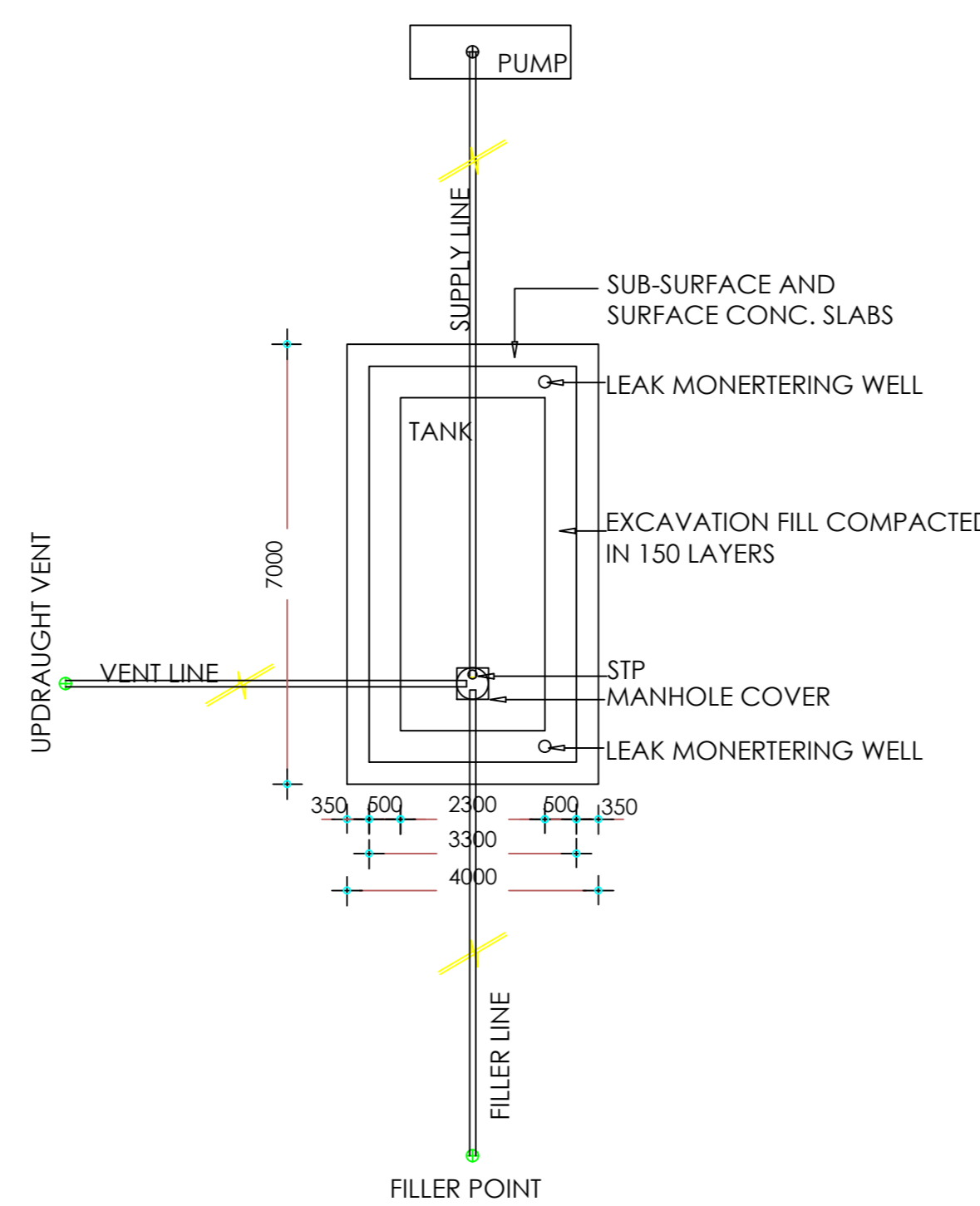
