GENERAL NOTES FOR BAMBOO SCAFFOLDS :

The contractor is recommended to refer to the following documents regarding their use :

1. Schedule 3 of the Construction Sites (Safety) Regulations for the requirements of working platform.
2. Code of Practice for Bamboo Scaffolding Safety issued by the Labour Department.
3. Guidelines on the Design and Construction of Bamboo Scaffolds issued by the Buildings Department.
4. Guidelines for the Removal of Typical Unauthorized Building Works and General Maintenance of External Walls issued by the Buildings Department.

REMARKS :

After the erection of the bamboo scaffold, the contractor needs to fill in the bamboo notification form (can be found in document (3) above) and fax to the Site Monitoring Section of the Buildings Department.

BELOW ARE THE COMMONLY USED BAMBOO SCAFFOLDS FOR REFERENCE.

(Ref.4 Figure 2)

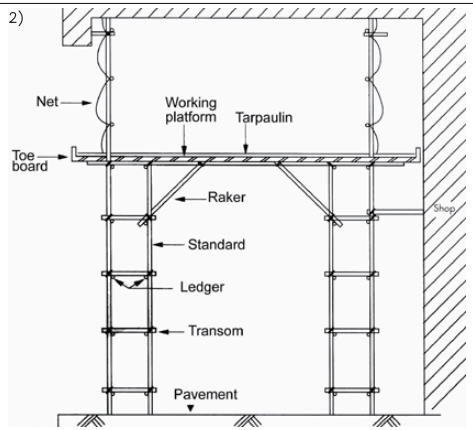


Figure 1 : Double row bamboo scaffold and working platform over pavement

(Ref.3 Diagram 5)

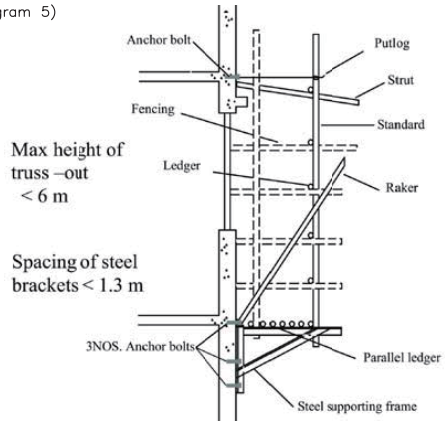
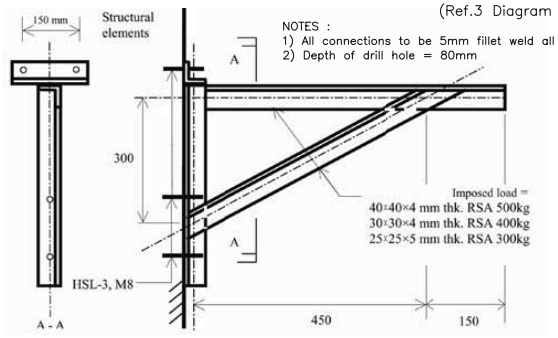


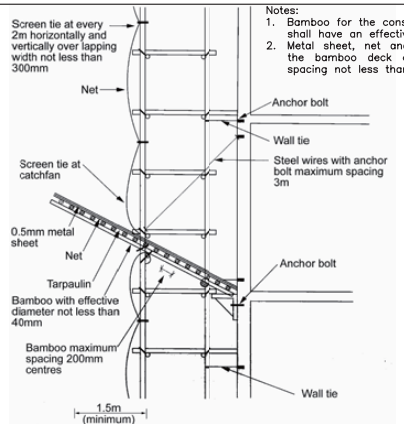
Figure 2 : Truss–out bamboo scaffold

(Ref.3 Diagram 8)



There may be occasions that a post of a bamboo scaffold does not rest on the steel bracket, the design engineer should ensure that the loading from the misaligned post can be effectively transferred to the steel bracket.

Base support for truss–out scaffold



(Ref.4 Figure 5)

Figure 3 : Typical detail for bamboo catchfan and screen cover

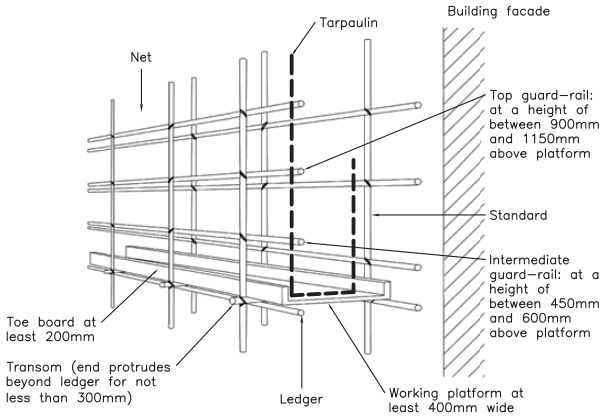


Figure 4 : Working platform on a double–row bamboo scaffold

(Ref.3 Diagram 6)

