



ANDERSON WILLIAMSON LTD
Chartered Surveyors & Construction Consultants



Tender for the
Removal of Asbestos from

**C.T.I (The Mall)
Clonmel
Tipperary
RN72420E**

For

The Office of Public Works

Revision No.	Changes.	Date.

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DESIGNERS RISK ASSESSMENT

ANDERSON WILLIAMSON LIMITED
Designer's Risk Assessment/Check List

Designer: Anderson Williamson Ltd.		Project: Removal of Asbestos from CTI (The Mall) Clonmel, Tipperary					Page 1 of 3	
Part of Works:		Date: 1 st March 2011					Design Action	
Ref	Activity/Element	Potential Hazards	Population at Risk	Risk Rating			Design Stage	
No.				L	S	R		
1.0	General site conditions	Unauthorised access unto the site Site compound	P	1	3	3	The Principal Contractor (PC) should be aware of the proximity of occupied premises and thoroughfares. PC to consider the early installation of a suitable barriers and signage to be agreed with the PS. PC to store skips and stores in close proximity to the work space.	
2.0	Site Wide	Restricted access / egress for site traffic and deliveries Unlimited vehicular access about site for suppliers/equipment Contact with moving vehicles/plant Slips and trips Fire or other emergency	SCP	2	1	2	PC should strictly adhere to the restrictions placed on site traffic movement Contractor to access site via main entrance. Existing access routes to be used. Plan arrangements for moving materials to minimise travel distances and avoid contact with other users. Plan layout of site to allow adequate storage areas. Early operation of fire safety systems and means of escape	
							Vehicle Routes and traffic management predetermined	

Key:

L = Likelihood (Low, Medium, High[1,2,3])

S = Severity (Low, Medium, High[1,2,3])

R = Risk (Likelihood x Severity)

S - Staff

C - Contractor operatives

P - Public

★ A particular risk in this project

ANDERSON WILLIAMSON LIMITED
Designer's Risk Assessment/Check List

Designer: Anderson Williamson Ltd.

Designer: Anderson Williamson Ltd.				Project: Removal of Asbestos from CTI (The Mall) Clonmel, Tipperary			Page 2 of 3	
Part of Works:				Date: 1 st March 2011			Design Action	
Ref	Activity/Element	Potential Hazards	Population	Risk Rating			Action to be taken at Design Stage	
No.			at Risk	L	S	R		
		Contact with moving vehicle / plant	SCP	2	3	6	Segregate construction operations from routine user operations.	
3.0	Materials, solvents and components, adhesives	Manual handling / musculo-skeletal injuries, skin diseases, cuts and abrasions	CSP	2	3	6	Ensure adequate information is available on materials etc.. Ensure weights and sizes of materials are reduced to acceptable levels where manual handling is unavoidable. Use protective clothing, goggles and respirators.	Outline method statement provided.
4.0	Removal	Build up of dust / noise control ★	CSP	3	3	9	Stringent dust suppression and use of air locks to be employed.	Sequence and methodology of removal follows universal procedure.
		Removal of deleterious materials ★	C	3	3	9	PC to forward Method Statement.	
		Existing services ★	CSP	2	3	6	PC to ensure that existing services are located and isolated where required.	Disruption and replacement kept to an optimum minimum.

Key:

L = Likelihood (Low, Medium, High[1,2,3])

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S - Staff

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ANDERSON WILLIAMSON LIMITED
Designer's Risk Assessment/Check List

Designer: Anderson Williamson Ltd.				Project: Removal of Asbestos from CTI (The Mall) Clonmel, Tipperary				Page 3 of 3	
Part of Works:				Date: 1 st March 2011				Design Action	
Ref	Activity/Element	Potential Hazards	Population at Risk	Risk Rating		Action to be taken at Design Stage			
No.				L	S	R			
5.0	Drainage below ground, below ground services	Dispersion of Asbestos Fibre	CSP	1	3	3	Drains to be sealed prior to commencing.	Disruption and replacement kept to an optimum minimum.	
6.0	Stripping out	Dispersion of Asbestos Fibre	CSP	2	2	4	PC to provide method statement.	Sequence and methodology of removal follows universal procedure.	
7.0	Existing Services	Contact with live services	SCP	2	3	6	Careful sequencing of procedures and liaison with janitorial staff.	Details of existing service provision included in specification	

Key:

L = Likelihood (Low, Medium, High[1,2,3])

S = Severity (Low, Medium, High[1,2,3])

R = Risk (Likelihood x Severity)

METHOD STATEMENT

**METHOD STATEMENT FOR REMOVAL OF
ASBESTOS MATERIALS FROM-**

CTI (The Mall)
Clonmel
Tipperary
RN 72420E

PROJECT SUPERVISOR

Anderson Williamson Ltd
Unit 3
Citylink Business Park
Durham Street
Belfast
BT12 4HQ
tonya@andersonwilliamson.com

