

DUE AT 11:00 ON

CLOSING DATE: 15 JUNE 2023

DWS06 0523 WTE

THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

SUBMIT BID DOCUMENTS TO:

POSTAL ADDRESS: DIRECTOR-GENERAL: WATER AND SANITATION PRIVATE BAG X313 PRETORIA, 0001 OR

TO BE DEPOSITED IN: THE BID BOX AT THE ENTRANCE OF ZWAMADAKA BUILDING 157 FRANCIS BAARD STREET PRETORIA, 0001

Compulsory Briefing Session

Date: 30 May 2023 <u>Time</u>: 14:00pm <u>Venue:</u> Contractors Site Office Boardroom - Clanwilliam Dam, Construction South Main Security Gate Entrance GPS Coordinates: 32°11'21.25"S and 18° 52' 26.11"E

BIDDER: (Company Address OR Stamp)



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Tender document compiled date: February 2023

Issued by: Department of Water and Sanitation Zwamadaka building 157 Francis Baard Street Pretoria 0001

Prepared by:

Clanwilliam dam Construction Raising of Clanwilliam dam Project Construction South Department of Water and Sanitation



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THE TENDER

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- T1.2 Tender data

Part T2: Returnable documents and schedules

- T2.1 List of Returnable documents and schedules
- T2.2 Returnable documents and schedules

THE CONTRACT

Part C1: Contract data

- C1.1 Pro-forma Form of offer and acceptance
- C1.2 Contract data
- C1.3 Pro-forma Performance guarantee

Part C2: Pricing data

- C2.1 Pricing Instructions
- C2.2 Bill of Quantities

Part C3: Scope of work

- C3.1 Standard Specifications
- C3.2 Project Specifications
- C3.3 Particular Specifications

Part C4: Site Information

C4.1 Tender Drawings



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T1.1 TENDER NOTICE AND INVITATION TO TENDER

It is estimated that Tenderers should have a CIDB Contractor grading designation of CIDB 8CE or higher.

Documents may be downloaded from Department of Water and Sanitation website at <u>www.dws.gov.za</u> and from National Treasury website at <u>www.etenders.gov.za</u>.

Queries relating to the issue of these documents may be addressed in writing to <u>bidenquirieswte@.gov.za</u> and <u>FrylinckA@dws.gov.za</u>

A compulsory site clarification meeting with representatives of the Employer will take place at Clanwilliam Dam Site at the Contractor Offices Boardroom (Main Security Gate Entrance GPS Coordinates: 32°11'21.25"S and 18° 52' 26.11"E – see submission data for further particulars) on 30 May 2023 starting at 14:00hrs.

The closing time for receipt of tenders is 11:00 hrs on 15 June 2023 Telegraphic, telephonic, telex, facsimile, e-mail and late tenders will not be accepted.

Tenders may only be submitted on the tender documentation that is issued.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.



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T1.2 TENDER DATA

IMPORTANT INFORMATION

PLEASE READ CAREFULLY THROUGH THE ENTIRE TENDER DOCUMENT BEFORE COMPLETING THE DOCUMENT.

TENDER AND CONTRACT STANDARDS CONDITIONS APPLICABLE TO THIS DOCUMENT

SANS ISO 10845-1: 2022 Ed 2	Processes, methods, and procedures.
SANS ISO 10845-2: 2022 Ed 2	Formatting and compilation of procurement documentation.
SANS ISO 10845-3: 2022 Ed 2	Standard conditions of tender.
GCC 2015 Ed 3	The General Conditions of Contract for Construction Works, 3rd Edition (2015), published by the South African Institution of Civil Engineering.

INSTRUCTIONS TO BIDDERS

All recipients of these bid documents, whether they submit a Bid or not, shall treat the details of the documents as PRIVATE AND CONFIDENTIAL.

T1.2.1 TENDER SPECIFIC DATA



The conditions of tender are those contained in the latest edition of SANS ISO 10845-3: 2022 Ed 2, Construction Procurement – Part 3: Standard conditions of tender.

SANS ISO 10845-3:2022 Ed 2 makes several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the provisions of SANS ISO 10845-3: 2022 Ed 2.

Each item of data given below is cross-referenced to the clause in SANS ISO 10845-3:2022 Ed 2 to which it mainly applies.

3 TERMS AND DEFINITIONS 3.1 Wherever reference is made in the documentation to Bill of Quantities it shall also mean Pricing Schedule or Schedule of Quantities. 3.19 Whenever reference is made in the documentation to Bidder or Tenderer it shall mean is the person or organization that submits a tender offer. (The successful Bidder will be appointed as Contractor as per GCC 2015- Clause 1.1.1.9) 4 GENERAL REQUIREMENTS 4.1 The Employer is the Department of Water and Sanitation: Construction South 4.2 The tender documents issued by the employer comprise the documents listed on the contents page 4.4 The employer's agent email address is: EnvinckA@dws.gov.za 5.1 TENDERER'S OBLIGATIONS 5.1 Only those Tenderers who satisfy the following eligibility criteria and who provide the required evidence in their tender submissions are eligible to submit tenders and have their tenders evaluated: An Entity is not eligible to submit tenders and have their tenders valuated: (a) the Bidder does not comply with the legal requirements of the Department's Procurement; (b) the Entity submitting the bid is under restrictions or has principals who are under restriction to participate in the Department's procurement due to corrupt of fraudulent practices; (c) the Bidder does not now the legal capacity to enter into the contract; (d) the Entity submitting the bid is insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer	Clause number	TENDER DATA		
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(i) the bid offer is not signed by a person authorized to sign on behalf of the Bidder;				
		(i) the bid offer is not signed by a person authorized to sign on behalf of the Bidder;		

Clause number	TENDER DATA
	(j) more than one bid has been submitted by a Bidder. Each Bidder shall submit only one bid for the same project, either individually as a Bidder or as a partner in a joint venture. No Entity can be a Sub-contractor while submitting a bid individually or as a partner of a joint venture in the same bidding process. An Entity, if acting in the capacity of Sub-contractor in any bid, may participate in more than one bid, but only in that capacity. A Bidder who submits or participates in more than one bid will cause all the proposals in which the Bidder has participated to be disqualified.
5.1	Only those Tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a Contractor grading designation equal to or higher than a Contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a CIDB 8 CE or higher class of construction work, are eligible to have their tenders evaluated.
	All projects of R60m and above must apply the Standard for Indirect Targeting for Enterprise Development.
	Joint ventures are eligible to submit tenders provided that:
	 every member of the joint venture is registered with the CIDB;
	2. the lead partner has a Contractor grading designation in the CIDB 7CE or higher class of construction work; and
	the combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a Contractor grading designation determined in accordance with the sum tendered for a CIDB 8CE or higher class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.
5.5	The tenderer shall obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are incorporated into the tender documents by reference.
5.7	The arrangements for a compulsory site clarification meeting are as stated in the Tender Notice and Invitation to Tender. (Site clarification meeting is also referred to as site briefing session.)
	The dam site is situated on the Olifants River, immediately next to the N7 and accessed through a controlled gate approximately 2 km South- West of Clanwilliam Town in the Western Cape province. The gravel site access roads is regularly maintained but can get challenging under abnormal rainfall conditions.
	Personal Protective Equipment (PPE) such as safety boots will be required before entering the site to examine some aspects of the works
	A full-time employee of the respondent who is involved in the preparation of submissions shall sign the attendance list in the name of the respondent. Addenda will be issued to, and respondents will be evaluated from only from those respondents appearing on the attendance list.
5.10	Tenderers are required to state the rates and currencies in South African Rand (ZAR).
5.11	No alterations, omissions or additions shall be made to this document, but should it be deemed necessary to do so, the Bidder is at liberty to qualify his bid.
	Bidders shall be deemed to have waived, renounced and abandoned any conditions printed or written upon any stationery used by them for the purpose of or in connection with the submission of bids which are in conflict with the conditions laid down in this document.
	Bidders shall not make any alterations or additions to the bid documents, except to comply with instructions issued by the Department, or necessary to correct errors made by the Bidder. All signatories to the bid offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.
5.12	No alternative tender offers will be considered.
5.13.1	Parts of each tender offer communicated on paper shall be submitted as an original, plus one (1) copies.
	The tenderer is requested to also provide a PDF (soft) copy of the complete tender submission in electronic format on a flash disk and to include this in their tender submission.

Clause number	TENDER DATA			
5.13.2	An Entity is not eligible to submit a bid if the bid offer is not signed by a person authorized to sign on behalf of the Bidder. Each page of the completed document that will be submitted should be initialled by the Bidder at the bottom of the page.			
	State clearly in Form D under T2.2 returnable documents and schedules, the authorised signatories that are liable on the behalf of the Tenderer, with proof from the employer and or company.			
5.13.2	If the bid is submitted by joint venture of more than one person and/or Companies and/or firms it shall be accompanied by the following:			
	 (a) The original or a notarial certified copy of the original document under which such joint venture was constituted which must define precisely inter alia the conditions under which the joint venture will function, its period of duration and the participation of the several constituent persons and/or companies and/or firms. (b) A certificate signed by or on behalf of each participating person and/or company and/or firm authorising the person who signed the bid to do so. 			
5.13.5 5.15	The ORIGINAL printed, completed tender document together with a cover letter and all supporting documents needs to be placed and sealed in an envelope. The enveloped needs to be clearly marked as below indicated.			
5.15	The details and address for delivery of tender offers and identification details that are to be shown on the envelope: 1) <u>Tender Identical details:</u>			
	Tender reference number: DWS06 0523 WTE			
	Title of Tender:THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OFREINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OFCLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE ORHIGHER			
	2) The details and address for delivery of tender offers and closing time are: Location of tender box: THE BID BOX AT THE ENTRANCE Physical address: ZWAMADAKA BUILDING			
	157 FRANCIS BAARD STREET, PRETORIA, 0001			
	Closing date & time: 15 June 2023 at 11:00 hrs.			
	3) Name of the Bidder (shall be clearly shown)			
5.13.5	The "ORIGINAL" and "COPY" are to be submitted as separate packages. The PDF soft copy on USB Flash drive to be submitted together with the "ORIGINAL" packages.			
5.13.6	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers shall NOT be accepted.			
5.15	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.			
5.16	The tender offer validity period is for 120 days.			
5.18	Provide, on request by the employer, any other material that has bearing on the tender offer within 5 working days of request.			
5.19	The employer reserve the right to arrange access for the following inspections, tests, and analysis at Bidder's facilities.			
5.20	The Tenderer is required to submit with his tender a letter of intent from an approved insurer undertaking to provide the Performance Guarantee to the format included in Part C1.3 of this procurement document. (See also GCC 2015: Clause 6.2 – Security.)			
6	EMPLOYER'S UNDERTAKINGS			
6.1	The Employer will respond to requests for clarification received up to seven (7) working days before the tender closing time.			
6.2	The employer shall issue addenda until four (4) working days before tender closing time.			

Clause number	TENDER DATA
6.4	Tenders will be opened immediately after the closing time for tenders at 11:00 hrs.
6.8	TEST FOR RESPONSIVENESS: Bids will be evaluated in accordance with the new Preferential Procurement Regulations, 2022, using 90/10 preference points system as prescribed in the Preferential Procurement Policy Framework Act (PPPFA, Act 5 of 2000). The lowest acceptable bid will score 90 points for price and a maximum of 10 points will be awarded for the specific goals. Maximum of 100 points will be scored for functionality (quality). Bids received will be evaluated on the five (5) phases namely: (1) Mandatory Requirements, (2) Administrative Compliance, (3) Functionality (5.11.9), (4) Price & Preference (5.11.7 & 5.11.8), & (5) Evaluation Method 4 (5.11.5).
6.8	 <u>PHASE 1: MANDATORY REQUIREMENTS:</u> Failure to submit any of the documents listed below will render your bid non-responsive and the bid will be disqualified. CIDB registration in terms of construction industry development board (CIDB) grade. (As per clause 4.1) Certificate of attendance at the compulsory site briefing session and or sign on the attendance register. Contract manager: Must have a Civil Engineering Diploma <u>OR</u> BTech <u>OR</u> Degree qualification <u>together with</u>, SACPCMP registration with 10 years work experience as a contracts manager post registration <u>OR</u> a valid Professional Engineering (PR. Eng / PR.Eng Tech / PR Eng Techni) registration with ECSA as a Civil Engineer or Technologist or Technician with at least 10 years post registration work experience as a contracts manager. Steel fixer/s (for the head of a team): Must have a valid Certificated of NFQ Level 2 with SAQA, Unit Standard Title "Assemble, tie and install reinforcing cages".

TENDER DATA					
2) PHASE 2: ADMINISTRATIVE COMPLIANCE					
Bidders are required to comply with the following listed below:					
No	Criteria	Yes	N		
1	Companies must be registered with National Treasury's Central Supplier Database must submit CSD report.				
2	Tax compliant with SARS: Attached a copy of valid Tax Compliance status pin page (to be confirmed through SARS).				
3	Active registration with Company Intellectual Property Commission (to be verified through CSD and CIPC). Attach copy of Bidder's CIPC / CIPRO certificate.				
4	A valid copy of B-BEE status Level Verification Certificate (Failure to submit, the Bidder will forfeit the preferential points to be claimed).				
5	A valid letter of Good Standing with the Compensation Commissioner in terms of the Compensation for Occupational Injuries and Diseases Act No 130 of 1993 and or third parties' insurance registered with Financial Service Board (COIDA).				
6	Initial and sign Tender data section (T1 & T2) and all required documents to be submitted with tender. Initial each page of section C1, C2 and C3 and sign where required.				
7	Letter of appointment of duly authorized person to sign bid. Proof of such authority must be submitted with the bid. If by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and proof of such authority must be produced. If the bid is by a Company, it must be signed by a person duly authorised thereto by a Resolution of a Board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.				
8	The stipulated minimum threshold percentage for local production and content for steel products & components of construction, as per stipulated by the Department of Trade and Industry (DTi) is applicable. Please make yourself aware of the stipulated minimum threshold percentage of the specific item(s) as per the specifications. Annexure C need to be complete and is available on the Department: Trade and Industry website. (www.thedti.gov.za).				
9	 Companies to submit: The Company SABS : Permit to apply certification mark in accordance with SANS 920:2011 Certificated – Steel bars for concrete reinforcement; & Letter of confirmation that SANS 282: 2001 Bending dimensions and scheduling of steel reinforcement for concrete will be adhere to. 				
10	Complete, sign, submit SBD1, SBD3.2, SBD4, SBD6.1 and Annexures C (Local Production and Content declaration – summary schedule.)				
11	3 x final signed completion certificates (Final IPC) conducted in the recent 10 years where reinforcement were cut, bend, deliver on site and installed or fixed for that project must be for the value of R 12,5 million or more				
3) <u>Pł</u>	HASE 3: FUNCTIONALITY COMPLIANCE				
-	plained in 6.11.9. dder must score a minimum of 70 points out of 100 to allow them to proceed to the next phase	of evalu	uatio		
4) Pł	HASE 4: PRICE AND PREFERENCE				
	lained in 6.11.7 & 6.11.8.				

Clause 1umber	TENDER DATA					
6.11.5	5) PHASE 5: EVALUATION METHOD Method 4: Financial offer, quality and preference → This method shall apply for the evaluation of this tender					
	The procedure for the evaluation of responsive te					
	The total number of tender evaluation points (T_{EV}					
	$T_{EV} = f_1 (N_{FO} + N_P) + f_2 N_O$					
	Where:					
	$f_1 \& f_2$ are fractions,					
	f_1 equals 1 minus f_2 ; and					
	f_2 equals 0,5					
	N _{F0} → is the number of tender evaluation SANS ISO 10845-3: 2022 Ed 2 clause 6.7					
	N_P \rightarrow is the number of tender evaluation point 10845-3: 2022 Ed 2 clause 6.11.8, (where	pints awarded for preference claim				
		$N_Q \rightarrow$ is the number of tender evaluation points awarded for <u>functionality (quality)</u> in accordance with SANS ISO 10845-3:2022 Ed2 clause 6.11.9, (where N_Q is maximum 100 points).				
	Example:					
	For example, if a Tenderer scores the following:					
	For example, if a Tenderer scores the following:					
	For example, if a Tenderer scores the following: 75 points for pricing (N_{FO}) out of 90;					
	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and)				
	75 points for pricing (N_{PO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100)				
	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and)				
	75 points for pricing (N_{PO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100)				
	75 points for pricing (N_{PO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100) Example values scored				
	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_O) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90	Example values scored 75				
	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 N_P \rightarrow 10	Example values scored 75 6				
	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$	Example values scored 75 6 70				
	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation:	Example values scored 75 6 70 Example of calculation				
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	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5				
11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points (T_{EV}) \rightarrow 100	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35				
.11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points (T_{EV}) \rightarrow 100 Price Score:	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35 75.5				
.11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points (T_{EV}) \rightarrow 100	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35 75.5				
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.11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer $(N_{FO}) \rightarrow 90$ $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points $(T_{EV}) \rightarrow 100$ Price Score: Score for financial offers using the following for	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35 75.5				
5.11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_O) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points (T_{EV}) \rightarrow 100 Price Score: Score for financial offers using the following for $N_{FO} = W_1 \times A$	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35 75.5				
5.11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_O) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer $(N_{FO}) \rightarrow 90$ $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points $(T_{EV}) \rightarrow 100$ Price Score: Score for financial offers using the following for $N_{FO} = W_1 \times A$ Where: $N_{FO} \rightarrow$ is the number of tender evaluation points	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35 75.5				
5.11.7	75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_O) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (N_{FO}) \rightarrow 90 $N_P \rightarrow 10$ $N_Q \rightarrow 100$ Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points (T_{EV}) \rightarrow 100 Price Score: Score for financial offers using the following for $N_{FO} = W_1 \times A$ Where: $N_{FO} \rightarrow$ is the number of tender evaluation points	Example values scored 75 6 70 Example of calculation 0.5 * (75 + 6) = 40.5 0.5 * 70 = 35 75.5				
6.11.7	75 points for pricing (<i>N</i> _{FO}) out of 90; 6 points for preferencing (<i>N</i> _P) out of 10; and 70 points for functionality (quality) (<i>N</i> _Q) out of 100 And the fractions are f_2 equals f_2 equals 0,5 Where the weights are: Total points for financial offer (<i>N</i> _{FO}) \rightarrow 90 <i>N</i> _P \rightarrow 10 <i>N</i> _Q \rightarrow 100 Calculation: Where: $f_1(N_{FO} + N_P)$ And where: $f_2 N_Q$ Total Tender evaluation points (<i>T</i> _{EV}) \rightarrow 100 Price Score: Score for financial offers using the following for <i>N</i> _{FO} = <i>W</i> ₁ <i>x A</i> Where: <i>N</i> _{FO} \rightarrow is the number of tender evaluation points $A = \left(1 - \left(\frac{P - P_m}{P_m}\right)\right)$ (As per Preferential P	Example values scored 75 6 70 Example of calculation $0.5 * (75 + 6) = 40.5$ $0.5 * 70 = 35$ 75.5 mula:s awarded for the financial offer;rocurement Regulations, 2022)der consideration;				

	Preference Score:		
Preferential Procurement Regulations, 2022, Act no. 5 of 2000 will be used to evaluate this proposal as per th applicable threshold value.			
Bid proposals will be evaluated based on the 90/10 preference points system in accordance with the PPPFA Act (Ac no. 5 of 2000). Where a maximum of 90 points will be awarded in respect of price and a maximum of 10 points will be awarded for specific goals.			
	$\mathbf{N}_{\!P}$ shall be calculated to a maximum of 10 points, as claimed in Table 1 be Procurement Regulations, 2022 and described below.	elow in accordance with Prefer	
F	Points claimed will be according to a bidder's specific goals claimed as indicate	ed in Table 1 below.	
f t c	n terms of Regulation 4(2) and 5(2) of the Preferential Procurement Regulations or specific goals stated in the tender. For the purposes of this tender the tender he tenderer's goals claimed as per Table 1 below. The tenderer goal clai documentation as per Table 2 and the special conditions of this tender where a	erer will be allocated points bas med must be supported by p	
1	Fable 1: Specific goals for the tender and points claimed		
	The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system)	
	Women Ownership	2	
	Disability Ownership	2	
	Youth Ownership	2	
	Location of enterprise (local equals province): Western Cape	1	
	B-BBEE status level contribution from level 1 to 2 which are QSE or EME	3	
	TOTAL SCORED POINTS	10	
	Programme as published in <i>Government Gazette</i> No. 16085 date 23 Novemb " Ownership " means the percentage ownership and control, exercised by inc " Disability " means, in respect of a person, a permanent impairment of a phy which results in restricted, or lack of, ability to perform an activity in the mann	lividuals within an enterprise. sical, intellectual, or sensory fur	
	normal for a human being.		
	 A blind person (in terms of the Blind Persons Act, 1968 (Act no.26 of 1 A deaf person, whose hearing is impaired to such an extent that he/sh communication; 		
	 iii. A person who, as a result of permanent disability, requires a wheelcha move from one place or another; iv. A person who requires an artificial limb; or v. A person who suffers from a mental illness (in terms of the Mental Heating) 		
	"Youth" means, in respect of a person younger than 35 years of age.	s more than on province, the bir	
	"Youth" means, in respect of a person younger than 35 years of age. "Location of enterprise" Local equals province. Where a project cuts across may be located in anu of the relevant provinces to obtain the points.	s more than on province, the bio	
	"Location of enterprise" Local equals province. Where a project cuts across	percentage of ownership of the ach of whom own 20% of the	

I.9 Fu Fa go all Th Th Wł	als with the bid, will be interpreted to mean ocated. nctionality (Quality) Score: e score obtained in 6.11.9 (functionality criter $N_Q = 100 \ x \ \frac{S_0}{M_s}$ here $N_Q \Rightarrow$ is the number of tender evaluation $S_0 \Rightarrow$ is the score for functionality criter $M_S \Rightarrow$ is the maximum possible score for nctionality is the terminology used to define quired product in accordance with the special ints allocated for functionality shall be evaluated	Requires Proof Docum Full CSD Report Valid B-BBEE certificate/sworn af Consolidated B-BBEE certificate Ventures Full CSD Report of documentation required in terms of this tender to that preference points for specific goals are not classed eria) will be used for the following formula:	ffidavit in cases of Joint to claim for specifi aimed and will not asideration; and perience, to deliver			
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go alla 1.9 <u>Fu</u> Th Wł Fu rec Po	Disability Ownership Youth Ownership Location of enterprise B-BBEE status level contribution from level 1 to 2 which are QSE or EME ilure on the part of a bidder to submit proof als with the bid, will be interpreted to mean bocated. nctionality (Quality) Score: e score obtained in 6.11.9 (functionality crite $N_Q = 100 \ x \ \frac{S_0}{M_s}$ nere $N_Q \rightarrow$ is the number of tender evaluation So → is the score for functionality crite Ms → is the maximum possible score for nctionality is the terminology used to define quired product in accordance with the special	Full CSD Report Full CSD Report Full CSD Report • Valid B-BBEE certificate/sworn af • Consolidated B-BBEE certificate Ventures • Full CSD Report of documentation required in terms of this tender t that preference points for specific goals are not classed eria) will be used for the following formula: an points awarded for functionality offered; ria (6.11.9) allocated to the submission under con or functionality criteria (100). the technical ability of the Tenderer, based on exp alised quality, reliability and functionality.	in cases of Joint to claim for specifi aimed and will not nsideration; and perience, to deliver			
go alla 1.9 <u>Fu</u> Th Wł Fu rec Po	Youth Ownership Location of enterprise B-BBEE status level contribution from level 1 to 2 which are QSE or EME ilure on the part of a bidder to submit proof als with the bid, will be interpreted to mean bocated. nctionality (Quality) Score: e score obtained in 6.11.9 (functionality crite $N_Q = 100 \times \frac{S_0}{M_s}$ here $N_Q \Rightarrow$ is the number of tender evaluation So ⇒ is the score for functionality crite Ms ⇒ is the maximum possible score for nctionality is the terminology used to define quired product in accordance with the special ints allocated for functionality shall be evaluated	Full CSD Report Full CSD Report • Valid B-BBEE certificate/sworn af • Consolidated B-BBEE certificate Ventures • Full CSD Report of documentation required in terms of this tender t that preference points for specific goals are not cla eria) will be used for the following formula: on points awarded for functionality offered; ria (6.11.9) allocated to the submission under con or functionality criteria (100). the technical ability of the Tenderer, based on exp alised quality, reliability and functionality.	in cases of Joint to claim for specifi aimed and will not nsideration; and perience, to deliver			
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Po	ints allocated for functionality shall be eval		alow table. An ove			
	nimum threshold of 70 (Ms) points out of tota	Points allocated for functionality shall be evaluated in accordance with the criteria as listed below table. An over minimum threshold of 70 (M_s) points out of total 100 (M_s) must be achieved for the tender to be eligible.				
	See T2 returnable annexure (as indicated below) for applicable documents with detail on point allocation for the su criteria's.					
Th	The quality criteria and maximum score in respect of each of the criteria are as follows:					
F	unctionality criteria	Sub-criteria	Maximum number of points			
1	Company Experience	 Schedule of similar current and past work undertaken Completion certificates of previous projects completed Contactable client reference letters SANS compliance 	26			
2	Managerial Capacity	 Contracts Manager Site Agent Foreman Steel fixers/s (head of team) 	24			
3	Preliminary Method statement: Cut, Bend & Installing/Fixing Reinforcing Steel	 Project Program Methodology Environmental, Health & Safety 	50			
М	aximum possible score for quality (M _s)		100			
Qi	ality shall be scored by not less than three e	valuators in accordance with the following schedule	es:			
		-				
	 Annexure G & H: Company Experience Annexure I & J: Managerial Capacity 	e				

The minimum number of evaluation points for functionality (quality) is 70.

6.11.9

SCORING OF FUNCTIONALITY:

The prompts for judgment and the associated scores used in the evaluation of quality shall be as follows:

Each evaluation criteria will be assessed in terms of five indicators – no response, poor, satisfactory, good and very good. Scores of 0, 40, 70, 90 or 100 will be allocated to no response, poor, satisfactory, good and very good, respectively.

TABLE: (SANS ISO 10854-3:2022 Ed2 Table A4) Scoring system that shall be used to score this criterion

		Qualitative indicator or prompt for judge			
Score	Rating	Example 1 (Proposed Organization and staffing)	Example 2 (Approach paper)	Example 3 (Knowledge of issues pertinent to the project)	
0	No response	Failed to provide information.	Failed to provide information.	Failed to provide information.	
40	Poor	The organization chart is sketchy, the staffing plan is weak in important areas. There is no clarity in allocation of tasks and responsibilities.	The technical approach and/or methodology is poor/is unlikely to satisfy project objectives or requirements. The tenderer has misunderstood certain aspects of the scope of work and does not deal with the critical aspects of the project.	Key staff have limited experience of issues pertinent to the project	
70	Satisfactory	The organizational chart is complete and detailed, the technical level and composition of the staffing arrangements are adequate.	The approach is generic and not tailored to address the specific project objectives and methodology. The approach does not adequately deal with the critical characteristics of the project. The quality plan, manner in which risk is to be managed, etc. is too generic.	Key staff have reasonable experience of issues pertinent to the project.	
90	Good	Besides attaining the "satisfactory" rating, staff are well-balanced, i.e. they show good co-ordination, complimentary skills, clear and defined duties and responsibilities. Some members of the project team have worked together before on limited occasions.	The approach is specifically tailored to address the specific project objectives and methodology and is sufficiently flexible to accommodate changes that might occur during execution. The quality plan and approach to managing risk, etc. is specifically tailored to the critical characteristics of the project.	Key staff have extensive experience of issues pertinent to the project.	
100	Very good	Besides attaining the "good" rating, the proposed team is well-integrated and several members have worked together extensively in the past.	Besides attaining the "good" rating, the important issues are approached in an innovative and efficient way, indicating that the tenderer has outstanding knowledge of state-of-the-art approaches. The approach paper details ways to improve the project outcomes and the quality of the outputs.	Key staff have outstanding experience of issues pertinent to the project.	

The scores of each of the evaluators will be averaged, weighted and then totalled to obtain the final score for quality.

EXAMPLE OF EVALUATION:

Criteria	SCORE (out of 0% - 100%)	WEIGHT (POINTS)	TOTAL (A% score x 5 points)
Sub-Criteria	Score according to SANS ISO 10845- 3:2022 ed2 Table A.4	Max allowed points for a (per) sub-criteria.	
Example 1	70 score (=70%): Satisfactory	5	= 5 * 70% = 3.5
Example 2	90 score (=90%): Good	20	= 20 * 90% = 18

Clause number	TENDER DATA
6.13	Tender offers will only be accepted if:
	 a) the Tenderer is registered on the Central Supplier Database (CSD) for the South African government (see https://secure.csd.gov.za/) unless it is a foreign supplier with no local registered entity;
	b) the Tenderer is in good standing with SARS according to the Central Supplier Database;
	c) the Tenderer submits a letter of intent from an approved insurer undertaking to provide the Performance guarantee to the format included in Part C1.3 of this procurement document;
	 the Tenderer is registered with the Construction Industry Development Board (CIDB) in an appropriate Contractor grading designation;
	 e) the Tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
	f) the Tenderer has not:
	i) abused the Employer's Supply Chain Management System; or
	ii) failed to perform on any previous contract and has been given a written notice to this effect;
	 g) the Tenderer has completed the Compulsory Declaration and there are no conflicts of interest which may impact on the Tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process;
	 h) the Tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer;
	 the employer is reasonably satisfied that the Tenderer has in terms of the Construction Regulations, 2003, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.
6.17	The number of paper copies of the signed contract to be provided by the employer to the successful Bidder is One (1).