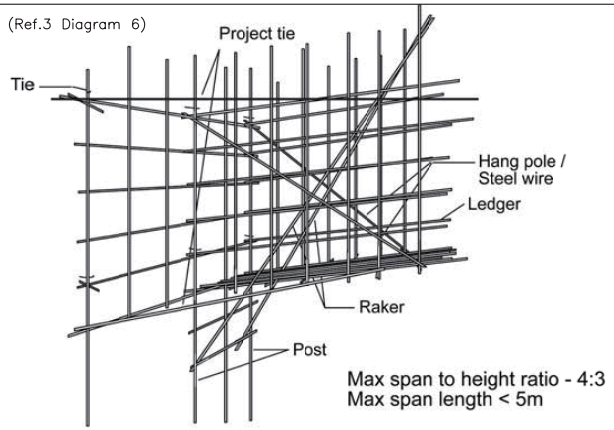


Figure 5 : Bamboo scaffold for signboard

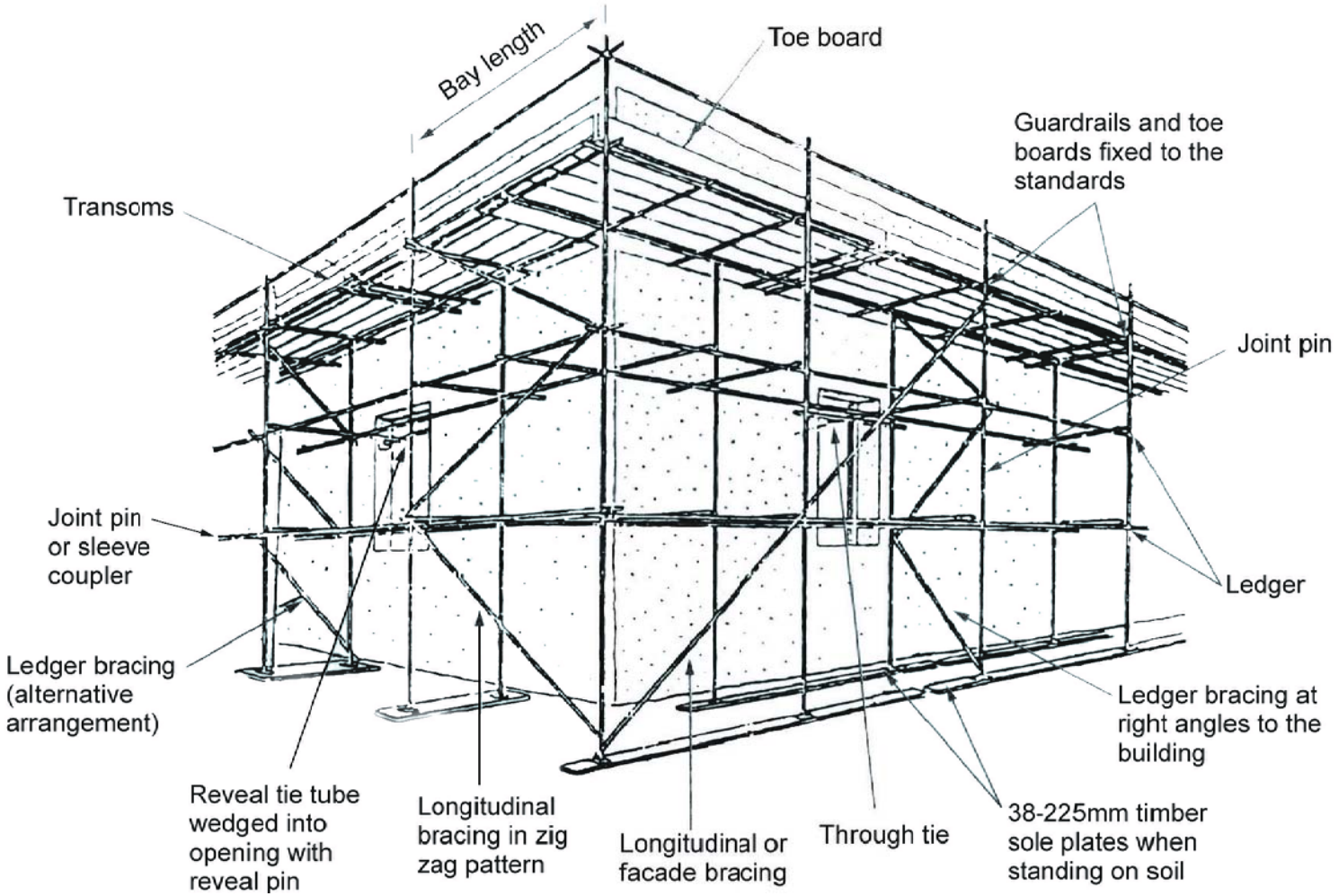
DRAWING NO. GN-1	GENERAL NOTES FOR BAMBOO SCAFFOLDING

GENERAL NOTES FOR METAL SCAFFOLDS :

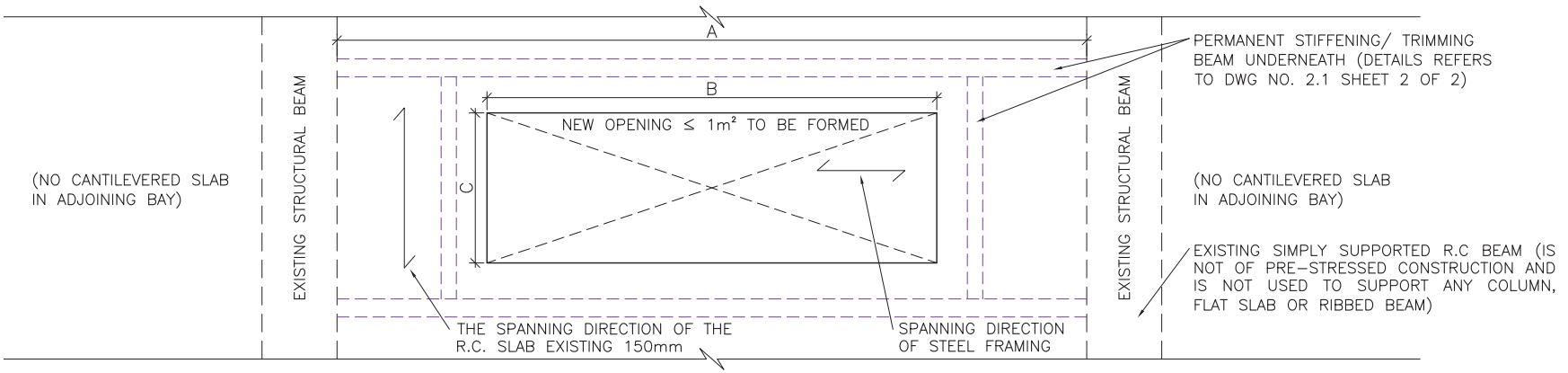
The contractor is recommended to refer to the following documents regarding their use :

1. Schedule 3 of the Construction Sites (Safety) Regulations for the requirements of working platform.
2. Code of Practice for Metal Scaffolding Safety issued by the Labour Department.
3. Guidelines for the Removal of Typical Unauthorized Building Works and General Maintenance of External Walls issued by the Buildings Department.

BELOW IS THE COMMONLY USED METAL SCAFFOLDS FOR REFERENCE.



DRAWING NO. GN-2	GENERAL NOTES FOR METAL SCAFFOLDING



GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
   - Building (Construction) Regulations
   - Code of Practice for the Structural Use of Concrete 2004
   - Code of Practice for the Structural Use of Steel 2005
   - Code of Practice for Fire Resisting Construction 1996
3. All structural steel to be grade S275 class 1 to BS EN 10210 for hollow sections and BS EN 10025 for other sections and shall be hot dip galvanized to BS EN ISO 1461 to at least 85 microns thick.
4. All welds should be comply with BS EN 1011 and all welding works to be carried out by qualified welder.
5. All connections to be 3mm fillet weld all round or butt weld with weld strength, pw = 220 N/mm² (Electrode Class 50) and all electrodes to BS EN ISO 2560.
6. All anchor bolts to be Hilti HSC-AR M10x40 and shall be installed according to the manufacturer's specification.
7. Concrete shall comply with CS1: 1990
8. All steel members shall be protected with "UNITHERM 38091" fire resistance paint or equivalent to provide with the required FRP of parent structure.

DESIGN DIMENSIONS :

A = 3m, B = 2m, C = 0.5m

DESIGN LOADS :

1. Original Dead Load = 3.60 kN/m²
2. Original Finish = 1.00 kN/m²
3. Original Live Load = 2.50 kN/m²

PREPARATION WORKS :

1. The contractor is required to submit the method statement to the Building Authority prior to the commencement of demolition works.
2. Obtain the existing design drawings/ information for reference prior to the commencement of works.
3. Carry out condition survey of the parent structure/ existing condition and submit structural design/ justification prior to the commencement of works.
4. Spanning direction(s) of existing slab to be checked from existing design drawing.
5. The existing parent structure must be checked to the satisfaction of structural adequacy prior to the installation of minor works item.

SAFETY AND PRECAUTIONARY MEASURES :

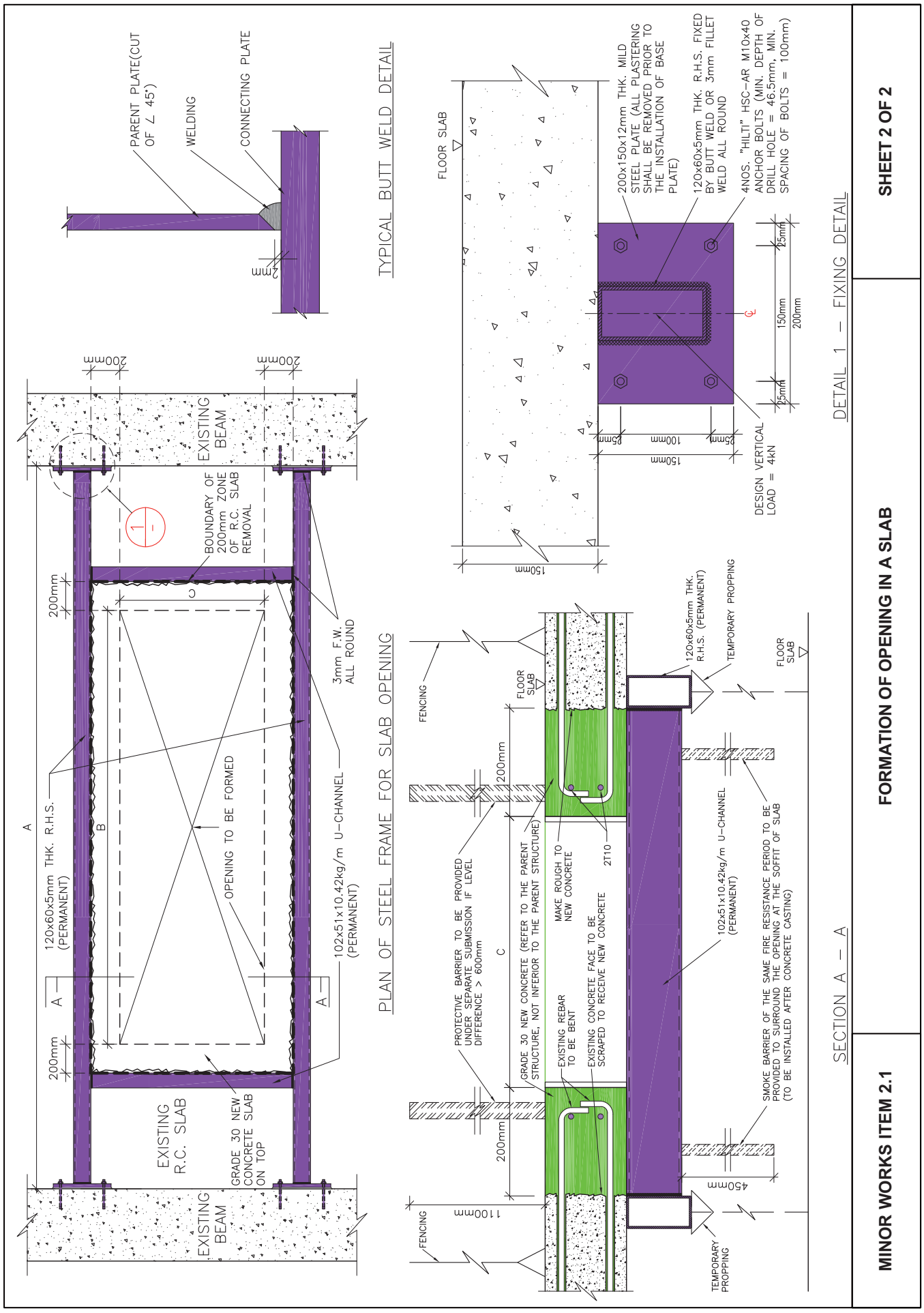
1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Prior to the commencement of works, the contractor is recommended to refer to Section 4 (Method of Demolition) of the Code of Practice for Demolition of Buildings for details of works.
3. Temporary Propping System shall be used to support the operation of concrete breaking or other loading during the demolition process on a suspended slab.