Tel No: 028-90279810

PROJECT MANAGERS

W.O Morrissey & Son
Thomas St,
Clonmel,
Co Tipperary
womorrissey@eircom.net

Tel No: 052-6121621

AIR MONITORING CONSULTANT

G & L Consultancy Ltd
5 Hazelbank Road
Lawrencetown
Craigavon
Co. Armagh
BT63 6DS

Tel No: 028-40623566

ENFORCING AUTHORITIES

Health and Safety Authority
10 Hogan Place,
Dublin 2

Tel No: 01-6620400

Scope of Work

Removal and disposal of the following:

15 no. Toilet Cisterns

Total Contract Period: T.B.C

Preparatory works (By Client)

1. Removal of all non-contaminated free standing items and equipment from the work areas.
2. Supply of sufficient power and water to service decontamination units, work areas and all specialist plant for the duration of the contract.
3. Supply of location for a decontamination unit and a sealed lockable area for the storage of asbestos waste during the removal works.
4. Isolation as necessary of any ductwork / pipework and electrical services within the works area as required.

RISK ASSESSMENT

Type of work and duration:

Proposed start date	T.B.C
Proposed finish date	T.B.C
Number of employees to be utilised	At contractors discretion
Approximate quantity of asbestos	15 Items

Type and quantity of asbestos:

Number of samples taken	3
Type of asbestos-Analysis	Amosite
Form of asbestos	Reinforced Composite

SPECIALISED FACILITIES

Hygiene Facilities

A self-contained hygiene unit (i.e. Decontamination Unit) complying with HSE Guidance note EH47. The unit is purpose built, consisting of three separate compartments: *a clean area, a shower area and a dirty area*. A self-closing door physically separates each compartment. Extract ventilation is provided which is designed to provide airflow from the clean end to the dirty end. In all other respects the unit conforms to the requirements of Guidance Note EH47 (*The provision, use and maintenance of hygiene facilities for work with asbestos insulation and coatings*).

Wastewater from the hygiene unit is to be filtered into a foul drainage system, via limited filtered system attached to the unit.

P.P.E. to be used

Personal protective equipment, disposable overalls and steel toe capped wellington boots and respiratory protective equipment.

Vacuum Cleaners

Numatic International HZQ.570 high efficiency vacuum with "HEPA" type filtration.

Fibre Suppressant Procedure

All asbestos materials shall be sprayed using a diluted dampstrip asbestos penetrant solution prior to and during removal.

ENCLOSURE - Construction

This requires the formation of an effective airtight seal between the areas to be made safe – the work area – and adjacent areas. The construction method shall be as follows:

1. All none potentially contaminated fixtures fittings and fixed furniture are to be removed before any works commence, as far as is practicable. Any non-contaminated items, which cannot be reasonably removed will be sheeted over and protected from impact damage where necessary. This will be achieved by appropriate use of framework and plastic sheeting.
2. A 3 stage air lock, constructed of 2"x 3" timber batons, heavy-duty polythene and 50mm heavy-duty adhesive tape will be attached to the work area, and this will also act as a bag chamber. (See Work Plan further in this document). As previously stated in this document a negative pressure unit will be situated so as to maximise airflow.

Warning Signs

Warning Signs (**Keep Out Asbestos Works in Progress**) will be posted around the enclosure and to the entrance flaps of the bag and decontamination unit.

Smoke Testing

A smoke test will only be carried out after a satisfactory visual inspection of the work enclosure has been carried out.

Entry to the Work Enclosure

Put on clean stripping coveralls and washable footwear.

Put on the respirator in the first section of the airlock.

Pass through to the airlock and in turn into the work area.

Access to the work enclosure will be restricted to the following;

1. Removal operatives and site supervisor.
2. Health and Safety Authority Environmental Health Inspector.
3. Asbestos removal consultant(s).

No person shall be admitted to the work enclosure without adequate protective clothing and respiratory protection equipment.

Method of Work during Asbestos Removal

Once the enclosure has been deemed satisfactory by the supervisor, a smoke test will be carried out in order to detect any unforeseen breaches in the enclosures. A pre-start site checklist will then be undertaken by the asbestos consultant and, if satisfactory, a permit to work will be issued and operatives will commence removal works. The asbestos materials shall be wetted down with a fibre suppressant from an airless sprayer and an injection machine until they are saturated; operatives will then remove the contaminated pipe ceiling coating. All waste and debris will then be carefully removed and placed in asbestos removal bags and placed in the first section of the bag-lock where they will then be placed in a clear asbestos removal bag and sealed at the neck with heavy-duty tape. All waste generated will then be placed in the on-site sealed lockable area.

