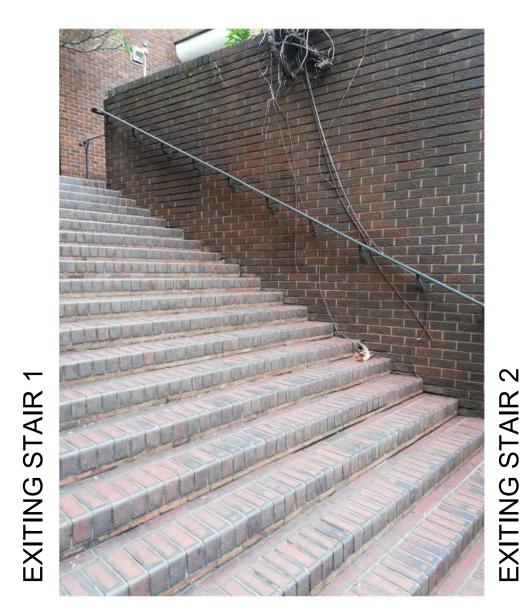


SCHEDULE OF NEW HANDRAILS AND BALUSTARDES

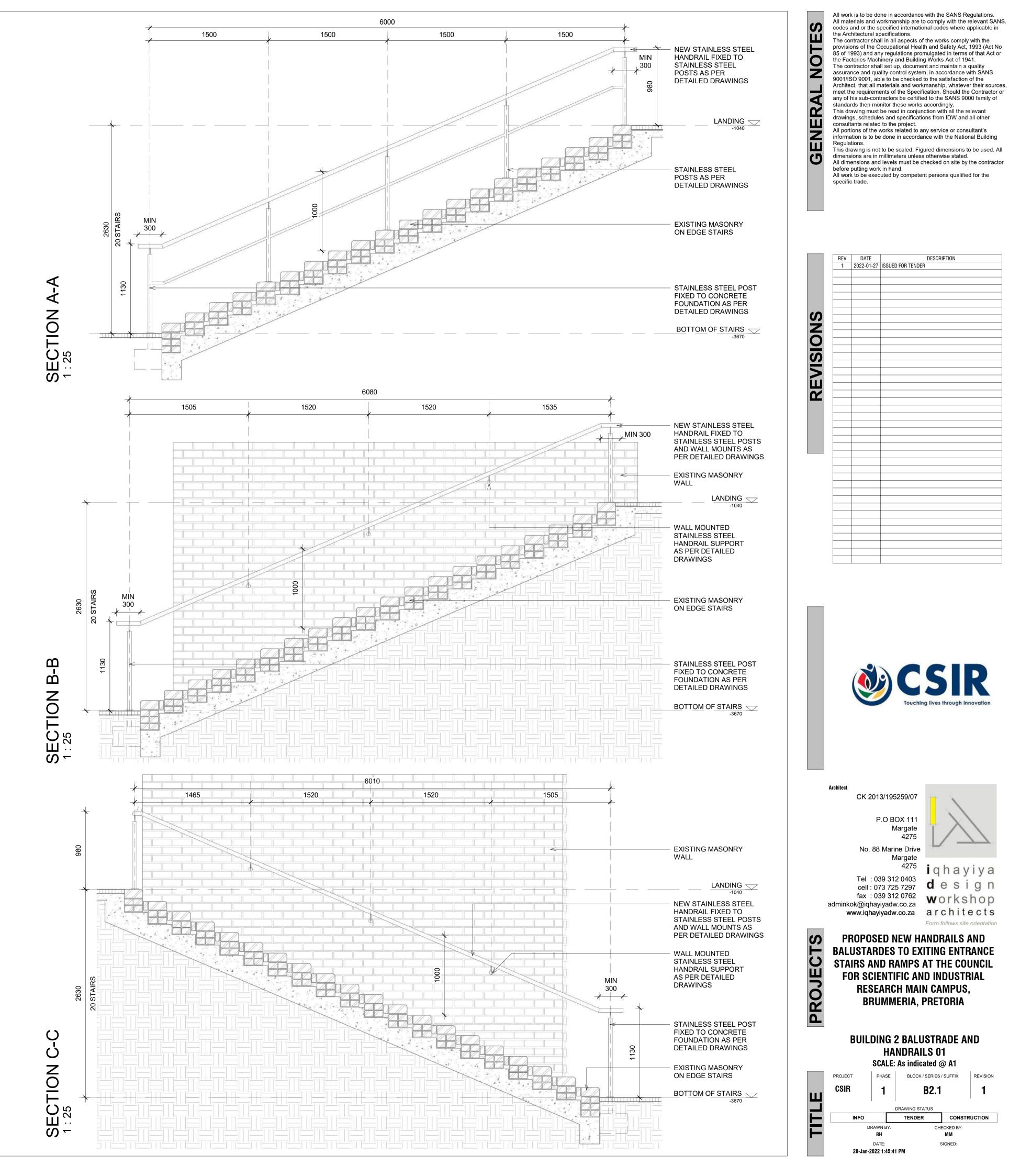
24				
STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT
	LEFT	HANDRAIL	STAINLESS STEEL	6.9m
ENTRANCE OPPOSITE NORTH GATE	CENTRAL	BALUSTARDE	STAINLESS STEEL	6.8m
	RIGHT	HANDRAIL	STAINLESS STEEL	6.9m
	LEFT	HANDRAIL	STAINLESS STEEL	2.9m
ABSA ENTRANCE	CENTRAL	BALUSTARDE	STAINLESS STEEL	2.9m
	RIGHT	HANDRAIL	STAINLESS STEEL	2.9m
1				3Q.

TOTAL NEW BALUSTARDES	9.7m
TOTAL NEW HANDRAILS	19.6m

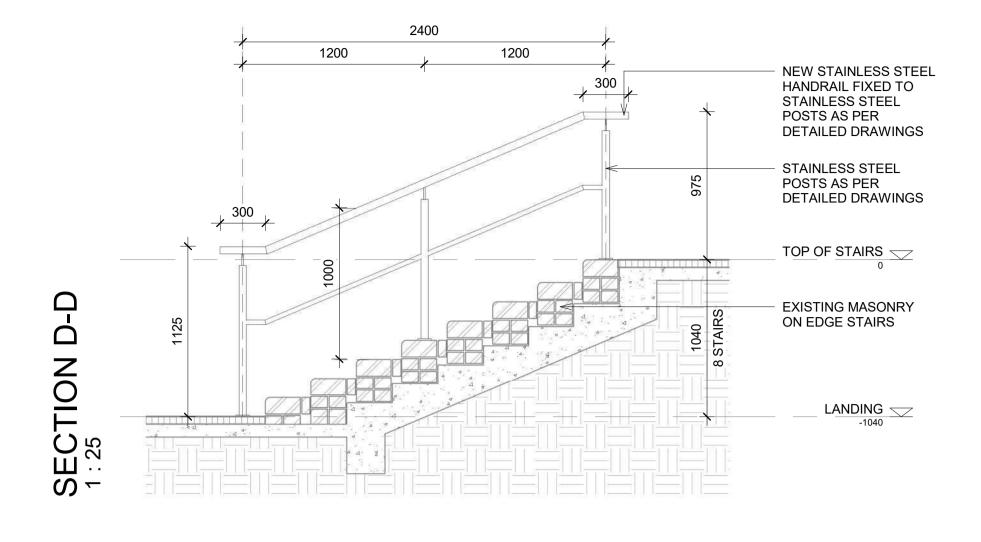


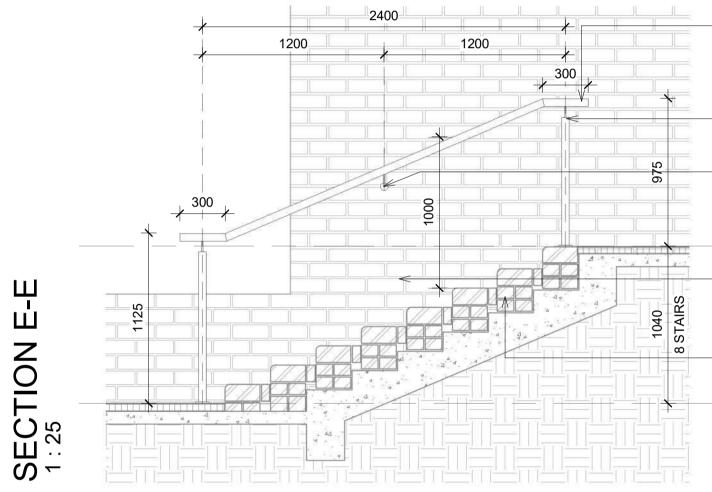


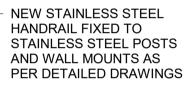
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BUILDING 2:







WALL MOUNTED STAINLESS STEEL HANDRAIL SUPPORT

EXISTING MASONRY

EXISTING MASONRY ON EDGE STAIRS

Landing 💬

DRAWINGS

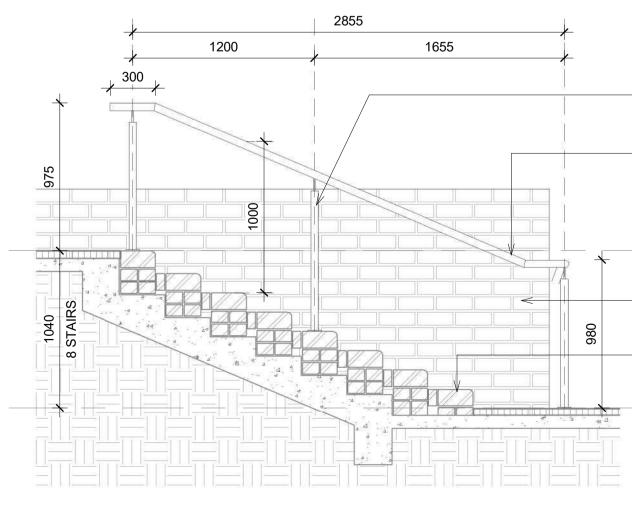
AS PER DETAILED

STAINLESS STEEL DETAILED DRAWINGS

POSTS AS PER

WALL

LĻ L SECTION 1:25



HANDRAIL FIXED TO STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS

STAINLESS STEEL

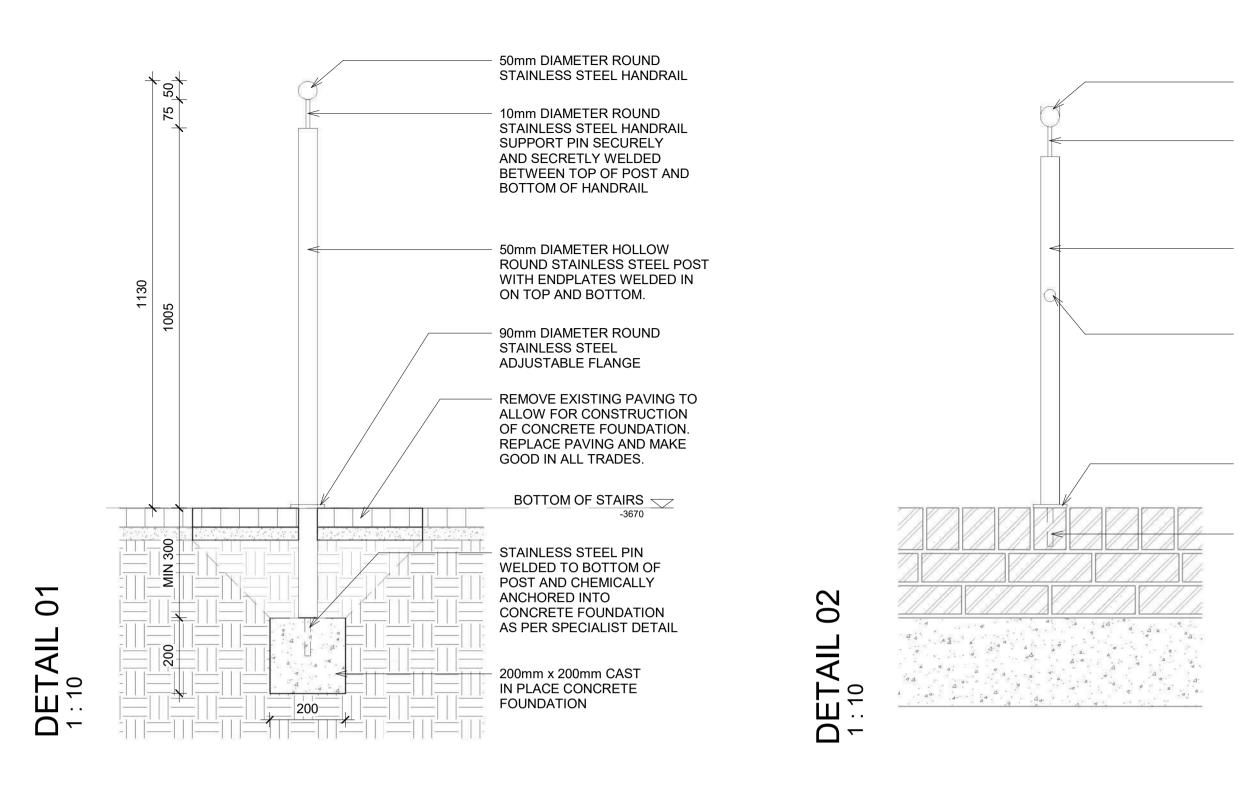
DETAILED DRAWINGS

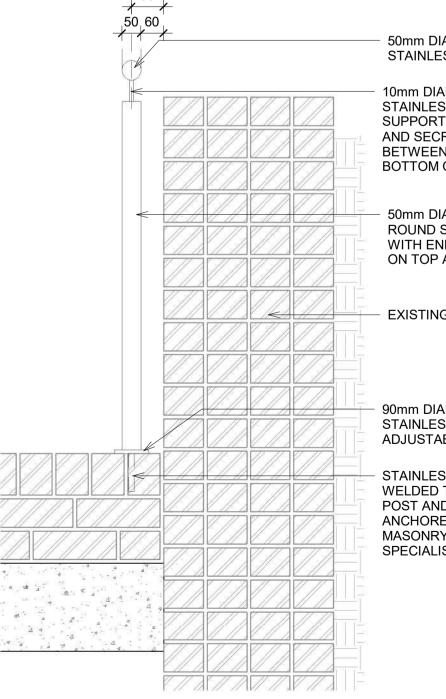
NEW STAINLESS STEEL

POSTS AS PER

EXISTING MASONRY WALL

EXISTING MASONRY ON EDGE STAIRS





85



10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

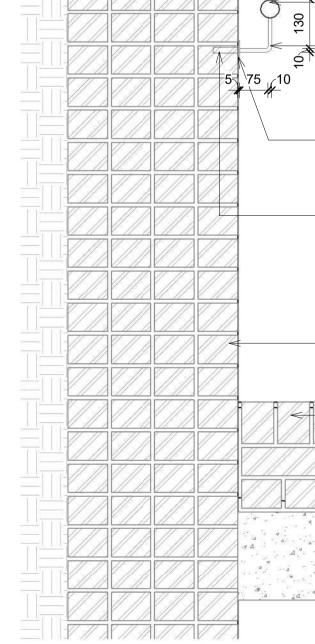
EXISTING MASONRY WALL

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING MASONRY STAIRS AS PER SPECIALIST DETAIL

04

TAIL 10



03 TAIL ₀

50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING MASONRY STAIRS AS PER SPECIALIST DETAIL

- 50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN SIDE OF PLATE AND BOTTOM OF HANDRAIL 50mm DIAMETER ROUND STAINLESS STEEL FLANGE, MOUNTED FLUSH WITH WALL

STAINLESS STEEL PIN WELDED TO BACK OF FLANGE AND CHEMICALLY ANCHORED INTO EXISTING MASONRY WALL AS PER SPECIALIST DETAIL

EXISTING MASONRY WALL

EXISTING MASONRY STAIRS

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P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za

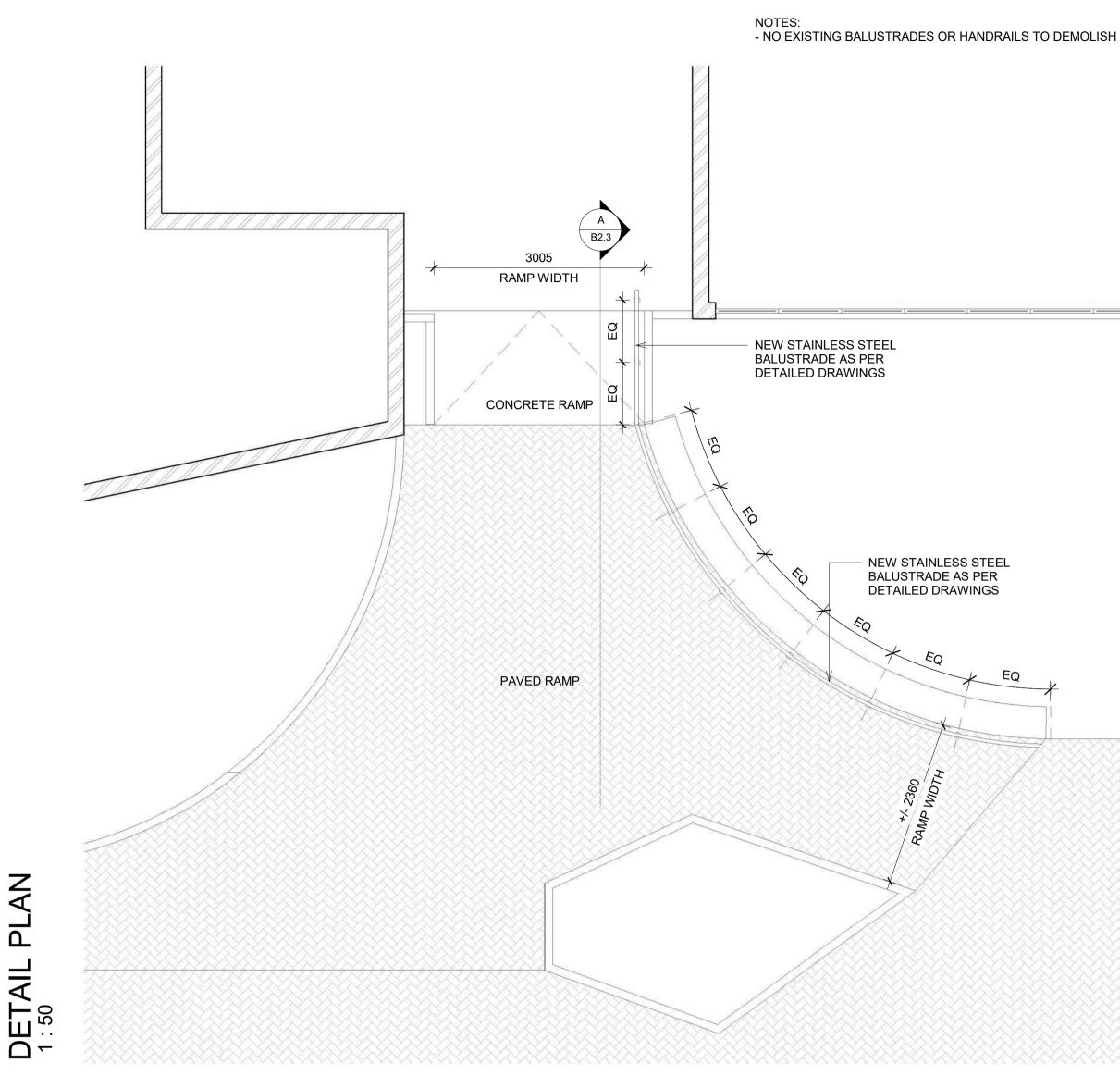


⁴²⁷⁵ iqhayiya design workshop www.iqhayiyadw.co.za architects Form follows site orientation

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BUILDING 2 BALUSTRADE AND HANDRAILS 02 SCALE: As indicated @ A1							
PROJECT	PHA	SE	BLOCK / SERIES	/ SUFFIX	REVISION		
CSIR 1			B2.2		1		
			DRAWING STATUS				
INFO			TENDER	CONSTR	UCTION		
DRAWN B		BY:	CHI	ECKED BY:			
DATE: 28-Jan-2022 1:4				SIGNED:			

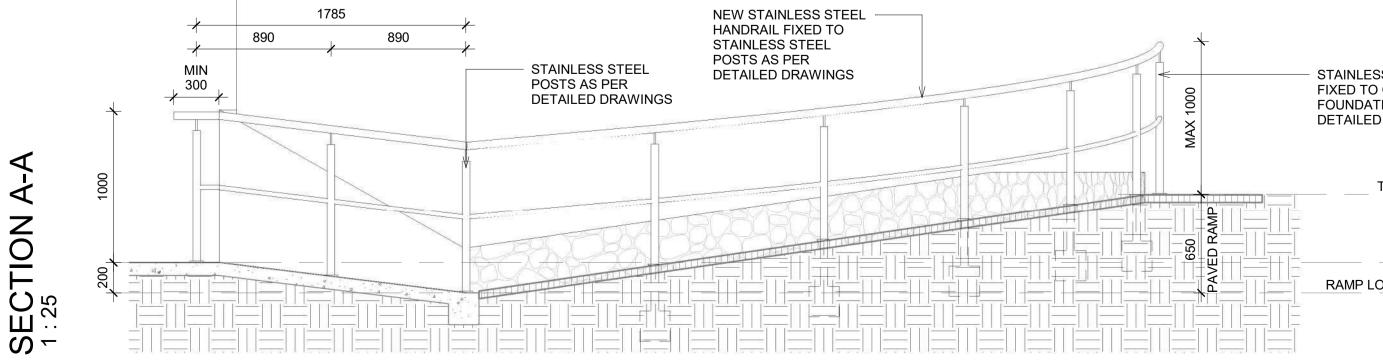
BUILDING 2: RECEPTION



SCHEDULE OF NEW HANDRAILS AND BALUSTARDES

RAMP TO RECEPTION RIGHT BALUSTARDE STAINLESS STEEL 9.4	STAIR LOCATION:	POSITION ON RAMP:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL L
	RAMP TO RECEPTION	RIGHT	BALUSTARDE	STAINLESS STEEL	9.0

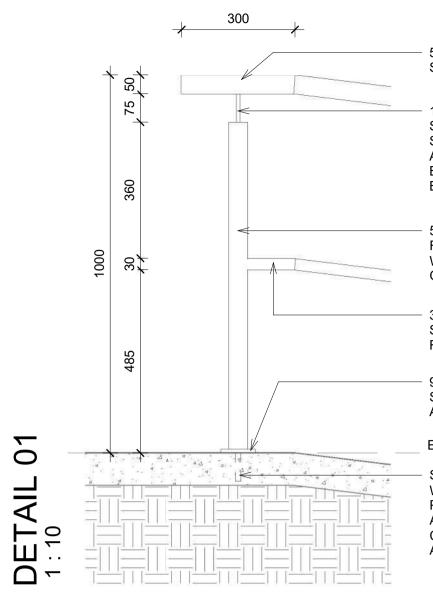
TOTAL NEW BALUSTARDES



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50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING CONCRETE SURFACE BED AS PER SPECIALIST DETAIL



10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

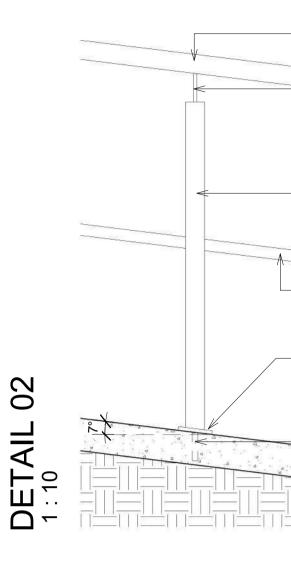
30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL

200mm x 200mm CAST IN PLACE CONCRETE FOUNDATION







9.6m

 STAINLESS STEEL POST
FIXED TO CONCRETE
FOUNDATION AS PER DETAILED DRAWINGS

03

DETAIL 1:10

AMP Ŕ XITING



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

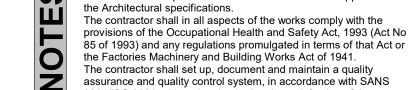
10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND **BOTTOM OF HANDRAIL**

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE TO ALLOW FOR FLUSH FIXING TO RAMP

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING CONCRETE SURFACE BED AS PER SPECIALIST DETAIL



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assurance and quality control system, in accordance with SANS 9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or any of his sub-contractors be certified to the SANS 9000 family of standards then monitor these works accordingly.

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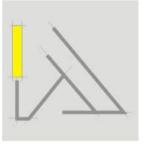
REV	DATE	DESCRIPTION
1	2022-01-27	ISSUED FOR TENDER



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4275 Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects

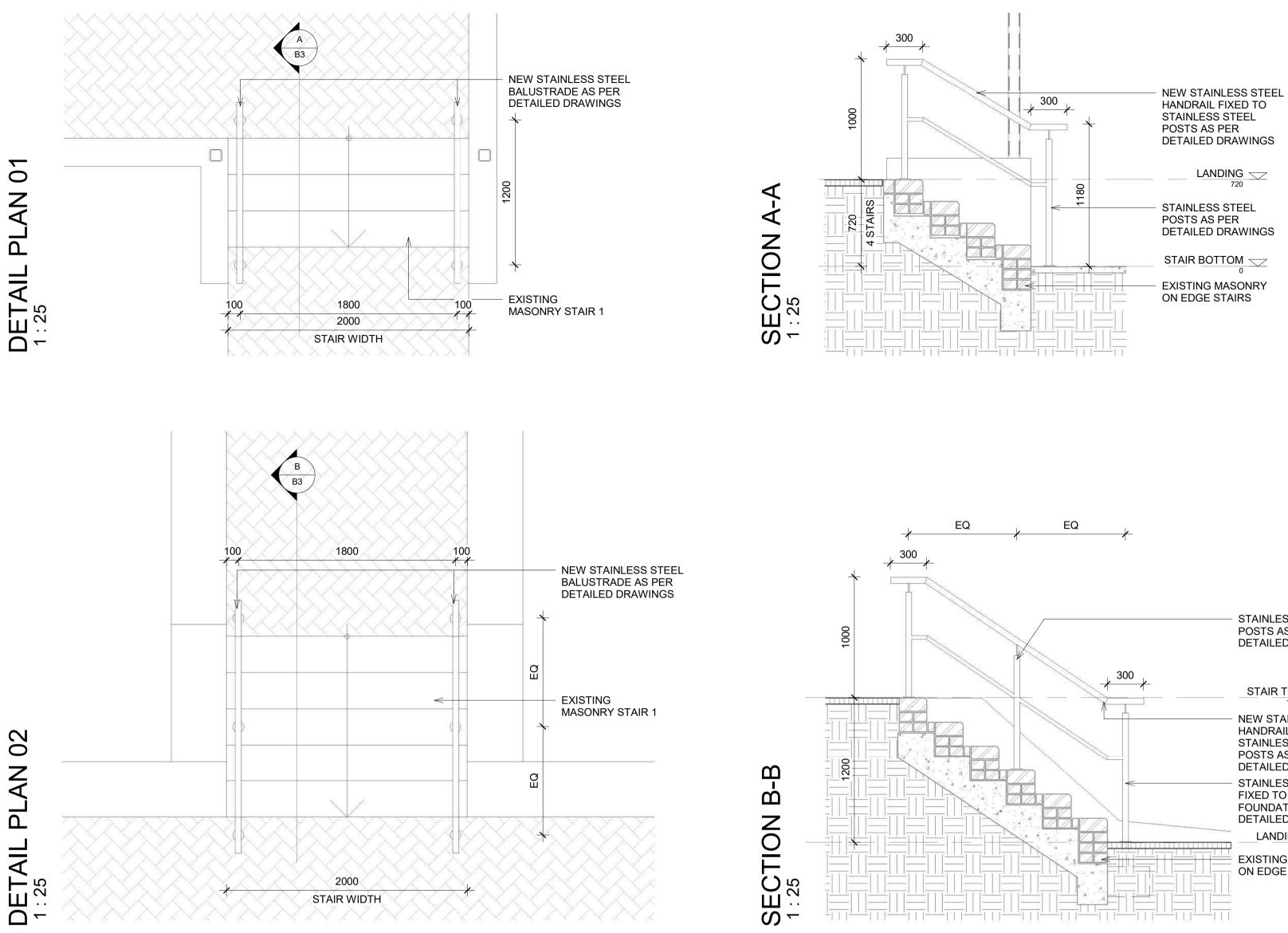


iqhayiya esign a workshop Form follows site orientation

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	BUILDING 2 BALUSTRADE AND HANDRAILS 03 SCALE: As indicated @ A1								
	PROJECT	PHAS	SE	BLOCK / SERIES	/ SUFFIX	REVISION			
IJ	CSIR	1		B2.3		1			
	DRAWING STATUS								
	INFO			TENDER	CONSTR	UCTION			
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DATI 28-Jan-2022			47:2 ⁻	-	SIGNED:				

BUILDING 3:

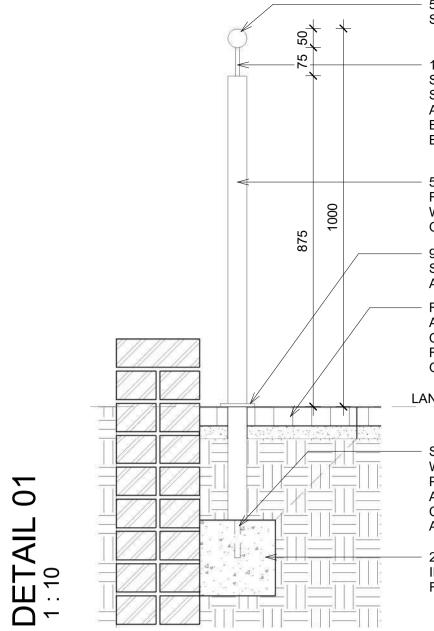


NOTES: - EXISTING BALUSTRADE IN THE MIDDLE OF STAIR 02 TO BE DEMOLISED AND STRUCTURE TO BE MADE GOOD IN ALL TRADES

PROPOSED NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
	LEFT	BALUSTRADE	STAINLESS STEEL	2.4m
ENTRANCE FROM PARKING	RIGHT	BALUSTRADE	STAINLESS STEEL	2.4m
BUILDING ENTRANCE	LEFT	BALUSTRADE	STAINLESS STEEL	1.7m
	RIGHT	BALUSTRADE	STAINLESS STEEL	1.7m

TOTAL NEW BALUSTARDES



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL 10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL 50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM. 90mm DIAMETER ROUND STAINLESS STEEL

ADJUSTABLE FLANGE REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL

200mm x 200mm CAST IN PLACE CONCRETE FOUNDATION

50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

Landing 💬

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM. 90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

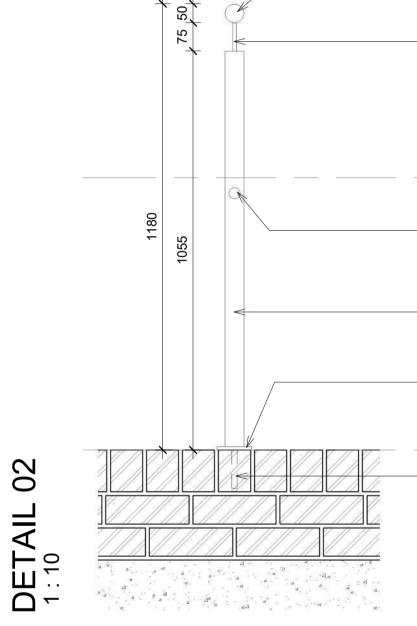
STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING MASONRY STAIRS AS PER SPECIALIST DETAIL

STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS

STAIR TOP

NEW STAINLESS STEEL HANDRAIL FIXED TO STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS STAINLESS STEEL POST FIXED TO CONCRETE FOUNDATION AS PER DETAILED DRAWINGS

EXISTING MASONRY ON EDGE STAIRS



8.2m



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All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications.