DWS06 0523 WTE

THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

T2: RETURNABLE DOCUMENTS AND SCHEDULES

CONTENTS

T2.1: LIST OF RETURNABLE DOCUMENTS AND SCHEDULES T2.2 RETURNABLE DOCUMENTS AND SCHEDULES



T2.1 LIST OF RETURNABLE DOCUMENTS AND SCHEDULES

THE TENDER DOCUMENT MUST BE SUBMITTED AS A WHOLE i.e. All volumes (including the fully priced and extended Provisional Bills of Quantities) as is bound together in one single document herein. All forms must be properly completed in black ink as required, and the document shall not be taken apart or altered in any way whatsoever.

Note: Should any of the below-mentioned documents and/or the entire Tender Enquiry Document not be submitted the tender submission may be viewed as NON-RESPONSIVE.

The tendered must complete the following returnable document/schedules:

RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES THAT WILL BE INCORPORATED INTO THE CONTRACT							
Doc. Ref. Nr.	Document/ Schedule	Completed (Tick)					
SBD 1	SBD 1: Invitation to Bid						
SBD 3.2	SBD 3.2: Bill of Quantities – Non-Firm Price (Priced and extended Provisional Bill of Quantities - Part C2.2)						
SBD 4	SBD 4: Declaration of Interest						
SBD 6.1	SBD 6.1: Preference Points Claim Form: General Conditions and Definitions						
LOCAL CONTENT	Local production and content: Annexures C						
FORM A	Certificate of Attendance at Compulsory Clarification Site Meeting						
FORM B	Record of Addenda to Tender Documents						
FORM C	Compulsory Declaration						
FORM D	Certificate Authority of Signatory						
FORM E	Annual Financial Statements Declaration						
FORM F	Pro Forma Form of Offer and Acceptance (Part C1.1)						
FORM G	Contract Data (Part C1.2)						
FORM H	Pro Forma Performance Guarantee (Part C1.3)						
FORMI	Contractor's health and safety declaration						
FORM J	Health and Safety Act agreement						
FORM K	Verification Documentation						
ANNEXURE A	Preferencing Schedule for Broad Based Black Economic Empowerment Status (a valid copy of B-BBEE certificate or original valid sworn affidavit)						
ANNEXURE B	Proof of Contractor Registration issued by the Construction Industry Development Board (CIDB)						
ANNEXURE C	Tax Compliance Status Pin page issued by the South African Revenue Services.						



RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES THAT WILL BE INCORPORATED INTO THE CONTRACT

Doc. Ref. Nr.	Document/ Schedule	Completed (Tick)					
ANNEXURE D	Central Supplier Database (CSD) proof of registration containing MAAA number.						
ANNEXURE E	Bidder's copy of CIPC company registration documents listing all members with percentages						
ANNEXURE F	Letter of good standing from COIDA (Compensation for Occupational Injuries & Diseases Act)						
ANNEXURE G	Company Experience						
ANNEXURE H	Schedule of similar work undertaken						
ANNEXURE I	Managerial Capacity						
ANNEXURE J	Schedule of Qualifications / Experience of key project team members.						
ANNEXURE K	Schedule of Proposed sub-contractor together with a pro-forma sub- contracting agreement signed by both parties						
ANNEXURE L	Preliminary Method statements: Cut, Bend & Installing/Fixing Reinforcing Steel						

NOTE: Failure to provide all these listed documents may result in the tender not being evaluated



T2.2 RETURNABLE DOCUMENTS AND SCHEDULES





PART A INVITATION TO BID

THE SUPPLY CUT, BEND DELIVERY, AND INSTALLATION OR FINING OF RENFORCING STEEL AND FARES CENEROD CENERATION OF COMPARING OF CLAWING LAW MULLIAM DAM IN THE WESTERN CAPE - CIDE CONTRACTOR GRADING DESORMATION OF CIDE SCI ON INGRER. BID RESPONDE DOCUMENTS MAY BE DEDISEND IN THE BID BOX STUATED AT (STREET ADDRESS) THE BID BOX, AT THE ENTRANCE OF ZWAMADAKA BUILDING 157 FRANCIS BAARD STREET PRETORN, DOG PROCEDURE ENQUIRIES MAY BE DIRECTED TO CONTACT PERSON Department of Water and Sanitation ANALE OF BIDDORE FACSIMILE NUMBER FACSIMILE NUMBER EMAIL ADDRESS STREET ADDRESS STREET ADDRESS COLLENDORE NUMB				REQUIREMENTS OF THE (NAI		PARTMENT/ PUB			44:00 am
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SBD 1



PART B TERMS AND CONDITIONS FOR BIDDING

	BID SUBMISSION:
1.1.	BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2.	ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3.	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4.	THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2.	TAX COMPLIANCE REQUIREMENTS
2.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6	WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7	NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."
NB: F	AILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

.....

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED: (Proof of authority must be submitted e.g. company resolution)

DATE:

.....



SBD 3.2 PRICING SCHEDULE

PRICING SCHEDULE – NON-FIRM PRICES (PURCHASES)

SBD 3.2 is in section – Contract C2, under C2.2

Complete this document and place back into bid at C2.2



BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the Bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

- 2.1 Is the Bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest1 in the enterprise, employed by the state? YES/NO
- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.



- 2.2 Do you, or any person connected with the Bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**
- 2.2.1 If so, furnish particulars:

.....

- 2.3 Does the Bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO
- 2.3.1 If so, furnish particulars:

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The Bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium2 will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract. Tender
T2.2



- 3.5 There have been no consultations, communications, agreements or arrangements made by the Bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the Bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and **3 ABOVE IS CORRECT.**

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature	Date
Position	Name of Bidder

Position

iname of Blader



PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
 - the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
 - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
 - (a) Price; and
 - (b) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.



2. DEFINITIONS

- (a) "tender" means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) "price" means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES 3.

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

$$Ps = 80\left(1 - \frac{Pt - P\min}{P\min}\right)$$
 or $Ps = 90\left(1 - \frac{Pt - P\min}{P\min}\right)$
Where

Ps Points scored for price of tender under consideration =

or

Pt Price of tender under consideration =

Pmin Price of lowest acceptable tender =

SBD 6.1



3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

$$Ps = 80\left(1 + \frac{Pt - Pmax}{Pmax}\right)$$
 or $Ps = 90\left(1 + \frac{Pt - Pmax}{Pmax}\right)$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.



Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
Women Ownership	2	
Disability Ownership	2	
Youth Ownership	2	
Location of enterprise: Western Cape	1	
B-BBEE status level contribution from level 1 to 2 which are QSE or EME	3	

DECLARATION WITH REGARD TO COMPANY/FIRM

- 4.3. Name of company/firm.....
- 4.4. Company registration number:
- 4.5. TYPE OF COMPANY/ FIRM
 - Dertnership/Joint Venture / Consortium
 - One-person business/sole propriety
 - Close corporation
 - Public Company
 - Personal Liability Company
 - □ (Pty) Limited
 - □ Non-Profit Company
 - State Owned Company

[TICK APPLICABLE BOX]

- 4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:
 - i) The information furnished is true and correct;
 - ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
 - iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

SBD 6.1



- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

	SIGNATURE(S) OF TENDERER(S)
SURNAME AND NAME:	
DATE:	
ADDRESS:	



SATS 1286.20											
					C	Annex					
				y Schedule	- Summar	eclaration	Content D	Local			
luded from all	Note: VAT to be exc calculations										Tender No. Tender description: Designated product(Tender Authority: Tendering Entity nan
						GBP		EU	3	Pula %	Tender Exchange Rat Specified local conte
	er summary	Tend				ocal content	Calculation of I Tender value				
Total Importe content	Total exempted imported content	Total tender value	Tender Qty	Local content % (per item)	Local value	Imported value	net of exempted imported content	Exempted imported value	Tender price - each (excl VAT)	List of items	Tender item no's
(C19)	(C18)	(C17)	(C16)	(C15)	(C14)	(C13)	(C12)	(C11)	(C10)	(C9)	(C8)
		RO	nder value	(C20) Total te							
	RO	pt imported content								rom Annex B	Signature of tendere
		pt imported content	et of exem	/ Tender value r	(C22) Tota						
F	al Imported content										
F) Total local content								-		D
	content % of tender	(C25) Average local							_		Date:



FORM A CERTIFICATE OF ATTENDANCE AT COMPULSORY CLARIFICATION SITE MEETING

This is to certify that (Tenderer) I,	
---------------------------------------	--

was represented by the person of (Bidder)

of(address)

Telephone number

named below at the compulsory meeting held for all Tenderers at (location).....

on(date)..... starting at (time).....

I acknowledge that the purpose of the meeting was to acquaint myself with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for me to take account of everything necessary when compiling our rates and prices included in the tender.

Having previously studied the documents, I carefully examined the site and equipment. I have made myself familiar with all the equipment likely to influence the work and the cost thereof.

I further certify that I am satisfied with the description of the work and the explanations given by the Department of Water and Sanitation Representative, and I understand perfectly the work to be done, as specified and implied, in the execution of this Contract.

Particulars of person attending the meeting: (Signed on behalf of Bidder) PRINT NAME & SIGNATURE

Name:	Signature:
Capacity:	
Attendance of the above person at the meeting (PRINTED NAME & SIGNATURE)	is confirmed by the Employer's representative, namely:
Name:	Signature:
Capacity:	Date and Time:

FORM B



FORM B RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:				
	Date	Title or Details		
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				

Attach additional pages if more space is required.

Signed	Date	
Name	Position	
Tenderer		

Г



FORM C COMPULSORY DECLARATION

The following particulars r must be completed and s		hed. In the case of a jo	int venture, se	eparate declaration in respect of each par	tner
Section 1: Enterprise De	etails				
Name of enterprise:]
Contact person:					
Email:					
Telephone:					
Cell no					
Fax:					
Physical address					
Postal address					_
Section 2: Particulars of companies and close corporations					
Company / Close Corp	oration regis	stration number]
Section 3: SARS Infor	mation				
Tax reference number					
VAT registration number: State Not Registered if not registered for VAT]	
Section 4: CIDB regist	tration numb	er			
CIDB Registration nun	nber (if applica	able)]
Section 5: National Treasury Central Supplier Database					
Supplier number]
Unique registration reference number					
Section 6: Particulars of principals principal: means a natural person who is a partner in a partnership, a sole proprietor, a director of a company established in terms of the Companies Act of 2008 (Act No. 71 of 2008) or a member of a close corporation registered in terms of the Close Corporation Act, 1984, (Act No. 69 of 1984).					
Full name of principal		Identity number		Personal tax reference number]
					-
					-
					-
Attach separate page if page	Accarly]
Attach separate page if nece	ssary				



Section 7: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any principal is currently or has been within the last 12 months in the service of any of the following:

- a member of any municipal council
- □ a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- public entity or constitutional institution within the meaning of the Public Finance Management Act of 1999 (Act No. 1 of 1999)

an employee of any department, national or provincial

- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

If any of the above boxes are marked, disclose the following:

Name of principal	e of principal Name of institution, public office, board or organ of state and position held		Status of service (tick appropriate column)		
		Current	Within last 12 months		

finsert separate page if necessary

municipal entity

Section 8: Record of family member in the service of the state

family member: a person's spouse, whether in a marriage or in a customary union according to indigenous law, domestic partner in a civil union, or child, parent, brother, sister, whether such a relationship results from birth, marriage or adoption

Indicate by marking the relevant boxes with a cross, if any family member of a principal as defined in section 5 is currently or has been within the last 12 months been in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- □ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
 - a member of an accounting authority of any national or provincial public entity
 - an employee of Parliament or a provincial legislature
- an official of any municipality or municipal entity

a member of the board of directors of any

Name of family member	ne of family member Name of institution, public office, board organ of state and position held		Status of service (tick appropriate column)			
		Current	Within last 1 months	2		
*insert separate page if necessary						
Section 9: Record of termination of previous contracts with an organ of state						



Was any contract between the tendering entity including any of its joint venture partners terminated during the past 5 years for reasons other than the employer no longer requiring such works or the employer failing to make payment in terms of the contract.

□ Yes □ No (Tick appropriate box)

If yes, provide particulars (interest separate page if necessary)

Section 10: Declaration

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the tendering entity confirms that the contents of this Declaration are within my personal knowledge, and save where stated otherwise in an attachment hereto, are to the best of my belief both true and correct, and:

- i) neither the name of the tendering entity or any of its principals appears on:
 - a) the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004 (Act No. 12 of 2004)
 - b) National Treasury's Database of Restricted Suppliers (see www.treasury.gov.za)
- ii) neither the tendering entity of any of its principals has within the last five years been convicted of fraud or corruption by a court of law (including a court outside of the Republic of South Africa);
- iii) any principal who is presently employed by the state has the necessary permission to undertake remunerative work outside such employment (attach permission to this declaration);
- iv) the tendering entity is not associated, linked or involved with any other tendering entities submitting tender offers
- v) has not engaged in any prohibited restrictive horizontal practices including consultation, communication, agreement, or arrangement with any competing or potential tendering entity regarding prices, geographical areas in which goods and services will be rendered, approaches to determining prices or pricing parameters, intentions to submit a tender or not, the content of the submission (specification, timing, conditions of contract etc) or intention to not win a tender;
- vi) has no other relationship with any of the Tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;
- vii) neither the Tenderer or any of its principals owes municipal rates and taxes or municipal service charges to any municipality or a municipal entity and are not in arrears for more than 3 months;
- viii) SARS may, on an on-going basis during the term of the contract, disclose the Tenderer's tax compliance status to the Employer and when called upon to do so, obtain the written consent of any subcontractors who are subcontracted to execute a portion of the contract that is entered into in excess of the threshold prescribed by the National Treasury, for SARS to do likewise.

NOTE 1 The Standard Conditions of Tender contained in SANS 10845-3 prohibits anticompetitive practices (clause 3.1) and requires that Tenderers avoid conflicts of interest, only submit a tender offer if the Tenderer or any of his principals is not under any restriction to do business with employer (4.1.1) and submit only one tender either as a single tendering entity or as a member in a joint venture (clause 4.13.1). Clause 5.7 also empowers the Employer to disqualify any Tenderer who engages in fraudulent and corrupt practice. Clause 3.1 also requires Tenderers to comply with all legal obligations.

NOTE 2: Section 30(1) of the Public Service Act, 1994, prohibits an employee (person who is employed in posts on the establishment of departments) from performing or engaging remunerative work outside his or her employment in the relevant department, except with the written permission of the executive authority of the department. When in operation, Section 8(2) of the Public Administration Management Act, 2014, will prohibit an employee of the public administration (i.e. organs of state and all national departments, national government components listed in Part A of Schedule 3 to the Public Service Act, provincial departments including the office of the premier listed in Schedule 1 of the Public Service Act and provincial departments listed in schedule 2 of the Public Service Act, and provincial government components listed in Part B of schedule 3 of the Public Service Act) or persons contracted to executive authorities in accordance with the provisions of section 12A of the Public Service Act of 1994 or persons performing similar functions in organs of state from conducting business with the State or to be a director of a public or private company conducting business with the State. The offence for doing so is a fine or imprisonment for a period not exceeding 5 years or both. It is also a serious misconduct which may result in the termination of employment by the employer.

NOTE 3: Regulation 44 of Supply Chain Management regulations issued in terms of the Municipal Finance Management Act of 2003 requires that organs of state and municipal entities not award a contract to a person who is the service of the state, a director, manager or principal shareholder in the service of the state or who has been in the service of the state in the previous twelve months.

NOTE: 4: Regulation 45 of Supply Chain Management regulations requires a municipality or municipal entity to disclose in the notes to the annual statements particulars of any award made to a close family member in the service of the state.

NOTE: 5 Corrupt activities which give rise to an offence in terms of the Prevention and Combating of Corrupt Activities Act of 2004) include improperly influencing in any way the procurement of any contract, the fixing of the price, consideration or other moneys stipulated or otherwise provided for in any contract and the manipulating by any means of the award of a tender.

FORM C



NOTE: 6 Section 4 of the Competition Act of 1998 prohibits restrictive horizontal practice including agreements between parties in a horizontal relationship which have the effect of substantially preventing or lessening competition, directly or indirectly fixing prices or dividing markets or constitute collusive tendering. Section 5 also prohibits restrictive vertical practices. Any restrictive practices that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties.

Signed	Date	
Name	Position	
Tenderer		



FORM D CERTIFICATE AUTHORITY OF SIGNATORY

Indicate the status of the Tenderer by ticking the appropriate box hereunder. The Tenderer must complete the certificate set out below for the relevant category. Delete whichever is inapplicable.

A	В	С	D	E
Company	Partnership	Joint Venture	Sole Proprietor	Close Corporation

A. CERTIFICATE FOR COMPANY

I,	chairperson of the board of directors of
	,
hereby confirm that by resolution of the board taken on	
Mr/Ms	, acting in the capacity
of, was authorised	
Contract reference number	and any contract resulting from it
on behalf of the company.	
As witnesses:-	
1Witness	Chairman
2 Witness	Date



B. <u>CERTIFICATE FOR PARTNERSHIP</u>

We, the undersigned, being the key partners in the business trading as

hereby authorise Mr/Ms	 	,
acting in the capacity of	 	to sign

all documents in connection with the tender for Contract reference number

and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.



FORM D

C. CERTIFICATE FOR JOINT VENTURE

Mr/Ms, authorised signatory of the company acting in the capacity of lead partner, to sign all documents in connection with the tender offer for Contract reference number	We,	the	undersigned,	are	submitting	this	tender	offer	in	Joint	Venture	and	hereby	authorise
acting in the capacity of lead partner, to sign all documents in connection with the tender offer for Contract	Mr/M	s									,	autho	orised si	gnatory of
	the	comp	bany											,
reference number and any contract resulting from it o	acting	g in tł	ne capacity of	lead p	partner, to s	ign al	l docume	ents in	con	nectior	n with the	tende	er offer fo	or Contract
	refere	ence i	number							a	nd any co	ontract	resulting	g from it on

our behalf.

This authorisation is evidenced by the attached power of attorney signed by legally authorised signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORIZING SIGNATURE, NAME & CAPACITY
Lead Partner		
Partner 1		
Partner 2		
Partner 3		
Partner 4		



D. <u>CERTIFICATE FOR SOLE PROPRIETOR</u>.

I,		hereby confirm that I am the sole owner of
the	business trading as	
As	witnesses:-	
1.	Witness	Signature: Sole owner
2.	Witness	Date

FORM D



E. CERTIFICATE FOR CLOSE CORPORATION

We, the undersigned, being the key partners in the business trading as

all documents in connection with the tender for Contract reference number

and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.

FORM E



FORM E ANNUAL FINANCIAL STATEMENTS DECLARATION

The	e undersigned, who warrants that he / she is duly authorised to do so on behalf of the respondent, confirms that:
1)	The enterprise's financial year end is
2)	The enterprise's financial statements have been prepared in accordance with the provisions of the Companies Act of 2008 or the Close Corporation Act of 1984, as applicable
3)	The enterprise has compiled its financial accounts [tick one box]:
	□ internally □ independently
4)	The following statement applies to the enterprise [tick one box and provide relevant information]
	 enterprise has had its financial statements audited;
	name of auditor
	enterprise is required by law to have an independent review of its financial statements
	name of independent reviewer
	enterprise has not had its financial statements audited and is not required by law to have an independent review or audit of such statements
5)	The attached income statement and balance sheet is a true extract from the financial statements complying with applicable legislation for the preceding financial year within 12 months of the financial year end.
	[Attach the income statement and the balance sheet contained in the financial statement]
6)	The annual turnover for the last financial year is R
7)	The total assets as at the end of the last financial year is R
8)	The total liabilities as at the end of the financial year is R

I hereby declare that the contents of this Declaration are within my personal knowledge, and save where stated otherwise are to the best of my belief both true and correct.

Signed Date
Name Position
Tender



FORM F PRO FORMA FORM OF OFFER AND ACCEPTANCE

Pro Forma Form of Offer and Acceptance is in section – Contract C1, under C1.1

Complete this document and place back into bid at C1.1



FORM G CONTRACT DATA

Contract data is in section – Contract C1, under C1.2

Complete this document and place back into bid at C1.2



FORM H PRO FORMA PERFORMANCE GUARANTEE

 $\label{eq:properties} Pro \ Forma \ Performance \ Guarantee \ is \ in \ section \ - \ Contract \ C1, \ under \ C1.3$

Complete this document and place back into bid at C1.3



FORM I CONTRACTOR'S HEALTH AND SAFETY DECLARATION

In terms of Clause 4(4) of the OHSA 1993 Construction Regulations 2003 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2003.

To that effect a person duly authorised by the Tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

- 1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2003.
- 2. I hereby declare that my company / enterprise has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
- 3. I hereby undertake, if my tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with Regulation 5(1) of the Construction Regulations, approved by the Employer or his representative, before I will be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
- 4. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHSA 1993 Construction Regulations 2003 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, visitors, and officials and inspectors of the Department of Labour.
- 5. I hereby confirm that adequate provision has been made in my tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2003, including the cost for specific items that may be scheduled in the bill of quantities.
- 6. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 30 of the Regulations.
- 7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHSA 1993 Construction Regulations 2003, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.
- 8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 3 of the OHSA 1993 Construction Regulations 2003 before I will be allowed to proceed with any work under the contract.

SIGNATURE:	DATE:	
(of person authorised to sign on behalf of the Tenderer)		



FORM J HEALTH AND SAFETY ACT AGREEMENT

AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993

The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety, Act No. 85 of 1993, hereinafter referred to as 'the Act', that the Contractor as an employer in its own right and in its capacity as Contractor for the execution of the works, shall have certain obligations and that the following arrangements shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:-

- i) The Contractor undertakes to acquaint the appropriate officials and the employees of the Contractor with all relevant provisions of the Act, and the regulations promulgated in terms of the Act, and
- ii) The Contractor undertake that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with, and
- iii) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and regulations and expressly absolves the Employer from being obliged to comply with any of the aforesaid duties, obligations and prohibitions.
- iv) The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint, or criminal charge which may arise as a consequence of the provisions of the Act and regulations pursuant to work performed on behalf of the Employer, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

SIGNED at On this day of	
--------------------------	--

For and on behalf of the Contractor: Name:

Company Name:

AS WITNESSES:

1. _____

2.					

for and on behalf of the Employer:

AS WITNESSES:

1. _____

2. _____

NOTE: As and when required; the Contractor will be required to sign project specific agreements in terms of section 37(2) of the Occupational Health and Safety Act no 85 of 1993.



FORM K VERIFICATION DOCUMENTATION

VERIFICATION DOCUMENTATION

The Tenderer shall attach the following documentation in support of the pre-qualification specification of this bid:

A valid copy of B-BBEE Status Level Verification Certificate issued by accredited Verification Agency/s by SANAS, together with their bid to substantiate their B-BBEE rating claims.

A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level Verification certificate to substantiate their B-BBEE rating claims.

An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 million or less and level of black ownership to substantiate their EME rating claims.

An EME that is regarded as a Specialized Enterprise is required to submit a sworn affidavit confirming their annual turnover/allocated budget/ gross receipt of R10 million or less and level of percentage of black beneficiaries to substantiate their EME rating claims.

A QSE is required to submit a sworn affidavit confirming their annual total revenue of between R10 million and R50 million and level of black ownership or a B-BBEE level verification certificate to substantiate their QSE rating claims.

<u>NOTE</u>: It is a requirement of this contract that the verification documentation of the names of proposed Sub-contractors for the work must be provided with the Tender.



ANNEXURE A B – BBEE STATUS VERIFICATION CERTIFICATE

Preferencing schedule: Broad Based Black Economic Empowerment Status

Preamble

Section 10(b) of the Broad-Based Black Economic Empowerment Act of 2003 (Act No. 53 of 2003) states that "Every organ of state and public entity must take into account and. as far as is reasonably possible. apply any **relevant code of good practice** issued in terms of this Act in developing and implementing a preferential procurement policy:"

A number of codes of good practice have been issued in terms of Section 9(1) of the B-BBEE Act of 2003 including a generic code of good practice and various sector codes. The sector codes vary the metrics, weightings and targets used in the generic code of good practice to establish the overall performance of an entity and its B-BBBEE status. The B-BBEE status needs to be assessed in accordance with the applicable code.

1 Conditions associated with the granting of preferences

Tenderers who claim a preference shall provide sufficient evidence of their B-BBEE Status in accordance with the requirements of section 2 in respect of the applicable code as at the closing time for submissions, failing which their claims for preferences will be rejected.

2 Sufficient evidence of qualification

2.1 Exempted micro enterprises

Sufficient evidence of qualification as an Exempted Micro-Enterprise is a :

a) a sworn affidavit - B-BBEE Exempted Micro Enterprise (see www.thedti.gov.za/gazzettes/Affidavit_EME.pdf

2.2 Enterprises other than micro exempted enterprises

Sufficient evidence of B-BBEE Status is:

- a) A valid copy of the certificate issued by a verification agency accredited by the South African National Accreditation System (SANAS); or.
- b) a valid original sworn affidavit B-BBEE Qualifying Small Enterprise (see www.thedti.gov.za/gazzettes/BBEE_QUALIFYING_SMALL_ENTERPRISE.pdf)

3 Declaration

The Tenderer declares that

- a) the tendering entity is a level contributor as stated in the submitted evidence of qualification as at the closing date for submissions
- b) the tendering entity has been measured in terms of the following code (tick applicable box)
 - □ Generic code of good practice
- □ Other specify
- c) the contents of the declarations made in terms of a) and b) above are within my personal knowledge and are to the best of my belief both true and correct

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the Tenderer confirms that he / she understands the conditions under which such preferences are granted and confirms that the Tenderer satisfies the conditions pertaining to the granting of tender preferences.



Signature :
Name :
Duly authorised to sign on behalf of :
Telephone :
Fax: Date :
Name of witness
Note: 1) Failure to complete the declaration will lead to the rejection of a claim for a preference
 Supporting documentation of the abovementioned claim for a preference must be submitted with the tender submission to be eligible for a preference

NOTE: ATTACHED TOGETHER WITH PREFERENCING SCHEDULE THE FOLLOWING:

Attached B-BBEE Status level in a valid copy of B-BBEE certificate issued in accordance with the revised Notice of Clarification published in the Notice 44 of 2015 published in Government Gazette 38799 on 15 May 2015 by the Department of Trade and Industry.

Attached hereto this page is my / our B-BBEE Status Level verification Certificate/ sworn affidavit. My failure to submit the certificate or sworn affidavit with my / our tender document may result in the award of 0 (zero) points allowable for this specific goal.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:		
-------	--	--



ANNEXURE B PROOF OF REGISTRATION WITH CIDB

CONTRACTOR'S PROOF OF REGISTRATION WITH CIDB

Attached to this page: Proof of Contractor Registration issued by the Construction Industry Development Board (CIDB).

Note: Only proof of CIDB grading for specified category 8CE or higher<u>are</u> acceptable. Applications, or acknowledgement of applications by CIDB, will only be acceptable if it is certain that the application will be successful and a certificate will be issued before award of the contract.

Attached hereto this page is my / our proof of Registration with CIDB. My failure to submit proof that the company is registered with CIDB on the required grading with my / our tender document at the closing of the bid will lead to the conclusion that I am / we are not registered with the CIDB and therefore will not be eligible to tender.



ANNEXURE C TAX COMPLIANCE STATUS PIN PAGE

CONTRACTOR'S TAX COMPLIANCE STATUS PIN

Attached to this page: A copy of valid Tax Compliance Status pin page (to be confirmed/verified through SARS).

Attached hereto this page is my / our copy of valid Tax compliance status pin page. My / our failure to submit Tax compliance status pin page with my / our tender document and also to maintain a tax compliance status on CSD during the tendering period may lead to the conclusion that I am / we are not eligible to be awarded this tender.



ANNEXURE D CENTRAL SUPPLIER DATABASE

CONTRACTOR'S CENTRAL SUPPLIER DATABASE (CSD) PROOF OF REGISTRATION

Attached to this page: Central Supplier Database (CSD) proof of registration containing MAAA number.

Attached hereto this page is my / our Proof of Registration with National Treasury's Central Supplier Database (CSD).

ANNEXURE E



ANNEXURE E COMPANY INTELLECTUAL PROPERTY COMMISSION CERTIFICATE

CONTRACTOR'S COMPANY INTELLECTUAL PROPERTY COMMISSION (CIPC/CIPRO) PROOF OF REGISTRATION

Attached to this page: Copies of Bidder's CIPC / CIPRO company registration documents listing all members with percentages.

Attached hereto this page is my / our Proof of CIPC/CIPRO active registration certificate.



ANNEXURE F LETTER OF GOOD STANDING FROM COIDA

CONTRACTOR'S LETTER OF GOOD STANDING FROM COIDA

Attached to this page: A valid letter of Good Standing with the Compensation Commissioner in terms of the Compensation for Occupational Injuries and Diseases Act No 130 of 1993 and or third parties insurance registered with Financial Service Board

Attached hereto this page is my / our Letter of Good Standing from COIDA.



ANNEXURE G COMPANY EXPERIENCE

COMPANY EXPERIENCE

[MAX POINTS: 26]

Attached to this page proof at least a minimum of 3 projects:

- Signed completion certificates (Final IPC) together with client reference letters for similar works projects complete
- These final signed completion certificates (Final IPC) conducted in the recent 10 years where reinforcement were cut, bend, deliver on site and installed or fixed for that project must be for the value of R 12,5 million or more.

Tenderer can provide more than 3 signed <u>completion certificates</u> for relevant work completed, together with at least 3 client reference letters for 3 of these completion certificates submitted. The three client letters will be used to do reference checks on the contractor.

With proof of value together with completion certificates of previous projects completed, where the value of the projects is stated in other currencies, state the exchange rate at the time of project execution.

