRED FOR BRICKWORK FOUNDATIONS.
  - 2.4 ALL COLUMNS AND WALLS SHALL BE PLACED SYMMETRICALLY ON FOUNDATIONS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
  - 2.5 WHERE SOILCRETE IS SPECIFIED, A 1:10 MIXTURE OF CEMENT TO SELECTED MATERIAL FROM EXCAVATIONS MUST BE MIXED WITH WATER TO OBTAIN A MORTAR WITH A 50mm SLUMP. THE SOILCRETE MUST BE COMPACTED AFTER BEING PLACED.
- 3. CONCRETE**
- 3.1 ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SANS 2001-CCI:2012
  - 3.2 THE CONCRETE CLASS IS AS FOLLOWS: MASS CONCRETE 15 MPa / 19mm  
 FOUNDATIONS: 30 MPa / 19mm  
 SURFACE BEDS: 30 MPa / 19mm  
 REPAIRWORK: Approved epoxy
  - 3.3 ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK.
  - 3.4 THE CONTRACTOR MUST CO-ORDINATE ALL SERVICES DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL AND OTHER SERVICES.

- 3. CONCRETE (CONTINUED)**
- 3.5 THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE ENGINEER BEFORE ANY OPENINGS OR SERVICES WHICH ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MAY BE INTRODUCED THROUGH ANY STRUCTURAL ELEMENT.
  - 3.6 THE CONCRETE COVER TO REINFORCING IS AS FOLLOWS (EXCEPT WHERE OTHERWISE NOTED ON BENDING SCHEDULES):  
 FOUNDATIONS 50 mm  
 WALLS 25 mm
  - 3.7 NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS BEFORE THE SLABS HAVE REACHED THEIR 28 DAY STRENGTHS, UNLESS APPROVED IN WRITING BY THE ENGINEER.
  - 3.8 THE STRENGTH OF CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED. THE SIZE AND FIXING METHOD OF COVER BLOCKS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE IT MAY BE USED.
  - 3.9 KICKERS WILL NOT BE ALLOWED FOR COLUMNS OR WALLS.
  - 3.10 PROPPING OF BEAMS SHALL REMAIN IN POSITION UNTIL THE MINIMUM SPECIFIED TIME HAS EXPIRED AFTER THE CASTING OF ANY UPSTAND ELEMENTS (WHERE APPLICABLE). REFER TO SABS 2001-CCI:2012.
  - 3.11 IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
  - 3.12 ALL RC SLABS SHALL BE CAST WITH A CAMBER AS SPECIFIED ON THE DRAWINGS.
  - 3.13 ALL EXPOSED EDGES TO HAVE A 20x20 CHAMFER.
  - 3.14 ALL MIX DESIGNS, WHETHER PRESCRIBED OR NOT, TO BE PROVEN BY MEANS OF A TRIAL MIX OR RELIABLE PREVIOUS RESULTS AND TO BE AGREED BY THE ENGINEER IN WRITING BEFORE ANY CONCRETE IS CAST. AGGREGATES TO COMPLY WITH SANS 2001-CCI CLAUSE 4.2.3. AGREEMENT OF THE MIX DESIGN BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM MEETING ANY OF THE SPECIFIED PERFORMANCE CRITERIA.
  - 3.15 CONCRETE TESTING TO COMPLY WITH SANS 2001-CCI 5.1. CUBE CRUSHING TESTS REQUIRED BY THE ENGINEER SHALL BE AS FOLLOWS:  
 a. A SET OF 3 CUBES TO BE CRUSHED AT 7 DAYS AFTER CASTING.  
 b. A SET OF 3 CUBES TO BE CRUSHED AT 28 DAYS AFTER CASTING.  
 c. ONE SET OF 6 CUBES SHALL BE TAKEN PER BATCH OF UP TO 50 m<sup>3</sup>. THEREAFTER AN ADDITIONAL SET OF 6 CUBES IS REQUIRED FOR EVERY 50 m<sup>3</sup> OR PORTION THEREOF.
  - 3.16 STOOLS IN SLABS/FOUNDATIONS TO BE SPACED 600mm IN BOTH DIRECTIONS UNLESS OTHERWISE SHOWN.
  - 3.17 CURING SHALL BE TO CL 4.7.13 OF SANS 2001-CCI:  
 a. WET CURING TO BE APPLIED TO TOP OF ELEMENT (EXCLUDING COLUMNS) WITHIN 8 HOURS OF START OF CASTING. CONCRETE ELEMENTS TO BE CONTINUOUSLY WET-CURED FOR 3 DAYS AND KEPT COVERED WITH PLASTIC SHEETING FOR THE REMAINDER OF THE PERIOD SPECIFIED IN TABLE 8 OF SANS 2001-CCI. (7 DAYS MINIMUM IN TOTAL) CONCRETE CURING TO BE DONE IN EITHER OF THE FOLLOWING METHODS.  
 b. SLABS/SURFACE BEDS: PONDING OF WATER, SPRINKLING OR SPRAYING WATER. COVERING WITH SAND AND CONTINUOUSLY KEPT WET. COVERINGS WITH WATERPROOF MEMBRANES OR WITH PLASTIC SHEETING AND HELD IN PLACE SO NOT TO DAMAGE CONCRETE.

- 3. CONCRETE (CONTINUED)**
- 3.18 DEFECTIVE CONCRETE & REMEDIAL WORKS:  
 a. DEFECTIVE CONCRETE TO BE REPORTED WITHOUT DELAY AND IN WRITING TO THE ENGINEER.  
 b. NO REMEDIAL WORK MAY BE DONE WITHOUT WRITTEN CONSENT FROM THE ENGINEER.  
 c. VISIBLE HONEYCOMBING WILL NOT BE PERMITTED.  
 d. ALL CONCRETE FORMING PART OF THE POUR CONTAINING VISIBLE HONEYCOMBING WILL BE DEMOLISHED AND REBUILT AT THE CONTRACTOR'S EXPENSE.  
 e. NO PROTRUDING REINFORCEMENT WILL BE PERMITTED.  
 f. BLOW HOLES ARE TO BE FILLED USING DURAREP FC (BY ABE CONSTRUCTION CHEMICALS, OR SIMILAR APPROVED), IF DEEMED NECESSARY BY THE ENGINEER.
  - 3.19 ALL CAST-IN ITEMS TO BE HOT-DIPPED GALVANIZED, CLEAN AND FREE OF OIL, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH CONCRETE. TOLERANCE FOR PLACING ACCORDING TO SANS 2001-CCI CLAUSE 5.2. GALVANIZING TO BE IN ACCORDANCE WITH SANS 121 - 2000.
  - 3.20 AREAS WITH CONGESTED CAST-IN ITEMS, SUCH AS ELECTRICAL CONDUITS, ARE TO BE APPROVED BY THE ENGINEER.
  - 3.21 CHASING, CORING OR CUTTING OF STRUCTURAL ELEMENTS IS NOT ALLOWED, EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER. ANY ELEMENT CHASED INTO OR CORE DRILLED WITHOUT PERMISSION IS TO BE DEMOLISHED ALONG WITH ANY ELEMENTS IT SUPPORTS.
  - 3.22 ALL GROUTS AND EPOXIES TO BE USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.
  - 3.23 CONSTRUCTION JOINT SPECIFICATION:  
 a. ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL BE CLEANED OF ALL DIRT AND LOOSE PARTICLES. ALL INTERSECTIONS OF CONSTRUCTION JOINTS WITH CONCRETE SURFACES, WHICH WILL BE EXPOSED TO VIEW, SHALL BE MADE STRAIGHT AND LEVEL.  
 b. THE SURFACE OF THE CONCRETE TO BE PREPARED, SHALL BE BETWEEN 6 HOURS AND 12 HOURS OLD AFTER COMPLETION OF PLACING AND SHALL BE "BLOWN OFF" USING A HIGH PRESSURE WATER JET UNTIL ALL DIRT AND LAITANCE IS REMOVED AND PARTICLES OF CLEAN COARSE AGGREGATE ARE EXPOSED SUFFICIENTLY TO PRODUCE A ROUGH KEYS SURFACE.  
 c. THE PREPARED SURFACES SHALL BE SATURATED WITH FRESH CLEAN WATER FOR A PERIOD OF 4 HOURS PRIOR TO THE ADJOINING POUR.  
 d. PRIOR TO PLACEMENT OF CONCRETE THE SURFACE CONDITION SHALL BE SATURATED, YET SURFACE DRY - NO POOLING OR STANDING OF WATER.

- 4. REINFORCEMENT**
- 4.1 ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-CCI:2012.
  - 4.2 THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS NOTICE TO THE ENGINEER WHEN INSPECTIONS WILL BE REQUIRED.
  - 4.3 NO HEATING, FLAME CUTTING OR WELDING OF REINFORCEMENT SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
  - 4.4 THE CONTRACTOR SHALL SUPPLY A PROGRAMME TO THE ENGINEER INDICATING DATES, IN ACCORDANCE WITH THE CONSTRUCTION PROGRAMME, WHEN BENDING SCHEDULES FOR EACH COMPONENT WILL BE REQUIRED.
  - 4.5 BEND-OUT BARS AT CONSTRUCTION JOINTS SHALL BE BENT OUT WITH A SUITABLE PIPE SO THAT NO KINK IS FORMED IN THE BARS.
  - 4.6 INSTALLATION OF DOWELS SHALL COMPLY WITH THE FOLLOWING:  
 a. DEPTH OF HOLE: 15 x DIAMETER OF DOWEL  
 b. DIAMETER OF HOLE: 1.3 - 1.4 x DIAMETER OF DOWEL  
 c. EPOXY VERTICAL UPSIDE DOWN: PRO-STRUCT 617 OR SIKADUR 31 (OR SIMILAR APPROVED)  
 d. EPOXY VERTICAL INSTALLATION: PRO-STRUCT 618 OR SIKADUR 32 (OR SIMILAR APPROVED)  
 e. EPOXY HORIZONTAL INSTALLATION: PRO-STRUCT 617 OR SIKADUR 31 (OR SIMILAR APPROVED)  
 f. ADHESIVE TO BE APPLIED STRICTLY TO MANUFACTURER'S SPECIFICATION
  - 4.7 THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE PRESENCE OF THE ENGINEER IS REQUIRED FOR INSPECTION. THE ENGINEER IS TO BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS IN ADVANCE FOR THE REQUIRED INSPECTION.
  - 4.8 CONCRETING MAY NOT COMMENCE PRIOR TO THE INSPECTION AND APPROVAL IN WRITING BY THE ENGINEER OF ALL THE REINFORCEMENT OF A PLANNED POUR.
  - 4.9 SHOULD STARTER BARS MOVE DURING THE PRECEDING CAST; THEY MAY NOT BE BENT BACK INTO POSITION. THE ENGINEER IS TO BE INFORMED IN WRITING - THE CORRESPONDENCE IS TO INCLUDE SUFFICIENT DIGITAL PHOTOGRAPHS TO SHOW THE PROBLEM.
  - 4.10 REINFORCING STEEL SHALL BE CLEAN FROM OIL, RUST, DIRT AND OTHER CONTAMINANTS.
  - 4.11 NO PLASTIC COVER BLOCKS WILL BE PERMITTED.
  - 4.12 SPLICE LENGTHS SHALL NOT BE LESS THAN BE 50x DIAMETER OF SMALLER BAR LAPPED.
  - 4.13 REINFORCEMENT STRENGTH:  
 a) Y - BARS TO HAVE A MIN STRENGTH OF 450 MPa  
 b) R - BARS TO HAVE A MIN STRENGTH OF 250 MPa
  - 4.14 CONCRETE COVER BLOCKS OR SPACERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 10100 PART (8.4.1.2)
- 6. LOAD BEARING BRICKWORK**
- 6.1 MASONRY UNITS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:  
 SABS 227: BURNT CLAY MASONRY UNITS  
 SABS 285: CALCIUM SILICATE MASONRY UNITS  
 SABS 1215: CONCRETE MASONRY BLOCKS
  - 6.2 BRICKWORK SHALL BE BUILT ACCORDING TO SABS 0164.
  - 6.3 THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKS SHALL BE 14 MPa.
  - 6.4 THE MINIMUM CRUSHING STRENGTH OF MORTAR FOR LOADBEARING BRICKWORK SHALL BE AS FOR CLASS I MORTAR IN ACCORDANCE WITH SABS 0164 PART I-1980.
  - 6.5 BRICKWORK SHALL BE REINFORCED WITH BRICKFORCE EVERY FOURTH COURSE, PLUS REINFORCING SPECIFIED ON THE DRAWINGS
  - 6.6 ALL WALL TIES, STRAPS AND BRICKWORK ANCHORS SHALL BE HOT DIPPED
  - 6.7 ONLY LOAD BEARING BRICKWORK IS SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECT'S DRAWINGS FOR LAYOUT AND DIMENSIONS OF OTHER BRICKWORK. STRAIGHT EDGE.
  - 6.8 V-JOINTS ARE TO BE MADE THROUGH PLASTER WORK WHERE BRICKWORK JOINS ONTO CONCRETE OR STEELWORK. REFER TO DETAIL ABOVE
  - 6.9 NON-LOADBEARING BRICKWORK MAY NOT BE BUILT NEARER THAN 10 mm FROM THE SOFFIT OF BEAMS AND SLABS. WHERE BRICKWORK BELOW SLABS IS PLASTERED, THE PLASTER SHALL BE NEATLY CUT LOOSE FROM THE CONCRETE ELEMENT ABOVE TO THE ARCHITECT'S SATISFACTION IN ORDER TO FORM A GAP OF 5 mm.
- 7. SURFACE BEDS**
- 7.1 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROVISION OF SUITABLE MATERIALS AND MANUFACTURE OF CONCRETE TO THE REQUIRED QUALITY.
  - 7.2 THE DEGREE OF ACCURACY SHALL BE AS FOLLOWS:  
 \* THE MAXIMUM DEVIATION OF THE SURFACE FROM ANY STRAIGHT LINE BETWEEN TWO POINTS 3m APART SHALL BE 3mm  
 \* THE DIFFERENCE IN LEVEL AT ANY JOINT OR OTHER DISCONTINUITY IN THE FLOOR SHALL BE LESS THAN 1mm  
 \* THE DEVIATION OF THE TOP OR BOTTOM SURFACE OF THE FLOOR FROM THE DESIGNED LEVEL AS DETERMINED FROM THE NEAREST TRANSFERRED DATUM LEVEL SHALL NOT EXCEED -15 +5 mm  
 \* DEVIATION IN THE THICKNESS OF THE FLOOR SHALL NOT EXCEED -5 +15 mm
  - 7.3 CONCRETE SHALL BE CURED BY MEANS OF A LIQUID MEMBRANE FORMING COMPOUND TO AASHTO M148 THAT DOES NOT FLAKE AND THAT IS SUITABLE FOR THE APPLICATION OF EPOXY SURFACING, PVC TILES, SCREED, ETC.
  - 7.4 CONCRETE SHALL BE PLACED IN POSITION IN SUCH A WAY THAT SEGREGATION DOES NOT OCCUR AND COMPACTED IMMEDIATELY AFTER PLACING. IT SHALL BE THOROUGHLY WORKED AROUND REINFORCING PIPES, SHUTTERS, EMBEDDED FIXTURES, ETC. WITHOUT DISPLACING THEM.
  - 7.5 POWERFLOATING SHALL BE DONE AFTER BLEEDING OF THE CONCRETE HAS CEASED, AFTER BLEED WATER HAS EVAPORATED OR HAS BEEN REMOVED, AND THE CONCRETE HAS STIFFENED SUFFICIENTLY. CEMENT POWDER SHALL NOT BE APPLIED TO THE SURFACE UNDER ANY CIRCUMSTANCE.
  - 7.6 JOINT EDGES SHALL BE ROUNDED TO A RADIUS OF 3mm TO FORM A SMOOTH.
  - 7.7 SAWCUT JOINTS SHALL COMMENCE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT SPALLING OR EXCESSIVE RAVELLING, AND BEFORE SHRINKAGE CRACKING OCCURS. THE CUTS AND SURFACE SHALL BE CLEANED BY MEANS OF A HIGH VELOCITY WATER JET.
  - 7.8 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY LAID CONCRETE.
  - 7.9 TESTING OF THE MATERIALS SHALL BE DONE IN ACCORDANCE WITH SABS 1200G.

JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PRIVATE 225 XTORRENT/STATION 2017  
 TEL: 011 295 5000  
 2023-07-17  
 SCRUTINIZED:  
 DEVELOPMENT PLANNING & CONTROL

**CLIENT'S DETAILS**

3 Helen Joseph  
 NEWTOWN, JOHANNESBURG  
 2000  
 JOHANNESBURG DEVELOPMENT AGENCY

**REVISIONS**

NR	DATE	APPROVED	DESCRIPTION	PAR
0	25/01/2023	JKM	ORIGINAL	

- NOTES:**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
  2. PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
  3. A FULL SET OF MATERIAL TESTS (COMPACTION, CBR & UCS) REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER.
  4. INTERSECTION SERVICES TO BE EXPOSED POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
  5. ALL MEASUREMENTS ARE IN MILLIMETERS (mm)

**CONSULTANT'S DETAIL**

KABE CONSULTING ENGINEERS  
 218 Dr VAN DER MERWE DRIVE  
 MONTANA PARK  
 0182  
 Tel: 087 809 0982  
 Fax: 086 516 4728  
 e-mail: info@kabe.co.za

**DESIGNED**  
 NAME: B.N NKOKO  
 SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**DRAWN**  
 NAME: T.M MOKOENA  
 SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**CHECKED**  
 NAME: JK MOGENSE  
 SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023  
 Prof Reg No: 201470015

**INFORMATION OFFICE CHECKED**  
 NAME: TG MOENG  
 SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023

**DESIGN OFFICE APPROVAL**  
 NAME: JK MOGENSE  
 SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023  
 Prof Reg No: 201470015

**CONTRACT No.**  
 JDA.10.198.A.2022

**PROJECT No.**  
 -

**SHEET No.**  
 -

**PAPER SIZE**  
 A1

**SCALE**  
 -

**DATE:**  
 31/01/2023

**LOCATION OF PROJECT**  
 WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
 WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION.**  
 GENERAL NOTES & DETAILS

**DRAWING No.**  
 JDA-WATT-PEU/STG004/001S

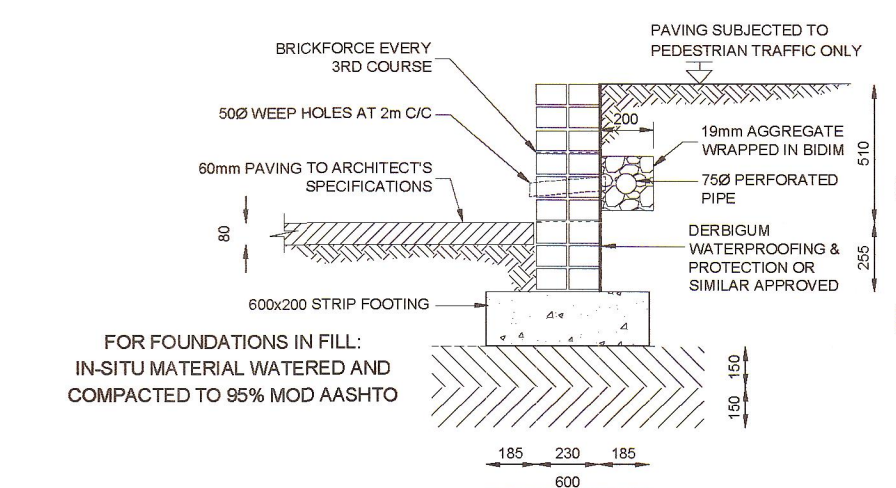
**PROJECT STATUS**

INCEPTION DESIGN DEVELOPMENT TENDER DRAWING APPROVED CONSTRUCTION DRAWING AS BUILT DRAWING

**PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):**  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 Prof Reg No. \_\_\_\_\_ DATE: \_\_\_\_\_

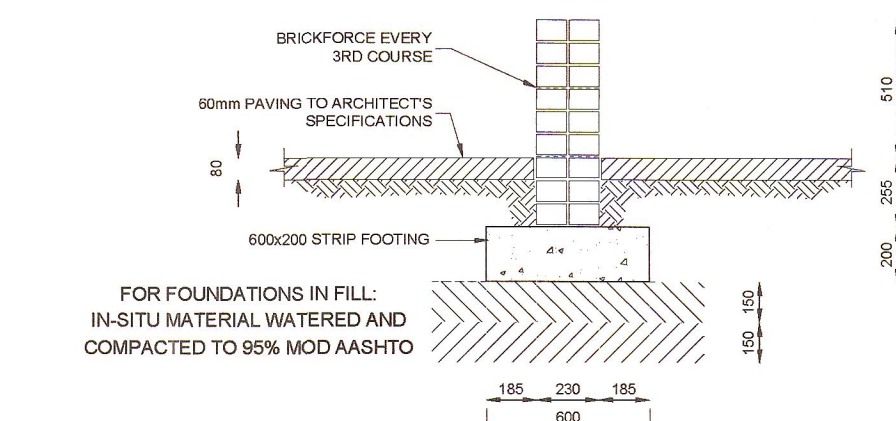
**INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:**  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTE:  
REFER TO DRAWING NO. JDA-WATT-PEU/STG004/001S FOR GENERAL NOTES AND DETAILS



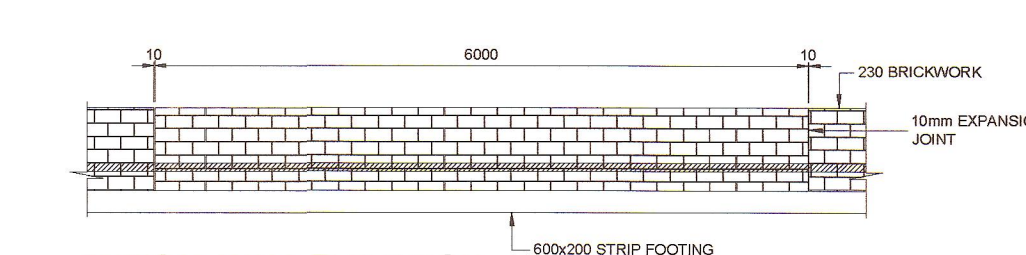
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BRICKWORK TO HAVE EXPANSION JOINT EVERY 6m LENGTH

STRIP FOOTING TYPE 'A & C'  
SCALE 1:20

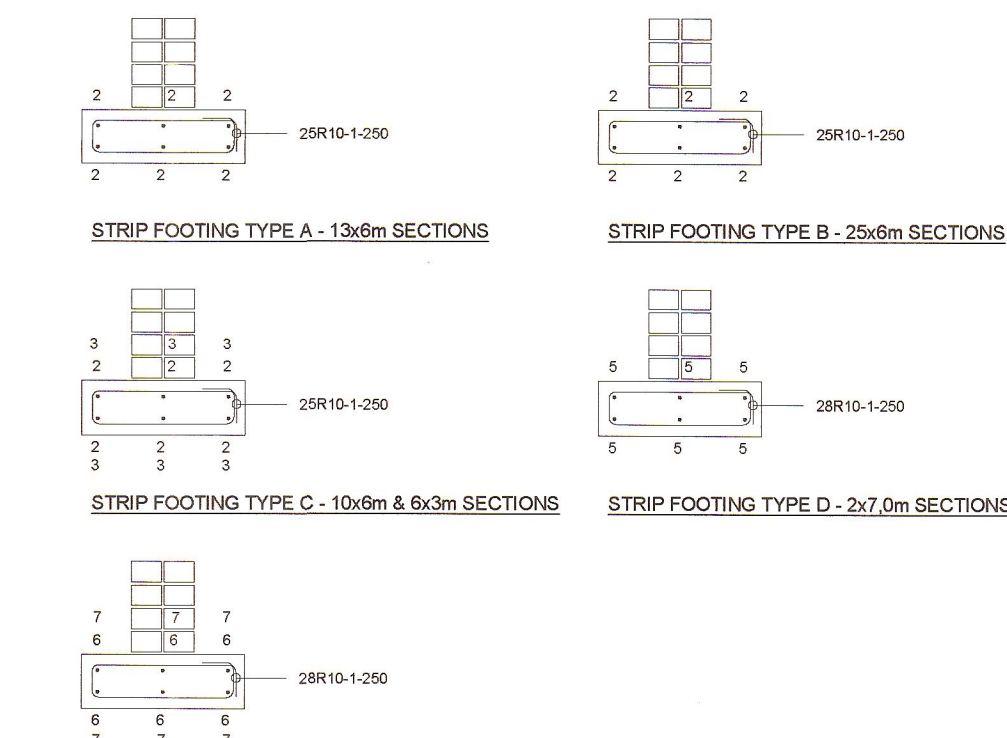


NOTE:  
BRICKWORK TO HAVE EXPANSION JOINT EVERY 6m LENGTH

STRIP FOOTING TYPE 'B, D & E'  
SCALE 1:20



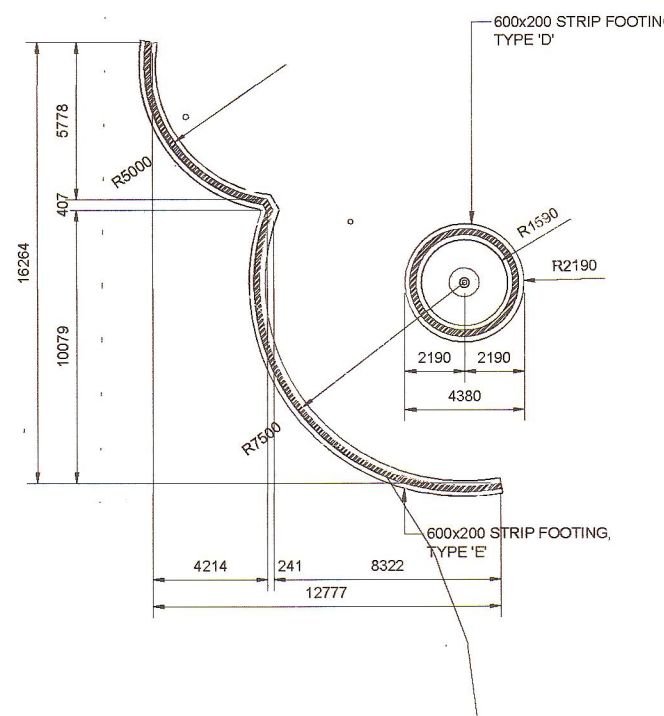
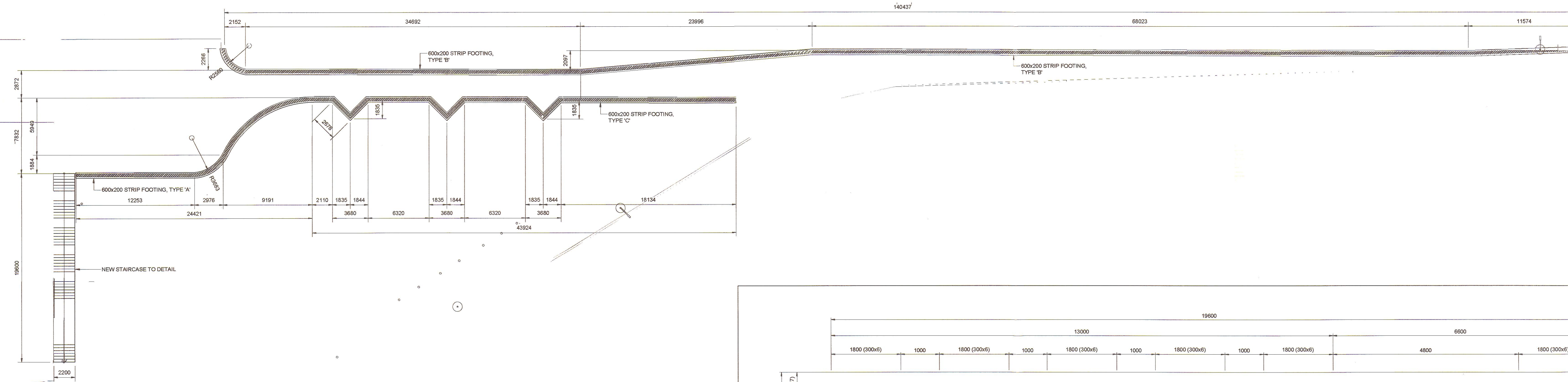
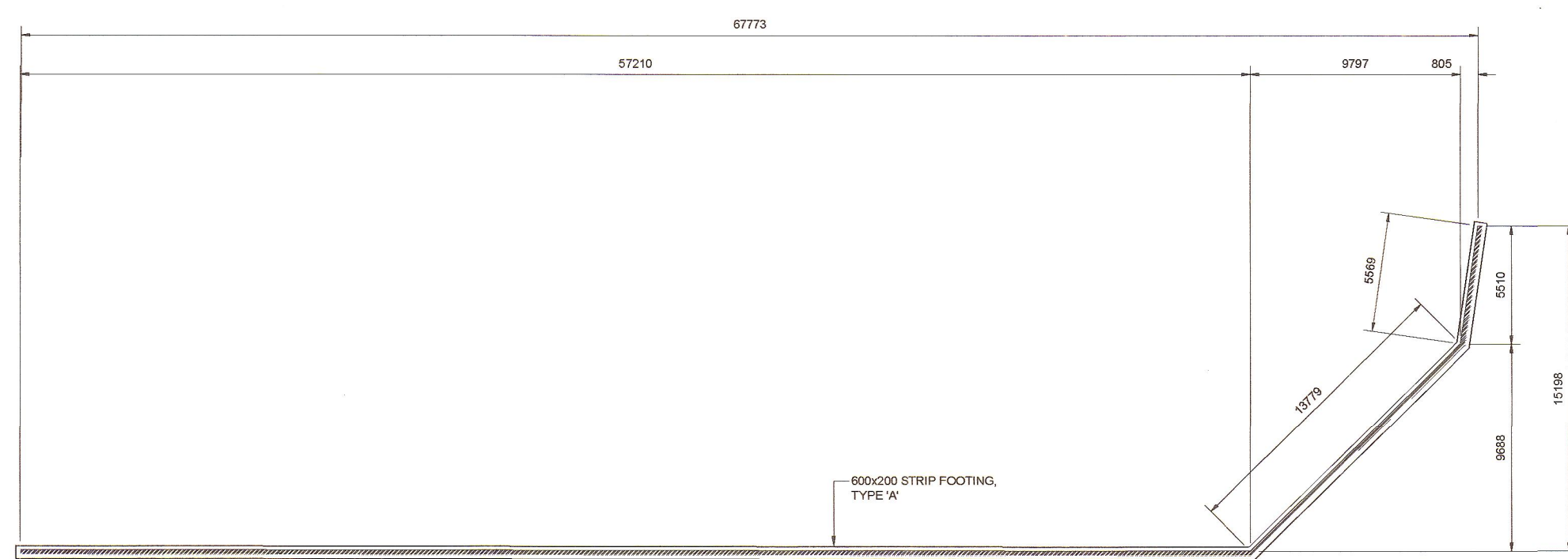
TYPICAL WALL ELEVATION  
SCALE 1:50



