

FUEL INSTALLATION NOTES

Note
Site has a very high ground water level and it may prove necessary to undertake dewatering procedures on all deep excavations.
Granular sub bases and fill material must be contained within Terram geotextile membrane to prevent migration.

Tanks
Tanks to be constructed to Tesco Design standard and provided by specialist contractor.
Each compartment to be fitted with a Tesco approved overflow prevention device.
Tank leak detection system to be installed with header tank fitted within the tank chamber and connected to the tank double skin monitoring point. System to be topped up with anti-freeze on commissioning.

Tank Installation
To comprise 2x 20,000 ltr and 1 no 25,000 ltr double skinned steel tanks. To be installed as shown on drawings and to be supported on a 275mm thick multiple resistant silu concrete C40 base, reinforced with 10x layer of A393 mesh, as engineers details. Tank vault is to be terram lined prior to pouring base to completely envelope excavation. Tank vessels are to be fully encased in pea shingle.
Tank installation will require a confinement system and dewatering to control ground water during installation. Design for this to be provided by Structural Engineer.

Tank Chambers
Tank chambers to use 1 no square standard 'Welded Monor' Atlas manway per compartment.

Monitoring Wells
Atlas 200mm monitoring wells placed within tank farm approx. 5000mm down cast iron cover and frame.

Pump Islands
From 4th no. 'dog bone' shaped pump islands, see Tesco standard pump island layout for further details. Islands comprising of 125x25mm PC kerbs, finished with 30mm silu concrete with 1No. layer of A252 mesh. Islands finished in selected tiles. Islands to be set in concrete forecourt with isolation margin.

PIPEWORK
All pipework installed in accordance with APEAIP Design Construction, Modification and Decommissioning of Filling Stations (2nd Edition), (the Blue Book)
Pipe work to be tested in accordance with the Blue Book and witnessed by the local Petroleum Office.
All pipework to be laid with a 1:100 fall back to the tanks. Care to be taken to avoid any low points leading to possible liquid locks.
Pipes to be laid on bed of 10 mm pea shingle a min of 150 mm thick and surrounded to a depth of 150 mm of pea shingle on completion. Pea shingle to be contained with a Terram geotextile membrane to prevent migration.

All threads to be sealed using Loctite 577 thread sealing compound used in accordance with manufacturers instruction. Helifite and Ultragee / glycerine are not to be used.
Stage 2 vapour recovery return line to be installed on all sites even if pumps are fitted with self contained Stage 2 VR.
Suctions
50 mm Durapippe Xtra
Fills
110 mm Durapippe Xtra
Vents
63 mm Durapippe Xtra
Stage 2 Vapour Return
63 mm Durapippe Xtra from tank 2 to manifold and 32 mm Durapippe from manifold to under pump position. To be capped off for future use.
Atlas offset fill and vent point to be provided by Berry & Co.
All pipework to be labelled in accordance with Tesco standards.
Vent stack to be fitted with vapour control system supplied and fitted by Specialist Contractor.

