



WHAT DESIGNERS CAN DO





THE GOOD



The GOOD

Ground Investigation & Pre-Demolition Surveys

Hazards

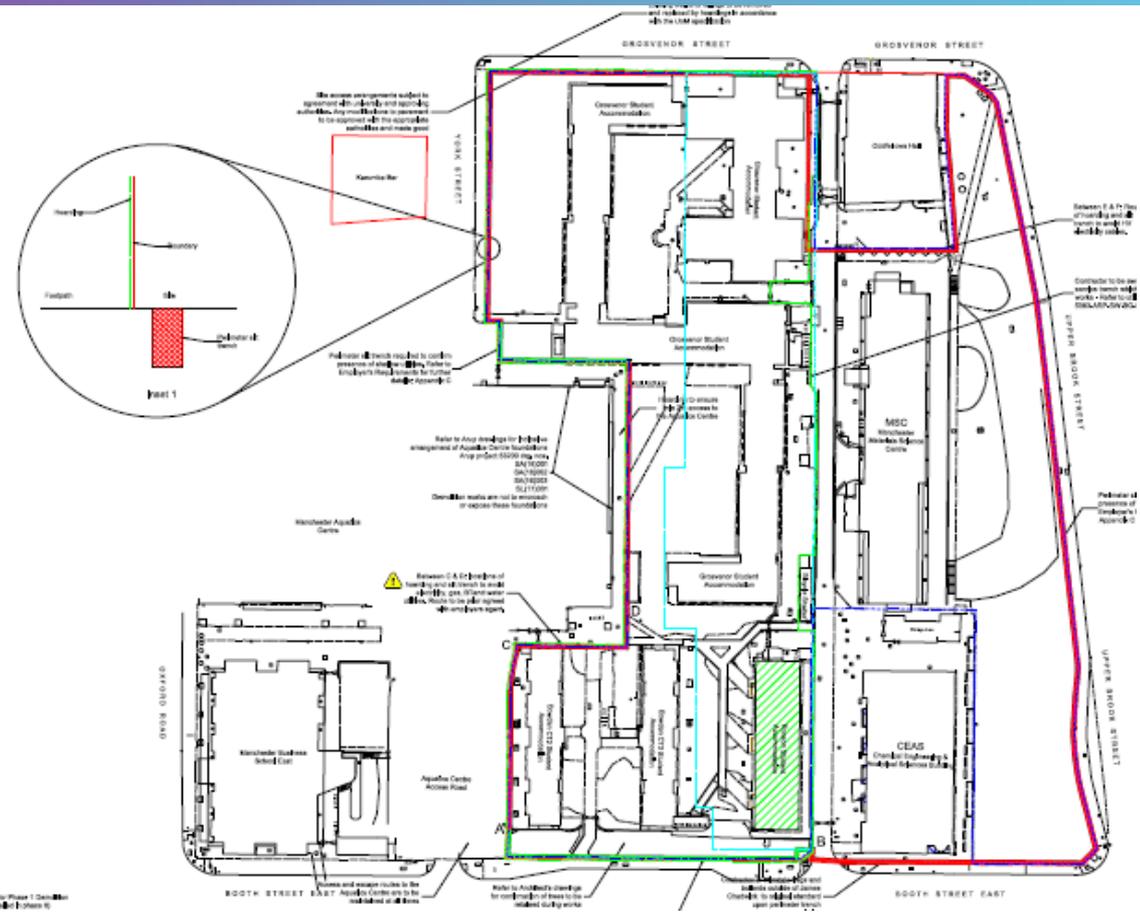
- Poor Ground Conditions
- Electrocution & Comms !!!
- Fire
- Explosion
- Flood

Cost vs Risk

Cost of trench £30K
 Cost of demolition £2.7M
 1.1% of cost

New build total £220 M
 0.14% of job cost

Lesson learnt – Do an accurate site assessment



The Good;

SAFE TECHNOLOGY

Do an Access & Maintenance Strategy Document



CREATE ENOUGH
OPERATIONAL
SPACE?



