

# SILVER LAKES HOMEOWNERS ASSOCIATION

2716-01: TENDER FOR THE CONSTRUCTION OF A TIMBER PEDESTRIAN  
WALKWAY BRIDGE BETWEEN THE 9<sup>TH</sup> TEE BOX AND 9<sup>TH</sup> GREEN

## ENGINEERING AND CONSTRUCTION

### SHORT CONTRACT

A contract between Silver Lakes Homeowners Association  
(the *Employer*)

and \_\_\_\_\_  
(the *Contractor*)

for The construction of a timber pedestrian walkway  
bridge between the 9<sup>th</sup> tee box and 9<sup>th</sup> green at the  
Silver Lakes Golf and Wildlife Estate

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# CONTRACT DATA

<b>Employer</b>	<i>Silver Lakes Homeowners Association</i>
<b>Physical address</b>	<i>17 Muirfield Boulevard, Silver Lakes</i>
<b>Postal address</b>	<i>PO Box 1116, SILVER LAKES, 0054</i>
<b>Telephone</b>	<i>012 809 0281</i>
<b>E-mail address</b>	<b><u><a href="mailto:golfmanager@silverlakes.co.za">golfmanager@silverlakes.co.za</a></u></b>
<b>The works are</b>	<i>The construction of a new timber pedestrian walkway bridge between the 9<sup>th</sup> tee and the 9<sup>th</sup> green at the Silver Lakes Golf and Wildlife Estate:</i>
<b>The site is located at</b>	<i>The Silver Lakes Golf Estate.</i>
<b>Tender Advertisement</b>	<i>28 August - 11 September 2023</i>
<b>Tender Document</b>	<i>Contact Andrew Curlewis at <a href="mailto:golfmanager@silverlakes.co.za">golfmanager@silverlakes.co.za</a> to acquire the tender document.</i>
<b>Compulsory site meeting</b>	<i>11 September 2023 @ 12h00 at Silver Lakes Club House. Contact Andrew Curlewis at 082 940 5510 to obtain an access code.</i>
<b>Tender closing date</b>	<i>Tenders, in sealed envelopes, to be deposited into the tender box at HOA Silver Lakes before 02 October 2023 @ 12h00.</i>
<b>Appointment of Contractor</b>	<i>9 October 2023</i>
<b>The period for reply is</b>	<i>One week</i>
<b>Site handover date</b>	<i>10 October 2023</i>
<b>Construction period</b>	<i>_____ weeks (To be completed by Tenderer)</i>
<b>The defects date is</b>	<i>52 weeks after completion</i>
<b>The defects correction period is</b>	<i>One week</i>
<b>The delay damages are</b>	<i>R 3 000.00 per day</i>
<b>The assessment day is</b>	<i>25th day of each month</i>
<b>Retention</b>	<i>10% of the Construction Amount</i>
<b>Compulsory returnable documents to be submitted along with tender document</b>	<ol style="list-style-type: none"> <li><i>1. Original SARS Tax Clearance certificate</i></li> <li><i>2. Proof of registration with CIDB (Minimum Grading of 4 CE)</i></li> <li><i>3. Company Registration</i></li> </ol>

*The Employer reserves the right to appoint any contractor.*



## CONTRACT DATA (Continued)

The *conditions of contract* are the NEC3 Engineering and Construction Short Contract (June 2005) and the following additional conditions:

### 1. **GUARANTEE**

The *Contractor* shall deliver to the *Employer* within 14 days from the date of acceptance of the *Contractor's* offer a guarantee of an Insurance Company or Bank to be jointly and severally bound with the *Contractor*, in accordance with the provisions of the Form of Guarantee, in a sum equal to 10% of the offered total of the Prices (including VAT), for the due performance of the Contract. The said Company or Bank shall be subject to approval by the Employer.

The *Employer* shall be empowered to withhold all payments until the *Contractor* has complied with his obligations in terms of this Clause.

Expenditure incurred in obtaining such guarantee and the Form of Guarantee to be entered into shall be borne by the *Contractor*.

The Form of Guarantee shall be returned to the Guarantor within 14 days after the issue of the Certificate of Completion in respect of the whole of the Permanent Works.

(Other conditions as required by the Silver Lakes Homeowners Association).

# THE CONTRACTOR'S OFFER

The *Contractor* is

**Name** \_\_\_\_\_

**Registration No.** \_\_\_\_\_

**Physical address** \_\_\_\_\_

**Postal address** \_\_\_\_\_

**Telephone** \_\_\_\_\_

**E-mail address** \_\_\_\_\_

The percentage for overheads and profit added to the *Contractor's* Cost for people is \_\_\_\_ %

The percentage for overheads and profit added to other *Contractor's* Cost is \_\_\_\_ %

The *Contractor* offers to Provide the Works in accordance with the conditions of contract for an amount to be determined in accordance with the conditions of contract.

The offered total of the Prices is as follows:

**R** \_\_\_\_\_ (*Incl. VAT*)

Signed on behalf of the Contractor

Name \_\_\_\_\_

Position \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

# THE EMPLOYER'S ACCEPTANCE

The *Employer* accepts the *Contractor's* Offer for Alternative \_\_\_\_\_ to provide the Works

Signed on behalf of the *Employer*

Name \_\_\_\_\_

Position \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

# PRICING INSTRUCTION

## PRICING INSTRUCTION

The successful tenderer will be required to construct the walkway piers, decks and railings while the dam is filled with water. It is assumed that the contractor will drive/jack the timber columns/piers by constructing temporary scaffolding within the water that will form a working platform from where the pier jacking can be performed.