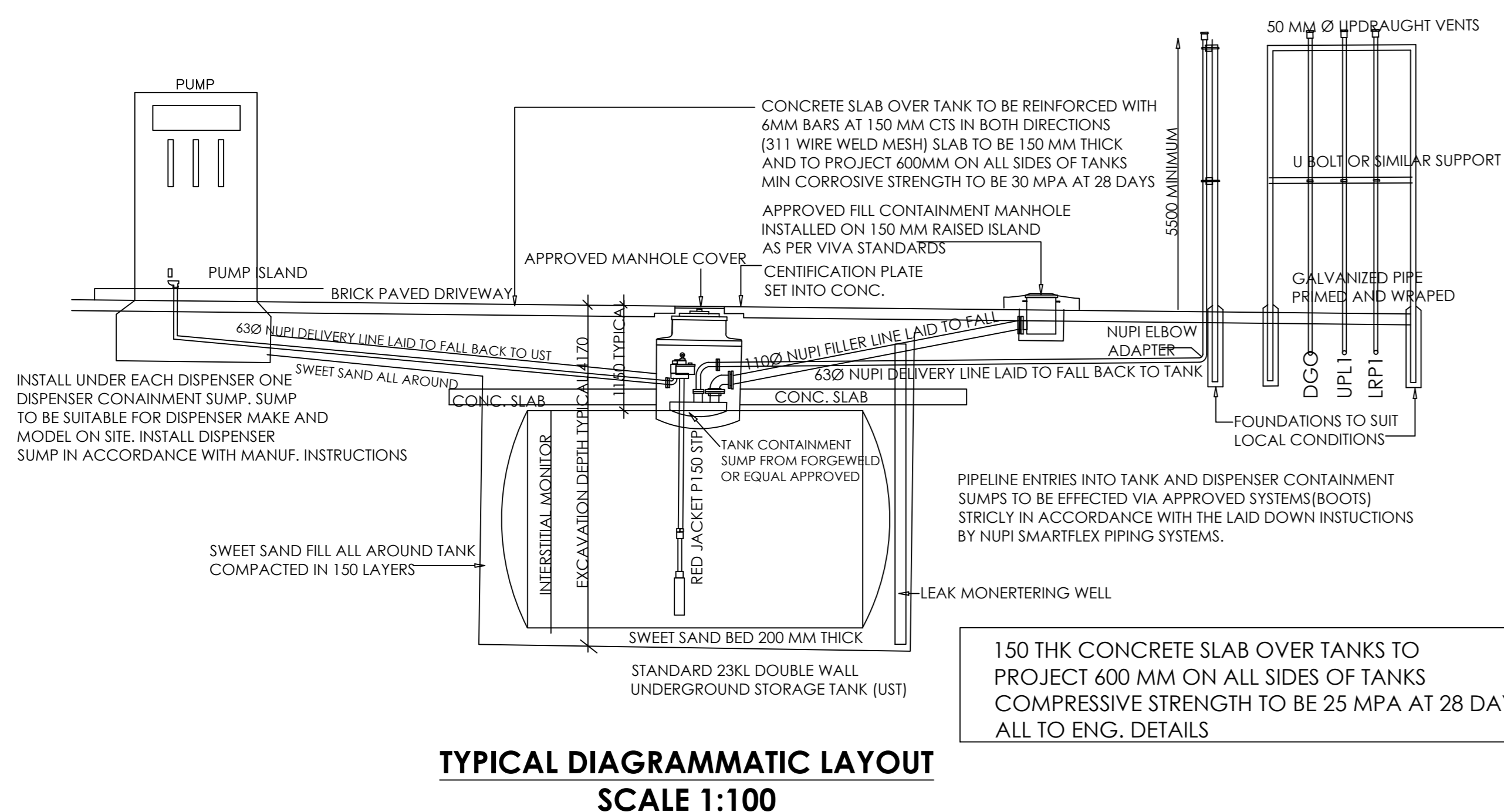


