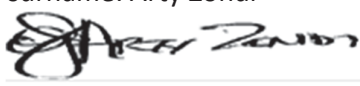


BASE LINE RISK ASSESSMENT



ETHEKWINI MUNICIPALITY Occupational Health & Safety Unit

SITE BASED BASELINE RISK ASSESSMENT Construction Regulations 5.1(a)

Document Title	Baseline Risk Assessment
Client	eThekweni Municipality- Road Provision
Project	UPGRADING – GRAVEL TO SURFACE OF INYANGA CIRCLE, WARD 45, KWA MASHU
Contract Number	1R-33166
Revision	00
Date	27 October 2025
Internal Reference no.	BRA 452/10 /2025
Compiled by (Safety officer)	Name and surname: Siziwe Chiliza Signature: Date: 27/10/25
Reviewed by (Manager: Safety& Risk)	Name and surname: Arty Zondi Signature:  Date: 27/10/25

UPGRADING – GRAVEL TO SURFACE OF INYANGA CIRCLE, WARD 45, KWA MASHU

Roadworks is to upgrade existing 368m gravel track / roadway to 5m hardening surface with possible sidewalk and further 90m length of gravel track to 3.5m width. This will involve earthworks, stormwater upgrade, Kerbing, asphalt surfacing, and retaining walls / gabions.

TABLE OF CONTENTS (refer to Baseline Risk Assessment attached)

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1 PROJECT TITLE

Upgrade and widening and widening of Upgrading – Gravel To Surface of Inyanga Circle, Ward 45, Kwa Mashu.

The Assessment was conducted on **(INSERT DATE)**, during normal working hours.

3 EXECUTIVE SUMMARIES

The Occupational Health and Safety Act of 1993, and its relevant regulations require Employers to conduct a Baseline Risk Assessment prior to the work being performed.

This assessment and observations were made at the above site under the conditions which prevailed on the date of the assessment. Detailed conclusions are given in the relevant sections of this report.

4 SCOPE OF WORK

The works consist of the following:

- Site Clearance, General Clearance of the area of works.
- Relocation of services and other works
- Concrete Works
- Earthworks and Excavation for Roadworks and
- Drainage
- Stormwater
- Kerbing and Channelling
- Asphalt Surfacing

5 BASELINE RISK ASSESSMENT

- a) **INTRODUCTION:** In accordance with the Occupational Health and Safety Act, (Act 85 of 1993) the Legislator places specific requirements on an Employer. One of these is prescribed in Section 8(i) of the Act where it requires the Employer to ascertain the risks and dangers which may occur within the workplace or section of the workplace and then goes on to establish working procedures or practices.
- b) **PURPOSE:** This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation.
- c) **SCOPE:** This assessment could be approached on a site, regional or national level concerning any facet of the business operation or process or activity.
- d) **ABBREVIATIONS, ACRONYMS AND DEFINITIONS**

ABBREVIATION, ACRONYM OR DEFINITION	MEANING
Risk	Uncertain future events that can influence the achievement of the company's objective. Chance of loss
Exposure	Is a condition or practice which involves the employee being subjected to the Hazard or Danger while being normally unprotected
Likelihood or Probability	(inevitable to almost impossible) the Frequency of the exposure (constant to rarely) being one of the parameters
Consequence or Severity	This could be either having a financial, injury and or illness outcome

Risk Ranking	<p>There are three stages namely:</p> <p>IDENTIFYING the RISK: - in terms of the hazard, threats</p> <p>EVALUATING: - the hazard, threats and or exposures identified to establish the potential magnitude of the RISK involved</p> <p>VALUE JUDGEMENT or APPRAISING: - the acceptability and potential impact as well as the magnitude of the hazards, exposure and evaluating the outcome on the business, operations and or the health and safety of people and processes</p>
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ABREVIATION, ACRONYM OR DEFINITION	MEANING
Risk Rating	Equals = Severity + Frequency + Exposure
Baseline Risk Assessment	This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation.
Issue based	This is normally focused at operational activities, processes, systems and functions and focuses on identifying the risks within a certain task, process or activity
Continuous Risk Assessment	The processes, systems and activities monitored on an ongoing basis
Hazard	A chemical, physical, social or political condition that has the potential of causing damage or any kind of harm to people, property the environment or business continuity.
OHS Act	Occupational Health and Safety Act, Act 85 of 1993
Task based Risk Assessment	The appointed Contractor develops a Risk Assessment based on the Clients Baseline and project specific activities
Severity / Consequence	The degree of harm, the potential severity of the injuries or ill health and or the number of people potentially affected
Exposure	Chance that a person or persons will be harmed during the exposure period
Frequency	A measure of the rate of occurrence of an event expressed as the number of occurrences in a given time

ABREVIATION, ACRONYM OR DEFINITION	MEANING
Frequency	A measure of the rate of occurrence of an event expressed as the number of occurrences in a given time
Intolerable Risk	Risk is intolerable and cannot be justified on any grounds
Significant Risk	Risk in which benefit outweighs cost
Moderate Risk	Risk is if cost of reduction would exceed improvement
Tolerable Risk	A Risk that has been reduced to a level that can be endured by the organization having regard to its legal obligations and its own Safety and Health Policy
Residual Risk	The risk that remain after taking into account the effect of the existing controls that have been applied
Average Daily Traffic (ADT)	The average daily traffic count is used as a method to determine how many vehicles travel on a road on a given day
Bollard	Rigid posts that can be arranged in a line to close a road or path to vehicles above a certain width
Flag person	The workers who carry these signs provide traffic control in the construction zone.
Median	A median is a barrier, constructed of concrete, asphalt or landscaping that separates two directions of traffic
New Jersey Barrier	A jersey barrier is a concrete barrier that acts as a traffic control device to separate traffic flow
PPE	Personal protective equipment e.g. gloves, hard hat boots etc.

Shoulder	Reserved area by the verge of a road, generally it is kept clear of all traffic
Sub - Base	Is the layer between the top and the selected layers and the bottom
Base	Is the layer immediately below the surfacing and has to meet stringent requirements regarding material quantities and compaction

ABBREVIATION, ACRONYM OR DEFINITION	MEANING
Cut	Consist of all excavations from the existing ground line to the roadbed and includes the side (table) drains
Fill	Consist of imported material above the roadbed
Side drain	Run parallel to the road
Culvert	Conveys water safely from the upper side of the road to the lower side

6.1 RISK ASSESSMENT METHODOLOGY

All Risk identified during Risk Identification has to be assessed for significance in terms of probability of the Risk event to occur and the impact of the event.

Ranking of the Risk can be based on a simple scale ranging from:

- Very likely to almost certainly
- Actual numerical probabilities can be used
- Risk that are ranking High receives highest priority

The approach and process:

- a) Identify the risk / hazards associated with the work activities
- b) Assess the risk in terms of severity, likelihood of occurring and controllability
- c) Evaluate the risks / hazards
- d) Determine the level of control
- e) Implement controls
- f) Monitor the effectiveness of controls

6.2 RISK ESTIMATION AND EVALUATION

RISK CLASSIFICATION USING A RISK SCORE TECHNIQUE

Exposure (E) How frequently does the hazardous event occur	
Risk classification	
Continuously	10
Frequently (daily)	6
Occasionally (weekly)	3
Unusually (monthly)	2
Rarely (few a year)	1
Probability (P) The probability of a loss when the hazardous event does occur	
Risk classification	
Frequent (happens often)	10
Probable (quite possible)	6
Occasional (unusual, but possible)	3
Remotely possible (has happened somewhere)	1
Improbable (practically impossible)	0.5

Severity (S) Consequences of the hazardous event		
Risk classification		
Catastrophic many fatalities; or interruption of longer than 2 weeks; or asset or environmental damage (or both) exceeding R100m...		100
Disaster (few fatalities; or interruption between one and 2 weeks; or asset or environmental damage (or both) exceeding R10m) ...		40
Very serious (one fatality; or interruption of 6 days; or asset or environmental damage (or both) exceeding R100,000.....		7
Important (temporary disability; or interruption between 6 and 24 hours; or damage exceeding R10,000		3
Noticeable (first aid needed; or interruption of less than 6 hours; damage exceeding R1000)		1
Risk classification (Risk score = E x P x S)		
Risk score	Risk classification	
Over 400-----5	Very high risk – discontinue operation or activity	
200 to 400 ----- 4	High risk – immediate correction needed	
70 to 200----- 3	Substantial risk – correction needed	
20 to 70----- 2	Possible risk – attention needed	
Under 20 ----- 1	Risk accepted	