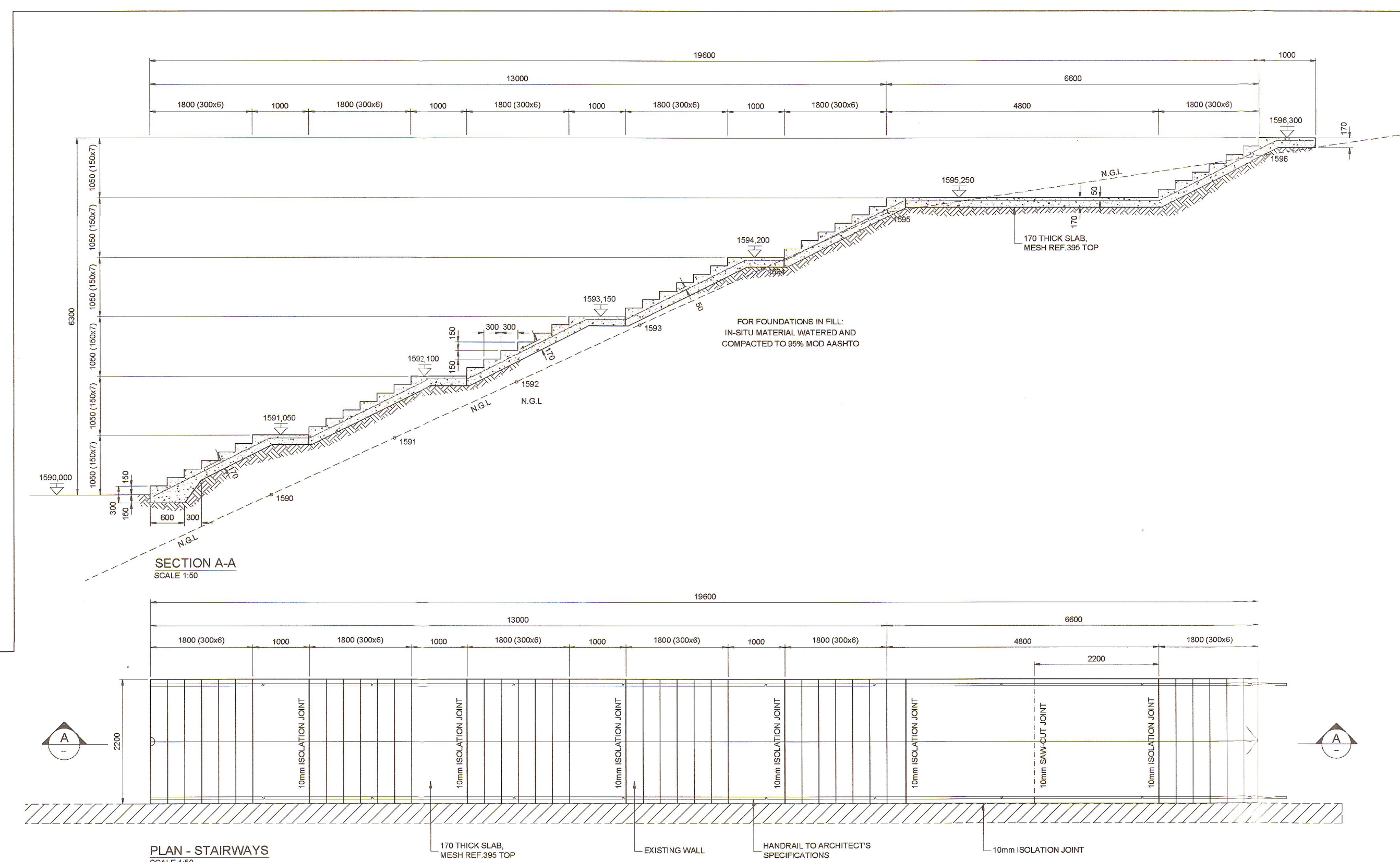
MEMBER	No OF MEMB	BAR PER MEMB	Ø	LENGTH	TOTAL LENGTH	MARK	B	C	BENDING					
							A	B	C	D	E			
FOOTING TYPE A	13	20	R10	1400	320	1	60	120	620					
	8	Y12	6500	78	2	20	6500							
FOOTING TYPE B	25	25	R10	1450	625	1	60	120	620					
	10	6	Y12	6500	40	2	20	6500						
FOOTING TYPE C	13	20	R10	1450	325	1	60	120	620					
	6	6	Y12	3000	36	3	20	3000						
FOOTING TYPE D	2	28	R10	1450	56	1	60	120	620					2190
	6	6	Y12	7000	12	5	65	7000						
FOOTING TYPE E	2	31	R10	1450	62	1	60	120	620					
	6	6	Y12	8550	12	6	65	8550						7915
	1	6	Y12	8700	6	7	65	8700						5415

R	Y	TOT	FOOTING REINFORCEMENT	Revision	Date	By	Check	Job No	Schedule No	Rev						
8	10	12	16	20	25	32	40	TOT	1246	1977	1977	Ref Orig			2023-01-26	T.M
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									1246	1977	1977	Ref Orig				

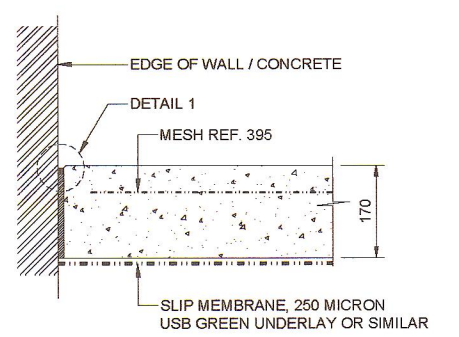
JOHANNESBURG ROADS AGENCY (PTY) LTD  
PRIVATE REG NO: 2014/012015  
TEL: 011 293 2222  
2023-07-17  
DEVELOPMENT PLANNING & CONSULTING



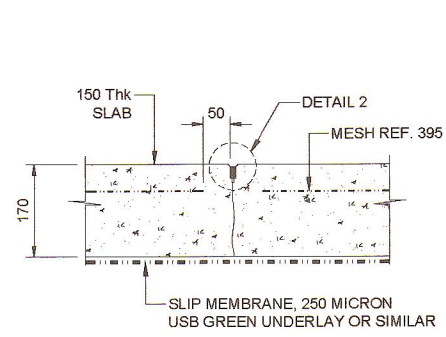
RETAINING WALLS - WALKWAY LAYOUT  
SCALE 1:200



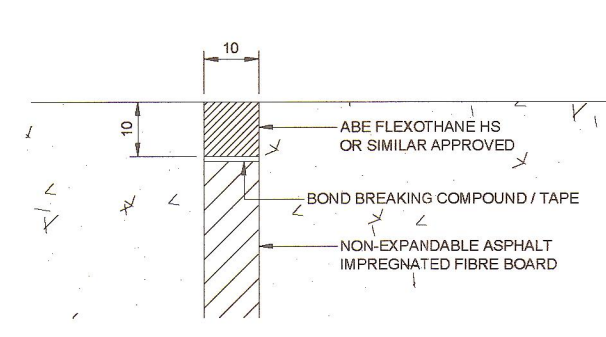
PLAN - STAIRWAYS  
SCALE 1:50



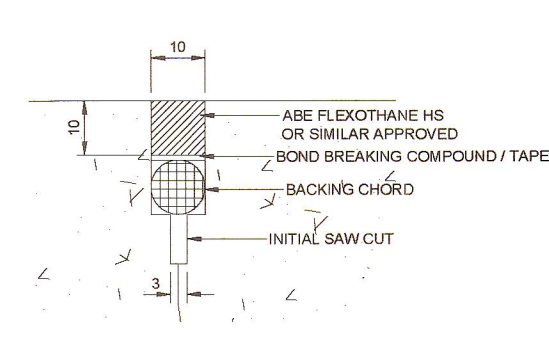
DETAIL 1 - ISOLATION JOINT (I.J.)  
SCALE 1:10



DETAIL 2 - SAW CUT JOINT (S.J.)  
SCALE 1:10



DETAIL 1 - ISOLATION JOINT (I.J.)  
SCALE 1:1



DETAIL 2 - SAW CUT JOINT (S.J.)  
SCALE 1:1

CLIENT'S DETAILS



REVISIONS

NR	DATE	APPROVED	DESCRIPTION	PAR
0	25/01/2023	JKM	ORIGINAL	

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING NO. JDA-PEU/STG004/001S FOR GENERAL NOTES AND DETAILS.

CONSULTANT'S DETAIL



KABE CONSULTING ENGINEERS  
218 Dr VAN DER MERWE DRIVE  
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Fax: 086 516 4728  
e-mail: info@kabe.co.za

DESIGNED

NAME: B N NKOKO  
SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
NAME: T M MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
NAME: J K MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023  
NAME: T G MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023  
NAME: J K MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023

DRAWN

NAME: J K MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023  
NAME: T G MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023  
NAME: J K MOKOENA  
SIGNATURE: \_\_\_\_\_ DATE: 27/06/2023

CONTRACT No.

JDA-10-198-A-2022

PROJECT No.

SHEET No.  
PAPER SIZE  
SCALE  
DATE: 31/01/2023

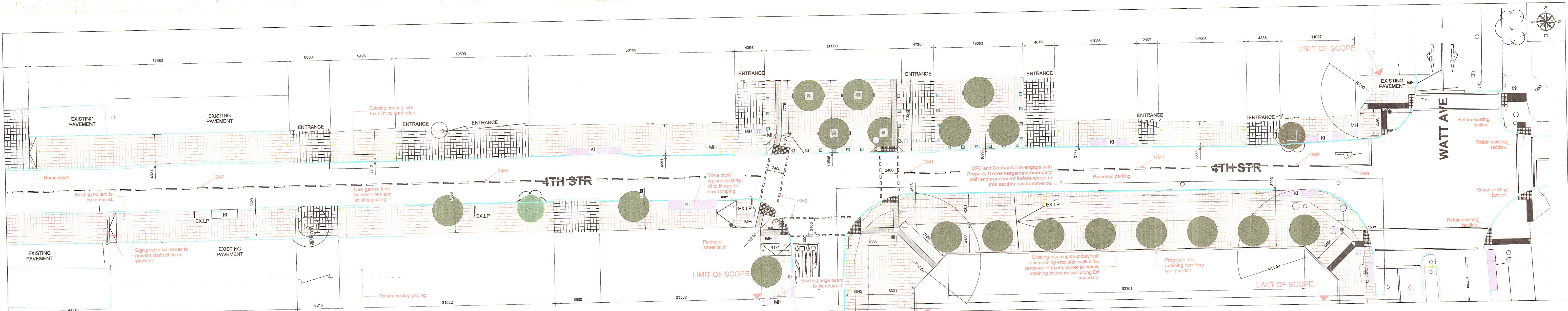
LOCATION OF PROJECT

WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.  
DESCRIPTION OF PROJECT:  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES  
DRAWING DESCRIPTION:  
RETAINING WALL & STAIR LAYOUT, ELEVATIONS, SECTIONS & DETAILS  
DRAWING No.  
JDA-WATT-PEU/STG004/002S

PROJECT STATUS

INCEPTION  
DESIGN DEVELOPMENT  
TENDER DRAWING  
APPROVED FOR CONSTRUCTION  
AS BUILT DRAWING

PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Prof Reg No: \_\_\_\_\_ DATE: \_\_\_\_\_  
INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_



4th STREET (INTERLOCKING PAVING BLOCK MEASUREMENTS)  
SCALE 1:200

JOHANNESBURG ROADS AGENCY (PTY) LTD  
PRIVATE BLDG 5175 SPAN 1190 FORT BEAR 2317  
TEL: 011 266 8000  
2023-07-17  
SCPUTINIZE  
DEVELOPMENT PLANNING & CONTROL

Existing pavement Not part of scope	Interlocking block Type 1	Interlocking block Type 2	Roadway	Clay Pavers Type 1	Clay Pavers Type 2	New Bollards to Detail	New Bin to Detail	Street Trader Demarcation	New Tree Ring per Tree Schedule and Detail	New Tree as per Tree Schedule and Detail	Existing Tree as per layout	New Bench Type A to Detail	New Bench Type B to Detail	New Bench Type C to Detail	Kerb inlet to Engineer spec.	Stormwater channel to Engineer spec.	Lamp Post Street Light	Double Arm Street Light (Street level and Pedestrian level light head)	New Post Top Street light to specification	Existing Single Non-Mountable Kerb.	New Single Non-Mountable Kerb to Detail and Eng. Spec.	New Mountable Kerb to Detail and Eng. Spec.	New Garden Kerb to Detail and Eng. Spec.	New Double Non-Mountable Kerb to Detail and Eng. Spec.	New Retaining Wall to Detail and Eng. Spec.	Roadway direction.	Entrance Driveway slope tie-in to Pavement	Entrance Driveway slope tie-in to Roadway
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CLIENT'S DETAILS

3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2009  
JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	19/05/2023	JCM	ORIGINAL	

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
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- INTERSECTION SERVICES TO BE EXPOSED. POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL MEASUREMENTS ARE IN MILLIMETERS (mm).

CONSULTANT'S DETAIL

KABE CONSULTING ENGINEERS  
218 DV VAN DER MERWE DRIVE  
MONTANA PARK  
0182  
Tel: 087 809 0982  
Fax: 086 516 4728  
e-mail: info@kabe.co.za

DESIGNED  
NAME: J.K. MCGLOTHLIN  
SIGNATURE: [Signature]  
DATE: 27/06/2023

DRAWN  
NAME: AMN NDIWU  
SIGNATURE: [Signature]  
DATE: 27/06/2023

CHECKED  
NAME: J.K. MCGLOTHLIN  
SIGNATURE: [Signature]  
DATE: 27/06/2023

INFORMATION OFFICE CHECKED  
NAME: TO MOENI  
SIGNATURE: [Signature]  
DATE: 27/06/2023

DESIGN OFFICE APPROVAL  
NAME: J.K. MCGLOTHLIN  
SIGNATURE: [Signature]  
DATE: 27/06/2023

CONTRACT No.  
JDA.10.198.A.2022

PROJECT No.