The tenderer is also requested to submitted the following:

- The Company SABS : Permit to apply certification mark in accordance with SANS 920:2011 Certificated – Steel bars for concrete reinforcement; &
- Letter of confirmation that SANS 282: 2001 Bending dimensions and scheduling of steel reinforcement for concrete will be adhere to.

The client reference should have the following:

- Description of the project / title of project,
- Scope of work completed,
- Period of the contract / time frame,
- Contract amount/value of work done,
- Client Name, &
- Client contact details (Telephone number, Cell phone number and E-mail Address),
- Reference letter to be sign by client/employer

Only the following will be considered as similar work conducted:

Completed projects where reinforcement were:

- Cut, bend and delivery as per bending schedules or drawings,
- Delivery of reinforcement on construction site as per schedule,
- Also fixed or installed on site for bridges, OR large buildings AND OR water related structures.

will count for relevant work done and therefor will be accepted for evaluation.

For each project indicated on "Annexure H: Schedule of similar work undertaken" proof of signed completion certificated, the value of project completed and scope of work done, should be provided.

This scoring system as indicated Table G.1 shall be used to score these criteria.



Table G.1: Evaluation of Company Experience

FUNCTIONAL CRITERIA: 1- COMPANY EXPERI	ENCE	SCORE:
	[MAXIMUM POINTS 26]	
A - SUB-CRITERIA:	[MAX POINTS 20]	
Providing of at least 3 x client reference letters (as together with the relevant signed completion certific projects signed completion certificates for similar w describe above).	cates for 10 or more	
Providing of at least 3 x client reference letters (as together with the relevant signed completion certificate completed (as describe above).	cates for <u>8 or more but</u>	
Providing of at least 3 x client reference letters (as together with the relevant signed completion certific <u>less than 8</u> projects signed completion certificates (as describe above).	cates for <u>6 or more but</u>	
Providing of at least 3 x client reference letters (as together with the relevant signed completion certific <u>less than 6</u> projects signed completion certificates (as describe above).	cates for 3 or more but	
Less than 3 project	[0 points]	
 B - SUB-CRITERIA: Providing both: The Company SABS : Permit to apply certificate with SANS 920:2011 Certificated – Steel bars take Letter of confirmation that SANS 282: 2001 Be scheduling of steel reinforcement for concrete states 	or concrete reinforcement; nding dimensions and	
By omitting to provide both SANS certificated a will result in allocation of ZERO points for this		
TOTAL		

Attached hereto this page is my / our documents as listed above.

SIGNATURE: DATE: D

ANNEXURE H



ANNEXURE H SCHEDULE OF SIMILAR WORK UNDERTAKEN

The Bidder shall, in the schedule hereunder, list all work of a similar nature to that contained in this Contract which has been successfully executed by him during the past ten years and/or which is at present being carried out by him.

DESCRIPTION AND LOCALITY OF WORK (NATURE OF WORK)	NAME TELEPHONE NUMBER AND EMAIL ADDRESS OF FIRM OF ENGINEERS, MUNICIPALITY, OR GOVERNMENT DEPARTMENT WHO ADMINISTERED THE WORK	VALUE OF WORK IN RAND (Inclusive of VAT)	DATE COMPLETED OR EXPECTED TO BE COMPLETED

NOTE: IF NO SIMILAR WORK HAS BEEN CARRIED OUT, THE ABOVE SCHEDULE IS TO BE MARKED "NIL" BY THE TENDERER

NAME OF BIDDER:

COMPANY NAME: _____

SIGNATURE OF BIDDER: _____

DATE: _____

IMPORTANT NOTE:

FAILURE BY THE BIDDER TO LIST PREVIOUS SIMILAR WORK DONE, THE BID SHALL BE REGARDED AS NON-RESPONSIVE



ANNEXURE I MANAGERIAL CAPACITY

MANAGERIAL CAPACITY

[MAX POINTS: 24]

The tendered shall attach to Annexure I / Annexure J, his proposed management and key personal structure AND human resource plan for the execution of the works as follows but not limited to:

- 1. Organogram (showing site management reporting to top management)
- CV's (inclusive certified certificates of qualifications) of key personnel showing applicable experience. (As listed in "Schedule of qualifications / experience key project team members" – Annexure J).
- Proof of qualifications, and accreditation / affiliations for experience key personnel / staff.
 (As listed in "Schedule of qualifications / experience of key project team members" Annexure J)

With the following identified key project team members (but not limited to) required proof of experience, qualifications/training, and where applicable registration:

Contract manager: Must have a Civil Engineering Diploma <u>OR</u> BTech <u>OR</u> Degree qualification together with, SACPCMP registration with 10 years work experience as a contracts manager post registration <u>EITHER OR</u> a valid Professional Engineering (PR.Eng. / PR Eng. Tech / PR Eng. Techni) registration with ECSA as a Civil Engineer or Technologist or Technician with at least 10 years post registration work experience as a contracts manager. (Proof of qualification, registration together with a detailed/full CV to be submitted).

- Site agent: Must have at least total of 10 years working experience appointed as a site agent on Civil construction sites.
- Foreman: Must have experience in reinforcement fixing and installation on Civil construction sites of at least 10 years' experience.
- Steel fixer/s (for the head of a team): Must have a valid Certificated of NFQ Level 2 with SAQA, Unit Standard Title "Assemble, tie and install reinforcing cages". With at least 5 years' experience after obtaining the certificate(s)/qualification(s). Must be able to read and understand steel drawings, bending schedules, good people working skills.

This scoring system as indicated in Table I.1 shall be used to score this criteria

Attached hereto this page is my / our documents as listed above.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)



Table I.1: Evaluation of Managerial Capacity

TABLE I.1 FUNCTIONAL CRITERIA: 2- MANAGERIAL CAPACITY [N]	MAX24]	SCORE
SUB-CRITERIA: Contracts Manager (Construction Manager) [I	MAX 9]	
FOR EITHER SACPCMP OR ECSA REGISTRATION		
Proof that Contracts Manager has more than 20 years of relevant work experience. [9 g	points]	
Proof that Contracts Manager has 15 years or more but less than 20 years of relevant work experience. [8]	< points]	
Proof that Contracts Manager has less than 15 years but more than 10 years of relevant we experience. [6 p	ork points]	
If the Contracts manager has less than 10 years will mean that the Bidder is non-responsiv	/e. points]	
NOTE: In the case of registered as both, the highest score will take preference.		
ATTACHED CV'S (proven relevant experience, qualifications & registration)		
<u> </u>		
SUB-CRITERIA: Site Agent [M	IAX 5]	
Proof that Site Agent has more than 20 years of relevant work experience. [5 g	points]	
Proof that Site Agent has 15 years or more but less than 20 years of relevant work experien	nce.	
[4 F	points]	
Proof that Site Agent has 10 years or more but less than 15 years of relevant work experier	nce.	
[3,5 µ	points]	
• • • • • •	points]	
ATTACHED CV'S (proven relevant experience, qualification& registration)		
SUB-CRITERIA: Foreman [I	MAX 5]	
Proof that Foreman has more than 20 years of relevant work experience. [5]	points]	
Proof that Foreman has 15 years or more but less than 20 years of relevant work experience	ce.	
[4 r	points]	
Proof that Foreman has 10 years or more but less than 15 years of relevant work experience	ce.	
[3,5	points]	
If Foreman has less than 10 years will mean that the bidder is non-responsive. [0	points]	
ATTACHED CV'S (proven relevant experience, qualifications & registration)		
SUB-CRITERIA: Steel Fixer [MAX 5]	
Proof that Steel Fixer has more than 15 years of relevant work experience after of gualification. [5	btaining points]	
Proof that Steel Fixer has 10 years or more but less than 15 years of relevant work experien		
Proof that Steel Fixer has 5 years or more but less than 10 years of relevant work experien obtaining qualification. [3,5]	ce after points]	
If Steel Fixer has less than 5 years after obtaining qualification will mean that the bidder responsive. [0]	is non- points]	
ATTACHED CV'S (proven relevant experience, qualifications & qualification)		
TOTAL		

ANNEXURE J



ANNEXURE J SCHEDULE OF QUALIFICATIONS / EXPERIENCE OF KEY PROJECT TEAM MEMBERS

SCHEDULE OF QUALIFICATIONS / EXPERIENCE OF KEY PROJECT TEAM MEMBERS

The Bidder shall state hereunder the qualifications and experience of each key project team members whom he proposes to employ in the execution of all or main sections of the works.

NAME	QUALIFICATIONS	PROJECT TEAM MEMBER (WORKS AND TIME SPENT)
_		

SIGNATURE OF BIDDER

DATE



ANNEXURE K SCHEDULE OF PROPOSED SUB-CONTRACTORS

SCHEDULE OF PROPOSED SUB-CONTRACTORS

COMPLETE AND ATTACHED: Schedule of Proposed Sub-contractor together with a pro-forma subcontracting agreement signed by both parties

In accordance with the General Conditions of Contract the Bidder shall state hereunder the names of Sub-contractors he proposes to employ for the execution of certain sections of the Works.

ITEM (Please specify)	PROPOSED SUB-CONTRACTOR	ADDRESS TELEPHONE AND FAX NUMBER WHERE MANUFACTURE INSPECTION AND TESTS WOULD BE EXECUTED	B-BEE LEVEL OF SUB-CONTRACTOR (B-BEE Certificate or sworn affidavit from DTI must be attached)

ANNEXURE K



DID YOU ATTACH ORIGINAL AND VALID TAX CLEARANCE CERTIFICATES OF ALL SUB-CONTRACTORS AS LISTED ABOVE?

YES		NO		
-----	--	----	--	--

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' ORIGINAL AND VALID TAX CLEARANCE CERTIFICATES, THE BID MAY BE REGARDED AS NON-RESPONSIVE

DID YOU ATTACH CERTIFIED COPIES OF VALID B-BBEE CERTIFICATES OF ALL SUB-CONTRACTORS' AS LISTED ABOVE?

YES NO

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' CERTIFIED COPIES OF VALID B-BEE CERTIFICATES OR IN CASE OF EMES A SWORN AFFIDAVIT OBTAINABLE FROM THE DEPARTMENT OF TRADE AND INDUSTRY, THE BID MAY BE REGARDED AS NON-RESPONSIVE

DID YOU ATTACH CERTIFIED COPIES OF VALID ID DOCUMENTS OF OWNERS OF ALL SUB-CONTRACTORS' AS LISTED ABOVE?

YES [NO		
-------	--	----	--	--

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' CERTIFIED COPIES OF VALID ID DOCUMENT, THE BID MAY BE REGARDED AS NON-RESPONSIVE

DID YOU ATTACH CERTIFIED COPIES OF INCORPORATION OF THE COMPANY (CIPC CERTIFICATES) OF ALL SUB-CONTRACTORS AS LISTED ABOVE?

YES		NO		
-----	--	----	--	--

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' CERTIFIED COPIES OF INCORPORATION OF COMPANY (CIPC CERTIFICATES), THE BID MAY BE REGARDED AS NON-RESPONSIVE

NAME OF BIDDER:_____

COMPANY NAME: _____

SIGNATURE OF BIDDER: _____

DATE: _____

ANNEXURE L



ANNEXURE L PRELIMINARY METHOD STATEMENT FOR – Cut, Bend & Installing/Fixing Reinforcing Steel

The tenderer must acquaint themself with the scope of work (Section C3) before writing this preliminary method statement.

Method Statement must be submitted with the tender to evaluate the ability of the Contractor to perform the work according to specification.

The attached method statement under this annexure, Cut, Bend & Installing/Fixing Reinforcing Steel shall include the 3 sections as show in table L.1. More information on each of these sections is explain below.

Table L.1: Summary of Method statement layout

	METHOD STATEMENT FOR CUT, BEND & INSTALLING/FIXING TOTAL POINTS 50 REINFORCING STEEL		
SU	B-CRITERIA (AS EXPLAINED BELOW)	MAXIMUM POINTS	
1	Project program	10	
2	Environmental, Health & Safety	10	
3	Methodology – that will be used to do the work	30	

Table L.1 will be score to the Table L.2. Table L.2 indicated the point allocated under each sub-criteria.

Scoring system that shall be used to score this criterion is as per SANS ISO 10854-3:2022 Ed2 Table A4.

The evaluators are to score the functionality criteria's and sub-criteria's as per SANS ISO 10854-3:2022 Ed2 Table A4 (unless otherwise stated). The score allocated needs to be applied as a percentage of total maximum allowed points for the evaluated specific criteria as indicated in example below.

EXAMPLE OF EVALUATION:

Criteria	SCORE (out of 0-100%)	WEIGHT (POINTS)	TOTAL (A% score x 5 points)
Sub-Criteria	0-100 according to Table L.2	Max allowed points for this sub-criteria i.e 5 POINTS	
Example 1	70 score (=70%): Satisfactory	5	= 5 * 70% = 3.5
Example 2	90 score (=90%): Good	20	= 20 * 90% = 18





METHOD STATEMENT SECTIONS EXPLAINED:

1) **PROJECT PROGRAM**:

[MAX: 10 POINTS] The tendered shall attached a preliminary programme of works (project program), reflecting the proposed sequence, duration, and milestones of execution of the various activities comprising the work for this contract. This program shall be in line with the methodology.

The programme shall be in accordance with the information provided and with all other relevant aspects of the tender.

An preliminary programme in the form of a Gant chart must be submitted with the tender. The following must be shown (but not limited to):

- The proposed sequence of the various activities.
- The dependencies that exist between the activities and whether these are time related or • resource limited.
- Any shutdown periods proposed by the Contractor.
- Any slack time built into various activities or sub-phases.
- The critical path of the work to be undertaken.

This programme shall be in sufficient detail so that it can form the basis of a more detailed construction programme to be prepared after the Contract has been awarded.

Nr	Work Place	Start Date	End Date	Working days
1.	Cut, bend & installing/fixing reinforcing steel for the Coffer			
	dam and Intake Tower with Inlet works u/s of dam wall			
2.	Cut, bend & installing/fixing reinforcing steel for the			
	Tunnel and Outlet works installing/ including Right Bank			
	Chambers			
3.	Cut, bend & installing/fixing reinforcing steel for Left and			
	Right Bank Pipe encasement			
4.	Cut, bend & installing/fixing reinforcing steel for Gallery			
	sections			
5.	Cut, bend & installing/fixing reinforcing steel for Spillway			
	and Apron Sections			
6.	Cut, bend & installing/fixing reinforcing steel for the Left			
	and Right Bank retaining Walls			

Page limitation: Max – 2 pages writing & 2 Attachment pages

2) ENVIRONMENTAL, HEALTH & SAFETY:

2.1) ENVIRONMENT:

Proposed contract specific Environmental Management System, inclusive of environmental management plan and waste management plan. This shall also contain details of all site layouts, pollution prevention measures and environmental protection measures. Provide environmental plan management system, including site environmental inspection documents for all the work to be carried out with specific reference to:

- EMP
- **CWD 67** •

2.2) HEALTH & SAFETY:

Provide Health and Safety management (plan) system for all the work to be carried out with specific reference to:

- Organogram and legal appointments, •
- Preliminary baseline risk assessment for all activities (Cutting, Bending, Installing/fixing of reinforcement),
- File structure of documentation,&
- Safe handling of reinforcement steel.

Page limitation: Max - 3 to 4 page for section 2 - Environmental, Health & Safety.

[MAX: 10 POINTS] [MAX: 5 POINTS]

[MAX:5 POINTS]

ANNEXURE L



3) <u>METHODOLOGY:</u>

[MAX: 30 POINTS]

It is a requirement that the Tenderer shall attach / submit a preliminary Method Statement. This method statement should address the following (but not limited to) in adequately details:

- Methods and equipment/tools to be used for the cut and bend of various required size and shapes of reinforcement, including durations and any associated risk factors;
- Transport of materials;
- Methods, equipment/tools and materials to be used for the installation / fixing of various required size and shapes of reinforcement, including durations and any associated risk factors;
- Quality management,
- Intended method of measurement

For each of the major work sections:

- Coffer dam and Intake Tower with Inlet Works U/S of the dam wall inclusive of parking area
- Tunnel, Left Bank Outlet Works and Right Bank Outlet Works
- All Pipe Encasements
- Galleries
- Spillway and Apron
- Left Bank and Right Bank NOC
- Left Bank and Right Bank Retaining walls

It is the quested that method statement submitted is limited to maximum of 4 pages.

Attached hereto this page is my / our Preliminary Method Statement for Cut, Bend & Installing/Fixing Reinforcing Steel.



Tabel L.3: Point allocation for each section

(4) FUNCTIONAL CRITERIA- METHOD STATEMENT: CUT, BEND & INSTALLING/FIXING REINFORCING STEEL (ref T1: 5.11.8 & 5.11.9)

(TOTAL 60)

SUB-CRITERIA:1 - PROJECT PROGRAM	SCORE out of 0-100%	WEIGHT (POINTS)	TOTAL (% score x 5 points)
A fully completed and signed program for each section and the entire project which have: [Max 10]			
 Gannt Chart with timeline, deliverables, milestones, dependencies Time taken to complete the entire project within 55 months Deliverables: Activities and their chronological order for the execution of the project Dependencies: such as reinforcement steel delivery waiting periods Any slack time built into various activities or sub-phases. The critical path of the work to be undertaken. 		10	
SUB-CRITERIA: 2 - ENVIRONMENTAL, HEALTH & SAFETY	SCORE out of 0-100%	WEIGHT (POINTS)	TOTAL (% score x 20 points)
ENVIRONMENTAL: [Max 5] Proposed contract specific Environmental Management System, inclusive of environmental management plan and waste management plan. This shall also contain details of all site layouts, pollution prevention measures and environmental protection measures. Provide environmental plan management system, including site environmental inspection documents for all the work to be carried out with specific reference to CWD 67 & EMP			
HEALTH & SAFETY: [Max 5] Provide Health and Safety management (plan) system for all the work to be carried out with specific reference to: • Organogram and legal appointments,		10	
 Preliminary baseline risk assessment for all activities (Cutting, Bending, Installing/fixing of reinforcement), File structure of documentation,& Safe handling of reinforcement steel. 			



SUB-CRITERIA: 3 – METHODOLOGY	SCORE out of 0-100%	WEIGHT (POINTS)	TOTAL (% score x 5 points)
Method statement should address the following (but not limited to) in adequately details:			
 Methods and equipment/tools to be used for the cut and bend of various required size and shapes of reinforcement, including durations and any associated risk factors; 			
Transport of materials;			
 Methods, equipment/tools and materials to be used for the installation / fixing of various required size and shapes of reinforcement, including durations and any associated risk factors; 			
Quality management,			
 Intended method of measurement 			
For each of the major work sections:		30	
 Coffer dam and Intake Tower with Inlet Works U/S of the dam wall inclusive of parking area 			
 Tunnel, Left Bank Outlet Works and Right Bank Outlet Works 			
All Pipe Encasements			
Galleries			
Spillway and Apron			
Left Bank and Right Bank NOC			
Left Bank and Right Bank Retaining walls			
[Max 30]			



DEPARTMENT OF WATER AND SANITATION

DWS06 0523 WTE

THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

C1: AGREEMENT AND CONTRACT DATA

CONTENTS

- C1.1 PRO FORMA FORM OF OFFER AND ACCEPTANCE
- C.1.2 CONTRACT DATA
 - C 1.2.1 GENERAL CONDITIONS OF CONTRACT
 - C 1.2.2 SPECIAL CONDITIONS OF CONTRACT
 - C 1.2.3 CONTRACT SPECIFIC DATA
- C1.3 PRO FORMA FORM OF GUARANTEE

FORM F – PRO FORMA FORM OF OFFER AND ACCEPTANCE

C1.1 PRO FORMA FORM OF OFFER AND ACCEPTANCE - RENDERING OF SERVICES (as per GCC 2015)

<u>OFFER</u>

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS

.....

......Rand (in words); R(in figures)

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

For the Tenderer:

Signature(s):	
Name(s):	
Capacity:	
Date:	

Name and address of organisation:

Signature and names of	witness:
Signature(s):	
Name(s):	
Capacity:	
Date:	

ACCEPTANCE

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's offer shall form an agreement, between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract, are contained in

Part T1:	Tender Data
Part T2:	Returnable Schedules and Documents

- Part C1: Contract Data
- Part C2: Pricing Data
- Part C3: Scope of Work
- Part C4: Site Information

and drawings and documents or parts thereof, which may be incorporated by reference into Part T1 to Part C4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the Tenderer (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this agreement shall constitute a binding contract between the parties.

For the Employer:	
Signature(s):	
Name(s):	
Capacity:	
Date:	

Name and address of organisation:

Signature and names of witness:

Signature(s):	
Name(s):	
Capacity:	
Date:	

SCHEDULE OF DEVIATIONS

Notes:

- 1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender;
- A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here;
- 3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here;
- 4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

1.	Subject:
	Details
2.	Subject:
	Details
	Details

By the duly authorised representatives signing this Agreement, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender schedules, as well as

any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

FOR THE TENDERER:		FOR THE EMPLOYER
	Signature(s)	
	Name(s)	
	Capacity	
Name and address of organisation		Name and address of organisation
	-	
	Witness signature	
	Witness Name	
	Date	

C1.2 CONTRACT DATA

C1.2.1 GENERAL CONDITIONS OF CONTRACT

The Contract shall be governed by the "General Conditions of Contract for Construction works, Third Edition, 2015, published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685 and is obtainable from www.saice.org.za. It is supplemented with the Special Conditions of contract for the GCC and the Contract Data for GCC.

The only variations from these General Conditions of Contract shall be given in the Special conditions of Contract below. Whenever there is a conflict, the provisions in the Special Conditions and contract specific data of Contract shall prevail.

C1.2.2 SPECIAL CONDITIONS OF CONTRACT

C1.2.2.1 GENERAL

These Special Conditions of Contract (SCC) form an integral part of the Contract. The Special Conditions of Contract shall amplify, modify or supersede, as the case may be, to the extent specified below, and shall take precedence and shall govern.

C1.2.2.2 AMENDMENT TO THE GENERAL CONDITIONS OF CONTRACT FOR CONSTRUCTION WORKS. (3rd Edition 2015) (GCC)

The clauses of the Special Conditions hereafter are numbered "SCC" followed in each case by the number of the applicable clause or sub clause in the General Conditions of Contract for Construction Works (3rd Edition 2015), and the applicable heading. A new special condition, that has no relation to the existing clauses, is introduced by a number that follows after the last clause number in the General Conditions, and an appropriate heading.

The pro forma annexures included in the General Conditions of Contract for Construction Works (3rd Edition 2015) are deleted for the purpose of this Contract and are replaced with the forms bound into this document

SCC 1(1) Definitions

The definitions contained in Clause 1(1) are hereby amended and/or supplemented as follows:

SCC 1.1.1 In the contract defined as:

DWS06 0523 WTE

"THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE -CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER "

the following words and expressions shall have the meanings herby assigned to them

except where the context otherwise requires:

- SCC1.1.1.15 "Employer" means the Department of Water and Sanitation acting on behalf of the Government of the Republic of South African and shall include the Employer's duly authorised representative.
- SCC1.1.1.16 "Employers Agent" means Contract Manager Department of Water and Sanitation: Construction South or any other person appointed from time to time by him and notified in writing to the Contractor.
- SCC 6.5 Day works: Delete in entirety

Contract Part C1: Agreement and Contract Data

- SCC 8.6.1 Change paragraph to read "Except if provided otherwise in the Contract Data, the Contract, without limiting his obligations in terms of the Contract, shall as part of the documentation required before commencing with the works in accordance with Clause 5.3.1, at his own cost, effect and maintain the following insurances in the name of the Contractor."
- SCC 8.6.1.1 Delete
- SCC 8.6.1.1.1 Delete with sub-clauses
- SCC 8.6.1.3 Change paragraph to read "Liability insurance that covers the Contractor against its respective liability for the death of, or injury to any person, or loss of, or damage to property arising from or in the course of the fulfilment of the Contract, from the Commencement Date to the issue of the Certificate of Completion for a limit of indemnity covering the risks of the Contractor for an amount not less than stated in the Contract Data."
- SCC 8.6.6 Delete
- SCC 8.6.7 Delete
- SCC 2.2.4 Add:

There will be standing times in terms of days, where there might be not fixing of reinforcement work to be done. And therefore no claim will be entertained for less 14 days standing time.

If cannot provide work for 28 days continuously site will be de-established (7 day notice will be given) by the Employer.

Site re-establishment will be done given a 7days notice period.

C1.2.3 CONTRACT SPECIFIC DATA

The General Conditions of Contract for Construction Works, Third Edition, 2015 published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685, is applicable to this Contract and copies of these Conditions of Contract may be obtained from the South African Institution of Civil Engineering (Tel 011 805 5947), www.saice.org.za.

The General Conditions of Contract make several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the General Conditions of Contract.

The following contract specific data, referring to the General Conditions of Contract for Construction Works Third Edition (2015), are applicable to this Contract:

Clause	Description	Information
1.1.1.13	Defects and liability period	12 Months
1.1.1.14	The time for practical Completion	55 Months from commencement date
1.1.1.15	The name of Employer	Department of Water and Sanitation: Construction South
1.2.1.2	The address of the Employer	Department of Water and Sanitation Construction South 4-6 Alkmaar Str. Paarl
1.1.1.16	The name of the Employers Agent.	To be indicted in contract
1.1.1.26	The Pricing Strategy	Re-measurable
3.2.3	Specific approval of the Employer required	 5.7.3 Acceleration 5.12.3 Extension of Time 6.3.1 Variations 9.1 Termination of Contract 9.2 Termination by Employer 10 Claims and Disputes
5.1.1.1	Special non-working days	 Statuary holidays as declared by National or Regional Government. Three weeks annual Builders holiday December to January (dates to be confirmed) The last Friday of every month.
5.8.1	The non-working days	Sundays
5.3.1	The documentation required before commencement with works execution:	Health and Safety plan (Clause 4.3) Initial programme (Clause 5.6) Security (Clause 6.2) Insurance (Clause 8.6)

PART 1 COMPULSORY DATA PROVIDED BY THE EMPLOYER

		Method Statements (as required by the applicable Specifications)
		Environmental Plan
		Other documents as specified in C3
5.3.2	The time to submit the documentation required before commencement with Works execution	28 days
5.4.2	The access and possession of the Site	Shall not be exclusive to the Contractor but as set out in the Site Information
5.13.1	The penalty for failing to complete the Works	R50 000,00 per working day
5.14.1	Requirements for practical completion	On submission and signed of all cut, bend and installation/fixing of reinforcement records and reports of scheduled work.
5.16.3	The latent defect period	10 years
6.8.2	The value of the certificates issued shall	x = 0,10 (Fixed)
	be adjusted in accordance with the	Values of coefficients are:
	Contract Price Adjustment Schedule with the following values:	a = 0.15 Labour
	$(1-x)\left[\frac{aL_t}{L_0} + \frac{bP_t}{P_0} + \frac{cM_t}{M_0} + \frac{dF_t}{F_0} - 1\right]$	b = 0.30 Contractors Equipment
	$\begin{bmatrix} C & A \\ A \end{bmatrix} \begin{bmatrix} L_o & P_o & M_o & F_o \end{bmatrix}$	c = 0.45 Material
		d = 0.10 Fuel
		Total of all coefficients must equal 1.0
6.8.2	The definition and source of:	As per Statistics South Africa and published by SAFCEC from time to time.
	"Lt" is the "labour Index",	Labour (Lt): Statistical Release P0141, Table A – Consumer Price Index: Main Indices, Geographic indices.
	"Pt" is the "Plant Index"	Plant (Pt): Statistical Release P0151.1, Table 4 – Mining and construction plant and equipment index, Plant and equipment.
	"M _t " is the "Materials Index"	Materials (Mt): Statistical Release P0151.1, Table 6 – Civil engineering material indices, Civil engineering total.
	"Ft" is the Fuel Index	Fuel (Ft): Statistical Release P0142.1, Table 1 – PPI for final manufactured goods.
6.8.2	The base month	The base month used for the calculation will be 30 days before the closing date of the bid.
6.5.1.2.3	The percentage allowance on the net cost of materials actually used in completed work	15%

6.10.1.5	The percentage advance on materials not yet built into the Permanent Works	0%
6.10.3	The limit of retention money	5% of the Contract Value
8.6.1.1.2	Value of plant and materials supplied by the employer to be included in the insurance sum	0
8.6.1.1.3	Amount cover professional fees for repairing damage and loss to be included in the insurance sum	R 5 000 000,00
8.6.1.3	The limit of indemnity for liability insurance	R 50 000 000,00
10.5.3	The number of Adjudication Members to be appointed by the Contractor	Three (3)
10.7.1	The determination of disputes	Legal Process

	FORM G CONTRA	ACT DATA	
C1.2 CC	C1.2 CONTRACT DATA		
PART 2	DATA PROVIDED BY THE CONTRA	ACTOR	
Clause	Description	Information	
1.1.1.9	The name of the Contractor		
1.2.1.2	The address of the Contractor	Physical address:	
		Postal address:	
		E-mail address:	
6.2.1	The security to be provided by the Contractor	Performance guarantee of 10% of Contract sum.	
6.8.3	Price adjustments for variations in the costs of special materials are allowed	Special Material(s) Unit Rate	

(End of Section C1)



FORM H PRO FORMA PERFORMANCE GUARANTEE

C1.3 PRO FORMA PERFORMANCE GUARANTEE

Tender Reference No:

General Conditions of Contract for Construction Works, Third Edition (2015)

PRO FORMA

PERFORMANCE GUARANTEE

For use with the General Conditions of Contract for Construction Works, Third Edition (2015).

