GENERAL CONSTRAINTS:

- PERMITTING
- DELIVERY TANKER ACCESS
- VEHICLE STACKING
- FILLING POSITIONS
- EIA
- HAZARDOUS GOODS
- SAFETY
- PROTECTION OF THE ENVIRONMENT
- SECURITY
LEGISLATIVE REQUIREMENTS

Identify All Approvals & Stakeholders upfront:

PERMITTING REQUIREMENTS

Energy Regulator approval
Environmental approval
Town planning approval
Road Access approval
Building control approval
Site Fuel Trading licence
Dealer Trading licence
Site Design:
The optimal layout of any individual site requires an in-depth understanding of local context and a thorough site analysis:

- Primary sales building
- Pump island and canopy structure
- Refuse, service and storage area
- Parking & Service bays
- Car wash and other ancillary uses
- Q.S.R. (quick service restaurant)
- ATMs and Telephones

Engineering Planning Strength:
Oil Retail Companies ability to develop standards suited to industry norms without prescribing brands/products available in the marketplace.
Condensed Design:

- Narrow Building
- Narrow Street Frontage
- Ideal Vehicle Queuing - 2 Cars
- Minimise This Space
MAIN BUILDING

Condensed Design – full offer: 400m²

QUICK SERVICE RESTAURANT 130m²
C-STORE BUILDING 270m²

COFFEE CORNER
ATM
CUSTOMER TOILETS
Constrained:
Ideal vehicle queueing:

- Dedicated Fast Fill Lane
- Elongated approach
- With sufficient vehicle queueing
BASIC SITE CONSTRAINTS

POOR ACCESS DESIGN
BASIC SITE CONSTRAINTS

SHALLOW VEHICLE STACKING AT ISLANDS (on site)
ENVIRONMENTAL SPILLAGE

Protecting the soil and underground water system
FIRE HAZARDS

Basic hazards exist wherever petroleum-based fuel is being handled.
FIRE HAZARDS

Basic hazards exist wherever petroleum-based fuel is being handled.

Design for safe retail environment
Design to mitigate fire hazards
Develop the Risk Guidelines
“THE BLUE BOOK”:
APEA Guidance for Design, Construction, Modification, Maintenance and Decommissioning of Filling Stations

“THE WHITE BOOK”:
APEA Guidance on Storage and Dispensing of High Blend Ethanol Fuels including E85 at Filling Stations 2008

SAPRA
South African Petroleum Retailers Association (SAPRA)

SMTS
SPA/SAPIA Petroleum Retail Contractor Safety Passport training
THE SERVICE STATION OF THE FUTURE