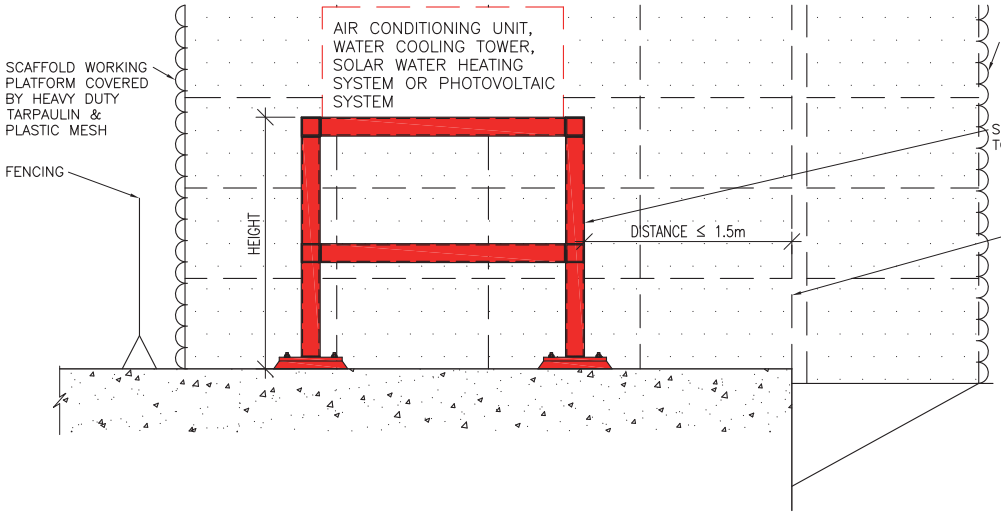
WORKING PROCEDURES :

1. Erect the permanent stiffening/ trimming beam and temporary proppings.
2. Break-off the existing concrete slab into small piece using mechanical hand-held tools to expose the reinforcing bars.
3. Cut the exposed reinforcement and form the edge of the new opening. Scrap the surface of concrete edge for receiving the new concrete.
4. Pour concrete after erecting formwork and reinforcing bar.
5. 48 hours after concrete casting, remove the formwork and back propping the slab with proper curing works. Remove the back propping until full strength of concrete is reached.
6. Arrange construction waste disposal.
7. Make good and reinstate the affected areas of the parent structure and clean the site.

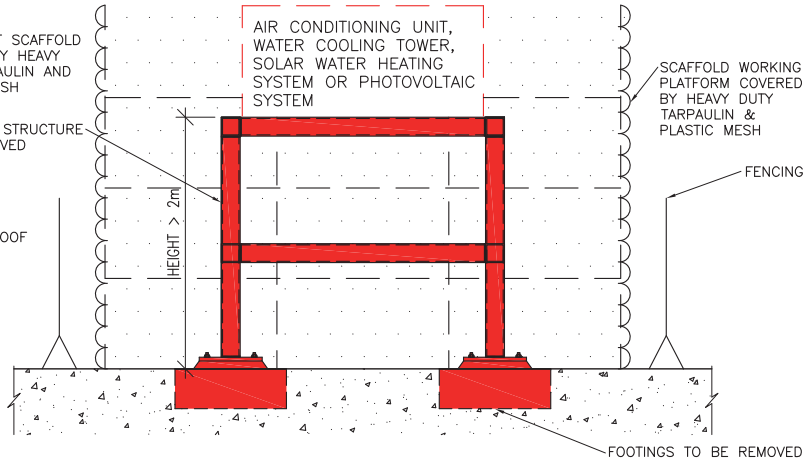
Remarks : This case excludes item 1 of the Designated Exempted Works.

MINOR WORKS ITEM 2.1	FORMATION OF OPENING IN A SLAB	SHEET 1 OF 2


MINOR WORKS ITEM 2.1
FORMATION OF OPENING IN A SLAB
SHEET 2 OF 2
DETAIL 1 – FIXING DETAIL
SECTION A – A
TYPICAL BUTT WELD DETAIL
PLAN OF STEEL FRAME FOR SLAB OPENING
PARENT PLATE(CUT OF ∠ 45°)
WELDING
CONNECTING PLATE
2mm
FLOOR SLAB
200x150x12mm THK. MILD STEEL PLATE (ALL PLASTERING SHALL BE REMOVED PRIOR TO THE INSTALLATION OF BASE PLATE)
120x60x5mm THK. R.H.S. FIXED BY BUTT WELD OR 3mm FILLET WELD ALL ROUND
4NOS. "HILTI" HSC–AR M10x40 ANCHOR BOLTS (MIN. DEPTH OF DRILL HOLE = 46.5mm, MIN. SPACING OF BOLTS = 100mm)
DESIGN VERTICAL LOAD = 4kN
150mm
100mm
25mm
15mm
150mm
200mm
EXISTING BEAM
BOUNDARY OF 200mm ZONE OF R.C. SLAB REMOVAL
200mm
120x60x5mm THK. R.H.S. (PERMANENT)
OPENING TO BE FORMED
3mm F.W. ALL ROUND
102x51x10.42kg/m U–CHANNEL (PERMANENT)
EXISTING R.C. SLAB
GRADE 30 NEW CONCRETE SLAB ON TOP
EXISTING BEAM
FENCING
FLOOR SLAB
PROTECTIVE BARRIER TO BE PROVIDED UNDER SEPARATE SUBMISSION IF LEVEL DIFFERENCE > 600mm
GRADE 30 NEW CONCRETE (REFER TO THE PARENT STRUCTURE, NOT INFERIOR TO THE PARENT STRUCTURE)
EXISTING REBAR TO BE BENT
EXISTING CONCRETE FACE TO BE SCRAPED TO RECEIVE NEW CONCRETE
MAKE ROUGH TO NEW CONCRETE
2T10
120x60x5mm THK. R.H.S. (PERMANENT)
TEMPORARY PROPPING
102x51x10.42kg/m U–CHANNEL (PERMANENT)
SMOKE BARRIER OF THE SAME FIRE RESISTANCE PERIOD TO BE PROVIDED TO SURROUND THE OPENING AT THE SOFFIT OF SLAB (TO BE INSTALLED AFTER CONCRETE CASTING)
450mm
1100mm
200mm
TEMPORARY PROPPING



CASE 1: ON A SLAB
(OR A CANTILEVERED SLAB OF SPAN ≤ 1m)



CASE 2: ON-GRADE

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)

PREPARATION :

1. Obtain the existing design drawings/ information for reference.
2. Inform the utilities company or sector if the works to be involved.
3. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
4. Obtain the original design of the approved structure for reference of any required reinstatement works.
5. Works procedures should be submitted to the Buildings Department prior to the commencement of works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence-off the working area from the public.
2. No accumulation of demolished parts should be stored on roof.
3. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1.
   - Figure 2 Truss-out bamboo scaffold
   - Figure 4 Working platform on a double-row bamboo scaffold

WORKING PROCEDURES :