## PRICING ALTERNATIVE

The Contractor is more than welcome to include an alternative construction method with the same principle that the dam will not be emptied for construction.

It is not compulsory to submit such an alternative.

# PRICING SCHEDULE



<b>CONTRACT No</b> 2716-01	
<b>SILVER LAKES GOLF AND WILDLIFE ESTATE - NEW WALKWAY BRIDGE AT THE 9th</b>	
CONTRACTOR	SIGNATURE
Enter the rates against each item colour in green (make sure that each rate is completed, also those where the quantities are nil)	
Print the completed Schedule of Quantities and sign every page	
Issue the signed printed Schedule of Quantities together with the document and any other information which the tenderer wishes to include, in a sealed envelope before the closing date and time as advertised.	

ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1		<b>PHASE 1 SECTION 1: PRELIMINARY AND GENERAL</b>				
1.1	SABS 1200 A	SCHEDULED FIXED-CHARGE AND VALUE-RELATED ITEMS:				
1.1.1	8.3.1	Fixed preliminary and general charges	Sum	1.00		
1.1.2	8.3.2	Value-related preliminary and general charges	Sum	1.00		
1.2		SCHEDULES TIME-RELATED ITEMS:				
1.2.1	8.4.1	Time-related preliminary and general charges	Sum	1.00		
		<b>TOTAL SECTION 1</b>				<b>R -</b>

2		<b>PHASE 1 SECTION 2: WALKWAY BRIDGE - 23 x 3m SECTIONS</b>				
2.1	SABS 1200 F	PILING (Jacking of columns/piers)				
2.1.1	8.2.8	Installation of columns/piers, irrespective of pier length, by means of jacking up to the following depth ranges : The rate shall also cover the cost of all equipment, labour, support, hoisting, jacking platform, scaffolding, pile caps, the use of a barge or boat, etc.				
2.1.1.1		0-1m	No.	50.00		
		1-1.5m	No.			
2.2		Supply and install carbon steel pile driving points with a thickness of 5mm or more to fit 175-200mm Class H5 gum poles.	No.	50.00		
2.3		CREOSOTE TREATED TIMBER				
2.3.1		Supply, drill holes, handle and install the following creosote-treated poles complete with additional creosote applied to all drilled holes prior to inserting and fixing bolts and fasteners.				
2.3.1.1		Railing poles:				
2.3.1.1		100mm-125mm, 3.0m Class H3 gum poles	No.	50.00		
2.3.2		Deck Beams:				
2.3.2.1		150mm-175mm, 2.6m Class H5 gum poles	No.	48.00		
2.3.2.2		150mm-175mm, 3.0m Class H5 gum poles. Cut one side.	No.	66.00		
2.3.3		Piers/Columns				
2.3.3.1		175mm-200mm, 3.0m Class H5 gum poles (Length to be confirmed before order is placed)	No.	8.00		
2.3.3.2		175mm-200mm, 3.5m Class H5 gum poles (Length to be confirmed before order is placed)	No.	10.00		
2.3.3.3		175mm-200mm, 4.0m Class H5 gum poles (Length to be confirmed before order is placed)	No.	12.00		
2.3.3.4		175mm-200mm, 4.5m Class H5 gum poles (Length to be confirmed before order is placed)	No.	20.00		
2.3.4		Supply, drill holes, handle and install the following creosote-treated planks complete with additional creosote applied to all drilled holes prior to inserting and fixing screws.				
2.3.4.1		Railing planks:				
2.3.4.1		3.2m x 144mm x 38mm Class H3	No.	92.00		
2.3.5		Deck Planks:				
2.3.5.1		2.5m x 228mm x 38mm Class H3	No.	303.00		
2.4		GALVANISED TIMBER FASTENERS				
2.4.1		Supply, cut to specified length and install galvanised threaded rods:				
2.4.1.1		M12	m	130.00		
2.4.2		Supply and install galvanised nuts (confirm with engineer before ordering)				
2.4.2.1		M12	No.	650.00		
		<b>TOTAL CARRIED OVER TO NEXT PAGE</b>				<b>R -</b>

<b>CONTRACT No 2716-01</b>						
<b>SILVER LAKES GOLF AND WILDLIFE ESTATE - NEW WALKWAY BRIDGE AT THE 9th</b>						
CONTRACTOR				SIGNATURE		
ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>TOTAL CARRIED OVER FROM PREVIOUS PAGE</b>						<b>R -</b>
2.4.3		Supply and install galvaised washers (confirm with engineer before ordering)				
2.4.3.1		M10	No.	2010.00		
2.4.3.2		M12	No.	650.00		
2.4.6		Supply and install galvanised hex coach screws for timber deck planks. Screw heads to be countersunk level with deck plank (confirm with engineer before ordering)				
2.4.6.1		M10 x 100mm	No.	2010.00		
<b>TOTAL SECTION 2</b>						<b>R -</b>