The Good

Identify Operational Space Requirements



SAFE TECHNOLOGY



The Good

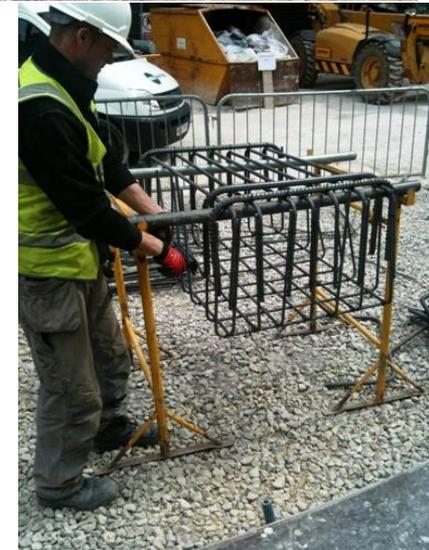
Think of Human Size – Draw a person



UN SAFE TECHNOLOGY



SAFE TECHNOLOGY



The Good

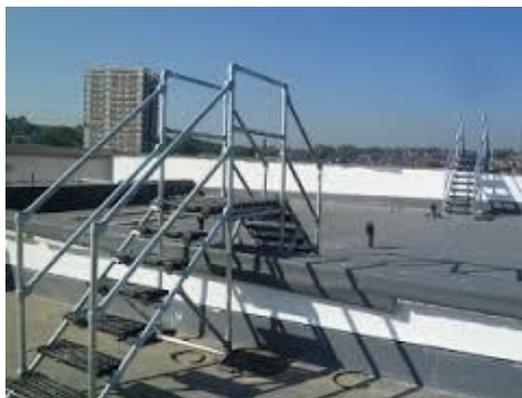
Choose the right solution

SAFE TECHNOLOGY HIERARCHY Man safe vs Collective passive?



