



- GENERAL NOTES
1. All dimensions are in millimeters unless otherwise stated.
 2. Dimensions are to be READ and not scaled off from the drawing.
 3. Contractor(s) are to confirm all dimensions on site prior to commencement of construction and any discrepancies are to be reported to the Project Architect.
- ALL FIRE PROTECTION INSTALLATION AND SIGNAGE WILL BE IN ACCORDANCE TO SANS 10400 PART T, W AND A
ALL AUDIBLE AND VISUAL ALARMS, SMOKE/HEAT DETECTORS/SENSORS AND PUBLIC/EMERGENCY ADDRESSABLE SYSTEMS WILL IN ACCORDANCE TO SANS 10139
1. Fire Extinguishers – Installation of Fire Extinguishers (FE) will be in accordance with SANS 10400-T: 2011 Point 4.37
 2. Fire Hose Reels – Installation of Fire Hose Reels (FHR) will be in accordance with SANS 10400-T: 2011 Point 4.34
 - 2.1. All Fire Hose Reels to be equipped with Pressure Gauges
 - 2.2. All Fire Hose Reels to be equipped with a Shut Off Valve prior to the Pressure Gauges
 - 2.3. All Fire Hose Reels should be uniformly mounted no more than 1200mm and no less than 900mm above the surface at the lowest point of the Fire Hose Feed Drums.
 3. Fire Hydrants – Installation of Fire Hydrants (FHyd) will be in accordance with SANS 10400-T: 2011 Point 4.35
 - 3.1. All Fire Hydrants will be equipped with Pressure Gauges
 - 3.2. All Fire Hydrants should be mounted on a concrete anchor
 - 3.3. All Fire Hydrants should be uniformly mounted no more than 1200mm and no less than 900mm above the surface.
 4. Fire Water Supply Network - The Fire Water Supply Network shall be installed in accordance to SANS 10252-1: 2012.
 - 4.1 The fire water supply network shall be independent of any other water supply network. The fire water supply network shall have no isolation valves in between the network except for valves located at the main water meter and at the Discharge Side of the Fire Protection Back-Up Pump Set.
 - 4.2. All Pipe jointing connections and systems should be for PN16 HDPE Pipes
 - 4.3. Fire Hydrant and Fire Hose reel Piping above surface or wall mounted will be galvanized steel equivalent to the inlet diameter of the Fire Hydrant or Fire Hose Reel.
 5. Smoke Detectors and Alarms - Installation of Smoke/Heat Detectors will be in accordance to SANS 10139 Part 1 Category L1 and L2
 - 5.1. Alarms will be Audible and Visual where applicable and highlighted in specific buildings.
 - 5.2. An addressable system will be installed along with a fire control panel in the main administration building and in other buildings where required and shown on the drawings
 - 5.3. Fire Detection, Alarms and Addressable Systems will be linked via communication cables neatly hidden away from easy access and in fire proof conducting and will run along areas least likely to be affected by fires
 6. Signage – All Fire Protection Equipment, Warning and Escape Routes Signage shall be in compliance with SANS 10400-T: 2011 Point 4.29, and SANS 1186-1, 3, 5 and SANS 1464-22
 7. Escape Routes - Escape routes will be mapped and calculated in accordance to SANS 10400-T Point 4.16, 4.17, 4.20 and 4.21
 8. Emergency lighting – Where applicable all required emergency lighting shall comply with SANS 10400-T: 2011 Point 4.30

FIRE PROTECTION DESIGN

Total Stand Area: 40,177m²

Total Built Area: 9,927m²

Building Classification: H3 - Multiple Domestic Residency

Hydrant Requirements: 1 per 1000m²

Maximum Spacing: 1 per 90m

Operating Parameters

- Two (2) Hydrants operating simultaneously
- Residual Water to be used for Fire Hose Reels
- Flow rate: 20L/s per Hydrant
- Pressure: 300kPa

UNIT SUMMARY				
	No. of Blocks	Total No. of Units on Site	Area m ² / Unit	Area m ² / Block
ERF 142				
Type A - Single bed(Single Storey)	13	26	39	78
Type B - 2 Bed(Double Storey)	14	56	46	124
Type C - 2 Bed(Three Storey)	15	90	46	124
Type D - Single Bed(Three Storey)	3	18	39	110
Total		190		
ERF 146				
Type A - Single bed(Single Storey)	0	0	39	78
Type B - 2 Bed(Double Storey)	3	12	46	124
Type C - 2 Bed(Three Storey)	8	48	46	124
Type D - Single Bed(Three Storey)	11	66	39	110
Total		126		
ERF 147				
Type A - Single bed(Single Storey)	5	10	39	78
Type B - 2 Bed(Double Storey)	3	12	46	124
Type C - 2 Bed(Three Storey)	5	30	46	124
Type D - Single Bed(Three Storey)	0	0	39	110
Total		52		
ERF 148				
Type A - Single bed(Single Storey)	0	0	39	78
Type B - 2 Bed(Double Storey)	6	24	46	124
Type C - 2 Bed(Three Storey)	6	36	46	124
Type D - Single Bed(Three Storey)	4	24	39	110
Total		84		