Once all asbestos containing materials have been removed from within the enclosure, all surfaces will then be wiped down and vacuumed to remove any residue. The site supervisor will then conduct a visual examination of the area. If the area is deemed satisfactory, he will then inform the consultant who will conduct a further visual examination of the area. After the completion of a visual examination by the consultant, the area will be allowed to vent. The consultant will then re-enter the enclosure and activate a clearance air test. The consultant will then re-inform the operatives of the results of the air test and, if satisfactory, all polythene and adhesive tape will then be removed, during which time background / reassurance air tests will be conducted by the consultant. This material will also be disposed of as asbestos waste.

Asbestos removal will be undertaken by a team of trained operatives, one of whom, will be posted outside the work enclosure to maintain the following;

1. Provision of supplies.
2. Function of plant and power supply.
3. Liaison with the supervising officer.
4. To act in the event of emergency.

Method of Work after Asbestos Removal

All surfaces will be vacuumed using vacuum units described above.

All surfaces and cables will be wiped down with anti static cloths (tac-rags).

All Asbestos waste will be removed as described in the waste removal procedures further in this method statement.

The site supervisor will then carry out a visual inspection. Only when he is satisfied will he instruct the asbestos consultant to carry out a visual inspection.

The work enclosure will now be ready for air clearance testing.

Legislation, Codes of Practice and Guidance Notes

All asbestos works will be carried out in accordance with the following.

- ❖ European Communities (Protection of Workers) (Exposure to Asbestos) Regulations, 1989 to 2000.

- ❖ European Communities (Protection of Workers) (Exposure to Asbestos) Regulations, (Amendment) 2000: SI No. 74 of 2000.
- ❖ S.H.W.W. (General Application) Regulations, 1993: SI No.44 of 1993.
- ❖ S.H.W.W. (Construction) Regulations, 2001: SI No.481 of 2001.
- ❖ S.H.W.W Act 2005.
- ❖ Safety Health and Welfare at Work(exposure to Asbestos) Regulations 2006
- ❖ European Communities (Dangerous Substances)(Marketing and use) Regulations, 2000: SI No. 107 of 2000
- ❖ European Communities (Asbestos Waste) Regulations, 1990: SI No. 30 of 1990.
- ❖ European Communities (Control of Water Pollution by Asbestos) Regulations, 1990: SI No 31 of 1990.
- ❖ Air Pollution Act, 1989 (Emission Limit Value for use of Asbestos) Regulations.

List of Guidance Notes (Prepared by the HSE, UK)

1. Approved Code of Practice; Work with Asbestos insulation, asbestos coating and asbestos insulation board.
2. EH10 (rev) Asbestos: Exposure limits and measurements of airborne dust concentrations.
3. EH35 (rev) Probable asbestos dust concentrations at construction processes.
4. EH71 Working with asbestos cement and asbestos insulation board.
5. EH37 (rev) Working with asbestos insulation board.
6. EH41 (rev) Respiratory protective equipment approved for use against asbestos.
7. EH47 (rev) The provision, use and maintenance of hygiene facilities for work with asbestos insulation and coatings.
8. EH50 Training operatives and supervisors for work with asbestos insulation and coatings.
9. EH51 Enclosures provided for work with asbestos insulation, coatings and insulating board.
10. EH52 Removal techniques and associated waste handling for asbestos insulation, coating and insulating board.
11. Health and Safety Guidance Note HSG 189/1&2.