3		<b>PHASE 1 SECTION 3: WALKWAY SLABS &amp; ABUTMENTS</b>				
3.1	SANS 1200 C	SITE CLEARANCE				
3.1.1	8.2.1	Clear and grub of site	ha	0.01		
3.1.2	8.2.8	Demolish and remove structures				
3.1.2.1		Demolish existing bridge slabs and remove rubble to a site to be provided by the contractor	Sum	1.00		
3.2	SANS 1200 DA	EARTHWORKS				
3.2.1	8.3.1 b)	Preparation of Site:				
3.2.1.1		Removal, stockpiling and maintenance of topsoil to a depth of 220mm and use for backfill or dispose.	m³	5.00		
3.3	8.3.2	Restricted excavation:				
3.3.1		Excavate and safeguard for bridge abutment footings in all materials and use for backfill or dispose. Compact to 90% Mod AASHTO density.	m³	17.00		
	SANS 1200 DM	EARTHWORKS (ROADS, SUBGRADE)				
3.3.2	8.3.3	Rip insitu material to a depth of 125mm and compact to 90% Mod. AASHTO density beneath abutments and walkway slabs	m³	4.00		
3.3.3	8.3.5	Backfill abutment cavity with graded crushed stone base (G7) from material from a commercial source and compact to 93% Mod. AASHTO density	m³	5.00		
	SANS 1200 MFL	BASE				
3.4	8.3.3	Construct a 100mm thick graded crushed stone base (G5) from material from a commercial source and compact to 95% Mod. AASHTO density underneath abutment and slab	m³	3.00		
3.5	SABS 1200 GA	CONCRETE (Small Works)				
3.5.1	8.2.2	Scheduled formwork items				
3.5.2		Smooth Vertical Formwork to:				
3.5.2.1		Abutment floor sides	m²	3.00		
3.5.2.2		Sides of concrete walkway slabs	m²	3.00		
3.6		SCHEDULED REINFORCEMENT ITEMS				
3.6.1	8.3.2	High-tensile welded mesh:				
3.6.1.1		Mesh Ref 311 provided in 6x2.4m sheets	No	2.00		
3.6.1.2		Mesh Ref 395 provided in 6x2.4m sheets	No	2.00		
3.7		SCHEDULED CONCRETE ITEMS				
3.7.1		Supply and place prescribed mix concrete:				
3.7.1.1		Class 25 Mpa concrete for bridge abutments	m³	3.00		
3.7.1.2		Class 25 Mpa concrete for 110mm thick walkway slabs	m³	2.00		
<b>TOTAL CARRIED OVER TO NEXT PAGE</b>						<b>R -</b>

<b>CONTRACT No</b> 2716-01						
<b>SILVER LAKES GOLF AND WILDLIFE ESTATE - NEW WALKWAY BRIDGE AT THE 9th</b>						
<b>CONTRACTOR</b>					<b>SIGNATURE</b>	
<b>ITEM</b>	<b>PAYMENT</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>TOTAL CARRIED OVER FROM PREVIOUS PAGE</b>						<b>R -</b>
3.7.2	8.4.2	Blinding layer of 50mm thick Class 15MPa concrete under bridge abutments (only when instructed by the engineer)	m <sup>3</sup>	1.00		
3.7.3	8.4.4	Unformed surface finishes, wood-floated finishes to:				
3.7.1		New concrete walkway slabs	m <sup>2</sup>	12.00		
3.8	PD .01	Supply, place and lay 110mm thick engineering bricks for abutment wall, including all mortar and finishing works	m <sup>2</sup>	25.00		
3.9	PD .01	Supply, place and lay 110mm thick face bricks as construction joints between all walkway panels and abutments, including all infill sand and finishing works	m <sup>2</sup>	1.00		
3.10		Protect existing pipeline and any additional existing services discovered in the vicinity of the site during construction.	Sum	1.00		
<b>TOTAL SECTION 3</b>						<b>R -</b>

<b>SUMMARY</b>						
PHASE 1 SECTION 1: PRELIMINARY AND GENERAL						R -
PHASE 1 SECTION 2: WALKWAY BRIDGE - 23 x 3m SECTIONS						R -
PHASE 1 SECTION 3: WALKWAY SLABS & ABUTMENTS						R -
<b>PHASE 1 WALKWAY BRIDGE SUBTOTAL 1</b>						<b>R -</b>
5% CONTINGENCIES						R -
<b>PHASE 1 WALKWAY BRIDGE SUBTOTAL 2</b>						<b>R -</b>
VAT (15%)						R -
<b>TOTAL CONSTRUCTION VALUE (INCL VAT)</b>						<b>R -</b>

# WORKS INFORMATION

## 1. DESCRIPTION OF THE WORKS

The work comprises the construction of a timber pedestrian walkway bridge crossing the dam around the 9<sup>th</sup> green at the Silver Lakes Golf and Wildlife Estate. The walkway bridge extends from the side of the 9<sup>th</sup> tee box towards the 9<sup>th</sup> green.

The work includes the following :

- i) Jacking of bridge piers or columns.
- ii) Installation of bridge trusses or beams and bridge walkway deck.
- iii) Complete the construction of the new timber walkway bridge including all fasteners, bracing and timber treatment.
- iv) Construction of concrete walkway sections to link up with the new timber walkways.
- v) Construction of two 1.5m x 1.5m x 2m abutments on the stream banks to link up with the new timber walkways.

## 2. CONSTRUCTION METHOD

The method that will be employed to construct the bridge is the span-by-span erection method. This method utilizes trusses or beams spanning between permanent piers or columns. The reason being the pond cannot be emptied during construction for reasons beyond control. The bridge will therefore be constructed whilst the pond at the 9th hole is full of water.

The first set of timber piers or columns will be driven into the riverbed or pond bottom from the river shore or pond edge by means of jacking equipment.

After the first set of piers or columns are installed the next set of piers or columns will be installed extending over the water and into the river or pond also by jacking the piers or columns into the riverbed or pond bottom using a boat, barge or any type of floatation device or temporary scaffolding within the water that will form a working platform from where the contractor can perform the jacking work.