DRAWING STATUS:
DETAILED DESIGN

<table><tr><td>00</td><td>AES-COGHSTA-TCRU-C301-ERF 142 WATER NETWORK LAYOUT</td><td></td><td></td><td></td></tr><tr><td>00</td><td>AES-COGHSTA-TCRU-C302-ERF 146 WATER NETWORK LAYOUT</td><td></td><td></td><td></td></tr><tr><td>00</td><td>AES-COGHSTA-TCRU-C303</td><td></td><td></td><td></td></tr><tr><td>00</td><td>AES-COGHSTA-TCRU-C304-ERF 142 WATER LONGSECTIONS</td><td></td><td></td><td></td></tr><tr><td>00</td><td>AES-COGHSTA-TCRU-C305-ERF 146 WATER LONGSECTIONS</td><td></td><td></td><td></td></tr><tr><td>REV</td><td>DRAWINGS TITLE</td><td></td><td></td><td></td></tr><tr><td></td><td>REFERENCE DRAWINGS</td><td></td><td></td><td></td></tr></table>	00	AES-COGHSTA-TCRU-C301-ERF 142 WATER NETWORK LAYOUT				00	AES-COGHSTA-TCRU-C302-ERF 146 WATER NETWORK LAYOUT				00	AES-COGHSTA-TCRU-C303				00	AES-COGHSTA-TCRU-C304-ERF 142 WATER LONGSECTIONS				00	AES-COGHSTA-TCRU-C305-ERF 146 WATER LONGSECTIONS				REV	DRAWINGS TITLE					REFERENCE DRAWINGS				<table><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>REV</td><td>DESCRIPTION</td><td>DATE</td><td>CHK</td><td>APP</td></tr><tr><td></td><td>REVISIONS</td><td></td><td></td><td></td></tr></table>																										REV	DESCRIPTION	DATE	CHK	APP		REVISIONS				<p>PROFESSIONAL SERVICE PROVIDER</p> <p>AES consulting</p> <p>P O Box 15439 Fauna Park, 0787 Tel: 015 291 3305 Fax: 086 218 8529 email: admin@aesconsulting.co.za</p>	<table><tr><td>DESIGNED</td><td>NAME</td><td>PR. NUMBER</td><td>SIGNATURE</td><td>DATE</td></tr><tr><td>DRAWN</td><td>GEORGE T VALENGA</td><td></td><td></td><td>20-05-2021</td></tr><tr><td>CHECKED</td><td>GEORGE T VALENGA</td><td></td><td></td><td>25-05-2021</td></tr><tr><td>PROJ. ENGINEER</td><td>FANUEL MURWANA</td><td></td><td></td><td>29-05-2021</td></tr><tr><td>PROJ. MANAGER</td><td></td><td></td><td></td><td></td></tr><tr><td>APPROVED</td><td></td><td></td><td></td><td></td></tr></table>	DESIGNED	NAME	PR. NUMBER	SIGNATURE	DATE	DRAWN	GEORGE T VALENGA			20-05-2021	CHECKED	GEORGE T VALENGA			25-05-2021	PROJ. ENGINEER	FANUEL MURWANA			29-05-2021	PROJ. MANAGER					APPROVED					<p>CLIENT APPROVAL</p> <table><tr><td>TITLE</td><td>INITIAL</td><td>SIGNATURE</td><td>DATE</td></tr><tr><td>GENERAL MANAGER</td><td></td><td></td><td></td></tr><tr><td>PROJECT MANAGER</td><td></td><td></td><td></td></tr><tr><td>PROJECT ENGINEER</td><td></td><td></td><td></td></tr></table>	TITLE	INITIAL	SIGNATURE	DATE	GENERAL MANAGER				PROJECT MANAGER				PROJECT ENGINEER				<p>CLIENT</p> <p>LIMPOPO PROVINCIAL GOVERNMENT HUMAN SETTLEMENTS & TRADITIONAL AFFAIRS</p> <p>CoGHSTA 20 Rabe Street Polokwane 0699</p> <p>Tel: 015 294 2203 Fax: 015 295 1931</p>	<p>PROJECT / DRAWING TITLE</p> <p>TALANA COMMUNITY RESIDENTIAL UNITS</p> <p>TALANA BULK WATER SUPPLY LINE</p>	<table><tr><td>SCALE:</td><td>SHT. No. OF</td></tr><tr><td>NOT TO SCALE</td><td></td></tr><tr><td>CONTRACT No:</td><td>PROJECT No:</td></tr><tr><td>-</td><td>-</td></tr><tr><td>DRAWING No:</td><td></td></tr><tr><td>AES-COGHSTA-TCRU-C308</td><td></td></tr></table>	SCALE:	SHT. No. OF	NOT TO SCALE		CONTRACT No:	PROJECT No:	-	-	DRAWING No:		AES-COGHSTA-TCRU-C308	
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