PRICING SCHEDULE

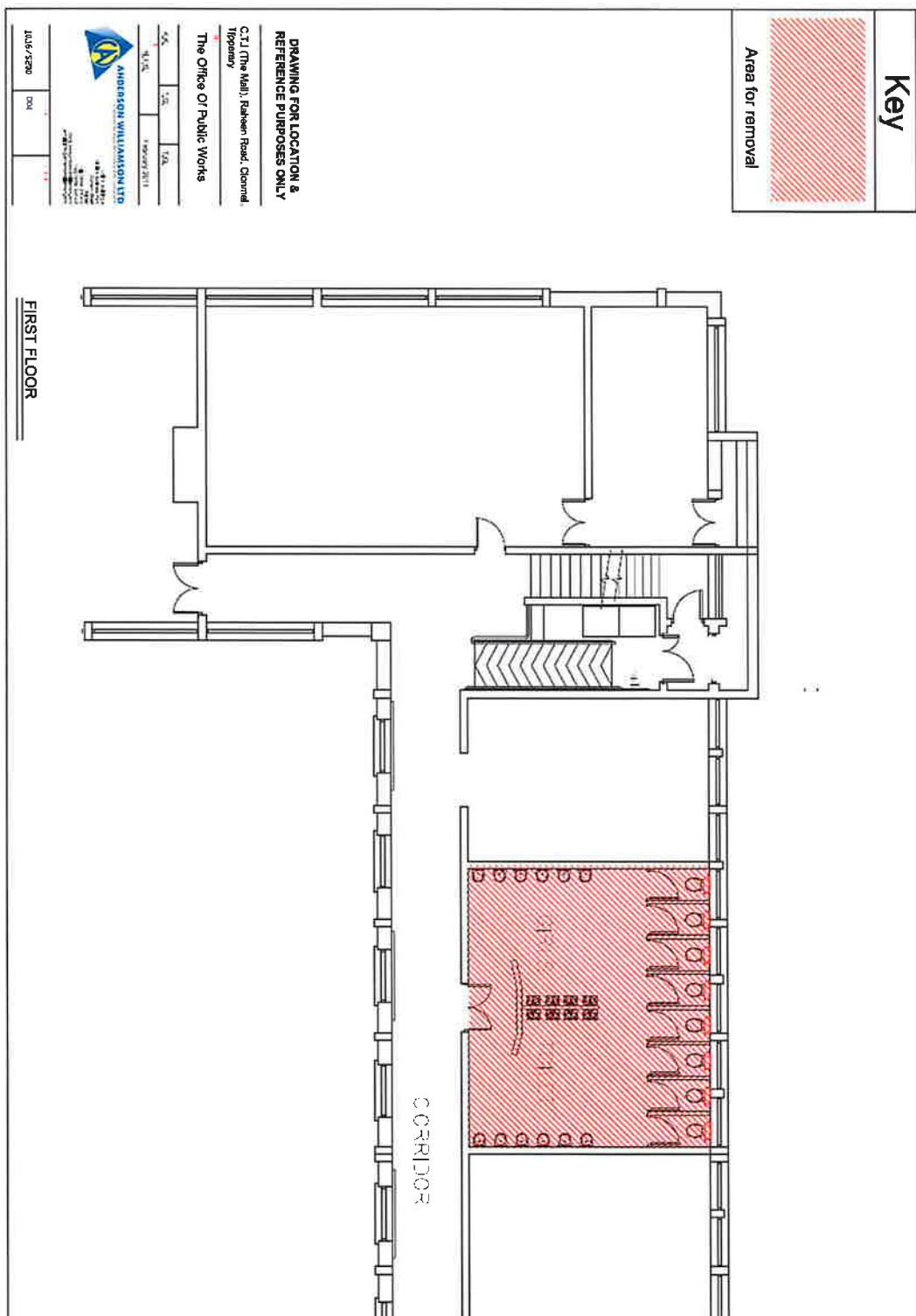
Removal of Asbestos from
C.T.I (The Mall)
Clonmel
Co Tipperary
RN 72420E

PRICING SCHEDULE

As part of the tender submission all contractors should complete the following schedule.

ITEM	ACTIVITY	PRICE(€)
1.	Preparation of risk assessment, method statement and Health & Safety Plan	
2.	Site Preliminaries i.e. setting up de-contamination unit, general welfare and storage accommodation.	
3.	Sealing off work areas	
4.	Removal and disposal of approx. 15 No. Amosite Toilet Cisterns	
7.	Reassurance air tests (costs for air clearance covered by OPW contact Anderson Williamson prior to removal)	
8.	Transportation of all Asbestos containing / contaminated material to Waste transfer facility and archiving Waste transfer dockets.	
	TOTAL (not including VAT)	

SCHEMATIC FLOOR PLAN



PRE-TENDER HEALTH AND SAFETY PLAN

Removal of Asbestos from

**C.T.I (The Mall)
Clonmel
Tipperary
RN 72420E**

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- 8.0 Overlap with Client's Undertakings
- 9.0 Site Rules
- 10.0 Continuing Liaison
- 11.0 Information Requirements Prior To Commencement.

1.0 **GUIDANCE NOTES TO CONTRACTORS**

- (1) **The Principal Contractor Shall Give A Method Statement Of their Proposals For Dealing With Each Of The Specific Health And Safety Risks In Accordance With The Safety, Health and Welfare at Work Act 2005 and with specific reference to the Safety Health and Welfare at Work(exposure to Asbestos) Regulations 2006.**

This Method Statement Will Include, But Not Be Restricted To:

- * Arrangements For Management Of Work
- * Arrangements For Monitoring Compliance
- * Arrangements For Welfare

- (2) In their Method Statements The Principal Contractor Shall Give The Outline Of All Proposed Methods Of Working. The Principal Contractor Shall Subsequently Agree Full Methods Of Working/Expanded Method Statement With The Planning Supervisor.
- (3) The Principal Contractor Shall Monitor The Health And Safety Plan Throughout The Course Of The Contract. Where There Is A Change In The Nature Of The Work, Or Of The Proposed Method Of Working, Except For Very Minor Changes, The Principal Contractor Shall Obtain The Approval Of The Project Supervisor To His Revised Safety Plan Prior To Proceeding With The Revised Work.
- (4) **The Principal Contractor Shall Provide A Copy Of their Firm's Health And Safety Policy/Statement (Emergency Procedures To Be Detailed)**
- (5) **When Requested The Prospective Principal Contractor Shall Submit Within 14 Days A Construction Phase Health And Safety Plan Developed From The Pre-Tender Health And Safety Plan. The Health And Safety Plan Will Be Forwarded To The Project Supervisor Who Shall Assess Its Adequacy With Regard To The Provision Of Relevant Risk Assessments And Method Statements.**
- (6) The Contractor shall provide a minimum of 14 days notice to the Health and Safety Authority of the intention to commence activities to remove asbestos.