A. For removal of supporting structure

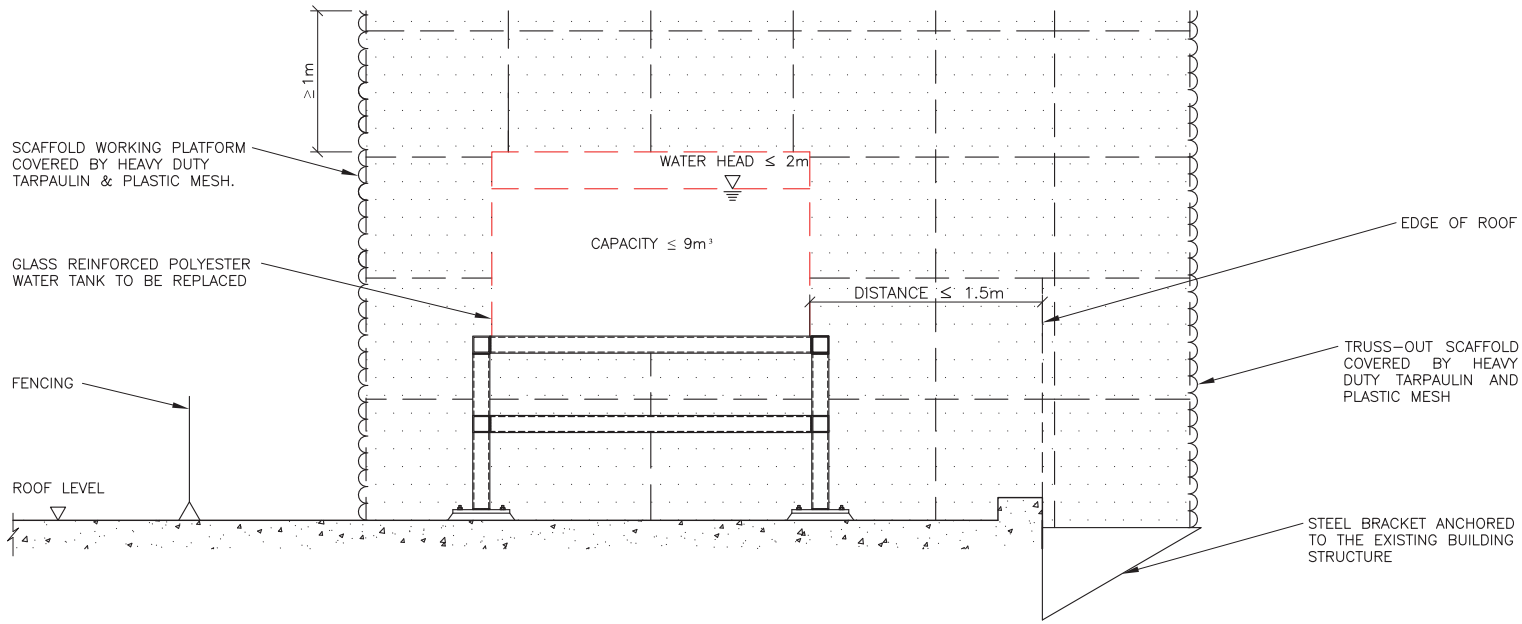
1. Disconnect all air conditioning unit/plant prior to any removal works.
2. Dismantle the steel members of supporting structure by oxy-acetylene torch to small pieces.
3. Demolish the concrete plinth or concrete mass of supporting structure by hand-held hydraulic breaker.
4. Debris from removal works should be put into bags and retrieved into the main building access for construction waste disposal.
5. Make good and reinstate the affected areas (including the waterproofing) where necessary.
6. Remove the bamboo scaffold and clean the site.

B. For removal of footings (For on-grade situation):

1. Carry out excavation and backfilling work in accordance with minor works item 2.11.
2. Break down the concrete footings into small pieces for construction waste disposal.
3. Backfill and reinstate the top surface.

Remarks: This case excludes minor works item 3.2.

MINOR WORKS ITEM 2.2	REMOVAL OF SUPPORTING STRUCTURE FOR AN AIR CONDITIONING UNIT, WATER COOLING TOWER, SOLAR WATER HEATING SYSTEM OR PHOTOVOLTAIC SYSTEM



GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)

PREPARATION WORKS :

1. Obtain the original design drawings/ information for reference prior to the commencement of works.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
3. Fabrication and installation method should be strictly in accordance with the manufacturer's specification.
4. Replacement of the water tank should be in accordance with the original design.

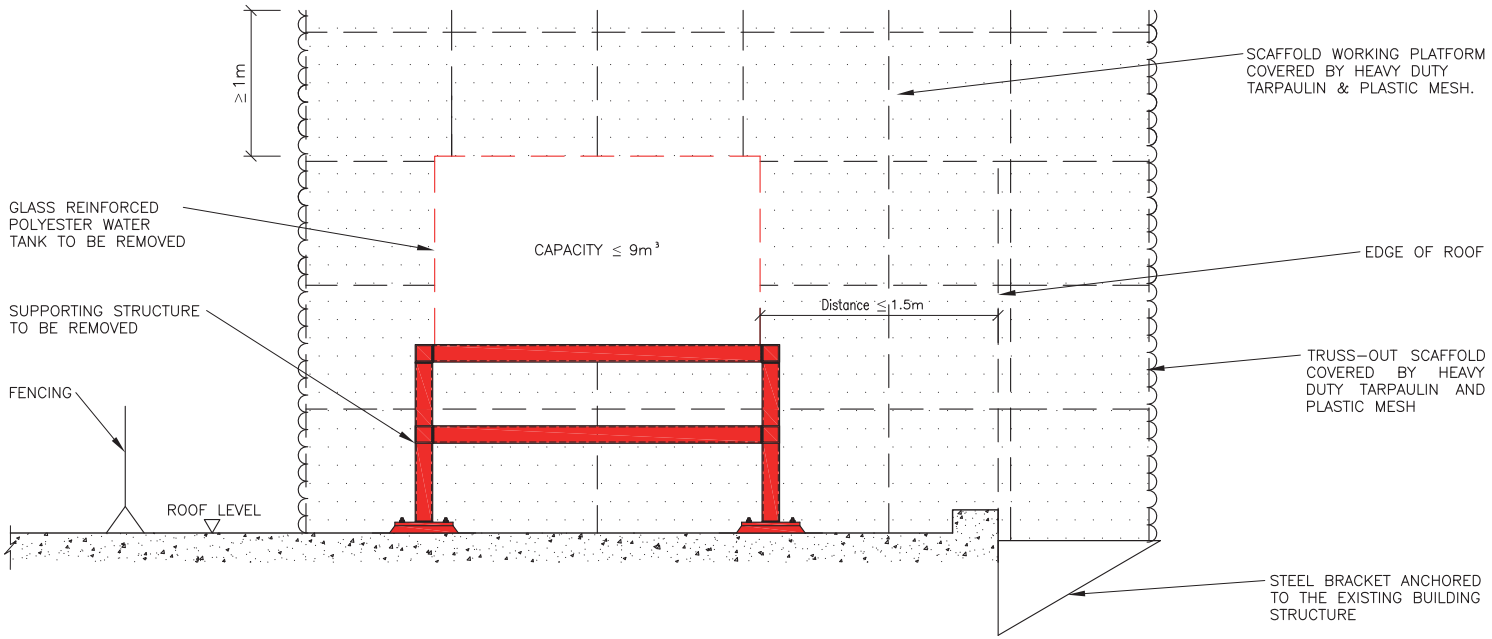
SAFETY AND PRECAUTIONARY MEASURES :

1. Fence–off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN–1.
   - Figure 2 Truss–out bamboo scaffold
   - Figure 4 Working platform on a double–row bamboo scaffold

WORKING PROCEDURES :

1. Disconnect all pipe works and cables connected to the water tank.
2. Remove the panels of the existing glass reinforced polyester water tank.
3. Reinstall the panels of the new glass reinforced polyester water tank in accordance with the original design.
4. Reconnect all pipe works and cables to the newly installed water tank.
5. Carry out test and commissioning to the newly installed water tank.
6. Remove scaffold and clean the site.

MINOR WORKS ITEM 2.3	REPLACEMENT OF GLASS REINFORCED POLYESTER WATER TANK LOCATED ON THE ROOF OF A BUILDING IN ACCORDANCE WITH THE ORIGINAL DESIGN



GENERAL NOTES :

The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)

PREPARATION WORKS :

1. Obtain the existing design drawings / information for reference.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
3. Obtain the original design of the approved structure for any required reinstatement works.