After the first 4 piers or columns are installed the timber trusses or beams will be installed in between the piers or columns.

The next two piers or columns will be installed by the same jacking method and, once installed, the next trusses or beams will be installed.

All piers or columns will be jacked up to the required level or up to refusal.

This method shall be employed to construct the bridge progressively over the pond and up to the 9th green. Alternative construction methods may also be proposed to construct the bridge without emptying the pond as an alternative quote.

# WORKS INFORMATION

## 3. DRAWINGS

VIP Consulting Engineers Structural Drawings:

2716-S-AA-01: General Layout - Walkway at the 9<sup>th</sup>

2716-S-GD-01: General Detail - Timber Walkway at the 9<sup>th</sup>

2716-S-GD-01: General Detail - Walkway Slabs and Abutments at the 9<sup>th</sup>

## 4. SPECIFICATIONS

SABS 1200 A : General

SABS 1200 C : Site Clearance

SABS 1200 DA : Earthworks (Small Works)

SANS1200 DM : Earthworks (Roads, Sub-grade)

SANS1200 F : Piling

SABS 1200 GA : Concrete (Small Works)

SANS1200 MFL : Base (Light Pavement Structures)

## 5. CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

### 5.1 TREATMENT OF EXISTING SERVICES

All existing services will remain operational throughout the construction of the Works. The Contractor will be responsible for the location of all known services and for the protection of the existing services during the construction of the Works.

### 5.2 DAMAGE TO SERVICES

The Contractor will be responsible for any damage to any known services whether or not such known services have been pointed out to the Contractor or not.

### 5.3 REINSTATEMENT OF SERVICES DAMAGED DURING CONSTRUCTION

Any services that are damaged during construction shall be reported by the Contractor to the owner of the service. The Contractor shall make the necessary arrangements with the owner of the service for the repair of the service.

Official roads used for construction purposes during the execution of the works must be cleaned and reinstated after completion of the contract.

### 5.4 SURVEY CONTROL AND SETTING OUT OF THE WORKS

The Contractor shall be responsible for all survey control and setting out of the works. The Contractor shall at his cost establish at least four benchmarks in a convenient location on the site for reference and control purposes.

## **WORKS INFORMATION (Continued)**

### **5.5 ENVIRONMENTAL MANAGEMENT REQUIREMENTS**

1. The Contractor shall comply with all applicable environmental legislation and regulations.
2. In case of failure on the part of the Contractor to comply with the requirements referred to in Clause 4.5.1 above the Employer shall be entitled to employ and pay other persons to carry out any remedial work to rectify any consequence resulting from the non-compliance by the Contractor and all cost consequent or incidental thereto shall be borne by the Contractor and shall be recoverable from him by the Employer. If it is not practical to rectify any consequence resulting from the non-compliance of the Contractor with relevant requirements the Employer will be entitled to impose a penalty on the Contractor which penalty shall be in relation to the expense which the Contractor would have incurred to comply.

### **5.6 HEALTH AND SAFETY REQUIREMENTS AND PROCEDURES**

The Contractor shall at all times comply with the health and safety requirements as laid down in terms of the Occupational Health and Safety Act, Act 85 of 1993 and the Construction Regulations 2003.

The contractor shall prepare and submit a Health and Safety Plan in accordance with the Health and Safety Specification and submit the same for consideration and approval by the Employer. The Contractor shall comply with all other requirements of the Health and Safety Specification and shall execute construction of the Works in accordance with the Health and Safety Plan.

## **6. PROGRAM**

The Contractor's programme shall be in the form of a Gantt chart and shall show;

- i) the various activities, related to a time scale, for each element of the Works, including those of Nominated Subcontractors, in sufficient detail to be able to assess construction progress,
- ii) critical path activities and their dependencies,
- iii) key dates in respect of work to be carried out by others, and
- iv) key dates in respect of information to be provided by the Employer's agent.

The Contractor shall submit with his programme, a copy of any network diagram used in producing the program.

The following constraints shall be taken into account in preparing the construction programme:

- i) A high standard of traffic accommodation must be implemented in areas where the works interfere with normal traffic flow.

## **WORKS INFORMATION (Continued)**

- ii) The Contractor shall be deemed to have allowed fully in his tendered rates and prices as well as in his programme for all possible delays due to normal adverse weather conditions and special non-working days as specified in the Special Conditions of Contract, in the Project Specifications and in the Contract Data.

### **7. SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER**

None

# SITE INFORMATION

## 1. DESCRIPTION OF SITE AND ACCESS

### 1.1 LOCATION OF THE SITE

The site is located in Silver Lakes Golf and Wildlife Estate. The new walkway bridge will be constructed between the 9<sup>th</sup> tee box and the 9<sup>th</sup> green at 25°46'14.58"S, 28°22'8.05"E.

### 1.2 ACCESS TO THE SITE

Access to the site is by means of the visitor's side access at the main entrance to the Silver Lakes Golf and Wildlife Estate via Silver Lakes Road.

In the event that construction vehicles are required to operate on any surfaced road in the area, the Contractor is required to keep the surface clean as far as practicable. It is a requirement that the roads be completely cleaned after completion of the works.

## 2. GEOTECHNICAL CONSIDERATIONS

No geotechnical investigation has been conducted.

No dolomite was encountered in the area of the proposed development.

## 3. CLIMATE CONDITIONS

The area falls within a high summer rainfall region with an average annual precipitation of 661mm.