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3	
2	
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ETHEKWINI MUNICIPALITY

Occupational Health & Safety Unit

CONTRACT NUMBER : 1R – 33166**BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS****WORK PROCESS CATEGORY: ACCESS TO THE SITE**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
1	Accessing the site using construction vehicles	Transportation of staff to and from the site	Construction vehicles could crash into other vehicles / buildings resulting in damage to equipment or employees being injured	6	6	7	252	High	4	The Construction Manager must develop a Driving Policy which incorporates the use of cell phones whilst driving and adherence to speed limits. The Contract Manager must ensure all construction

										vehicles and staff comply to CR23
2	Delivering of equipment to the site	Pedestrian /children using public road	Vehicles/trucks could crash into pedestrians walking along the roadside resulting in critical injuries or fatalities	6	6	7	252	High Risk	4	Construction Manager to ensure the truck is deemed roadworthy. Ensure the Environmental Management Plan is adhered to and the vehicle is equipped with a spill control kit.

3		Oil or petrol spill	Oil and petrol spill could cause ground contamination	6	6	1	36	Possible Risk	2	Construction Manager to ensure the truck is deemed roadworthy. Ensure the Environmental Management Plan is adhered to and the vehicle is equipped with a spill control kit.
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RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION	RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
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WORK PROCESS CATEGORY: **SITE ESTABLISHMENT**

				E	P	S				
2	Ablutions for male / females	Inadequate Welfare Facilities Inadequate or insufficient Toilet Facilities	Inadequate or insufficient Ablution Facilities may result in employees using areas not designated for the use thereof Unhygienic condition	6	6	3	108	Substantial Risk	3	CR 28 1 per30 NBR prescribe chemical toilets for construction site. Sufficient showers and changing facilities for both male and female

3	Sheltered eating facilities	Unsafe positioning of ablution and sheltered eating areas	Unsafe positioning of ablutions and sheltered eating areas may result in vehicles veering of the road and into the facilities and resulting in critical injuries	6	6	7	252	High	4	Refuse bins with lids provided. Facilities clean and hygienic
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	Clearing of the site area	Snakes	The presence of the snakes may result in snake bites causing fatalities							Snake awareness training developed
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4	Maintenance workshop Secure / safe storage of materials / plant and equipment	Incorrect stacking of parts and spares could cause tripping hazards	Slips, trips and falls	6	6	3	108	Substantial Risk	3	Adequately ventilated ignition free Emergency shower / eye wash provided

6	Site clearing using Earthmoving equipment/ machinery	Protected vegetation	Damage to protected vegetation could result in damage to the ecosystem	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that protected vegetation is clearly demarcated and the Environmental Plan is adhered to
	Site induction	Injuries to person not familiar to site	Property damage Sustainable injuries	6	6	3	54	Substantial Risk	3	Construction Manager to ensure all on site is inducted

7	The storage /usage of flammable liquid/gasses and combustible materials	The incorrect storage of flammable liquids/gasses and combustible materials	The incorrect storage could lead to Environmental spillages							The Construction Manager must ensure that they adhere to the Client H&S Specification with regards to combustible substances.
8	Vehicle leaving / entering the site	Traffic disruption, injury to people	Damage to property	6	6	3	108	Substantial Risk	3	Competent operators/ drivers, use of flag person
9	Unsafe stacking and storage practices	Collapse of stored materials	Collapse of stored materials may result in injury of personnel	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that they adhere to stacking and storage principles as contained in the

										General Safety Regulations
10	Installation of Temporary Electrical Installations	Exposed Electrical Cables/ Wires	Contact with exposed electrical cables may result in electrocution	6	6	7	252	High	4	CoC, appointments, registers, competent person
11	Housekeeping	Slips, trips and falls	Tripping and falling on superfluous materials can cause cuts on hands, injury to feet	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that waste is removed periodically, and work areas kept clean at all times

11	Fencing	Access to unauthorized persons	Injury to persons	6	6	3	108	Substantial Risk	3	Construction manager to put system of control in place. No unauthorized entry signs to be posted and access controlled
12	Essential emergency equipment Firefighting equipment First Aid Boxes Drinking water	Not having the essential services on hand	Health / loss of property through fire	6	6	3	108	Substantial Risk	3	Construction manager to ensure these requirements are on site from the day site is established

WORK PROCESS CATEGORY: TRAFFIC ACCOMODATION

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
13	Setting up of temporary road works signage	Placing of incorrect signage at locations	Misinformation may cause drivers to become unable to discern what to do resulting in accidents and irate members of the public	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that a suitable site specific Traffic Management Plan is developed and implemented, and a competent Traffic Safety Officer is appointed for the duration of the contract. All temporary road traffic signage must comply with the SARTSM

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

14		Handling and placement of signage without wearing the correct PPE	Handling of signage without gloves, reflective vests and safety	3	3	1	9	Risk Accepted d	1	The Construction Manager must ensure that a task specific risk assessment for PPE
			boots may result in injuries							control is implemented
15	Public vehicular and pedestrian traffic travelling on the public road during construction work	Workers injured by passing traffic	Collision of public vehicles and workers	10	6	7	420	Very High	5	The Construction Manager must ensure that a competent Traffic Safety Officer is appointed and a site specific Traffic Management Plan is implemented

16		Limited or no advanced warning area may result in accidents	Collision of public vehicles and workers	6	6	7	252	High	4	The Traffic Safety Officer must ensure that temporary road works signage is laid out as per the SARTSM and approved Traffic Management Plan
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BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: MATERIALS DELIVERY TO THE SITE

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
17		incompetent Operators	The use of incompetent operators may result in accidents	6	6	7	252	High	4	The Construction Manager must verify that the Operators are deemed competent to operate the Tippers and are medically fit
18		Reversing into public vehicles or property	Reversing into vehicles and property resulting in damages	6	6	3	108	Substant Risk	3	The Contract Manager must ensure that each driver is accompanied by a competent banks man and designated safe areas for offloading demarcated

19		Uneven ground, soft soil,	Damage to plant and equipment as well as crushing injuries or fatalities	6	6	7	252	High	4	The Construction Manager must ensure that each driver is accompanied by a competent banks man when working in high risk areas
20	Cement / concrete dust	Inhalation. Contact with skin , eyes	Severe irritation, burns, long term damage	6	6	3	108	Substant Risk	3	Wash immediately if coming into contact

21	Loading / off loading the truck	Incorrect slings being used	Property damage and serious injury or fatality	6	6	7	252	High	4	Rigging to be done by a trained and competent rigger and the task to be supervised by the supervisor
22	Aggregate / sand and other materials delivered	Uneven ground, soft soil,	Damage to plant and equipment	6	6	3	108	Substantial Risk	3	The Construction Manager must assess steep gradients on foot before plant is moved onto the site to determine if the area is safe
23	Manual handling Ergonomics	Incorrect posture	Back strain Skeletal damage	3	6	3	54	Possible Risk	2	Employees to be trained in the correct lifting technique

24	Mechanical handling	Employee being struck	Serious injury	3	6	3	198	Substantial Risk	3	Constant supervision
25	Lifting / lowering operation	Employee being struck by the load	Serious injury Fatality	10	6	7	420	Very High	5	Rigging to be done by a trained and competent rigger and the task to be supervised by the supervisor

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **EXCAVATION**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
26	Transporting of material to and from the site	Defective tipper trucks, excavators and front-end loaders	The use of defective plant /equipment may result in accidents	6	6	3	108	Substantial Risk	3	The Contraction Manager must verify that all Tipper trucks utilized on site has a recent service inspection register in place and is signed off by the relevant Technical Manager

