DEVELOPMENT SERVICES
11 AUG 2008
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Fibrelite cover & frame in concrete margin installed to manufacturers instructions to avoid ingress of water

Fibrelite Standard Plus chamber tested on completion of installation to avoid ingress of water

Ensure all pipe & duct entries into chambers are sealed with appropriate boots (Fibrelite) compatible with fuel lines & chambers

50,000 litre double skin steel fuel storage tank

All tank chambers are to be fitted with the correct tank number & grade label illustrating the safe working capacity in litres

Stage 1b & 2 vent warning notices are to be fitted within the tank chambers

The depth of this excavation requires that a suitable support system is utilised . The proximity of the work to other structures & boundaries must be evaluated prior to commencement.

Reference should be made to the Engineers report & the soil investigation

The Health & safety plan must accommodate all aspects of this operation in relation to site specific considerations see other drawings
Party wall notices will be required if excavations within 6m of boundary or adjoining property

Soil may be contaminated from old installations & disused tanks may intrude into the area of excavation. Refer to the survey & archive drawings

Water may be encountered during work & dewatering may be required

300mm of pea gravel beneath tanks at correct depth & level along tank axis

Holding down webbing straps to be taken through both layers of reinforcement mesh & cast into base concrete

if excavation close to foundations Highways or boundaries it may be a requirement that the support system remain in place see engineers site specific recommendations

275 mm thick concrete base laid at base of excavation & reinforced with 2 layers of BRC A393 mesh reinforcement
Concrete to be sulphate resistant CP40 mix
Laid on 75mm of lean mix concrete blinding

Some ground conditions may require an Engineers designed solution for base slab refer to site specific drawings for details

DETAIL SECTION

0.000

1100 min.,
1400 max.
subject to site specific evaluation forecourt levels & falls

2625 O/A
tank dimension

-1100
to
-1400 max

-4025
to
-4325 max

-3725
to
-4025 max

-4375

300

300

300
min

Standard Observation well see drawing BPSTD-FUE 003-019

Consolidated fill material as engineers details

Tank monitoring header vessel

Risbridger valves & test fittings & overfill protection valves

Tanks are not to be water filled during or after installation & the tanks own monitoring system should be operational prior to fuel delivery
Pressure testing of vessel or interstitial space must only be carried in accordance with tanks suppliers recommendations
The interstitial space will be filled prior to delivery with appropriate fluid any loss of fluid must be reported

Holding down straps see separate details

Geotextile membrane to sides of tank excavation

Tanks are to be encased in pea gravel carefully placed to avoid damage to tanks protective coating

Any damage to coating during transit or installation must be repaired using materials obtained from tank supplier

Minimum of 300mm pea gravel encasement

Ensure tank is secured with lids level in both planes avoiding any rotation on vessel

Avoid deformation of vessel whilst securing with webbing straps

The exact depth of tank installation must be evaluated with regard to the site existing & proposed levels ensuring a 1:100 fall back to tanks on pressures vents & offsets 30mm in 3000mm

REVISIONS		
NR	DATE	DESCRIPTION

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DRAWN: TSE
DATE: 01/07/04
DESIGN CHECK:
DATE:
APPROVED:
DATE:
ATTACK CHECK:
DATE:
SCALE: 1:20 @ A3
scaled dimensions should not be taken from this drawing

FUEL SYSTEM STANDARD

TANK INSTALLATION
CROSS SECTIONS
FOR 50 & 60K TANKS

FILE 000000

DRAWING No	REV
bp Std-FUE-003-007	-

CAD REF: MARTINDALES

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