PRE-TENDER HEALTH AND SAFETY PLAN

2.00 PROJECT INFORMATION

2.01 PROJECT DETAILS

TITLE: Removal of Asbestos from:
C.T.I (The Mall)
Clonmel
Tipperary
RN 72420E

CLIENT: **OPW**

CONTENT OF WORK Removal and disposal of the following:
15 No. Amosite Toilet Cisterns

Locations are identified on the schematic floor plan. No unusual or specific hazards associated with the removal job are evident. Waste asbestos products shall be disposed of in accordance with EPA guidelines. Adjacent areas are to be protected from airborne dust and are to be cleaned on completion. All relevant safety precautions are to be taken into account under relevant legislation.

PROGRAMME OF WORKS: The Programme of works is to be confirmed.

Programme deadlines to include removal of ACM's as per HSA guidelines and associated building works as per Contract Documents specifications.

Works to be completed as one phase only.

2.02 LOCATION

The works are to be carried out in various rooms throughout the school. See Floor Plans.

2.03 CLIENT

Office of Public Works
51 St. Stephens Green,
Dublin 2.

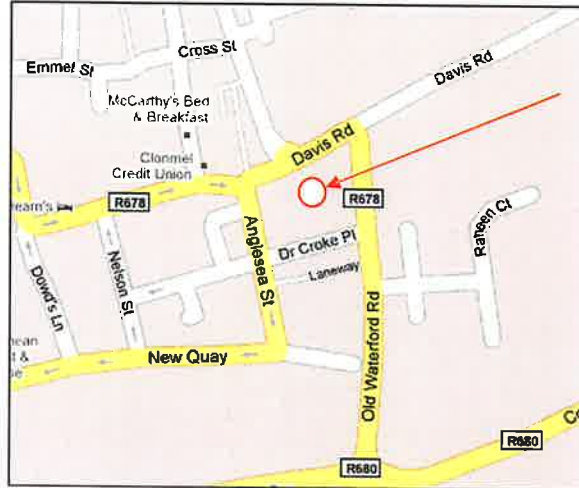
2.04 **APPOINTMENTS**

Project Supervisor:	Anderson Williamson Ltd Building 9 Unit 3 City Link Business Park Durham Street Belfast BT12 4HQ Tel.00442890279810
Principal Contractor	T.B.C

3.00 THE EXISTING ENVIRONMENT

3.01 SERVICES EXISTING

The site is located on the Davis road not far from the centre of the town of Clonmel. The main body of the premises consists of a 2 storey building with a modern 2 storey extension



3.02 SURROUNDING LAND USE

The building is not far from Clonmel Town centre .
The school is sited in an urban location surrounded by residential and commercial properties.

3.03 ACCESS TO THE SITE

The site will not be occupied during the period of the works. Access shall be made available within the curtilage of the site for plant set up and storage.

3.04 EXISTING CONDITIONS

The Principal Contractor shall acquaint himself with site conditions including: -

- (a) Existing buildings, roads, footpaths adjacent to the site which are in continuous daily use.
- (b) Site access routes
- (c) The space externally for site operations, site storage and contractors temporary buildings (see Appendix E)
- (d) Delivery of materials

The Principal Contractor must include in the construction phase Health and Safety Plan a construction programme organised to minimise noise, nuisance and disturbance to the Client's members of staff and adjacent property owners.

3.05 **WORKS OUTSIDE THE SECURED SITE BOUNDARY**

The Principal Contractor shall provide all necessary temporary screens and hoardings and take all necessary precautions to secure the work area and to protect adjoining areas from damage caused as a result of the removal operations. Similarly all hoardings and awnings shall be sufficient to protect the health and safety of the general public and to guard against unlawful entry.

3.06 **EXISTING TRAFFIC SYSTEMS AND RESTRICTIONS**

The Principal Contractor shall ensure that access is available at all times for fire appliances, refuse vehicles, ambulances and other emergency services.

The Principal Contractor shall submit a Health and Safety Plan showing in detail his proposed sequence of work, including the extent and timing of delivery of materials.