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P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

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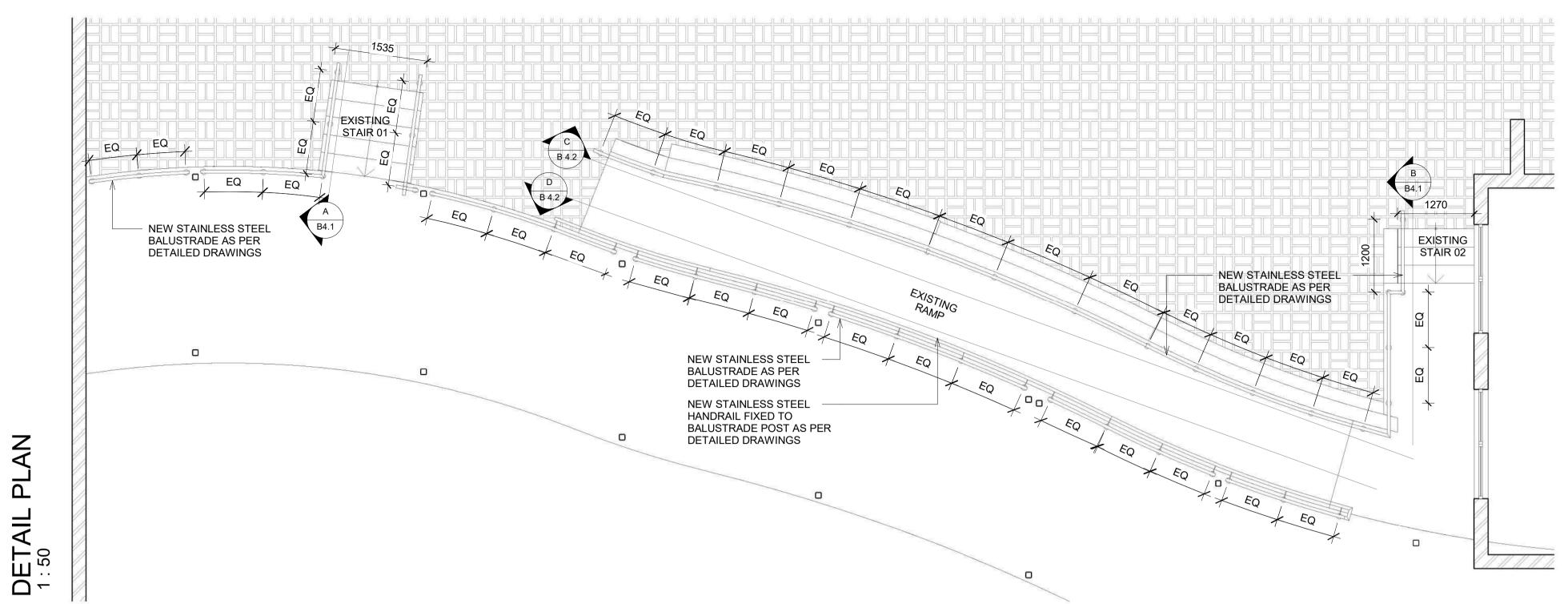
PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

BUILDING 3 BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1 PHASE BLOCK / SERIES / SUFFIX REVISION PROJECT CSIR **B**3 DRAWING STATUS CONSTRUCTION TENDER INFO

CHECKED BY DRAWN BY BH MM DATE: 28-Jan-2022 1:48:42 PM

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BUILDING 4: LINK



SCHEDULE OF NEW HANDRAILS AND BALUSTARDES

			70.	21
STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	то
RAMP	LEFT	BALUSTARDE	STAINLESS STEEL	
KAWF	RIGHT	HANDRAIL	STAINLESS STEEL	
WALKWAY	RIGHT	BALUSTARDE	STAINLESS STEEL	
WALKWAY STAIRS	LEFT	BALUSTARDE	STAINLESS STEEL	
WALKWAT STAIKS	RIGHT	BALUSTARDE	STAINLESS STEEL	
SIDE STAIR	RIGHT	BALUSTARDE	STAINLESS STEEL	

TOTAL NEW BALUSTARDES	
TOTAL NEW HANDRAILS	

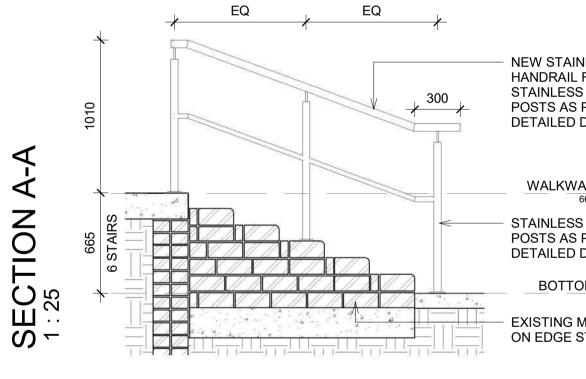


STAIR EXITING



OTAL LENGHT: 13.6m 13.8m 20.2m 2.0m 2.0m 4.1m

41.9m	
13.8m	



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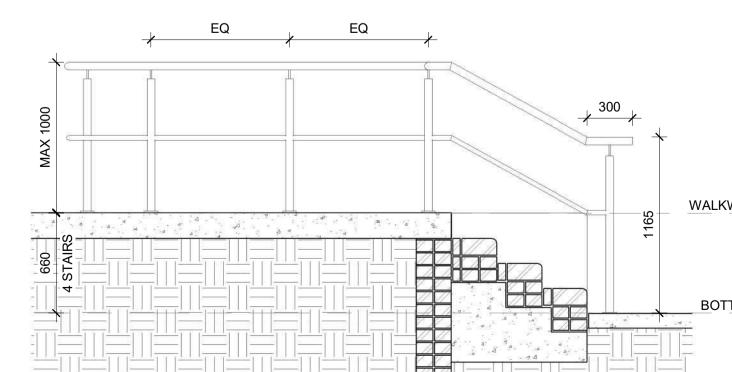
SECTION | 1:25

 NEW STAINLESS STEEL
HANDRAIL FIXED TO
STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS

STAINLESS STEEL

POSTS AS PER DETAILED DRAWINGS

EXISTING MASONRY ON EDGE STAIRS



NOTES: - EXISTING BALUSTRADE IN THE MIDDLE OF STAIR 01 TO BE DEMOLISED AND STRUCTURE TO BE MADE GOOD IN ALL TRADES

All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications.



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Architect

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⁴²⁷⁵ iqhayiya Form follows site orientation



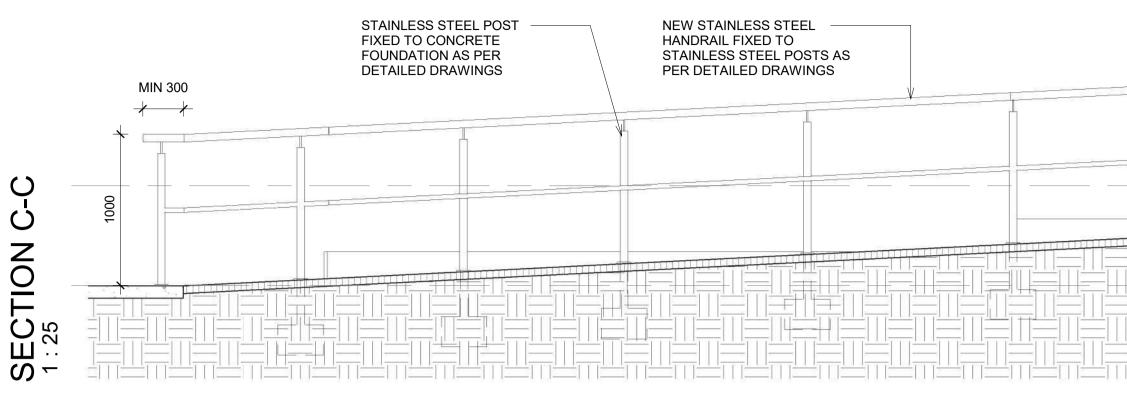
PROPOSED NEW HANDRAILS AND **BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL** FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

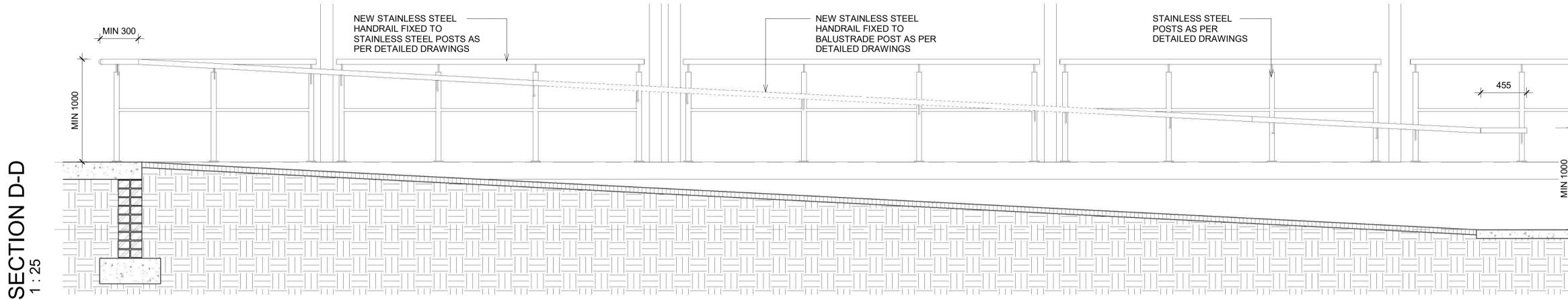
BUILDING 4 BALUSTRADE AND HANDRAILS 01 SCALE: As indicated @ A1							
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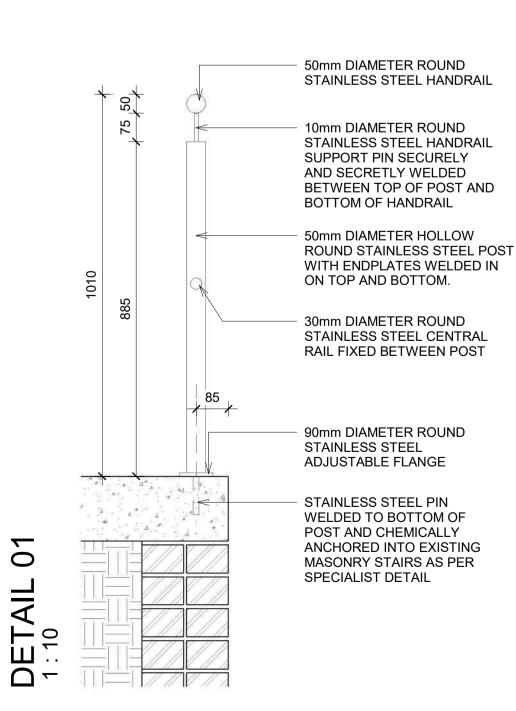
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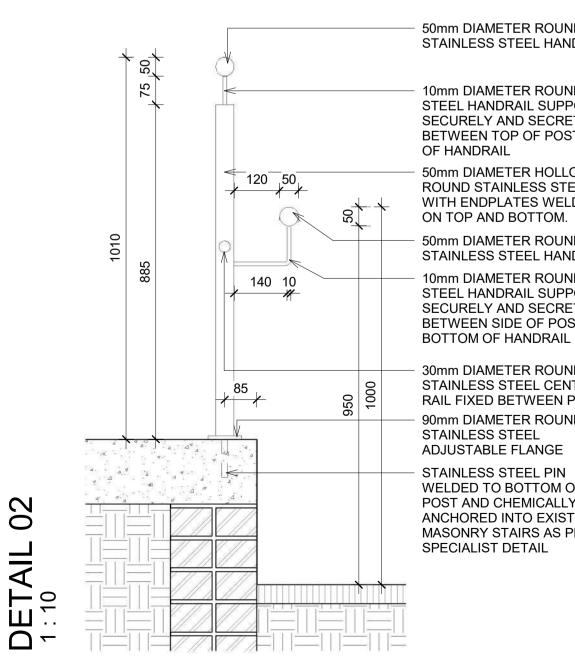
WALKWAY 📩

BUILDING 4: LINK







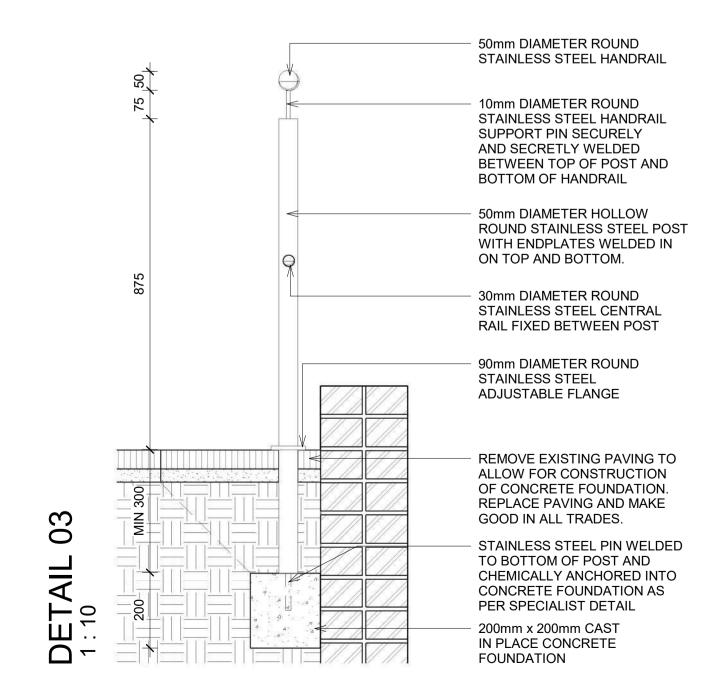


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- 10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM
- 50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.
- 50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL
- 10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN SIDE OF POST AND
- 30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST 90mm DIAMETER ROUND
- ADJUSTABLE FLANGE STAINLESS STEEL PIN
- WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING MASONRY STAIRS AS PER



STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS

BOTTOM 🤝

WALKWAY 🤝

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PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

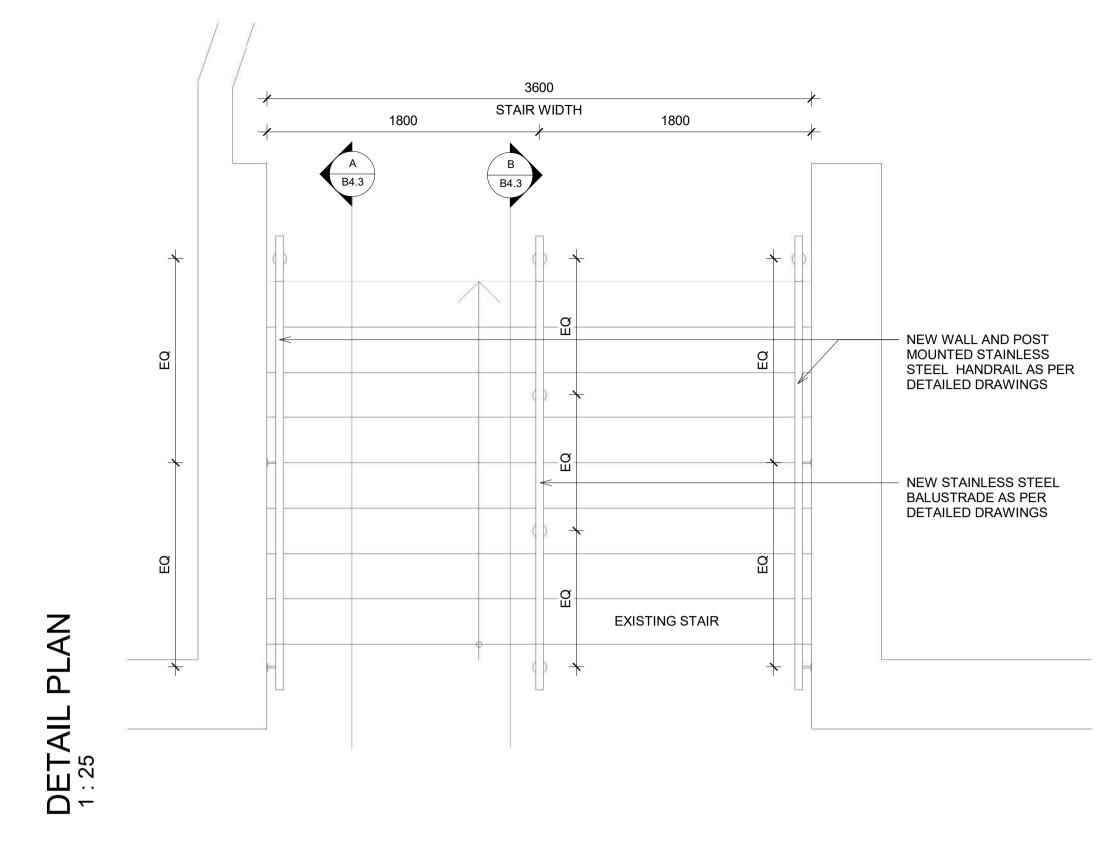
	BUII	ł	łA	4 BALUSTR NDRAILS 0 As indicated (2	ND
	PROJECT	PHAS	SE	BLOCK / SERIES / SUFFIX		REVISION
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		I		DRAWING STATUS		
	INFO			TENDER	CONSTR	
F		DRAWN BY: BH		CHI	ECKED BY:	

SIGNED:

DATE: 28-Jan-2022 1:52:08 PM

BUILDING 4: ENTRANCE

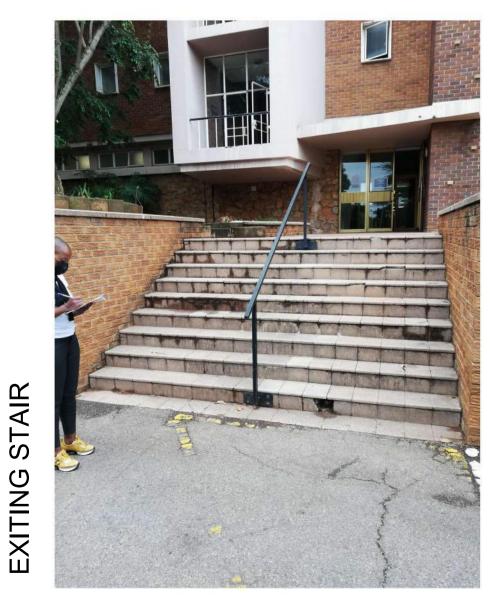
NOTES: - EXISTING BALUSTRADE IN THE MIDDLE OF STAIR TO BE DEMOLISED AND STRUCTURE TO BE MADE GOOD IN ALL TRADES

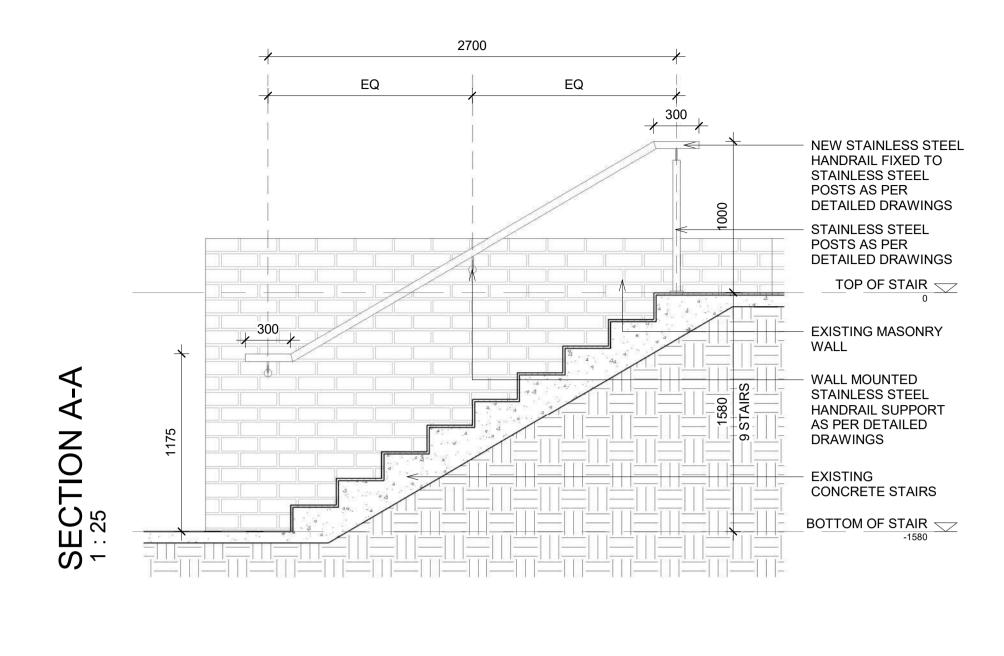


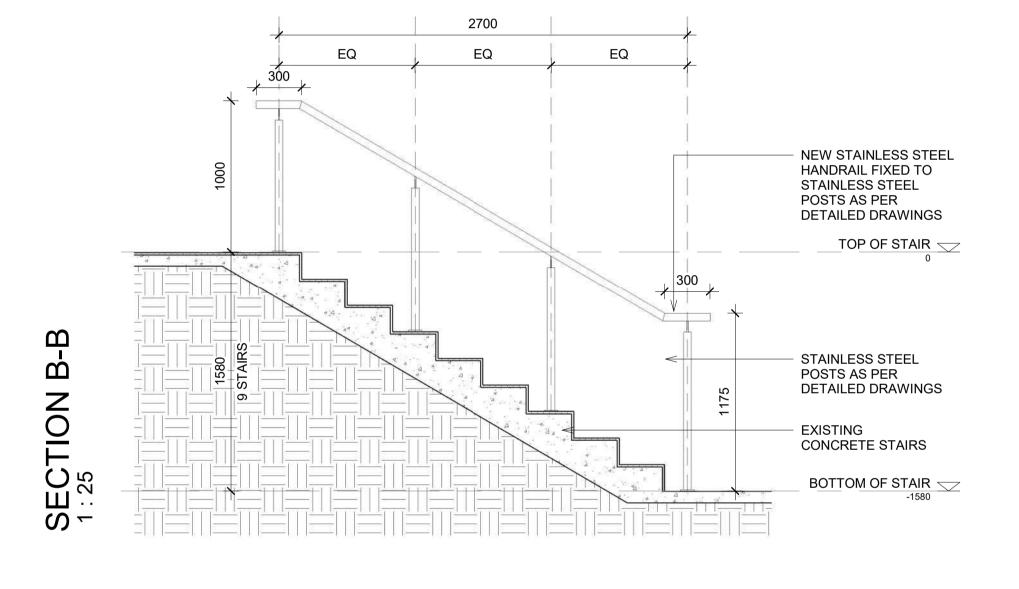
SCHEDULE OF NEW HANDRAILS AND BALUSTARDES

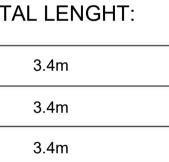
STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	тот
ENTRANCE	LEFT	HANDRAIL	STAINLESS STEEL	
	CENTER	BALUSTRADE	STAINLESS STEEL	
	RIGHT	HANDRAIL	STAINLESS STEEL	

TOTAL NEW HANDRAILS	
TOTAL NEW BALUSTRADES	

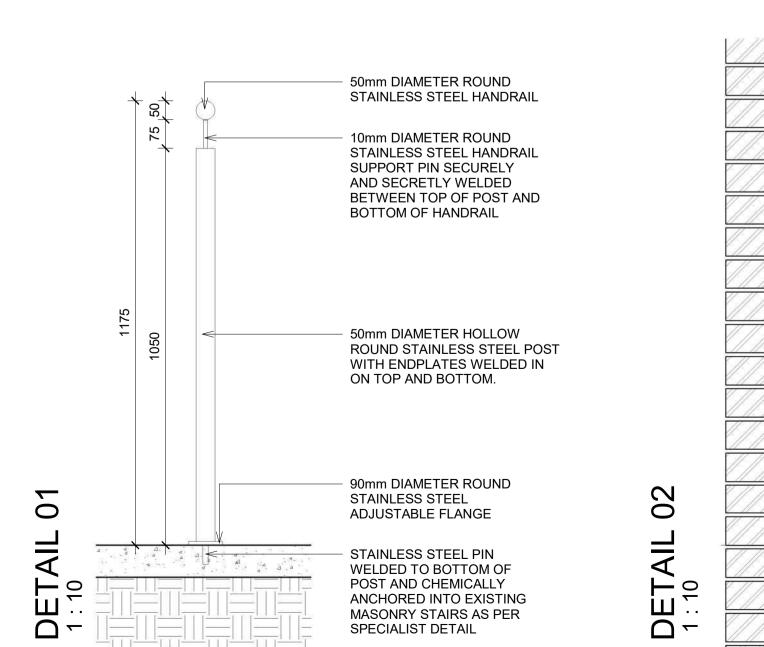


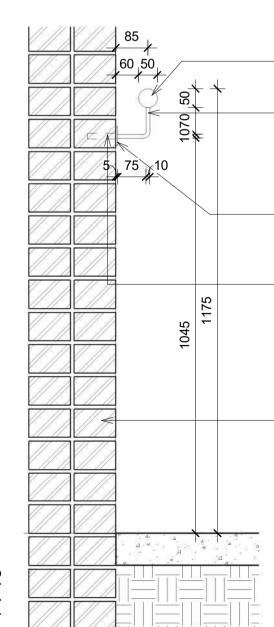












50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN SIDE OF PLATE AND BOTTOM OF HANDRAIL

50mm DIAMETER ROUND STAINLESS STEEL FLANGE, MOUNTED FLUSH WITH WALL

STAINLESS STEEL PIN WELDED TO BACK OF FLANGE AND CHEMICALLY ANCHORED INTO EXISTING MASONRY WALL AS PER SPECIALIST DETAIL

EXISTING MASONRY WALL

All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications. The contractor shall in all aspects of the works comply with the



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REV	DATE	DESCRIPTION
1	2022-01-27	ISSUED FOR TENDER
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P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

Tel : 039 312 0403 cell : 073 725 7297 fax :039 312 0762 www.iqhayiyadw.co.za architects



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PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