SHEET No.  
05 of 05

PAPER SIZE  
A1

SCALE

DATE:  
27/08/2023

LOCATION OF PROJECT  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

DESCRIPTION OF PROJECT:  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

DRAWING DESCRIPTION:  
SETTING OUT & MEASUREMENT DRAWING 05

DRAWING No.  
JDA-SD-005-V01-C

PROJECT STATUS

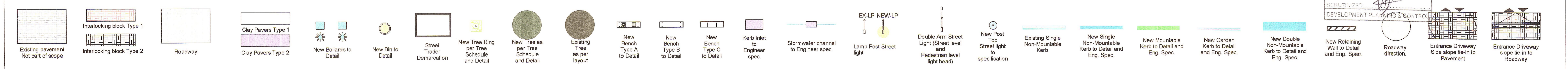
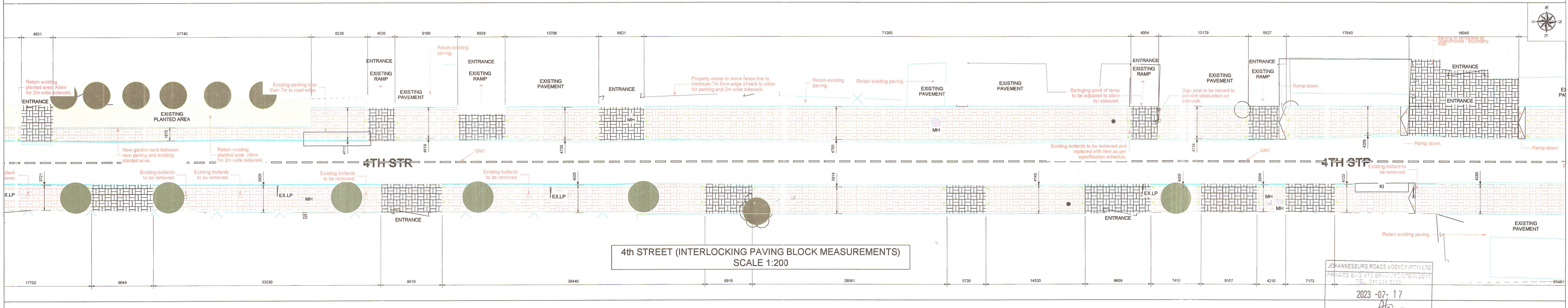
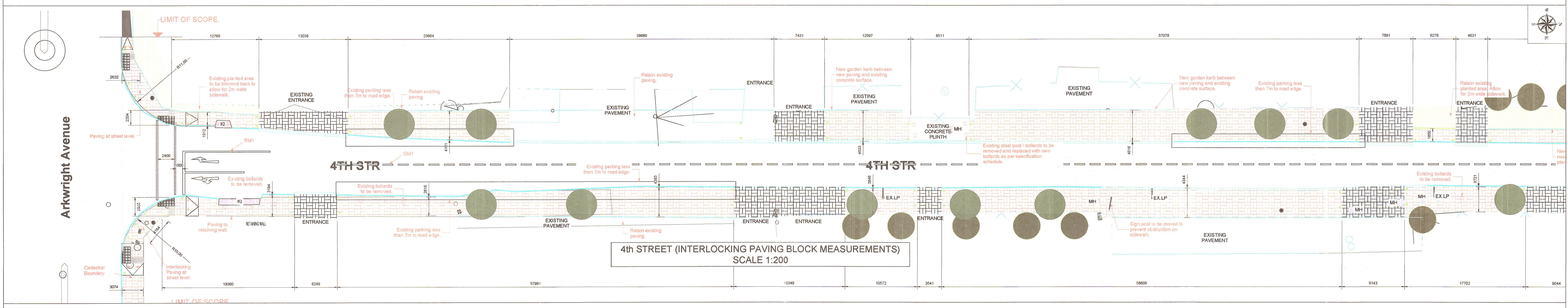
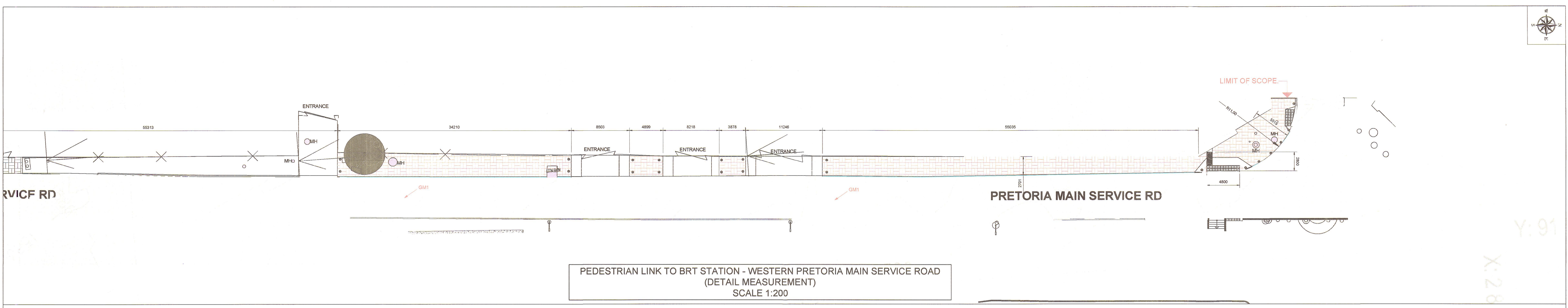
INCEPTION  DESIGN DEVELOPMENT  TENDER DRAWING  APPROVED CONSTRUCTION DRAWINGS  AS BUILT DRAWING



PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):

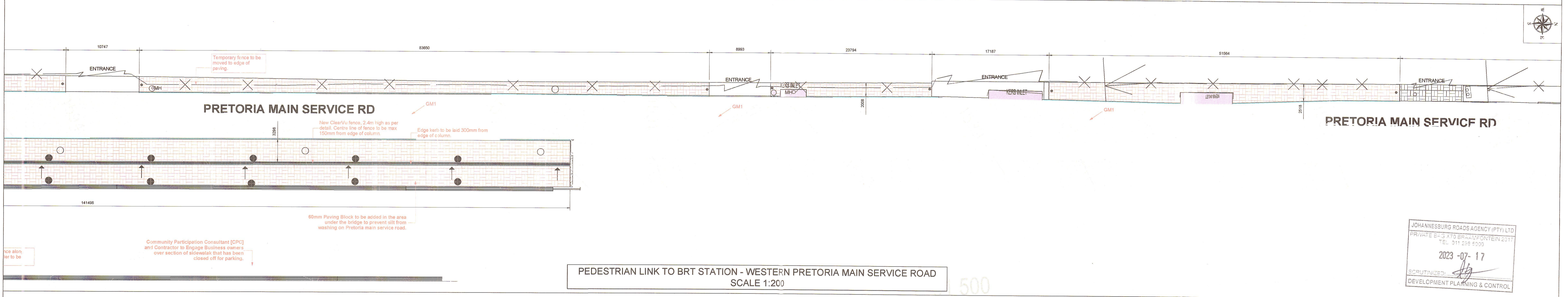
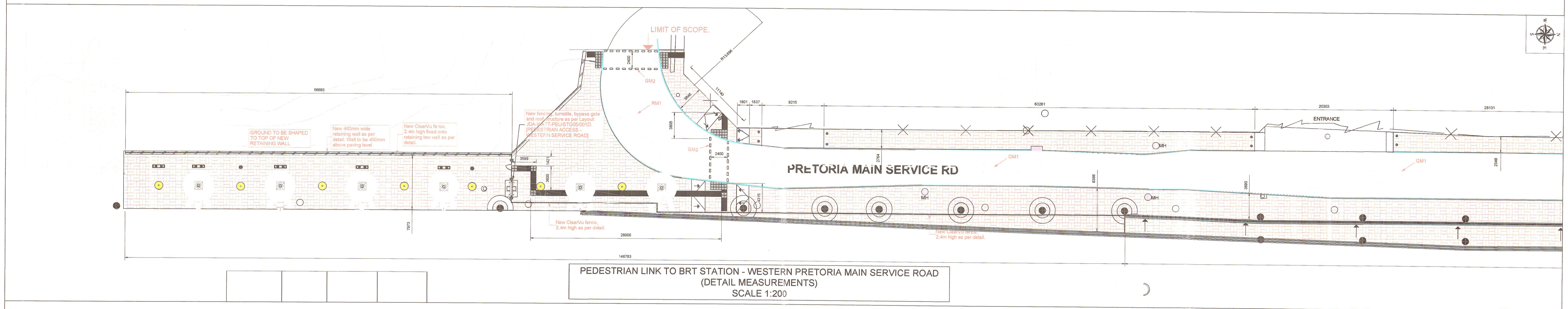
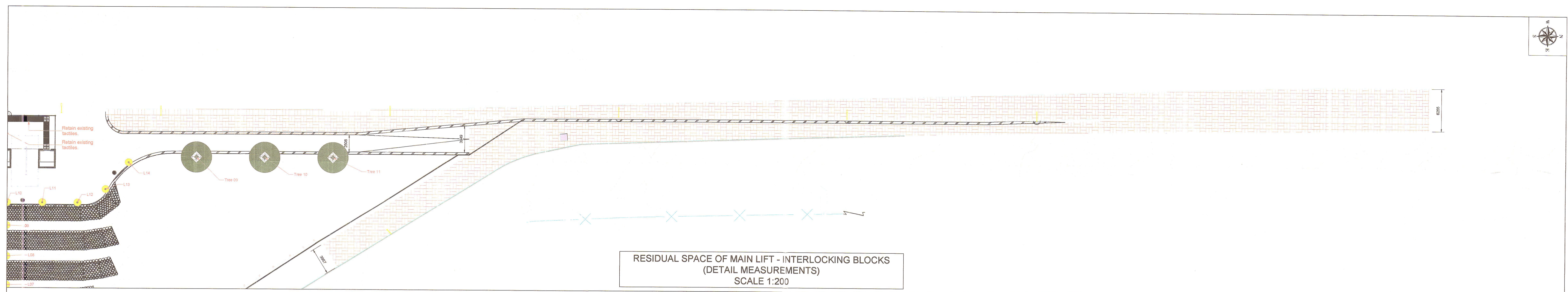
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_



<b>CLIENT'S DETAILS</b>  Johannesburg Development Agency 3 Helen Joseph NEWTOWN, JOHANNESBURG 2000 JOHANNESBURG DEVELOPMENT AGENCY	<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>NR</th> <th>DATE</th> <th>APPROVED</th> <th>DESCRIPTION</th> <th>PAR</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>19/05/2023</td> <td>JKM</td> <td>ORIGINAL</td> <td></td> </tr> </tbody> </table>	NR	DATE	APPROVED	DESCRIPTION	PAR	0	19/05/2023	JKM	ORIGINAL		<b>NOTES:</b> 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS. 2. PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES (WHICH ARE TO BE CROSSED) MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. 3. A FULL SET OF MATERIAL TESTS/COMPACTION (R & U) IS REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER. 4. INTERSECTION SERVICES TO BE EXPOSED - POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. 5. ALL MEASUREMENTS ARE IN MILLIMETERS (MM).	<b>CONSULTANT'S DETAIL</b>  <b>KABE CONSULTING ENGINEERS</b> 218 DE VAN DER MERWE DRIVE MONTANA PARK 0182 Tel: 087 809 0982 Fax: 086 516 4728 e-mail: info@kabe.co.za	<b>DESIGNED</b> NAME: JK MACHANE SIGNATURE: [Signature] DATE: 27/06/2023 <b>DRAWN</b> NAME: AM NDOVU SIGNATURE: [Signature] DATE: 27/06/2023 <b>CHECKED</b> NAME: JK MACHANE SIGNATURE: [Signature] DATE: 27/06/2023 <b>INFORMATION OFFICE CHECKED</b> NAME: TO MOENG SIGNATURE: [Signature] DATE: 27/06/2023 <b>DESIGN OFFICE APPROVAL</b> NAME: JK MACHANE SIGNATURE: [Signature] DATE: 27/06/2023	<b>CONTRACT No.</b> JDA-10.198 A.2022 <b>PROJECT No.</b> 04 of 05 <b>SHEET No.</b> 04 of 05 <b>PAPER SIZE</b> A1 <b>SCALE</b> DATE: 27/08/2023	<b>LOCATION OF PROJECT</b> WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO. <b>DESCRIPTION OF PROJECT:</b> WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES <b>SETTING OUT &amp; MEASUREMENT DRAWING 04</b> <b>DRAWING No.</b> JDA-SD-004-V01-C	<b>PROJECT STATUS</b> <table border="1"> <thead> <tr> <th>INCEPTION</th> <th>DESIGN DEVELOPMENT</th> <th>TENDER DRAWING</th> <th>APPROVED CONSTRUCTION DRAWING</th> <th>AS BUILT DRAWING</th> </tr> </thead> <tbody> <tr> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table> <b>PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):</b> NAME: _____ SIGNATURE: _____ Prof Reg No.: _____ DATE: _____ <b>INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:</b> NAME: _____ SIGNATURE: _____ DATE: _____	INCEPTION	DESIGN DEVELOPMENT	TENDER DRAWING	APPROVED CONSTRUCTION DRAWING	AS BUILT DRAWING	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	NR	DATE	APPROVED	DESCRIPTION	PAR																						
0	19/05/2023	JKM	ORIGINAL																								
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																							



JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PRIVATE B-3 473 281-45 FORTEN 2317  
 TEL: 011 236 5000  
 2023-07-17  
 SCRUTINIZED: [Signature]  
 DEVELOPMENT PLANNING & CONTROL

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CLIENT'S DETAILS

Johannesburg Development Agency  
 3 Helen Joseph  
 NEWTOWN, JOHANNESBURG  
 2009  
 JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	19/05/2023	JKM	ORIGINAL	

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CONSULTANT'S DETAIL

KABE CONSULTING ENGINEERS  
 218 Dr VAN DER MERWE DRIVE  
 MONTANA PARK  
 0182  
 Tel: 087 809 0982  
 Fax: 086 516 4728  
 e-mail: info@kabe.co.za

DESIGNED

NAME: JK MOKGANE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

DRAWN

NAME: AMN MOGANE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

CHECKED

NAME: JK MOKGANE  
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INFORMATION OFFICE CHECKED

NAME: TO MOGANE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

DESIGN OFFICE APPROVAL

NAME: JK MOKGANE  
 SIGNATURE: [Signature]  
 DATE: 27/06/2023

CONTRACT No.  
 JDA 10 198 A 2022

PROJECT No.  
 -

SHEET No.  
 03 of 05

PAPER SIZE  
 A1

SCALE  
 -

DATE:  
 27/06/2023

LOCATION OF PROJECT  
 WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

DESCRIPTION OF PROJECT:  
 WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