LEGEND

PIPE	SIZE	LENGTH
VENT	63mm Ø S/W	FILLER PORT
FILLER	110 mm Ø D/W	VARIES SEE PLAN
SUPPLY	63mm Ø D/W	VARIES SEE PLAN

FIRE SIGNAGE KEY

E1	E2	E3	E4	E5
F1	F2	F3	F4	F5



UNDERGROUND STORAGE TANK

1. ALL WORK TO COMPLY WITH SANS 10069:3 & SANS 10400 2010/11.
2. TANKS TO COMPLY WITH SECTION 4.
3. INSTALLATION TO COMPLY WITH SECTION 4.2, 5, 10.
4. PIPEWORK AND FITTINGS TO COMPLY WITH SECTION 6 & 7
5. LEAKAGE TO COMPLY WITH SECTION 7.4.7.
6. CORROSION PROTECTION TO COMPLY WITH SECTION 7.5
7. DIP PIPES AND GAUGING PIPES TO COMPLY WITH SECTION 7.8.
8. SUCTION PIPES TO COMPLY WITH SECTION 7.7.
9. DELIVERY PIPES TO COMPLY WITH SECTION 7.8.
10. BREATHER OR VENT PIPES TO COMPLY WITH SECTION 7.9
11. INSTALLATION TO BE CERTIFIED BY INSTALLER AS PER OHS ACT 1903.
12. FILLER TO COMPLY WITH SECTION 8.2 & 8.3.
13. STPS DISPENSERS AND SUCTION PUMPS TO COMPLY WITH SECTION 9.
14. OVERFILL PROTECTION TO COMPLY WITH SECTION 9.
15. ELECTRICAL INSTALLATION TO COMPLY WITH SECTION 13 AND SANS 10063:2, 18.
16. EMERGENCY STOP TO COMPLY WITH SECTION 13.8.
17. MARKING AND SIGNAGE TO COMPLY WITH SECTION 17 AND SANS 1188 - 1
18. NO FUEL WILL BE SUPPLIED UNTIL INSTALLATION HAS BEEN REGISTERED BY FIRE DEPT.
19. PUMP ISLANDS TO COMPLY WITH SECTION 9.3.3.
20. 1 x 9kg DRY CHEMICAL POWDER EXTINGUISHERS PER STAND ISLAND
21. FIRE DEPT TO BE NOTIFIED ON COMPLETION OF EACH STAGE FOR INSPECTION.

SUBMERSIBLE PUMP NOTES

1. ALL ELECTRICAL PLUGS, FUSES, MOTORS ETC. WITHIN A 3000 RADIUS OF ANY PUMP IS TO BE FLAME AND EXPLOSION PROOF.
2. PROVIDE A MASTER CIRCUIT BREAKER CONTROLLING ALL THE PETROL DISPENSERS IN AN EASILY ACCESSIBLE POSITION NOT LESS THAN 3000 FROM ANY PETROL DISPENSING UNIT.
3. PROVIDE A NOTICE ABOVE THE MASTER CIRCUIT BREAKER IN BOTH OFFICIAL

LANGUAGES TO READ "EMERGENCY PUMP SWITCHES".

PUMP AND TANK INSTALLATION

1. THE INSTALLATION SHALL BE IN ACCORDANCE WITH ALL THE PROVISIONS CONTAINED IN THE F SPECIFICATIONS: TANK PROJECT SPECIFICATION AND THE FOLLOWING STANDARDISED
 - i) NATIONAL BUILDING REGULATIONS AND STANDARDS ACT NO. 103 OF 1977 R) SANS
 - ii) SANS 100400 2010/11
 - iii) SANS 10089 PART 3
 - iv) SANS 10089
 - v) SANS 10131
 - vi) LOCAL MUNICIPAL BY-LAWS, REGULATIONS AND REQUIREMENTS
2. ALL PROCEDURES AND REQUIREMENTS MUST COMPLY WITH THE OHS ACT OF 1043 AND REGULATIONS OF SOUTH AFRICA.
3. ALL THE SUBMERSIBLE PUMPS MUST BE EITHER FLAME OR EXPLOSION PROOF. ALL SUBMERSIBLE PUMPS SHALL INCLUDE A LEAK DETECTOR THAT AUTOMATICALLY CHECKS THE INTEGRITY OF THE PRESSURE SIDE OF THE PIPEWORK.
4. A SINGLE HEADER MAY BE RUN FROM THE PUMP TO THE DISPENSER ISLAND WITH BRANCHES LEADING TO EACH DISPENSER. EACH BRANCH SHALL HAVE ITS OWN ISOLATING VA LOCATED IN A MANHOLE
5. THE DISTANCE FROM THE COLUMN TO THE DISPENSER SHALL BE MINIMUM OF 400mm.
6. THE DISTANCE FROM THE DISPENSER TO PERIMETER OF PUMP ISLAND TO BE MINIMUM 300mm.
7. PROVIDE 1 x 9kg DCP FE TO EACH PUMP ISLAND.