BUILDING 4 BALUSTRADE AND HANDRAILS 03 SCALE: As indicated @ A1							
	PROJECT	PHASE BLOCK / SERIES / SUFFIX			/ SUFFIX	REVISION	
ш	CSIR	1	B	B4.3		1	
		US					
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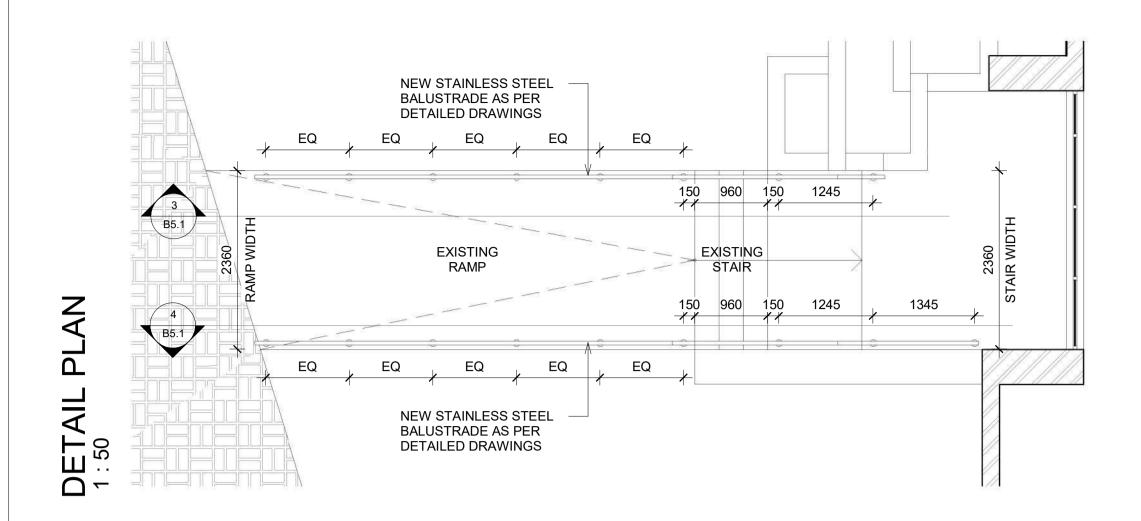
Architect

adminkok@iqhayiyadw.co.za





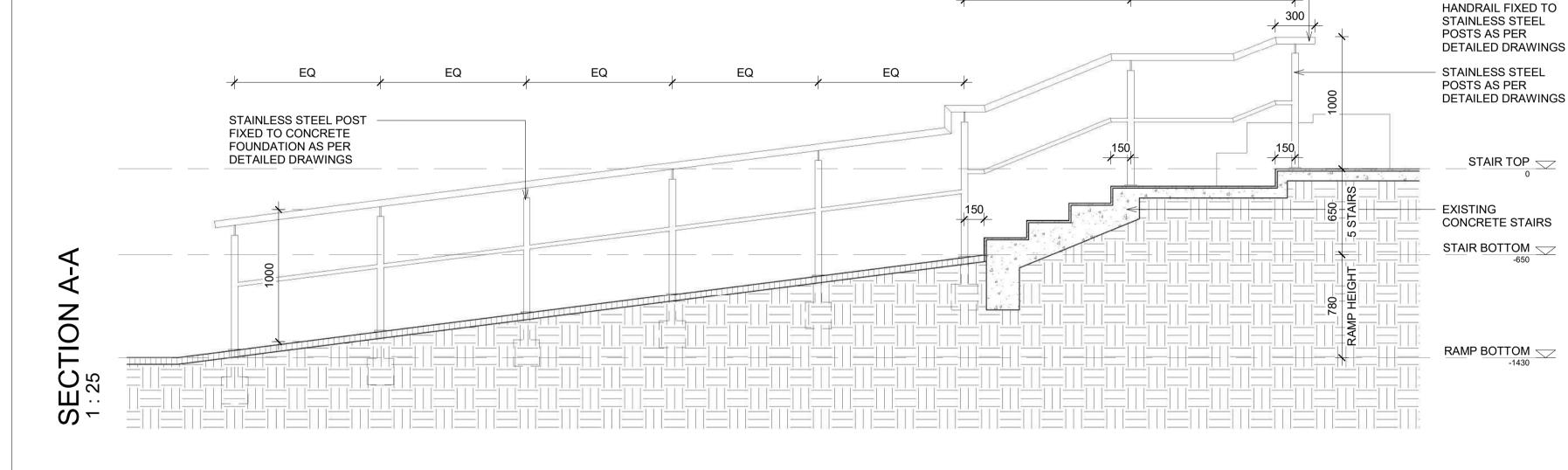
BUILDING 5: MAIN ENTRANCE

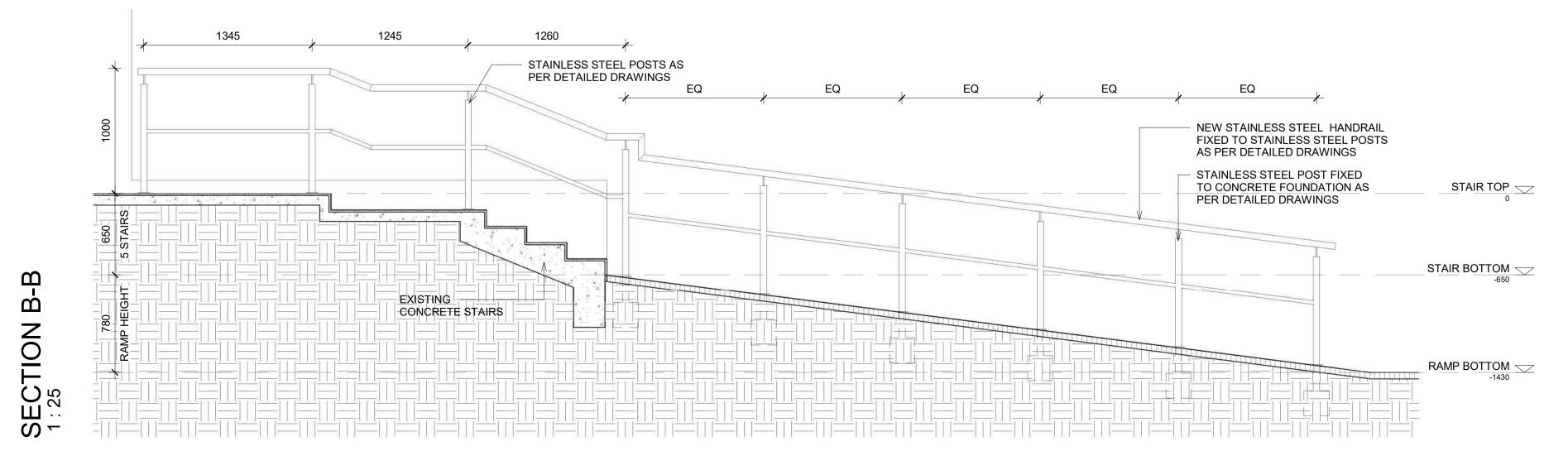


PROPOSED NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	
ENTRANCE	LEFT	BALUSTRADE	STAINLESS STEEL	
	RIGHT	BALUSTRADE	STAINLESS STEEL	

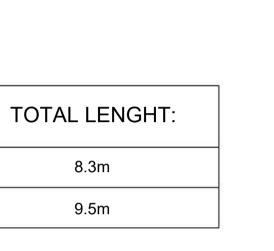
TOTAL NEW BALUSTRADES





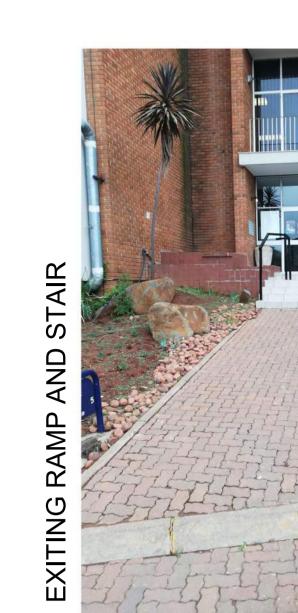


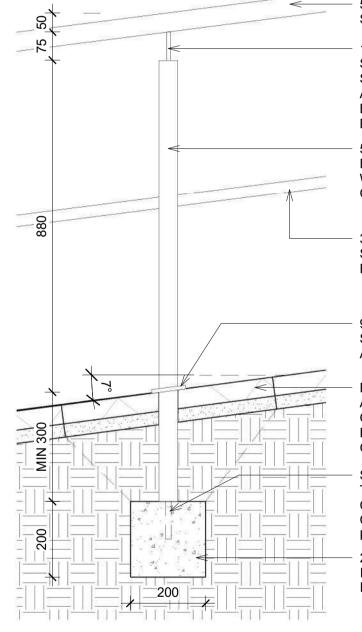
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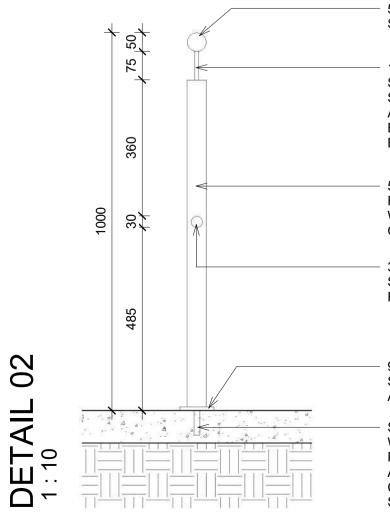
NEW STAINLESS STEEL

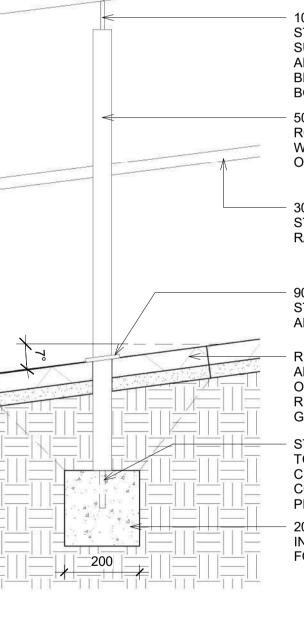




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ETAIL 10







50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL 200mm x 200mm CAST IN PLACE CONCRETE FOUNDATION

50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND **BOTTOM OF HANDRAIL**

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND
STAINLESS STEEL
ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING CONCRETE STAIRS AS PER SPECIALIST DETAIL

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specific trade.

the Architectural specifications. The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources meet the requirements of the Specification. Should the Contractor or any of his sub-contractors be certified to the SANS 9000 family of standards then monitor these works accordingly.

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DATE 2022-01-27 ISSUED FOR TENDER DESCRIPTION S VISION ш



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⁴²⁷⁵ iqhayiya **d**esign workshop www.iqhayiyadw.co.za architects Form follows site orientation

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PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

	BUILDING 5 BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1							
	PROJECT	PHASE	BLOCK / SERIES	/ SUFFIX	REVISION			
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			DRAWING STATUS					
	INFO TENDER CONSTRUCTION							
F	DI	RAWN BY: BH	СН	ECKED BY: MM				
	28-Jan-2	DATE: 2022 1:58:1		SIGNED:				



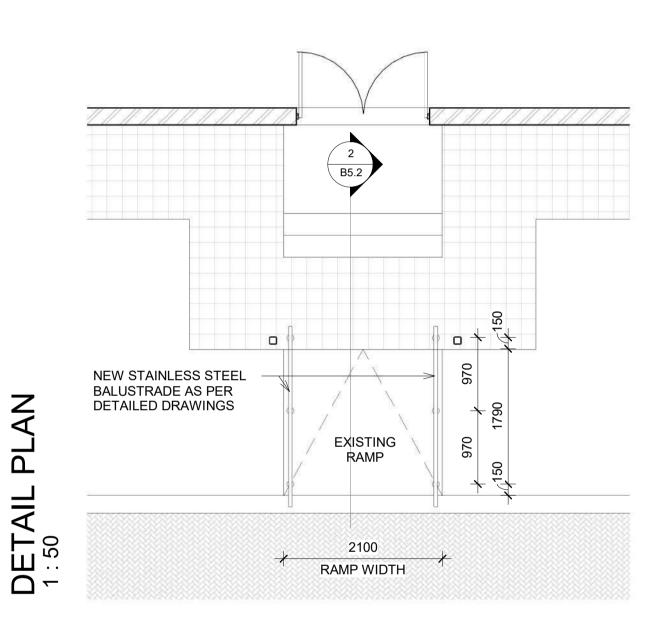
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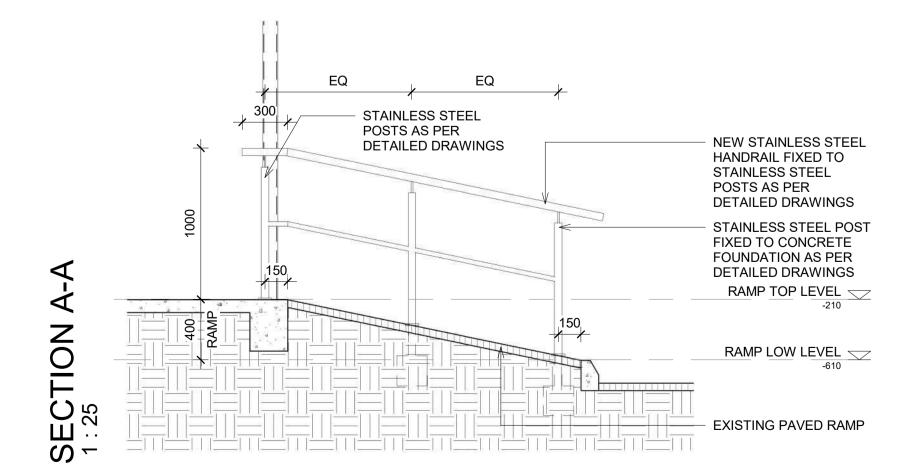
BUILDING 5: SIDE ENTRANCE

PROPOSED NEW HANDRAILS AND BALUSTARDES

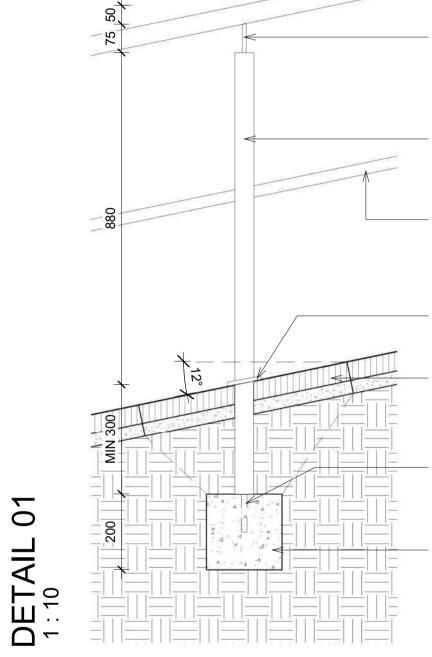
STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
	LEFT	BALUSTRADE	STAINLESS STEEL	2.4m
ENTRANCE RAMP	RIGHT	BALUSTRADE	STAINLESS STEEL	2.4m
				~
			TOTAL NEW BALUSTRADES	4.8m

NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH









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50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

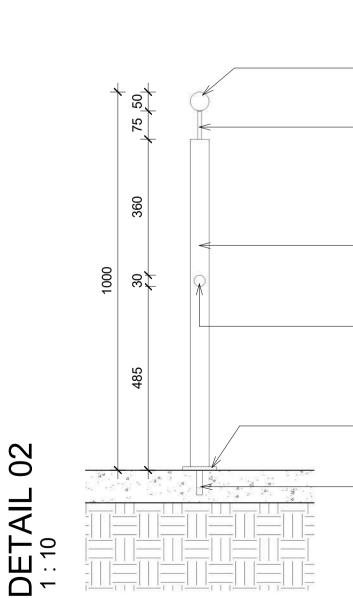
30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL

200mm x 200mm CAST FOUNDATION



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

- 30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING CONCRETE STAIRS AS PER SPECIALIST DETAIL



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Architect

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fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects

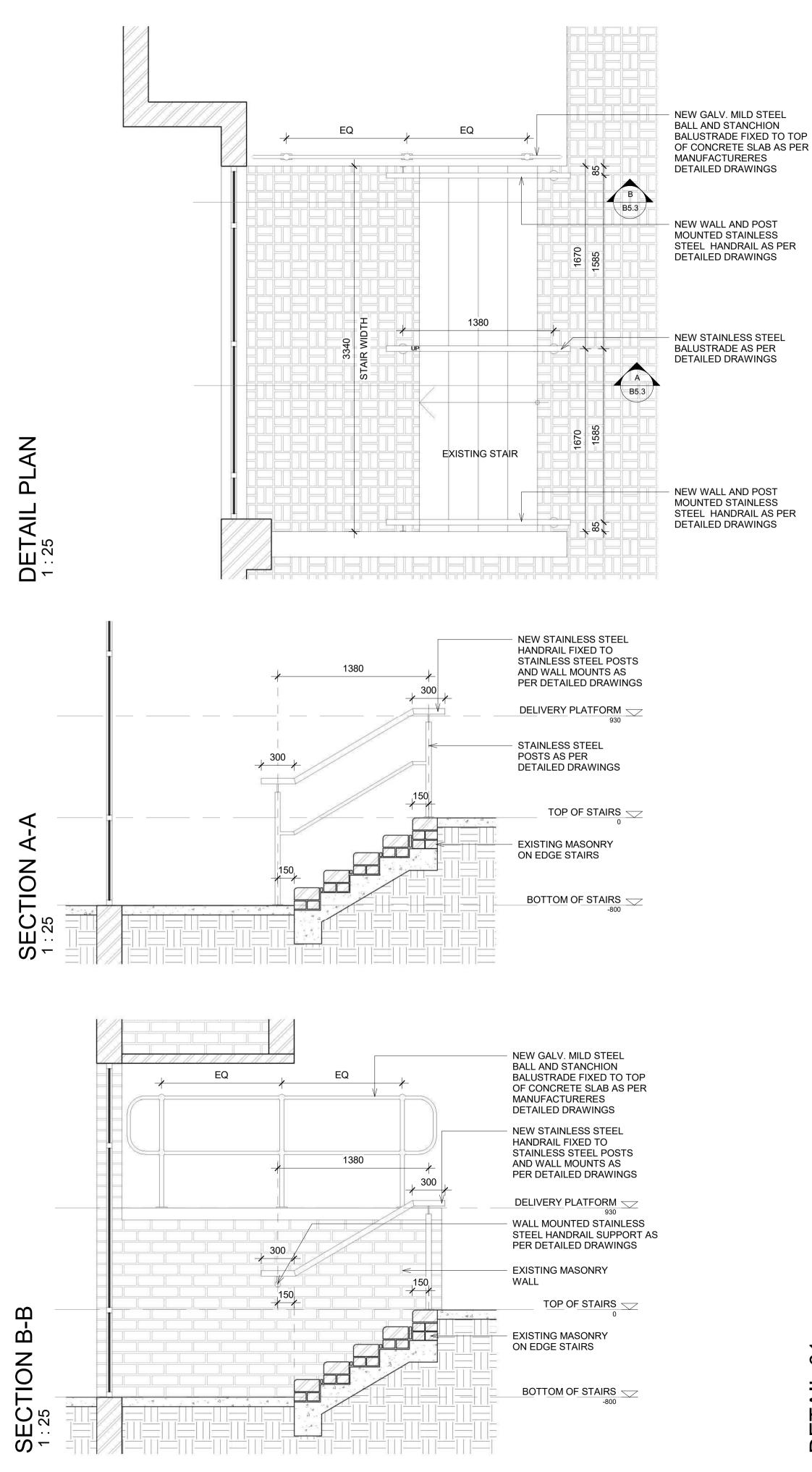


⁴²⁷⁵ iqhayiya Tel : 039 312 0403 cell : 073 725 7297 design workshop Form follows site orientation



	BUIL	ł	A	5 BALUSTR NDRAILS 0 As indicated (2	ND		
	PROJECT	PHAS	E	BLOCK / SERIES	/ SUFFIX	REVISION		
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		DRAWING STATUS						
	INFO			TENDER	CONSTR			
F			VN BY: CHECKED BY: BH MM					
	28-Jan-2	DATE: 2022 1:5	9:29		SIGNED:			

BUILDING 5: DELIVERY AREA



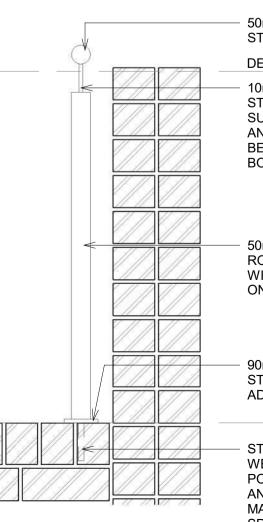
PROPOSED NEW HANDRAILS AND BALUSTARDES							
STAIR LOCATION:	POSITION ON STAIR: HANDRAIL OR BALUSTARDE		MATERIAL:	TOTAL LENGHT:			
	LEFT	HANDRAIL	STAINLESS STEEL	1.9m			
DELIVERY STAIR	CENTRAL	BALUSTARDE	STAINLESS STEEL	1.9m			
	RIGHT	HANDRAIL	STAINLESS STEEL	1.9m			
TOP OF DELIVERY RAMP	LEFT	BALUSTARDE	BALL AND STANCHION MILD STEEL	2.8m			
5							
			TOTAL NEW BALUSTARDES	1.9m			
			TOTAL NEW HANDRAILS	3.8m			



STAIR EXITING

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AIR ST XITING



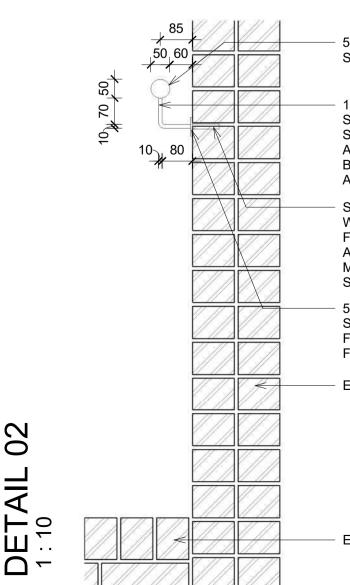
50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING MASONRY STAIRS AS PER SPECIALIST DETAIL



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50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN SIDE OF PLATE AND BOTTOM OF HANDRAIL

STAINLESS STEEL PIN WELDED TO BACK OF FLANGE AND CHEMICALLY ANCHORED INTO EXISTING MASONRY WALL AS PER SPECIALIST DETAIL

50mm DIAMETER ROUND STAINLESS STEEL FLANGE, MOUNTED FLUSH WITH WALL

EXISTING MASONRY WALL

EXISTING MASONRY STAIRS



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	1	2022-01-27	ISSUED FOR CONSTRUCTION
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4275 Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects

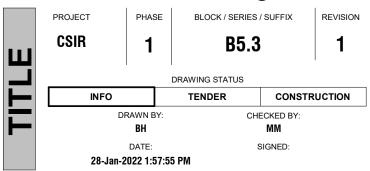


iqhayiya design workshop Form follows site orientation



PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

BUILDING 5 BALUSTRADE AND HANDRAILS 03 SCALE: As indicated @ A1

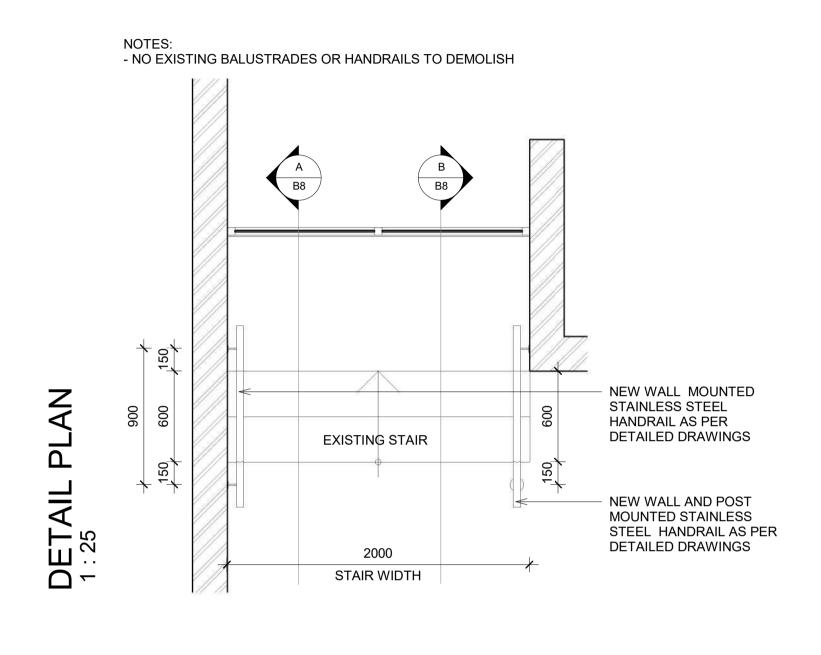


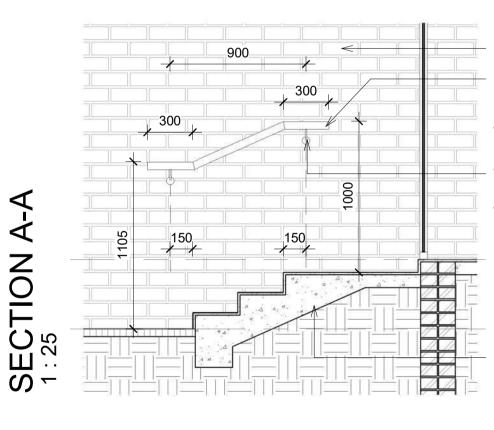
BUILDING 8:

PROPOSED NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	ΤΟΤΑ
ENTRANCE RAMP	LEFT	HANDRAIL	STAINLESS STEEL	
	RIGHT	HANDRAIL	STAINLESS STEEL	
-		ENTRANCE RAMP	STAIR LOCATION: POSITION ON STAIR: BALUSTARDE ENTRANCE RAMP LEFT HANDRAIL	STAIR LOCATION: POSITION ON STAIR: BALUSTARDE MATERIAL: ENTRANCE RAMP LEFT HANDRAIL STAINLESS STEEL

TOTAL NEW HANDRAILS





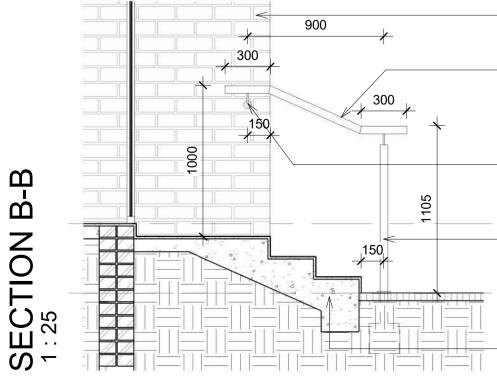
EXISTING MASONRY WALL

NEW STAINLESS STEEL HANDRAIL FIXED TO STAINLESS STEEL POSTS AND WALL MOUNTS AS PER DETAILED DRAWINGS

WALL MOUNTED STAINLESS STEEL HANDRAIL SUPPORT AS PER DETAILED DRAWINGS

EXISTING STAIRS





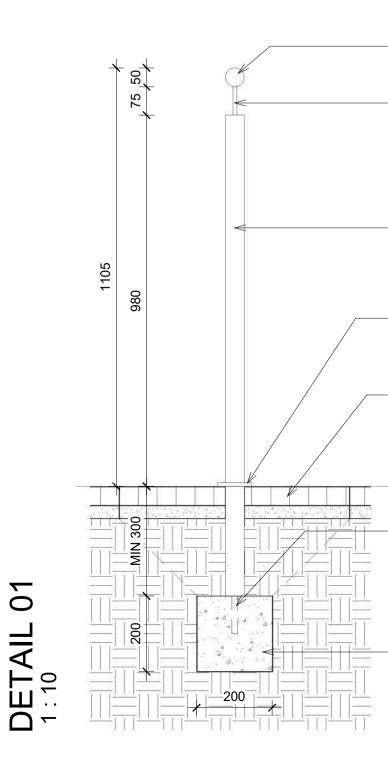
EXISTING MASONRY WALL

NEW STAINLESS STEEL HANDRAIL FIXED TO STAINLESS STEEL POSTS AND WALL MOUNTS AS PER DETAILED DRAWINGS

WALL MOUNTED STAINLESS STEEL HANDRAIL SUPPORT AS PER DETAILED DRAWINGS

STAINLESS STEEL POST FIXED TO CONCRETE FOUNDATION AS PER DETAILED DRAWINGS

EXISTING STAIRS



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AL LENGHT: 1.3m 1.3m

2.6m

 \sim STAIR EXITING

50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

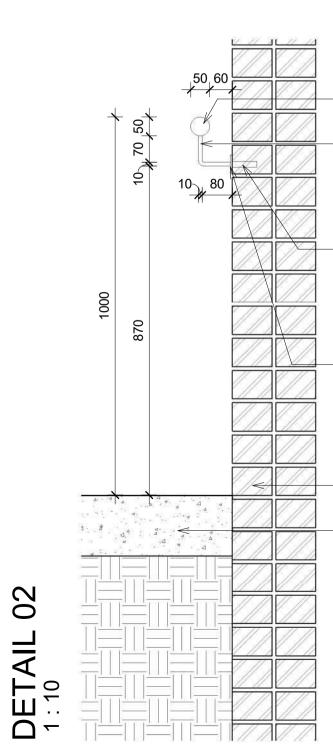
50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL

200mm x 200mm CAST IN PLACE CONCRETE FOUNDATION



02

50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN SIDE OF PLATE AND BOTTOM OF HANDRAIL

STAINLESS STEEL PIN WELDED TO BACK OF FLANGE AND CHEMICALLY ANCHORED INTO EXISTING MASONRY WALL AS PER SPECIALIST DETAIL

50mm DIAMETER ROUND STAINLESS STEEL FLANGE, MOUNTED FLUSH WITH WALL

- EXISTING MASONRY WALL

EXISTING STAIRS



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⁴²⁷⁵ iqhayiya design workshop Form follows site orientation