The Contractor shall make enquiries of the Highways, Refuse, Building Control, Police, Fire and Lighting Authorities regarding the sequencing the work and submit outline access and delivery proposals with his Health and Safety Plan. Detailed arrangements may be submitted for approval before the work may proceed. He shall also identify his method of providing safe routes for pedestrians where they may come into contact with construction operations.

The Contractor should attach a layout plan describing access/egress, pedestrian and vehicular controls, signage, loading/unloading and vehicle movements, site security arrangements, hoardings and lighting and the location of site accommodation and welfare facilities.

The Contractor shall take such steps as may be necessary to ensure that vehicles leaving the site do not deposit mud or other materials on the public roads system.

3.07 **GENERAL CONDITIONS**

Materials containing asbestos fibre are present within the building however the Principal contractor must be mindful of other biological, mineral and chemical contaminations that can pertain and have procedures in place if to deal with contamination/infestation from whatever source.

5.00 DESIGN MATTERS

For each section and sub-section in this part the Principal Contractor is required to detail in a method statement his proposals for dealing with the identified hazards or safety requirements. This list is not exhaustive and does not relieve the principal contractor of any obligations to identify and control other hazards.

5.01 GENERALLY

Significant hazards and work sequences have been identified by the designers which cannot be avoided or designed out of the project. The Principal Contractor must provide risk assessments for medium/high risk operations and his method statement for carrying out the operations.

The main hazards identified in the works for which provision must be made are listed below. This list is not exhaustive and does not relieve the Principal Contractor of any obligation to identify and control other hazards.

5.02 ASBESTOS

The Client is aware of the obligations under the Safety, Health and Welfare at Work Act 2005 and the Safety Health and Welfare at Work (exposure to Asbestos) Regulations 2006 to identify and manage any asbestos containing materials that may be within the premises. The contract primarily provides for the removal of asbestos. The Principal Contractor is to include in the construction phase Health & Safety Plan his Safety Method Statement for this work with specific regard to;

- (a) Provision for safe respiration.
- (b) Testing for and maintaining a safe atmosphere.
- (c) Suitable personal protective equipment.
- (d) Arrangements for safe access and egress.

5.03 WORKING IN OCCUPIED PREMISES

The Project requires work to be carried out in occupied premises. The Principal Contractor is to include in the construction phase Health & Safety Plan his Safety Method Statement for this work with specific regard to;

- Arrangements for safe access and egress.
- Emergency arrangements.
- Provision of adequate fire fighting equipment in the work space.

5.04 MANUAL HANDLING

Repetitive manual handling of elements over 20kg should be avoided. The Principal Contractor is to include in the construction phase Health & Safety plan his Safety Method Statement for the handling of heavy or awkward sized components.

5.05 **WORKING WITH ELECTRICITY**

The main hazard is risk of electrocution from working at and testing live equipment and circuits plus working with electrical tools etc, on site. The Principal Contractor is to include in the construction Health & Safety Plan his Safety Method Statements for this work with specific regard to the provision of suitable isolating equipment and safety procedures in respect of live equipment and circuits.

5.06 **PLANT AND MACHINERY**

All plant and machinery has to be suitable and in good working condition. Only trained operatives are to be in charge. Management of safety with regard to plant movement and operation near open trenches that may be unstable need to be considered. Also movement and operation in close proximity to buildings or walls and in areas accessible by the public. Adequate security for all plant and machinery must be provided to prevent access by unauthorised staff and the public.

A fire and emergency plan should be prepared which should address:-

- Means of escape
- Emergency signage
- Fire alarms
- Firefighting equipment
- Emergency lighting

Management procedures should be in place to ensure that all personnel present in the building are recorded and can be accounted for in the event of an emergency.

This list is not exhaustive nor does it address day to day construction hazards of which a competent Contractor would be expected to be aware and to safeguard against.

Removal of asbestos to be carried out in accordance with the Specification and the European Communities (Protection of Workers Exposure to Asbestos) Regulations 1989, The Safety, Health and Welfare at Work (Construction) Regulations 1995, The European Communities (Asbestos Waste) Regulations 1990 the Safety, Health and Welfare at Work Act 2005 and the Safety Health and Welfare at Work (exposure to Asbestos) Regulations 2006.

6.00 CONSTRUCTION MATERIALS

6.01 SPECIFIED MATERIALS

The health hazards arising from construction materials where particular precautions are required either because of their nature or the manner of their intended use have been identified by the designers which cannot be avoided or designed out. Although not an exhaustive list the Principal Contractor should refer to the Health & Safety And Welfare at Work Act 1989, Safety Statement (Section 12)

- Asbestos
- Proprietary insulation products associated with the Mechanical Services Installations pipework and ductwork

Where health hazards have been identified the Principal Contractor is to ensure that materials should be handled, stored and used in accordance with all Health & Safety Regulations. The Principal Contractor shall produce a Hazard Identification and Risk Assessment for these and all other substances to be used in the course of the construction of the project. Each assessment is to be supported by a method statement for carrying out work safely.