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:
Physical address:
"Employer" means:
"Contractor" means:
"Employer's Agent" means:
"Works" means:
"Site" means:
"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.
"Contract Sum" means: The accepted amount inclusive of tax of R
Amount in words:
"Guaranteed Sum" means: The maximum aggregate amount of R
Amount in words:
Type of Performance Guarantee:
"Expiry Date" means:
Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

CONTRACT DETAILS

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

1. VARIABLE PERFORMANCE GUARANTEE

- 1.1 Where a Variable Performance Guarantee has been selected, the Guarantor's liability shall be limited during the following periods to diminishing amounts of the Guaranteed Sum as follows:
- 1.1.1 From and including the date of signing the Performance Guarantee up to and including the date of the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum:

R.....)

1.1.2 From the day following the date of the said interim payment certificate up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, whichever occurs first:

R.....)

1.2 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum, has been issued and the date on which the Certificate of Completion of the Works has been issued.

2. FIXED PERFORMANCE GUARANTEE

- 2.1 Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2.2 The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.
- 2.3 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

3. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

- 3.1 The Guarantor hereby acknowledges that:
- 3.1.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.
- 3.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.
- 3.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:
- 3.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 3.2.2;
- 3.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 3.2.1 and the sum certified has still not been paid;
- 3.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.
- 3.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
- 3.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3; or

Contract Part C1: Agreement and Contract Data

- 3.3.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 3.3; and
- 3.3.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 3.4 It is recorded that the aggregate amount of payments. required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.
- 3.5 Where the Guarantor has made payment in terms of 3.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 3.6 Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 3.7 Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 3.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 3.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 3.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 3.11 This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 3.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at:
Date:
Guarantor's signatory (1):
Capacity:
Guarantor's signatory (2):
Capacity:
Witness signatory (1):
Witness signatory (2):



DEPARTMENT OF WATER AND SANITATION

DWS06 0523 WTE

THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

C2 PRICING DATA

CONTENTS

- C2.1 PRICING INSTRUCTIONS
- C2.2 BILL OF QUANTITIES

C2.1 PRICING INSTRUCTIONS

1. GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Tender Documents which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification), and the Drawings.

2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the Standardised Specifications and each Particular Specification, read together with the relevant clauses of the Project Specification and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

3. QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Bill of Quantities are estimated quantities only and will be subject to remeasuring during the execution of the work. Where quantities or sums are indicated as "Provisional", the Employer reserves the right to adjust the quantity or sum upwards or downwards as necessary, or the item can be omitted altogether. The Contractor shall obtain the Employer detailed instructions for all work before ordering any materials or executing work or making arrangements for it.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities, and the contract price for the completed contract shall be computed at the relevant unit rates and prices, all in accordance with the General and Special Conditions of Contract, the Specifications and Project Specifications, and the Drawings, et. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.

The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

4. PRICING OF THE SCHEDULE

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the Tender is based. Reasonable unit rates and prices shall be entered in the Bill of Quantities as these will be used for the assessment of payment for any additional work that may have to be carried out.

Each item shall be priced and extended to the "Total" column by the Tenderer, with the exception of the items for which "rate only" is required or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

All rates and amounts quoted in the Bill of Quantities shall be in Rand and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities.

5. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

6. MONTHLY PAYMENTS

Unless otherwise specified in the Specifications and Project Specifications, progress payments in Interim Certificates, referred to in Clause 6.10 of the General Conditions of Contract 2015 (Third edition), in respect of "sum" items in the Schedule of Quantities shall be by means of interim progress instalments assessed by the Employer's Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

7. UNITS OF MEASUREMENT

The units of measurement described in the Bill of Quantities are metric units for which standard international abbreviations are used. Abbreviations used in the Bill of Quantities, including some non-standard abbreviations, are as follows:

Non-Standard Abbreviations		
%	percent	
No.	number	
Prov sum	Provisional sum	
R/only	Rate only	
Sum	lump sum	
Standard Abbreviations		
kPa	kilopascal	
М	metre	
m²	square metre	
m ³	cubic metre	
MN	meganewton	
MN.m	meganewton-metre	
MPa	megapascal	
Т	ton (1000 kg)	

For the purpose of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:

Unit:	The unit of measurement for each item of work
Quantity:	The number of units of work for each item.
Rate:	The agreed payment per unit of measurement.
Amount:	The product of the quantity and the agreed rate for an item.
Lump-sum:	An agreed amount for an item, the extent of which is described in the Bills of Quantities but the quantity of work of which is not measured in any units.

8. ARITHMETICAL ERRORS

Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.

If a bill of quantities (or schedule of quantities or schedule of rates) applies and there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the line item total shall govern and the rate shall be corrected. However, in exceptional cases where, in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in either the unit rate or line total, or where the error was obviously not a result of incorrect arithmetic but rather the result of a writing error, the Employer reserves the right to correct either the tendered rate or the line total as the case may be, subject to clarification in terms of SANS 10845 -3 Clause 4.10.

Where there is an error in the total of the prices, either as a result of other corrections required by this checking process or in the Tenderer's addition of prices, the total of the prices shall be adjusted to obtain the correct tender value.

DEPARTMENT OF WATER AND SANITATION



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THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

C2.2 BILL OF QUANTITIES

SBD 3.2

PRICING SCHEDULE – NON-FIRM PRICES (PURCHASES)

NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

 Name of Bidder......Bid number.....

 Closing Time 11:00

OFFER TO BE VALID FOR 120 DAYS FROM CLOSING DATE OF BID

NO PAY REF		PAY REF	SHORT DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
SECTION A : PRELIMINARY AND GENERAL									
			A1 - FIXED-CHARGE ITEM	NS					
A.1	.1	CWD01SC 5.3.1	Establishment of Facilities for Contractor on site (Including all insurance and other costs)	Sum	1				
A.1	.2	CWD01SC 5.3.1	De-establishment of Facilities	Sum	Sum 1				
A.1	.3	CWD01SC 5.3.3; SCC 2.2.4	Temporary de-establishment	No	4				
A.1	.4	CWD01SC 5.3.4; SCC 2.2.4	Re-establishment after temporary de-establishment	No	4				
	Carry forward to summary - Sub Total A1 =								

N	NO PAY REF		SHORT DESCRIPTION	UNIT	QTY	RATE	AMOUNT					
	SECTION A : PRELIMINARY AND GENERAL											
	A2 - TIME-RELATED ITEMS											
A.2	.1	CWD01 SC 5.4.1	Health and Safety and Environmental compliance per month while on site.	Sum	1							
A.2	.2	CWD01 SC 5.4.2	Supervision while on Site.	Sum	1							
	Carry forward to summary - Sub Total A2 =											

NO	IO PAY REF		SHORT DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
	SECTION B : CUTTING, BENDING AND DELIVER OF REINFORCING STEEL (SANS								
B.1	.1	8.3.1	<16mm dia. Mild Steel bars (250 MPa Yield Stress)	Ton	50				
B.1	.2	8.3.1	<16mm dia. High Tensile. Steel bars (450 MPa Yield Stress)	Ton	120				
B.1	.3	8.3.1	≥16≤25 mm dia. High Tensile. Steel bars (450 MPa Yield Stress)	Ton	4000				
B.1	.4	8.3.1	32mm dia. High Tensile Steel bars (450 MPa Yield Stress)	Ton	700	·····			
	Carry forward to summary - Sub Total B1 =								

NO	NO PAY REF		DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
	INSTALLING / FIXING OF REINFORCING STEEL AT CLANWILLIAM DAM SITE (SA							
B.2	.1	8.3.1	<16mm dia. Mild Steel bars (250 MPa Yield Stress)	Ton	50			
B.2	.2	8.3.1	<16mm dia. High Tensile. Steel bars (450 MPa Yield Stress)	Ton	120			
B.2	.3	8.3.1	≥16≤25 mm dia. High Tensile. Steel bars (450 MPa Yield Stress)	Ton	4000			
B.2	.4	8.3.1	32mm dia. High Tensile Steel bars (450 MPa Yield Stress)	Ton	700			
	Carry forward to summary - Sub Total B2 =							

N	0	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT			
	SECTION C : HIGH YIELD WELDED FABRIC REINFORCING STEEL(IN 2.44 X 6M									
SUF	SUPPLY & DELIVERY OF HIGH YIELD WELDED FABRIC REINFORCING STEEL TO CLAN SITE									
			(SANS 1200)G)						
C.1	.1	8.3.2	Mesh Ref. 193	m²	1000					
C.1	.2	8.3.2	Mesh Ref. 617	m²	7000					
C.1	.3	8.3.2	Mesh Ref. 395	m²	500					
C.1	.4	8.3.2	Mesh Ref. 888	m²	500					
	Carry forward to summary - Sub Total C1 =									

	SUMMARY OF BILL OF QUANTITIES							
SECTION	AMOUNT							
A1	FIXED CHARGES							
A2	TIME RELATED CHARGES							
B1	CUTTING, BENDING AND DELIVERY OF REINFORCING STEEL							
B2	INSTALLING/FIXING OF REINFORCING STEEL AT CLANWILLIAM DAM SITE							
C1	SUPPLY & DELIVERY OF HIGH YIELD WELDED FABRIC REINFORCING STEEL TO CLANWILLIAM DAM SITE							
D	SUB TOTAL (D) = (A1 + A2 + B1 + B2 + C1)							
E	10% CONTINGENCIES (E) OF D							
F	SUB TOTAL F (D + E)							
G	20% ESCALATION (G) OF F							
н	SUB TOTAL H (F + G)							
	15% VAT OF H							
	TOTAL incl. VAT (H + VAT)							

-	Service basis. (See note here under)	CONSTRUCTION SOUTH CLANWILLIAM DAM IN THE WESTERN PROVINCE
-	Period required before service after receipt of order:	
	Country of origin	
-	Delivery period:	*FIRM / NOT FIRM
-	Is the price firm?	*FIRM / NOT FIRM
-	Does the offer comply with the specifications	*YES / NO
-	If not to specifications, indicated deviation(s)	
-	Is the offer strictly to specification?	*YES / NO
-	If not to specification, state deviation(s)	

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

- 1. NON-FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON-FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
- 2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$(1-\mathbf{x})\left[\frac{aL_t}{L_o} + \frac{bP_t}{P_o} + \frac{cM_t}{M_o} + \frac{dF_t}{F_o} - 1\right]$$

Where:

- X = Fixed 10% (0,10) of the original bid price. Is portion of the bid price remains firm, it is not subject to any price escalations.
- a = Factor of the bid price for Labour
- b = Factor of the bid price for Contractors Equipment
- c = Factor of the bid price for Material
- d = Factor of the bid price for Fuel

The total of the various factors "a", "b", "c", "d" must add up to 100%

"Lt", "Pt", "Mt" & "Ft" = The indices are available from the STATS SA website (As defined in C1.2.3 – Clause 6.8.2):

Labour (Lt): Statistical Release P0141, Table A – Consumer Price Index: Main Indices, Geographic indices.

Fuel (Ft): Statistical Release P0142.1, Table 1 – PPI for final manufactured goods, Diesel (there is only 1 value for diesel since January 2018, not split anymore).

Materials (Mt): Statistical Release P0151.1, Table 6 – Civil engineering material indices, Civil engineering total.

Plant (Pt): Statistical Release P0151.1, Table 4 – Mining and construction plant and equipment index, Plant and equipment.

3. The following index/indices must be used to calculate your bid price: (As per C1.2.3 Contract data: THE INDICES BASED DATE WILL BE 30 DAYS BEFORE TENDER CLOSING DATE- CLAUSE 6.8.2)

All index's based date (closing of tender) : Date_

4. FURNISH A BREAKDOWN OF PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTORS	PERCENTAGE OF BID PRICE
а	15%
b	30%
С	45%
d	10%
TOTAL	100%

В PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

I / we fully agree to these price escalation adjustment.

SIGNATURE: DATE: (of person authorised to sign on behalf of the Tenderer)



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C3: SCOPE OF WORKS

CONTENTS

- C3.1 STANDARD SPECIFICATION
- C3.2 PROJECT SPECIFICATION
- C3.3 PARTICULAR SPECIFICATIONS

C3.1 STANDARD SPECIFICATION

SS 1 APPLICABLE STANDARD SPECIFICATIONS

In the event of any discrepancy between a part or parts of the Standardised or Particular Specifications and the Project Specifications, the Project Specifications and Particular Specifications shall take precedence. In the event of a discrepancy between the Specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Employer before the execution of the work under the relevant item.

The applicable standard specifications are mentioned in the Project Specification and Particular specification.

List of Standard Specifications applicable, but not, limited to:

- SANS 920:2011
- SANS 282:2011
- SANS 1024:2012
- SANS 10144:2012

(All work shall be done in accordance with the specifications listed in the Project Specification, the Particular Specifications and Drawings.)

C3.2 PROJECT SPECIFICATION

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C3.2 PROJECT SPECIFICATION

The applicable Project Specification is as follows:

Olifants-Doorn River Water Resources Project (ODRWRP) Raising Of Clanwilliam Dam - Volume 3: C3.2 Project Specification (Will be provided in electronic format.)

All work shall be done in accordance with the specifications listed in the Project Specification, the Particular Specifications and Drawings.

PS 1. DESCRIPTION OF THE PROJECT

The raising of Clanwilliam Dam, which will be the first phase of the Olifants-Doorn River. Water Resources Project (ODRWRP), will increase the yield of the dam by about 70 Mm3 per annum to augment the water supplies to the Olifants River irrigation scheme situated in the north-western part of the Western Cape province, as well as to assist in the development of resource-poor farmers.

Clanwilliam Dam is located on the Olifants River, in the Western Cape, approximately 2 km South West of the town of Clanwilliam. The original dam was constructed in 1932-1935 (38m high from the base). The existing structure is a concrete gravity dam, consisting of a controlled ogee gravity spillway with 13 vertical crest gates. The length of the wall is 255 m. The total spillway length is 117,58 m, including the piers between the gates. The dam was raised in 1964 with vertical crest gates. Tensioned cables were supplied to ensure stability of the dam wall.

Currently, water is released downstream via the Olifants River to Bulshoek Weir from where the water is diverted into the dilapidated irrigation canal situated on the left bank. Water is also released from the existing outlet works situated on the right bank into an irrigation canal situated on the right bank, to the pump station on the right bank supplying water to the town of Clanwilliam, and to the hydropower plant situated downstream on the right bank.

The feasibility investigation for raising the dam was completed at the end of 2007 and the Record of Decision (ROD) was issued on 12 May 2009 by the Department of Environmental Affairs. Approval by the Minister for raising the dam by 13 m was issued on 18 August 2010.

In order to comply with current dam safety standards, the Department of Water and Sanitation is also required to implement remedial measures with the raising in the height of the dam wall.

The raised dam wall will be approximately 370 m in length and 49 m in maximum height. At full supply level the reservoir will cover a surface area of approximately 2 022 ha and capacity of 344,3 million cubic metre. The works include addition of concrete on the downstream side, extending the apron, construction of a free standing intake tower, river outlet control house, a power generating house, short tunnel and coffer dam works on the upstream side, as well as various other pipe outlet structures on the downstream side. This work must be done without interfering with the day to day operation of the dam.

PS 2. SCOPE OF THE CONTRACT

PS2.1 General

The detail of the work to be carried out under this contract, to the required standard SANS specifications and the project specifications, at the different structure sections as per the drawings and bending schedules provided by the Employer, includes, but is not limited to:

- a) Supply and delivery of mild steel and high yield reinforcing steel (250 MPa & 450 MPa) in 13 m lengths, fabric, and already cut and bent to the required shape codes and sizes to the designated steel fixing area on Clanwilliam Dam Construction site.
- b) Reinforcement steel will be placed in position and fixing of reinforcement and supporting steel schedules, as well as the provision of all spacer devices and binding wire to be included.

The quantities are considered to be a reasonable estimate of the expected work to be done under this contract.

Contract Part C3: Scope of Works The employer reserves the right not to award all components of the work described in this document. No claim for additional costs shall be considered in the event of certain components of work specified not being undertaken nor for quantities that deviate significantly from the estimated quantities.

The work is subdivided into the following major sections:

- Coffer dam and Intake Tower with Inlet Works U/S of the dam wall inclusive of parking area
- Tunnel, Left Bank Outlet Works and Right Bank Outlet Works
- All Pipe Encasements
- Galleries
- Spillway and Apron
- Left Bank and Right Bank NOC
- Left Bank and Right Bank Retaining walls

It is the Employers responsibility to assist with:

- Transport of materials on site
- Lifting of materials on site
- Installation of scaffolding and safe working platforms

PS2.2 Material

The Contractor shall be responsible for the quality of reinforcing materials and the supply & delivery, cut, bend and fixing of reinforcing including dowels. This incorporates workmanship and production processes in fulfilment of the Contract.

No imported materials will be accepted under this Contract. The material will adhere to the following standards:

- High tensile Steel (SANS 920:2011 450MPa) reinforcing bars denoted by the letter "Y", deformed bar in diameters: 8,10,12,16,20,25,32 and 40mm
- Mild Steel (SANS:920:2011 250MPa) reinforcing bars denoted by the letter "R", smooth bar in diameters: 8,10,12,16,20,25,32 and 40mm
- Welded mesh fabric reinforcement Standard fabrics (SANS 1024 485MPa)

PS2.3 Cutting & Bending Reinforcement

Reinforcing bars shall be bent to the dimensions shown on the Drawings and in accordance with SANS 282. All reinforcing steel shall be stored on Site in such a manner as to avoid distortion and shall be protected from aggressive environments and contamination from foreign matter. Bars shall be clearly marked either individually or in bundles with their code numbers immediately after cutting and / or bending and before fixing commences.

No flame cutting will be permitted on high yield bars without prior approval.

Already bent reinforcing bars shall not be re-bent at the same spot.

The Contractor shall cut and bend reinforcing steel at the Contractor's premises, and supply the already cut and bend reinforcement as per bending schedules or requested by Employer according to the program / requested by the Employer.

Reinforcement sizes shall range from 10mm to 32mm but not limited to, as per bending schedules.

See preliminary reinforcement and bending schedule drawings under C4 for other structures & sections.

NOTE: No flame cutting of steel bars shall be permitted without prior authorisation from the Employer.

PS2.4 Installing/Fixing of Reinforcement

Reinforcement shall be positioned as shown on the Drawings and maintained in those positions with the permissible deviation to Degree of Accuracy II as specified in Table 1, unless otherwise shown on the Drawings or ordered by the Employer's Agent. The reinforcement shall be secured by tying at intersections with annealed wire of nominal diameter 1,6 mm or 1,25 mm or by the use of acceptable clips. Reinforcement shall be supported in its correct position by means of hangers or saddles and aligned by chairs and spacers. Welding of reinforcement will not be permitted

Table1: Permissible deviations(mm)

		DEGREE OF ACCURACY			ACY
		I	Ш	Ш	IV
(1)	Reinforcement				
	(a) Spacing between two adjacent bars	+/-25	+/-20	+/-15	
	(b) Longitudinal location of bend's and ends of bars	+/-40	+/-30	+/-20	
	(c) Cover to reinforcement	-0 +20	-0 +20	-0 +10	

The Contractor shall ensure that, at the time of placing concrete, all steel is free from loose or powdery rust, scale, oil and other coatings that may reduce the bond between steel and concrete, affect the durability of the concrete or initiate corrosion in the reinforcement. If any material other than water is used for lubricating the formwork, every precaution shall be taken to avoid contamination of the reinforcement.

NB: Reinforcing will be fixed as per the drawings and specifications. Some installations will require working on heights. See C4.1 Tender Drawings; item 4.1.25 – 4.1.31

PS2.5 Cover

The reinforcement shall be fixed to ensure the minimum concrete cover as specified on the drawings is maintained between the outside of any bar or stirrup and the face of the concrete. The permissible deviation shall be to degree of accuracy II as specified in Table 1 above, unless otherwise shown in the drawings or ordered by the Engineer. Any cover or spacer blocks used to maintain the concrete cover shall be as small as possible and be of an approved material and design.

PS2.6 Method statements

It is a requirement of this contract that final work procedures must be approved before commencement of work. Method statements will full details concerning the methods, equipment and materials will be required for the following but not limited to:

- The transport of material
- The cut and bend of reinforcing
- The fixing of reinforcement and fabric reinforcement at all relevant structures in the works

The above method statements, preliminary method statement must be submitted with the tender to evaluate the ability of the Contractor to perform the work according to specification.

PS 3. THE SITE

PS 3.1 Location and access to site

The dam site is situated on the Olifants River, in the Western Cape, approximately 2 km South- West of Clanwilliam town in the Western Cape province.

The site is immediately next to the N7 and accessed through a controlled gate. The gravel site roads will be regularly maintained but could get challenging under abnormal rainfall conditions.

PS 4. FACILITIES PROVIDED BY EMPLOYER'S AGENT to CONTRACTOR

PS4.1 Contractors Yard

A Storage area, to the west of the N7 will be provided as part of the main site establishment area. If the Contractor requires more area or any other area it must be specified in his document and be negotiated with the Employer.

The Employer will supply only potable water for human consumption. The Contractor must make arrangements for its own water distribution required in the performance of its duties.

PS 5. FACILITIES PROVIDED BY CONTRACTOR FOR WORKS

PS5.1 Electrical Power and Distribution

The Contractor shall make his own arrangements to provide his own power supply.

Failure or interruption of the power supply shall not relieve the Contractor of any of his obligations under the Contract.

PS5.2 Accommodation and Site Facilities

The Contractor must supply his own offices and storage facilities. The Employer's Agent will indicate available area for site establishment.

The Contractor shall make his own arrangements for accommodation for his staff. No accommodation is allowed on the site in terms of the Environmental EMP. (Will be provided in electronic format.)

The Contractor shall make own arrangement to transport employees to the site.

PS5.3 Storing of Reinforcement

Reinforcement steel may be stored to the designated steel fixing area on Clanwilliam Dam Construction site.

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PS5.4 Resting and eating areas

The Contractor shall provide sufficient and suitably positioned areas for use by his workers on site during resting and eating periods. Sufficient refuge bins, tables and seating must be provided. Existing and new permanent structures for the raised dam wall may not be used as resting and eating areas.

PS5.5 Sanitation and cleaning

The Contractor shall provide at or within 200m of each work place (As per EMP) chemical toilet facilities with toilet paper, potable water, soap and towels together with industrial soaps and barrier creams as appropriate. The Contractor shall maintain all toilet facilities in a clean and sanitary condition and shall take all necessary precautions to prevent pollution of the Site. The sewage will be disposed of at a registered disposal facility and the disposal certificate will be kept on record.

The Contractor shall ensure that there are adequate and sufficient refuse bins in and around the working area and that these shall be emptied frequently. All refuse bins shall be placed on a concrete base, which shall, from time to time, be sprayed with insecticide. All refuse collection, removal and disposal on site shall be the responsibility of the Contractor. All refuse shall be disposed of at a licensed landfill site only, and certificates of receipt shall be kept on record.

The Contractor shall clear away and remove all traces of the toilets and restore the sites to their original condition as soon as the toilets are no longer required

PS5.6 Access control and security

The Employer will be responsible for access control and security for the site. The Contractor will abide by the access control measures. The Contractor is responsible for the safeguarding and protection of their own Contractor's provided area and equipment/tools on site. The Employer does not take any liability for the Contractor in terms of security what so ever.

PS 6. WORKING TIMES

PS 6.1 DWS – Construction South - Clanwilliam Dam Working Hours

Deliveries and work may be done during these working hour:

October – March (Summer time)

- Monday to Thursdays: 06:30 am 16:15, and
- Friday's : 06:30 15:00

April – September (Winter time)

- Monday to Thursday: 7:00 to 16:45, and
- Friday 7:00 to 15:30

But not on the following days or periods:

- (i) Fridays 15:00 to Mondays 07h00;
- (ii) All public holidays and Sundays;
- (iii) Builders holidays: The period 11 December to 9 January (roughly); &
- (iv) The last Friday of the month.

Unless otherwise agreed.

Each consignment will be delivered to the designated store yard at the site, accompanied by the necessary delivery documents, stating the tender number, item description and quantity delivered.

PS 6.2 Work at Night

Written permission will be obtained to work at night. Responsible and qualified supervisory staff shall always be present and sufficient light must be available to conduct the work safely.

PS 6.3 Sunday Working

Sunday work shall not be permitted except for necessary maintenance, repairs and emergencies and shall only be undertaken with the prior written approval of the Employer.

PS 6.4 Last Friday of Month

The last Friday of the month is regarded as the pay day of the Employer's personnel. This is a nonworking weekend for Employer's personnel, and the Contractor will only be allowed to work with special permission on this day.

PS 6.5 Builders Holiday and Public Holidays

The site will close for the end of the year's Builders Holiday period. Work will not normally be permitted on Public Holidays, except when approved by the Employer.

PS 7. CLIMATIC CONDITIONS

PS7.1 Rainfall data

The rainfall data to be used for extension of time arising from abnormal rainfall is presented in the below table: rainfall record.

Table: Rainfall Record

Rainfall Station No:00846710 Clanwilliam

Period: 1992-2012

Month	AVE	STD DEV	N DAY	NUM MON	MAX R	MAX RAIN
			RAIN		DAY	DATE
January	0,0	0.26	0,05	19	13,8	5/1/2004
February	0,25	0.53	0.11	20	10,8	23/2/2010
March	0,45	0.89	0.14	20	29	26/3/1997
April	0,85	1.38	0.33	20	21.4	26/4/2007
May	2,05	3.05	0.76	19	25	8/5/1998
June	3,03	3.98	1.35	18	54.5	8/6/1997
July	2,67	3.23	1.05	18	29.4	26/7/2007
August	2,03	2.80	0.58	18	27.8	18/8/2003
September	0,95	1.35	0.37	18	11.5	12/9/1996
October	0,52	0.91	0.22	18	12.6	19/10/2011
November	0,67	1.16	0.21	18	29.4	8/11/2009
December	0,52	1.11	0.21	18	19.6	24/12/2007

Explanation of headings:

'AVE' represents the average rainfall for the month = Rn

STD DEV' represents the standard deviation from the normal

'N DAY RAIN' represents the average number of rain days per month exceeding 10 mm = Nn

'NUM MON' represents the number of months used in the calculation

'MAX R DAY' represents the maximum rainfall that occurred over a 24-hour period (08:00-08:00)

'MAX RAIN DATE' represents the date on which the maximum 24 hour rainfall occurred

PS7.2 Extension of time arising from abnormal rainfall

Extension of time in terms of the Conditions of Contract arising from abnormal rainfall shall be calculated separately for each calendar month or part thereof in accordance with the formula given below. It shall be calculated for the whole period until completion of the contract including any extension thereof:

$$V = (N_W - N_n) + (0,050 \times (R_W - R_n))$$

If V is negative and it absolute value exceeds Nn then V shall be taken as equal to minus Nn.

The symbols shall have the following meanings:

- V = Extension of time in calendar days in respect of calendar month under consideration.
- Nw = Actual number of days during the calendar month on which a rainfall of 10 mm or more has been recorded.
- Rw = Actual rainfall in mm for the calendar month under consideration.
- Nn = Average number of days, as derived from existing rainfall records provided in Table 1.12.1, on which a rainfall of 10 mm or more has been recorded for the calendar month.
- Rn = Average rainfall in mm for the calendar month, as derived from the rainfall records supplied in Table 1.12.1

The total extension of time shall be the algebraic sum of the monthly totals for the period under consideration. Extensions of time for part of a month shall be calculated using pro rata values of Nn and Rn.

The factor (Nw - Nn) shall be considered to represent a fair allowance for variations from the average number of days during which rainfall exceeds 10 mm.

The factor 0,050 (Rw - Rn) shall be considered to represent a fair allowance for variations from the average in the number of days during which the rainfall does not exceed 10 mm but wet conditions prevented or disrupted work.

Accurate rain gauging shall be taken at the weather station to be supplied by the Employer's Agent at a suitable point on Site.

PS 8. PROGRAMMING REQUIREMENTS

PS 8.1 Preliminary Tender Program

The Tenderer shall submit a preliminary programme in the form of a Gant chart with the tender. As per requirement in T2 – returnable schedules, Annexure L (for cut, bend & installing/fixing of reinforcing steel).

A program will be provided to the Tenderers at the compulsory site briefing session. (Will be provided in PDF format.)

PS 8.2 Program requirements

A construction programme in Construction Computer Software for Windows (CCS) format, used by the Employer for the construction programming of the Clanwilliam dam will be used to determine the requirements and work areas.

From the contractual programme the Contractor shall make provision for:

An average steel fixing rate of 8 tonnes of steel to be fixed within three working days;

To complete cutting and bending within a period of two weeks from the date of receiving a bending schedule. Steel must not be bent or delivered that will not be used within a four week period from delivery.

The Contractor shall take all necessary and required steps to ensure that his / her staff and personnel adhere to the construction programme requirements.

The Contractor shall not be allowed extension of time due to any mechanical failure of his / her equipment; provision must be made for standby equipment.

PS 8.3 Contract Programme Maintenance and Progress Monitoring

A detail Contract Programme shall be developed using the latest version of Construction Computer Software for Windows or Microsoft Project for Windows or equal.

Five working days before the monthly progress meeting the Contractor shall submit to the Employers Agent a programme update that reflects the actual progress against current programmes and the effect on future activities.

The Contractor shall also submit a narrative report with each monthly update including a description of current and anticipated programme related problem areas, current and anticipated delaying factors and their impact, and an explanation of corrective actions taken or proposed.

All variances from the Contract Programme shall be promptly reported and the future impact of such variations shall be determined and analysed by the Contractor and necessary corrective measures established, subject to the approval of the Employer's Agent.

PS 8.4 Progress Meetings

The Contractor will be required to attend regular site meetings with the Employer or Employer's Agent where the progress of construction will be reviewed. Such meetings will normally be held monthly. The Contractor shall also attend weekly meetings with the Employer's Agent and provide, prior to each meeting as required by the Employer's Agent, detailed programmes showing separately the various activities of the Contractor anticipated over the forthcoming two-week period.