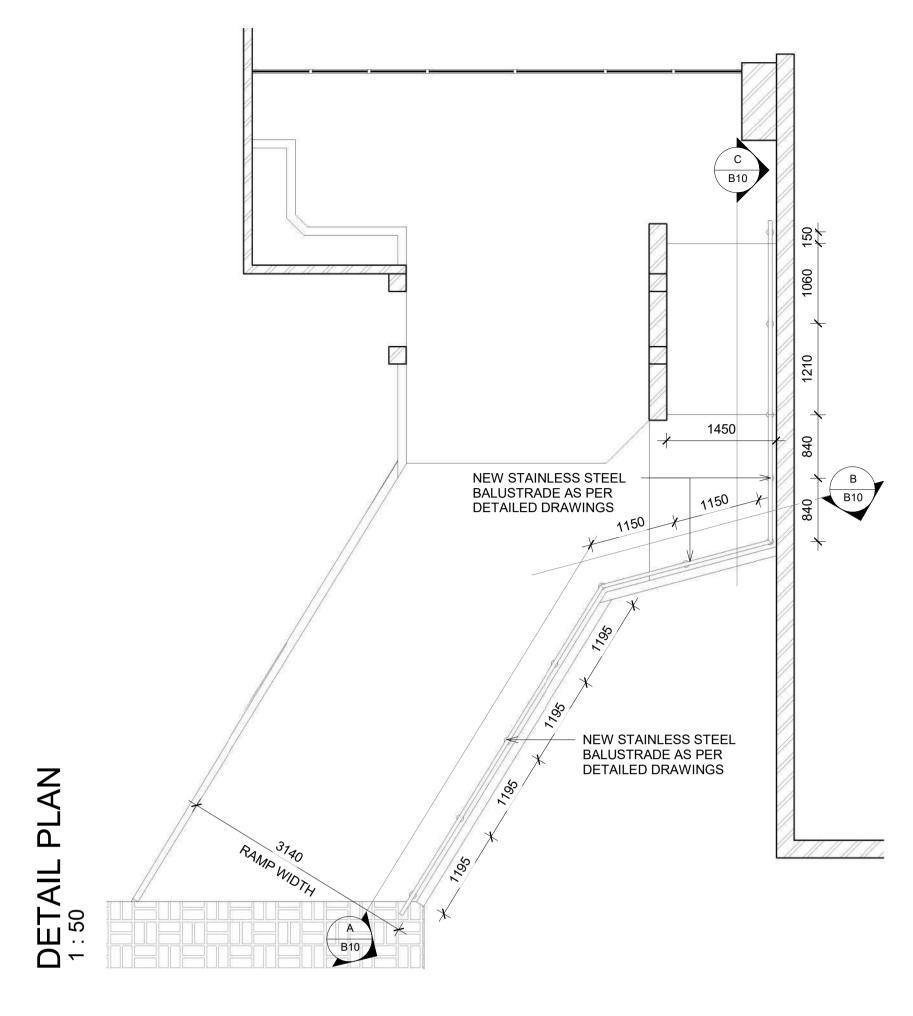


PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

BUILDING 8 BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1 BLOCK / SERIES / SUFFIX REVISION PROJECT PHASE CSIR **B8** 1 DRAWING STATUS E TENDER CONSTRUCTION INFO DRAWN BY CHECKED BY: MM BH DATE: SIGNED: 28-Jan-2022 2:01:21 PM

BUILDING 10:

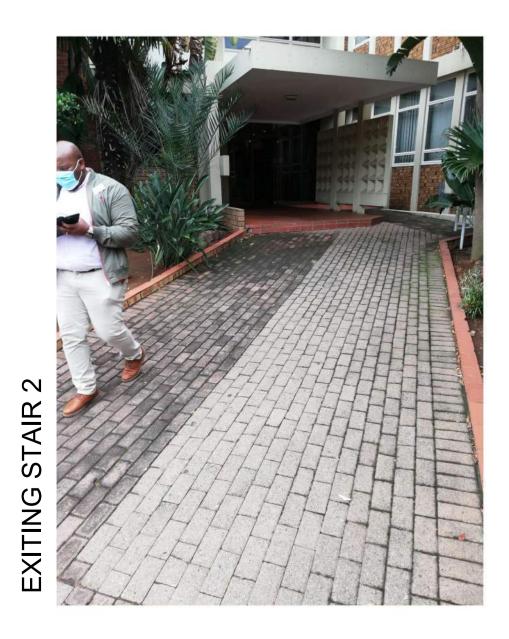
NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH

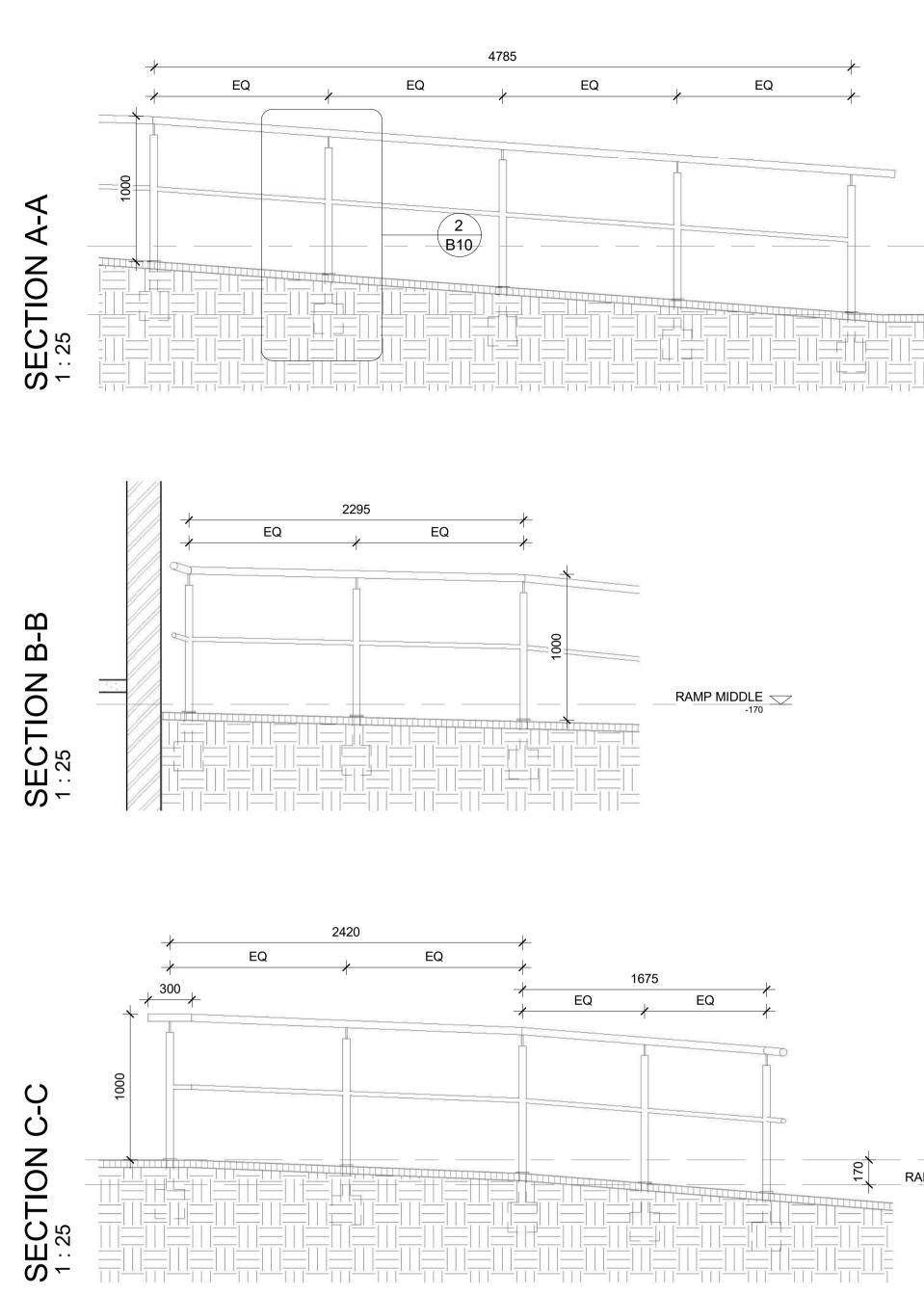


PROPOSED NEW HANDRAILS AND BALUSTARDES

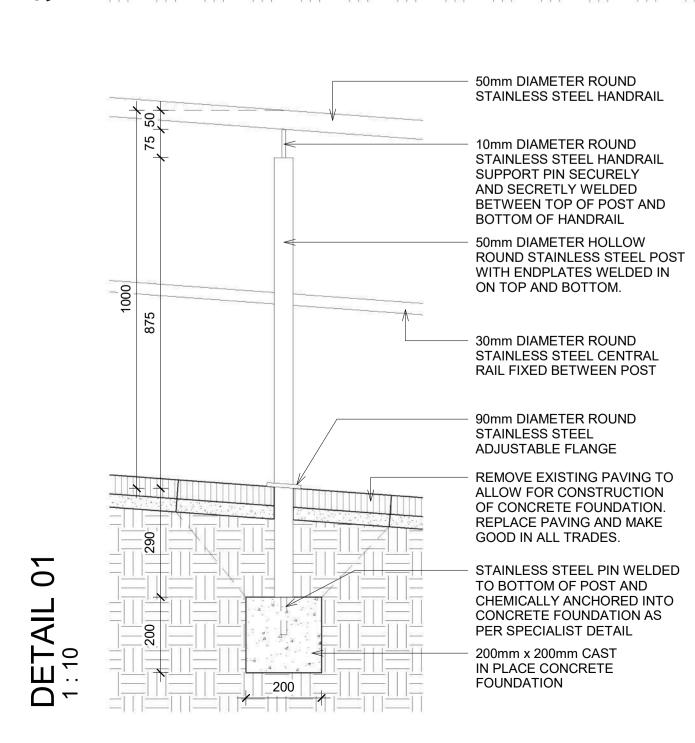
STAIR LOCATION: POSITION ON STAIR:		HANDRAIL OR BALUSTARDE	MATERIAL:	ΤΟΤΑ
	RAMP BOTTOM	BALUSTRADE	STAINLESS STEEL	
ENTRANCE RAMP	RAMP MIDDLE	BALUSTRADE	STAINLESS STEEL	
	RAMP TOP	BALUSTRADE	STAINLESS STEEL	

TOTAL NEW BALUSTRADE





- TAL LENGHT: 5.1m 2.3m 4.2m
- 11.6m



All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications. the Architectural specifications. The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 9001/ISO 9001, able to be checked to the satisfaction of the Architect that all materials and workmanship, whatever their sources

0 Ζ Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or 4 any of his sub-contractors be certified to the SANS 9000 family of R Ш Z ш C

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standards then monitor these works accordingly. This drawing must be read in conjunction with all the relevant drawings, schedules and specifications from IDW and all other consultants related to the project. All portions of the works related to any service or consultant's information is to be done in accordance with the National Building Regulations.

All work to be executed by competent persons qualified for the specific trade specific trade.

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Architect

P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects



⁴²⁷⁵ **i**qhayiya **d**esign workshop Form follows site orientation

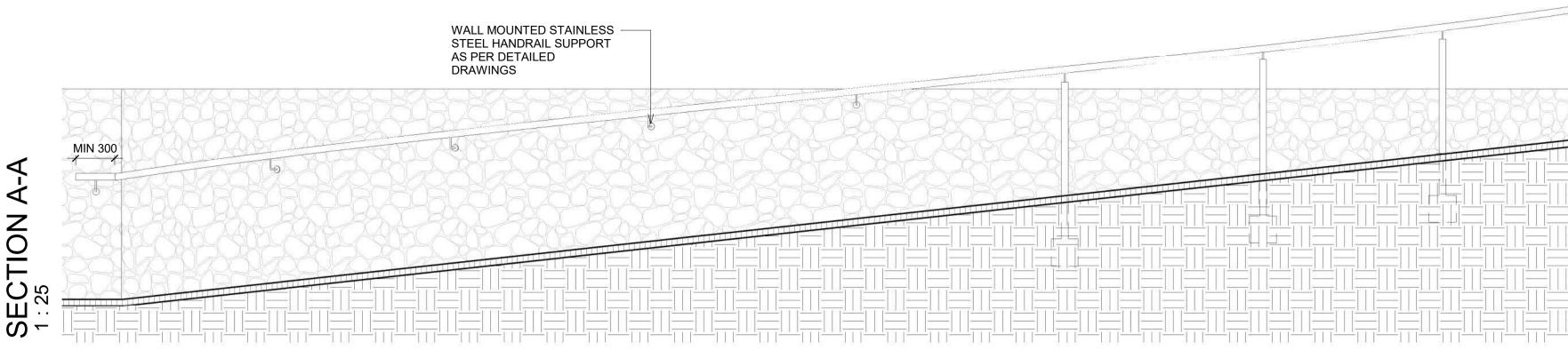
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BUILDING 10 BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1						
PROJECT	PHAS	SE	BLOCK / SERIES	/ SUFFIX	REVISION	
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			DRAWING STATUS			
INFO			TENDER	CONSTR	UCTION	
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28-Jan-2	DATE:	02:0	-	SIGNED:		

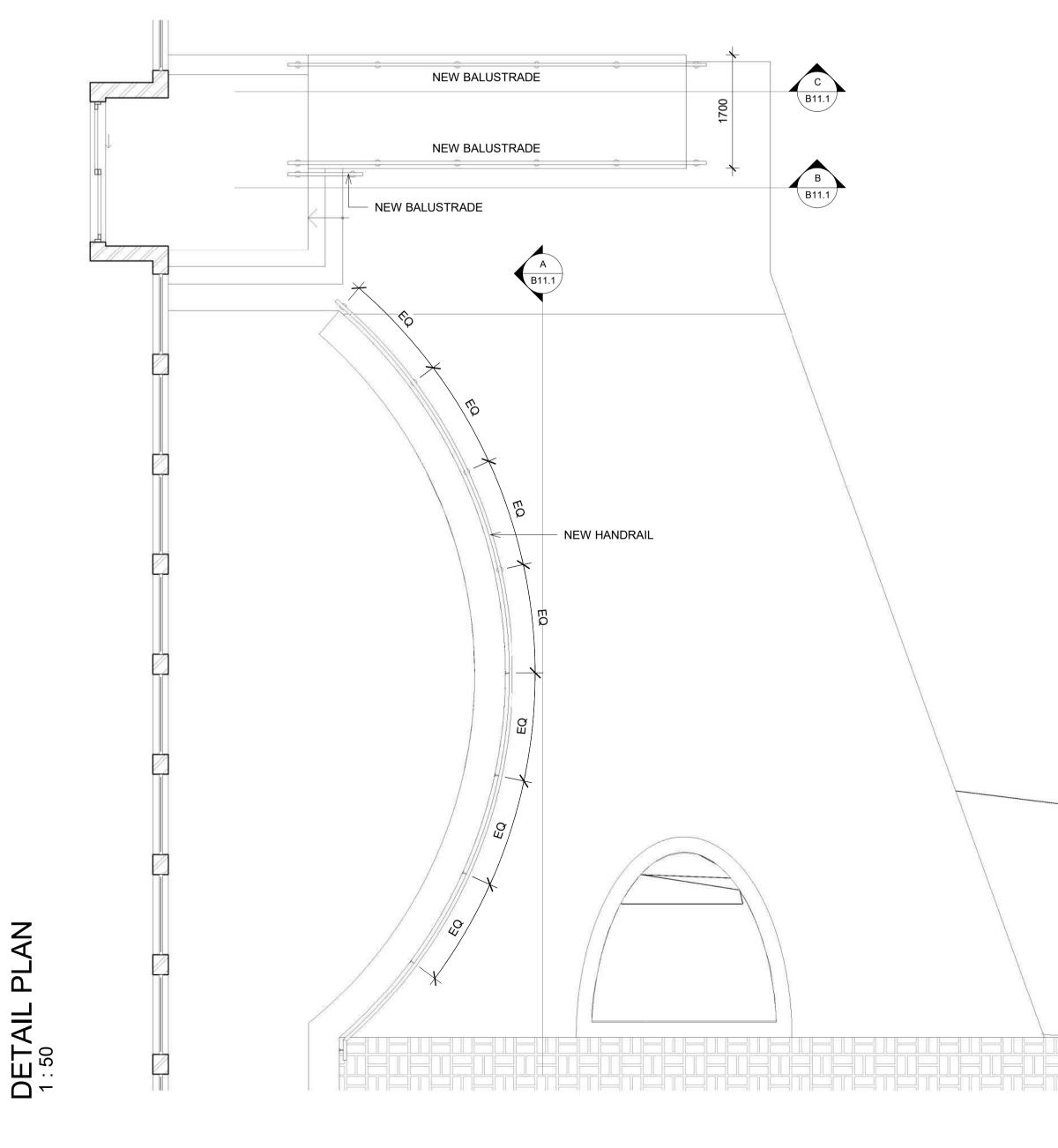
BUILDING 11:

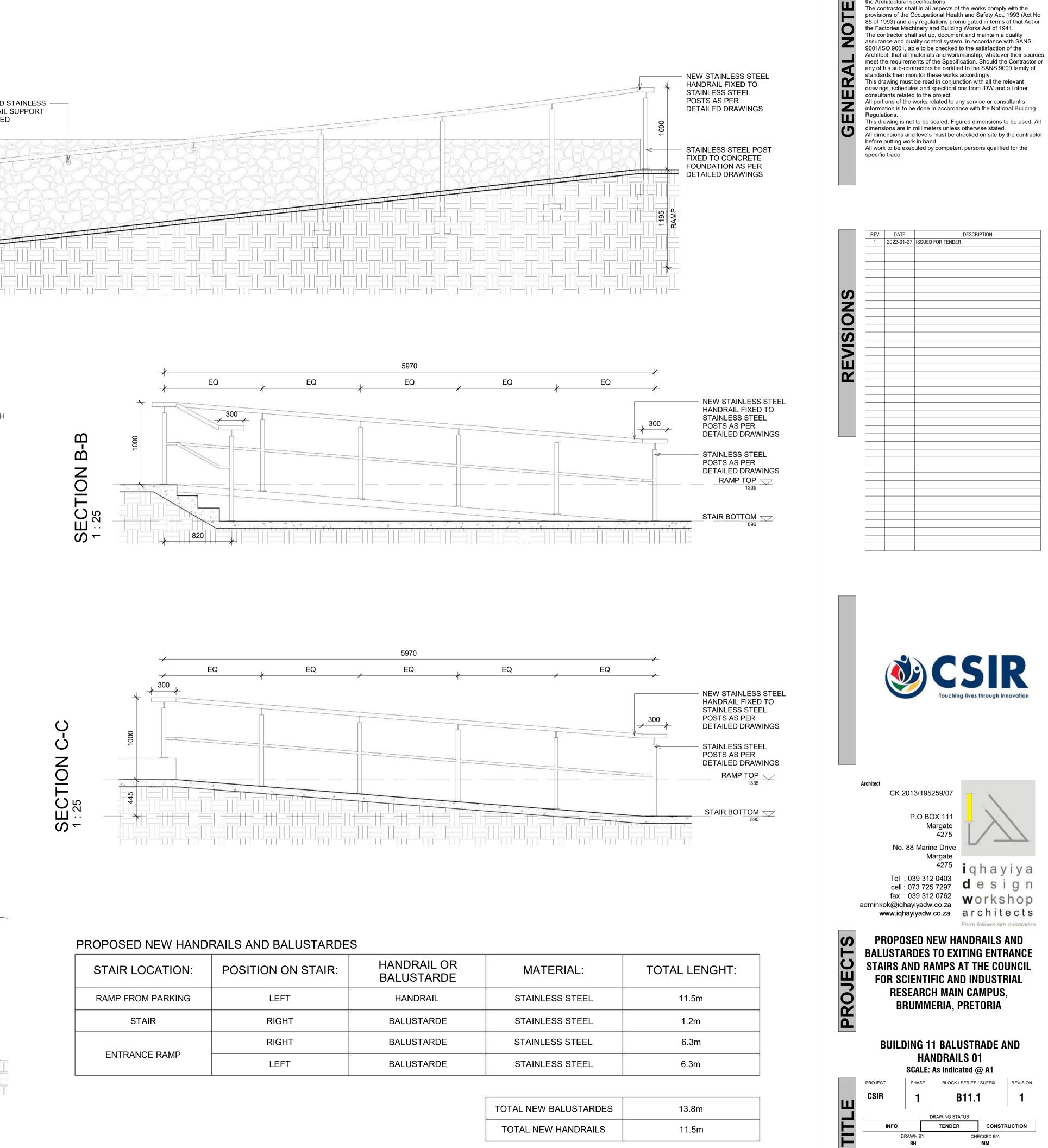
STAIRS AND RAMP EXITING



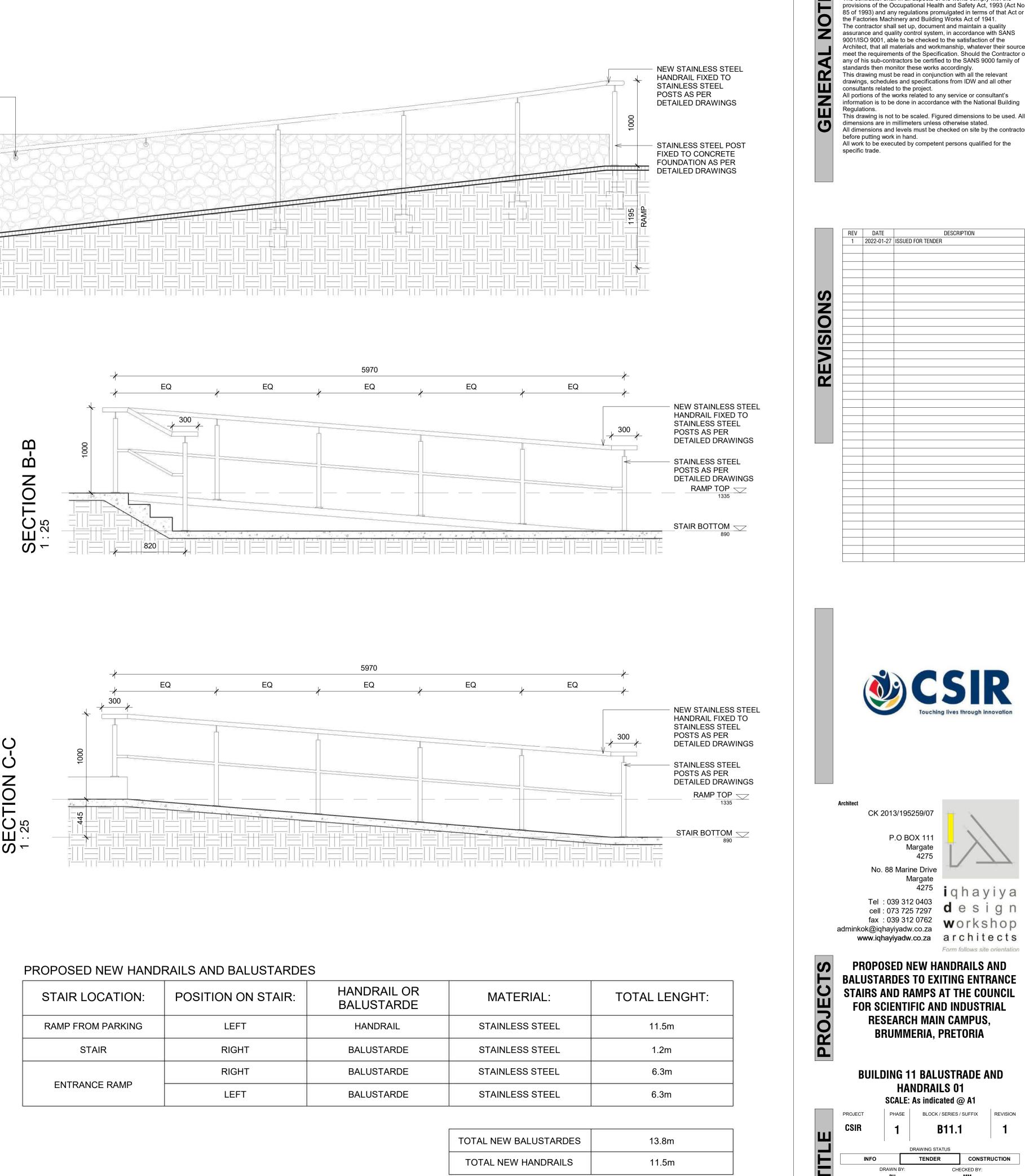


NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH









STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:
RAMP FROM PARKING	LEFT	HANDRAIL	STAINLESS STEEL
STAIR	RIGHT	BALUSTARDE	STAINLESS STEEL
	RIGHT	BALUSTARDE	STAINLESS STEEL
ENTRANCE RAMP	LEFT	BALUSTARDE	STAINLESS STEEL

BH DATE: 28-Jan-2022 2:03:29 PM

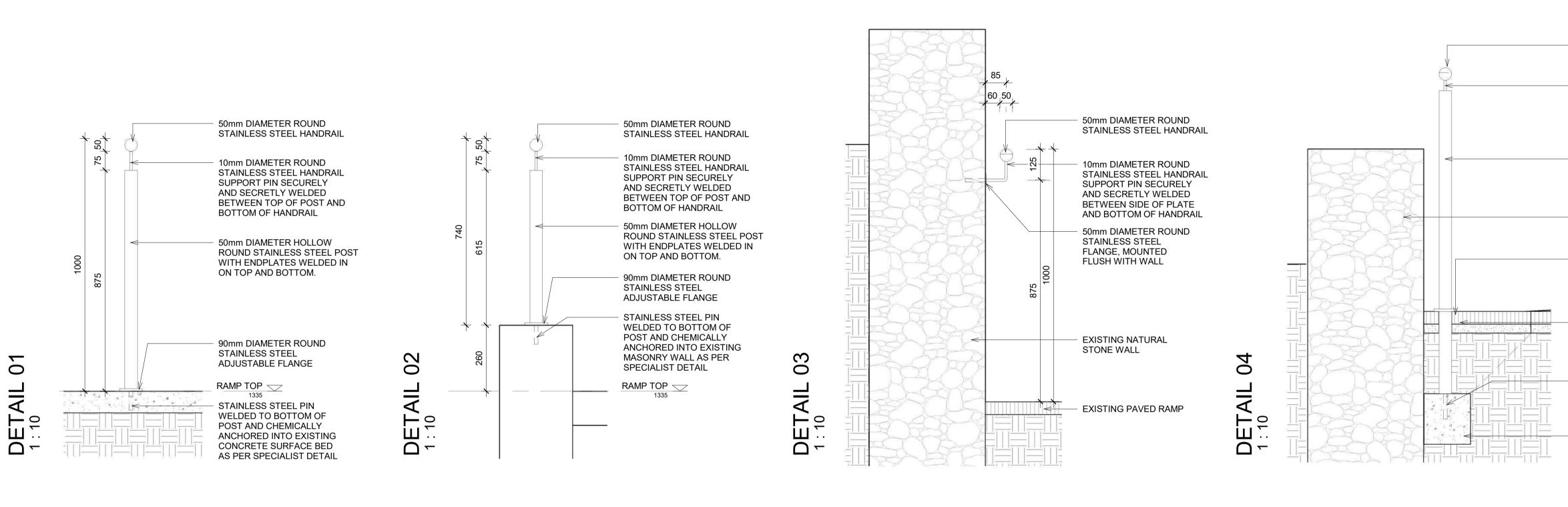
All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS.

codes and or the specified international codes where applicable in

the Architectural specifications.

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All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications. The contractor shall in all aspects of the works comply with the

provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or



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Regulations. This drawing is not to be scaled. Figured dimensions to be used. All dimensions are in millimeters unless otherwise stated. All dimensions and levels must be checked on site by the contractor before putting work in hand.

All work to be executed by competent persons qualified for the specific trade.