27	Manual excavation	Open Excavation >1.5m	Excavations > 1.5m caving in may result in multiple fatalities	6	6	7	252	High	4	Daily check of the excavation by the appointed excavation supervisor and recorded in a register
28		Unauthorized entry	Unauthorized access to site may result in critical injury to people	6	6	7	252	High	4	Daily check of the excavation by the appointed excavation supervisor and recorded in a register
29		The use of Hand tools (picks, spades)	An employee using a pick could strike the employee in front/rear resulting in injury	6	6	7	252	High	4	The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of the site specific risk assessment
30				6	6	7	252	High	4	Proper PPE to be issued

31		Working in natural elements, sun, rain, glare & wind	Prolonged exposure to extreme high temperatures may result in heat stroke							
		Fast moving vehicles	Passing traffic could crash into employees working in an existing excavation	6	6	7	252	High	4	The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of the site specific risk assessment

32		Poor Ergonomics	Poor Ergonomics may result in muscular skeletal injuries	3	6	3	54	Possible Risk	2	The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of the site specific risk assessment
33	Mechanical Excavation	The use of Defective Plant	The use of defective plant	6	6	3	108	Sustantial Risk	3	The Construction Manager must verify that all plant utilized
			may result in accidents							on site has a recent service inspection register in place and signed off by the relevant technical manager

34		untrained operator	The use of an untrained operator may result in accidents	6	6	7	252	High	4	The Construction Manager must verify that the Operator is deemed competent to operate that specific plant and is medically fit The Safety Officer must take cognizance of the requirements of the Driven Machinery Regulations 2015
35		Public / Contractor interface	Public accessing the work area could result in injuries	6	6	3	108	Sustanti Risk	3	The Construction Supervisor must ensure all work are adequately barricaded / cordoned off to prevent member of the public from entering

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **EARTHWORKS**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
36	Layer works and Asphalt layer	Traffic accidents on site when transporting materials. Reversing of trucks and mobile plant Dust inhalation High temperature of product	Damage to property Respiratory failure Burns	6	6	3	108	Substantial Risk	3	Speed limit to be adhered to Enforced reverse alarms to be fitted Application of dust masks

37	Backfilling	<p>Suitable access and egress in and out of excavations deeper than 1 meter not provided.</p> <p>Collapse of excavation during backfilling operations</p>	<p>Injury to persons</p> <p>Injury to persons Fatality</p>	6	6	7	252	High	4	<p>Competent excavation supervisor to ensure that access is provided, employees informed of requirements</p> <p>Only authorized</p>
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DRIVING / OPERATING OF CONSTRUCTION VEHICLES AND MOBILE PLANT

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
37	Excavator	Unauthorized opr incompetent person operating the machine	Injury to persons, damage to property	6	6	7	252	High	4	Only competent operator to be appointed
38	Bomag roller	Unauthorized opr incompetent person operating the machine	Injury to persons, damage to property	6	6	7	252	High	4	Only competent operator to be appointed
39	Plate compactor	Operator working with plate compactor not trained, running over workers feet	Foot injury and bruises	6	6	7	252	High	4	Only competent operator to be appointed

40	Front end loader	Unauthorized operator incompetent person operating the machine	Injury to persons, damage to property	6	6	7	252	High	4	
41	Concrete breaker (Jack hammer)	Noise	Noise Induced hearing Loss	6	6	3	108	Substantial Risk	3	Employee to make use of SABS approved hearing protection, supervisor to ensure that the correct P.P.E is used. Task to be supervised by a competent supervisor

WORKPLACE ENVIRONMENT , HEALTH AND HYGIENE

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
42	Working in close proximity to moving machinery Exposure to noise	Noise	Noise Induced hearing Loss	6	6	3	108	Substantial Risk	3	Employee to make use of SABS approved hearing protection, supervisor to ensure that the correct P.P.E is used. Task to be supervised by a competent supervisor

43	Exposure to vibration	Vibration	White finger	6	6	3	108	Substantial Risk	3	Supervisor to rotate employees and allow for frequent breaks
44	Protection against dehydration and heat exhaustion	Dehydration/collapse	Health consequences to workers	6	6	3	108	Substantial Risk	3	Measures in place to prevent heat exhaustion in heat stress problem areas
45	Wet / cold condition	Affecting ability to work safely	Injury to workers	6	6	3	108	Substantial Risk	3	Provide rain wear / wellingtons where necessary Provide protection against the cold

46	Hazardous chemical substances	Contact with skin/ eyes Inhalation or indigestion	Skin irritation, burns or infections Could cause loss in eyesight	6	6	3	108	Substantial Risk	3	All substances identified and list available. MSD's Substances stored safely
47	Dust	Inhalation / respiratory problems	Respiratory failure	6	6	3	108	Substantial Risk	3	Application of dust masks

PUBLIC SAFETY

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
48	Public exposed to the nature of the construction activities	Emission of HCS, dust and noise	Health risk impact	6	6	3	108	Substantial Risk	3	Communication with neighboring business is critical. Health risk must be communicated to all employees Dust, noise generated out of the construction work must be managed

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **PUBLIC SAFETY, SECURITY MEASURES AND EMERGENCY PREPAREDNESS**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
49	Notices and signs	Appropriate signage not displayed	Person /s not aware of the danger Injury / serious injury	6	6	7	252	High	4	No unauthorized Entry General warning signs
50	Emergency Preparedness	No Emergency Plan in place	Person/s unprepared to respond to the emergency at hand	6	6	3	108	Substantial Risk	3	Emergency contact numbers displayed with designated person
51	Emergency Drill & Evacuation	No training No implementation Planning done	Person/s unprepared to respond to the emergency at hand	6	6	3	108	Substantial Risk	3	Adequate number of employees trained in the use of fire equipment

52	Development and implementation of an Emergency Management Plan	Failure to have a basic site-specific Emergency Management Plan	Failure to have a basic, site specific Emergency Management Plan may result in injury and damage to property	6	6	3	108	Substant Risk	3	The Construction Manager must ensure that a site specific Emergency Management Plan is developed for implementation
53		Workers not trained in the Emergency Plan	Workers not trained in the Emergency Plan may result in their inability to respond to Emergencies	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that those workers are adequately and regularly trained to respond to Emergencies.

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

54		Insufficient or no Emergency equipment or personnel	Insufficient or no Emergency equipment or personnel on site may result in Emergencies being critical	6	6	7	252	High	4	The Construction Manager must ensure that a suitable number of employees are appointed to the Emergency Team and that First Aid boxes, First Aiders, Fire Team members and any other equipment as identified during the risk assessment process is on site.
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WORK PROCESS CATEGORY: **COMMUNITY MANAGEMENT**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
55	Poor liaison with the CLO	Failure to adequately monitor and manage the multi faced social issues	Failure to manage social issues could result in violent protests and	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that a Community Liaison Officer (CLO) and project steering
			injury to employees							Committee is appointed to manage social issues

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

56		Roads blocked off due to community protest	Construction trucks and vehicles could crash into barricades resulting in damage to equipment or severe injuries	6	6	7	252	High	4	The Contraction Manager must ensure that close communication is kept with the local authorities and the appointed Community Liaison Officer to ensure that all personnel accessing the site are timeously alerted.
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WORK PROCESS CATEGORY: **SUB – CONTRACTOR MANAGEMENT**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
57	No proper management control	Failure to adequately assess Sub Contractors S.H.E Management System before work commences and at regular intervals	Failure to manage Sub Contractors may result in injury and	6	6	3	108	Substantial Risk	3	The Safety Officer must ensure that the appointed Sub Contractors S.H.E system is audited monthly and on site
			noncompliance to Legislation							activities supervised or monitored

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

58	Inadequate supervision	Inadequate Supervision may result in a high level of employee unsafe behavior	Injury / property damage	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that Sub Contractors have adequate competent Supervision on site at all times
59	Utilizing incompetent Sub-Contractors	Utilizing incompetent Sub Contractors may result in accidents		6	6	7	252	High	4	The Construction Manager must be reasonably satisfied that the Sub Contractors intended to be appointed have the necessary competencies and resources to carry out the work safely

60	Utilizing incompetent Sub-Contractors	Utilizing incompetent Sub Contractors may result in damage to the Environment		6	6	7	252	High	4	The Construction Manager must be reasonably satisfied that the Sub Contractors intended to be appointed have the necessary competencies and resources to carry out the work safely
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BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **CONSTRUCTION ACTIVITIES**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
61	Brickwork at manholes	Repetitive strain injuries	Poor ergonomics may result in muscular skeletal injuries	6	6	3	108	Substantial Risk	3	The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of this SWP.