PS 9. CONSTRUCTION MATTERS

PS9.1 General Responsibilities

The Site and all services are under the control of the Employer and therefore the Employer expects the Contractor to liaise regularly with the Employer's Agent in order to ensure smooth execution and integration of activities with the Employer.

Non-performance of the Employer shall not relieve the Contractor of any of his obligations under the Contract.

The Construction Permit has been issued for the project in the Departments name and is thus not necessary for Contractor to apply for it.

PS9.2 Contractors Methods and Materials

It is a requirement of this contract that final work procedures must be approved before the commencement of work. Method statement to be submitted for approved 14 days before start date, to the Employer, unless if otherwise instructed. It shall consist of full details concerning the methods, equipment/tools and materials will be required for the following but not limited to:

- Cut and Bending reinforcement
- Installing/Fixing of reinforcement on site

The Tenderer shall submit a preliminary Method Statement (including, project program, , equipment/tools to be used, methodology to be followed, quality management plan, environmental, health and safety, but not limited to), with the tender. As per requirement in T2 – returnable schedules, Annexure L (for cut, bend and installing/fixing reinforcement).

PS9.3 Quality Management

The Contractor shall be responsible under the Contract for the quality and installation of reinforcing steel, workmanship and production processes in fulfilment of the Contract. The Contractor shall have a Quality Management system in place in order to satisfy the Specification relevant to each operation to the works in accordance with the Contract:

Quality control procedures to include:

- Deliveries;
- Invoicing;
- Personnel responsibilities;
- Hold points in production for inspection;
- Documentation and communication; &
- Drawing issue procedures.

Records and returns shall be reported to the Employer in an agreed format:

The Contractor shall keep accurate daily records detailing work carried out on the works and shall submit them to the Employer prior to the weekly and or monthly progress meeting or at such other times as the Employer may require. The records shall include the following for each portion of the works separately and in sufficiently detail to establish the person- hours and equipment hours expended:

- Extent of work done;
- The numbers of each category of workmen and supervising staff;
- The numbers and types of Contractor's Equipment used;
- The time and duration of any significant delays or breakdowns of any Contractor's Equipment; and
- Any other events relevant to progress of the Works.

The Contractor shall also provide such further information as may be requested by the Employer

PS9.4 Competence of Workmen

The Contractor shall ensure that only competent personnel are employed in operations involving cutting, bending and installing/fixing of reinforcement skills affecting the quality of the works. Should the competence of any member of the Contractor's workforce be in doubt, the Employer may order that the member be sent for additional training at the Contractor's account and/or that member be replaced with a competent person to perform that work.

PS9.5 Contractor's Returns

Records and returns shall be reported to the Employers Agent in an agreed format:

a) Weekly

The Contractor shall keep accurate daily records detailing work carried out on the works and shall submit them to the Employers Agent prior to the weekly progress meeting or at such other times as the Employer's Agent may require. The records shall include the following for each Portion of the Works separately and in sufficiently detail to establish the person- hours expended:

- Extent of work done;
- The numbers of each category of workmen and supervising staff;
- Any other events relevant to progress of the works.

The Contractor shall also provide such further information as may be requested by the Employer's Agent.

b) Day work and Similar Records

Records shall be kept daily of labour and materials where there is an agreement to pay by day works. Such records shall be valid only when signed by both parties.

In cases where there is any dispute or uncertainty on payment procedure, sheets shall be signed daily by both parties as an agreed record of work done but shall not imply any commitment concerning payment. These sheets shall be annotated "For record purposes only".

PS 10. LOCAL SOCIO-ECONOMIC DEVELOPMENT PARTICIPATION OBJECTIVES

The following shall be applicable to this Contract as per particular specification CWD 68:

The Department of Water and Sanitation (DWS, also referred to as the "Employer") is committed to transformation within the construction industry and water sector through the optimisation of socioeconomic benefits within its sphere of business influence in terms of the Broad-Based Black Economic Empowerment Act, (Act No. 53 of 2003). The general principles, upon which the implementation of the Olifants-Doorn River Water Resources Project (ODRWRP) is based, are:

Contribute to local and regional economic development by optimising the use of locally available skills, materials and resources - Local Socio-Economic Participation and Development (LSEPD);

Promote transformation, technology and skills transfer within the infrastructure development industry through employment creation, preferential procurement, enterprise development, training and skills development objectives - Socio-Economic Empowerment (SEE);

Ensure the project is implemented in a socially responsible and sustainable manner, and

Ensure economic access for Black people living in rural areas by incorporating them into the mainstream economy.

The Contractor must adhere to the minimum requirements and to report monthly on the implementation and compliance of the performance monitoring criteria of this specification (CWD68). The Employer will audit the Contractor's compliance to this specification and notify the Employer's Agent to direct the Contractor on any non-compliance.

The cost for all personnel recruitment/administration and training in respect to compliance of this specification shall form part of the SAFCEC rates.

PS 10.1 Appointment of Labour

The Labour Desk which will be established by the Employer will be responsible for the recruitment of local labour. The Contractor shall advise the labour desk or CLC – Community liaison Committee in writing of the numbers of each category of temporary workers, which is required, and the period for which they are required.

The Contractor shall pay his employees and shall ensure that his Sub-contractors pay their employees rates of remuneration not less than prescribed by legislation and applicable to the area of the Works and shall observe conditions of employment which are no less favourable than those which are customary in the area in which the works are to be constructed for those trades and occupations involved in the fulfilment by the Contractor of his obligations under the Contract. The Contractor shall also practice and ensure that his Sub-contractors practice a policy of equal remuneration, conditions of employment and benefits for people of equal skills and productivity.

Local employment targets for local labour from designated groups to be comply with, as per CWD 68 (Table CWD68.4.1), is as follow:

Designated Groups	Skilled or permanent staff target (%)	Local labour minimum target (%)
Black people	75	90
Women	10	15
Youth	5	20
People with disabilities	2	1

PS 10.2 Local Procurement

The Contractor is to support Enterprises and Business in the local Clanwilliam Town and in Municipality area, including the township and rural areas, for goods or services.

PS 10.3 Training and Skills Development

The Employer is committed to the development of labour from the local area as well as elsewhere in SA. To achieve this objective, the Contractor shall implement a formal skills plan by following accredited SETA training programmes.

The Contractor is required to invest a minimum of 0,5% of the accepted Tender Amount on accredited SETA site training and development programmes.

NOTE: The Tenderer should acquaint themselves with the requirements of particular specification CWD 68. The Contractor will adhere to these requirements at all times thorough out the contact period.

PS 11. HEALTH AND SAFETY

PS 11.1 General

The Contractor shall ensure that only competent personnel are employed in operations involving particular skills affecting the quality of the works. Should the competence of any member of the Contractor's workforce be in doubt, the Employer may order that the member be sent for additional training at the Contractor's account and/or that member be replaced with a competent person to perform the work.

It will be required from the contractor to work on heights on the project.

For this contract the Contractor will be the mandatory of the Employer which means that the Contractor, as employer in his own right in respect of the contract, will be responsible for all the duties and obligations of an employer as set out in the Act(OHSA 1993) and the Construction Regulations 2003. Furthermore, the Contractor shall comply with any additional current statutory requirements of any relevant Government Departments regarding health and safety and specifically environmental health issues.

Nothing specified in this document shall relieve the Contractor of any obligations or responsibilities with regard to health and safety responsibilities.

Where safety precautions are not being observed, the Employer may order the Contractor to comply with minimum safety requirements at the Contractor's expense, and compliance with such an order will not absolve the Contractor from any of his responsibilities and obligations under the Contract.

All Covid-19 related regulatory specification needs to be implemented and adhered to by the Contractor.

Before commencement of work under the contract the Contractor shall:

- 1. **Enter into an agreement with the Employer**(Client) to confirm his status as mandatory (employer) for the contract under consideration.
- 2. Submit a Health and Safety Plan to the Employer within 28 days after the Commencement Date. The Contractor shall immediately implement the policy and any amendments, and keep it in operation for the full duration of the Contract.
- 3. **Submit a risk assessment of the contract works** as part of the Health and Safety Plan and which is to include;
 - (i) Identification of the risks and hazards;
 - (ii) Analysis and evaluation of the risks and hazards identified;
 - (iii) A documented plan of safe work procedures;
 - (iv) A monitoring plan; and
 - (v) A review plan.

4. **Undergo compulsory Site Safety and Environmental Induction training** by all personnel who will be performing supervisory work and work related to the work under this contract before starting with any work on site.

The Contractor is required to keep health and safety records (which shall include audit reports) on site in an orderly filing system which shall be handed over to the Employer on completion of construction.

Failure by the Contractor to comply with safety requirements will entitle the Employer to reduce payment of the relevant Bill of Quantity items and/or order a temporary halt of work within the affected areas until the specified requirements are met, without any extension of time being granted and without any additional payment.

All vehicles and plant to be operated and maintained according to Construction Regulations 23.

Refer to CWD01 HS Health and Safety Specification in the Particular Specification Document.

A Pro-Forma Health and Safety plan must be submitted with the Tender as per requirement in T2 returnable schedule (Annexure L- Cut, Bend, And Installing/Fixing Reinforcing Steel).

PS 11.2 Audits

The Contractor shall arrange for health and safety audits at monthly intervals to be carried out. The results and details of these audits shall be submitted to the Employer's Agent within the first week of the next month.

The Employer will monitor compliance by the Contractor with the Health and Safety Policy by means of Audits, and may give instructions for improvements.

The Contractor shall note that independent health and safety audits (or if considered suitable by the Employer combined audits with the Contractor's auditor) will be carried out as considered necessary by the Employer.

PS 11.3 Works Health and Safety Committee

For the purpose of implementing and monitoring the Health and Safety Plan the Contractor shall put in place a Health and Safety Committee.

The Committee shall meet at least at monthly intervals. Minutes of the meeting shall be kept by the Contractor and copied to Employer within 7 days of the meeting.

PS 11.4 Health and Safety Officers

The Contractor shall appoint a full-time permanent Health and Safety Officer on the commencement of the works. On the commencement of shift working, the Contractor shall appoint at least one deputy with the same duties. The Health and Safety Officer and the deputy (or deputies) shall be employed exclusively on health and safety matters, and at least one of them shall always be available on Site so that Health and Safety matters receive 24-hour coverage for the full duration of the Contract. The Health and Safety Officer or his deputy shall carry out regular and random checks of all parts of the Site where work is taking place.

PS 11.5 First Aid Provisions

The Contractor shall provide a first aid station. The Contractor shall institute and operate a basic first aid training program to ensure that at least each foreman or work crew leader is trained in first aid and possesses a valid certificate to that effect issued by the Red Cross Society of South Africa, or equivalent qualification within 3 months of his appointment. There shall be a person certified in first aid in each work crew.

PS 11.6 Accident Reporting

The Contractor, through the Health and Safety Officer or his deputy, shall keep the Employer's Agent informed at the time, or as soon thereafter as is practical but not later than 12 hours, of any occurrence during the course of work, whether on or off the Site, if the said occurrence affected or may have affected the health or safety of any person employed on the Site or of any member of the public. The Contractor shall submit to the Employer's Agent at the end of each month reports and statistics in

Contract Part C3: Scope of Works C3.3 Particular Specifications Page | 110 spreadsheet format approved by the Employer's Agent on all accidents involving any person employed on or visiting the works.

PS 11.7 Workman's Compensation Act

By accepting the Contract, the Contractor warrants that all his and his Sub-Contractor's workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act (Act no 130 of 1993) which covers shall remain in force whilst any workman is present on the Site.

PS 12. ENVIRONMENTAL REQUIREMENTS

The Contractor shall take full responsibility for protecting the natural environment and eliminating or minimising the negative impacts of construction on the environment during construction.

PS 12. 1 General

The main project, Raising of Clanwilliam Dam, has been environmentally authorised under a Record of Decision (ROD)/ Environmental Authorization. The ROD requires that all activities conducted by the Employer and Contractors/Sub-contractors are within the framework of the Environmental Management Plan (EMP) and Rehabilitation Specifications (RS).

The Contractor and his staff must be familiar with the *EMP* & *RS* and execute the project in such a way that it complies with the requirements of the EMP and RS. The Employers Agent will regularly inspect the Contractor's site. In the event that the Contractor does not comply with the requirements the deviation must be rectified as recommended by the Employer at the Contractor's cost.

The Contractor shall construct and/or implement all the necessary environmental protection measures in each area before any production work will be allowed to proceed. The Employer may suspend the works at any time should the Contractor, fail to implement, operate or maintain any of the environmental protection measures adequately. The costs of such suspension shall be to the Contractor's account.

The Contractor shall submit a Method Statement containing details of all site layouts and environmental protection measures proposed to the Employer for review and approval.

These shall include:

Pollution prevention measures;

Full Environmental file to be submitted before any work will commence on site (including but not limited to): Copy of Site Environmental Inspection Documents / Sheet

PS 12. 2 Temporary Services and Facilities

When refuelling of vehicles and plant it needs to be done in a banded area, and or if not possible, needs to be done over a secured drip tray.

Vehicles worked on outside the wash bays will have portable drip trays placed under them to catch oil and diesel which may leak from the vehicles.

PS 12. 3 Refuse and Waste Control

The management of solid waste on site shall be strictly controlled and monitored. The Contractor shall adhere to and implement the following:

- Labelled recycling bins shall be used and waste separated where possible. In addition, a
 recycled-material collection schedule shall be established and the bins shall be collected
 regularly;
- Eating areas for the construction staff shall be designated and supplied with waste bins to control litter;
- No on-site burying or dumping or unauthorised burning of any waste materials, vegetation, litter or refuse shall occur;

Solid waste shall be disposed of off site, at an approved landfill site. The Contractor shall supply the Employer with a certificate of disposal; and waste shall be separated into recycling, domestic waste, building/construction rubble, scrap metal, oil and grease and hazardous waste and dealt with in the following manner:

a) Recycling

Suitable recycling bins, all with lids, shall be provided by the Contractor for his own buildings. Recycling shall be collected and removed from all facilities on the Site at least twice per week. Recycling waste shall be transported to the approved refuse disposal site off site in covered containers or covered trucks.

b) Domestic waste

Suitable refuse bins, all with lids, shall be provided by the Contractor for his own buildings. Refuse shall be collected and removed from all facilities on the Site at least twice per week. Domestic waste shall be transported to the approved refuse disposal site off site in covered containers or covered trucks.

b) Organic waste

Refuse from food preparation and eating areas shall be collected and removed daily. Organic waste shall be disposed of as per Domestic waste.

c) Building/Construction waste

Inert building/construction rubble shall be disposed of by burying in the dam basin in borrow pits, at a site and in such a way as approved by the Employer.

d) Scrap metal

Scrap metal shall be disposed of offsite.

e) Used oil and grease

Used oil and/or grease shall be removed from site and sold to an approved used oil recycling company. The certificated thereof shall be placed on file on site.

f) Hazardous waste

All hazardous waste shall be disposed of in an approved hazardous waste disposal site and a disposal certificate supplied to the Employer. The certificated thereof shall be placed on file on site.

PS 12. 4 Protection of Flora

The removal, damage and disturbance of indigenous flora is prohibited. The Contractor shall request permission before removal of any vegetation on the designated work area and undertake to demarcate and protect flora outside the designated work area.

PS 12. 5 Protection of the Fauna

The Contractor shall protect fauna living within the Site and shall ensure that fishing, hunting, snaring, poisoning, shooting, nest raiding or egg-collecting and disturbance does not occur. The Contractor is to ensure that his employees are instructed not to feed wild animals and no domestic pets or livestock are permitted on site.

The use of pesticides is prohibited unless approved by the Employer.

Refer to EMP and CWD 67 Particular Specification Documents.

A Pro-Forma Environmental Management System, inclusive of environmental management plan and waste management plan must be submitted with the Tender as per requirement in T2 returnable schedule (Annexure L- Cut, Bend, And Installing/Fixing Reinforcing Steel).

PS 13. PAYMENT

Payments will be made monthly on receipt of specified tax invoices.

Payment will not be made for consignment unless supported by delivery notes duly signed by the official checking the delivery.

Escalation will only be paid if stipulated in the Special Conditions of Contract.

Payment will be done within 30 days of receipt of original invoice by depositing the payment directly into the bank account of the successful Tenderer. No cash payment or cheque payment will be done.

PS 14 INFORMATION TO BE SUBMITTED BY CONTRACTOR

To be submitted as required in T2 – returnable schedules / documents.

C3.3 PARTICULAR SPECIFICATIONS

Note: Particular Specifications for Conventional Concrete for Dams are specified in;

- (a) Particular Specification CWD32 "CONVENTIONAL CONCRETE FOR DAMS". A copy of the document will be provided during the Compulsory Site Briefing session.
- (b) Civil Project Specifications (Vol 2.1) PS 20.2.

The specific Project, Particular Specifications, Drawings and other documents (as listed below) will be provided in a electronic format.

Particular Specifications applicable are:

CWD 01SC	General
CWD 32	Conventional Concrete for Dams (Where applicable for Reinforcement)
CWD 65	Occupational Health and Safety Specifications
CWD 67	Environmental
CWD 68	Local Socio – Economic Participation and Development
EMP	Environmental Management Plan
Tender Drawings	

C3.3 **PARTICULAR SPECIFICATIONS**

CONTENT

PS 1. REINFORCEMENT

- PS 1.1 General
- PS 1.2 Cutting
- PS 1.3 Bending
- PS 1.4 Installing/Fixing PS 1.5 Cover

PS 1 REINFORCEMENT

PS 1.1 General

The Contractor shall submit to the Employer the bending schedule of the reinforcement steel to be supplied on site together with a clear statement of his planned procedures.

These details shall be submitted 14 days prior to the Contractor's intended start date for installing/fixing reinforcement in a particular section of the dam.

All accidents, injury to persons or damage to property or the Works shall be reported in detail and in writing to the Employer as soon as possible after the event.

PS 1.2 Cutting (CWD32.5.1.1)

No flame cutting of high yield steel bars shall be permitted without prior authorisation from the Employer.

PS 1.4 Installing/Fixing (CWD32.5.1.3)

The Contractor shall ensure that, at the time of placing concrete, all steel is free from loose or powdery rust, scale, oil and other coatings that may reduce the bond between steel and concrete, affect the durability of the concrete or initiate corrosion in the reinforcement. If any material other than water is used for lubricating the formwork, every precaution shall be taken to avoid contamination of the reinforcement. Reinforcement shall be positioned as shown on the Drawings and maintained in those positions with the permissible deviation to Degree of Accuracy II as specified in **Clause CWD32.6**, unless otherwise shown on the Drawings or ordered by the Employer's Agent. The reinforcement shall be secured by tying at intersections with annealed wire of nominal diameter 1,6 mm or 1,25 mm or by the use of acceptable clips. Reinforcement shall be supported in its correct position by means of hangers or saddles and aligned by chairs and spacers. Welding of reinforcement will not be permitted

PS 1.5 Cover (CWD32.5.1.4)

The reinforcement shall be Installed/fixed to ensure the minimum concrete cover as specified on the Drawings is maintained between the outside of any bar or stirrup and the face of the concrete. The permissible deviation shall be to Degree of Accuracy II as specified in **Clause CWD32.6**, unless otherwise shown in the Drawings or ordered by the Employer's Agent. Any cover or spacer blocks used to maintain the concrete cover shall be as small as possible and be of an approved material and design.



DEPARTMENT OF WATER AND SANITATION

DWS DWS06 0523 WTE

THE SUPPLY, CUT, BEND, DELIVERY, AND INSTALLATION OR FIXING OF REINFORCING STEEL AND FABRIC REINFORCEMENT FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE - CIDB CONTRACTOR GRADING DESIGNATION OF CIDB 8CE OR HIGHER

C4: SITE INFORMATION

CONTENTS

C4.1: TENDER DRAWINGS

C4.1 TENDER DRAWINGS

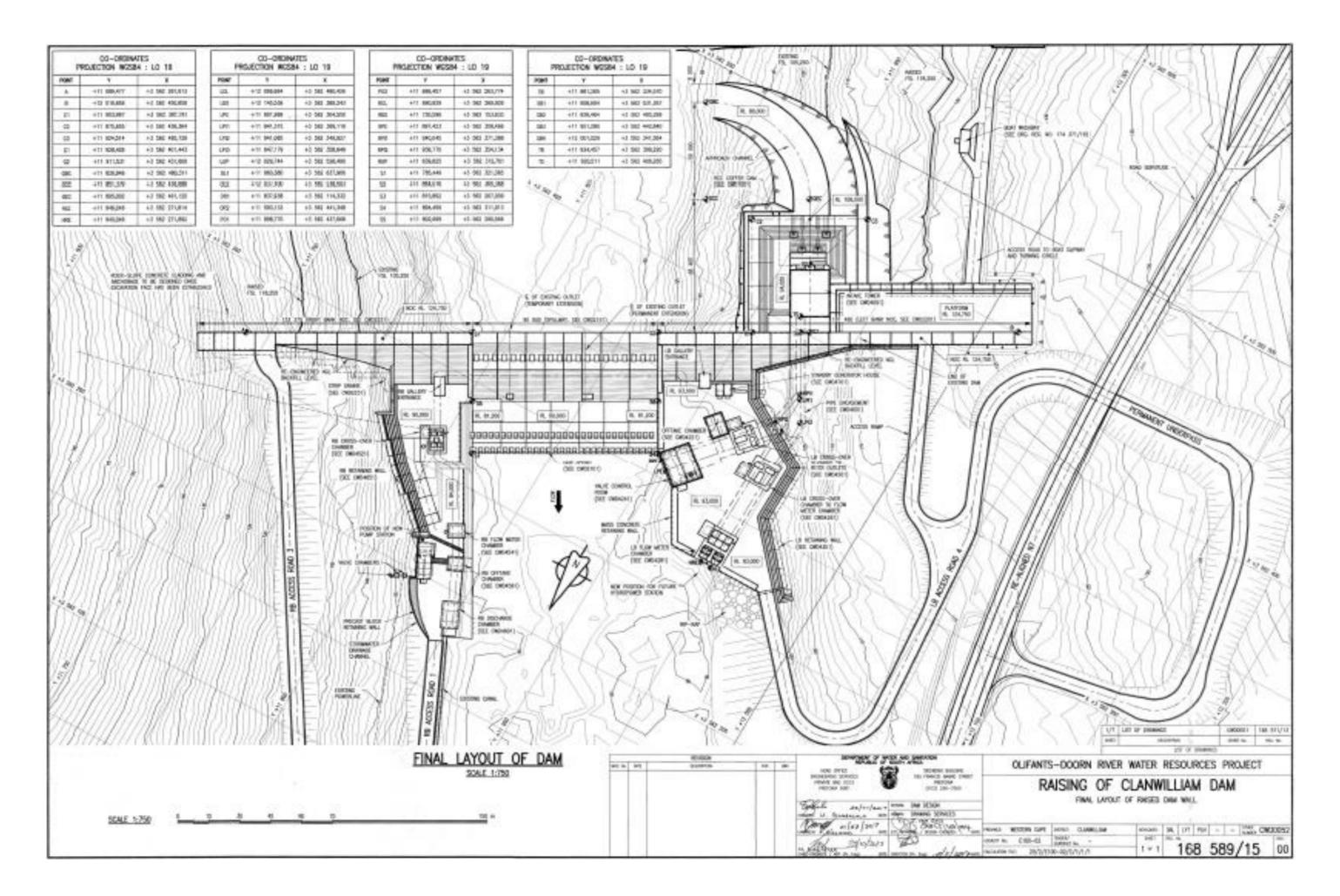
The tender drawings listed below are for <u>tender purposes only</u>. All work shall be done in accordance to the final approved construction drawings, that will be issued after signing of the contract.

The list of drawings annexure to this document is as follows:

Number	Drawing Title	CWD Reference number	Revision
4.1.1	Final Layout of Raised Dam Wall	CWD 0052	00
4.1.2	Left Bank Outlet Works - Pipe Encasement	CWD 5014	00
4.1.3	Right Bank Pipe Encasement A	CWD 5017	00
4.1.4	Right Bank Pipe Encasement B	CWD 5018	00
4.1.5	Right Bank Pipe Encasement C	CWD 5019	00
4.1.6	Right Bank Pipe Encasement D	CWD 5020	00
4.1.7	Right Bank Pipe Encasement E	CWD 5021	00
4.1.8	Tunnel Reinforcement	CWD 5026	00
4.1.9	Spillway Ogee Cap Bending Schedule	CWD 5031	00
4.1.10	Training Walls Bending Schedule	CWD 5038	00
4.1.11	Spillway Step Reinforcement	CWD 5042	00
4.1.12	Intake Tower Bending Schedule	CWD 5077	00
4.1.13	Intake Tower - Secondary Concrete Reinforcement	CWD 5092	00
4.1.14	Emergency Gate Control Room Bending Schedule	CWD 5115	00
4.1.15	Outlet Valve Control Room Roof Bending Schedule	CWD 5228	00
4.1.16	Left Bank Flow Meter Chamber Bending Schedule	CWD 5310	00
4.1.17	Left Bank Offtake Chamber Bending Schedule	CWD 5363	00
4.1.18	Left Bank Retaining Wall Bending Schedule	CWD 5409	00
4.1.19	Right Bank Flow Meter Chamber Bending Schedule	CWD 5529	00
4.1.20	Standby Generator House Bending Schedule	CWD 5654	00
4.1.21	Spillway Apron Bending Schedule 1 of 2	CWD 5720	00

4.1.22	Spillway Apron Bending Schedule 2 of 2	CWD 5720	00
4.1.23	Drainage Gallery Bending Schedule	CWD 5785	00
4.1.24	29-Cross Over Chamber to Flow Meter BS	CWD 5280	00
4.1.25	RCC Coffer Dam Drainage & Left Bank Cladding	CWD 1005	00
4.1.26	Intake Tower Section 04 - 04	CWD 4055	00
4.1.27	Left Bank NOC with Old Spillway Section 01 - 01	CWD 2203	00
4.1.28	Spillway Section 01 - 01	CWD 2152	00
4.1.29	Right Bank NOC Stepped Concrete Infill Details	CWD 2233	00
4.1.30	Right Bank NOC Stepped Concrete Infill Details	CWD 2236	00
4.1.31	Drainage Gallery Floor and Step Details	CWD 2314	00

Note: (Will be provided in electronic format.)