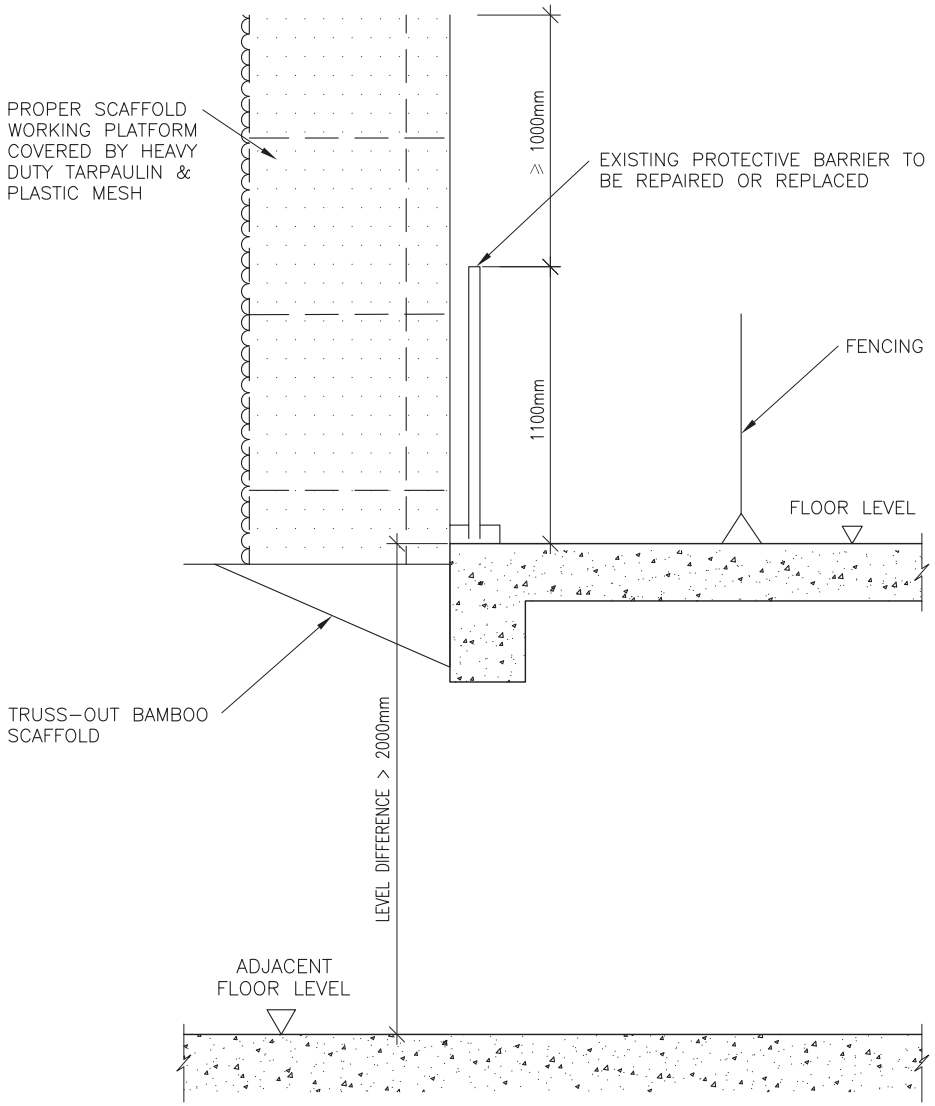
SAFETY AND PRECAUTIONARY MEASURES :

1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1.
   - Figure 2 Truss-out bamboo scaffold
   - Figure 4 Working platform on a double-row bamboo scaffold

WORKING PROCEDURES :

1. Remove the existing glass reinforced polyester water tank and any associated pipe work and cable if necessary. (Ensure all water pipes and electrical cable or wires have been disconnected prior to any removal works.)
2. Cut the supporting structure into manageable size by hand-held tools or machine and retrieve for construction waste disposal.
3. Make good and reinstate the affected areas (including waterproofing) where necessary.
4. Dismantle the bamboo scaffold and clean the site.

MINOR WORKS ITEM 2.4	REMOVAL OF GLASS REINFORCED POLYESTER WATER TANK LOCATED ON THE ROOF OF A BUILDING



GENERAL NOTES :

The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)

PREPARATION WORKS :

1. Obtain the original design drawings/ information for reference prior to the commencement of works
2. Carry condition survey of the parent structure/ existing condition prior to the commencement of works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence–off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figure as shown on drawing no. GN–1.
   - Figure 2 Truss–out bamboo scaffold

WORKING PROCEDURES :

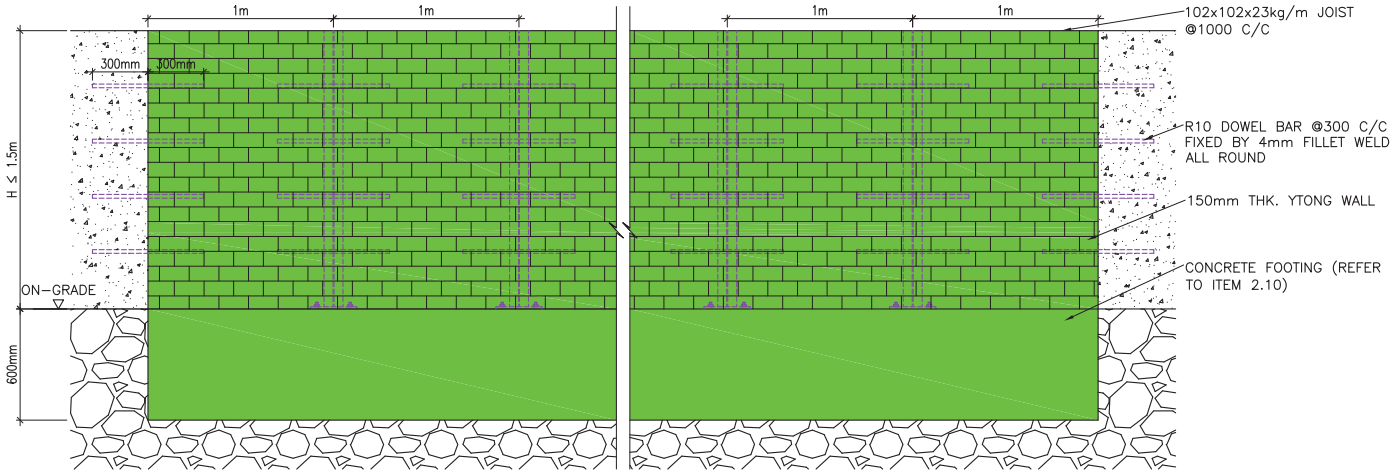
A. Repair

1. Remove the defective member of the protective barrier and replace with a new one in accordance with the original design.
2. Make good and reinstate the affected areas of the parent structure.
3. Remove the bamboo scaffold and clean the site.
4. All rubbish generated shall be disposed as construction waste.

B. Replacement

1. Remove the protective barrier.
2. Reinstall the protective barrier in accordance with the original design.
3. Make good and reinstate the affected areas of the parent structure.
4. Remove the bamboo scaffold and clean the site.
5. All rubbish generated shall be disposed as construction waste.

MINOR WORKS ITEM 2.5	REPAIR OR REPLACEMENT OF PROTECTIVE BARRIER (OTHER THAN AN EXTERNAL REINFORCED CONCRETE WALL OR BLOCK WALL)



ERECTION OF SOLID FENCE WALL

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
   - Building (Construction) Regulations
   - Code of Practice on Wind Effects in Hong Kong 2004
   - Code of Practice for the Structural Use of Steel 2005
   - Code of Practice for the Structural Use of Concrete 2004
   - Code of Practice for Foundations
   - BS 5628: Part 1: 2005 Code of Practice for the Use of Masonry. Structural Use of Unreinforced Masonry
   - Specifications and Method Statements for YTONG AAC Block Wall
3. All structural steel to be grade S275 class 1 to BS EN 10025 and shall be hot dip galvanized to BS EN ISO 1461.
4. All connections to be 4 mm fillet weld all round with weld strength, p_w = 220 N/mm² to BS EN 1011 and all electrodes to BS EN ISO 2560.
5. All anchor bolts to be Hilti HSA–R M16 and shall be installed according to the manufacturer's specification.
6. All YTONG AAC blocks shall comply with BS6073–1 as solid block with the minimum compressive strength of 4 N/mm² and the density of 650 kg/m³.
7. Mortar designation shall be Class (ii) to Table 1 of BS5628–1 with the mean compressive strength at 28 days of 4.5 N/mm² by site tests.
8. All concrete works shall comply with CS1.
9. Existing concrete grade is assumed to be Grade 30 with 75 mm concrete cover.
10. Steel reinforcement shall comply with CS2:1995 and shall be bent in accordance with BS 4466
11. Minimum anchorage and lap length are 600mm unless otherwise specified.
12. Minimum allowable ground pressure to be 50 kN/m².