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50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

EXISTING NATURAL STONE WALL

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL 200mm x 200mm CAST

IN PLACE CONCRETE FOUNDATION



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adminkok@iqhayiyadw.co.za



⁴²⁷⁵ iqhayiya Tel : 039 312 0403 cell : 073 725 7297 design fax: 039 312 0762 workshop www.iqhayiyadw.co.za architects Form follows site orientation



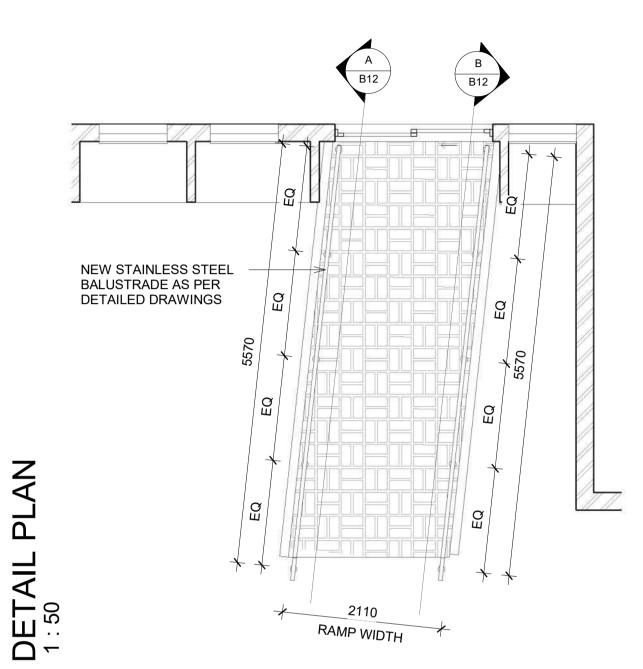
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	PROJECT	PHAS	SE	BLOCK / SERIES	/ SUFFIX	REVISION	
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		DRAWING STATUS					
	INFO			TENDER	CONSTR		
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BUILDING 12:

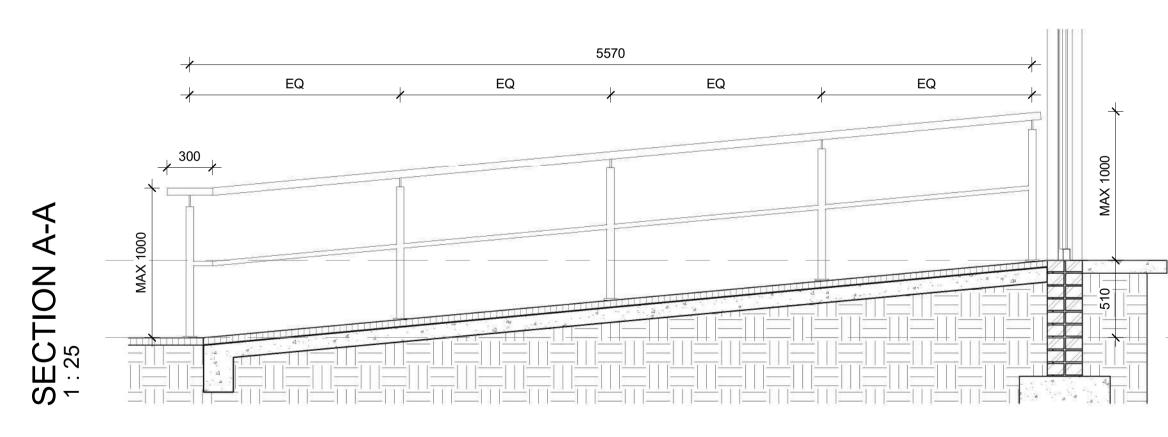
PROPOSED NEW HANDRAILS AND BALUSTARDES

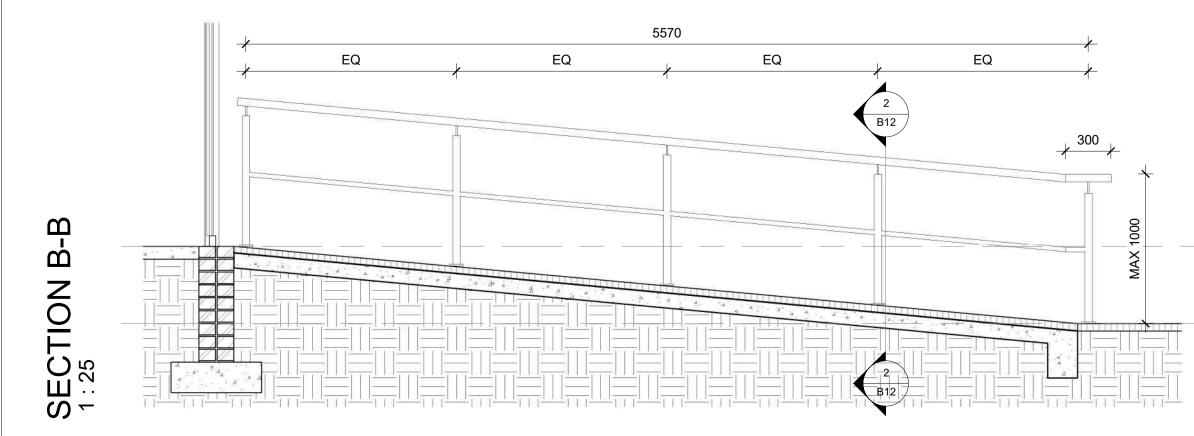
STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	ΤΟΤΑ
ENTRANCE RAMP	LEFT	BALUSTRADE	STAINLESS STEEL	
	RIGHT	BALUSTRADE	STAINLESS STEEL	

TOTAL NEW BALUSTRADE



NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH



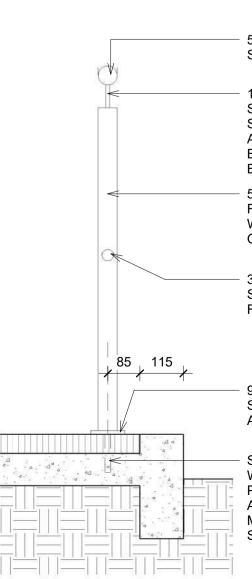


TAL LENGHT: 5.9m 5.9m

11.8m



 $\overline{}$ Ō DETAIL 1:10



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING MASONRY STAIRS AS PER SPECIALIST DETAIL

All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications.

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the Architectural specifications. The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 9001/ISO 9001 able to be checked to the satisfaction of the 9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or any of his sub-contractors be certified to the SANS 9000 family of standards then monitor these works accordingly.

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Architect

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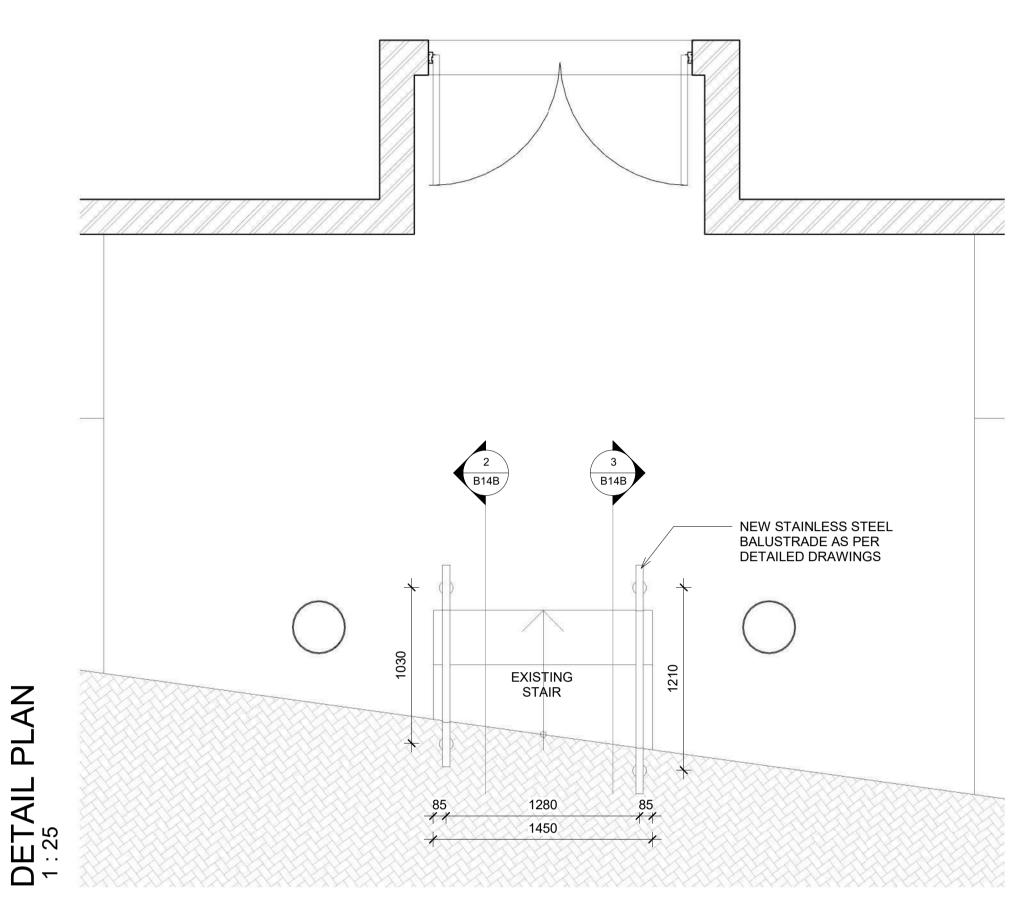
⁴²⁷⁵ **i**qhayiya **d**esign workshop www.iqhayiyadw.co.za architects Form follows site orientation





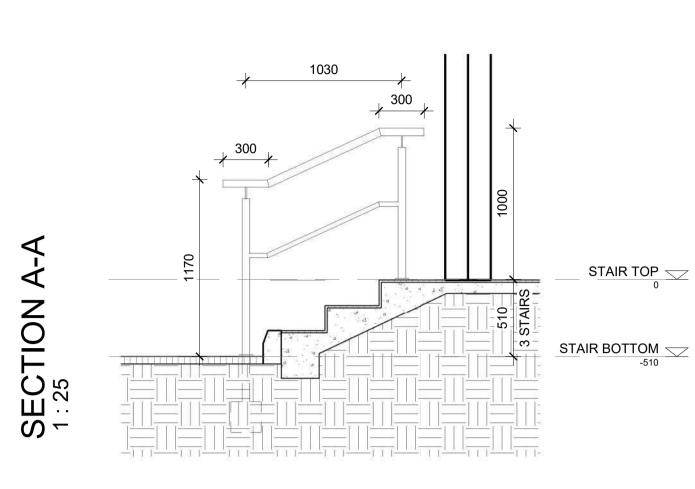
BUILDING 14B:

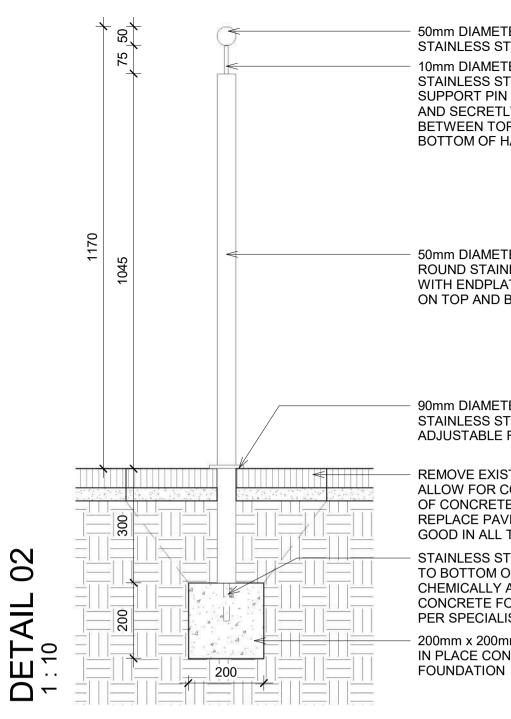


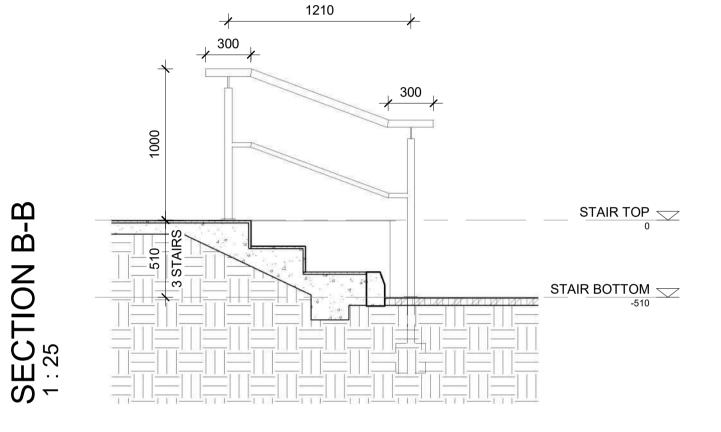


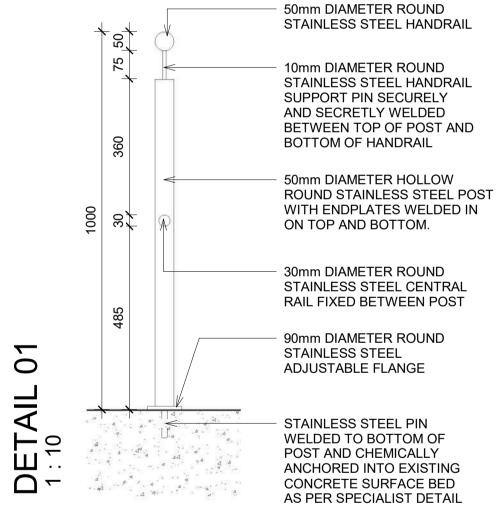
SCHEDULE OF NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
	LEFT	BALUSTRADE	STAINLESS STEEL	1.3m
ENTRANCE STAIR	RIGHT	BALUSTRADE	STAINLESS STEEL	1.4m
			TOTAL NEW HANDRAILS	2.7m









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50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL 10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

 90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

- STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL 200mm x 200mm CAST IN PLACE CONCRETE



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All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications.

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All work to be executed by competent persons qualified for the specific trade.

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Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects



⁴²⁷⁵ iqhayiya design workshop Form follows site orientation

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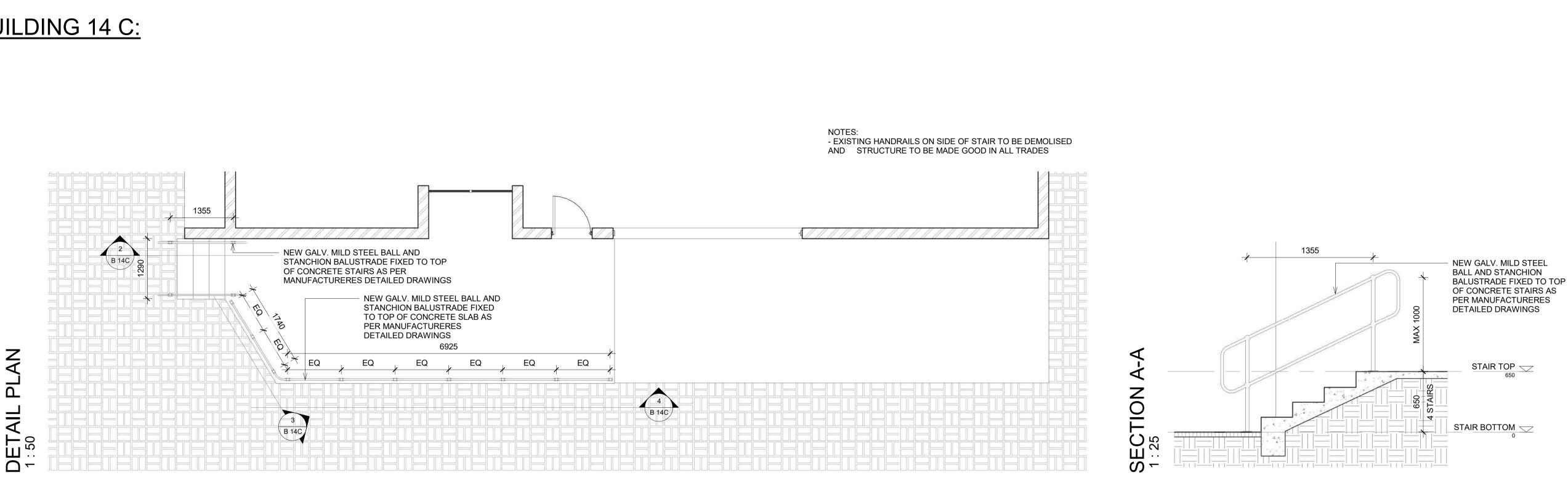
PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

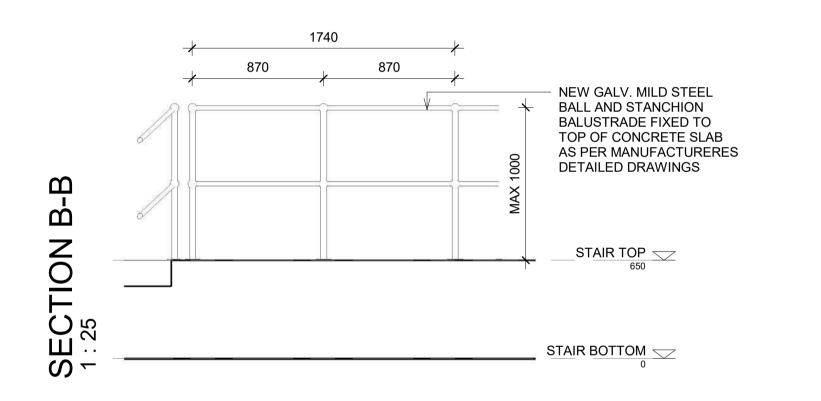
BUILDING 14B BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1 PHASE BLOCK / SERIES / SUFFIX REVISION



Architect

BUILDING 14 C:





PROPOSED NEW HANDRAILS AND BALUSTARDES

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	STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	то
	STAIR	LEFT	BALL AND STANCHION	MILD STEEL	
		RIGHT	BALL AND STANCHION	MILD STEEL	
		LEFT	BALL AND STANCHION	MILD STEEL	
	DELIVERY AREA	LEFT	BALL AND STANCHION	MILD STEEL	

TOTAL NEW BALUSTARDES

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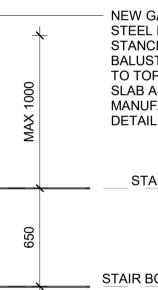
OTAL LENGHT: 1.4m 1.4m 1.9m 7.2m

11.9m

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SECTION 1:25



NEW GALV. MILD STEEL BALL AND STANCHION BALUSTRADE FIXED TO TOP OF CONCRETE SLAB AS PER MANUFACTURERES DETAILED DRAWINGS



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Tel : 039 312 0403 cell : 073 725 7297 fax :039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects

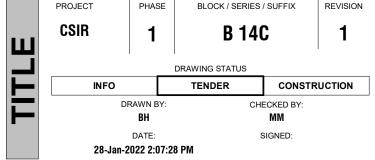


⁴²⁷⁵ iqhayiya design workshop Form follows site orientation

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PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

BUILDING 14C BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1 PHASE BLOCK / SERIES / SUFFIX REVISION B 14C 1



All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications. the Architectural specifications. The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 0001/ISO 0001, ablo to be sheeded to the satisfaction of the

9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or

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any of his sub-contractors be certified to the SANS 9000 family of

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All work to be executed by competent persons qualified for the

information is to be done in accordance with the National Building

This drawing is not to be scaled. Figured dimensions to be used. All dimensions are in millimeters unless otherwise stated. All dimensions and levels must be checked on site by the contractor

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Regulations.

specific trade.

before putting work in hand.

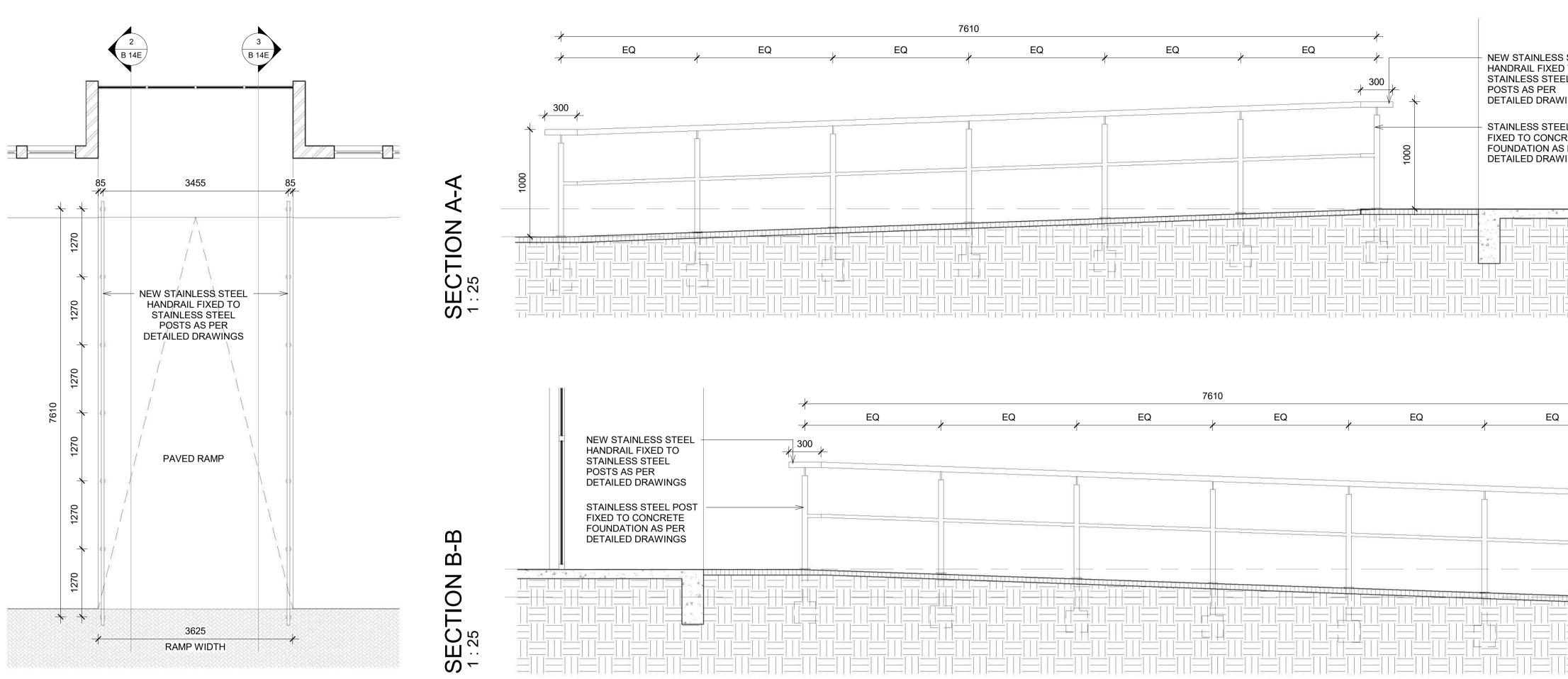
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BUILDING 14 E:

NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH



PROPOSED NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
	LEFT	BALUSTRADE	STAINLESS STEEL	7.9m
ENTRANCE RAMP	RIGHT	BALUSTRADE	STAINLESS STEEL	7.9m

TOTAL NEW BALUSTRADES

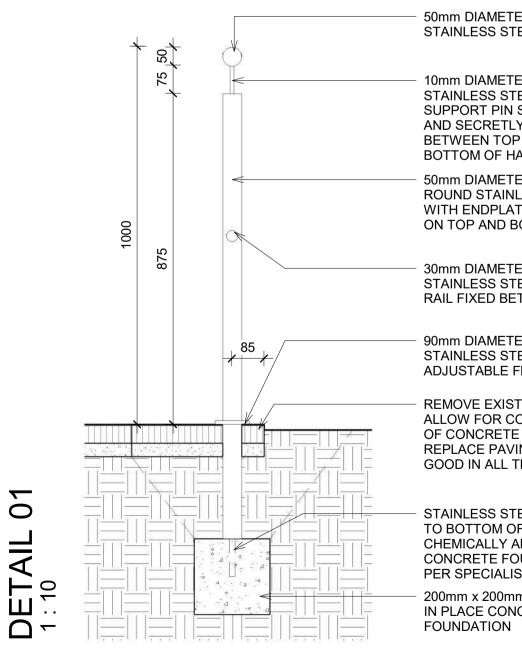


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DETAIL 1:50

15.8m



S STEEL D TO EEL WINGS EEL POST CRETE S PER WINGS	All materials and workmanship are to comply with the relevant SANS. codes and or the specifications. The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or any of his sub-contractors be certified to the SANS 9000 family of standards then monitor these works accordingly. This drawing must be read in conjunction with all the relevant drawings, schedules and specifications from IDW and all other consultants related to the project. All portions of the works related to any service or consultant's information is to be done in accordance with the National Building Regulations. This drawing is not to be scaled. Figured dimensions to be used. All dimensions are in millimeters unless otherwise stated. All dimensions and levels must be checked on site by the contractor before putting work in hand. All work to be executed by competent persons qualified for the specific trade.
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TER ROUND STEEL HANDRAIL TER ROUND STEEL HANDRAIL N SECURELY TLY WELDED OP OF POST AND HANDRAIL TER HOLLOW NLESS STEEL POST ATES WELDED IN BOTTOM.	Artitet Cx 2013/195259/07
TER ROUND STEEL CENTRAL BETWEEN POST	P.O BOX 111 Margate 4275 No. 88 Marine Drive
TER ROUND STEEL STING PAVING TO CONSTRUCTION TE FOUNDATION. VING AND MAKE TRADES.	Margate 4275 Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za
TRADES. STEEL PIN WELDED OF POST AND ANCHORED INTO OUNDATION AS LIST DETAIL MM CAST NCRETE N	Form follows site orientation PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH MAIN CAMPUS , BRUMMERIA, PRETORIA
	BUILDING 14E BALUSTRADE AND HANDRAILS

All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS.

		SCAL	HANDRAIL E: As indicate	-	
	PROJECT	PHASI	E BLOCK / SER	IES / SUFFIX	REVISION
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F	D	RAWN BY	<i>ſ</i> :	CHECKED BY: MM	
	28-Jan-2	DATE: 2022 2:09	9:15 PM	SIGNED:	

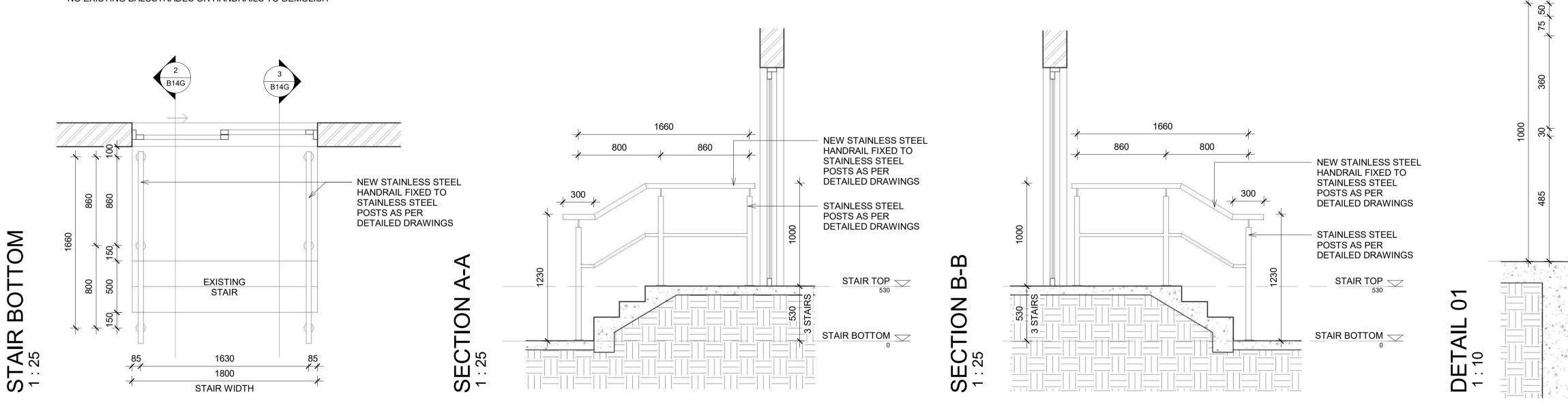
BUILDING 14G:

SCHEDULE OF NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
	LEFT	BALUSTRADE	STAINLESS STEEL	2.0m
ENTRANCE STAIRS	RIGHT	BALUSTRADE	STAINLESS STEEL	2.0m

TOTAL NEW BALUSTRADES

NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH



4.0m

TAIR Ś XITING



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

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STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING CONCRETE STAIRS AS PER SPECIALIST DETAIL

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All work to be executed by competent persons qualified for the specific trade.