DRAWING DESCRIPTION:  
 SETTING OUT & MEASUREMENT DRAWING 03

DRAWING No.  
 JDA-SD-003-V01-C

PROJECT STATUS

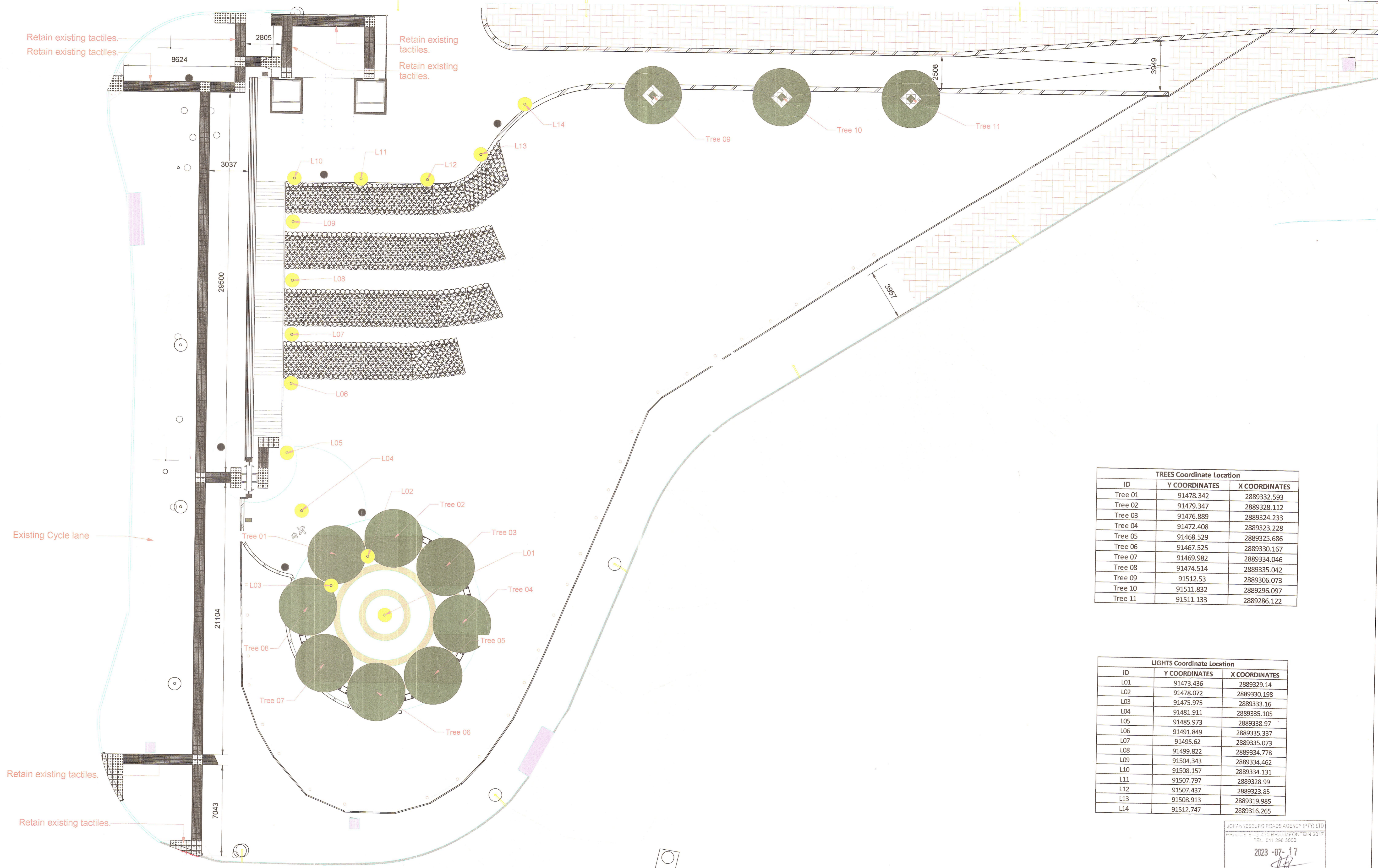
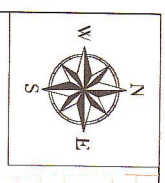
REVISION

PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_



TREES Coordinate Location		
ID	Y COORDINATES	X COORDINATES
Tree 01	91478.342	2889332.593
Tree 02	91479.347	2889328.112
Tree 03	91476.889	2889324.233
Tree 04	91472.408	2889323.228
Tree 05	91468.529	2889325.686
Tree 06	91467.525	2889330.167
Tree 07	91469.982	2889334.046
Tree 08	91474.514	2889335.042
Tree 09	91512.53	2889306.073
Tree 10	91511.832	2889296.097
Tree 11	91511.133	2889286.122

LIGHTS Coordinate Location		
ID	Y COORDINATES	X COORDINATES
L01	91473.436	2889329.14
L02	91478.072	2889330.198
L03	91475.975	2889333.16
L04	91481.911	2889335.105
L05	91485.973	2889338.97
L06	91491.849	2889335.337
L07	91495.62	2889335.073
L08	91499.822	2889334.778
L09	91504.343	2889334.462
L10	91508.157	2889334.131
L11	91507.797	2889328.99
L12	91507.437	2889323.85
L13	91508.913	2889319.985
L14	91512.747	2889316.265

JOHANNESBURG ROADS AGENCY (PTY) LTD  
 PROJECT: WATT STREET BRIDGE/FONTEIN 2017  
 TEL: 011 288 5000  
 2023-07-17  
 SCRUTINIZED: [Signature]  
 DEVELOPMENT PLANNING & CONTROL

**CLIENT'S DETAILS**



3 Helen Joseph  
 NEWTOWN, JOHANNESBURG  
 2000  
 JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
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**DESIGNED**  
 NAME: JK MCHENGE  
 SIGNATURE: [Signature] DATE: 27/06/2023

**DRAWN**  
 NAME: ANN NOKO  
 SIGNATURE: [Signature] DATE: 27/06/2023

**CHECKED**  
 NAME: JK MCHENGE  
 SIGNATURE: [Signature] DATE: 27/06/2023

**DESIGN OFFICE APPROVAL**  
 NAME: JK MCHENGE  
 SIGNATURE: [Signature] DATE: 27/06/2023

**CONTRACT No.**  
 JDA-10-199-A-2022

**PROJECT No.**

**SHEET No.**  
 02 of 05

**PAPER SIZE**  
 A1

**SCALE**

**DATE:**  
 27/06/2023

**LOCATION OF PROJECT**  
 WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
 WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION:**  
 SETTING OUT & MEASUREMENT DRAWING 02

**DRAWING No.**  
 JDA-SD-002-V01-C

**PROJECT STATUS**

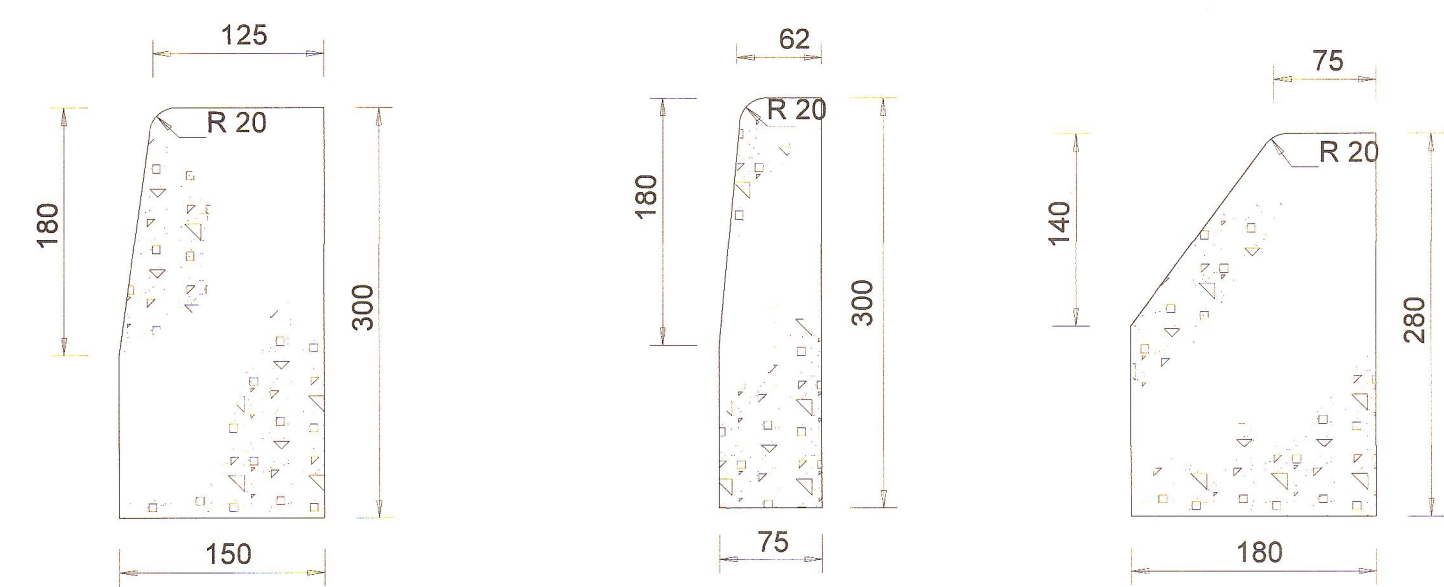
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 DESIGN DEVELOPMENT  
 TENDER DRAWING  
 APPROVED CONSTRUCTION DRAWING  
 AS BUILT DRAWING

**PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):**

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 Prof Reg No: \_\_\_\_\_ DATE: \_\_\_\_\_

**INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:**

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

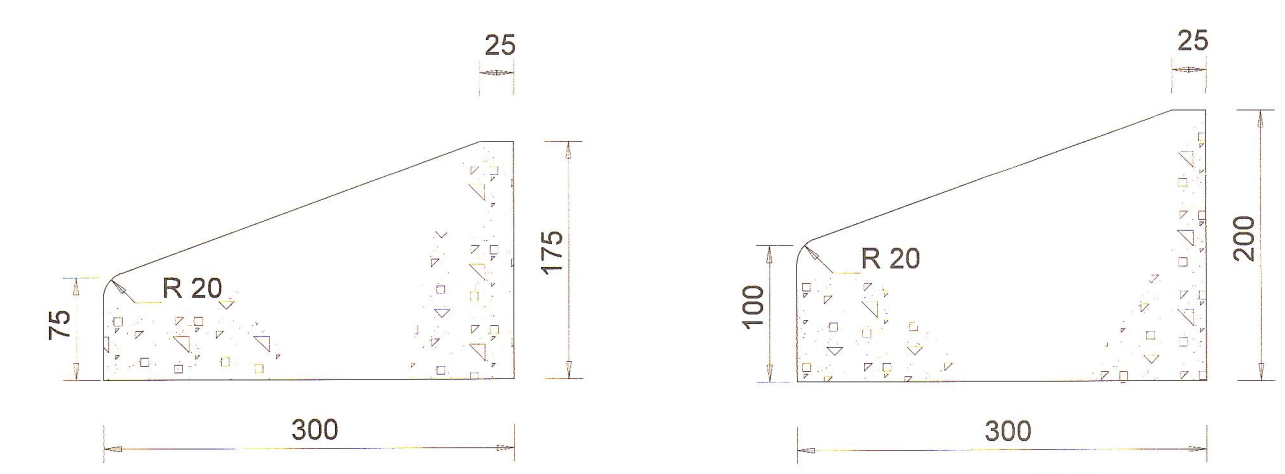


**BARRIER KERB SABS (FIG. 3)**  
Can also be used as mountable kerbs

**RECTANGULAR SABS (FIG. 5)**

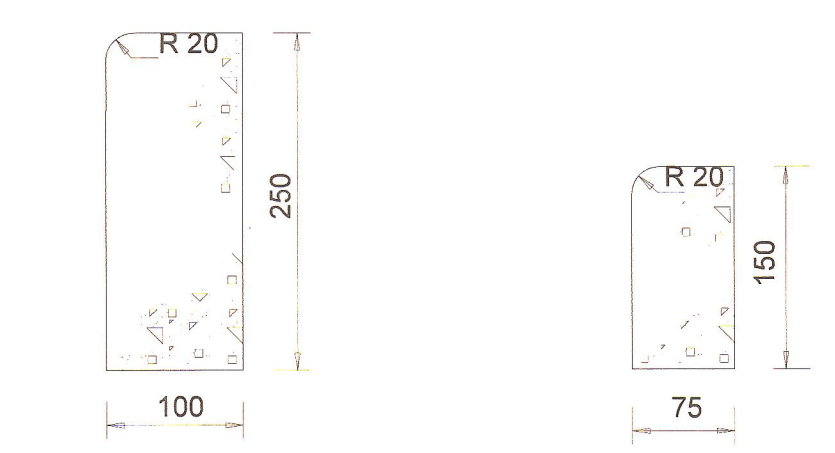
**SEMI-MOUNTABLE KERB SABS (FIG. 7)**  
For use in medians only

- NOTES:**
1. MOUNTABLE KERBS TO BE FIG.8B UNLESS OTHERWISE SPECIFIED
  2. ALL KERB SHAPES AND STRENGTH TO COMPLY WITH SABS 927.
  3. ALL KERBING ON CURVES TO BE CONTINUOUSLY HAUNCHED. KERBS ON STRAIGHT SECTIONS HAUNCHED ONLY AT JOINTS.
  4. REFLECTIVE KERBING TO BE USED WHERE EXTRA SAFETY IS REQUIRED



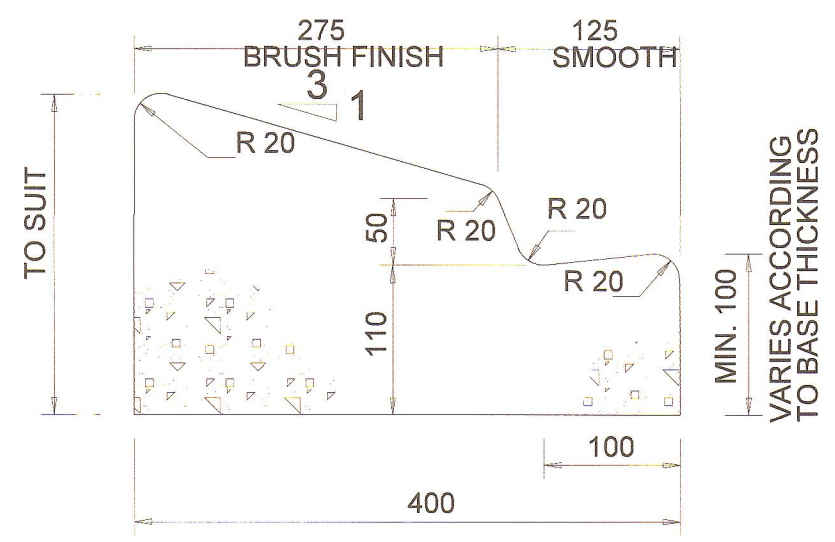
**MOUNTABLE KERB SABS (FIG. 8b)**

**MOUNTABLE KERB SABS (FIG. 8c)**  
Industrial use



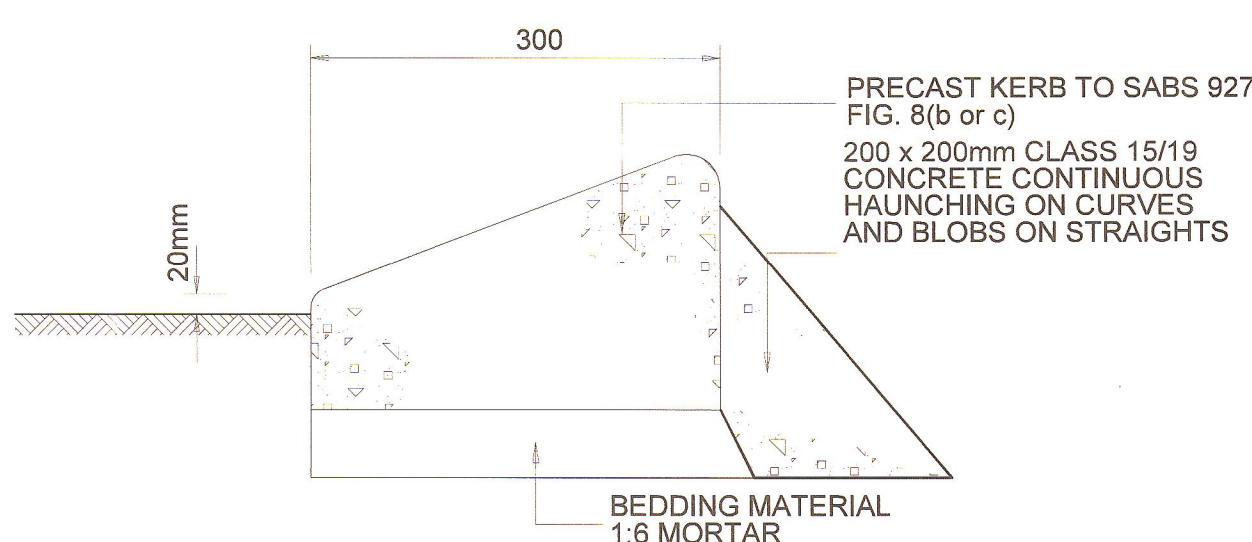
**RECTANGULAR SABS (FIG.10)**  
For high side kerbing in low cost developments