## 4. CONSTRUCTION IN CONFINED AREAS

It may be necessary for the Contractor to work within confined areas. Except where provided for in the specifications, no additional payment shall be made for work done in restricted areas. In certain places the width of available working area may be confined due to existing embankment conditions or any other condition. The method of construction in these confined areas largely depends on the Contractor's construction plant.

However, the Contractor shall note that, unless provided for in terms of the schedule payment items in the SANS 1200 Standard Specifications or these project specifications, measurement and payment shall be in accordance with the specified cross sections and dimensions only, irrespective of the method used for achieving these cross sections and dimensions, and that the tendered rates and amounts shall include full compensation for all special equipment and construction methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions, and that no extra payment shall be made nor shall any claim for additional payment be considered in such cases.

## 5. LABOUR RECRUITMENT CONDITIONS

No special requirements are enforced.



# HEALTH AND SAFETY SPECIFICATION

## 1. GENERAL

This Specification has been prepared in terms of the requirements of Clause 4(1)(a) of the Construction Regulations 2003 which has been published by the Minister of Labour in terms of the Occupational Health and Safety Act 1993, Act 85 of 1993 (Government Notice No R1010 of 18 July 2003).

## 2. HEALTH AND SAFETY PLAN

- 2.1. The Contractor shall, on award of the Contract, appoint a recognized Occupational Health and Safety Practitioner to prepare a comprehensive Health and Safety Plan for the execution of the construction works in compliance with the Occupational Health and Safety Act, 1993, the Construction Regulations 2003 and the requirements of this Specification.
- 2.2. The Contractor shall submit the Health and Safety Plan referred to in Clause 2.1 above to the Employer for consideration and approval seven days prior to commencement of any temporary or permanent construction work on the site.
- 2.3. The Contractor shall not commence with any construction work before the Health and Safety Plan referred to in Clause 2.1 has been approved in writing by the Employer.

## 3. HEALTH AND SAFETY AUDIT

- 3.1. The Contractor shall appoint an independent Health and Safety Practitioner, approved by the Employer, (which approval shall not unreasonably be withheld) to conduct an audit of the Contractor's procedures for compliance with the Health and Safety Plan and to prepare and submit an audit report at a frequency of at least once a month.
- 3.2. The Contractor shall submit the Audit Report referred to in Clause 3.1 above to the Employer on or before the 25th day of each month.

## 4. SUSPENSION OF WORK

- 4.1. The Employer shall have the right to stop the Contractor from executing any construction work which is not in accordance with the Contractor's Health and Safety Plan.
- 4.2. The Contractor will not have any claim against the Employer for damages resulting from the stoppage of construction work as contemplated in Clause 4.1.

## 5. REGISTRATION WITH THE COMPENSATION FUND

- 5.1. The Contractor shall, prior to commencing with any temporary or permanent construction work, submit documentary evidence to the Employer confirming that the Contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer.

# HEALTH AND SAFETY SPECIFICATION (Continued)

## 6. GENERAL OBLIGATIONS

6.1. The Contractor shall throughout the duration of the contract, provide the Employer with the necessary information in order for the Employer to establish the Contractor's compliance with the Act.

6.2. The Contractor shall comply with the following in the execution of this contract:-

- a) provide and maintain as far as is reasonably practicable, systems of work, plant and machinery that, are safe and without risks to health;
- b) take such steps as may be reasonably practicable to eliminate or mitigate any hazard or potential hazard to the safety of health of employees, before resorting to protective equipment;
- c) make arrangements to ensure, as far as is reasonably practicable, the safety and absence of risks to health in connection with the production, processing, use, handling, storage or transport of articles and substances, where applicable;
- d) establish, as far as is reasonably practicable, what hazards to the health or safety of persons are attached to any work which is performed in terms of this contract, any article or substance which is used, handled, stored or transported and any plant or any machinery which is used in the contract and the Contractor shall as far as is reasonably practicable, further establish what precautionary measures should be taken with respect to such work, article, plant or machinery where applicable, in order to protect the health and safety of persons on the contract works and the Contractor shall provide the necessary means to apply such precautionary measures;
- e) provide such information, instructions, training and supervision as may be necessary to ensure, as far as is reasonably practicable, the health and safety at the contract works of his, the Employer's and any sub-contractor's employees, involved in the contract works;
- f) as far as is reasonably practicable, not permit any employee to do any work or to produce, process, use, handle, store, or transport any article or substance, where applicable, or to operate any plant or machinery, unless the necessary precautionary measures contemplated in this clause 3 of this annexure or prescribed by the chief inspector, have been taken;
- g) take all the necessary measures to ensure that the requirements of the Act are complied with by every person in his employment or on the site of the contract works where plant or machinery is used;
- h) enforce such measures as may be necessary, in the interest of health and safety;
- i) ensure that work is performed, and that plant or machinery is used under the general supervision of a person trained to understand the hazards associated with it and who has the authority to ensure that precautionary measures taken by the Employer and the Contractor are implemented; and

## HEALTH AND SAFETY SPECIFICATION (Continued)

- j) cause all employees to be informed regarding the scope of their authority in the execution of the contract and in terms of the act.

6.3. The Contractor shall execute this contract in such a manner as to ensure, as far as is reasonably practicable, that persons other than those in his or her employment who may be directly affected by the Contractor's activities are not thereby exposed to hazards to health or safety.

6.4. The Contractor who erects or installs any plant, article, or machinery for use at the Employer or on the Employer's premises, shall ensure, as far as is reasonably practicable, that nothing about the manner in which it is directed or installed makes it unsafe or creates a risk to health and safety when properly used.