8 FIRE WATER INSTALLATION TO BE IN ACCORDANCE WITH SANS 10400 -W:2011.

ELECTRICAL PUMPS AND TANKS
THE FIRE WATER IS TO COMPLY WITH PART W OF SANS 10400 AND PART 10087/2 10087/3, 10400 PART T, W.S.A 10189/2010

ELECTRICAL INSTALLATION

1. THE ELECTRICAL INSTALLATION MUST BE IN ACCORDANCE WITH SANS 10142 PART 1 (EARTHING TO BE CARRIED OUT IN ACCORDANCE WITH OHS ACT, SECTION J) SANS 10088:1, SANS 10108.SANS 10069:2, SANS 1020 AND RULES AND REGULATIONS IN THE ELECTRICAL INSTALLATION AND ELECTRICAL MACHINERY REGULATIONS
2. THE INSTALLATION MUST BE CARRIED OUT BY A BUILDING MASTER ELECTRICIAN OR BY A NOMINATED MASTER ELECTRICAL SUB- CONTRACTOR.
3. MAIN SUPPLY METERING MUST COMPLY WITH THE LOCAL MUNICIPAL OR ESKOM BY LAWS.
4. THE MAIN CABLE FROM THE METER ENCLOSURE TO THE MAIN DISTRIBUTION BOARD MUST BE INSTALLED IN 110mm SLEEVEING.
5. ALL CIRCUIT BREAKERS AND CONTROL GEAR MUST BE * ON RAIL* MOUNTING NOT LESS THAN 5KA AND WITH INDEPENDANT LOCKOUT FACILITY. ALL UNUSED CIRCUIT BREAKER SPACES MUST BE BLANKED OFF WITH PERMANENT BLANKING PLATES. POP RIVETED INTO PLACE. CIRCUIT BREAKER MUST BE ATTACHED TO THE OS BOARD. DUTIES TO BE CLEARLY AND ADEQUATELY MARKED. WARNING LABELS PRESCRIBED IN THE OHS ACT ANDLES.
6. THE MAIN DISTRIBUTION BOARD MUST BE FLUSH MOUNTED WITH LOCKABLE H
7. THE SUB DISTRIBUTION BOARD MUST HAVE AT LEAST 3x37 WAY WITH 5ka x 80A MAIN SWITCH.
8. THE PUMP DISTRIBUTION BOARD MUST BE FLUSH MOUNTED WITH LOCKABLE HANDLES AND HAVE ATLEAST 3 x 37 WAY WITH 5ka x 80A MAIN SWITCH TO FEED ALL DISPENSERS, PUMPS, SUBMERSIBLEPUMPS, FORECOURT AND DRIVEWAY LIGHTING. MONOLITH, SIGNS AND VACUUM CLEANERS.
9. ALL PUMP, DISPENSER AND SUBMERSIBLE PUMP FEEDS MUST HAVE A SINGLE POLE AND NEUTRAL SWITCHING. NEUTRAL MUST BE ISOLATED WHEN TECHNICIAN WORKS ON THE EQUIPMENT.
10. THE EMERGENCY STOP MUST WORK THROUGH THE PUMP DB AND MUST KILL ALL PUMPS, DISPENSERS, SUBMERSIBLE PUMPS AND VACUUM CLEANER CIRCUITS.
11. THE U.P.S DISTRIBUTION BOARD MUST BE 8 OR 10 WAY SINGLE PHASE DIN MOUNT DB WITH A D.P. 30A x2.5KA MAIM SWITCH FED FROM THE U.P.S AND 8A 2.5ka C8S TO FEED ALL SHAVED EARTH PIN OR SQUARE PIN PLUGS FOR COMPUTER AND ELECTRONIC CIRCUITS. THIS DB MAY NEED A DEDICATED EARTH MAT TO PROTECT THE COMPUTER EQUIPMENT FROM TRANSLETS, CHECK THIS WITH THE ELECTRONICS TECHNICIANS.
12. POWER SKIRTING SHOULD BE INSTALLED AS SHOWN ON THE DRAWING. ALL POWER SKIRTING MUST BE 3 COMPONENT TYPE, WITH TOP FOR DATA-COMS, MIDDLE FOR TELEPHONE AND BOTTOM FOR PLUGS AND POWER
13. EACH DB MUST HAVE A 100mm x 100mm DUCT PLASTERED INTO THE WALL FROM THE DB DOWN TO THE POWER SKIRTING AND FROM THE OB UP TO THE CEILING WIRING.
14. THE WIRING IN THE CEILING / ROOF MAY BE DONE IN CONDUIT DB,DUCTING AND MUST CONFORM WITH SABS 0142. ALL WIRING IN WALLS OR CONCRETE FLOORS MUST BE IN CONDUIT OR DUCTING. CABLES PLASTERED INTO WALLS OR CAST INTO CONCRETE FLOORS WILL NOT BE ACCEPTED.
15. ALL ELECTRICIANS MUST BE AWARE OF THE FOLLOWING HAZAOOUS LOCATIONS.
 - I) WITHIN 6m OF ALL PUMP ISLANDS.
 - II) WITHIN 6m OF ALL DIP HATCHES AND MANHOLES WHERE PETROL EXISTS.
 - III) WITHIN 6m OF ALL SUBMERSIBLE PUMPS.
 - IV) WITHIN 6m OF ALL VENT AND BREATHER PIPES.
 ALL ELECTRICAL EQUIPMENT AND CABLE GLANDS WITHIN THESE LOCATIONS MUST BE FLAME PROOF.
16. ONLY MASTER ELECTRICIANS MUST WORK IN OR BE IN CHARGE OF WORK CARRIED OUT IN THESE AREAS.