	REV	DATE	DESCRIPTION
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Architect

P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

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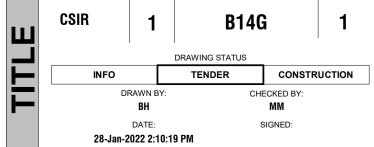


⁴²⁷⁵ iqhayiya design workshop www.iqhayiyadw.co.za architects Form follows site orientation



PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

BUILDING 14G BALUSTRADE AND HANDRAILS SCALE: As indicated @ A1 PHASE BLOCK / SERIES / SUFFIX REVISION PROJECT 1 1



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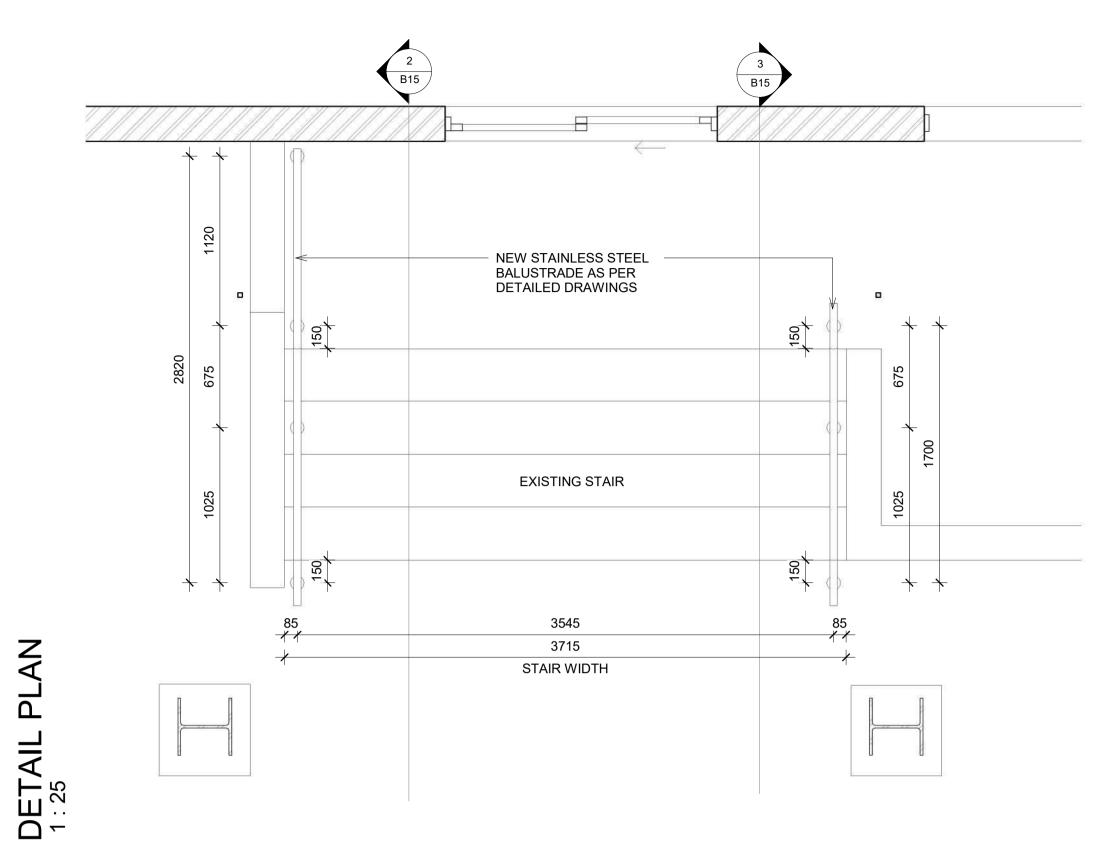
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BUILDING 15:

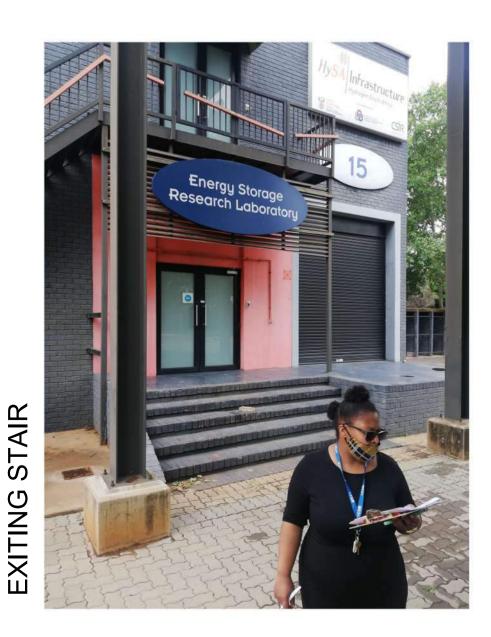
NOTES: - EXISTING BALUSTRADE ON SIDE OF STAIR TO BE DEMOLISED AND STRUCTURE TO BE MADE GOOD IN ALL TRADES



PROPOSED NEW HANDRAILS AND BALUSTARDES

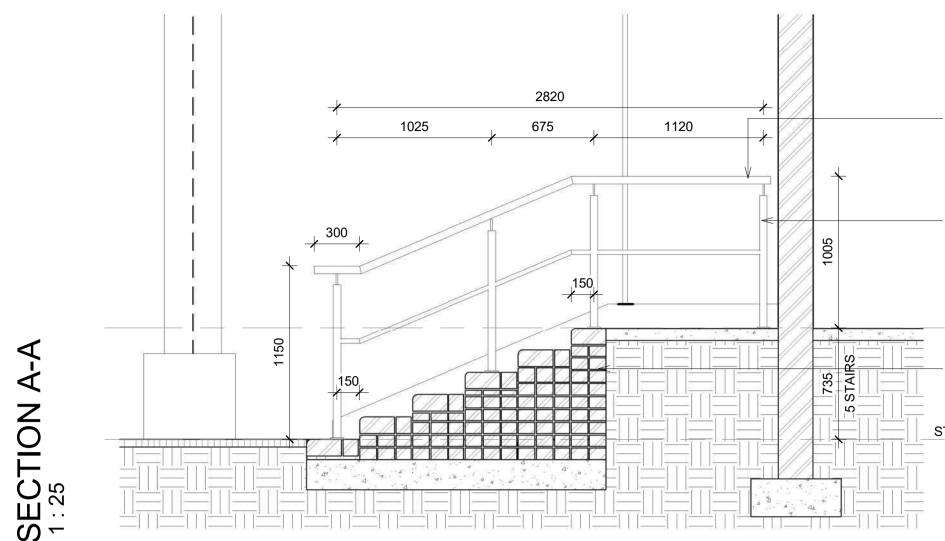
STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	ΤΟΤΑ
ENTRANCE STAIR	LEFT	BALUSTRADE	STAINLESS STEEL	
ENTRANCE STAIR	RIGHT	BALUSTRADE	STAINLESS STEEL	

TOTAL NEW BALUSTRADES



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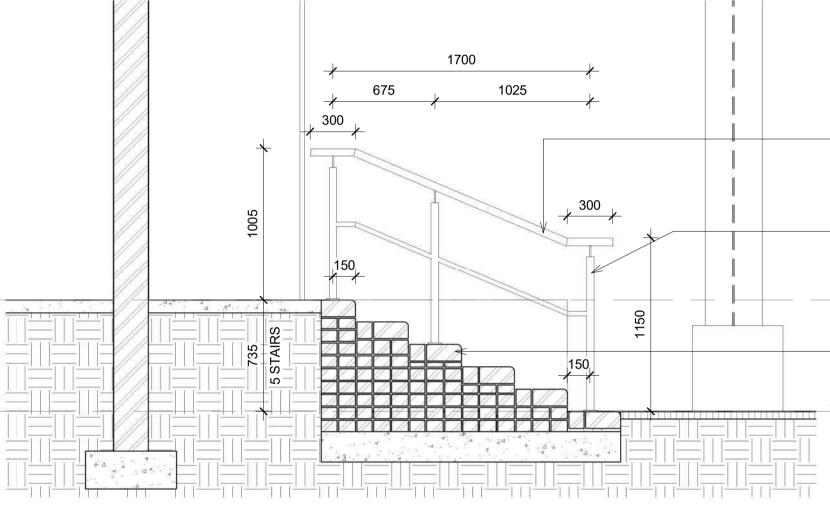


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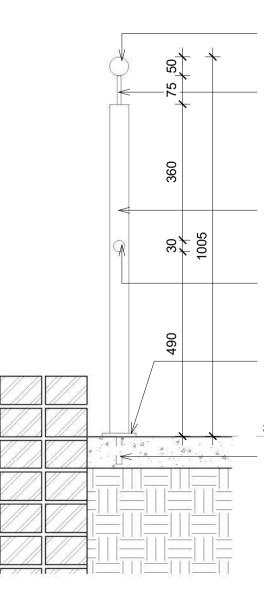
AL LENGHT: 3.1m 2.1m

5.2m

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DETAIL 1:10



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

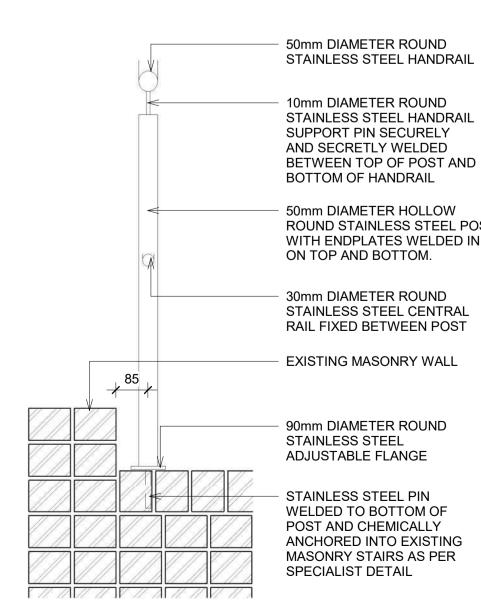
30mm DIAMETER ROUND STAINLESS STEEL CENTRAL RAIL FIXED BETWEEN POST

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

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STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING CONCRETE SURFACE BED AS PER SPECIALIST DETAIL 02

DE 1.1



NEW STAINLESS STEEL HANDRAIL FIXED TO STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS

- STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS
- EXISTING MASONRY ON EDGE STAIRS

- NEW STAINLESS STEEL HANDRAIL FIXED TO STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS
- STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS
- EXISTING MASONRY ON EDGE STAIRS

ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN



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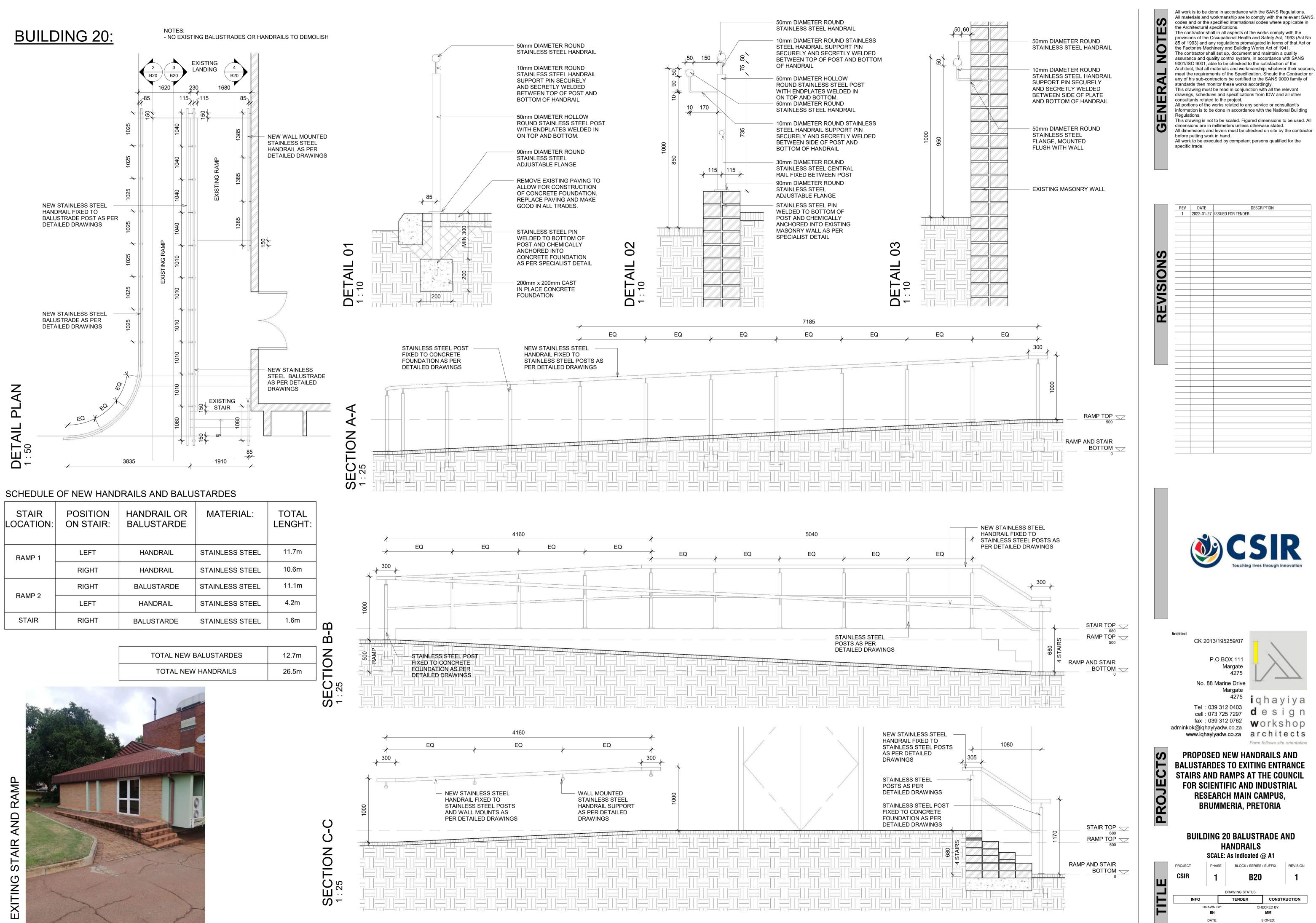
⁴²⁷⁵ **i**qhayiya design workshop Form follows site orientation



PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

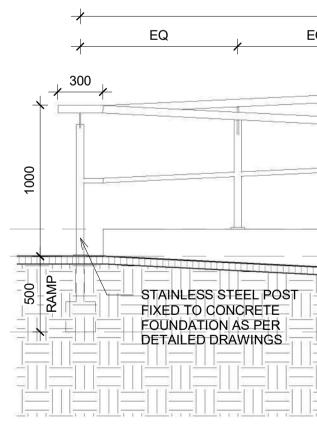
	BUILE		Η	5 BALUSTF IANDRAILS As indicated (ND
	PROJECT	PHAS	SE	BLOCK / SERIES	/ SUFFIX	REVISION
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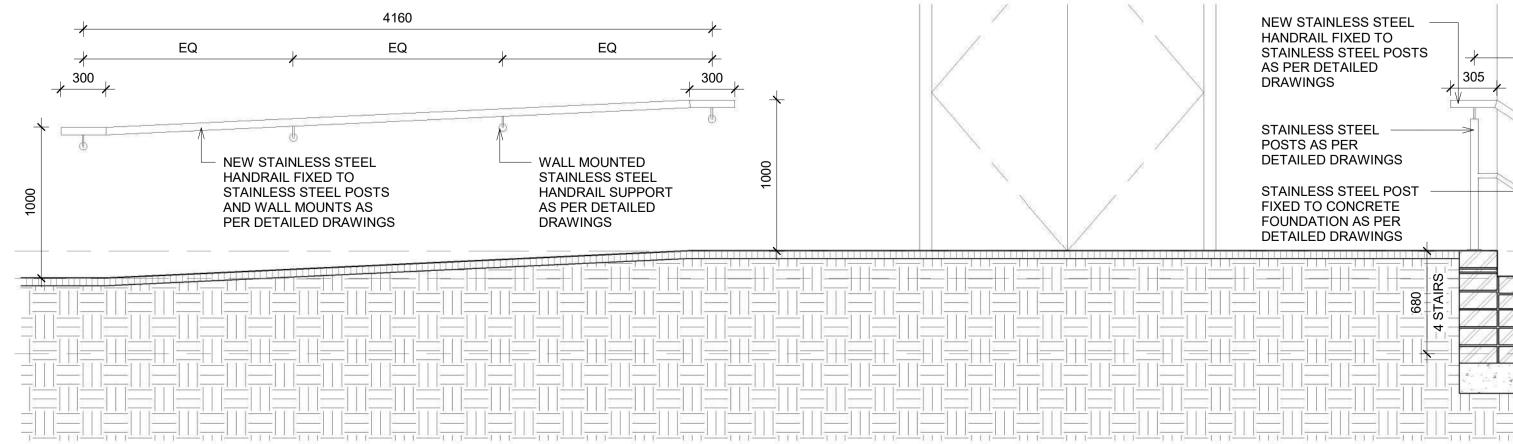
DATE: 28-Jan-2022 2:12:16 PM



STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
RAMP 1	LEFT	HANDRAIL	STAINLESS STEEL	11.7m
	RIGHT	HANDRAIL	STAINLESS STEEL	10.6m
	RIGHT	BALUSTARDE	STAINLESS STEEL	11.1m
RAMP 2	LEFT	HANDRAIL	STAINLESS STEEL	4.2m
STAIR	RIGHT	BALUSTARDE	STAINLESS STEEL	1.6m
	,			

TOTAL NEW BALUSTARDES	12.7m	Z
TOTAL NEW HANDRAILS	26.5m	Ĕ



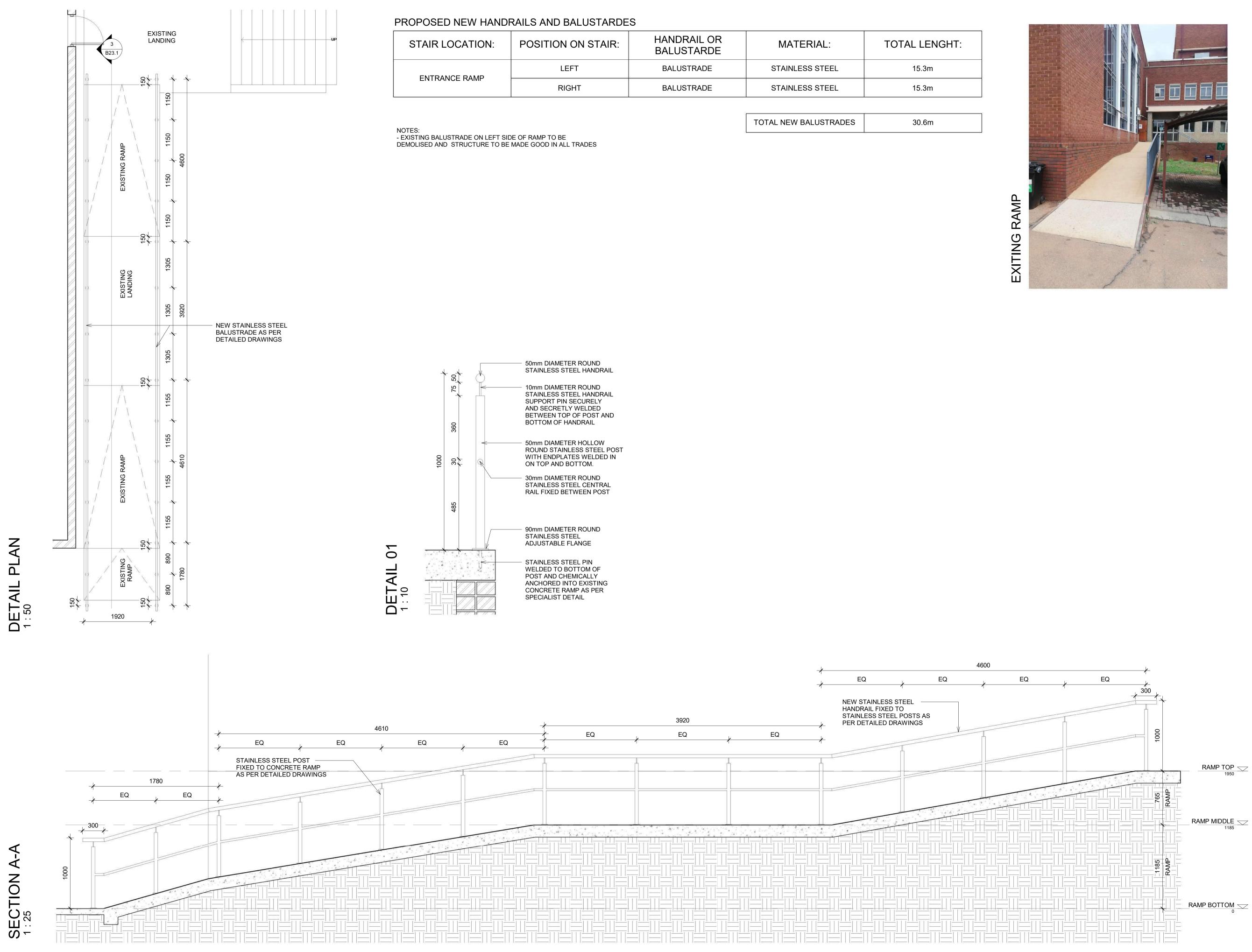




	P	TAINLESS STEEL	

28-Jan-2022 2:13:18 PM

BUILDING 23: ENTRANCE



SITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
LEFT	BALUSTRADE	STAINLESS STEEL	15.3m
RIGHT	BALUSTRADE	STAINLESS STEEL	15.3m



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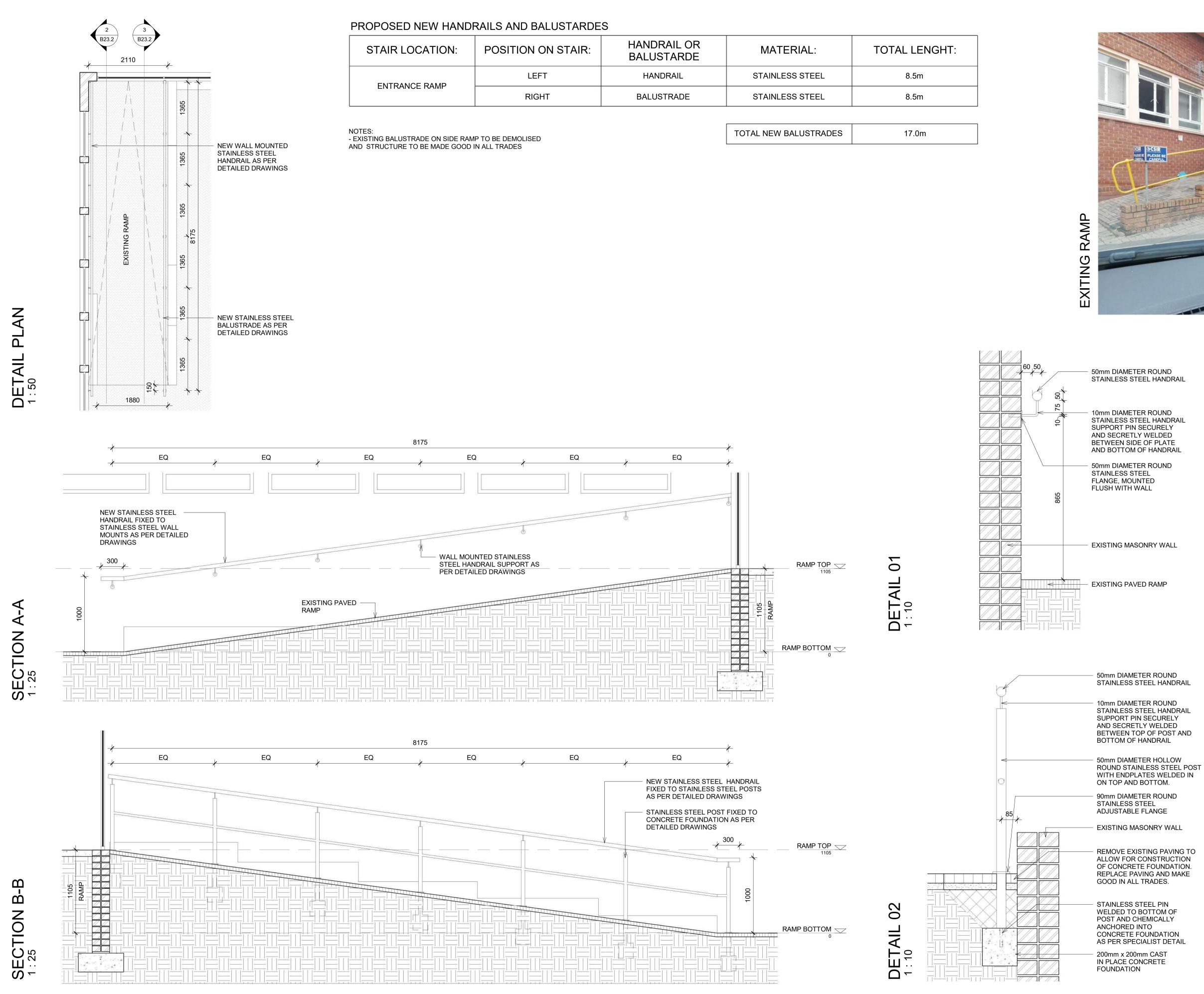


PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

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BUILDING 23: TUT ENTRANCE



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HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
HANDRAIL	STAINLESS STEEL	8.5m
BALUSTRADE	STAINLESS STEEL	8.5m
	TOTAL NEW BALUSTRADES	17.0m
	BALUSTARDE	BALUSTARDE IMATERIAL: HANDRAIL STAINLESS STEEL BALUSTRADE STAINLESS STEEL



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BH DATE:

PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

BUILDING 23 BALUSTRADE AND HANDRAILS 02 SCALE: As indicated @ A1				
PROJECT	PHASE	BLOCK / SERIES / SUFFIX	REVISIO	
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DRAWING STATUS				

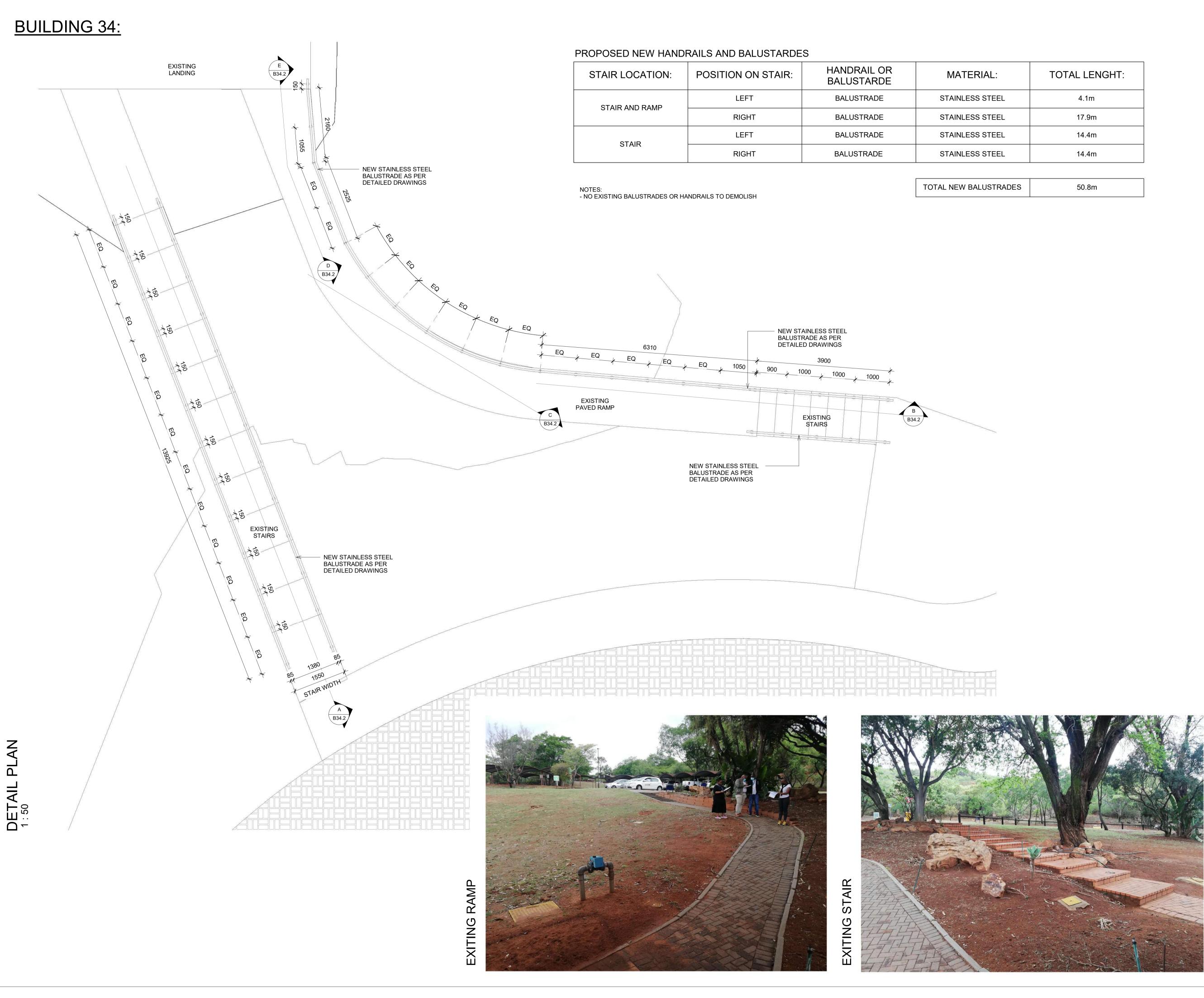
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STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:		
STAIR AND RAMP	LEFT	BALUSTRADE	STAINLESS STEEL	4.1m		
	RIGHT	BALUSTRADE	STAINLESS STEEL	17.9m		
STAIR	LEFT	BALUSTRADE	STAINLESS STEEL	14.4m		
STAIR	RIGHT	BALUSTRADE	STAINLESS STEEL	14.4m		