6.5. The Contractor shall:

- a) as far as is reasonably practicable, cause every employee to be made conversant with the hazards to such employee's health and safety attached to the work to be performed at the Employer, as well as with the precautionary measures which should be taken and observed with respect to those hazards;
- b) inform the Employer beforehand of any inspections, investigations, or formal inquiries of which he has been notified by an inspector in terms of the Act and of any application for exemption made by him in terms of the Act; and
- c) inform the Employer as soon as reasonably of the occurrence of an incident in the workplace or section of the workplace where the Contractor is performing work in terms of the contract.

6.6. The Contractor shall ensure that its employees and any sub-contractor's employees comply with the following:

- a) take reasonable care for the health and safety of any employee and of other persons who may be affected by the employee's act or omission;
- b) co-operate with the Employer or any person designated for this purpose by the Employer to enable the Employer to comply with any duty or requirement to be performed or complied with in terms of the Act;
- c) carry out any lawful order given to him or her and obey the health and safety rules and procedures laid down by the Employer or any person authorised thereto by the Employer or the Contractor in the interest of health and safety;
- d) if any situation which is unsafe or unhealthy comes to the employee's attention, as soon as reasonably practicable report such situation to the Contractor as well as to the Employer;

## HEALTH AND SAFETY SPECIFICATION (Continued)

- e) if such an employee is involved in any accident which may affect his or her health or which has caused an injury to him or her, report such incident to the Contractor as well as the Employer or anyone authorised thereto by the Employer as soon as reasonably practicable;
  - f) intentionally or recklessly interfere with, damage or misuse anything which is provided in the interest of health or safety.
- 6.7 The Contractor hereby confirms that its Chief Executive Officer, as defined in the Act, has as far as is reasonably practicable ensured that the duties of the Contractor in the execution of this contract and as contemplated in the Act, have been properly discharged.
- 6.8 If the number of employees employed by the Contractor in terms of this contract exceeds 20 (twenty), the Contractor shall within 14 (fourteen) days of the commencement of the contract works provide the Employer with full particulars of the safety representatives at the contract works. The Contractor shall simultaneously confirm that it complied with section 17(2) of the Act in the appointment of the safety representatives and that such health and safety representatives received the necessary facilities, assistance and training to fulfil their duties and functions as health and safety representatives.
- 6.9 If there are two or more health and safety representatives involved in the contract works, the Contractor shall, within 7 (seven) days from the date of a meeting of such health and safety representatives, send a copy of the minutes of such a meeting, as well as a copy of any recommendation made by the health and safety committee.
- 6.10 The Contractor shall not make any deduction from any employee's remuneration or require or permit any employee to make any payment to him or her or any other person in respect of anything which the Contractor is in terms of the Act, or this contract, required to provide or to do in the interest of the health and safety of any employee on the contract works.
- 6.11 The Contractor shall immediately report to the Employer any incidents occurring at the place or places where the Contractor performs any work in terms of this contract, in which or in consequence of which:
- a) any person dies, becomes unconscious, suffers the loss of a limb or part of a limb or is otherwise injured or becomes ill to such a degree that he or she is likely either to die or to suffer a permanent physical defect or is likely to be unable for a period of at least 14 (fourteen) days either to work or to continue with the activity for which such employee was employed or is usually employed;
  - b) an occurrence of catastrophic proportions, as defined in the Act and resulting from the use of plant or machinery or from any activity in the performance of this contract; or

## HEALTH AND SAFETY SPECIFICATION (Continued)

- c) the health or safety of any person was endangered and where:
  - i. the uncontrolled release of any substance or pressure took place;
  - ii. machinery or any part thereof fractured or failed, resulting in flying, falling or uncontrolled moving objects; or
  - iii. machinery ran out of control.

6.12 The Contractor or any of the Contractor's employees shall not without the consent of an inspector disturb the site on which any incident occurred in which a person died or was injured to such an extent that that person is likely to die or suffer the loss of a limb or part of a limb, provided that such action may be taken as is necessary to prevent a further incident, to remove the injured or dead or to rescue a person from danger.

6.13 The Contractor shall in no way whatsoever victimize any of its employees because the Contractor suspects or believes, whether or not the suspicion or belief is justified or correct, that one of his employees has given information to the Employer in respect of any matter concerning the health and safety of employees.

6.14 If an inspector of the Department of Labour wishes to perform any of his or her duties in terms of the Act at the contract works, the Contractor shall at all times provide such facilities as are reasonably required by the inspector to enable him or her and his or her assistant (if any) to perform effectively and safely his or her function under the Act.

6.15 The Contractor or any of its employees shall in no way interfere with or remove any blocking, bar, barricade or fence placed on the instruction of an inspector in terms of the Act.

6.16 The Contractor shall forthwith bring to the Employer's attention the contents of any prohibition, direction or notice given by an inspector to the Contractor or a sub-contractor or any of the Contractor's or sub-contractor's employees in terms of the Act.

6.17 The Contractor shall fully co-operate in respect of any investigation or inquiry by an inspector and provide all necessary assistance, as envisaged in section 34 of the Act in the event of such an inspector investigating or inquiring into any matter related to the Contractor's or sub-contractor's execution of the contract work.