FIRE AND FUEL NOTES:

- 1) THIS INSTALLATION AND ALL ASSOCIATED EQUIPMENT MUST BE IN ACCORDANCE WITH THE MACHINERY AND OCCUPATIONAL HEALTH AND SAFETY ACT OF SOUTH AFRICA.
- 2) REGULATIONS AND THE STANDARDS ACT NO. 103/1977 AND ALL AMENDMENTS TO IT.
- 3) THIS INSTALLATION MUST COMPLY WITH APPLICABLE STANDARDS INCLUDING THE NATIONAL BUILDING ONGOING OPERATIONS OF THE RETAIL SITE

PIPELINE ROUTES SHOWN ARE DIAGRAMMATICAL. ROUTES SHOULD BE CHOSEN TO MINIMIZE DISRUPTIONS TO PIPELINE SPECIFICATIONS:

Notes:

- THE DESIGN ON THIS DRAWING REMAINS THE PROPERTY OF TMSMT CONSTRUCTION & ARCHITECTURAL DESIGNS (PTY) LTD. ALL COPYRIGHT IN TERMS OF DESIGN AND DETAIL IS RESERVED.

- DO NOT SCALE OFF THE DRAWING. REFER TO THE LABELED DIMENSIONS.

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS INCLUDING THOSE OF OTHER CONSULTANTS AND / OR BILL OF QUANTITIES AND / OR SPECIFICATIONS ISSUED FOR THE PROJECT.