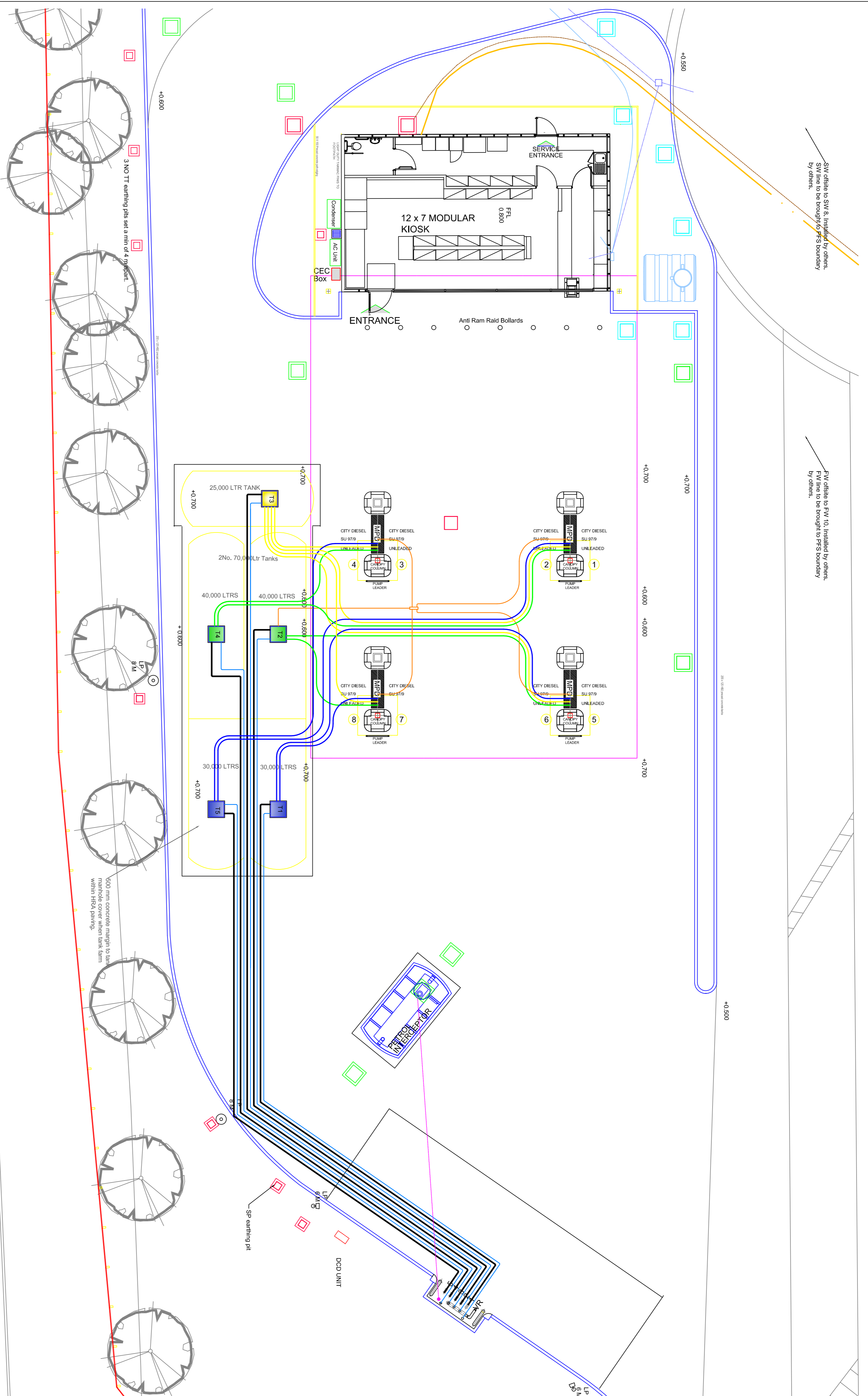
DISPENSERS
Dispensers 6 hose Petrotec 4500 with built in stage 2 vapour recovery system.
GAUGE OPW Galaxy system by Specialist Supplier.

REV	DATE	COMMENTS



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SITE LOCATION	THE BILL, ST MARY'S RD RAMSEY
TITLE	PIPE WORK LAYOUTS AND DETAIL
DRAWING NO.	PIPEWORK LAYOUT 02
DATE	JULY 2009
SCALE	VARIES
DRAWN BY	CWA