LOWEST - PPE

£80k + £1500/day
Pre-use test



£60k + Whole life savings



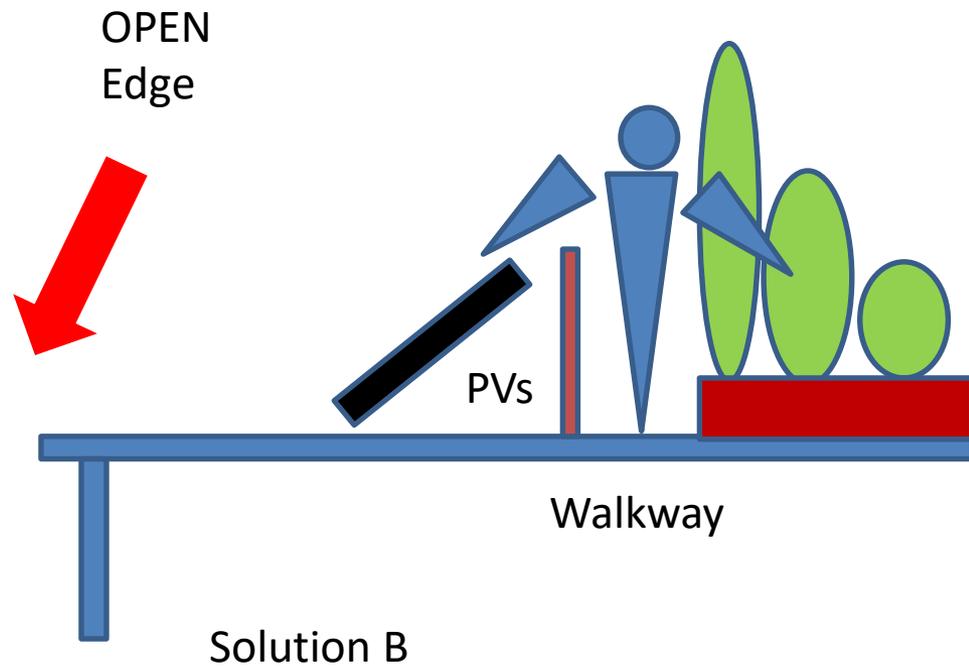
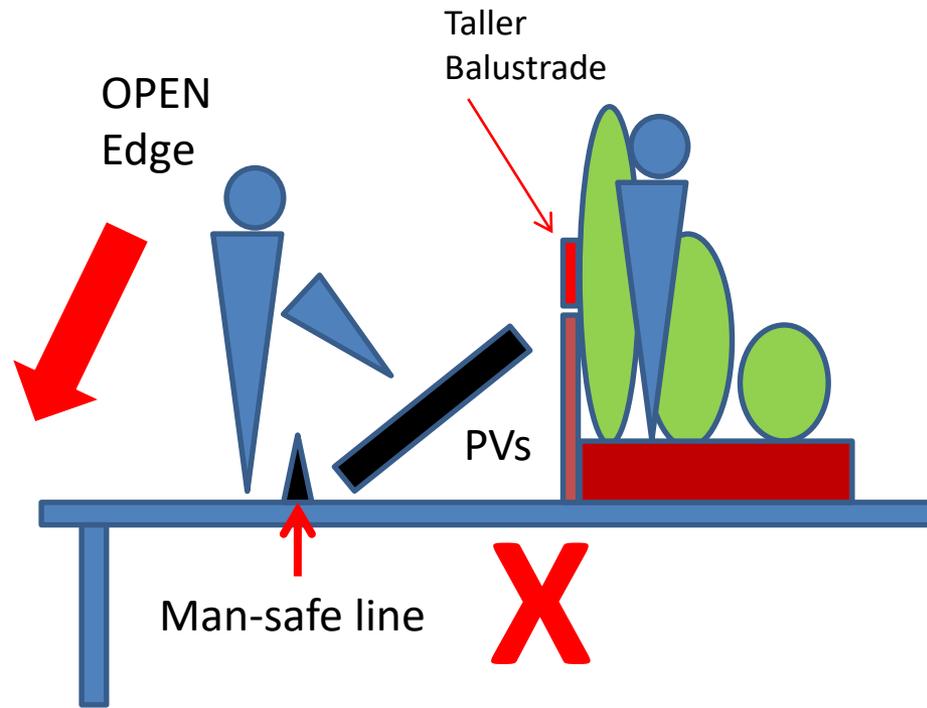
HIGHEST
COLLECTIVE PASSIVE