62	Mixing mortar	Repetitive strain injuries	Loading / unloading material	3	6	3	54	Possible Risk	2	The Construction Manager must ensure that a SWP is developed implemented about safe lifting and loading procedures.
63	Clean, grout and seal joints	Pressure equipment dislodge from source	Injury to persons	6	6	7	252	High		

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

64	Removal of asphalt inter layer using conventional method	Poor Ergonomics	Poor Ergonomics may result in muscular skeletal injuries	3	6	3	54	Possible Risk	2	The Construction Manager must ensure that workers are trained in the risk of ergonomically injuries and methods to mitigate the risks
65	Clear and grub pavement areas	Poor Ergonomics	Poor Ergonomics may result in muscular skeletal injuries	3	6	3	54	Possible Risk	2	The construction Manager must ensure that workers are trained in the risk of ergonomically

										injuries and methods to mitigate the risks
66	Placing of, plastic pipes for underground services	Operating of TLB or Excavator in close proximity to workers and public vehicles	Critical injuries caused by TLB/ Excavator striking workers or TLB rolling over	6	6	7	252	High Risk	4	The Construction Manager must ensure that the TLB/ Excavator Operator utilize a banks man
67		Using TLB for lifting pipes or other material	Critical injuries caused by the TLB or Excavator striking workers or rolling over	6	6	7	252	High Risk	4	The Construction Manager must ensure that the TLB/ Excavator has been modified or designed to be used as lifting equipment and the load test certificates provided.

68		Incorrect use of defective hand tools	The incorrect and or defective hand tools could result in non-disabling/ first aid case i.e. the hand or eyes	6	6	3	108	Substantial Risk	3	The Construction Supervisors must ensure that all hand tools are inspected monthly and recorded in an applicable register with all defective hand tools removed from the site
69		Incorrect use of defective electrical tools	The incorrect and or defective hand tools could result in non-disabling/ first aid case i.e. the hand or eyes	6	6	3	108	Substantial Risk	3	The Construction Supervisors must ensure that all portable electrical tools are inspected monthly and recorded in an applicable register with all defective equipment removed from the site

70	Construction of drains	Poor Ergonomics	Poor Ergonomics may result in muscular	3	6	3	54	Possible Risk	2	The Construction Manager must ensure that workers are
			skeletal injuries							trained in the risk of ergonomically injuries and methods to mitigate the risks

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **CONSTRUCTION ACTIVITIES**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
71	Pouring Ready Mix concrete	Concrete truck tipping over	Concrete truck tipping over could result in serious injury to the operator and workers close by	6	6	7	252	High	4	The Construction Manager must ensure that safe access to the pouring platform is created before the truck arrives on the site

73	Excavation of trenches	Excavation collapse	Plant striking operatives Public falling into it	6	6	7	252	High	4	Suitable protection to be installed around the excavation
74	Use of hand tools	Defective tools	Injury to person	6	6	7	252	High	4	Visual check before tool is used. Tool to be stored if not in use
75	Waste removal	Falling materials grab striking persons/ property	Injury to persons /damage to property	6	6	7	252	High	4	Only use grab or excavator, when operator has clear view of surroundings. No person allowed within the working range of the grab or excavator

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **CONSTRUCTION ACTIVITIES**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
76	Relocation of water Sewer and Electrical cables	Disruption of essential services	Community effected	6	6	3	108	Substantial Risk	3	Notification of supply service being disrupted to be communicated well in advance

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: CONSTRUCTION ACTIVITIES

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
78	Kerb inlet	Work zone not demarcated	Persons/s struck by vehicle	6	6	7	252	High	4	Traffic Management Plan to be fully implemented
79	Cut off drains	Work zone not demarcated	Persons/s struck by vehicle	6	6	7	252	High	4	Traffic Management Plan to be fully implemented

80	Inlet and outlet structures	Work zone not demarcated	Persons/s struck by vehicle	6	6	7	252	High	4	Traffic Management Plan to be fully implemented
81	Applying tack	Contamination	Eye injury	6	6	7	252	High	4	Close supervision at all times
82	Disposal of waste	Contamination	illness	6	6	7	252	High	4	Close supervision at all times
83	Working with hot asphalt	Heat stress / Burns	Injury to persons	6	6	7	252	High	4	Close supervision at all times
84	Cleaning tools with solvent	Use of chemical substance	Injury to persons	6	6	7	252	High	4	Close supervision at all times

WORK PROCESS CATEGORY: **ROAD PATCHING**

RISK REF	ACTIVITY	POTENTIAL HAZARD	RISK	RISK EVALUATION			RISK SCORE ExPxS	RISK LEVEL	RISK RANK	CONTROL MEASURE
				E	P	S				
85	Use of jackhammer to open patch	Crushing and pinching Slip, trip, falls in loose material	Incompetent employee working the jackhammer can cause injury to body parts	6	6	3	108	Substantial Risk	3	Employees using the jackhammer need to be trained by competent person
86	Filling of the road patch with cold mix or approved mix	Manual handling Back injury	Poor work performance. Back sprains and strains	6	6	7	252	High	4	Handling of asphalt bags need to be done by two employees. Training must be done to employees concerning manual handling

87	Compaction with small ride on roller	vibration	Operator losing control and hitting employees	6	6	7	252	High	4	All employees need to be trained not to stand close to moving plant. They need to stand 20m cleared of the work zone
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8 REFERENCE

REFERENCE DOCUMENT

Occupational Health and Safety Act, Act 85 of 1993

Environmental Act

Construction Regulations 2014

120

1500

1200

700

1 in 50



TW336



TR104



TD4



**Site Specific Health and Safety Specification in terms of 2014
Construction Regulations 5.1(b)**


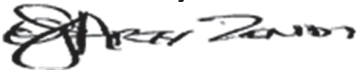
Document Title	Site Specific Health and Safety Specification
Client	eThekweni Municipality- Road Provision
Project Name	UPGRADING – GRAVEL TO SURFACE OF INYANGA CIRCLE, WARD 45, KWA MASHU
Contract Number	1R-33166
Revision	00
Date	27 October 2025
Internal Reference no.	SSHSS 452/10/2025
Compiled by (Safety officer)	Name and surname: Siziwe Chiliza  Signature: Date: 27/10/25
Reviewed by (Manager: Safety & Risk)	Name and surname: Arty Zondi  Signature: Date: 27/10/2025

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Annexure A. (Medical Certificate of Fitness) Annexure 3

1. DEFINITIONS

For the purpose of this Construction Health and Safety Specification, all definitions in the Occupational Health and Safety Act and Regulations, the abbreviations and the definitions given hereunder shall apply; where definitions may overlap, the most onerous requirement shall apply:

Acronym or Definition	Meaning
Agent	Refer to the Agent appointed by the Client to act on its behalf, and who is appointed in writing
CHSS	Refers to this document as the Construction Health and Safety Specification
Client	Refers to eThekweni Municipality
COIDA	Means Compensation for Occupational Injuries and Diseases Act 130 of 1993
Construction Site	Means the premises and grounds where construction work is being performed
Principal Contractor	Means an employer appointed by the Client to perform construction works
CR	Refers to the Construction Regulations of 2014
DSTI	Refer to a documented daily safe task instruction compiled and issued by a contractor and trained to all relevant employees
H&S	Refers to Health and Safety
Medical Certificate of Fitness	Means a valid medical certificate of fitness issued by an occupational medicine practitioner, such medical testing shall be relevant to the risks of the construction work on the construction site and shall conform to the Occupational Health and Safety Act and Regulations and to the requirement of this Health and Safety Specification
Method Statement	Refer to a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in the Risk Assessment
OHSA	Refer to the Occupational Health and Safety Act
Regulations	Refer to the Regulations stipulated in the OHSA
S	Refer to a section in the OHSA
SACPCMP	Means the South African Council for the Project and Construction Management Professions
Sub-Contractor	Means an employer appointed by the Principal Contractor
RRM	Road reserve maintenance work
SADC	Southern Africa Development Community

2. PROJECT DESCRIPTION

2.1 Description of Site and Access

Description of Works

Roadworks is to upgrade existing 368m length of gravel track / roadway to 5m hardening surface with possible sidewalk and further 90m length of gravel track to 3.5m width. This will involve earthworks, stormwater upgrade, Kerbing, asphalt surfacing, and retaining walls / gabions.