**RECTANGULAR SABS (FIG.12)**  
Edge restraints for paving blocks

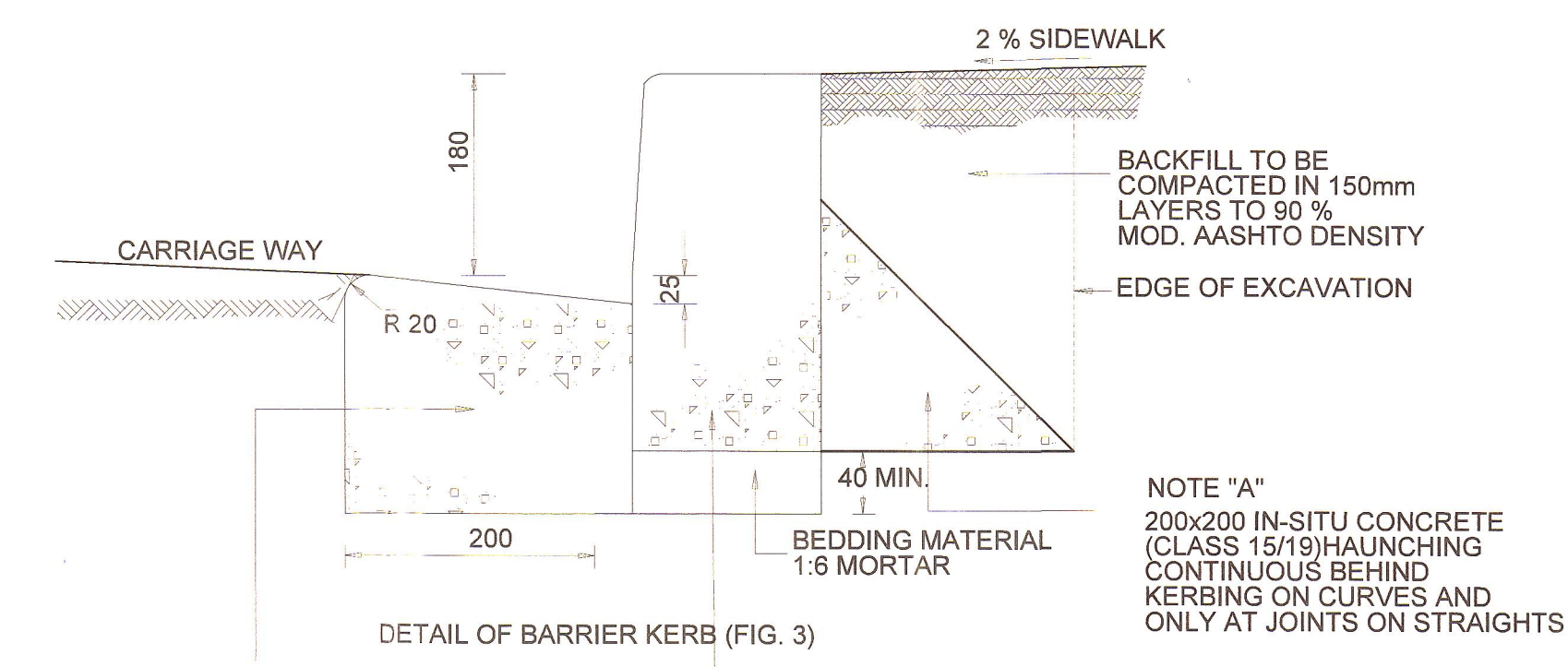


**CAST IN-SITU MOUNTABLE KERB WITH GUTTER**  
Only to be used when no alternative exists

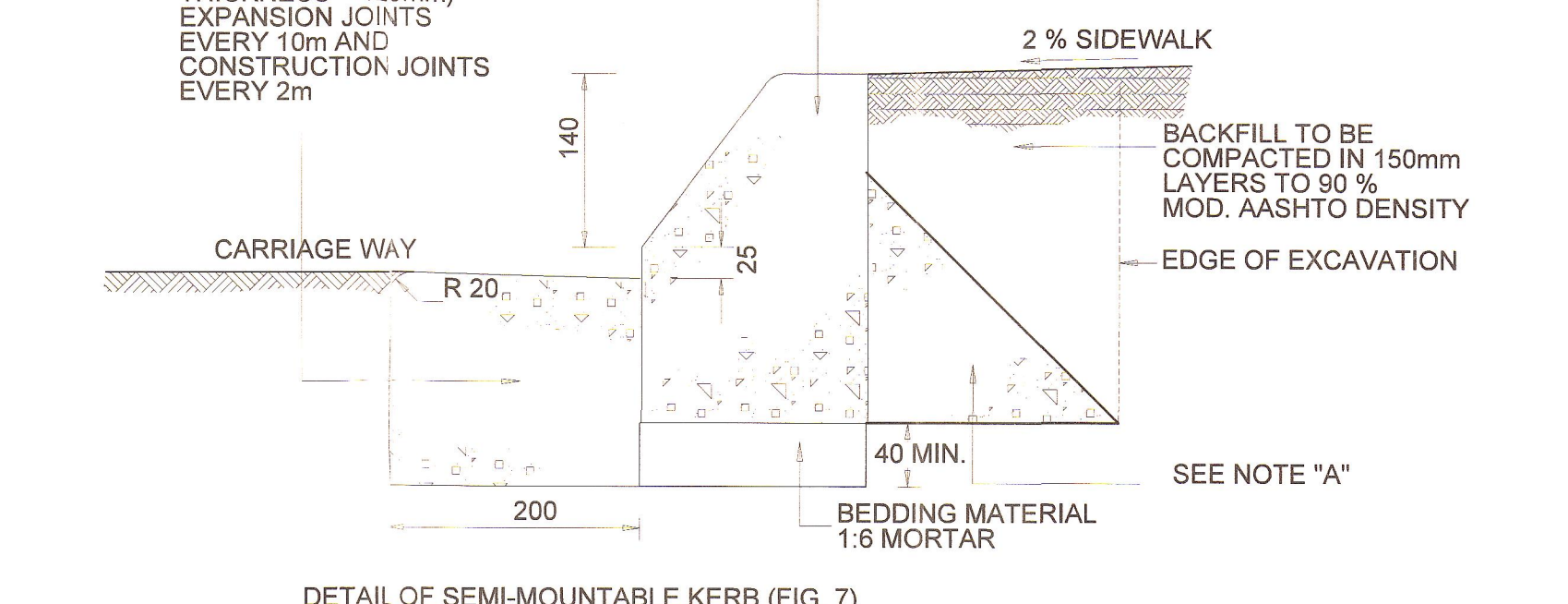
- NOTES**
1. MINIMUM CONCRETE STRENGTH OF ALL CAST IN-SITU KERBS TO BE CLASS 25/19.
  2. CONCRETE CUTTER TO HAVE A STEEL TROWEL FINISH



**PRECAST MOUNTABLE KERB (FIG. 8B OR 8C)**



**DETAIL OF BARRIER KERB (FIG. 3)**



**DETAIL OF SEMI-MOUNTABLE KERB (FIG. 7)**

JOHANNESBURG ROADS AGENCY (PTA) LTD  
2023-07-17  
DEVELOPMENT PLANNING & CONTROL

**CLIENT'S DETAILS**

**JDA**  
Johannesburg Development Agency

3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2000  
JOHANNESBURG DEVELOPMENT AGENCY

**REVISIONS**

NR	DATE	APPROVED	DESCRIPTION	PAR
0	27/06/2023	JKM	ORIGINAL	

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0182  
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**DESIGNED**  
NAME: AMN NODIWA  
SIGNATURE: [Signature] DATE: 27/06/2023

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**CHECKED**  
NAME: JK MOGOSANE  
SIGNATURE: [Signature] DATE: 27/06/2023

**INFORMATION OFFICE CHECKED**  
NAME: TG MOENG  
SIGNATURE: [Signature] DATE: 27/06/2023

**DESIGN OFFICE APPROVAL**  
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**CONTRACT No.**  
JDA.10.198.A.2022

**PROJECT No.**  
-

**SHEET No.**  
01 of 01

**PAPER SIZE**  
A1

**SCALE**  
1:1000

**DATE:**  
27/06/2023

**LOCATION OF PROJECT**  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION.**  
STANDARD SABS KERB DETAILS -1

**DRAWING No.**  
JDA - TD - 002 - V00 - C

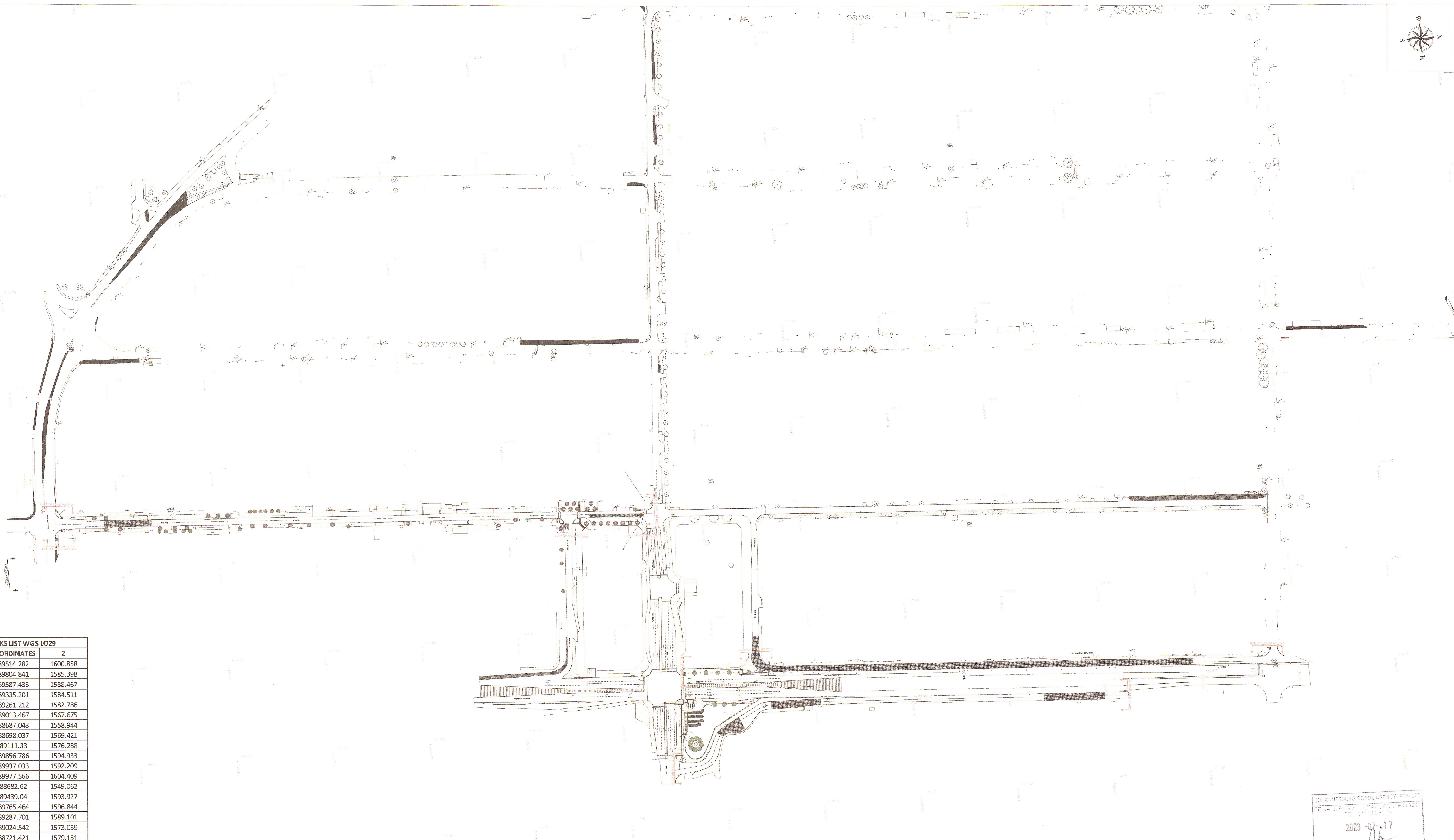
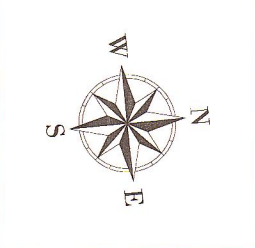
**PROJECT STATUS**

INCEPTION  DESIGN DEVELOPMENT  TENDER DRAWING  APPROVED CONSTRUCTION DRAWING  AS BUILT DRAWING

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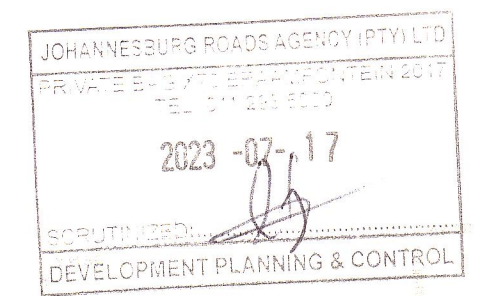
**INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_





WYNBURG BENCHMARKS LIST WGS LO29			
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BM4	92057.776	2889335.201	1584.511
BM5	92049.872	2889261.212	1582.786
BM6	92044.014	2889013.467	1567.675
BM7	92016.942	2888687.043	1558.944
BM8	91852.219	2888698.037	1569.421
BM9	91866.736	2889111.33	1576.288
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GENERAL LAYOUT  
SCALE 1:2000



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**CLIENT'S DETAILS**

3 Helen Joseph  
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**REVISIONS**

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**SHEET No.**  
01 of 01

**PAPER SIZE**  
A1

**SCALE**  
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**LOCATION OF PROJECT**  
WYNBURG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
WATT STREET PRECINCT (WYNBURG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION.**  
GENERAL LAYOUT