6.02 PRINCIPAL CONTRACTOR

The Principal Contractor shall indicate whether it is intended to store hazardous materials on site for purposes other than for inclusion in the works, and, if so, details must be given of all such materials, methods of storing, handling and use.

6.03 VENTILATION

The Principal Contractor is to be aware that the creation of dust, chemical fumes and vapours are associated with a number of the specified products. Adequate natural or suitable mechanical ventilation and dust control measures are required to works areas to ensure occupational exposure limits for dust, vapours or chemicals are not exceeded.

6.04 FIRE

The Principal Contractor is to be aware that a number of the specified products are classified as highly flammable or flammable. Handling, storage, uses and disposal of such products away from ignition sources is essential.

Highly flammable or flammable products require to be stored in suitable stores.

6.05 TOXIC GASES

The Principal Contractor is to be aware that:

A number of specified products, if exposed to fire, will burn and will give off toxic/harmful gases and smoke.

Handling, storage, use and disposal of such products away from ignition sources are essential.

7.00 SITE WIDE ELEMENTS

7.01 ACCESS AND EGRESS

The Principal Contractor shall position any site access and egress to minimise risk to other site users.

7.02 TEMPORARY SITE ACCOMMODATION

The Principal Contractor is required to provide details of any temporary site accommodation to be held on site and how it is proposed to keep it clean and free from vermin.

- (a) Contractors compound for safe and secure storage of materials, tools, equipment etc.
- (b) Site welfare facilities.

The Principal Contractor should also be aware of the following: -

Storage of specified flammable liquid, gases and hazardous substances and chemicals should be in properly constructed stores, in accordance with HSA Regulations, Manufacturers data sheets and relevant Government Legislation.

Stores should be located away from adjacent buildings.

Electric heating and lighting to site accommodation should be in accordance with I.E.E. Regulations.

Non electrical heating appliances should be of a suitable and safe type used and maintained in accordance with manufacturers' instructions.

7.03 UNLOADING AND STORAGE AREAS

The Principal Contractor is required to show how he proposes to manage the safe unloading and storage of materials, plant and fuel. Details of storage provisions must be provided for various work elements.

7.04 TRAFFIC / PEDESTRIAN ROUTES

The Principal Contractor is required to detail his proposals for:

- 1. Provision of warning signs.
- 2. Location of areas of huts for storage.
- 3. Arrangements for and frequency of cleaning of roads, footpaths in the event of their being dirtied arising from the works.
- 4. Maintaining safe access to adjoining building during the works.

7.05 **SITE SECURITY**

The Principal Contractor is required to detail his proposals for:

1. The provision and maintenance of security fencing, the location of which must be agreed upon.
2. The provision and maintenance of safe storage for fuel and hazardous materials, including their transport.
3. Prevention of trespass, both to the properties being worked on and to site accommodation.
4. The security of plant and equipment on site during the period of the contract.

There is to be adequate and suitable provision of security personnel on site for the duration of the contract.

7.06 **GENERALLY**

The Principal Contractor is to take all necessary precautions to prevent personal injury, death and damage to the works or other property from fire. HSA Guidelines should be consulted.

8.00 **OVERLAP WITH CLIENT UNDERTAKINGS**

- 8.01 The Client shall advise the principal Contractor, on request, of all known health & safety risks which may be encountered arising from buildings.
- 8.02 The Principal Contractor shall detail how safe access to and occupation of other buildings will be maintained during the works.

9.00 SITE RULES

The Principal Contractor shall detail his rules for:

1. First Aid
2. Welfare Facilities
3. Personal Protection Equipment
4. Canteen Facilities
5. Fire Fighting Equipment
6. Emergency Procedures
7. Permits to work
8. Legislation

The Principal Contractor is responsible for the safe working arrangements for his employees and the public on and adjacent to the site.

The Principal contractor is responsible for the training of his staff in all Health & Safety matters. Evidence should be given substantiating this training.

Site Health & Safety notices and warning signs are to be posted and to be clearly visible.

No site welding or thermal cutting of steel will be permitted on site.

Site to be kept clean and dust to be controlled and kept "dustless".

Playing radios not permitted.

Provide and maintain adequate and safe temporary power supplies and lighting to all working areas. All extension leads to be used must be maintained, used in a safe, non hazardous manner at all times and kept to a minimum where as far as it is reasonably practicable.

The Principal Contractor is to ensure that all electrical appliances, tools etc used on site must not exceed 110 volts.

Principal Contractor to keep all escape routes free from obstructions at all times. He is to ensure that all the Client's members of staff, workmen and visitors are made aware and shown escape routes etc.

Principal Contractor to provide adequate first aid resources, facilities and at least one qualified first aid person on site at all times.