3. LIMITATIONS OF LIABILITY

The Client or its Agent shall not be responsible for any acts or omissions of any contractor which may directly or indirectly result from the application of the CHSS or any project specific version thereof.

All contractors must ensure that articles, work, equipment, machinery, plant and work practices are, at all times compliant to the legal requirements as these apply.

The Client or its Agent shall limit its responsibility to the application of the Construction Regulations Clients Requirements only.

The Principal Contractor shall enter into a Mandatory Agreement with the Client, as defined in Section 37(2) of the Occupational Health and Safety Act.

The Principal Contractor shall ensure that each contractor appointed by the Principal Contractor and each sub-contractor appointed by a contractor also into a Mandatory Agreement with the Principal Contractor, as defined in Section 37(2) of the Occupational Health and Safety Act. These agreements shall be included in the Principal Contractor's H&S File on site and be valid for the duration of the contractors' work on the construction site.

4. PURPOSE OF THE CONSTRUCTION H&S SPECIFICATION

This document defines the minimum management requirement that is to be implemented by the Principal Contractor/Contractor for the management of Health and Safety on any eThekweni Municipality project.

The aim of this document is to present the health and safety aspects that need to be controlled and managed on the project.

This Health and Safety specification identifies and encompasses the working behaviours and safe work practices that are expected of all employees, Vendors and Contractors, Sub-Contractors and Visitors, engaged on construction site.

Providing a guideline to comply with best Health & Safety practices and the Occupational Health and Safety Act 85/1993 as amended, including reference to applicable legislative requirement.

5. PROJECT HEALTH AND SAFETY COST

The Client must ensure that potential Principal Contractor submitting tenders have made adequate provision for the cost of health and safety measures.

The Principal Contractor shall allow in their cost provision for complying with the requirements of this CHSS; resources for the following H&S controls shall be in place.

	H&S cost item	Description
1.	Construction Safety Officer.	Construction safety officer is required to ensure that the health and safety plan is implemented on site.
2.	Medical certificate of fitness.	Medical examination of all employees and certification of fitness by an Occupational Medicine Practitioner
3.	Personal Protective Equipment.	PPE to be provided as per risk exposure, including but not limited to : respiratory, adapted hearing protection, adapted hand protection, adapted eye and head protection.
4.	Public protection and barricading.	To reduce risk exposure to the employees and members of the public.
5.	Training and competency.	Occupational Health and Safety Training in accordance with the skills matrix included in the approved H&S Plan.
6.	Dust mitigation.	To reduce dust exposure to the employees and the public
7.	Employee facilities.	Refer to the Facilities Regulations (drinking water, change facility, personal lockers, and wash facilities, eating facilities.
8.	First Aiders.	Standard first aid training.
9.	Other.	Items not indicated in the Specification

6. SCOPE AND DESCRIPTION OF WORK

Scope of Works

List of activities to be undertaken

- Site Clearance, General Clearance of the area of works.
- Relocation of services and other works
- Concrete Works
- Earthworks and Excavation for Roadworks and
- Drainage
- Stormwater
- Kerbing and Channelling
- Asphalt Surfacing

7. COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT

The Principal Contractor, each contractor and each sub-contractor shall submit proof of Good Standing with COIDA Commissioner or a Mutual Association licensed in terms of Section 30 of COIDA, prior to starting any work on site.

A copy of the Letter of Good Standing with COIDA Commissioner must be included in the H&S Plan of each contractor working on the site and must remain updated for the duration of the construction work.

8. APPLICATION FOR CONSTRUCTION WORK PERMIT

The Principal Contractor shall assist the Client in compiling the evidence required by the Department of Labor for the issuing of the Construction Work Permit.

The Principal Contractor shall ensure that the H&S Plan presented for approvals includes:

- Evidence that the Principal Contractor made adequate provision for the cost of H&S measures
- Evidence that the Principal Contractor has the necessary competencies and resources to carry out the construction work safely.
- A copy of the Letter of appointment of the Construction Manager in terms of CR 8(1) + proof of his qualification, competence and registration where applicable.
- Proof of the registration of the Principal Contractors safety officer with the SACPCMP.

The Principal Contractor shall display the work permit number at the main site entrance. This display must be conspicuous to the satisfaction of the Department of Labor. The permit must be noticeable.

The construction works can only commence once the construction work permit is issued by the Department of Labor.

9. NOTIFICATION OF CONSTRUCTION WORK

The Principal Contractor must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2 if the intended construction work will—

Include excavation work;

Include working at a height where there is risk of falling;

Include the demolition of a structure; or

Include the use of explosives to perform construction work.

A contractor who intends to carry out construction work that involves construction of a single storey dwelling for a client who is going to reside in such dwelling upon completion, must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2

10. MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK

10.1 Construction Manager

The Principal Contractor shall appoint a full time competent person as the construction manager with the duty of managing all construction on the site including the duty of ensuring occupational health and safety compliance.

The Construction Manager must demonstrate competency in relation to work being performed and the ability to manage construction work which may include making all statutory appointments in terms of health and safety.

10.2. Construction Safety Officer

The Principal Contractor shall appoint a competent Construction Safety Officer for the construction work. The Construction Safety Officer shall be full/part time on the construction site for this project.

The Safety Officer shall be registered with the South African Council for the Projects and Construction Management Professions. Proof of competence and registration of the appointed Construction Safety Officer must be included in the H&S Plan.

10.3. Construction Supervisor

A Construction Manager must in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor contemplated in subregulation (7), and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of any such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties in terms of this regulation.

11. PRINCIPAL CONTRACTOR'S HEALTH AND SAFETY PLAN

The Principal Contractor shall submit a suitable, sufficiently documented and coherent specific health and safety plan based on the Client documented Health and Safety Specification. The health and safety plan shall include but not limited to the following

- Introduction.
- Project Details.
- Full Description of the works.
- Objectives and Targets for the Project.
- Implementation of the Client Health and Safety Specification.
- Management of construction and supervision.
- Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA).
- Notification of construction work.
- Sub-Contractor and Supplier Management.
- Hazard Identification, Risk Assessment & Risk Control.
- Monitoring and review plan.

- Written Safe Working Procedures.
- Excavation method statements.
- Working at height on the existing structure.
- Water Environments.
- Incident Management & First Aid.
- Emergency Evacuation Plan/Procedures.
- Fire Prevention & Protection on Construction Site.
- Public/Pedestrian Safety.
- PPE Provision and Maintenance on Construction Site.
- Health & Safety Signage on Construction Site.
- Construction Vehicles and Mobile Plants.
- Use and Temporary Storage of Flammable Liquids on Construction Site
- Hand & Electrical Tool Management.
- Construction Employees Facilities.
- Health & Safety Policies.
- Health and safety training & competencies.
- Housekeeping and general safeguarding on construction Site.
- Hazardous chemicals.
- Site barricading.
- Traffic accommodation on site.
- Induction.
- Medicals certificates of fitness.
- Site Security.
- Stacking and storage on construction site.
- Heat stress.
- Transportation of employees to different sites.
- Provision of drinking water.
- Working on a stepladder during trimming of trees.
- Manual handling of heavy objects.
- Refuelling, maintenance of brush cutters on site.
- Removal of waste on construction site.
- Internal and external Audit.
- Site inspection and keeping of records/registers.
- Toolbox talks.

12. HAZARD IDENTIFICATION AND RISK ASSESSMENT

The Principal Contractor shall before commencement of any construction and during such construction works have risk assessments performed by appointed competent person in writing which forms part of the health and safety plan to be applied.

The provisions of Regulation 9 of the Construction Regulations shall be followed in every detail.

