

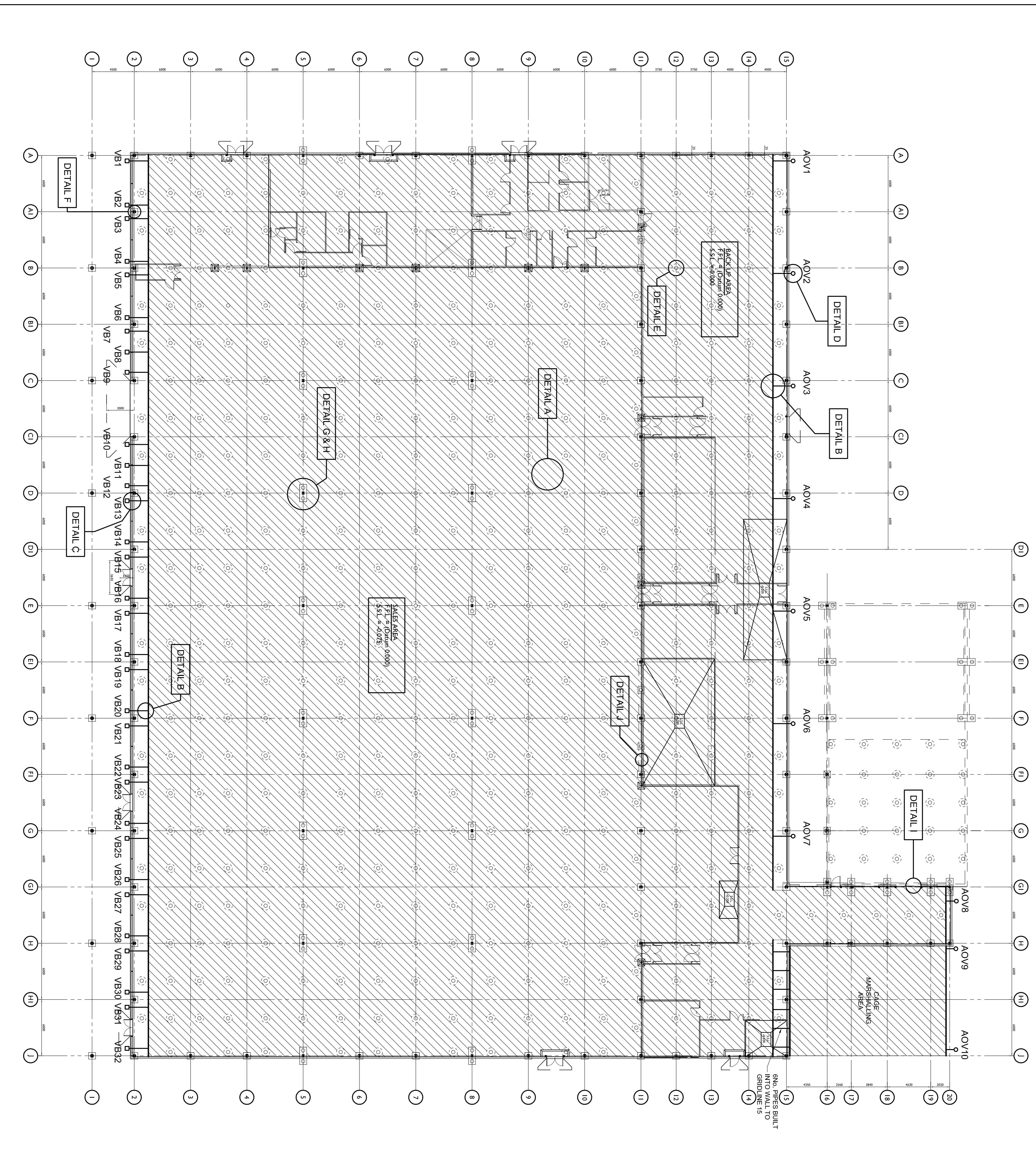
SPECIFICATION FOR GAS PROTECTION MEASURES

Membrane

1. Gas resistant membrane to be high performance loose lay membrane containing 20 micron encapsulated aluminium core. Maximum methane permeability $1 \times 10^{-10} \text{ m}^3/\text{m}^2/\text{s}$. (ACS Gas Resistant Membrane)
2. Installation and protection in accordance with manufacturers recommendations. Membrane to be laid on minimum 25mm blinding throughout except where laid directly above geocomposite gas venting layer.
3. Individual membrane sheets to be lapped minimum 100mm and sealed with 30mm wide proprietary butyl tape (ACS Butyl Sealant Tape).
4. All services and other penetrations to be sealed with self adhesive gas resistant membrane (ACS Adhesive Gas Membrane).
5. Geocomposite Gas Venting Layer
6. Geocomposite to comprise single sided 25mm thick cusped high density polyethylene core with high permeability geotextile fabric bonded to core dimples (ACS Gasflow 25).
7. Core to have a minimum 13mm equivalent clear void and a minimum crushing strength of 100kN/m².
8. Geocomposite venting layer to entire building footprint with connectors to 150mm diameter high density polyethylene gas collection manifold pipe along the two long sides of the building.
9. Air Vents
Ground level vent boxes (VB) to be provided to from elevation at nominal 3000mm centres. Vent boxes to be locally repositioned around door openings etc.
High level vent pipes extending to 500mm above eaves level fixed with wind aspirated cowls (ACS Cowl R250) to rear elevation (allow 10N0).

REFERENCE

- 150mm ID HDPE Gas Collection Manifold Pipe
- Geocomposite Gas Venting Layer (ACS Gasflow 25)
- Ground Level Vent Box (VB)
- Air Outlet Vent (AOV)



CONSTRUCTION STATUS

REVISION	DESCRIPTION	CHECKED	APPROVED	DATE
A	Protection measures added to cage marshalling area.			22/05/02

CLIENT	RIG CARTER	TITLE	GAS PROTECTION MEASURES (STORE PLAN)
SCHEME	FESCO STORE GREAT YARMOULTH	DRAWN	SAHB
ENGINEERS	Environmental Engineers	CHECKED	HDS
DATE	APRIL 2002	REF	J02024
SCALE	1:200	DRAWING NO.	J02024/01