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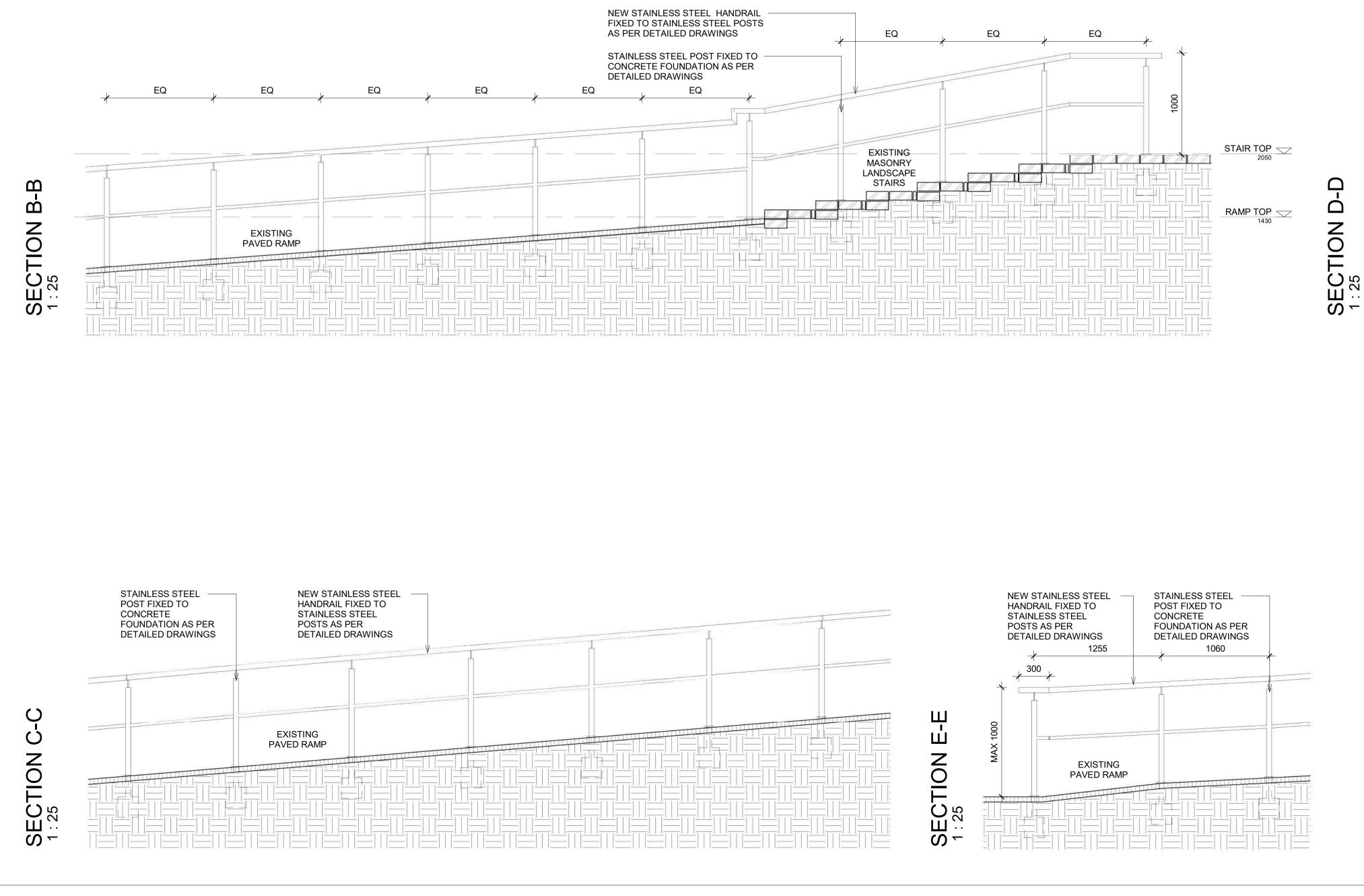
PROPOSED NEW HANDRAILS AND **BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL** FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

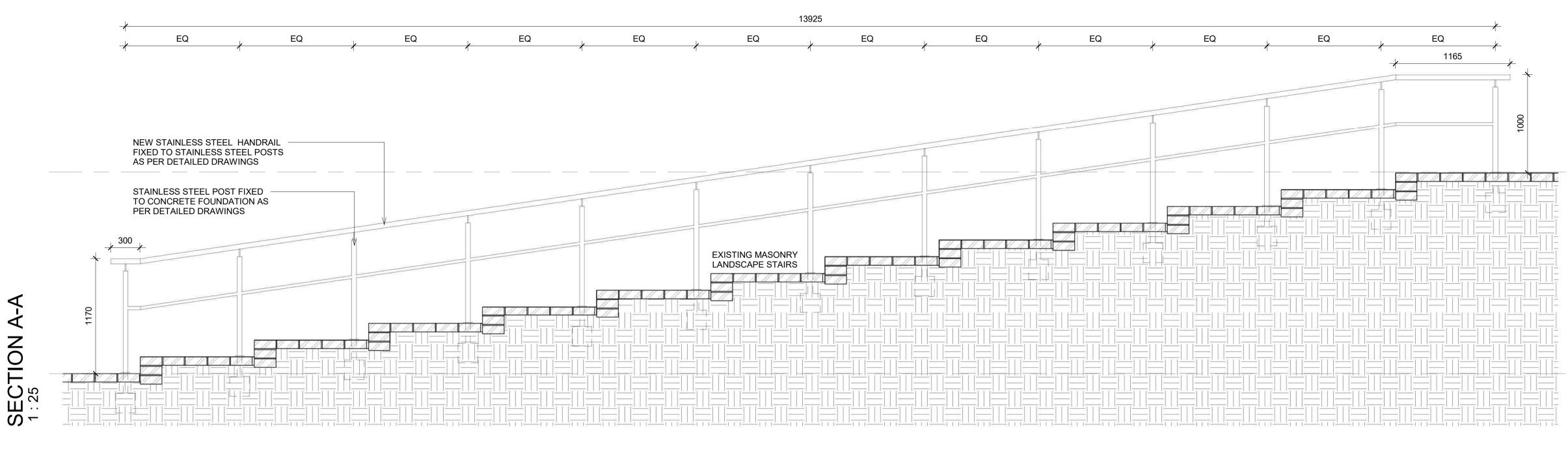
BUILDING 34 BALUSTRADE AND HANDRAILS 01 SCALE: As indicated @ A1 BLOCK / SERIES / SUFFIX REVISION PHASE PROJECT CSIR B34.1 1 DRAWING STATUS TENDER CONSTRUCTION INFO

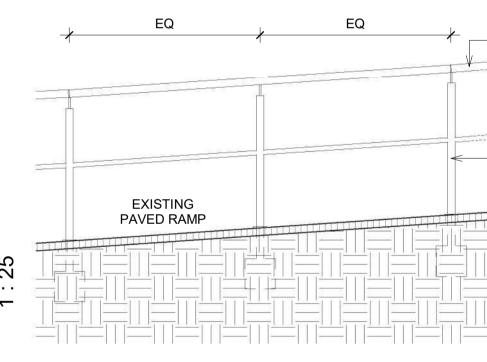
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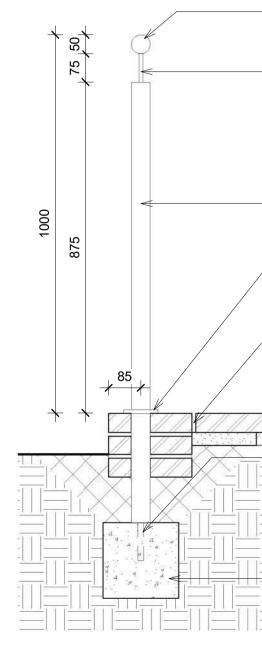
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ETAIL 10

STAIR BOTTOM 🤝

NEW STAINLESS STEEL HANDRAIL FIXED TO STAINLESS STEEL POSTS AS PER DETAILED DRAWINGS

STAINLESS STEEL POST FIXED TO CONCRETE FOUNDATION AS PER DETAILED DRAWINGS

- 50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL

200mm x 200mm CAST IN PLACE CONCRETE FOUNDATION

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PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

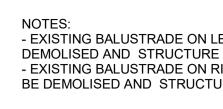
BUILDING 34 BALUSTRADE AND HANDRAILS 02 SCALE: As indicated @ A1						
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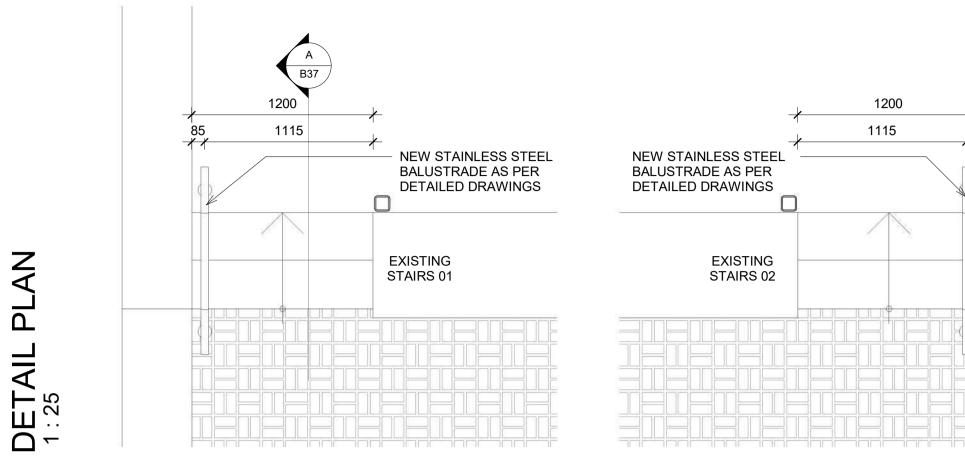
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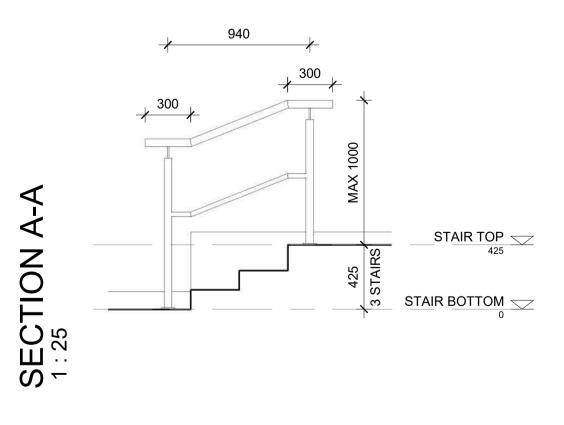
BUILDING 37:

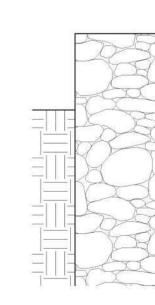




PROPOSED NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
PARKING STAIR	LEFT	BALUSTRADE	STAINLESS STEEL	1.3m
PARKING STAIR	LEFT	BALUSTRADE	STAINLESS STEEL	1.3m



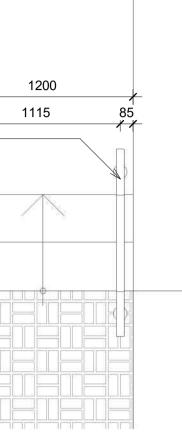


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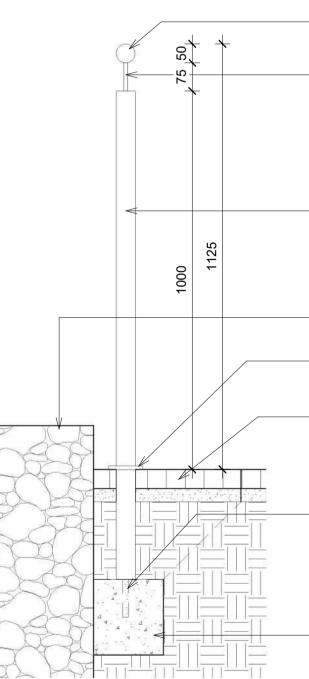
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DET/ 1:10

- EXISTING BALUSTRADE ON LEFT SIDE OF EXISTING STAIR 01 TO BE DEMOLISED AND STRUCTURE TO BE MADE GOOD IN ALL TRADES - EXISTING BALUSTRADE ON RIGHT SIDE OF EXISTING STAIR 02 TO BE DEMOLISED AND STRUCTURE TO BE MADE GOOD IN ALL TRADES



TOTAL NEW BALUSTARDES 2.6m



50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND STAINLESS STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

50mm DIAMETER HOLLOW ROUND STAINLESS STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

EXISTING NATURAL STONE WALL

90mm DIAMETER ROUND STAINLESS STEEL ADJUSTABLE FLANGE

REMOVE EXISTING PAVING TO ALLOW FOR CONSTRUCTION OF CONCRETE FOUNDATION. REPLACE PAVING AND MAKE GOOD IN ALL TRADES.

- STAINLESS STEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO CONCRETE FOUNDATION AS PER SPECIALIST DETAIL

200mm x 200mm CAST IN PLACE CONCRETE FOUNDATION



EXITING

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specific trade.

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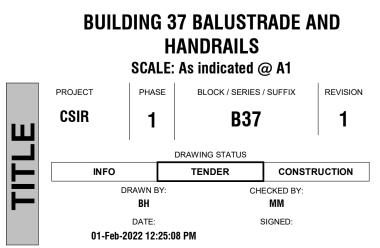
P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

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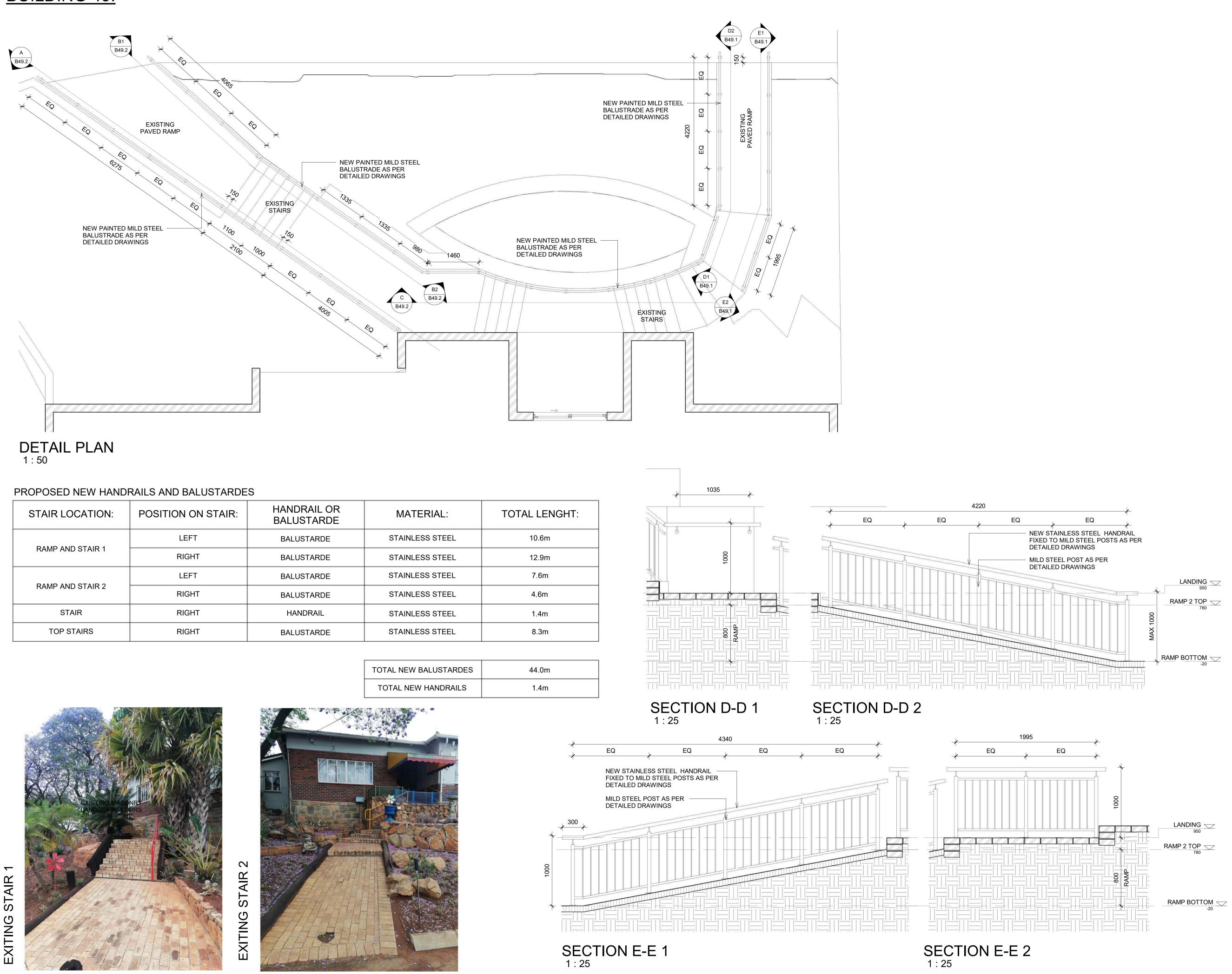


⁴²⁷⁵ iqhayiya design workshop Form follows site orientation



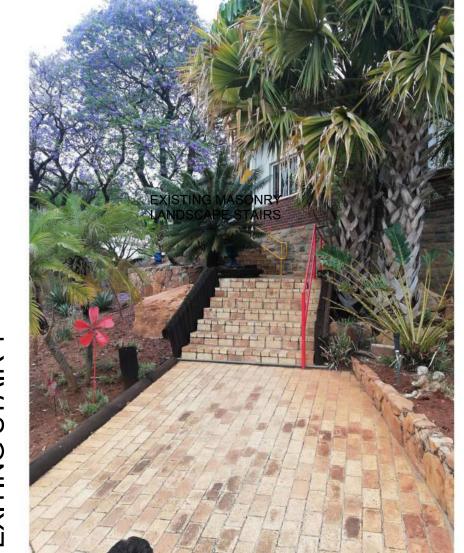


BUILDING 49:

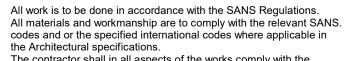


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	STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	ΤΟΤΑ
		LEFT	BALUSTARDE	STAINLESS STEEL	
	RAMP AND STAIR 1	RIGHT	BALUSTARDE	STAINLESS STEEL	
		LEFT	BALUSTARDE	STAINLESS STEEL	
	RAMP AND STAIR 2	RIGHT	BALUSTARDE	STAINLESS STEEL	
	STAIR	RIGHT	HANDRAIL	STAINLESS STEEL	
	TOP STAIRS	RIGHT	BALUSTARDE	STAINLESS STEEL	

TOTAL NEW BALUSTARDES	
TOTAL NEW HANDRAILS	









the Architectural specifications. The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 9001/ISO 9001, able to be checked to the satisfaction of the 9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or any of his sub-contractors be certified to the SANS 9000 family of standards then monitor these works accordingly.

This drawing must be read in conjunction with all the relevant drawings, schedules and specifications from IDW and all other consultants related to the project. All portions of the works related to any service or consultant's information is to be done in accordance with the National Building

Regulations.

This drawing is not to be scaled. Figured dimensions to be used. All dimensions are in millimeters unless otherwise stated. All dimensions and levels must be checked on site by the contractor before putting work in hand.

All work to be executed by competent persons qualified for the specific trade.

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Architect

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P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate



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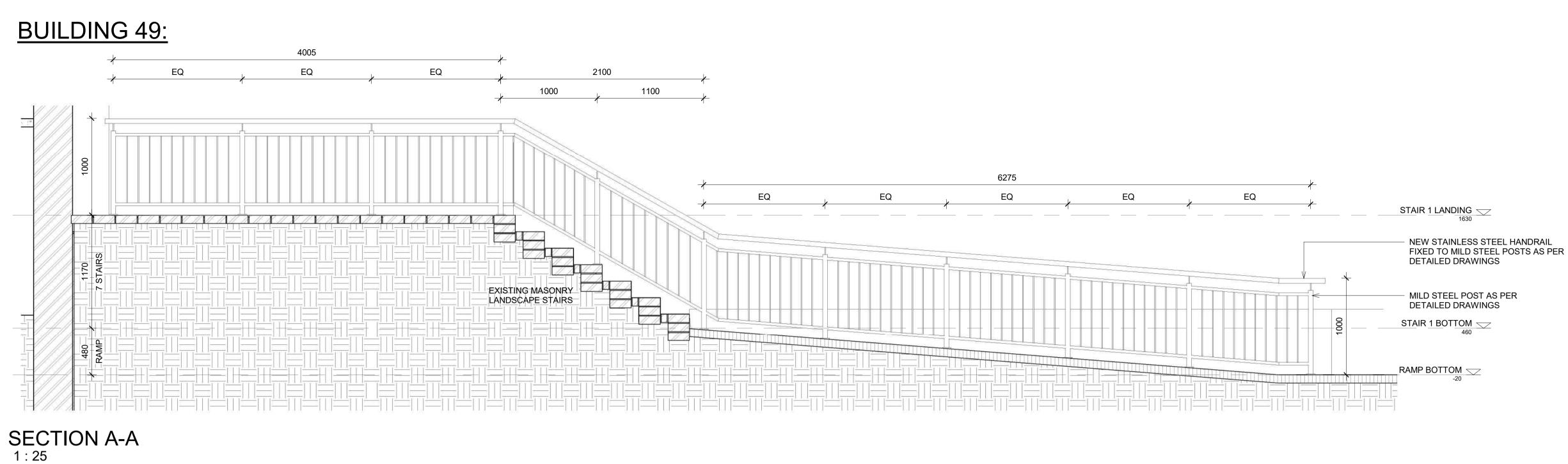
PROPOSED NEW HANDRAILS AND **BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL** FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS**, **BRUMMERIA, PRETORIA**

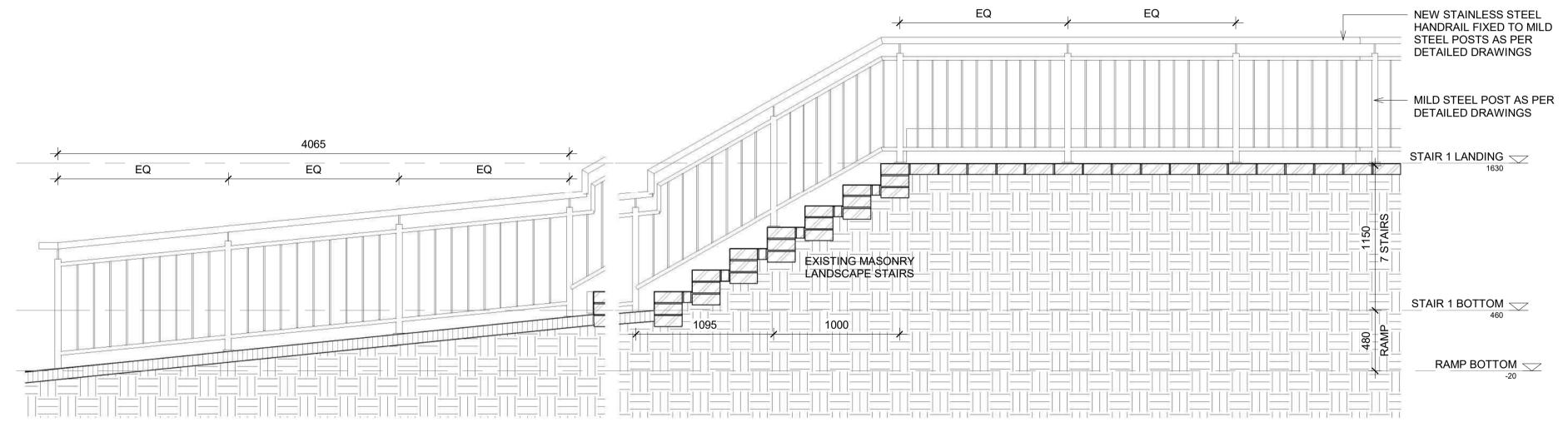
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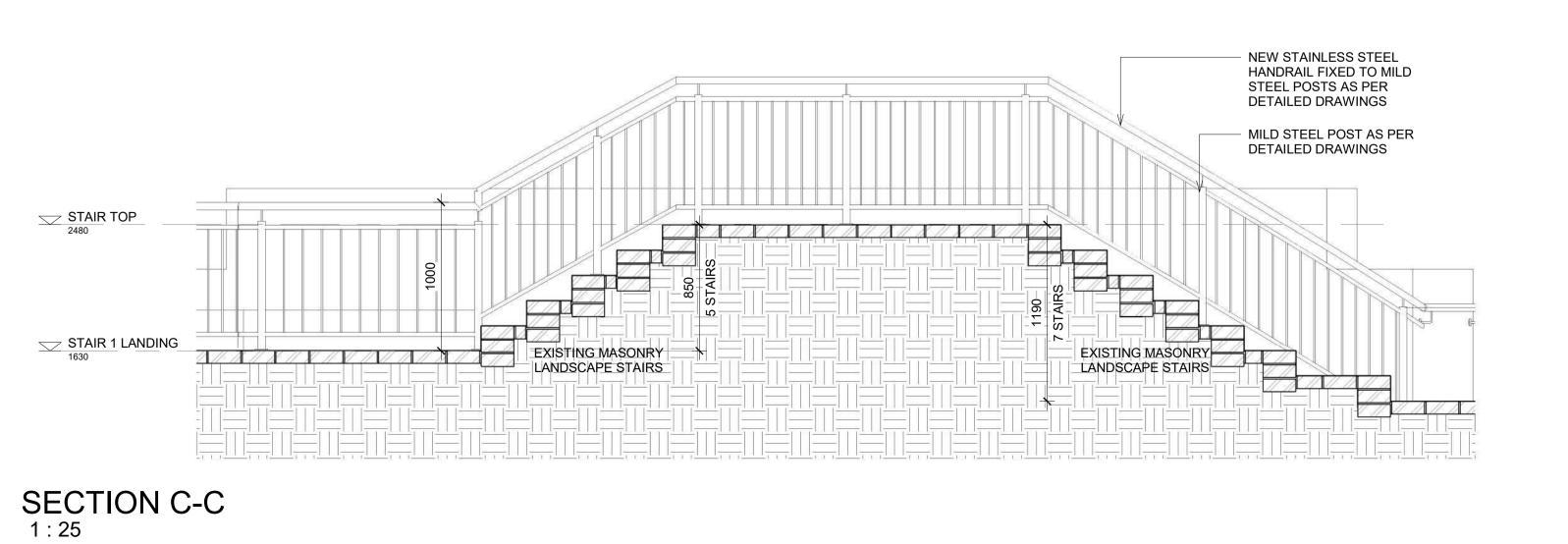


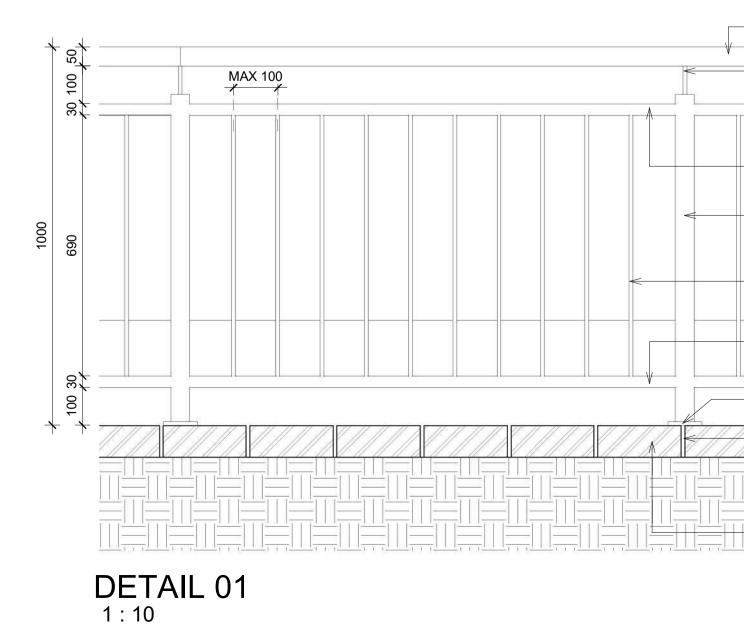




SECTION B-B 1 1 : 25

SECTION B-B 2 1 : 25





All work is to be done in accordance with the SANS Regulations. All materials and workmanship are to comply with the relevant SANS. codes and or the specified international codes where applicable in the Architectural specifications.

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The contractor shall in all aspects of the works comply with the The contractor shall in all aspects of the works comply with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and any regulations promulgated in terms of that Act or the Factories Machinery and Building Works Act of 1941. The contractor shall set up, document and maintain a quality assurance and quality control system, in accordance with SANS 9001/JSO 9001, able to be specied to the satisfaction of the 9001/ISO 9001, able to be checked to the satisfaction of the Architect, that all materials and workmanship, whatever their sources, meet the requirements of the Specification. Should the Contractor or any of his sub-contractors be certified to the SANS 9000 family of

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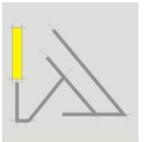
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P.O BOX 111 Margate 4275 No. 88 Marine Drive Margate

Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za



iqhayiya design workshop www.iqhayiyadw.co.za architects Form follows site orientation

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PROPOSED NEW HANDRAILS AND BALUSTARDES TO EXITING ENTRANCE STAIRS AND RAMPS AT THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL **RESEARCH MAIN CAMPUS, BRUMMERIA, PRETORIA**

	BUILC	ł	łA	9 BALUSTF NDRAILS 0 As indicated (2	ND
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50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

10mm DIAMETER ROUND MILD STEEL HANDRAIL SUPPORT PIN SECURELY AND SECRETLY WELDED BETWEEN TOP OF POST AND BOTTOM OF HANDRAIL

30mm DIAMETER HOLLOW ROUND MILD STEEL TOP RAIL WELDED BETWEEN POSTS 50mm DIAMETER HOLLOW ROUND MILD STEEL POST WITH ENDPLATES WELDED IN ON TOP AND BOTTOM.