Principal Contractor to ensure that a competent Health and Safety operative is available on site during the course of the work. A competent operative shall have accredited Health and Safety training and may combine the role with another trade or function.

The Principal Contractor shall provide all personal protective equipment (PPE) for the entire workforce at all times. He must also ensure that all contractors and their workforce must provide, maintain, have available and wear all PPE. All statutory mandatory, warning, prohibition and safe condition signs must be displayed at all times.

Principal Contractor to provide adequate welfare facilities as per the Safety, Health and Welfare at Work Regulations 1995.

Principal Contractor to generally serve all necessary notices, obtain all necessary licences and consents required from Health & Safety Agency/Inspectorate, Local Authority, Fire and Police Authorities etc.

Principal Contractor to ensure that all current Health & Safety Regulations, directives and legislation are enforced at all times.

The Principal Contractor must observe all rules that may become necessary to implement at any time during the contract construction phase.

On detection of a possible hazard during construction, the operations should be stopped safely and the Principal Contractor and site staff notified of hazard.

Once a Health & Safety issue arises the situation should be evaluated and if required the project supervisor contacted for advice.

All asbestos works will be carried out in accordance with the following.

- European Communities (Protection of Workers) (Exposure to Asbestos) Regulations, 1989 to 2000.
- European Communities (Protection of Workers) (Exposure to Asbestos) Regulations, (Amendment) 2000: SI No. 74 of 2000.
- S.H.W.W. (General Application) Regulations, 1993: SI No.44 of 1993.
- S.H.W.W. (Construction) Regulations, 2001: SI No.481 of 2001.
- S.H.W.W Act 2005.
- Safety Health and Welfare at Work(exposure to Asbestos) Regulations 2006
- European Communities (Dangerous Substances)(Marketing and use) Regulations, 2000: SI No. 107 of 2000
- European Communities (Asbestos Waste) Regulations, 1990: SI No. 30 of 1990.
- European Communities (Control of Water Pollution by Asbestos) Regulations, 1990: SI No 31 of 1990.
- Air Pollution Act, 1989 (Emission Limit Value for use of Asbestos) Regulations.

Copies of the following documents will be on side at all times during asbestos removal works:

1. Method Statement
2. Plant Maintenance Certificates
3. Operatives Medical and Training Records

10.00 CONTINUING LIAISON

10.01 PROCEDURES FOR DEALING WITH UNFORESEEN EVENTUALITIES DURING PROJECT EXECUTION RESULTING IN SUBSTANTIAL DESIGN CHANGE AND WHICH MIGHT AFFECT RESOURCES:-

As soon as an unforeseen eventuality arises, the project supervisor is to be informed.

Changes in circumstances which may affect the Contractor's Health and Safety Plan, sequence of working or the resources necessary to comply with Health and Safety Legislation, shall be referred to the Project Supervisor and accepted by the Client in writing before any change is implemented. This relates only to the Health and Safety aspects of the design and does not imply acceptance of the design by the Contract Administrator. The Principal Contractor should identify these items.

All details of Contractor designed elements and of any re-design and the Health & Safety implications including, if necessary, risk assessments and method statements are to be submitted to the Project Supervisor for consideration 7 days before the execution of the works.

PROCEDURES FOR CONSIDERATION AND ACCEPTANCE OF THE HEALTH AND SAFETY IMPLICATIONS OF DESIGN ELEMENTS OF THE PRINCIPAL CONTRACTOR'S AND OTHER CONTRACTOR'S PACKAGES ARE AS FOLLOWS:

Submit details of the health and safety issues to the project supervisor, together with the results of the risk assessment, to allow them to be considered and incorporated into the Health and Safety File as necessary. Such issues should also be incorporated into the construction phase Health and Safety Plan.

10.02 ASBESTOS REGISTER

The Principal Contractor shall provide the Project Supervisor with all relevant information which is required to be incorporated into the Asbestos Register.

11.00 INFORMATION REQUIREMENTS PRIOR TO COMMENCEMENT.

The Principal Contractor is required to provide the following information:

- | | |
|-------------------------|--|
| a) General | A copy of his corporate Health & Safety Policy Document |
| b) Management | <p>Details of the personnel and systems which will be put in place to manage, implement and monitor Health & Safety for the project.</p> <p>Details of the qualification held by the personnel nominated above, including details of relevant Health & Safety training or education undertaken by those personnel during the past 12 months.</p> <p>Procedures to be adopted for determining the competence of Principal Contractors, contractors engaged on the project, whether employed directly by the Principal Contractor or not, to fulfil the duties imposed by the Safety, Health and Welfare at Work Regulations 1995.</p> |
| c) Programme | An estimate of the time by the Principal Contractor to develop the Health & Safety Plan to a stage sufficient for works to properly commence on site. |
| d) Health & Safety Plan | The Contractors Construction Phase Health & Safety Plan will be required before work commences on site. |