The Good

Think of Human Size – Draw a person

UN SAFE TECHNOLOGY

SAFE TECHNOLOGY



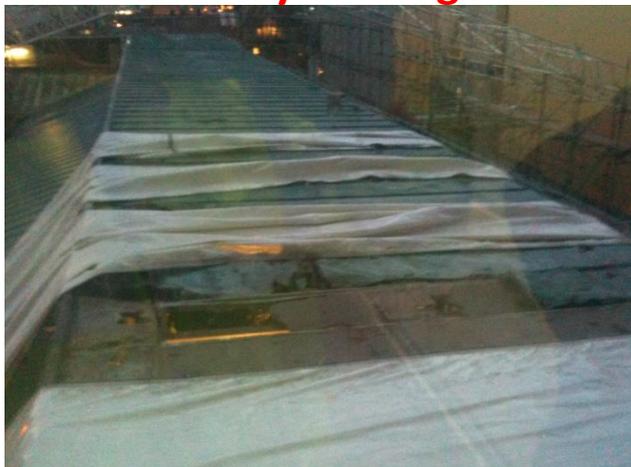


THE BAD



The BAD

Failure to Identify existing or future hazards



Fragile roof



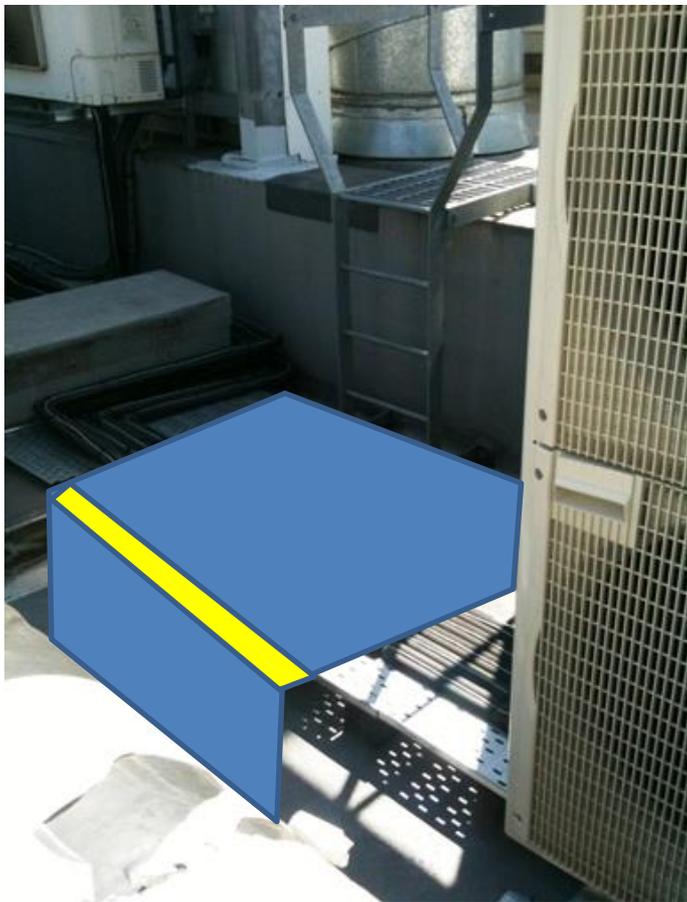
Failure of Project Team to;

Identify the hazards – not in PCI (I found 32+ significant hazards) unidentified within 1 hour of the site visit & PCI review. **Including FRAGILE ROOF!**

Existing & New Roof access and edge protection completely missed during brief & design

The BAD

Designing in Hazards



Poor planning for M&E installations & future maintenance!!!!
Performance spec?



A death occurred here!!

Edge protection not installed

The BAD Designing in hazards and designing in more hazards



Specifying Fragile roof-lights!!!!