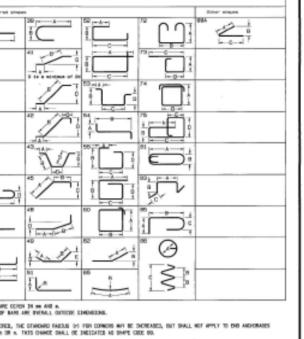


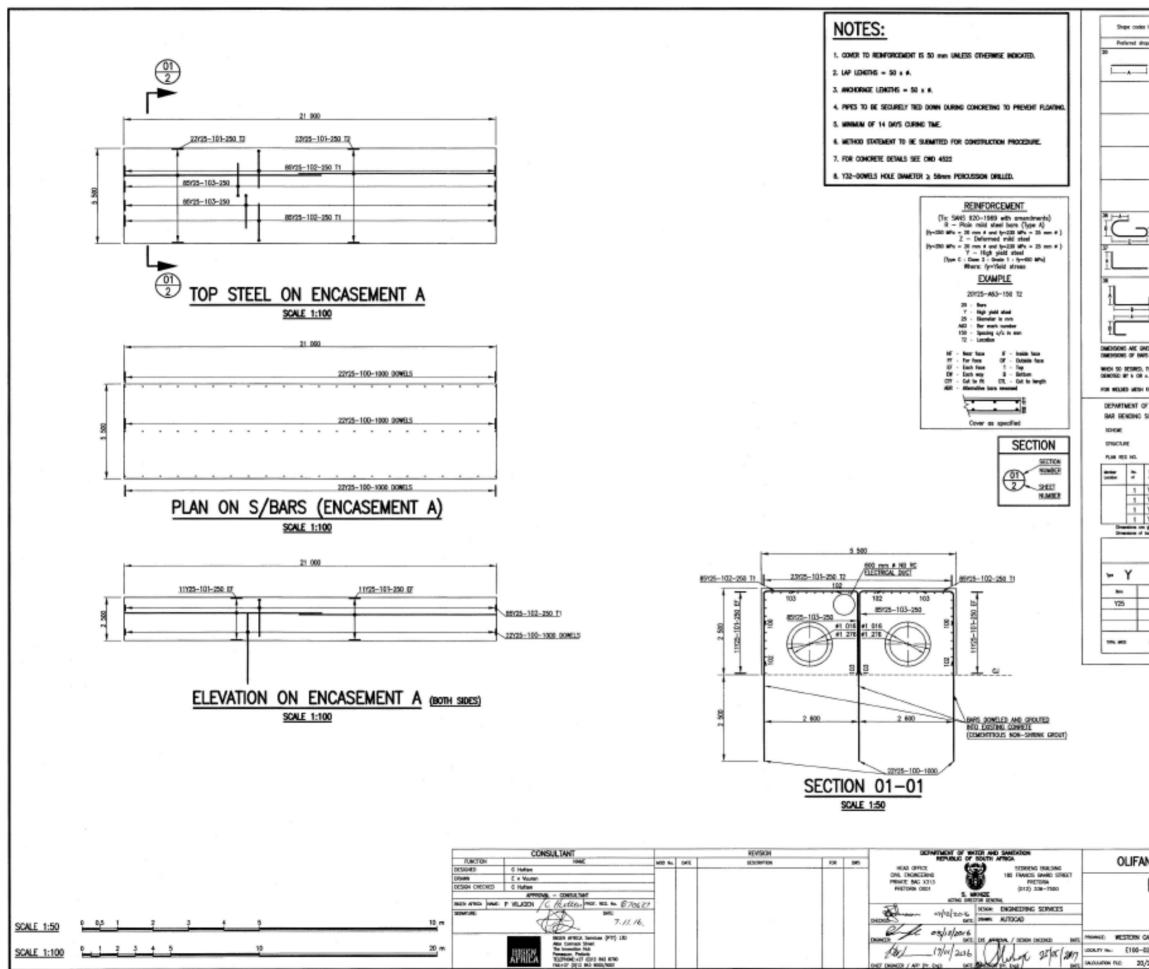
C4.1.1 (CWD 0052) Tender Drawings Page | 120

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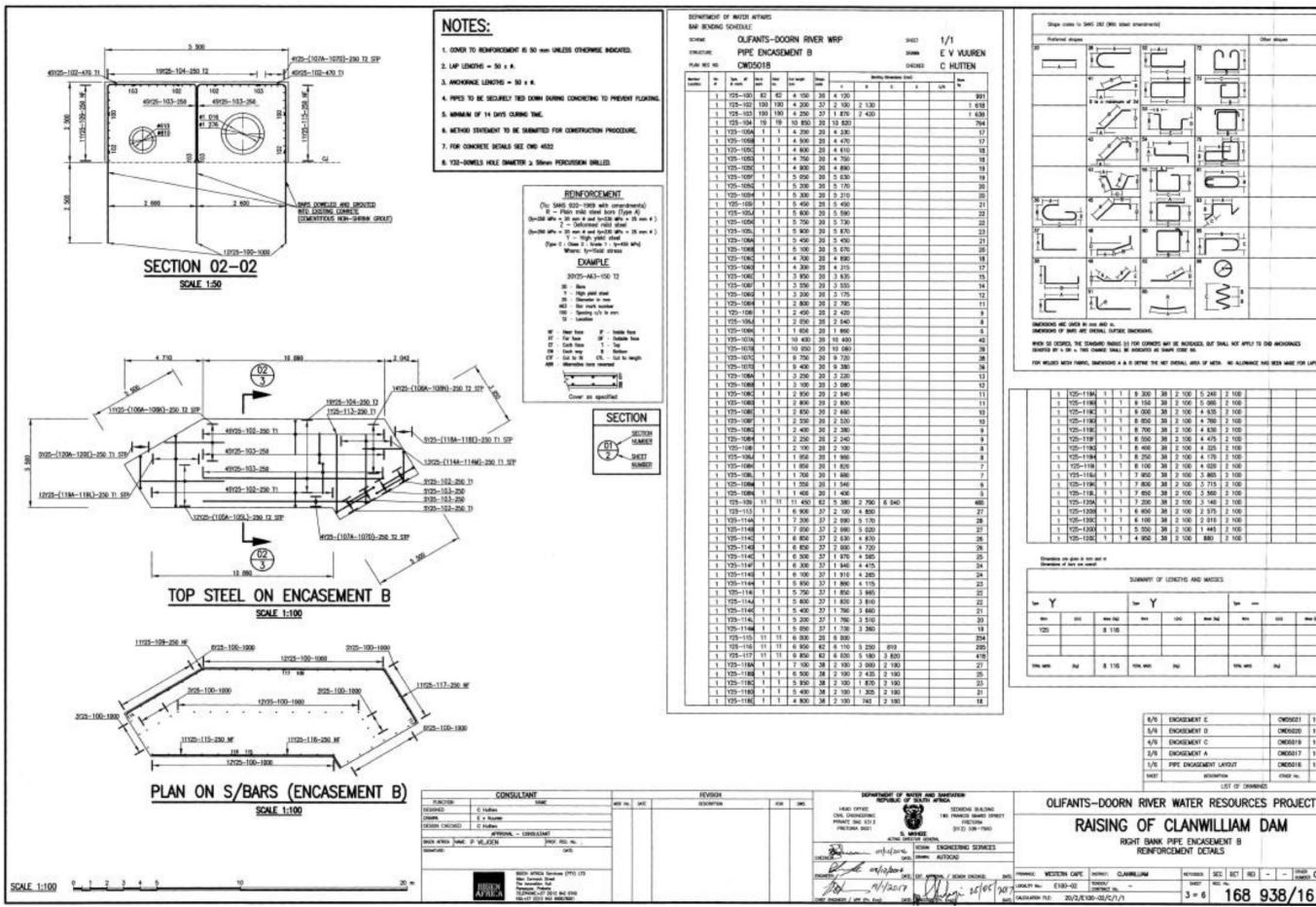






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Tender Drawings
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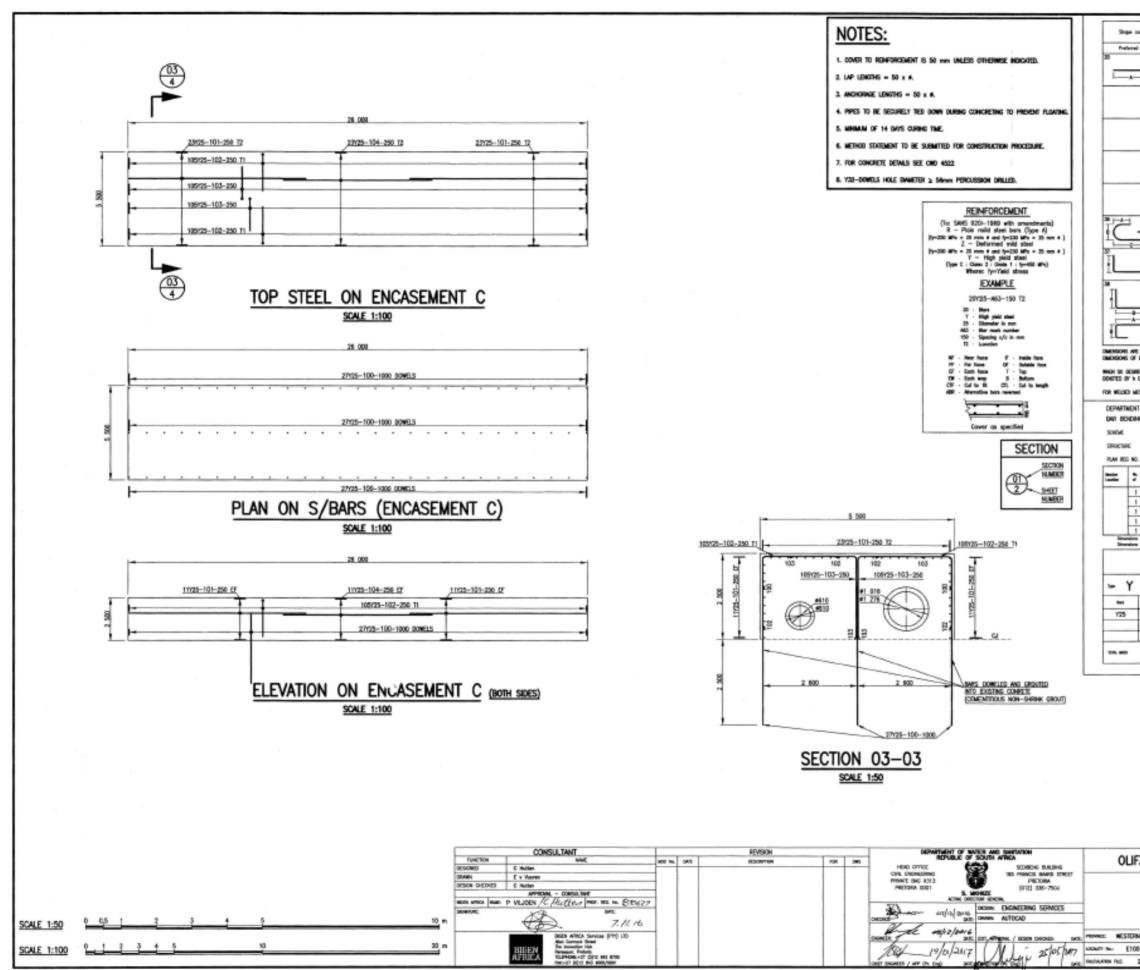
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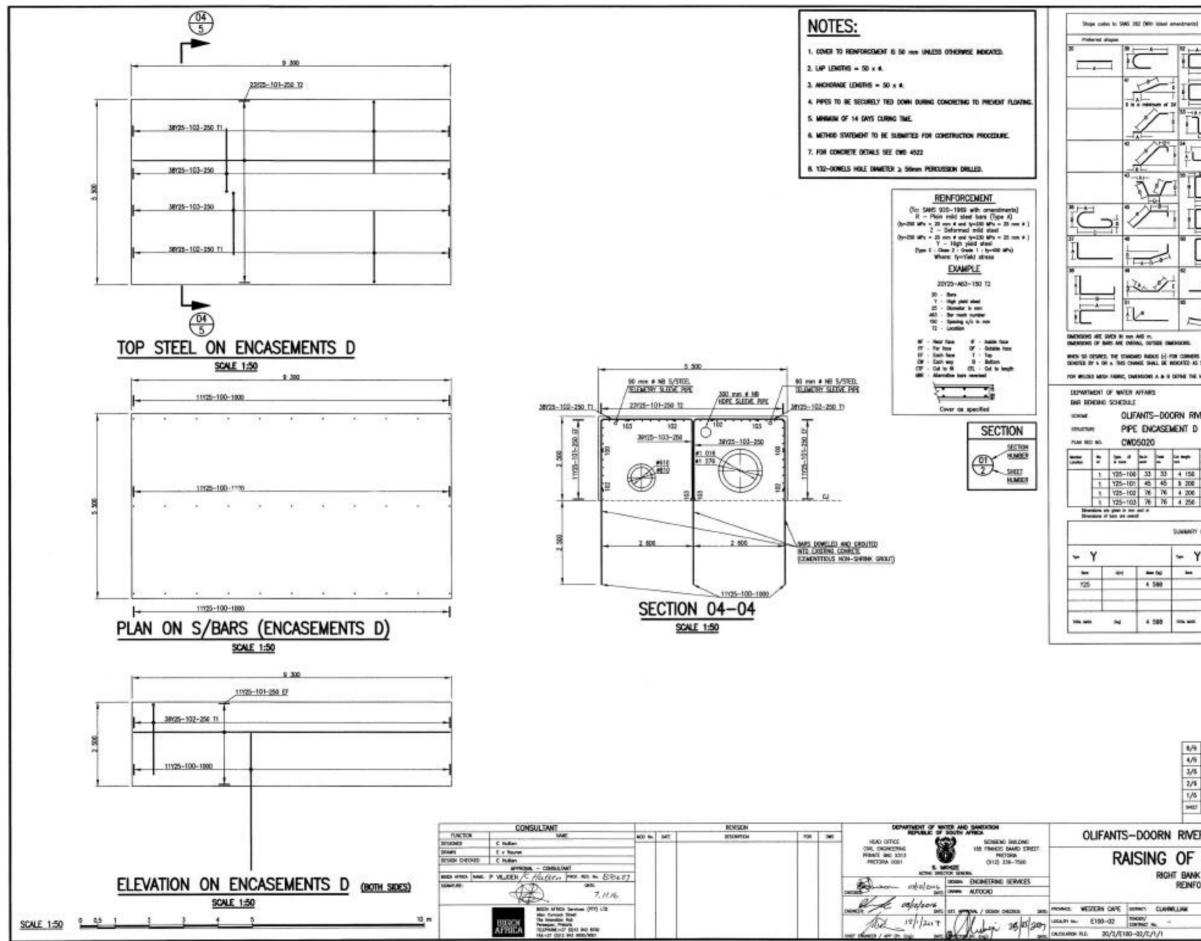
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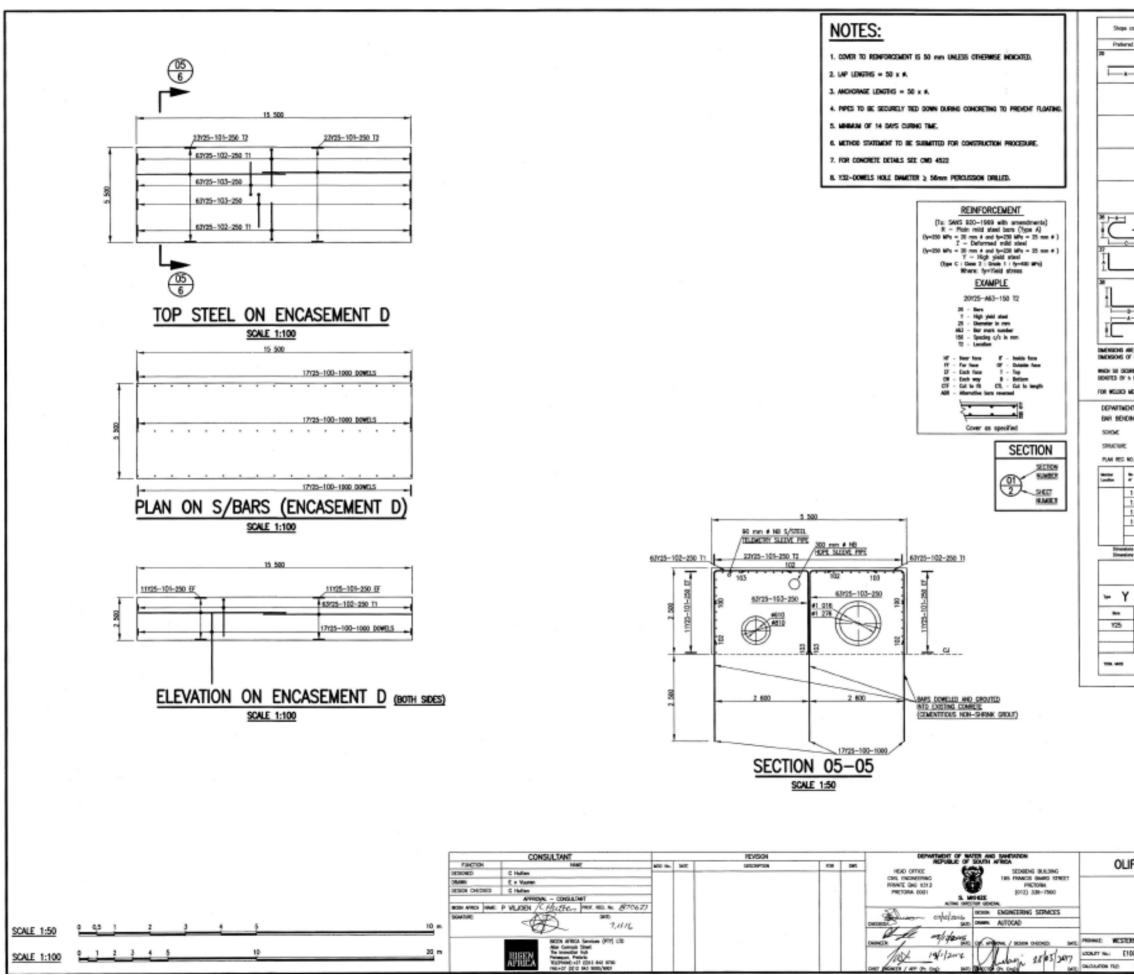
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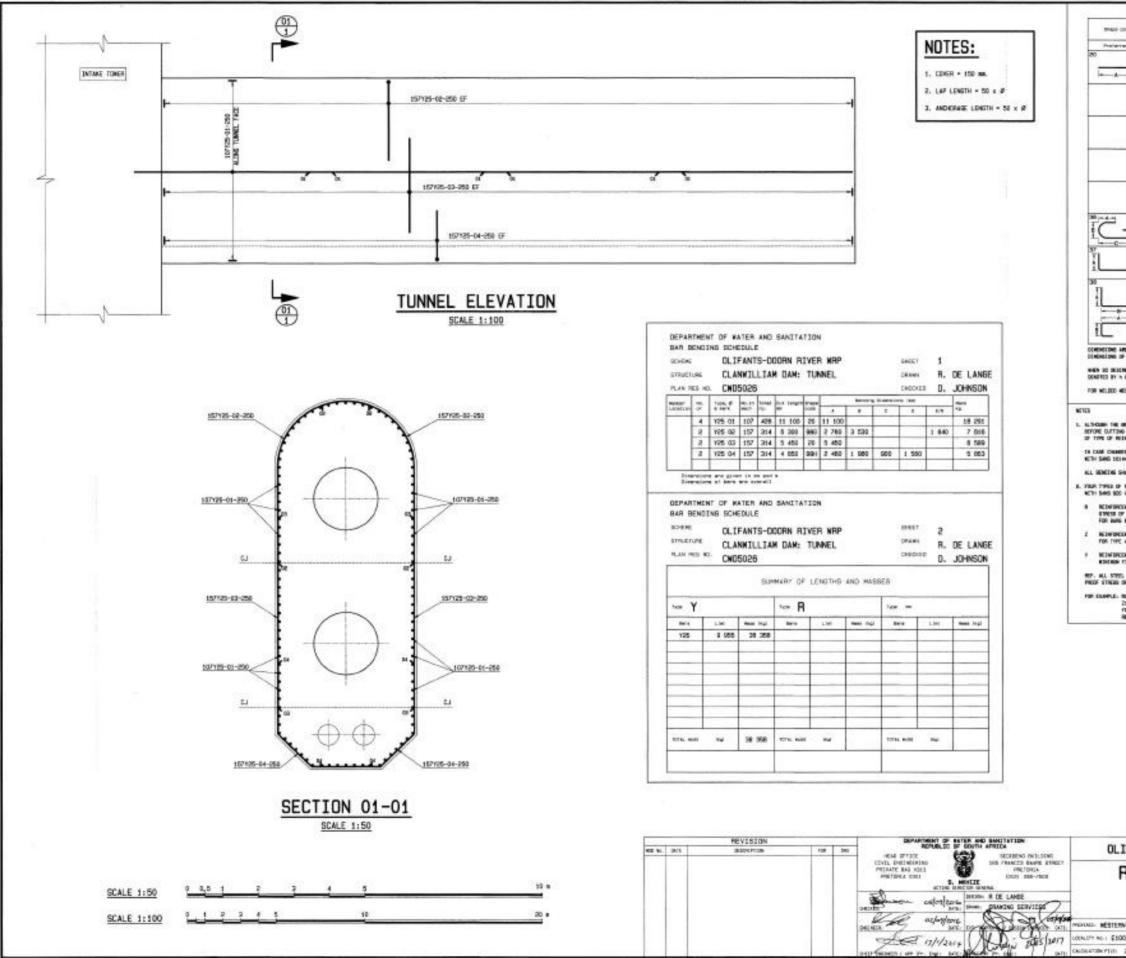
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Contract Part C4: Site Information

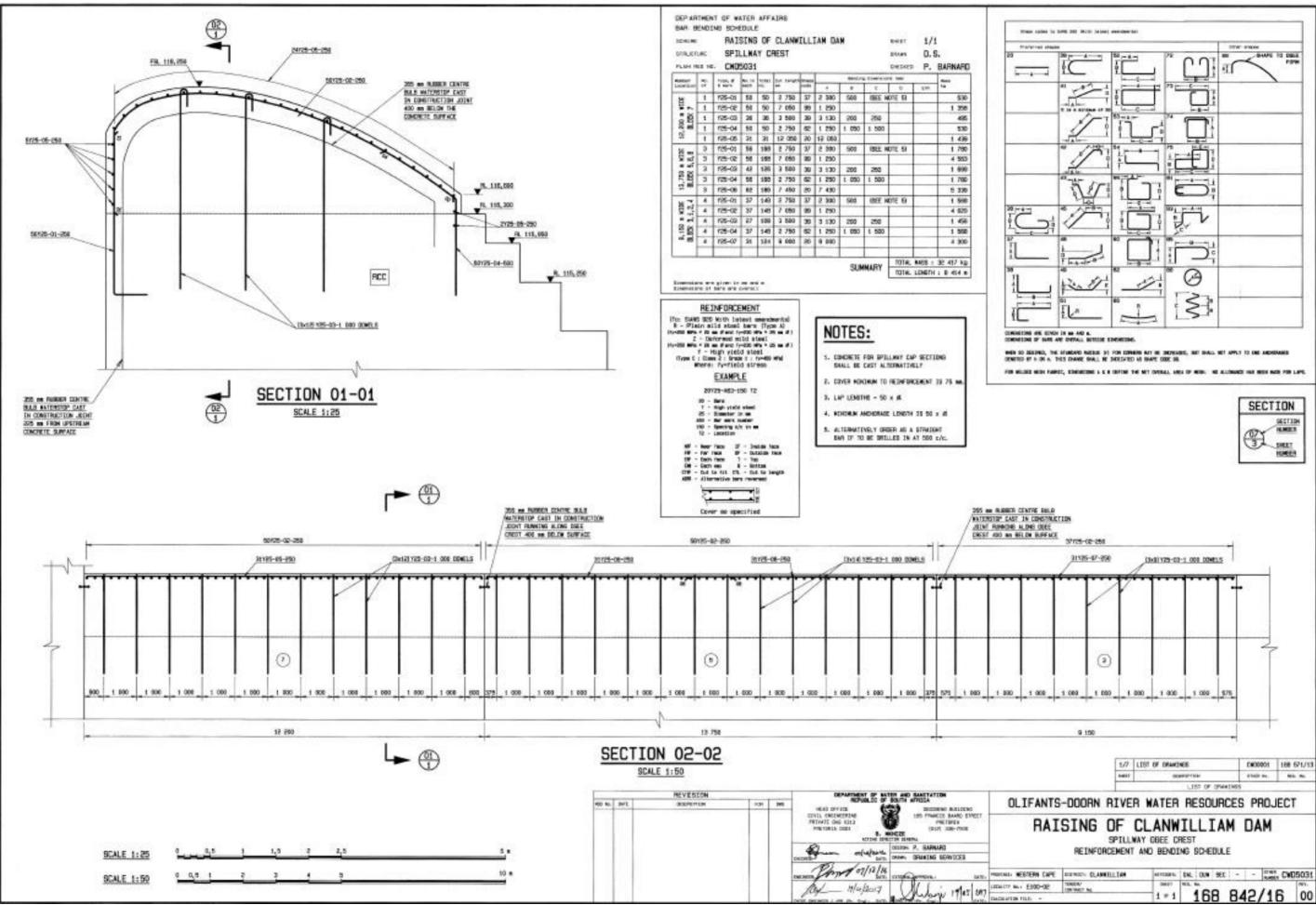
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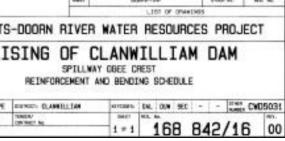


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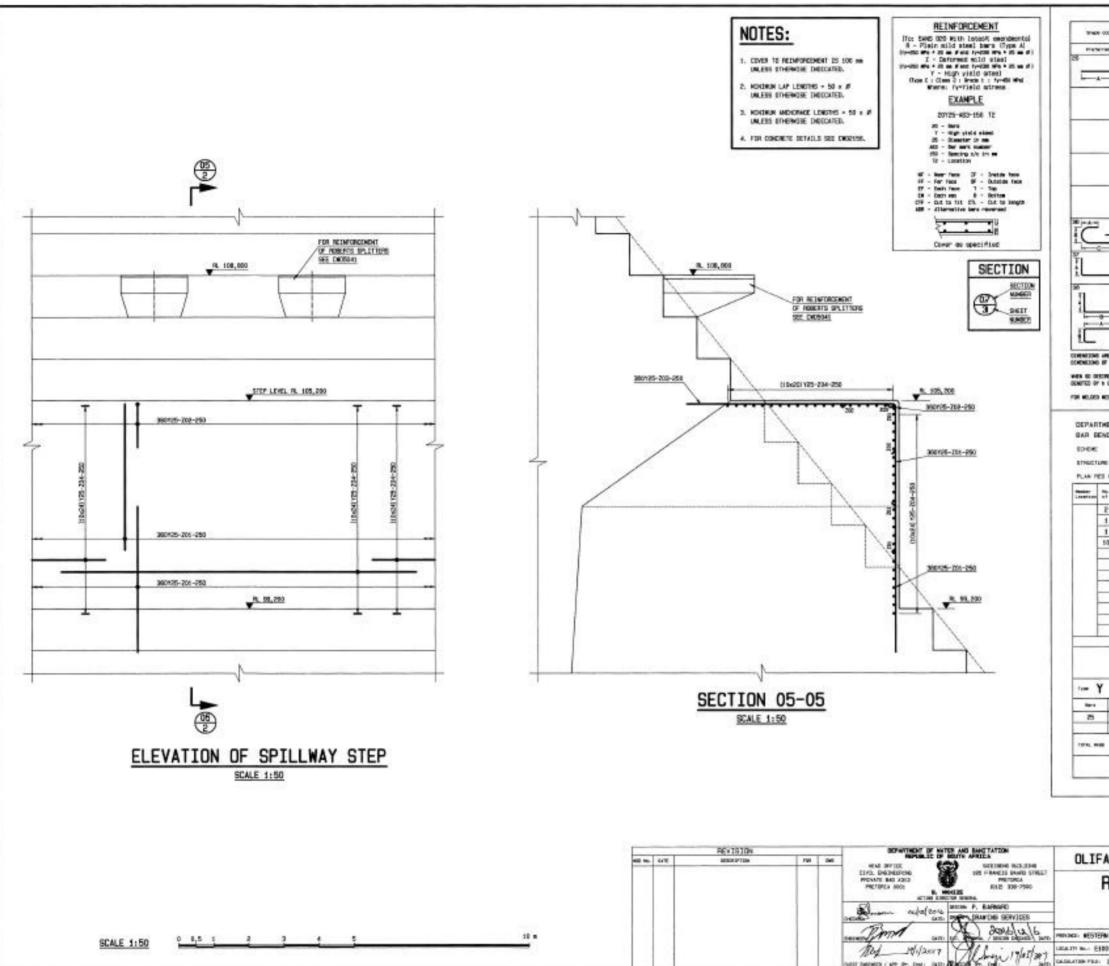