13. HEALTH AND SAFETY FILE

The Client must discuss and negotiate with a Principal Contractor the content of the Health and Safety Plan and thereafter finally approve the Health and Safety plan for implementation. The recommended Health and Safety file shall include the following:

- Copy of Construction Work Permit (Where applicable)
- Notification of Construction Work
- Client Health & Safety Specification
- SHE Policy
- Principal Contractor Health & Safety Plan
- Updated letter of good standing with Commissioner
- Section 37.2 Mandatory Agreement
- Contractor appointment letter in terms of CR 5.1(k)
- Organogram as per appointments
- Legal appointment letters and competencies (Construction Manager, Construction Supervisor, Traffic/Construction Safety Officer, Risk assessor, Incident Investigator, First aider, Fire equipment Inspector, Construction Vehicle and Mobile Plant, Excavation Supervisor and Health and safety representative) etc.
- Risk Assessments as per scope of work
- Written Safe Working Procedures as per scope of work
- Applicable Inspection Registers
- Incident/Accident Management Procedure/Policy, Register and relevant forms (Annexure 1, Wcl2) etc.
- Award letter from SCM
- Latest copy of OHS Act and other relevant regulations
-
- Health and Safety Induction programme
- Site Emergency Evacuation Plan
- Key Personnel contact numbers
- Site Safety Rules
- Medical Records – Medical Fitness Certificate
- Tool Box Talks Programme
- Material Safety Data Sheets and Hazardous Chemical Register.
- First Aid box and competent first aider
- Traffic management plan
- Subcontractor appointments and the subcontractors list.
- Site SHE internal and external audit records.
- Personal protective equipment issuing and maintenance records.

14. CLOSE-OUT CONSOLIDATED HEALTH AND SAFETY FILE

The Principal Contractor shall compile a consolidated H&S file and hand over to the Business Unit, OHS Unit will conduct a project close out using the appropriate checklist before the completion of the project.

15. INDUCTION AND HEALTH AND SAFETY AWARENESS

The Principal Contractor shall ensure that all employees have gone through the induction training before commencing duties on site.

The Principal Contractor must ensure that all visitors to the construction undergo health and safety induction pertaining hazards prevalent on the site and ensure that visitors have

appropriate PPE. The Principal Contractor must at all times on his or her construction site keep records of health and safety induction training.

15.1 Health and Safety Training

The Principal Contractor shall ensure that employees are trained on health and safety measures this shall include but not limited to:

- Written Safe Working Procedures
- Risk Assessments
- Health and Safety Plan and other policies
- Emergency Management Plan
- Incident management procedures
- Environmental management procedures
- Induction
- Toolbox Talks
- MSDS
- Traffic management plan

16. INCIDENTS MANAGEMENT & FIRST AID

All incidents and accidents as per Section of the Act must be reported, recorded and investigated as per General Administration Regulation 8 & 9

Where a fatality or permanent disabling injury or incident occurs on the Construction site, the Client must ensure that the Principal Contractor provides the Provincial Director with a report contemplated in Section 24 of the Act and the report includes the measures that the Principal Contractor intends to implement to ensure a safe construction site.

17. HEALTH AND SAFETY AUDITS

The Client must ensure that periodic health and safety audits are conducted at intervals mutually agreed upon between the Principal Contractor and the Client at least every 30 days, the copy of the health and safety audit report must be provided to the Principal Contractor within seven days after the audit.

18. FIRE PRECAUTIONS ON CONSTRUCTION SITE

The Principal Contractor shall provide suitable fire extinguishers which shall be serviced regularly in accordance with the manufactures recommendations.

Safety signage shall be prominently displayed in all areas where fire extinguishers are located. The Principal Contractor shall arrange for training of the relevant personnel, in the use of fire extinguishers.

The provisions of Regulation 29 of the Construction Regulations as well as Regulation 9 of Environmental Regulation for Workplaces shall be followed in every detail.

19. ELECTRICAL INSTALLATIONS AND MACHINERY ON CONSTRUCTION SITE.

The Principal Contractor shall designate a competent electrician in writing who shall control all electrical installations.

All temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site.

All Electrical machinery is inspected by the authorized operator or user on daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

The provisions of Regulation 5, 6 & 9 of the Electrical Installation Regulations shall be followed in every detail.

20. PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

The Principal Contractor shall ensure that every employee is issued with, and wears SANS-approved P.P.E. as per the conducted risk assessment.

Failure to use protective equipment as per the risk assessment shall require disciplinary intervention and this process shall be documented in the induction.

No employer shall in respect of anything which he is in terms of this Act required to provide or to do in the interest of health or safety of an employee make any deductions from any employee's remuneration or require or permit any employee to make any payment to him or to any other person.

The provisions of Regulation 2 of the General Safety Regulations shall be followed in every detail.

21. OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

The Principal Contractor shall erect and maintain quality safety signage

The signage shall include but is not limited to:

- Traffic control signs.
- Emergency telephone number(s)
- PPE to be worn at the particular site
- When falling objects may occur, relevant barricading and warning signs must be erected

22. DUTIES OF PRINCIPAL CONTRACTORS AND CONTRACTORS

Contractors and sub-contractors must be given a copy of the H&S specification and any additional specification issued by the Client and shall comply with these specifications integrally. All employers working on the site shall conform to the standard in the CHSS. All the duties of the Principal Contractor in this CHSS equally apply, in full, to contractors of such Principal Contractor and to sub-contractors of such contractors.

The Principal Contractor shall ensure that the comprehensive and updated list of all the contractors and sub-contractors on site includes:

- A reference to the agreements between the parties, including all contractors Section 37(2) agreements with the Principal Contractor
- The type of work being done
- The date of the approval of the H&S Plan
- The date of expiry of the COIDA certificate of good standing
- Appointments and competencies.
- Medical certification of employees.
- The date of the last monthly audit.

The provisions of Regulation 7 of the Construction Regulations shall be followed in every detail.

23. EXCAVATION WORK

- The Principal Contractor must ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose.
- The Principal Contractor shall take cognisance of the geotechnical study pertaining to the conditions of the construction site and must plan all excavation work in accordance with the recommendations of the professional engineer.
- The Principal Contractor must ensure that every excavation, including all bracing and shoring, is inspected daily, prior to the commencement of each shift and that no person enters the excavation or works in a risk zone until the excavation is assessed and declared safe.
- All excavations must be left open for the minimum of time required and those that are left open on the site must be protected by a barrier or a fence of at least one meter in height as close to the excavation as is practicable. The protective barrier or fence must adequately prevent persons from falling into the excavation and barrier taping is not sufficient for this purpose
- Excavation shoring and bracing, if required shall be designed by a designer appointed in writing who shall inspect and approve the installed shoring and bracing
- Where persons work, inspect or test excavations, warning signs must be in place next to an excavation

The provisions of Regulation 13 of the Construction Regulations shall be followed in every detail.

24. PUBLIC HEALTH AND SAFETY

The site shall at all times be secured to prevent the unauthorized access of persons to construction risk areas.

Appropriate health and safety signage shall be posted and access control to site must be exercised via a single access point.

All members entering the site must indicate in what capacity they are visiting the site.

The access point must be designed and constructed to allow for temporary parking, entry of construction vehicles, entry of personnel transport vehicles and entry of individual workers and other persons.

The principal Contractor shall ensure that each person visiting the site shall be inducted to the site and such abridged induction shall outline the hazards from on-site activities and the precautions to be observed to avoid or minimize those risks

Visitors must only enter when accompanied by a responsible person designated by the Principal Contractor.

25. CONSTRUCTION EMPLOYEES FACILITIES

The Principal Contractor shall provide at or within reasonable access of every construction site, the following clean, hygienic and maintained facilities:

- (a) Shower facilities after consultation with the employees or employees representatives, or at least one shower facility for every 15 persons;
- (b) at least one sanitary facility for each sex and for every 30 workers;
- (c) changing facilities for each sex; and
- (d) sheltered eating areas.

The provisions of Regulation 2, 3, 4, 6, 7, 9 of the Facilities Regulations shall be followed in every detail.

26. STORAGE AND USE OF FLAMMABLE LIQUIDS

No flammable substances must be stored on site unless these are stored in a flammable store or cabinet approved by the Municipal Chief Fire Officer, no other materials shall be stored in the flammable store or cabinet

Where required the H&S Plan shall include a method statement detailing the safe use, storage, decanting and spill controls for all flammable liquids used and stored on site.

The provisions of Regulation 25 of the Construction Regulations shall be followed in every detail.