DRAINAGE NOTES

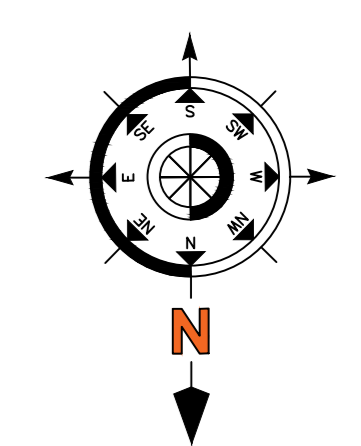
- Waste fittings to have reveal traps with waste pipes to be fully accessible along its entire length for attention and repair.
- Drains to have IE's at all bends and junctions with marked covers at ground level.
- Drains under floor to be protected from loads with IE's at both ends of the building.
- C/PV's to be Ø110mm PVC
- ASVP's to be Ø50mm PVC
- Soil and sewerage pipes to be Ø110mm PVC at 1:60 minimum fall.
- Bath, sink and shower drain pipes to be Ø50mm
- Basin and toilet drain pipes to be Ø32mm
- Vent valves to be fitted to all waste pipes.

CONSTRUCTION NOTES

- Foundation: SABS 0400 Part H
- Strip foundations unless otherwise specified on the drawing.
- Filling: SABS 0400 Part J
- Fill to be well compacted in wet layers of 150 and according to Engineer's Specs. and recommendations.
- Damp-Proofing: SABS 0400 Part J (J3) and Part (K)15.
- Ground Slabs: 75mm thick concrete ground slabs on fill with damp-proofing as described above.
- Reinforce ground slabs according to engineer's details and specifications.
- All expansion joints to be placed according to engineer's specifications.
- Glazing: SABS 0400 Part N
- All glazing to be clear unless otherwise specified in Architects details, schedules and thickness all according to the following:
 - 0.75m² - 3mm
 - 1.5m² - 4mm
 - 2.1m² - 5mm
 - 3.2m² - 6mm
- Glazing in sliding and folding doors to be 6mm laminated safety glass.
- Glazing in bathrooms to be opaque unless otherwise specified.
- All glazing in door panels to be 6mm laminated safety glass.
- All sliding doors to have safety markers.

SCHEDULE OF RIGHTS

SITE AREA	PERMISSIBLE	PROVIDED
39 2907Ha	FARM PORTION	
	(undetermined)	
HEIGHT ZONE	3 STOREYS	1 STOREY
FAR	N/A	
COVERAGE	N/A	0.05%
Filling station store		180m ²
Store room		15.05m ²
P/A cloak room		13.76m ²
Till/Pay points		13.78m ²
Manager Office		10.73m ²
Ablution Facilities		17.35m ²
TOTAL		260m²
Emergency vehicle repair		122.6
TOTAL		260m²
PARKING SPACE		202 BAYS



A	REMOVED PUBLIC GARAGE AMENITIES	ST	10/10/2022
REV	DESCRIPTION	BY	DATE

TMSMT CONSTRUCTION

TMSMT Construction & Architectural Designs (PTY) Ltd
 Telf: (011) 074 4315
 Cell: (083) 974 7100
 Fax: (086) 219 7035
 Email: simon@tmsmt.co.za

CLIENT: MR. S M MITSWENI
 P.O. BOX 504 ROODEPOORT 504 JR
 BRONKHORSTSPRUIT
 CITY OF TSHWANE

PRINCIPAL ARCHITECT: T E SINGO
 CARLSWALD CREST
 NOORDWYK EXT 3
 1687

DRAWING NO:	02978	DESIGNED:	T E SINGO	DATE:	27/01/2022	REVISION:	A
-------------	-------	-----------	-----------	-------	------------	-----------	---

PROJECT NAME: PROPOSED FILLING STATION

DRAWING TITLE: SITE DEVELOPMENT PLAN AND AND ELEVATIONS

SCALE:	1:50, 1:100	SHEET NO.:	AD	SHEET NO.:	2 of 3
--------	-------------	------------	----	------------	--------

PROJECT NO.: MTS/28 **STATUS:** SUBMISSION

DRAWING NO.: MTS/28/01/2022