TANK TO PUMP LAYOUT

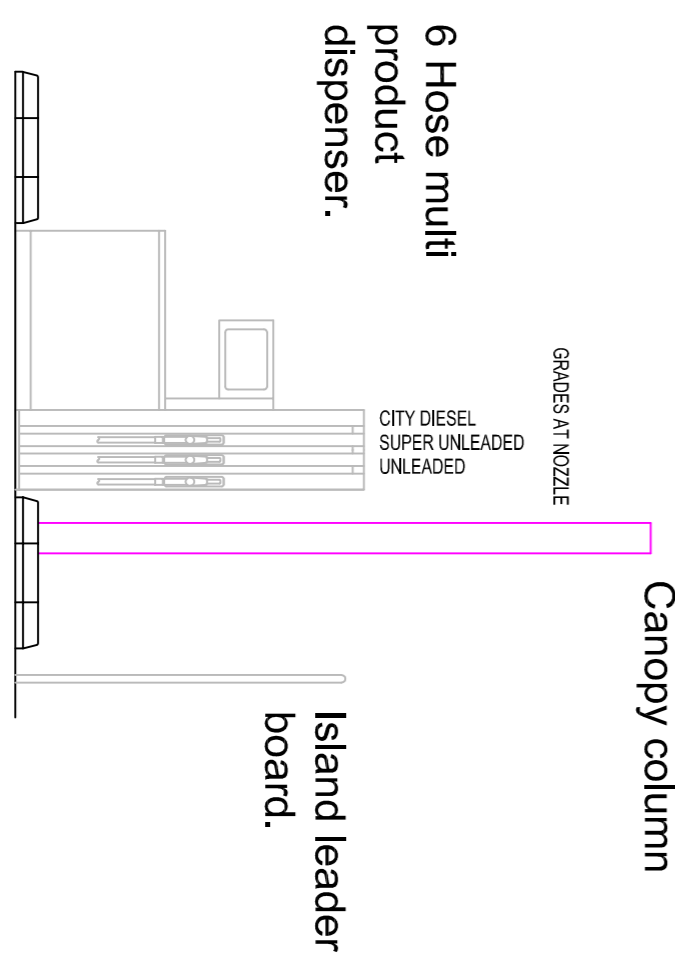
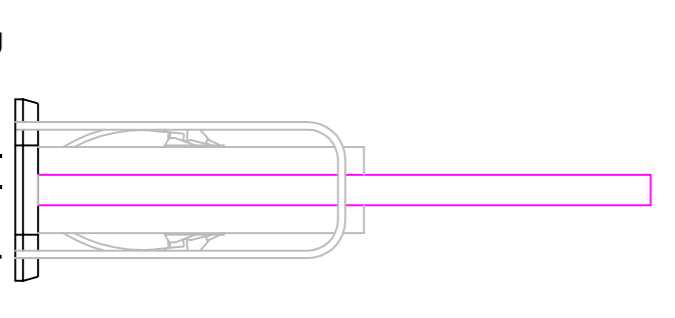
TANK NO	GRADE	SAFE WORKING CAPACITY	FEEDING PUMPS
1	CITD	29,100 LTS	PUMPS 5/6, 7/8
2	UNL	38,800 LTS	PUMPS 5/6, 7/8
3	SUL	24,250 LTS	ALL PUMPS
4	UNL	38,800 LTS	PUMPS 12, 3/4
5	CITD	29,100 LTS	PUMPS 12, 3/4

PIPE WORK KEY

	UNLEADED SUCTION LINE
	CITY DIESEL SUCTION LINE
	SUPER UNLEADED SUCTION LINE
	STAGE 2 VAPOUR RETURN LINE
	OFFSET FILL LINE
	TANK VENT LINE

Pump Grades

- P1/2 - Customer entry grades from column - UNL T4 / SUL T3 / CITY DIESEL T5
 - P3/4 - Customer entry grades from column - UNL T4/ SUL T3 / CITY DIESEL T5
 - P5/6 - Customer entry grades from column - UNL T2 / SUL T3 / CITY DIESEL T1
 - P7/8 - Customer entry grades from column - UNL T2 / SUL T3 / CITY DIESEL T1
- GRADE ORIENTATION TO BE CONFIRMED PRIOR TO INSTALLATION, AS LAYOUT IS SUBJECT TO CHANGE DEPENDENT UPON PUMP MANUFACTURE



PUMPS AND ISLANDS

Pump Island constructed using HB2 255 x 125 pre cast concrete kerbs with standard quadrants to match. Island finished with trowel finished concrete.