27. HAZARDOUS CHEMICAL SUBSTANCE

With respect to hazardous chemical substances used, the contractor shall ensure that:

- All MSDS are included in the H&S File
- A HCS risk assessment is included in the H&S Plan
- The safe use, storage, emergency procedures and safe disposal of hazardous substances are addressed in a method statement(s) included in the H&S Plan.
- Proof of competency and signed letters of appointment of the person responsible for chemical handling is included in the H&S File.

Any hazardous chemical substance intended to be applied on site during the project (i.e. after approval of the H&S Plan) shall be subject to an issue-based risk assessment and method statement which must be presented to the Client Agent prior to the substance being introduced on site.

The provisions of Regulation 3, 5, 7, 8, 9, 9A, 10, 11, 14, 15 of the Hazardous Chemical Substances Regulations shall be followed in every detail.

28. HOUSEKEEPING AND GENERAL SAFE GUARDING ON CONSTRUCTION SITE

The Principal Contractor shall appoint a person responsible for general housekeeping and stacking and storage of materials and equipment on the entire site.

The provisions of Regulation 27 of the Construction Regulations shall be followed in every detail.

29. CONSTRUCTION MEDICALS

A Principal Contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an Occupational Health Practitioner in the form of Annexure 3.

30. STACKING AND STORAGE ON CONSTRUCTION SITE

A Principal Contractor must, in addition to compliance with the provisions for the stacking of articles in the General Safety Regulations, 2003, ensure that—

A competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;

Adequate storage areas are provided;

There are demarcated storage areas; and storage areas are kept neat and under control.

31. INDUCTION AND TOOLBOX PROGRAMME

No contractor may allow or permit any employee or person to enter any site, unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A contractor must ensure that all visitors to a construction site undergo health and safety induction pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.

A contractor must at all times keep on his or her construction site records of the health and safety induction training contemplated in subregulation (6) and such records must be made available on request to an inspector, the client, the client's agent or the principal contractor;.

The Principal Contractor must ensure that the toolbox talks are conducted on weekly basis and the training records kept on the safety file

32. CONTINGENCY/EMERGENCY PLAN, PROCEDURE AND CONTACT NUMBERS

Principal Contractor shall prepare an emergency procedure which will address any emergency situation that is likely to occur on a project site.

The Emergency Preparedness Plan deals with the emergency situation as fast and efficiently as possible, to minimise loss of life, the protection of property and the maintenance of services

necessary for the wellbeing of employees. The plan shall include valid local emergency contact numbers and must be easily accessible.

33. TRAFFIC MANAGEMENT PLAN.

PRIMARY RESPONSIBILITIES

PRINCIPAL CONTRACTOR

The following are the Principal Contractor's primary responsibilities for traffic accommodation

- Develop a traffic accommodation strategy and submit it for evaluation prior to commencement of work.
- This will be sent to the client for approval
- Included to the traffic management strategy must be drawings of how traffic will be managed
- Implement traffic accommodation measures in accordance with the traffic accommodation strategy.
- Ensure that all sub-contractors comply with the traffic accommodation strategy.
- Monitor the work zone to ensure that the traffic accommodation strategy is effective for both day and night time conditions during period of construction.
- Maintain all traffic control devices.
- Modify the traffic accommodation strategy if necessary. Take appropriate and timely action to correct any deficiencies by the contractor, in case of imminent danger, corrective action must immediate.
- All Traffic accommodation contractors shall have at least one First aider (Level 1) for each section of work.
- If the traffic Safety Officer have got the necessary first aid competency it will be accepted.
- It is also a recommendation and good practice that a Fire fighter be appointed for the site.
- Report all third party vehicle accidents immediately to the Client. Provide a copy of the completed accident report within 48 hours of the occurrence.
- On construction projects, submit completed daily reports of the traffic accommodation details (location, date, time, signs, barricades) on weekly basis.
- On construction projects attend meetings to address any concerns regarding the performance of the traffic accommodation strategy.
- Provide a knowledgeable individual at the work zone to maintain the traffic control devices and address any traffic accommodation issues which arises, the contractor must identify the individual at the pre-construction meeting.
- All traffic controllers must have the necessary competency to be able to control traffic.

The provisions of Southern Africa Development Community (SADC) Road Traffic Signs Manual Volume 2: Chapter 13 and eThekweni Transport Authority Road works signing shall be followed in every detail.

N.B: For more information please do not hesitate to contact Siziwe Kweyama on 076 253 3339 or 031 322 2844 or email Siziwe.kweyama@durban.gov.za

ANNEXURE 3

OCCUPATIONAL HEALTH AND SAFETY ACT, 85 of 1993

Construction Regulations. 2014

Medical Certificate of Fitness

Name of Employee ID Number Co Number

	*Possible Exposure																* Job specific Requirement										* Protective Equipment				
	e.g. noise, heat, fall, risk, confined space, etc.																e.g. Operating Mobile Crane, Digging Trenches, Erecting formwork & Support work, etc.										e.g. Dust respirator(Light Duty) Welding Gloves, etc.				
*Occupation e.g. General worker , Welder, Bricklayer, Steel fixer, Mobile Crane, Operator, etc.																															

*** The employer to complete the information in the spaces marked with an before sending the employee for a medical examination**

Declaration by the Medical Examiner:
 I certify that I have, by examination and testing, using the above criteria specified by the employer, satisfied myself that the abovementioned employee is fit to perform the duties by the employer in the matrix above.
 Occupational Medicine Practitioner/ Occupational Health Nursing Practitioner: (Please Print Name).....

Signature Practice Number Date

Address

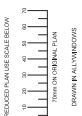


REPUBLIC OF SOUTH AFRICA
MUNICIPAL ENGINEERING UNIT
ROAD DESIGN DEPARTMENT




PLAN DESCRIPTION	DRAWING NO.
CONTINUED FROM	
CONTAINED ON	
GRAPHIC SYSTEMS	
DATE OF REVISION	
SECTION	
SURVEY LAYOUT	

REDUCED SCALE AS SHOWN

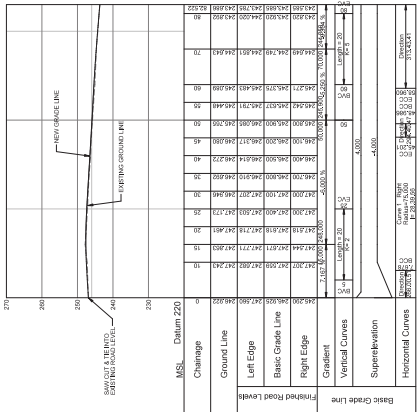
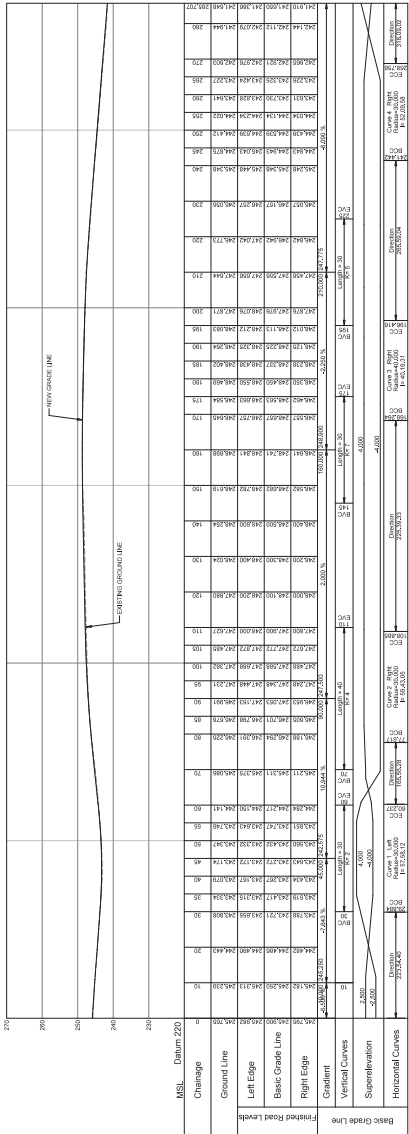


10m ON DRAWING



DRAWN BY ALL VENTURES

INYANGA CIRCLE - (CH0,000 TO CH285,707)



UCHAMDE AVENUE - (CH0,000 TO CH285,707)

Revision	Date	Description
1	2021	Initial Design
2	2021	Revised Design
3	2021	Final Design
4	2021	As Built

1R-33166
INYANGA CIRCLE
WARD 45
GRAVEL TO SURFACE

LONGITUDINAL SECTIONS
(CH0,000 TO CH285,707)
UCHAMDE AVENUE
(CH0,000 TO CH285,707)

Scale	Vertical 1:1000
Horizontal 1:500	
Date	23 OCTOBER 2021
Drawn by	U. M. D. L. E.
Checked by	R. G. V. M. D. L. E.
Approved by	U. M. D. L. E.