DESIGN LOADS :

1. Wind Load = 1.82kN/m² with force coeff. 2.0 (5m above site ground level)

PREPARATION WORKS :

1. Obtain the existing design drawings/ information for reference prior to the commencement of works.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.
3. The structural adequacy of the supporting parent structure due to the additional installation of minor works must be checked to the satisfaction of structural requirement prior to the carrying out of minor works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence–off the working area from the public. Diversion arrangement shall be taken if necessary.

WORKING PROCEDURES :

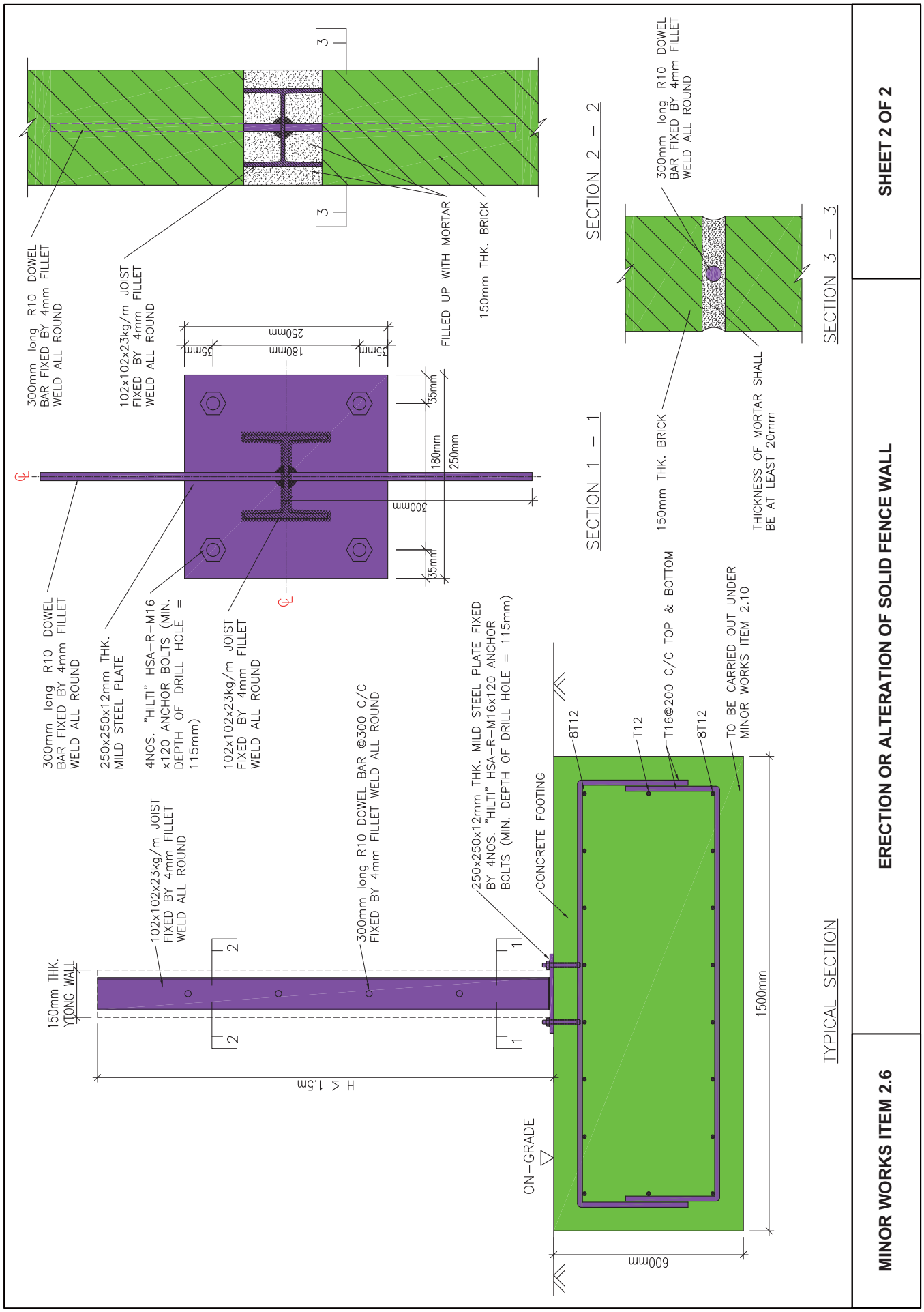
A. Erection
   1. Drill hole to the existing wall structure.
   2. Install dowel bar as per the drawing.
   3. Erect the block wall.
   4. Make good and reinstate the affected areas of the parent building and clean the site.

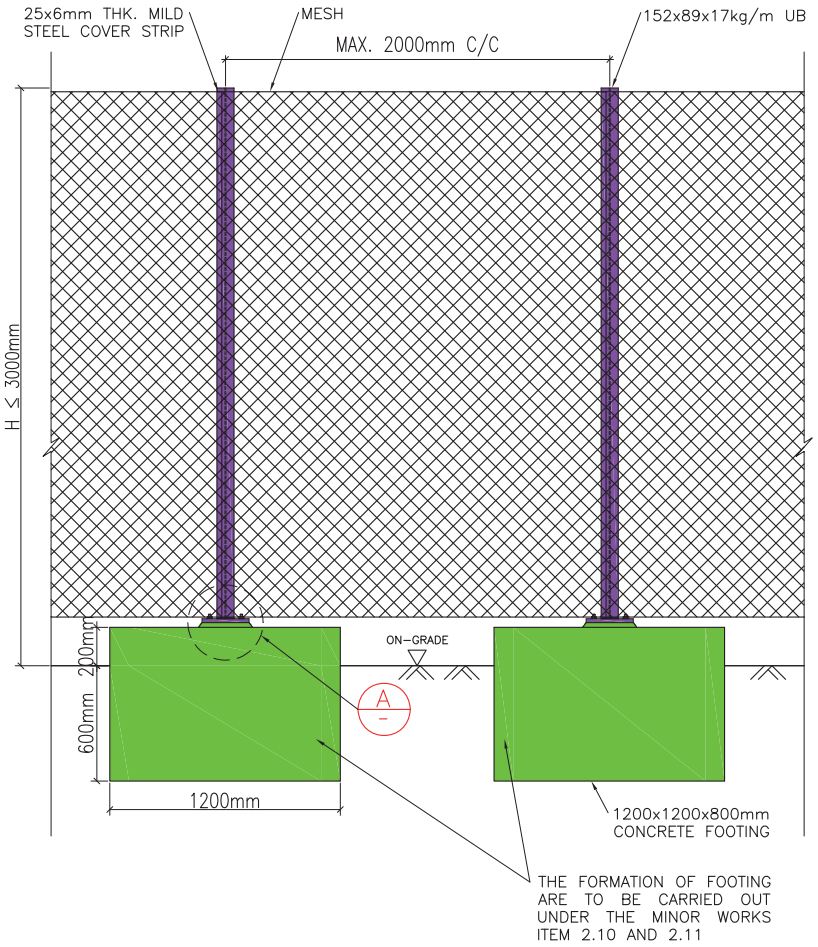
B. Alteration
   1. Break down the wall into small pieces for construction waste disposal.
   2. Replace the existing dowel bar by new dowel bar with same size.
   3. Alter the block wall.
   4. Make good and reinstate the affected areas of the parent building and clean the site.

Remarks :

1. For excavation works for the footings, please refer to minor works item 2.11.
2. For construction of spread footings, please refer to minor works item 2.10.