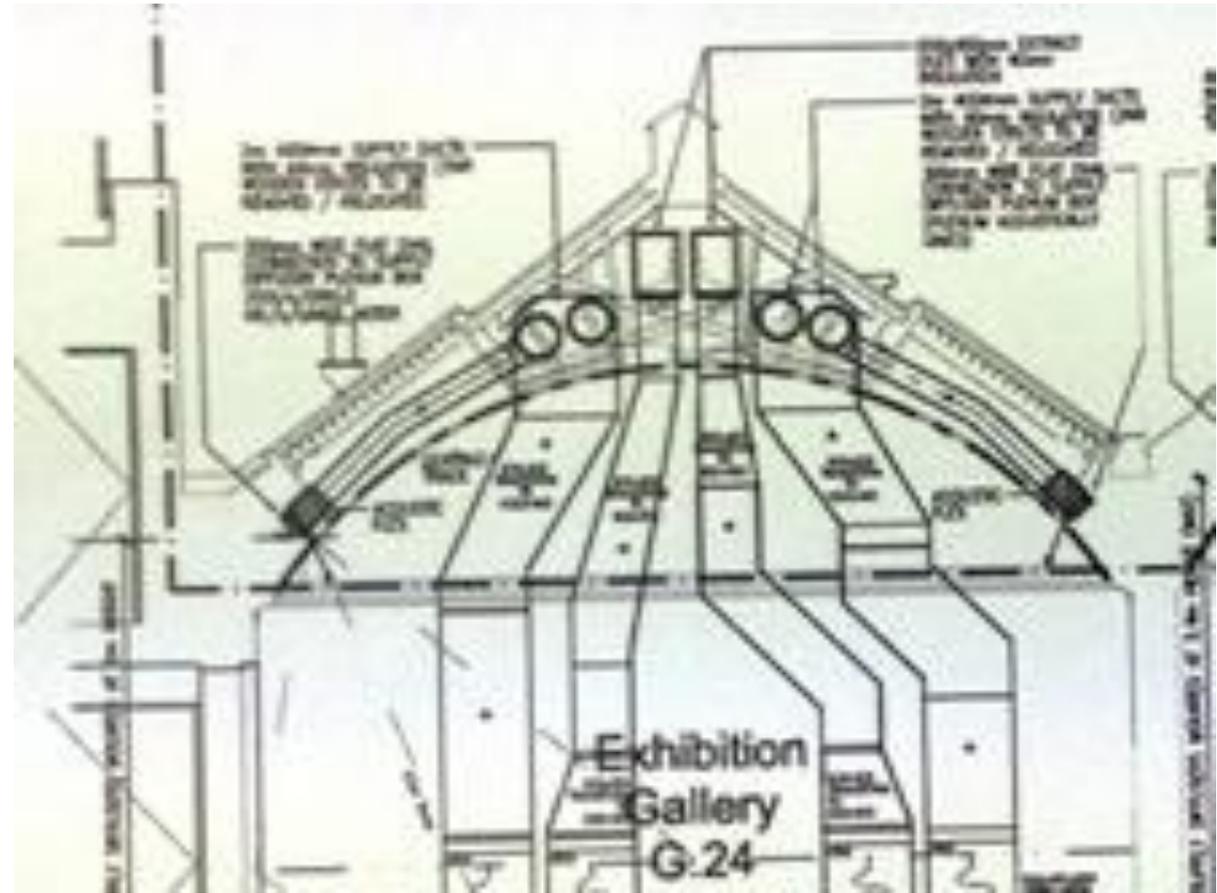
Access close to Fragile roof-lights!!!!

The BAD

Designing in hazards when considering other issues

- Listed building
- Listed barrel ceiling features

SPACE ????????





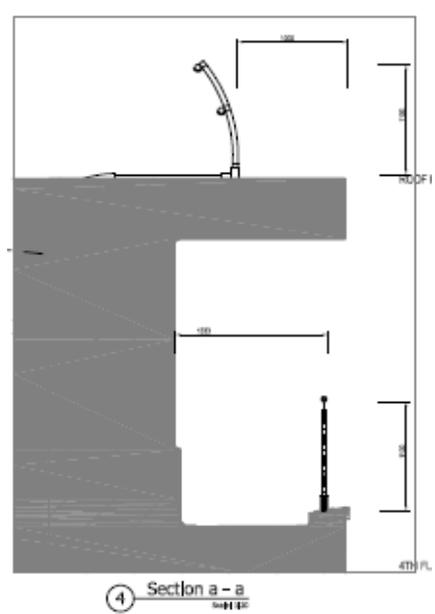
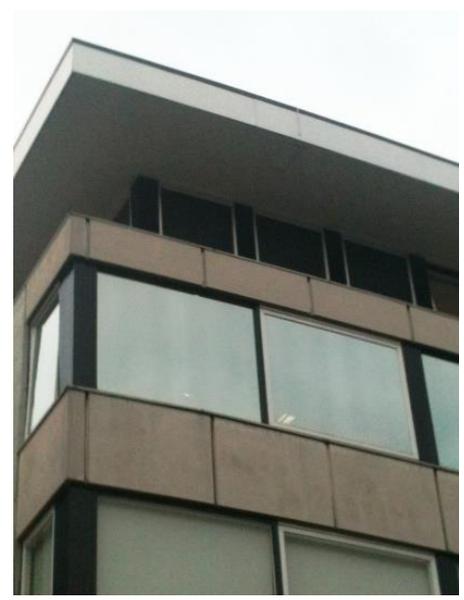
THE UGLY