6.18 The Contractor shall not:

- a) In any record, application, statement or other document, referred to in the Act, willfully furnish information or make a statement which is false in any material respect;
- b) hinder or obstruct an inspector in the performance of his or her functions;
- c) refuse or fail to comply to the best of his or her ability with any requirement or request;
- d) refuse or fail to answer to the best of his or her ability any question which an inspector in the performance of his or her functions in terms of the Act, put to him or her;
- e) give himself out as an inspector;

## HEALTH AND SAFETY SPECIFICATION (Continued)

- f) tamper with or discourage, threaten, deceive or in any way unduly influence any person with regard to evidence to be given with regard to any investigation in terms of the Act;
- g) prejudice, influence or anticipate the proceedings of any finding or inquiry in terms of the Act;
- h) tamper with or misuse any safety equipment installed or provided to any person by the Employer or the Contractor;
- i) fail to use safety equipment at any workplace in terms of this contract or in the cause of his or her employment or in connection with the use of plant or machinery;
- j) willfully or recklessly do anything at a workplace in terms of this contract or in connection with the use of plant or machinery which threatens the health or safety of any person.

# **DRAWINGS**



NOTES AND SPECIFICATIONS

1. ALL CONCRETE SHALL HAVE A COMPRESSION STRENGTH OF 25 MPa AT 28 DAYS.
2. CONCRETE MUST BE CURED BY KEEPING IT WET FOR 7 DAYS AFTER PLACING AND BE KEPT COVERED WITH POLYTHENE SHEETING.
3. MAXIMUM SLUMP OF CONCRETE SHALL BE 50mm AND VIBRATORS SHALL BE USED DURING PLACING OF CONCRETE.
4. STRIPPING OF CONCRETE
  - a. VERTICAL SIDES ROAD PANELS = 1 DAYS
5. ALL EXCAVATIONS AND REINFORCING MUST BE INSPECTED BY THE ENGINEER BEFORE CONCRETING MAY COMMENCE.
6. ALL EXPOSED CONCRETE WORK MUST HAVE A WOOD FLOATED FINISH.
7. WALKWAY PANELS TO BE CAST IN MAXIMUM 2,0 METER SECTIONS.
8. ROAD CONCRETE PANELS HAS TO BE COMPLETELY COVERED IN SHADE BEFORE CASTING CAN COMMENCE AND SHOULD CURE IN COMPLETE SHADE.
9. CONCRETE PANELS SHOULD BE RE-VIBRATED WITHIN ONE HOUR AFTER PLACING.
10. ONE TEST CONCRETE PANEL SHOULD BE DONE AND APPROVED BY THE ENGINEER BEFORE ROAD CONCRETE PANELS CASTING CAN COMMENCE.

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PRK.



SKAAL SCALE 1:500



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**VIP CONSULTING ENGINEERS (Pty) Ltd**  
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 Reg No 97/05698/07

PROJEK PROJECT  
**SILVER LAKES GOLF AND WILDLIFE ESTATE  
 NEW WALKWAYS AT 9th & 18th**

DIENSDETAIL SERVICE DETAIL  
**GENERAL LAYOUT :  
 WALKWAY AT THE 9th**

VERWYSINGS NOMMER REFERENCE NUMBER F:\Projects\2001 - 3000\2701 - 2750\2716 Silver Lakes Golf Estate - Pedestrian Walkway Bridge\Drawings

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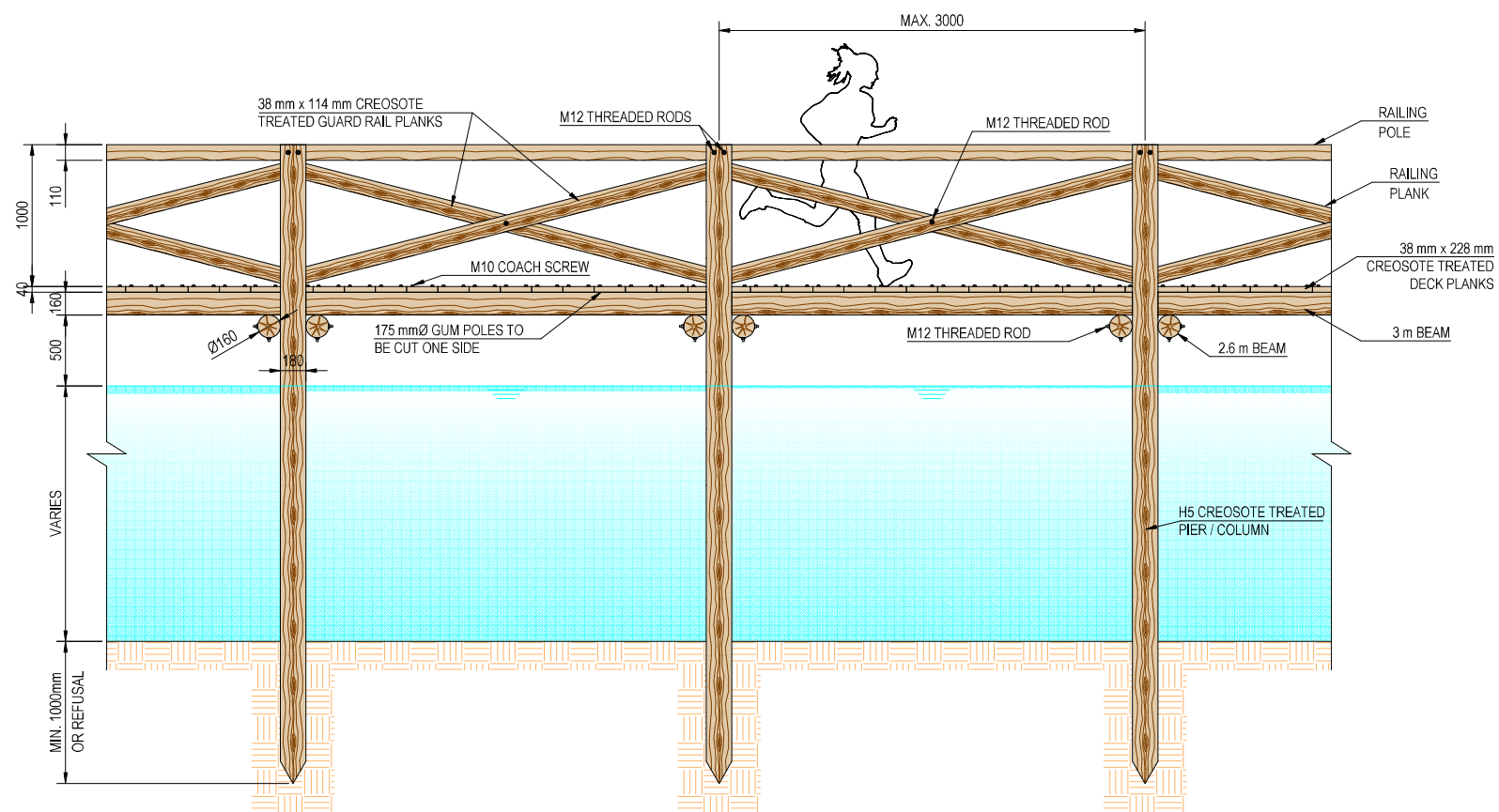
NAGESIEN CHECKED	DATUM DATE
P.S	August 2023