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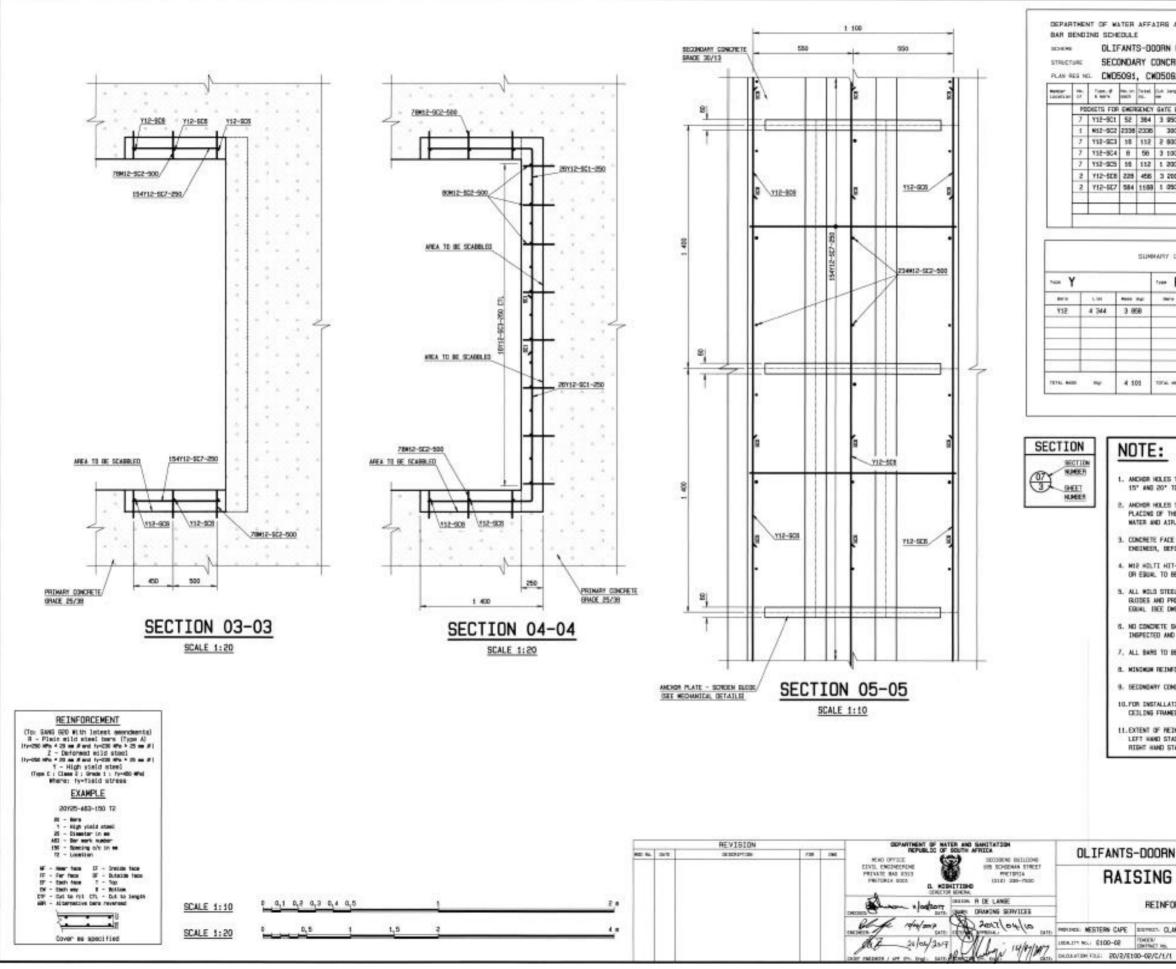
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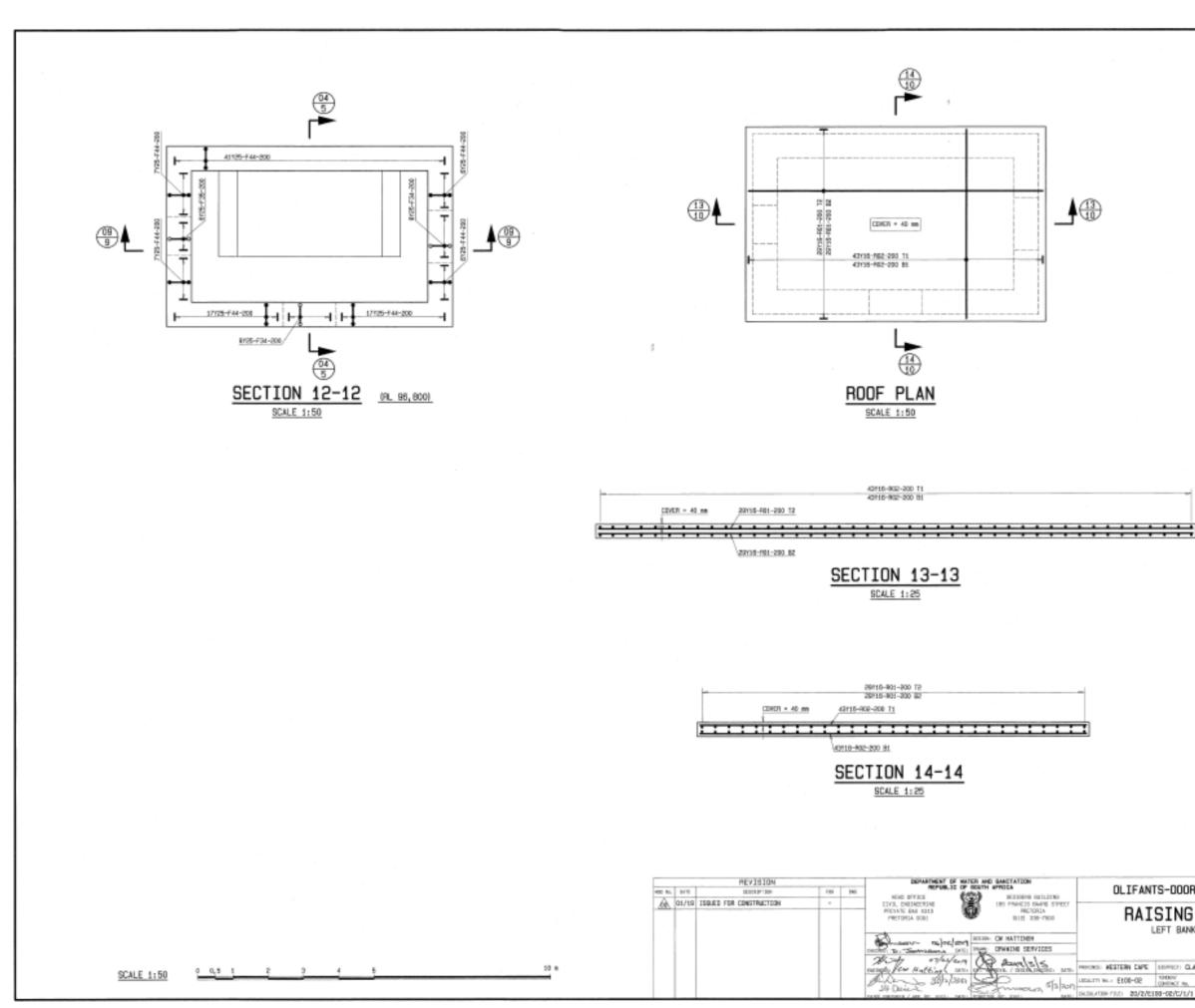
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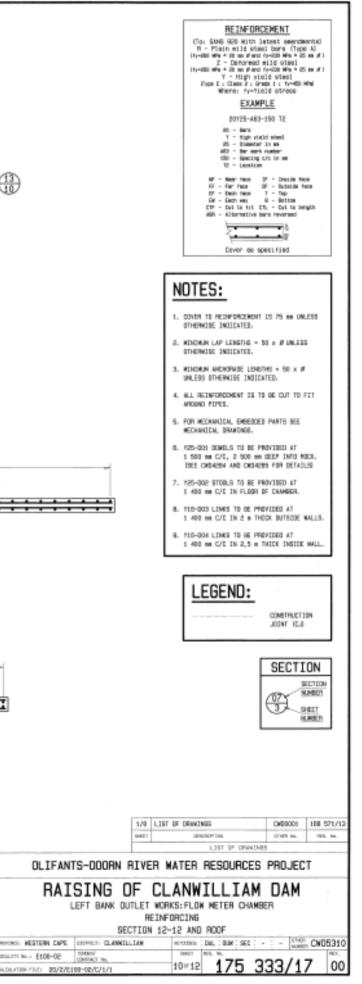
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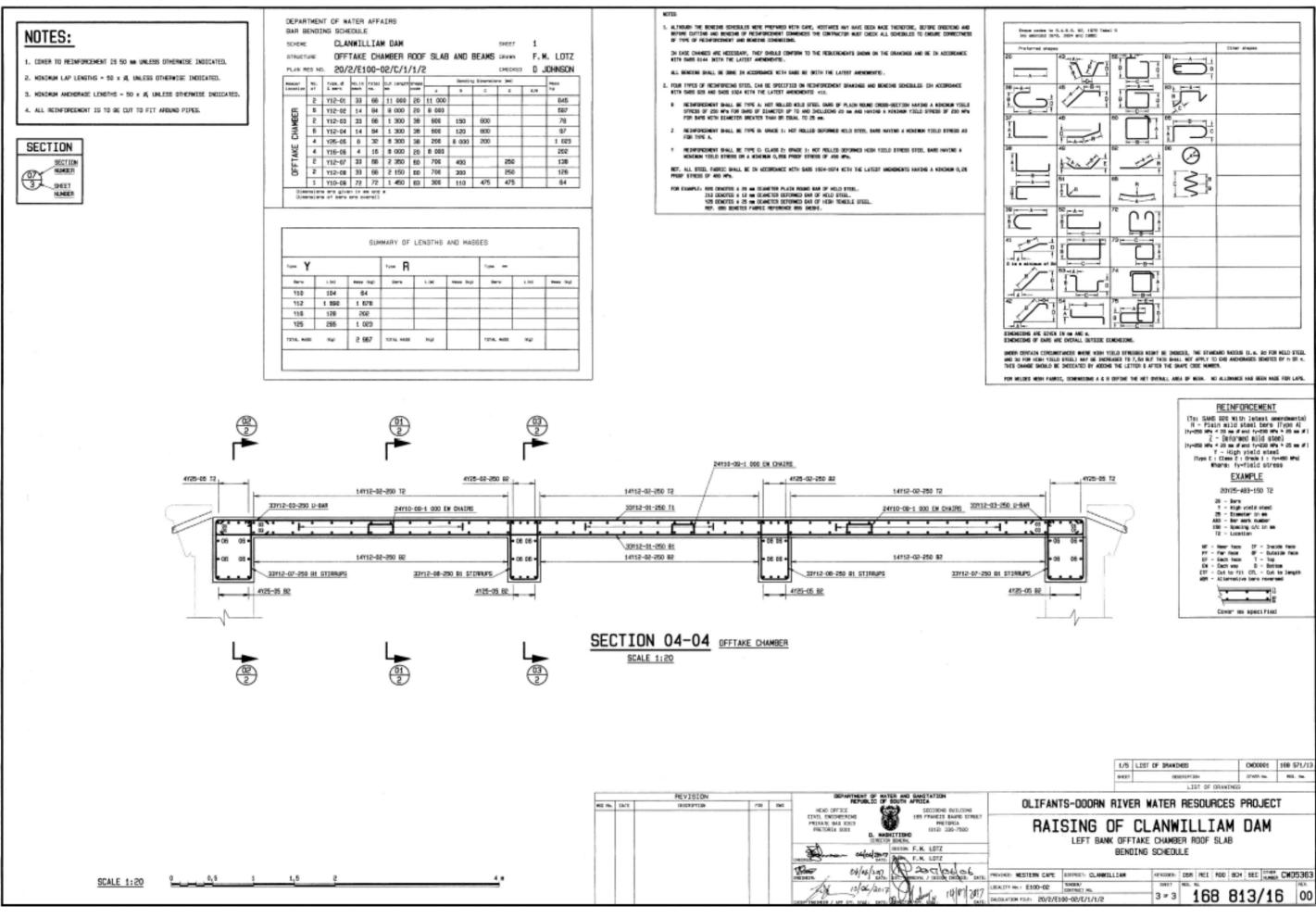
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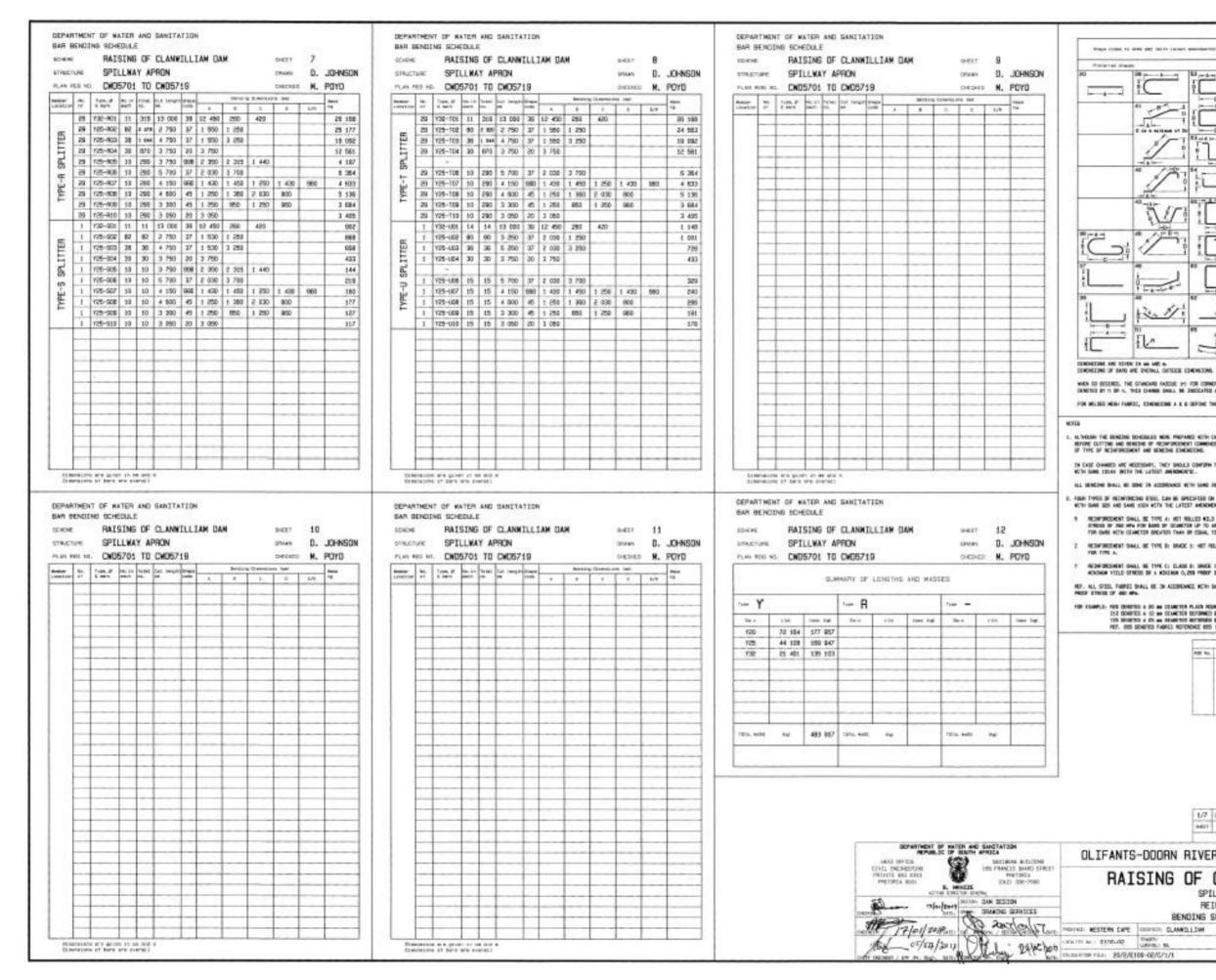
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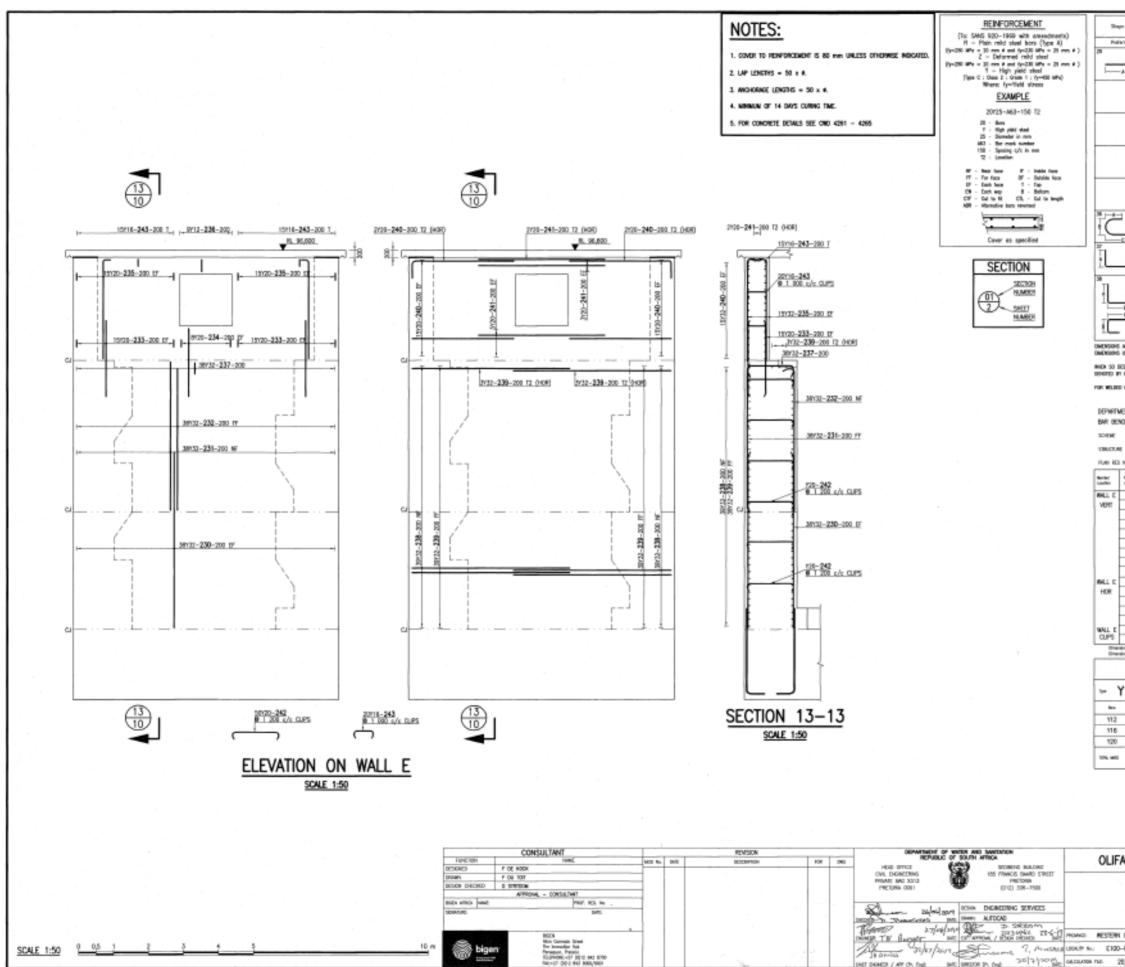
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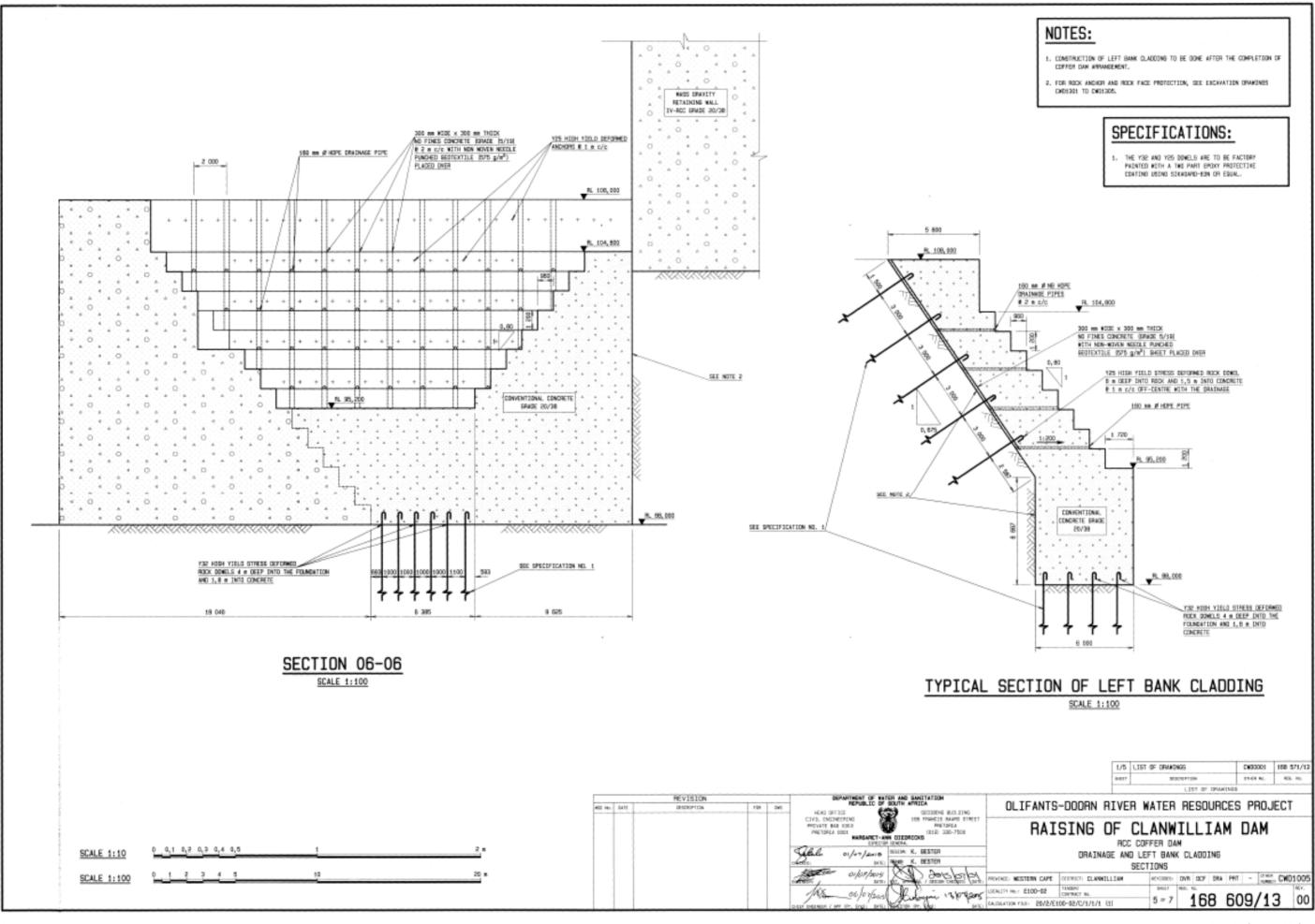
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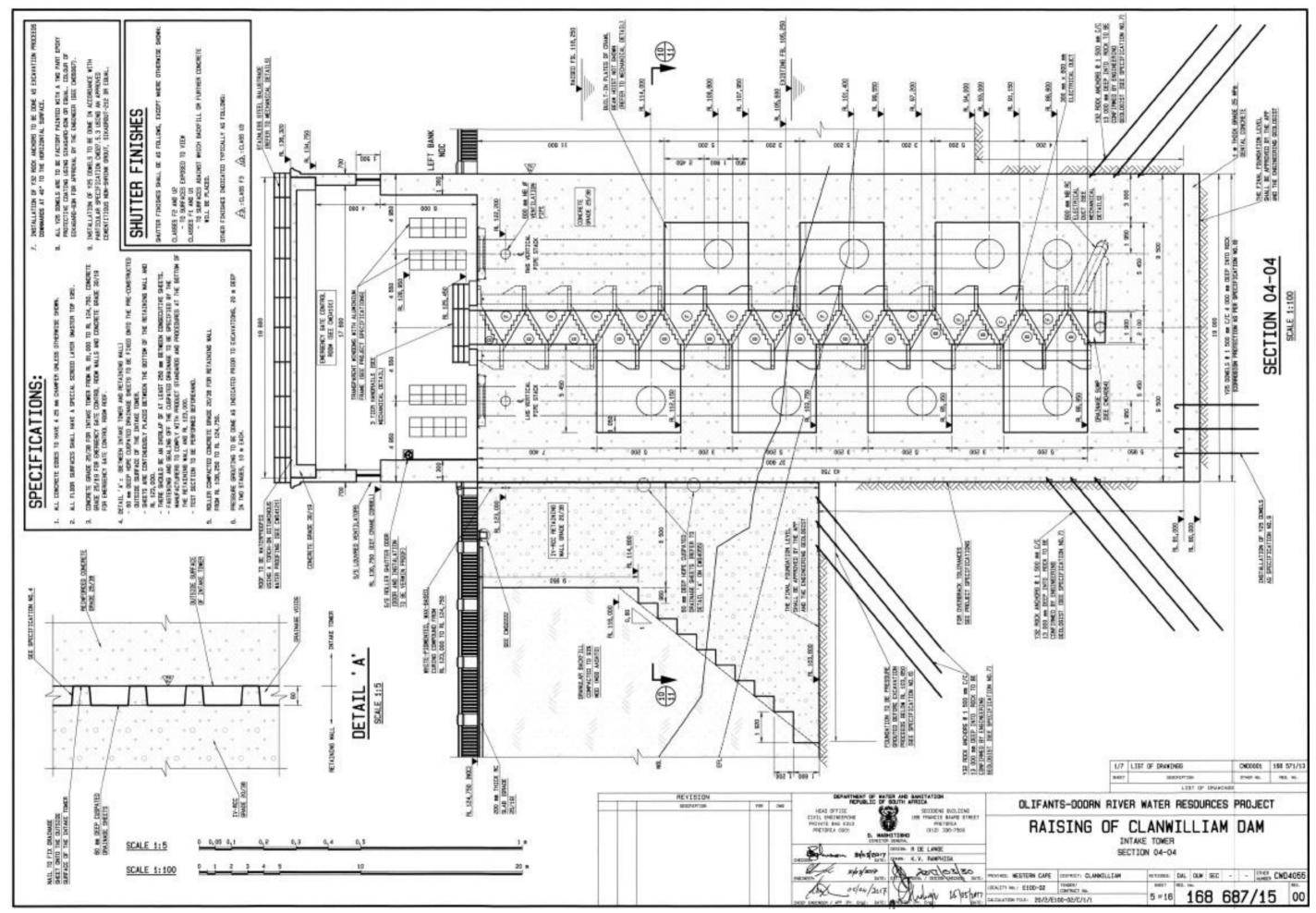


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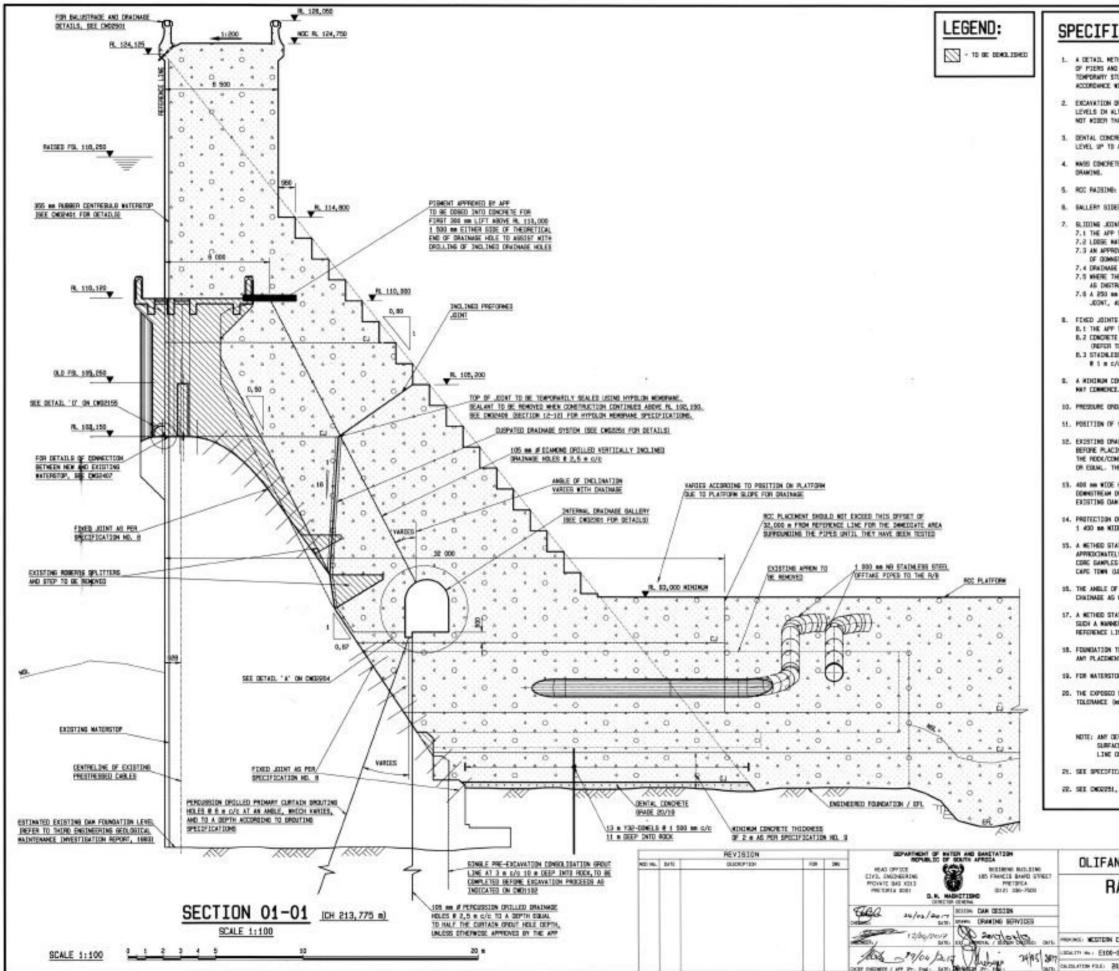
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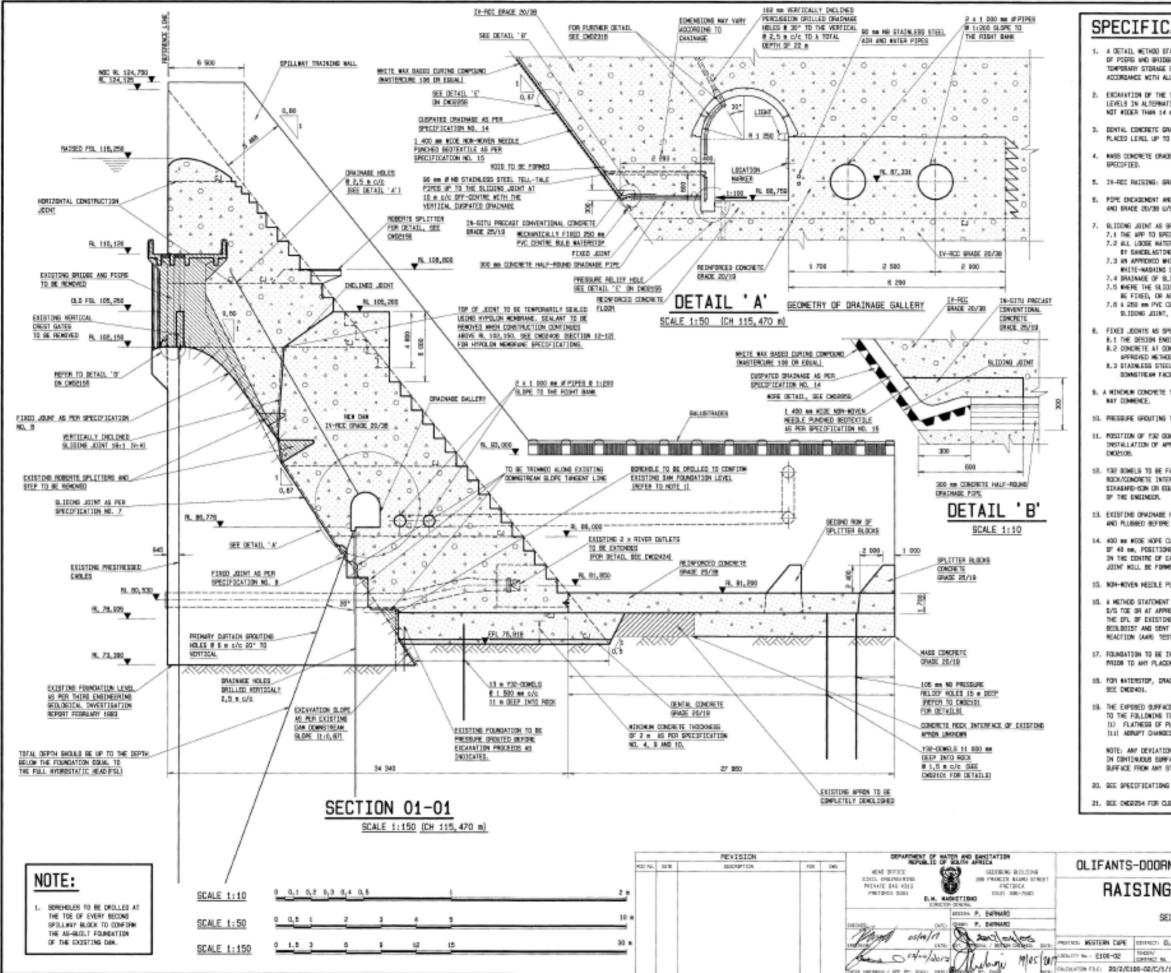
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Contract Part C4: Site Information