Project No.	1R-33166
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Drawn by	U. M. D. L. E.
Checked by	R. G. V. M. D. L. E.
Approved by	U. M. D. L. E.

FOR TENDER PURPOSES ONLY

New Road Area	Unsurfaced to Surface
AS BUILT	

Drawn by	U. M. D. L. E.
Checked by	R. G. V. M. D. L. E.
Approved by	U. M. D. L. E.



CONCRETE AND
ROAD PAVEMENT DEPARTMENT

PLAN DESCRIPTION	DRAWING NO.
CONTINUED FROM	
CONTINUED ON	
CHISEL SETTINGS	
SECTION	
SURVEY LAYOUT	



1:100

DRAWN BY ALL VEDRICH



NORTH

POINT

UNDERGROUND SERVICE CHECKED

DATE

BY

1R-33166

PROJECT NO.

INYANGA CIRCLE

WARD 45

GRAVEL TO SURFACE

CROSS SECTIONS

(CH4000 TO CH285707)

DATE

23 OCTOBER 2024

BY

R. KUDOMBER

DATE

24 OCT

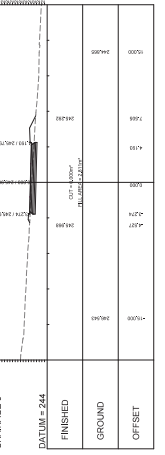
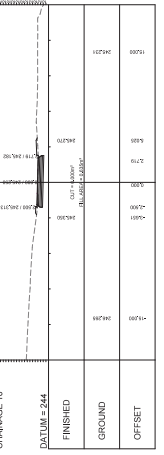
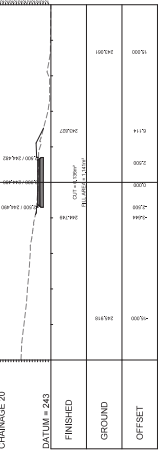
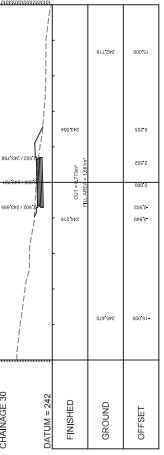
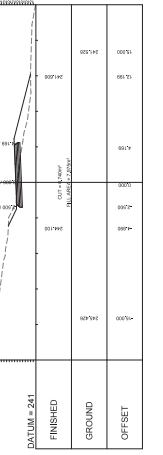
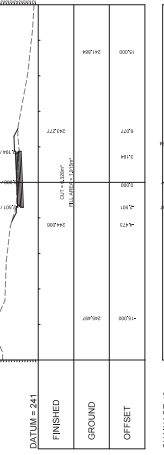
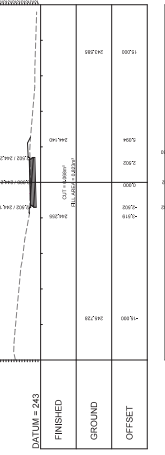
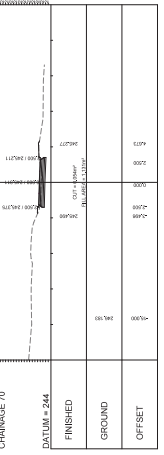
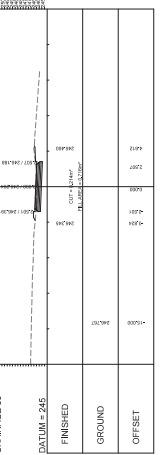
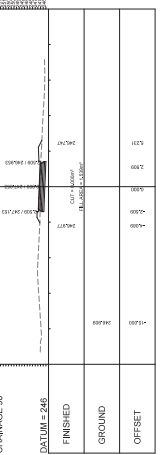
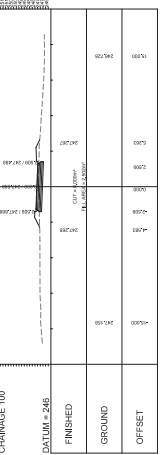
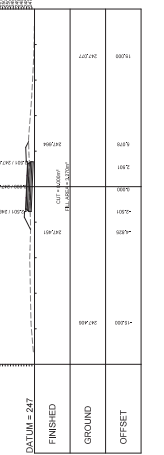
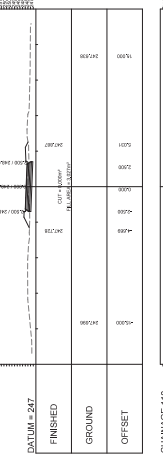
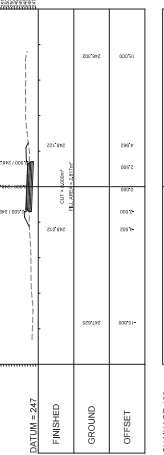
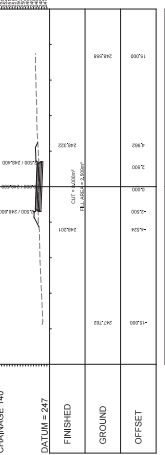
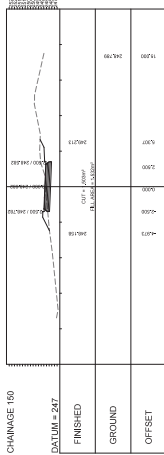
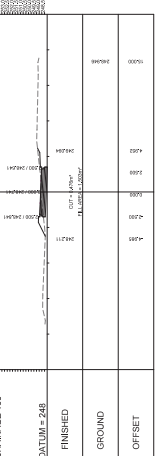
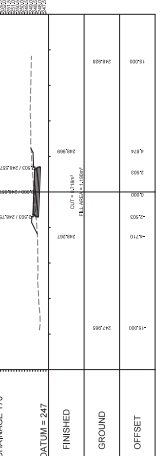
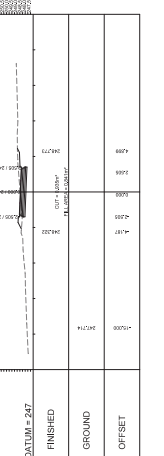
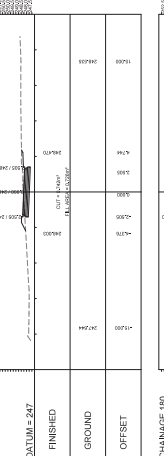
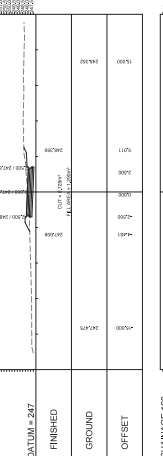
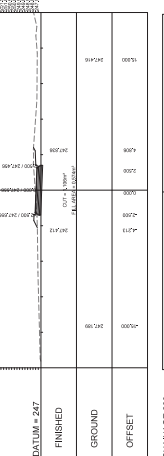
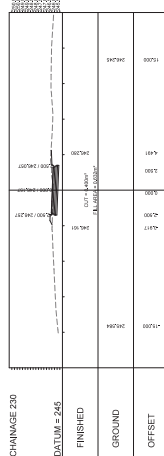
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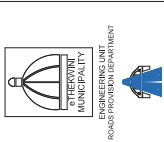
FOR TENDER PURPOSES ONLY

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Unimproved to Surface

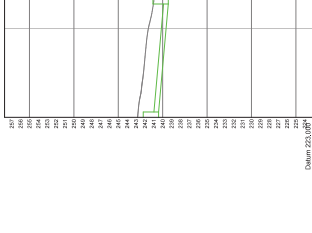
AS BUILT

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Page 03



PLAN DESCRIPTION	DRAWING NO.
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