MINOR WORKS ITEM 2.6	ERECTION OR ALTERATION OF SOLID FENCE WALL	SHEET 1 OF 2


SECTION 1 – 1
SECTION 2 – 2
SECTION 3 – 3
TYPICAL SECTION
300mm long R10 DOWEL BAR FIXED BY 4mm FILLET WELD ALL ROUND
102x102x23kg/m JOIST FIXED BY 4mm FILLET WELD ALL ROUND
FILLED UP WITH MORTAR
150mm THK. BRICK
250x250x12mm THK. MILD STEEL PLATE
4NOS. "HILTI" HSA-R-M16 x120 ANCHOR BOLTS (MIN. DEPTH OF DRILL HOLE = 115mm)
102x102x23kg/m JOIST FIXED BY 4mm FILLET WELD ALL ROUND
300mm long R10 DOWEL BAR @300 C/C FIXED BY 4mm FILLET WELD ALL ROUND
250x250x12mm THK. MILD STEEL PLATE FIXED BY 4NOS. "HILTI" HSA-R-M16x120 ANCHOR BOLTS (MIN. DEPTH OF DRILL HOLE = 115mm)
CONCRETE FOOTING
T16@200 C/C TOP & BOTTOM
T12
8T12
TO BE CARRIED OUT UNDER MINOR WORKS ITEM 2.10
THICKNESS OF MORTAR SHALL BE AT LEAST 20mm
150mm THK. YTONG WALL
ON-GRADE
H ≤ 1.5m
1500mm
600mm
250mm
180mm
35mm
MINOR WORKS ITEM 2.6
ERECTION OR ALTERATION OF SOLID FENCE WALL
SHEET 2 OF 2



ERECTION OF EXTERNAL MESH FENCE

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
   Building (Construction) Regulations
   - Code of Practice on Wind Effects in Hong Kong 2004
   - Code of Practice for the Structural Use of Steel 2005
   - Code of Practice for the Structural Use of Concrete 2004
   - Code of Practice for Foundations
3. All structural steel to be grade S275 class 1 to BS EN 10025 and shall be hot dip galvanized to BS EN ISO 1461.
4. All connections to be 4 mm fillet weld all round or butt weld with weld strength, pw = 220 N/mm² to BS EN 1011 and all electrodes to BS EN ISO 2560.
5. All anchor bolts to be Hilti HIT–HY150 + HAS–R M16 and shall be installed according to the manufacturer's specification.
6. All concrete works shall comply with CS1.
7. Concrete grade and cover shall be grade 30 and 75 mm respectively.
8. Steel reinforcement shall comply with CS2:1995 and shall be bent in accordance with BS 4466.
9. Minimum anchorage and lap length are 600mm unless otherwise specified.
10. Minimum allowable ground pressure to be 50 kN/m².
11. Type of steel mesh to be No. 10 gauge 50mm mesh chain link.

DESIGN LOADS :

1. Dead Load = 0.5kN/m²
2. Wind Load = 1.82kN/m² with force coeff. of 1.85 and solidity ratio of 0.15

PREPARATION WORKS :

1. Obtain the existing design drawings/ information for reference prior to the commencement of works.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence–off the working area from the public. Diversion arrangement shall be taken if necessary.

WORKING PROCEDURES :

A. Erection

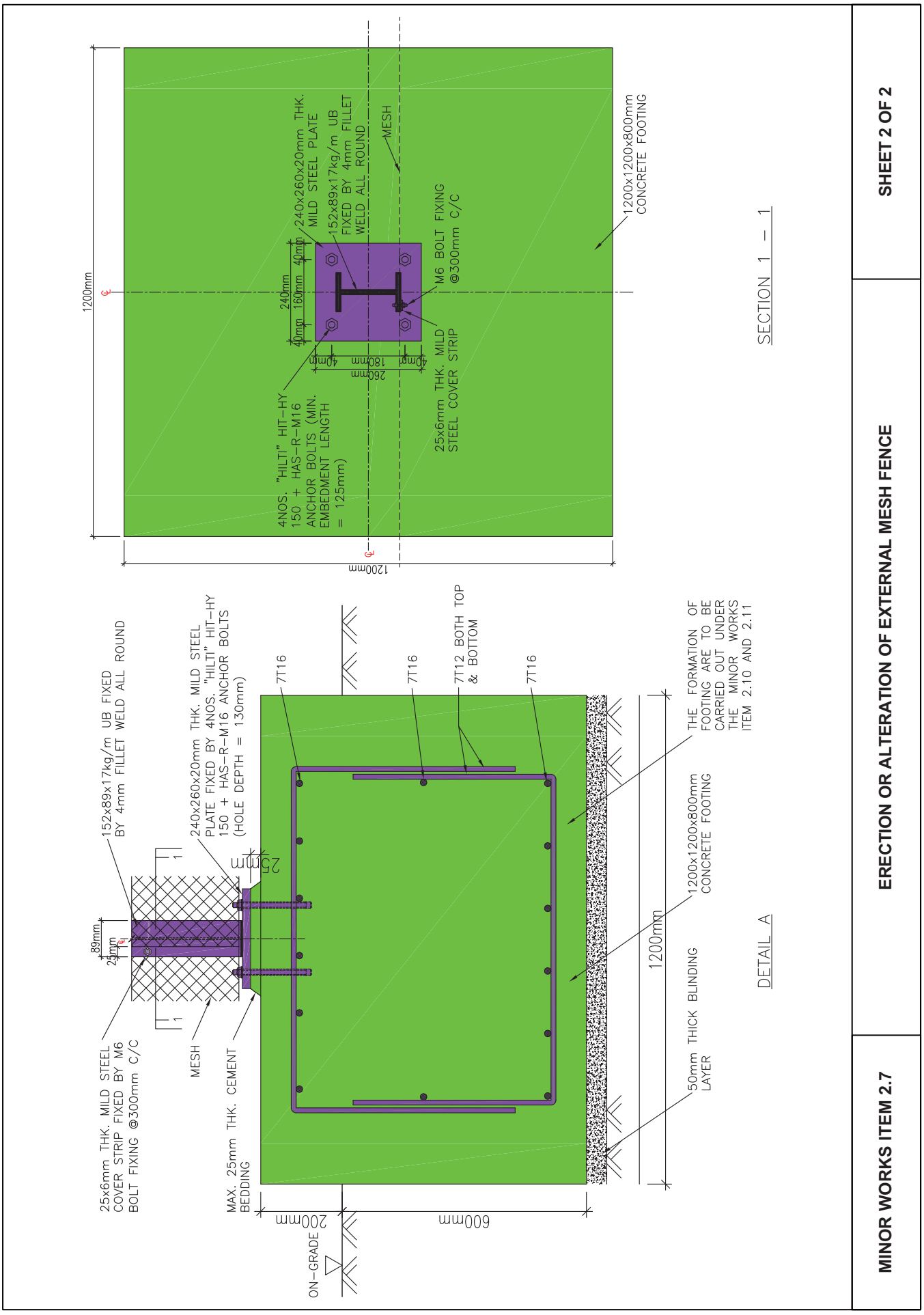
1. Formation of spread footing shall take reference on item 2.10.
2. Drill holes to the footing structure for holding down bolts installation.
3. Install holding down bolts and grout the drilled holes.
4. Erect UB Post and fix line wire panel.
5. Make good and reinstate any affected areas of the adjoining street works and clean the site.

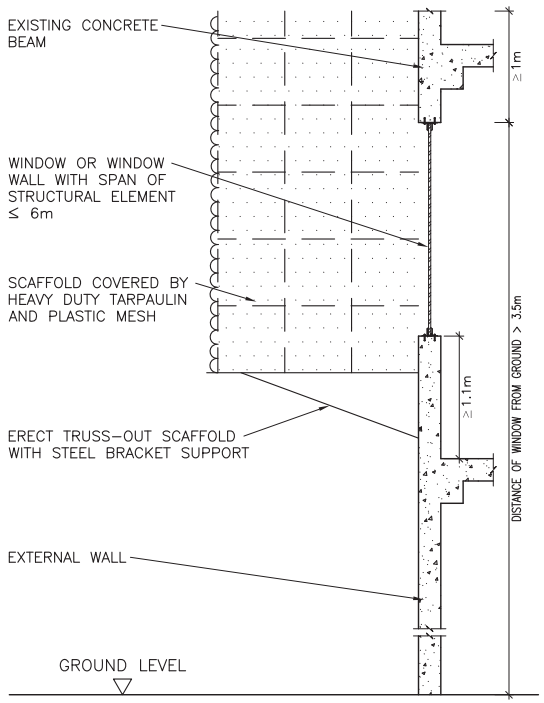
B. Alteration

1. Break down the UB Post into small pieces for construction waste disposal.
2. Replace the existing bolts and wire panel by new bolts and panel with same size.
3. Make good and reinstate the affected areas of the adjoining street works and clean the site.

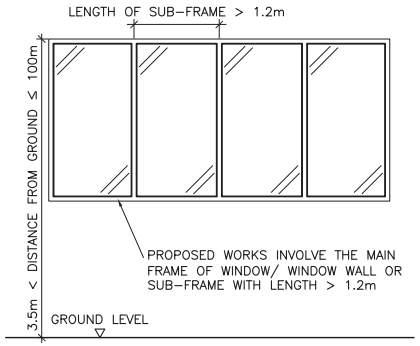
Remarks : For excavation works & construction of spread footings, please refer to minor works items 2.11 & 2.10 respectively.