DIREKTEUR DIRECTOR	RAADGEWENDE ING. CONSULTING ENG.
P.S	Pr Eng 20120184

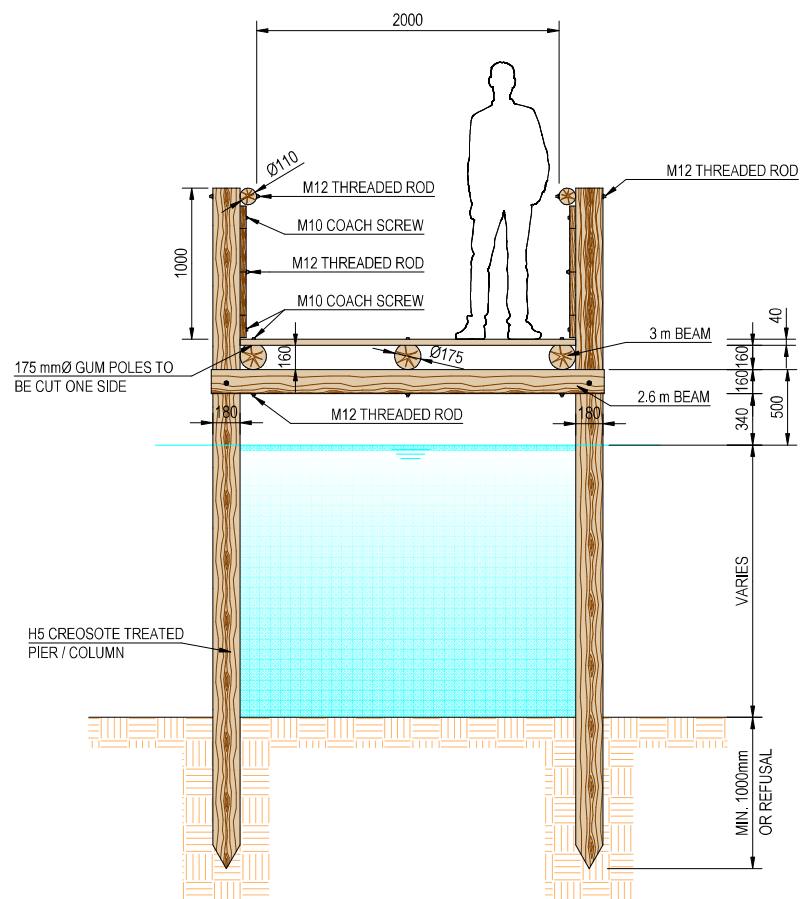
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2716-S-AA-01	





TYPICAL GUM POLE WALKWAY SIDE ELEVATION  
SCALE 1:25



TYPICAL GUM POLE WALKWAY CROSS SECTION  
SCALE 1:25

NOTES AND SPECIFICATIONS

GENERAL

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AMENDMENTS				
Nr.	DATE	APPROVED	DESCRIPTION	PRK.



SKAAL  
SCALE 1:25

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PROJEK  
PROJECT

SILVER LAKES GOLF AND WILDLIFE ESTATE  
NEW WALKWAYS AT 9th & 18th

DIENSDETAIL  
SERVICE DETAIL

GENERAL DETAIL :  
TIMBER WALKWAY AT THE 9th

VERWYSINGS NOMMER REFERENCE NUMBER		F:\Projects\2001 - 3000\2701 - 2750\2716 Silver Lakes Golf Estate - Pedestrian Walkway Bridge\Drawings	
OPGEMEET SURVEYED	ONTWERP DESIGNED	GETEKEN DRAWN	
	B.H	B.H	
NAGESIEN CHECKED	DATUM DATE		
P.S	AUG 2023		
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ING. TEKENINGNOMMER ENG. DRAWING NUMBER			
TEKENINGNOMMER DRAWING NUMBER		GETAL VELLE No. SHEETS	
2716-S-GD-01			