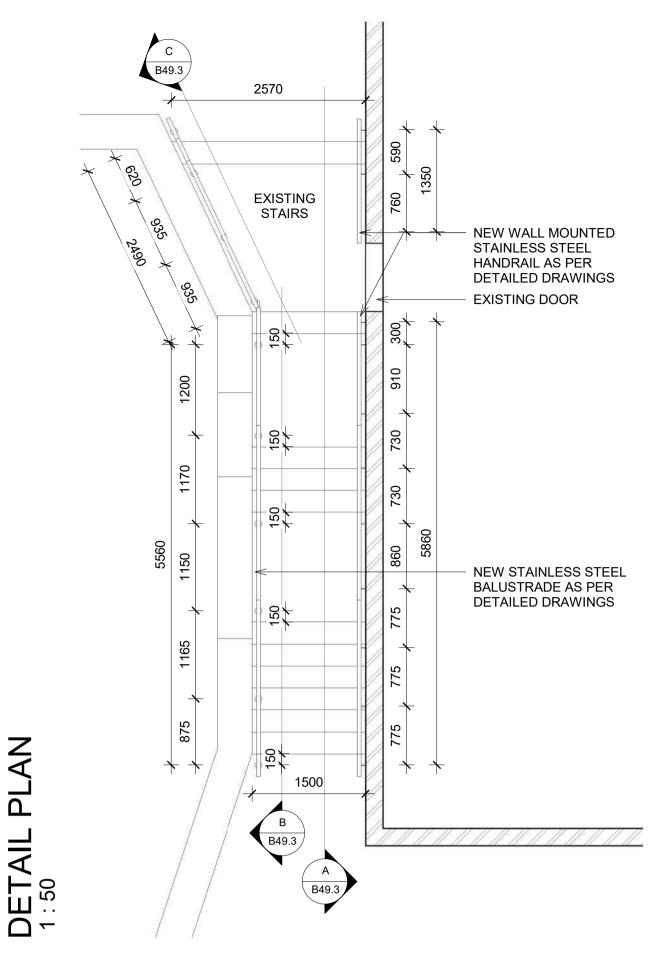
10mm DIAMETER ROUND MILD STEEL BARS WELDED BETWEEN TOP AND BOTTOM RAIL

30mm DIAMETER HOLLOW ROUND MILD STEEL BOTTOM RAIL WELDED BETWEEN POSTS

90mm DIAMETER ROUND MILD STEEL ADJUSTABLE FLANGE MILDSTEEL PIN WELDED TO BOTTOM OF POST AND CHEMICALLY ANCHORED INTO EXISTING STRUCTURE AS PER SPECIALIST DETAIL

EXISTING LANDSCAPED STAIRS

BUILDING 49: DELIVERY ENTRANCE



PROPOSED NEW HANDRAILS AND BALUSTARDES

STAIR LOCATION:	POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
	LEFT	HANDRAIL	STAINLESS STEEL	1.6m
DELIVERY	LEFT	HANDRAIL	STAINLESS STEEL	6.5m
ENTRANCE	RIGHT	BALUSTARDE	STAINLESS STEEL	2.9m
	RIGHT	BALUSTARDE	STAINLESS STEEL	6.6m

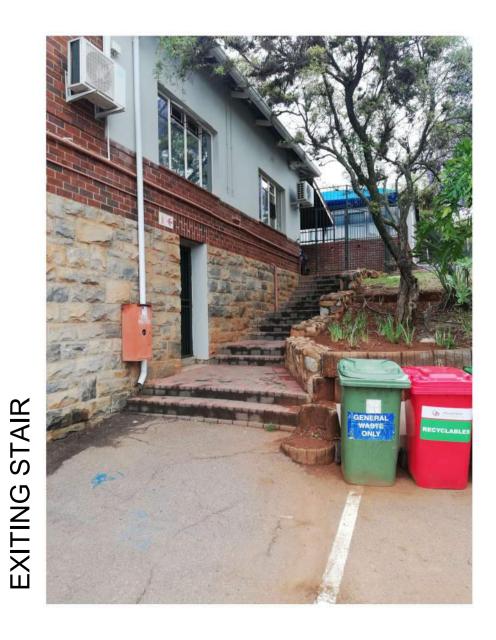
TOTAL NEW BALUSTARDES	9.5m
TOTAL NEW HANDRAILS	8.1m

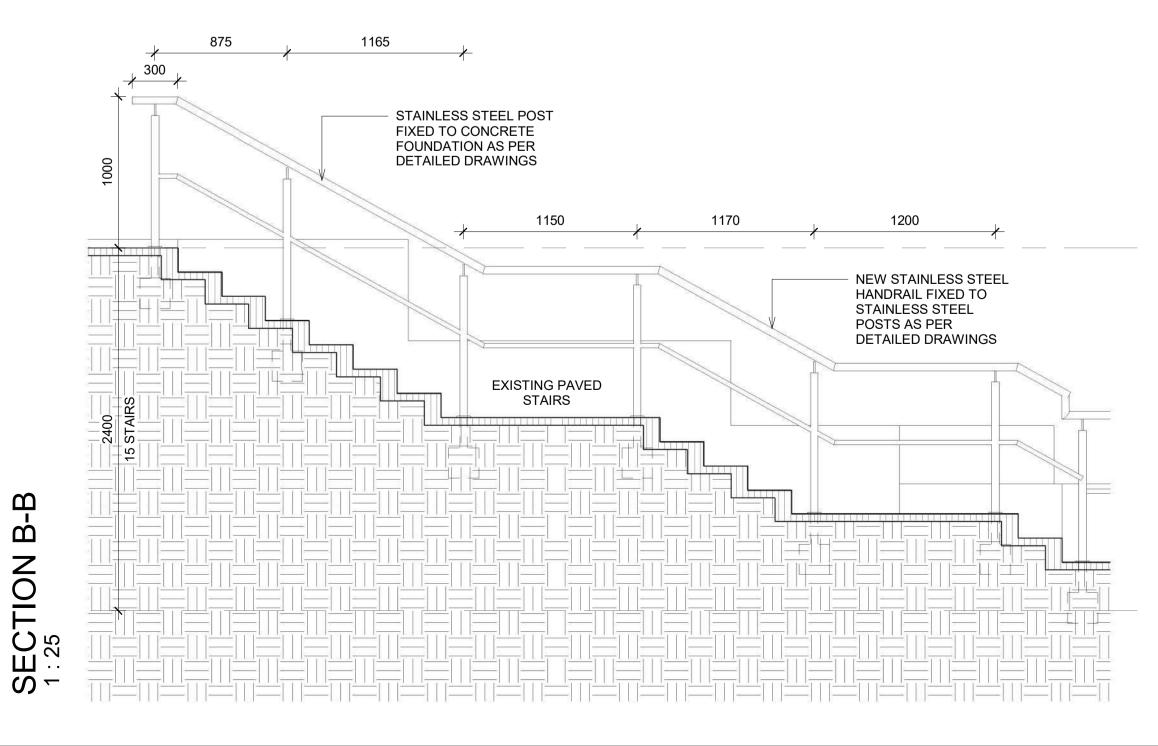
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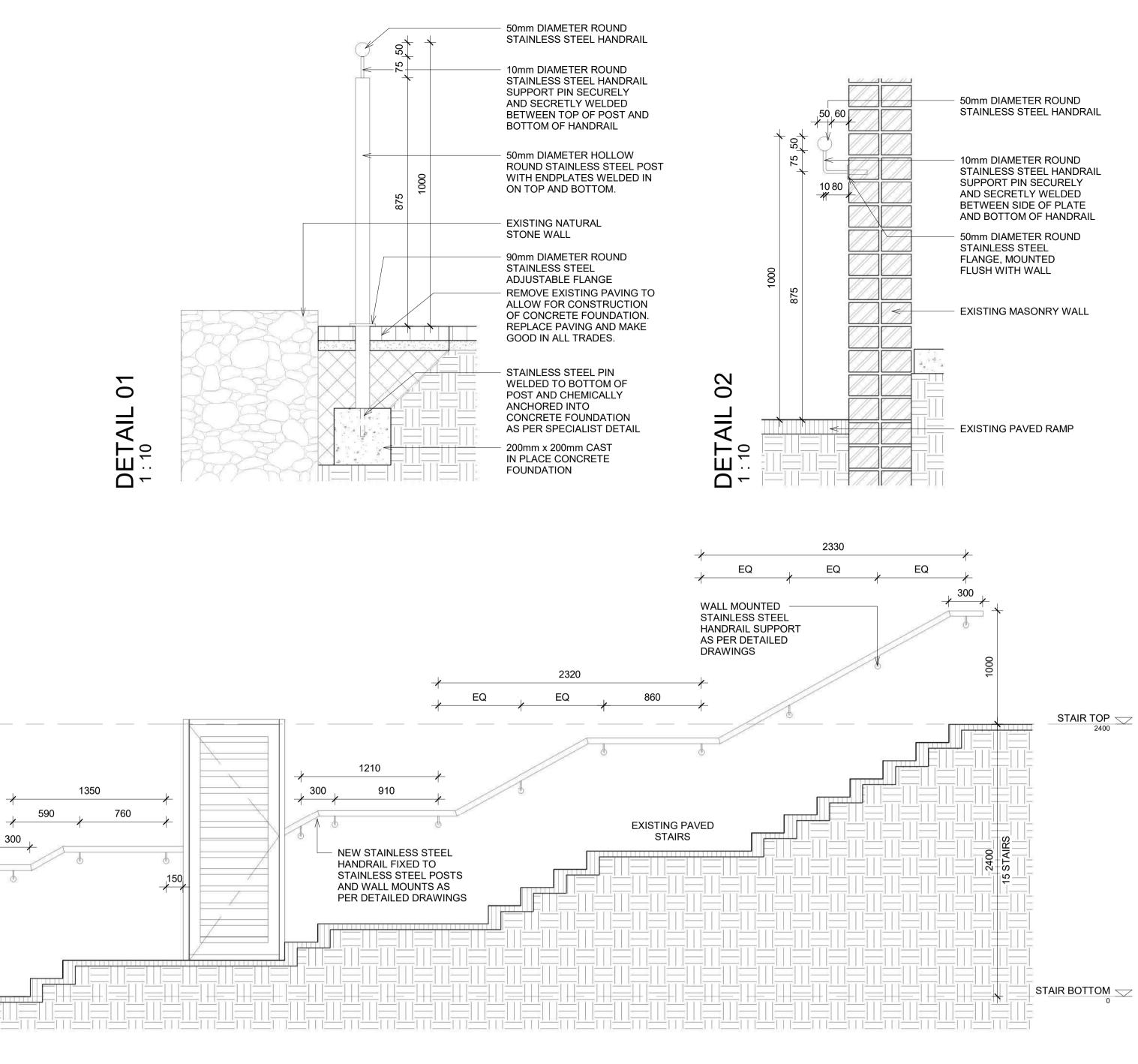
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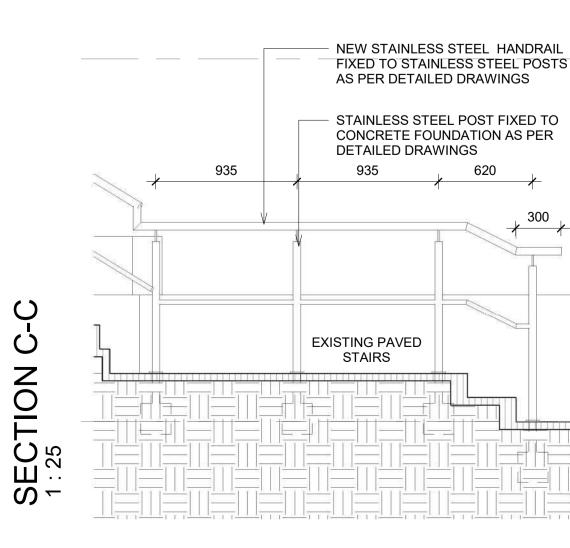


NOTES: - NO EXISTING BALUSTRADES OR HANDRAILS TO DEMOLISH



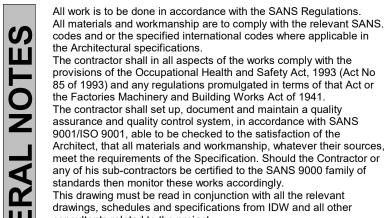






50mm DIAMETER ROUND STAINLESS STEEL HANDRAIL

STAINLESS STEEL HANDRAIL AND BOTTOM OF HANDRAIL



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consultants related to the project. All portions of the works related to any service or consultant's information is to be done in accordance with the National Building Regulations.

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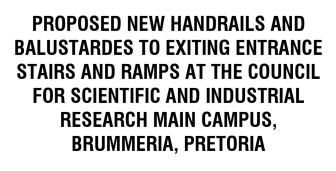
4275 No. 88 Marine Drive Margate 4275

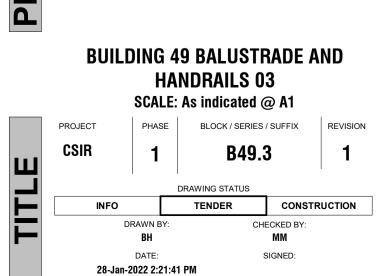
Tel : 039 312 0403 cell : 073 725 7297 fax : 039 312 0762 adminkok@iqhayiyadw.co.za www.iqhayiyadw.co.za architects



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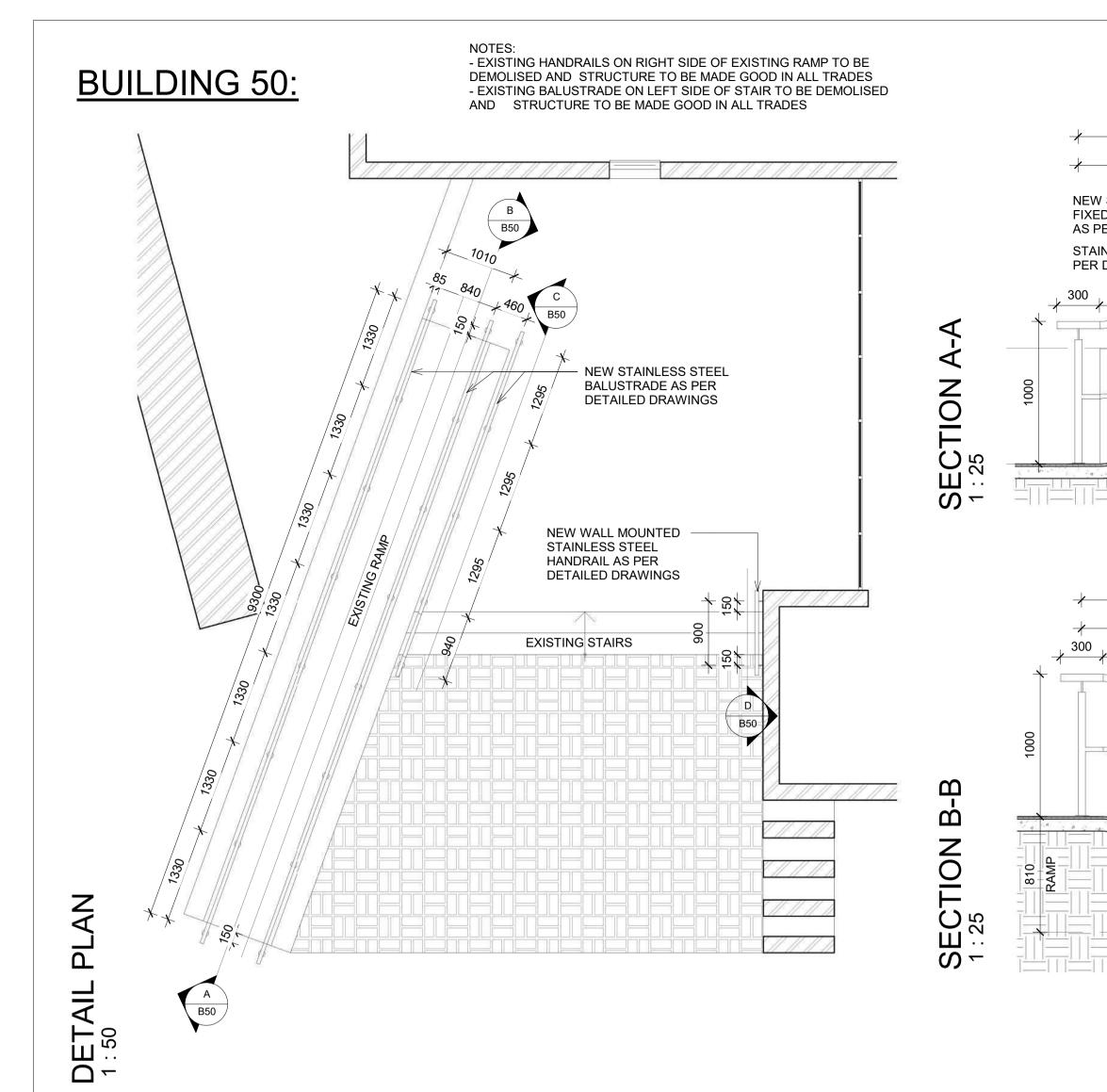
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PROPOSED NEW HANDRAILS AND BALUSTARDES

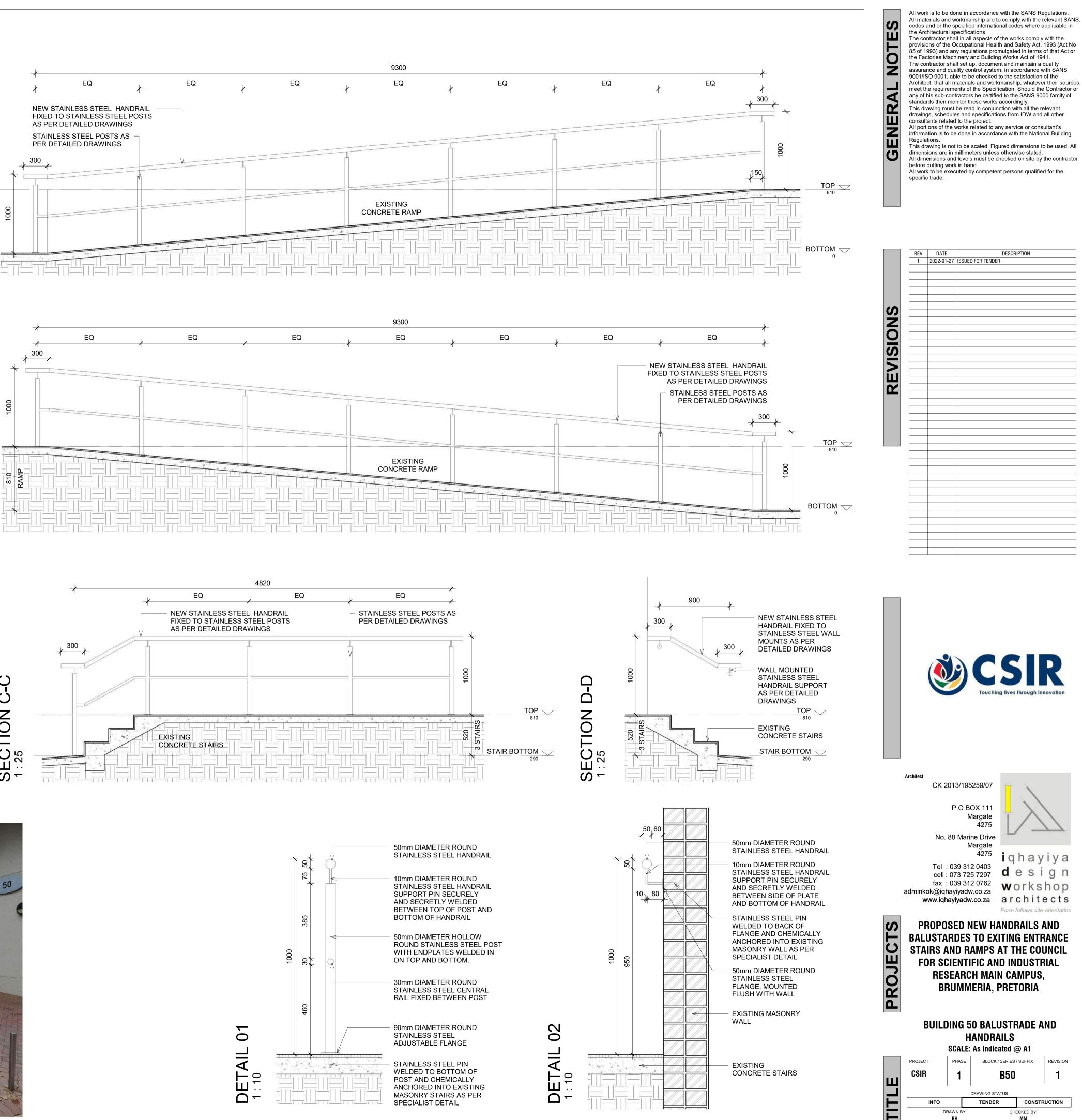
N	No	N	5)
POSITION ON STAIR:	HANDRAIL OR BALUSTARDE	MATERIAL:	TOTAL LENGHT:
LEFT	BALUSTARDE	STAINLESS STEEL	9.6m
CENTRAL	BALUSTARDE	STAINLESS STEEL	9.6m
RIGHT	BALUSTRADE	STAINLESS STEEL	5.2m
LEFT	HANDRAIL	STAINLESS STEEL	1.3m
	STAIR: LEFT CENTRAL RIGHT	STAIR:BALUSTARDELEFTBALUSTARDECENTRALBALUSTARDERIGHTBALUSTRADE	STAIR:BALUSTARDEIMATERIAL:LEFTBALUSTARDESTAINLESS STEELCENTRALBALUSTARDESTAINLESS STEELRIGHTBALUSTRADESTAINLESS STEEL

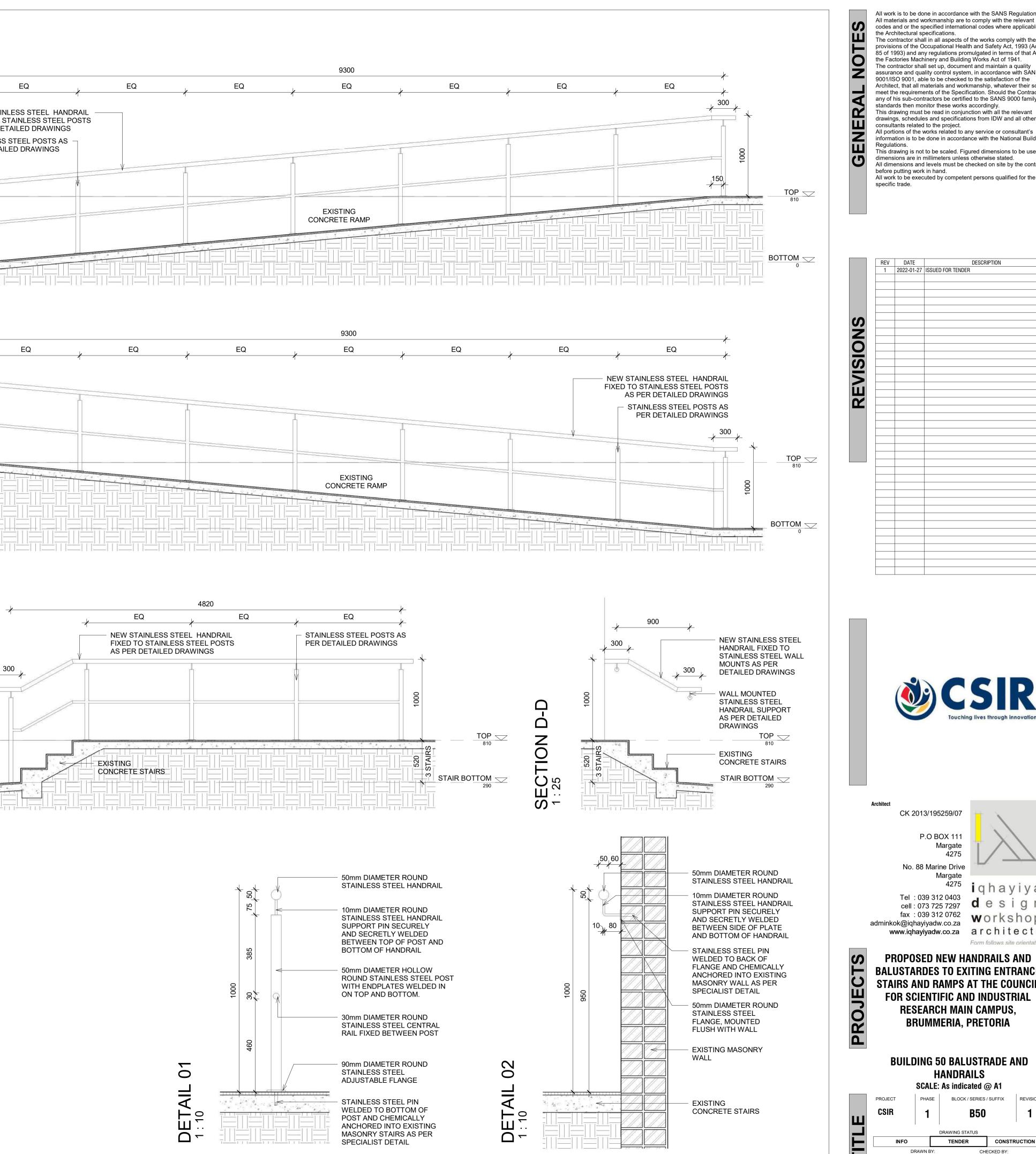
TOTAL NEW BALUSTARDES	24.4m
TOTAL NEW HANDRAILS	1.3m

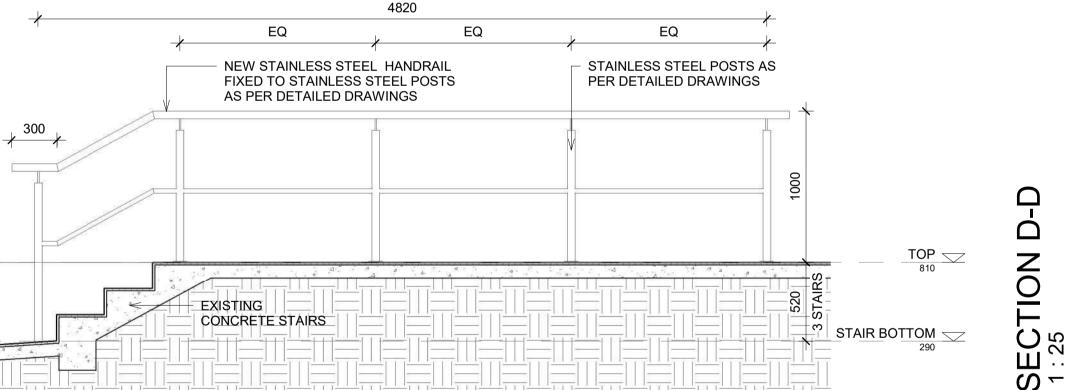


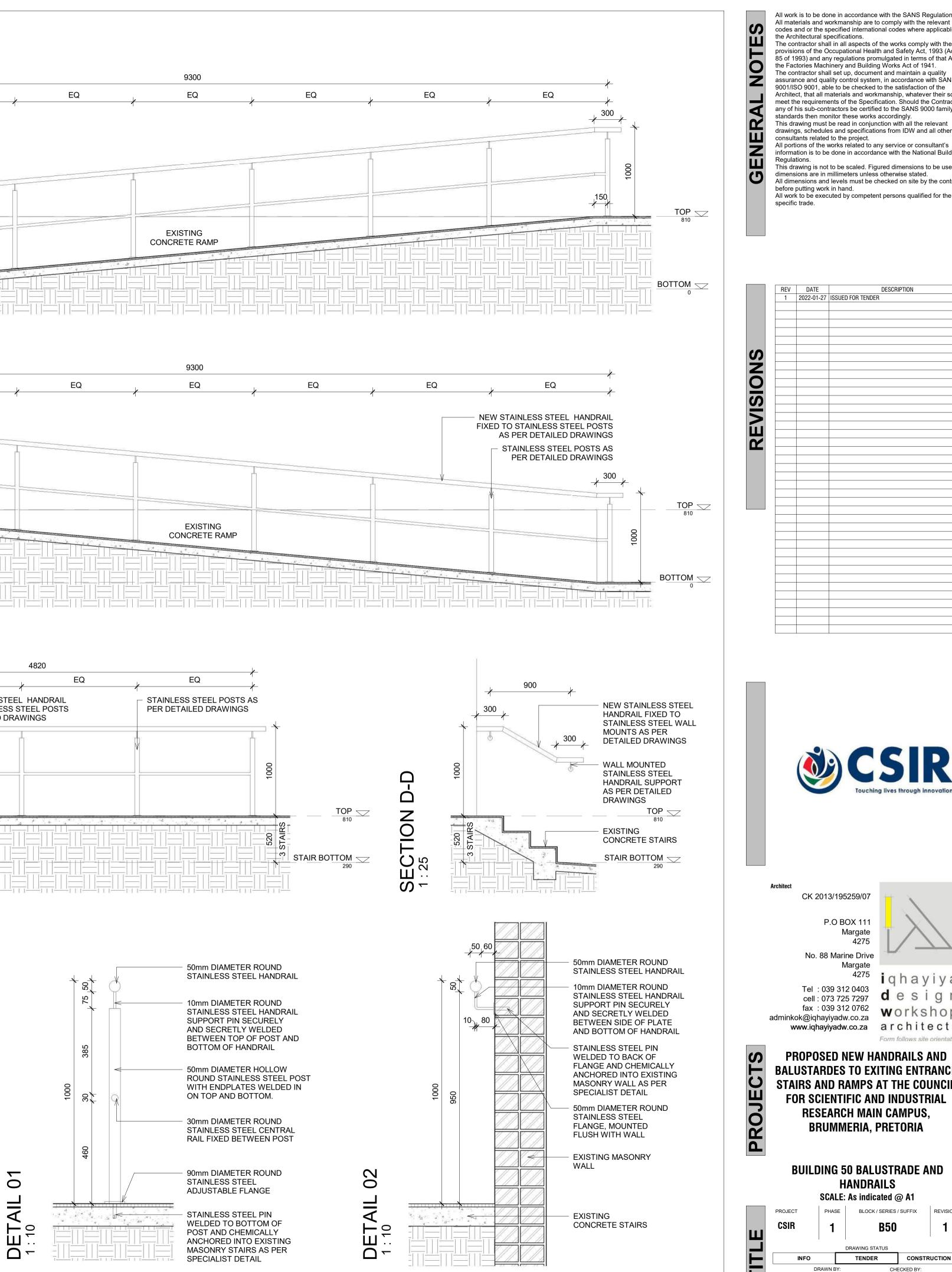












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