ICATIONS:
ETHED STATEMENT TO BE SUBMITTED FOR THE DENGLITION AND DISPOSAL NO BRIDDE DECK, BALLETMARES AND CANTILERUNG AS WELL AS THE STORAGE OF THE VERTICAL CREET GATES AND MEDIANICAL ESUCHMENT IN WITH ALLOWAGLE VERTICATION AND ENVIRONMENTAL REDUCTIONMENTS.
OF THE TOE OF THE SPOLLMAT TO BE DONE OUTDING LOW DAN WATER ALTERMATING BLOCKS ACCOMOING TO THE DISISTING CONSTRUCTION JEINTS THAN 34 # AND DNLY DHE BLOCK AT & TIME.
OPETE GRADE 20/16 ON TOP OF THE ESTIMATED FOUNDATION TO BE PLACED I A REDUCED LEVEL SPECIFIED BY THE DESIGN EMISSION.
ETE SFADE 25/39 WETH & MINIMUM THOOMESS NOT LESS THAN 2 IN AS SPECIFIED ON
B: TV-HCC DRAGE 20/38 CONCRETE, OF NOT SPECIFIED OTHERADSE.
DEBI PEDIFORCED CONCRETE ORADE 20/36.
INTO AS SPECIFIED ON DEARING. P TO SPECIFY LEVELS OF JOINTS ON BITE. MUTERIAL ON DOMESTICAN FACE TO BE REMORED BY SAMORASTING ON SINULAR WETHOD. REVED WHITE PIGMENTED MAX BASED CURING COMPOUND TO BE USED FOR WHITE-MARKING MUTERAM FACE FOLLINING REMONAL OF SUPPORT LATER. BE OF SLIDING JOINT DE SPECIFIED DU DETAIL 'N DE COMPONAL. THE SLIDING JOINT IS LESS THAN 2 & IN HEIGHT, THE JOINT IS TO BE FIXED, OR TRUCTED BY THE ALP. BY CONTRE SLAR MATERITOP SHOLD BE MECHANICALLY FIRED BENEATH SLIDING AS SHOWN IN DETAIL 'N' ON ENCERD.
TE AS SPECIFIED DN DRAWDAG: P TO SPECIFIENCES OF JOINTE ON SITE. TE AT DONASTREAM FACE TO BE REMONED BY JET BLASTING OR SIMILAR METHOD TO SPECIFICATION NO. 23 DN OWDERDD). TO SPECIFICATION NO. 23 DN OWDERDD). TES STELD, DOWELS 5,2 B LONG TO BE ANCHORED 500 NB USEP DNTD ODMOSTREAM FACE 5/C.
CONSTRUCT THID DESS OF 2 * 15 REGULARED, FOR MEN DAN FOOTPHIST, DEFENSE BROWTING
NUITING TO BE DONE AS INDICATED AND SPECIFIED ON BROUTING DEWEINGS.
F 132 DOWELS AS PEA THE BROUTDAG HOLE LAYOUT ACADITION
NUMBRE HOLES IN DOMNTHEAN TOD: HOLES TO BE REDROLLED, CLÉANED AND CLOSED OF CING OF CONCRETE. TOD DOWLS TO BE FACTORY PAINTED 1 000 mm DN EACH SIDE OF DOMNTHE DITEMACE WITH A TWO PART EPOXY PROTECTIVE CONTING LISTING SUBME SOCKARD-SON THE COLDURY OF SIXABAND-SON CONTING TO SPECIFICATION OF THE ENGINEER.
E HOPE CUSPATED GEOSTIMINETIC DAAIN WITH A MINDAUM THICKNESS OF 40 mm, POSITIONED OF ALL EXISTING INDUCED JOINTS AS WELL AS IN THE GENTRE OF EACH RUCK OF THE AN WALL ONLY WHERE A SUBJOID JOINT WILL BE FORMED.
OF CLEPATED BAJINGE: NON-MENON NEEDLE PLACHED GESTEXTELE 575 g/w ⁰ or equal; Ide. See Caudersi for Details.
TATEMENT IS REQUIRED FOR BORENCLES TO BE ORTLLED EITHER AT THE D/S TOE OR AT ELV 1 000 am D/S DF NOC & DF EACH BLOCK TO CONFIRM THE EFL OF EXISTING DAM. ES TO BE DESCRIDED BY AN EMEDIMERING GEOLOGIST AND SENT TO THE UNIVERSITY OF ULCT) FOR ALKALI ASSREGATE RENCTION (AAR) TESTING.
OF DELIGRATION TO WHICH THE VEHITLER, DERIGNANE HOLES ARE ORILLED WILL WARE NOTH S WELL AS THE ANGLE AT WHICH THE HOLE IS OFFICIAN THROUGH THE TOP OF THE GALLERY.
TATEMENT IS REALINED FOR ALL WENTICHLY DALINED DRADAGE HOLDS TO BE DRALLED IN HER THAT THE END FEDRT IS AT R. 130,120 WEI DEFELT & COOL MR FROM THE LEFETHEAM LINE.
TO BE INSPECTED AND APPRIVED BY THE ENEDWORKING BEDLOEDST AND THE APP PRIOR TO ENT OF CONCRETE.
TOP, CINEX INDUCED AND ENTITIONS SPECIFICATIONS AND LAYOUT DETAILS, SEE ENGINES.
D SURFACE OF THE DOWNSTREAM STOPS OF THE NOC SHALL BE FINDERED TO THE FOLLOWING (MM):
(3) FLATMERS OF FLAME SUFFACE 15 (33) ADRUPT DERMES IN CONTINUOUS SUFFACE 2
DEVIATION FROM FLATNESS OF A PLANE SUFFACE OF MAY ABRUT CHANNE IN DONTINUOUS NEE WILL BE MEASURED AS THE MARDAUM DEVIATION OF THE SUFFACE FROM ANY STRAIGHT OF LINETH 3 & JOINDAD THE POINTS ON THE SUFFACE.
TEATION NO. 5 ON ENGREDO, FOR REGREDERS SHUTTER FINISHES.
1, FOR CLISPATED OFWORKER DETAILS AND LAYOUT.
1/7 L151 OF DRAKINGS CHERODI 158 5/1/13
LIGT OF ONLY OF A ALL NO.
NTS-DOORN RIVER WATER RESOURCES PROJECT
RAISING OF CLANWILLIAM DAM
CAPE NEWWORK DLANGELLIAN NEWWORK 257 DAL SET DET - WHEN CHEEZOD
20/2/5100-02///// 3 = 9 168 755/16 00

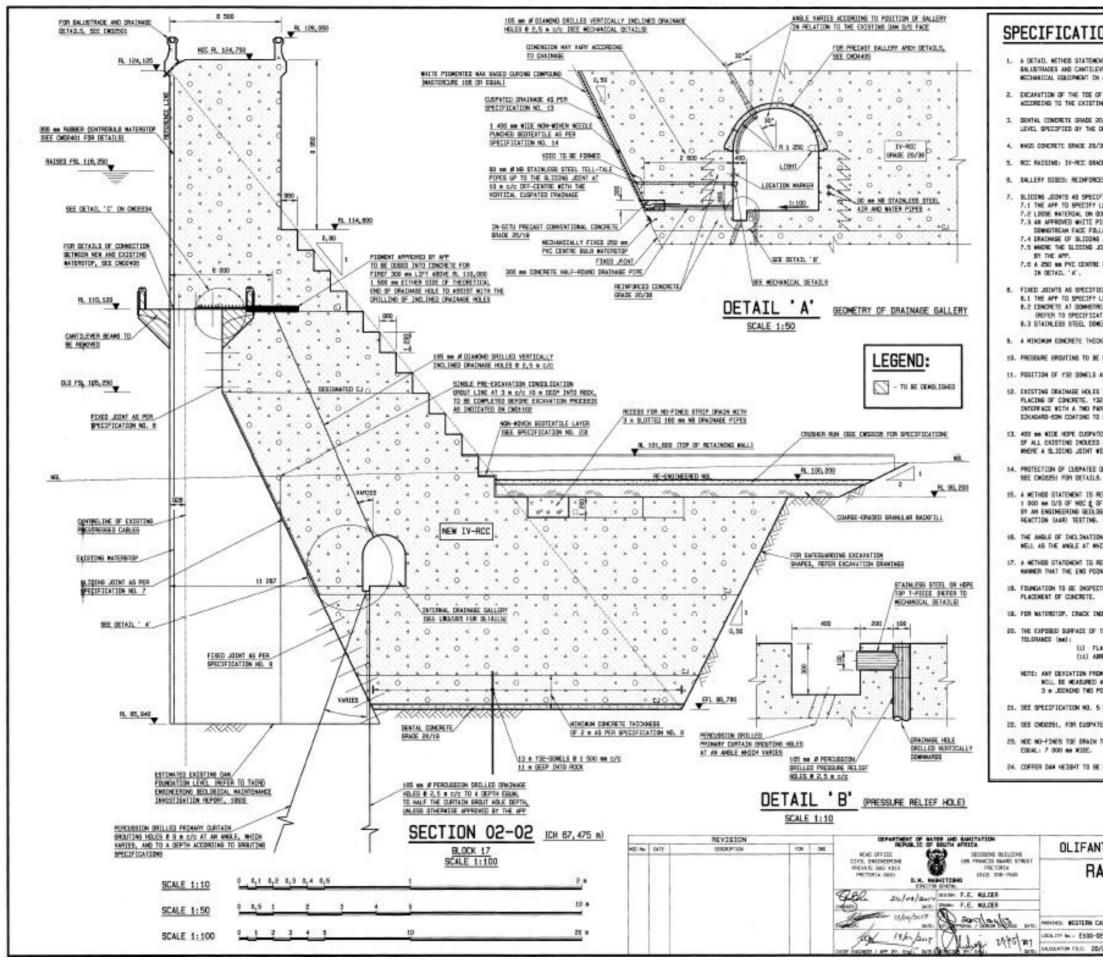
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SPECIFICATIONS:

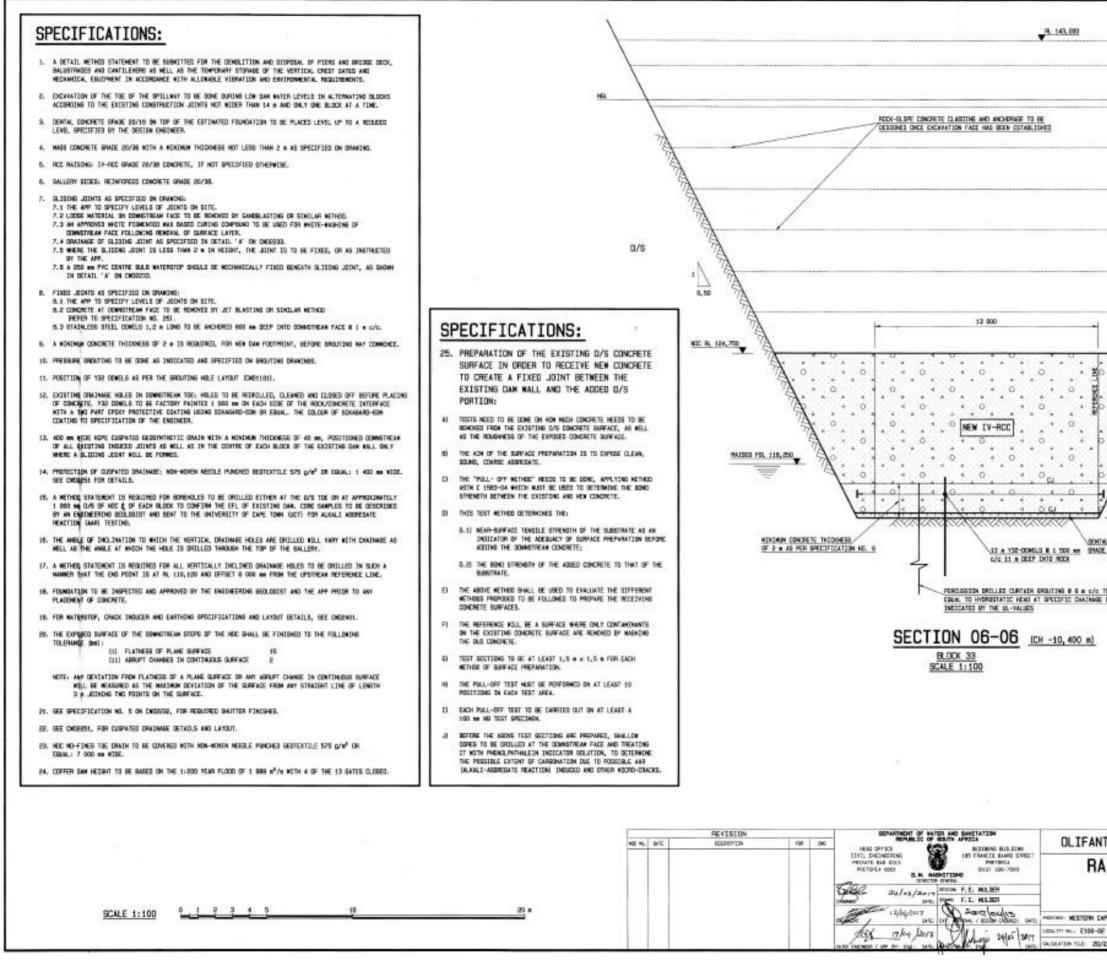
1. A DETAIL WETHOD STATEMENT TO BE BASNETTED FOR THE DEMOLITION AND DISPOSAL OF PODE AND BRIDGE DECK, GALLSTRADES AND CLATTLEVERS AS WELL AS THE TOPPDARY STRANGE OF THE VERTICAL CREST GATES AND REDANDOLAL EDUTYMENT IN ACCORDANCE NOTH ALLOWABLE VIERATION AND DWORDMONTHL REQUIREMENTS. [DVF] 2. ERCAINTIDE OF THE TOE OF THE SPOLLWAF TO DE DONE DURING LOW DAM WATCH LEVELS IN ALTERNATING BLOCKS ACCORDING TO THE EXISTING CONSTRUCTION JOINTS NOT MIDER THAN 14 α and only one glock at a fine. 3. DENTAL EDNORFE E GRADE 20/10 IN 102 OF THE REFINATED FOLMOATION TO BE PLACED LEVEL UP TO A REDUCED LEVEL SPECIFIED BY THE ENGINEER. 4. NASS CONDICTE CRACE 20/38 NITH A MINDAUM THODORESS NOT LESS THAN 2 # AS 5. IN-REC RUISING: GAME PO/30 COMERCIE IF NOT SPECIFICS OTHERWISE. 5. FOR INCREMENT AND D/S GALLONY SIDE TO BE REINFORCED CONCRETE GRADE 20/10 AND BRADE 20/38 U/S OF BALLERY AS SPECIFICE IN DETAIL ' # BLIDDNG JOINT AS SPECIFIED DN OFAMING: 7.1 THE MPP TO SPECIFY LEVELS OF JOINT IN SUFE. 7.2 ALL LODGE MATERIAL AND AND PRODUCTS AT THE DOWNSTREAM FACE TO BE REMOVED BY SANCELASTONS OF SOMILAR METHOD. 7.3 IN APPECIED WITT-PEDMENTED WAX-GASED CURING CONFILME TO BE USED FOR WITE-WASHING OF DOWNSTREAM FACE FOLLOWING REMOVAL OF SOMFACE LAYER. 7.4 DRAINAGE OF BLIDDNE JOINT AS SPECIFIED IN DETAIL "A" ON CHORISE. 7.5 WHERE THE SLIDING JONT IS LESS THAN 2 & IM HEIGHT, THE JOINT IS TO BE FIRED, OR AS DISTRICTED BY THE APP. 7.5 # 250 mm PVE CENTRE BULE WATERSTOP EXCLUDING MEDIANOCALLY FILSED REMEATH SLIDING JOINT, SEE DETAIL 'A' DV ENDRISP. FIXED JOINTS AS SPECIFIED ON OPAKING: 8.1 THE DESIDE ENGINEER OF APP 10 SPECIFY LEVELS OF JOINT ON SITE.
8.2 DINCRETE AT DOMNSTREAM FACE TO BE REMOVED BY HYDRO-JET BLASTING OF SIXULAR UPPRIVED METHOD (REFER TO SPECIFICATION NO. 3 DN CNURTER). 8.3 STADRESS STEEL Y22-DOMELS 5,2 * LONG TO BE ANDROPED DOD NO DEEP 1810 CONSTREME FACE # 1 # c/c. 9. A MINIMUM COMPRETE TRICKNESS OF 2 # 15 REQUIRED BEFORE EDVERLIDATION OPDITING BAY DOMENCE 50. PRESSURE GROUFING TO BE DONE AS INDICATED AND SPECIFIED ON GROUFING ORANINGS. ST. RESITION OF YER DONELS TO BE LODGED FOR THE PLEPOSE OF GROLFING AND INSTALLATION OF APPEN DEWELS AND PRESSURE RELIEF HELES, SEE CHERISON AND DWORTOR. 12. 132 BOMELS 10 BE FACTORY PAINTED 1 000 MM DN EACH SIDE OF THE ROCK/COMDRETE INTERFACE WITH A TWO PART EPOXY PROTECTIVE CONTING USING SEXABARD-SEN OR REAM. THE COLOUR OF SEXABARD-SEN CONTING TO SPECIFICATION OF THE ENGINEER 53. EXISTING OPADAGE HOLES IN DOWNSTREAM TOE: HOLES TO BE REDADLED, DLEANED IND PLUBBED BEFORE PLACING OF CONCRETE HOME THAT LEVEL MAY COMMENDE. 54. 400 ME NOVE HOPE CLIEPATED GEOSYNTHETIC (PAIN WITH & MINDRUM THIDDONESS) DF 48 mm, POSITIONED COMMETTERAN OF ALL EXISTING CONTRACTION LODITS AS WELL AS IN THE DENTRE OF EACH BLOCK OF THE EXISTING DAM WALL DNLY WHERE A SLIDING JOINT HOLL BE FORMED (REFER TO DROZZEN). 15. NON-MOVEN NEEDLE PUNCHED GEDTEXTELE 575 G/M² CR EDUAL: 1 400 NN KIDE. 10. A METHOD STATEMENT IS REQUIRED FOR REPEAULER TO BE ORTLIED STITLED AT THE E/S TOE OR AT APPROXIMATELY 1 ODD IN D/S OF NOC & OF EACH BLOCK TO CONFIRM THE OF L OF EXISTING DAM, CORE SAMPLES TO BE DESDILING OF AN ENGINEERING. BEOLOGIST AND SENT TO THE UNIVERSITY OF CAPE TEMN (UCT) FOR ALKALI ADDREGATE REACTION (AAR) TESTING. FOLMANTION TO BE INSPECTED AND APPRIVED BY THE DISINGERING BEOLDGIST AND APP PRIDE TO ANY PLACEMENT OF CONCRETE. 13. FOR WATERSTOP, DRACK INDUCER AND EARTHOND SPECIFICATIONS AND LAPOUT DETAILS SEE CHER401 19. THE EXPOSED SUPFACE OF THE DOWNETFIEW STEPS OF THE NOC SHALL BE FINESHED TO THE FOLLOWING TOLEPANCE INN) : 11) FLATHERS OF PLANE RAFFACE ADRUPT DAANGES IN DONTONIOUS SUPERICE NOTE: ANY DEVIATION FROM FLATNESS OF A PLANE SURFACE OF ANY ABRUPT CHANCE. IN CONTINUOUS SUMFACE MULL BE NEASURED AS THE NAKINUM DEVIATION OF THE SUFFACE FROM ANT STRAIGHT LINE OF LENGTH 3 & JODKING TWO PODVIDS ON THE SUMFACE. 20. SEE SPECIFICATIONS IN CHORESSE FOR REQUIRED SHUTTER FINISHES. 21. SEE CHER254 FOR CLERATED DRAINAGE DETAILS AND LAYOUT. CM00001 168 571/13 1/7 LIST OF GRANDING 30907071208 OTHER MA. MR. No. LIST OF DRAWINGS OLIFANTS-DOORN RIVER WATER RESOURCES PROJECT RAISING OF CLANWILLIAM DAM SPILLNAY SECTION 01-01 AT CH 115,470 m ATTENT OFT SEC CON 04. - THE CND2152 NOT DIANNTILLEAN B-011 /41. 5 2~6 168 709/15 00 NUMPER PAGE 20/2/2100-02/C/3/ C4.1.24 (CWD2152)

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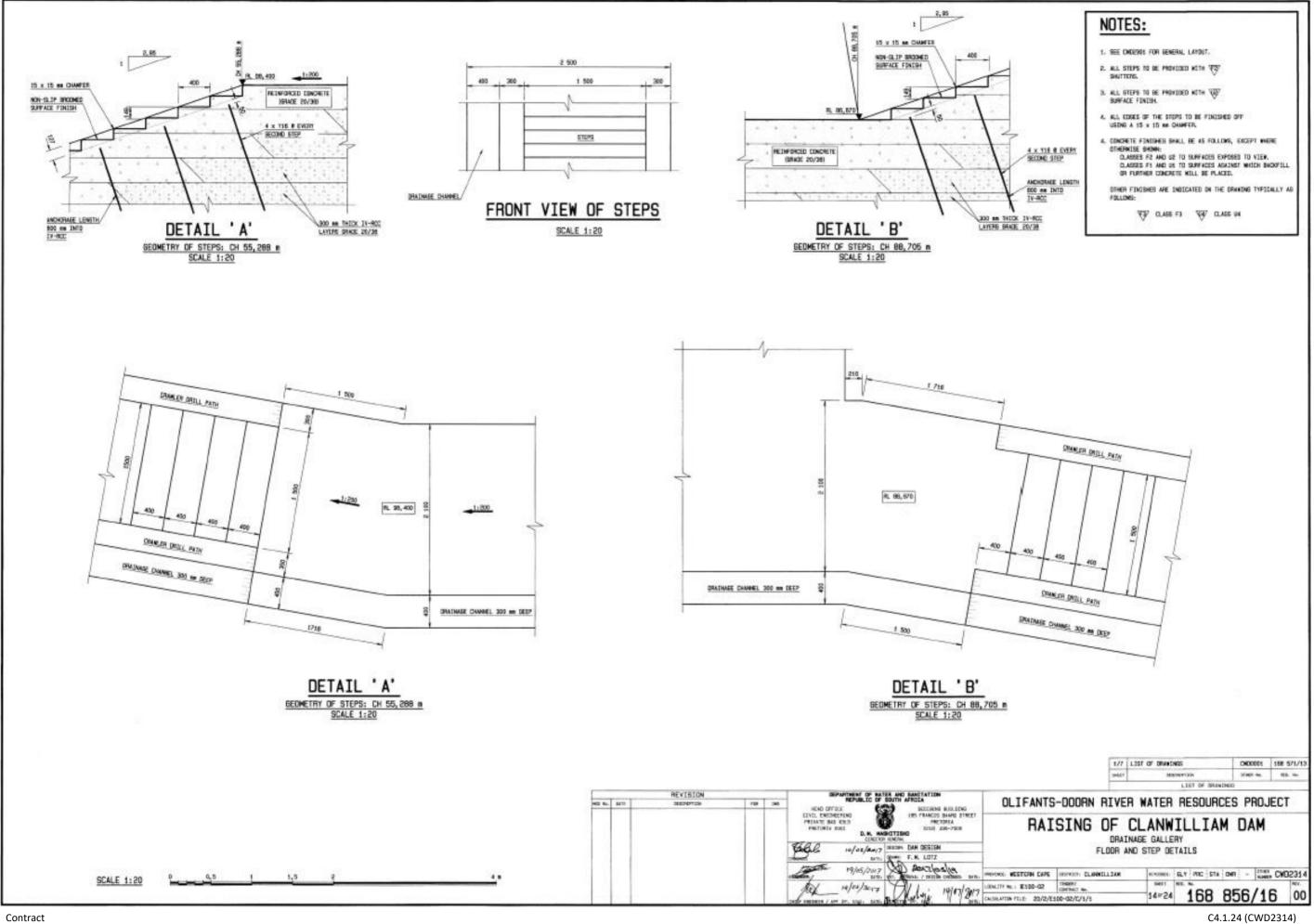
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NT TO BE SUBMETTED FOR THE DEMOLITION AND DESPOSAL OF PILPS AND BRIDGE DEDU. VERS AS WELL AS THE TEMPORARY STERAGE OF THE VERTICAL CREET GATES AND ACCEPTION SE WITH ALLOWBLE REPAINTON AND ENVIRONMENTAL REPUECHMENTS.			
F THE SPOLLWY TO BE DONE DURING LOW DAW WATCH LEVELS DY ALTURNATION BLOCKS HE CONSTRUCTION JOINTS NOT HOISER THAN 14 N AND DRLY DHE BLOCK AT A TIME.			
OVES ON TOP SF THE ESTIMATED FOUNDATION TO BE PLACED LEVEL UP TO A REBUSED Design insumeri.			
DE WITH A MINDAUN THICKNESS NOT LESS THAN 2 & AS SPECIFIED ON DRAWING.			
DE 20/38 COMDRETE, 1F MOT SPECIFICIO OTHERMOSE.			
ED COMCRETE BRACE 20/38.			
FIES ON SMARCHS: LENGS OF JOINTS ON SITE. DAMATHEAN FACE TO BE FERINGED BY SANOBLASTING OF SUMILAR METHOD. ISOBATE WAR BASED CARING COMPRIME TO BE USED FOR WOITE-WARNING OF LONDAR REQUYAL OF BARFADE LAND. JOINT AS FRECTISE TH BETAIL TA'. COMPT IS LESS FILMAR # IN HEIGHT, THE JOINT IS TO BE FILMAR, SH AS INSTRUCTED			
BEER WATERTOP SHOLD BE MEDIANIENLLY FIXED BENEVITY SLIDING JOINT, AS SHOW			
ED ON DRWHIMS: LEYELS OF JOINTS ON SITE. CAN FACE TO BE REMOND BT JET BLASTING OF SUMLAR METHOD TION HOL 25 ON ONDE2301, LES 1,2 & LONG TO BE ANDROFED BOD WE DEEP INTO DOWNSTREAM FAIE # 1 & 5/0.			
NEES OF 2 & DS RESUDRED, FOR NEW DAM FOOTPRONT, REFORE GROUTING MAY COMMENCE.			
DONE AS INDICATED AND SPECIFIED IN ORDITING GRANDINGS.			
AS PER THE SPOUTINE HOLE LAYOUT (DWD1101)-			
IN CONSTREAM TOE: HOLES TO BE RECHTLED, LLEANED AND LLOSED OFF REFORE 2 DOWLES TO BE FACTORY PRINTED 1 000 am ON EACH SOLE OF THE RECK/CONCRETE IT EVERY PROTECTIVE CONTINUE LEDNE SIDALEND-BON ON COLAL. THE COLOUR OF SPECIFICATION OF THE EMEDNEER.			
ED BEDEVATHETEL DIVIDE ACTIVE A REVENUE THEOROGES OF 40 mm, POSITIONED DEWERTREAM JOINTS AS MELL AS DA THE CENTRE OF EACH BLOCK OF THE EXESTING DAM WALL ONLY ULL BE FEMALED.			
opajnae: Kon-Kone Needle Plnched Bentestile 575 g/W $^{\rm OP}$ Ebul: 1 400 km kude.			
CALIRED FOR RORENCLES TO BE DROLLED EITHER AT THE ONS THE OR AT APPROXIMATELY F EACH BLICK TO COMFIRM THE EFL OF EXISTING DAM. CORE SAMPLES TO BE DEBORIDED DIST AND SENT TO THE UNIVERSITY OF CAPE TOWN LACT) FOR ANALL ADDROADLE			
IN TO WHICH THE WENTICAL DRAINAGE HOLES ARE DROLLED WILL WARY WITH CHAINAGE AS ICH THE HOLE IN ORTILED THROUGH THE TOP OF THE GALLERY.			
EQUIRED FOR ALL VERTICALLY INCLOSED GRAINAGE HOLES TO BE ORTILLED IN SUCH A NT IS AT RL 110,120 AND DEFSET 6 000 mm FROM THE UPSTREAM REFERENCE LINE.			
TED AND APPRIVED BY THE ENGINEERIDIG GEOLIDEET AND THE APP PROOT TO ANY			
DUER AND EARTHONS SPECIFICATIONS AND LANDIT DETAILS. SEE CHERREN.			
THE DEMOSTREAM STEPS OF THE NEC SHALL BE FERENRED TO THE FOLLOWING			
ATHESS OF PLANE SUFFACE 35 RUPT DAMAGES IN CONTINUESS SUFFACE 2			
IN FLATMENT IN CONTINUES SUPPLY 2 IN FLATMENT OF A PLANE SUPPLY OF ANY ADAPT CHANGE IN CONTINUES SUPPLY AS THE MAXIMUM DEVIATION OF THE SUPPLY FROM ANY STRAIGHT LINE OF LENGTH DIVIS ON THE SUPPLY.			
ON CHORSES, FOR REDUCING SHUTTER FIRESHES.			
ED OPHDHADE DETHOLS AND LAPOUT.			
to be covered with non-moven needle punched bedtexitile 575 g/n ² or			
BAGED ON THE 1:200 YEAR FLOOD OF 1 080 # ³ /# MITH 4 OF THE 13 GATES DLOGED.			
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