**DRAWING No.**  
JDA-GL-001-V001-C

**PROJECT STATUS**

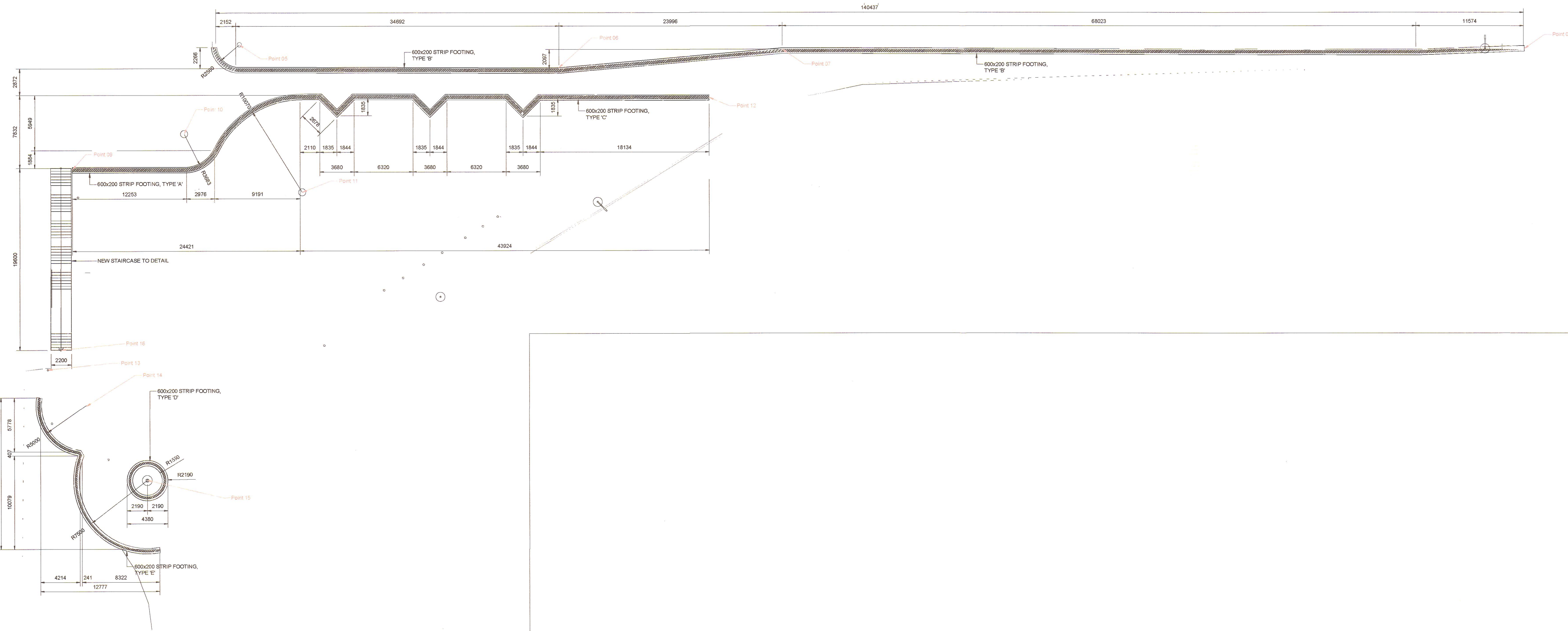
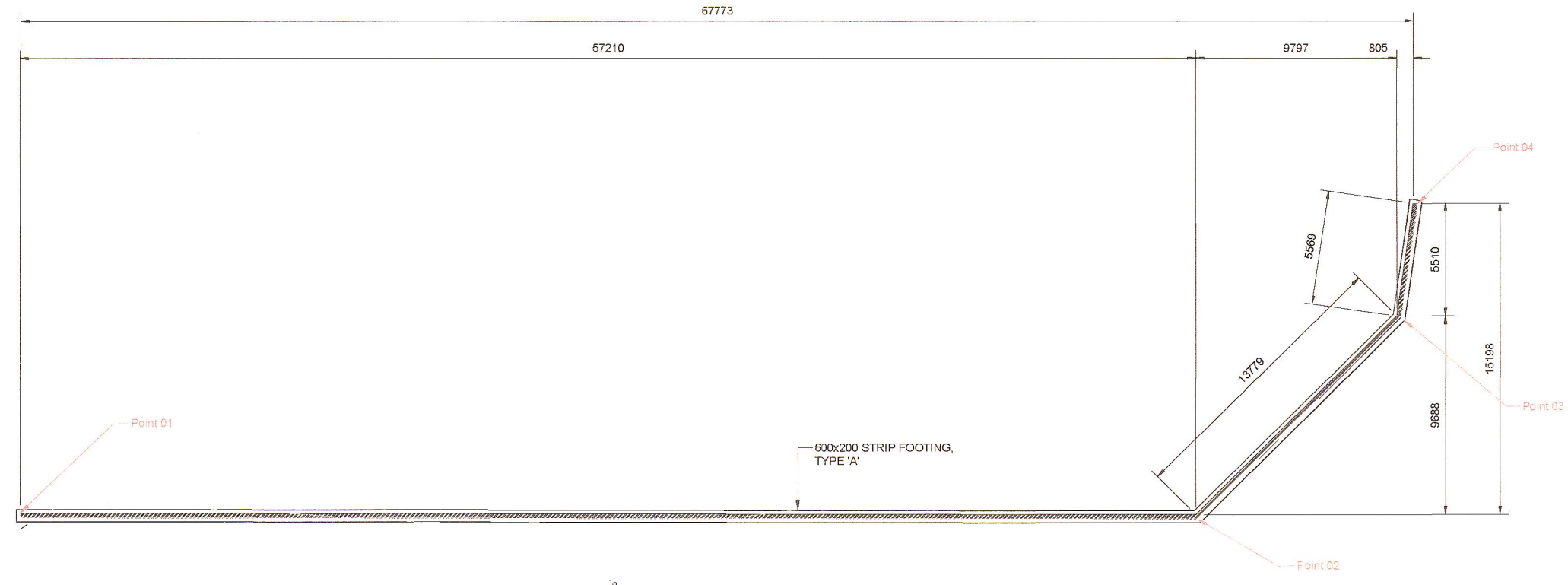
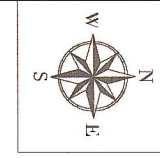
INCEPTION  DESIGN  DEVELOPMENT  TENDER  DRAWING  APPROVED  CONSTRUCTION  DRAWING  AS BUILT  DRAWING

**PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):**

NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Prof Reg No. \_\_\_\_\_ DATE: \_\_\_\_\_

**INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:**

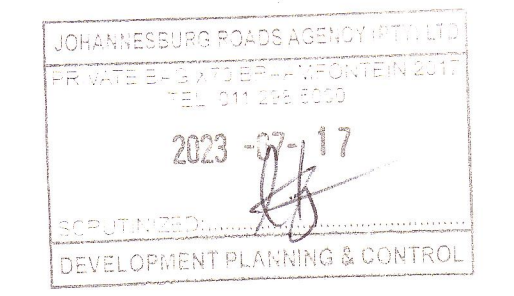
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_



RETAINING WALLS - WALKWAY LAYOUT  
SCALE 1:200

POINTS Coordinate Location		
ID	Y COORDINATES	X COORDINATES
Point 01	91550.599	2889334.343
Point 02	91546.623	2889277.18
Point 03	91555.736	2889266.627
Point 04	91561.251	2889265.437
Point 05	91519.478	2889316.077
Point 06	91514.556	2889282.035
Point 07	91515.03	2889257.976
Point 08	91509.278	2889178.738
Point 09	91507.482	2889334.948
Point 10	91510.318	2889322.63
Point 11	91503.246	2889310.434
Point 12	91510.354	2889266.152
Point 13	91485.973	2889338.97
Point 14	91481.918	2889335.107
Point 15	91473.436	2889329.14
Point 16	91487.895	2889337.438

WYNBURG BENCHMARKS LIST WGS 1029			
ID	Y COORDINATES	X COORDINATES	Z
BM1	91720.799	2889514.282	1600.858
BM2	92074.555	2889804.841	1585.398
BM3	92082.858	2889587.433	1588.467
BM4	92057.776	2889335.201	1584.511
BM5	92049.872	2889281.212	1582.786
BM6	92044.014	2889013.467	1567.675
BM7	92016.942	2888687.043	1558.944
BM8	91852.219	2888698.037	1569.421
BM9	91866.736	2889111.33	1576.288
BM10	91921.25	2889856.786	1594.933
BM11	91940.888	2889937.033	1592.209
BM12	91775.972	2889977.566	1604.409
BM13	92190.739	2888682.62	1549.062
BM14	91890.913	2889439.04	1593.927
BM15	91913.067	2889765.464	1596.844
BM16	91715.401	2889287.701	1589.101
BM17	91689.212	2889024.542	1573.039
BM18	91677.457	2888721.421	1579.131
BM19	91662.991	2888721.251	1579.835
BM20	91504.997	2888727.157	1587.378
BM22	92220.371	2889045.585	1567.097
BM23	92215.295	2888991.291	1564.716



**CLIENT'S DETAILS**

3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
JOHANNESBURG DEVELOPMENT AGENCY

REVISIONS				
NR	DATE	APPROVED	DESCRIPTION	PAR
0	18/05/2023	JKM	ORIGINAL	

**NOTES:**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SABS 1200 STANDARDIZED SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- PRIOR TO THE START OF CONSTRUCTION, ALL SERVICES WHICH ARE TO BE CROSSED MUST BE EXPOSED BY HAND TO CONFIRM THEIR POSITIONS AND LEVELS. ANY DISCREPANCY IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER.
- A FULL SET OF MATERIAL TESTS (COMPACTION, CBR & UCS) REFLECTING COMPLIANCE WITH THE SPECIFICATIONS IS TO BE SUBMITTED TO THE ENGINEER FOR ONWARD TRANSMISSION TO THE EMPLOYER.
- INTERSECTION SERVICES TO BE EXPOSED. POSITIONS RECORDED AND ANY CLASHES IN POSITION WITH THE WORKS TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL MEASUREMENTS ARE IN MILLIMETERS (MM)

**CONSULTANT'S DETAIL**

**KABE CONSULTING ENGINEERS**  
218 Dr VAN DER MERWE DRIVE  
MONTANA PARK  
0182  
Tel: 067 609 0962  
Fax: 066 516 4728  
e-mail: info@kabe.co.za

**DESIGNED**  
NAME: JK MOKGOTLE  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**DRAWN**  
NAME: ANN NDIKWA  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**CHECKED**  
NAME: TG MOENO  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**INFORMATION OFFICE CHECKED**  
NAME: JK MOKGOTLE  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**DESIGN OFFICE APPROVAL**  
NAME: JK MOKGOTLE  
SIGNATURE: [Signature]  
DATE: 27/06/2023

**CONTRACT No.**  
JDA-10.198 A 2022

**PROJECT No.**  
-

**SHEET No.**  
01 of 05

**PAPER SIZE**  
A1

**SCALE**  
-

**DATE:**  
27/06/2023

**LOCATION OF PROJECT**  
WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.

**DESCRIPTION OF PROJECT:**  
WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES

**DRAWING DESCRIPTION:**  
SETTING OUT & MEASUREMENT DRAWING 01

**DRAWING No.**  
JDA-SD-001-V01-C

**PROJECT STATUS**

INCEPTION  DESIGN  TENDER DRAWING  APPROVED CONSTRUCTION DRAWING  AS BUILT DRAWING

**PROJECT ENGINEER of JOHANNESBURG DEVELOPMENT AGENCY (JDA):**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Prof Reg No.: \_\_\_\_\_ DATE: \_\_\_\_\_

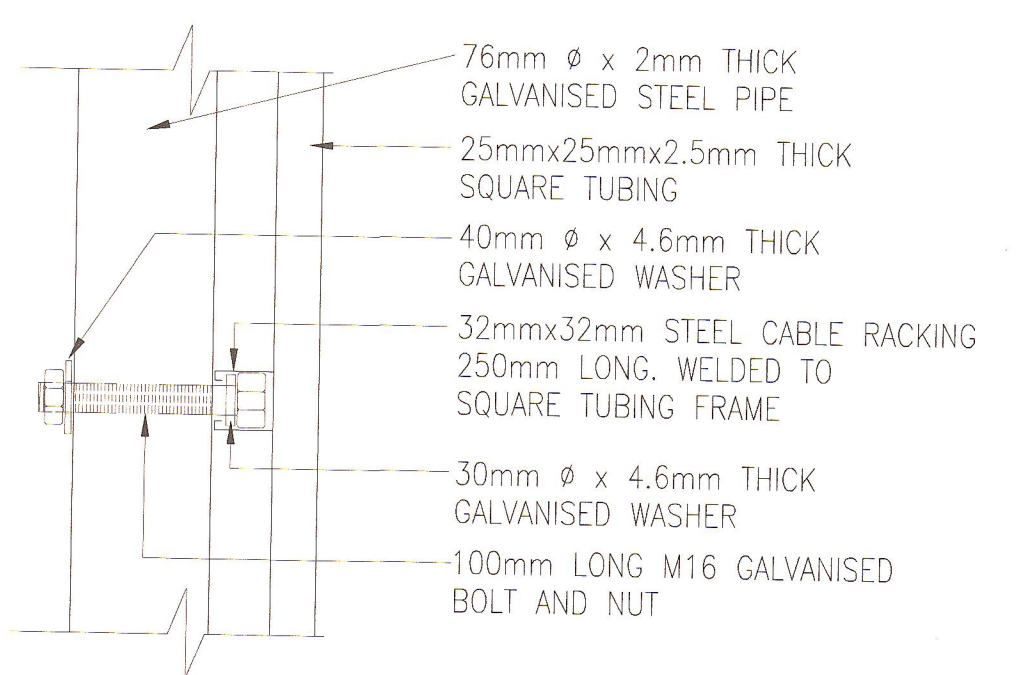
**INSPECTOR OF WORKS of JOHANNESBURG DEVELOPMENT AGENCY:**  
NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

NOTES:

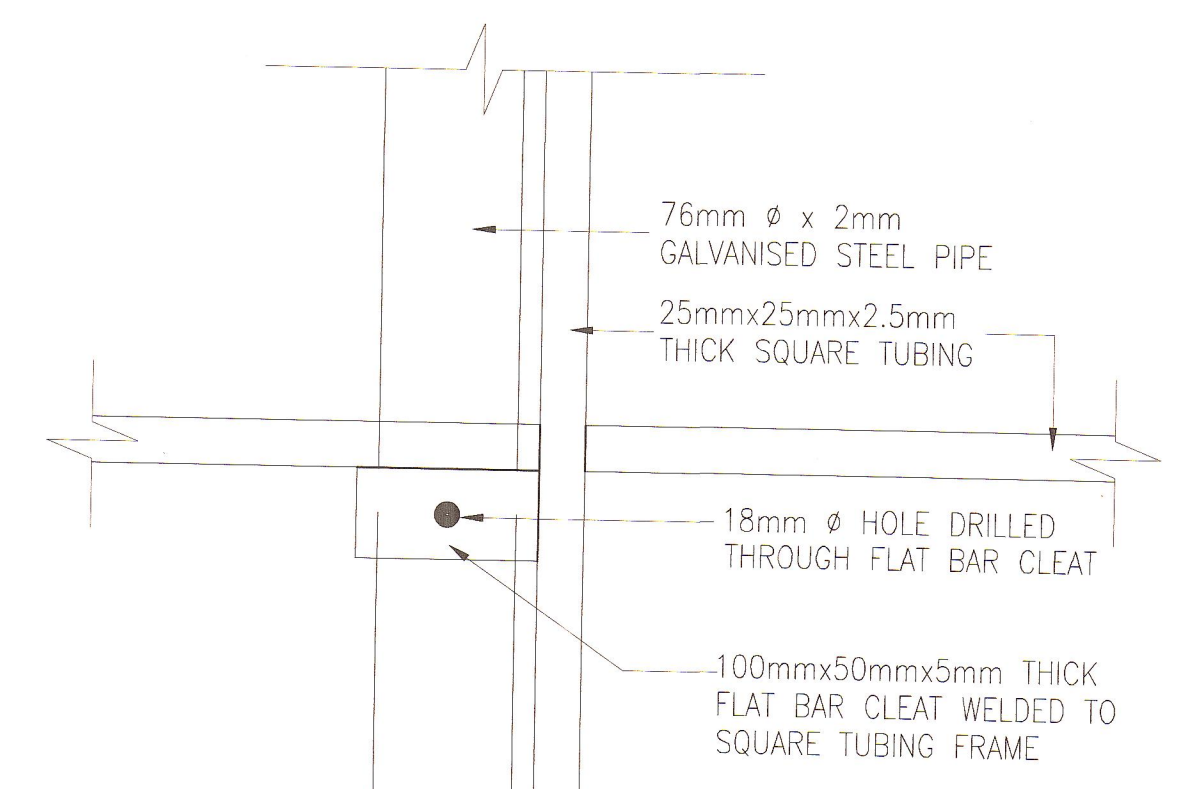
- ALL EMBLEMS ARE TO BE OBTAINED BY THE CONTACTOR AND DISPLAYED IN FULL COLOUR.
- THE EMBLEMS OF THE FEDERATION OF CIVIL ENGINEERING CONTRACTORS AND THE ASSOCIATION OF CONSULTING ENGINEERS MAY ONLY BE USED IF THE CONTRACTOR / CONSULTANT IS A REGISTERED MEMBER. NO OTHER EMBLEM MAY BE USED IN LIEU THEREOF.
- M16 x 100mm GALVANISED BOLTS AND NUTS FOR FIXING OF NAME BOARD TO GALVANISED STEEL PIPES. (FIXING DETAIL 1)
- M16 x 100mm GALVANISED BOLTS AND NUTS FOR FIXING OF NAME BOARD TO GALVANISED STEEL PIPES. (FIXING DETAIL 2)
- LOCATION OF PROJECT NAME BOARD TO BE IN ACCORDANCE WITH THE ENGINEERS INSTRUCTIONS.
- FOR FIXING DETAIL 2 THE CENTRE LINES OF THE 76mm Ø STEEL PIPES WILL BE < 1800mm APART.