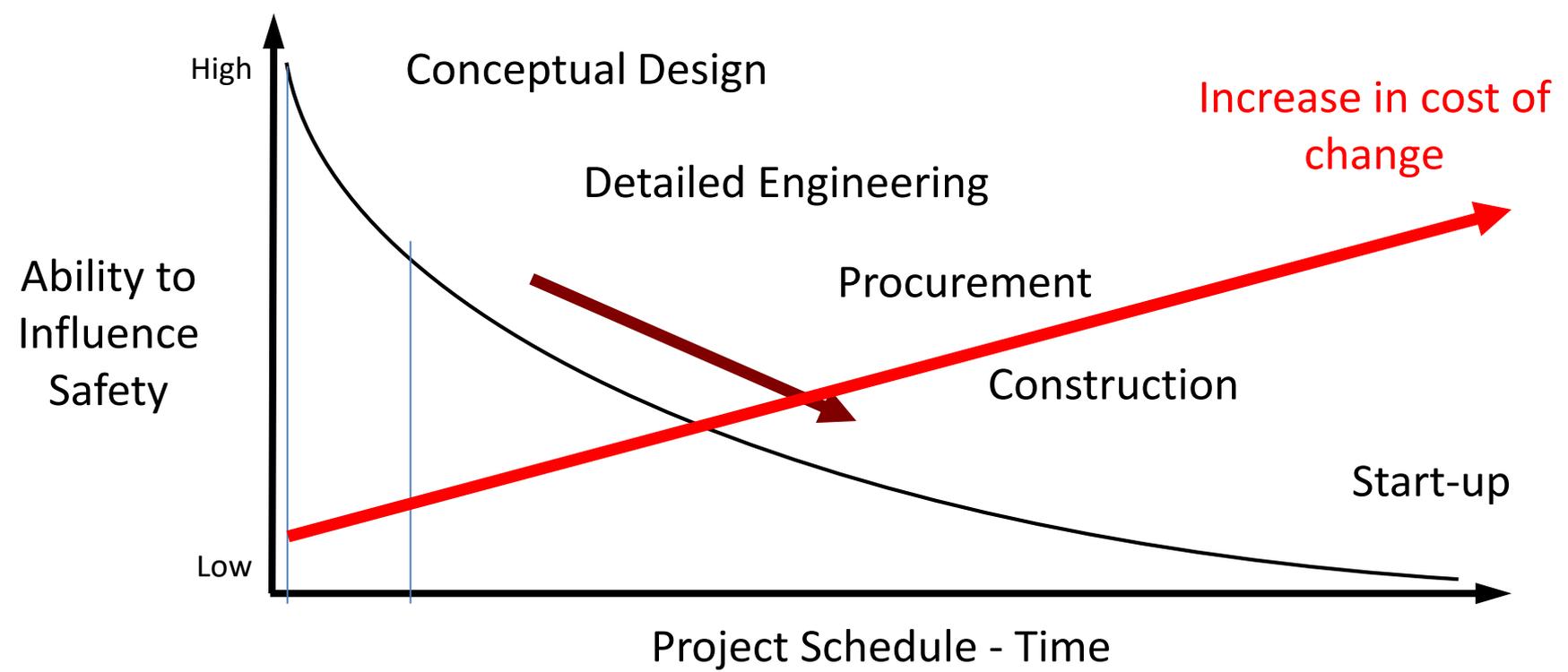
UGLY

Allowing others to influence safe design

Making a Difference - Long Term – Planners & Parapets



Ability to influence safety



START EARLY – DO NOT LEAVE TOO LATE

**What do you
do?????**



Rogues Gallery – Humans will take risks if Designers don't plan

Inventive?



X
Reckless?



Foreseeable? - None of these then in YOUR designs

To achieve Safe to Build, Use, Maintain & Demolish
We must all play our part



CLIENTS



COORDINATORS



DESIGNERS



PRINCIPAL
CONTRACTORS



CONTRACTORS



OPERATIVES

Σας ευχαριστώ όλους για το χρόνο σας
Παρακαλούμε να έχετε μια υπέροχη μέρα

Thank you all for your time
Please have a great day