COLOUR IDENTIFICATION :

- OXFORD BLUE BS 381(c) OF 1964 COLOUR 105
- SMOKEY GREY BS 381(c) OF 1964 COLOUR 692
- UNCOATED : JW22 (RED)
- COATED : PMS 199C (RED)

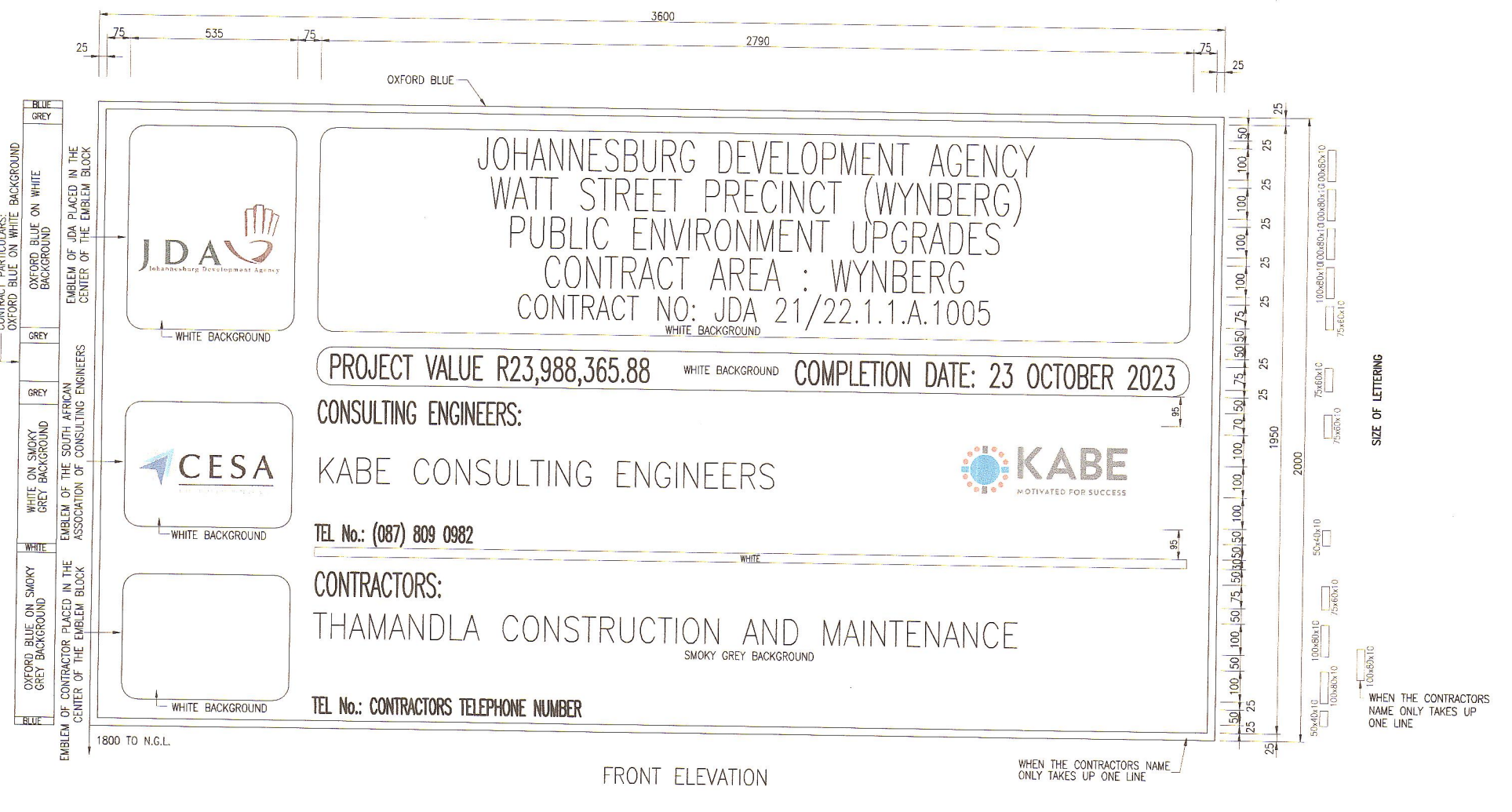


FIXING DETAIL 1

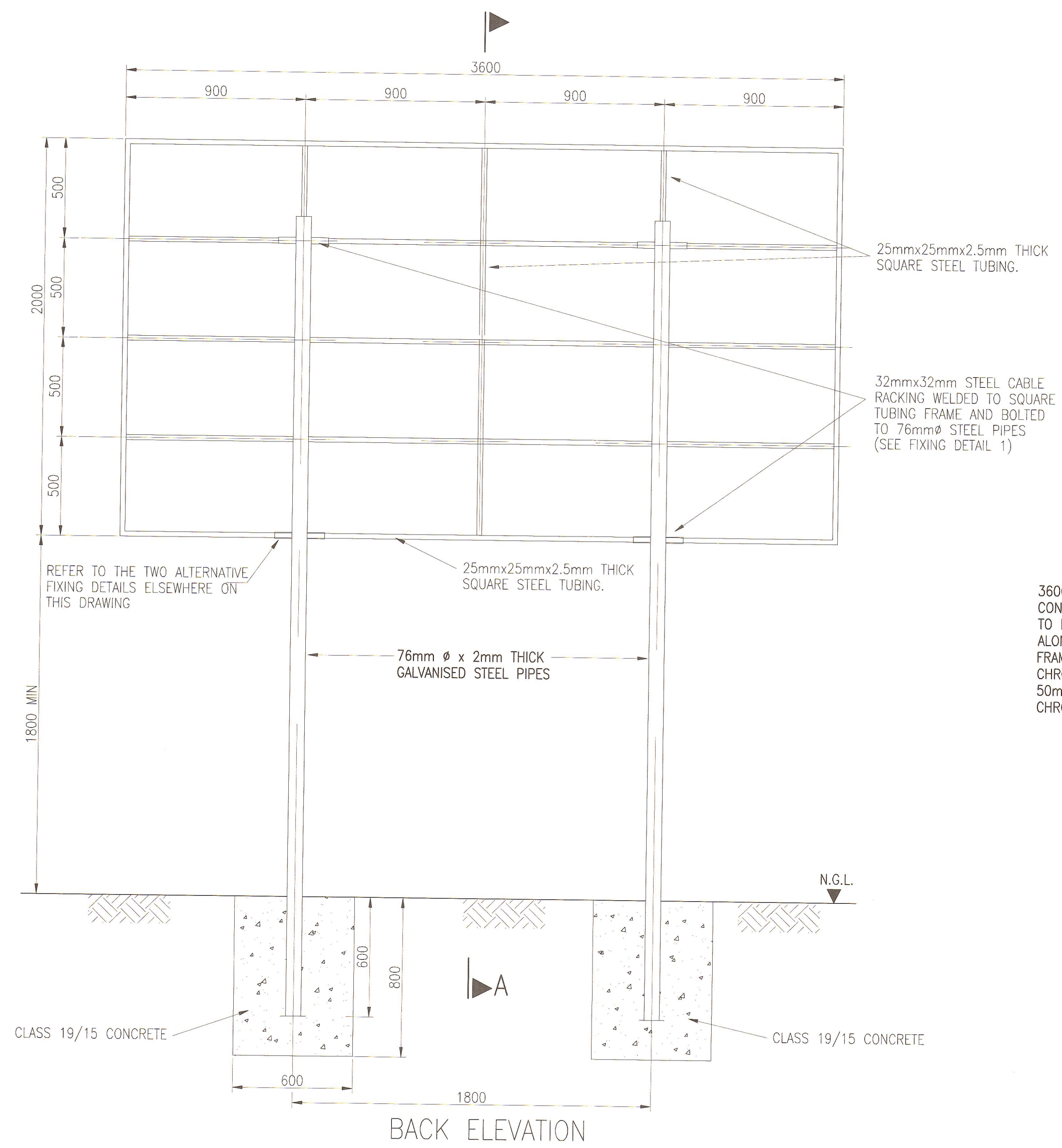


FIXING DETAIL 2

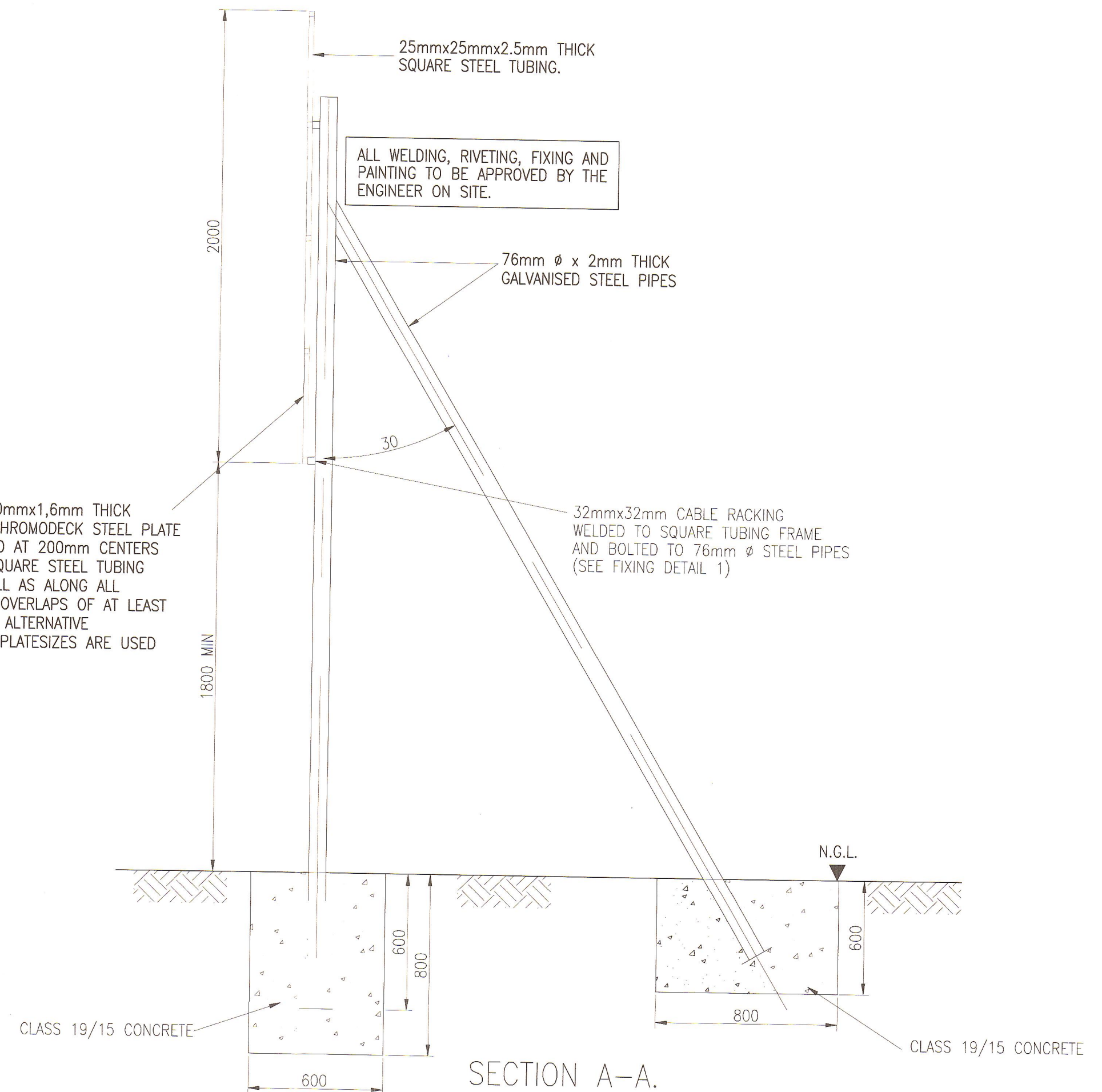
ALTERNATIVE FIXING DETAILS



FRONT ELEVATION



BACK ELEVATION



SECTION A-A.



**CLIENT'S DETAILS**

Johannesburg Development Agency  
3 Helen Joseph  
NEWTOWN, JOHANNESBURG  
2000  
JOHANNESBURG DEVELOPMENT AGENCY

**REVISIONS**

NR	DATE	APPROVED	DESCRIPTION	PAR
0	27/06/2023	JKM	ORIGINAL	

**NOTES:**

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0182  
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e-mail: info@kabe.co.za

**DESIGNED**  
NAME: AMN NDIWA  
SIGNATURE: [Signature] DATE: 27/06/2023

**DRAWN**  
NAME: AMN NDIWA  
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**CHECKED**  
NAME: JK MOENG  
SIGNATURE: [Signature] DATE: 27/06/2023

**INFORMATION OFFICE CHECKED**  
NAME: TG MOENG  
SIGNATURE: [Signature] DATE: 27/06/2023

**DESIGN OFFICE APPROVAL**  
NAME: JK MOENG  
SIGNATURE: [Signature] DATE: 27/06/2023

<b>CONTRACT No.</b> JDA.10.198.A.2022	<b>LOCATION OF PROJECT</b> WYNBERG, CITY OF JOHANNESBURG, REGION E OF METRO.
<b>PROJECT No.</b> -	<b>DESCRIPTION OF PROJECT:</b> WATT STREET PRECINCT (WYNBERG) PUBLIC ENVIRONMENT UPGRADES
<b>SHEET No.</b> 01 of 01	<b>DRAWING DESCRIPTION.</b> CONTRACT NAMEBOARD
<b>PAPER SIZE</b> A1	<b>DRAWING No.</b> JDA - TD - 003 - V00 - C
<b>SCALE</b> N.T.S	
<b>DATE:</b> 27/06/2023	

**PROJECT STATUS**

INCEPTION  DESIGN DEVELOPMENT  TENDER DRAWING  APPROVED CONSTRUCTION DRAWING  AS BUILT DRAWING

**PROJECT ENGINEER OF JOHANNESBURG DEVELOPMENT AGENCY (JDA):**

NAME	SIGNATURE
Prof Reg No.	DATE

**INSPECTOR OF WORKS OF JOHANNESBURG DEVELOPMENT AGENCY:**

SIGNATURE
DATE