MINOR WORKS ITEM 2.7	ERECTION OR ALTERATION OF EXTERNAL MESH FENCE	SHEET 1 OF 2

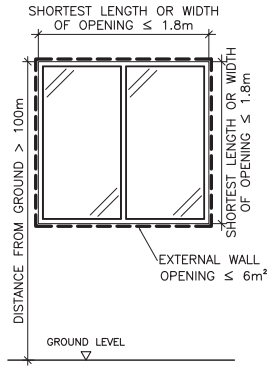

1200mm
1200mm
1200x1200x800mm CONCRETE FOOTING
MESH
240x260x20mm THK. MILD STEEL PLATE
152x89x17kg/m UB FIXED BY 4mm FILLET WELD ALL ROUND
M6 BOLT FIXING @300mm C/C
25x6mm THK. MILD STEEL COVER STRIP
4NOS. "HILTI" HIT-HY 150 + HAS-R-M16 ANCHOR BOLTS (MIN. EMBEDMENT LENGTH = 125mm)
40mm
160mm
260mm
SECTION 1 – 1
7T16
7T12 BOTH TOP & BOTTOM
THE FORMATION OF FOOTING ARE TO BE CARRIED OUT UNDER THE MINOR WORKS ITEM 2.10 AND 2.11
1200mm
50mm THICK BLINDING LAYER
25mm
89mm
25mm
MESH
MAX. 25mm THK. CEMENT BEDDING
200mm
600mm
ON-GRADE
DETAIL A
MINOR WORKS ITEM 2.7
ERECTION OR ALTERATION OF EXTERNAL MESH FENCE
SHEET 2 OF 2



WINDOW OR WINDOW WALL



CONDITION DIAGRAM 1(3.5m < DISTANCE FROM GROUND ≤ 100m)



CONDITION DIAGRAM 2(DISTANCE FROM GROUND > 100m)

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. The requirements of PNAP APP-116 and PNRC 47 should be followed for the standards and details of aluminium windows and fixing of hinges.
3. All works shall comply with the following CoP/ standards:
   - Building (Construction) Regulations
   - Code of Practice on Wind Effects in Hong Kong 2004
   - Code of Practice for the Structural Use of Steel 2005
   - Code of Practice for the Structural Use of Concrete 2004
   - British Standard BS 6262 – Structural Use of Glass in Building
4. All structural steel plates and angles to be Grade S275 to BS EN 10029 and BS EN 10056 respectively. All steelworks shall be hot dip galvanized to BS EN ISO 1461.
5. All anchor bolts to be HILTI HSC-AR M10x40 @ 250 mm c/c and shall be installed according to the manufacturer's specifications.
6. All glass panels to be monolithic tempered glass with the allowable stress of 50 N/mm² to BS 6262.
7. Non-structural silicone sealant to be Dow Corning 791 or equivalent.
8. Structural silicone sealant to be Dow Corning 795 or equivalent. Maximum allowable design strength is 138 N/mm².
9. Existing concrete grade is assumed to be Grade 20 with the min. cube strength of 20N/mm².
10. The works do not result in any additional load to any cantilevered slab.
11. Size of glass should be 2mm smaller than the opening size to allow thermal expansion.
12. Proposed works do not involve the alteration of any other structural elements, except a simply supported beam that:
    (i) is not of pre-stressed construction; and
    (ii) is not used to support any column, flat slab or ribbed beam

PREPARATION WORKS :

1. Obtain the original design drawings/ information for reference prior to the commencement of works.
2. Inform the utilities company or sector if the works to be involved.
3. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.

DESIGN LOADS/ ASSUMPTION :

1. Dead Load = 27 kN/m³
2. Wind Load = 4.27 kN/m² with total pressure coeff. of 1.4 (150m above site ground level)
3. 19mm THK. tempered glass and its fixing is designed for glass span of 2.1m, spanning one-way.

SAFETY AND PRECAUTIONARY MEASURES

1. Fence-off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN-1.
   - Figure 2 Truss-out bamboo scaffold
   - Figure 4 Working platform on a double-row bamboo scaffold

WORKING PROCEDURES :

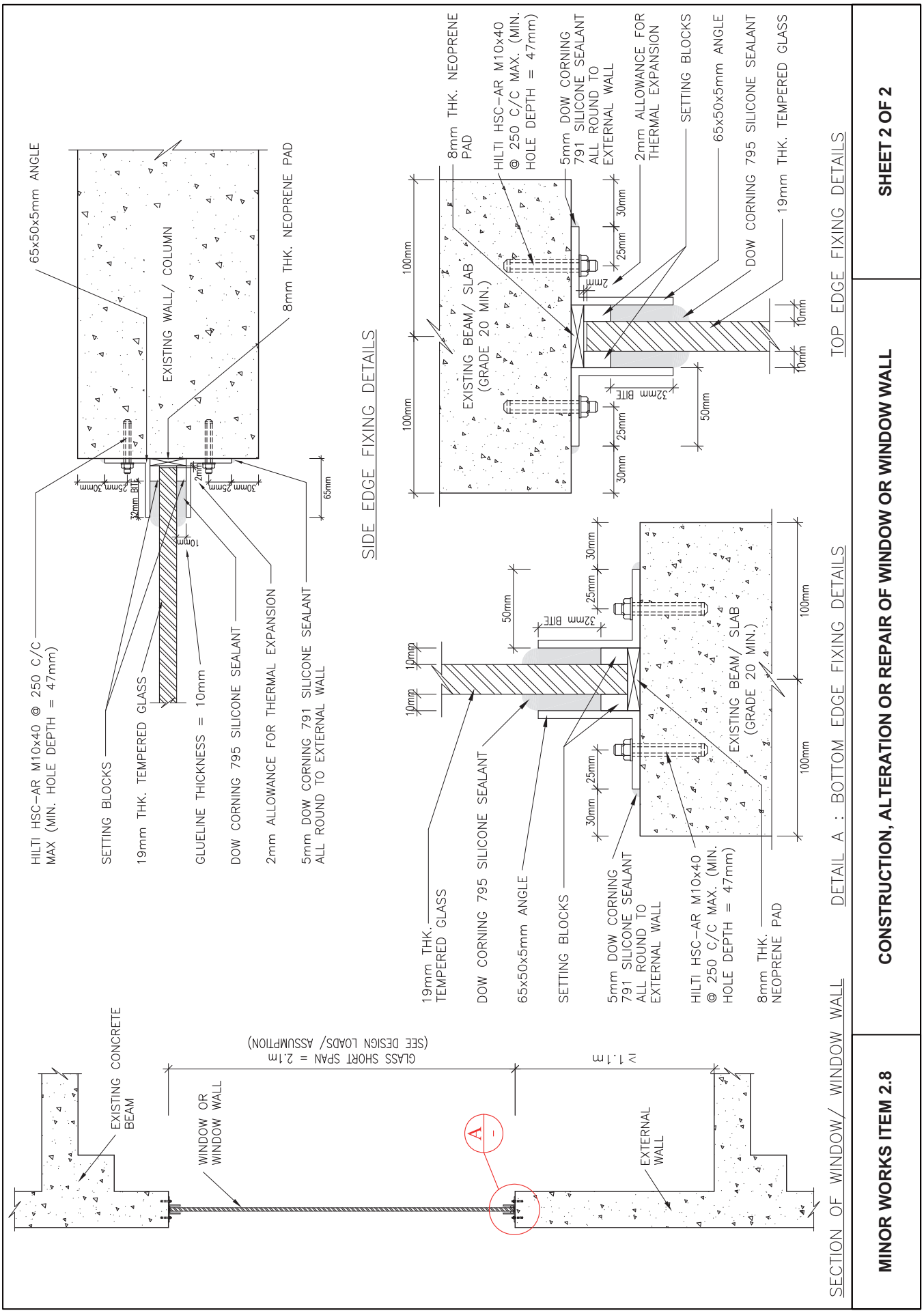
A. Installation
   1. Setting out the level and alignment of the window frame onto the wall.
   2. Place the window frame into correct setting out.
   3. Fix the angle and neoprene pad in accordance with the original design.
   4. Seal up the gap between the edge of opening and window frames by using non-shrink cementitious grout.
   5. Make good and reinstate the affected areas of the parent building.
   6. Dismantle the bamboo scaffold and clean the site.

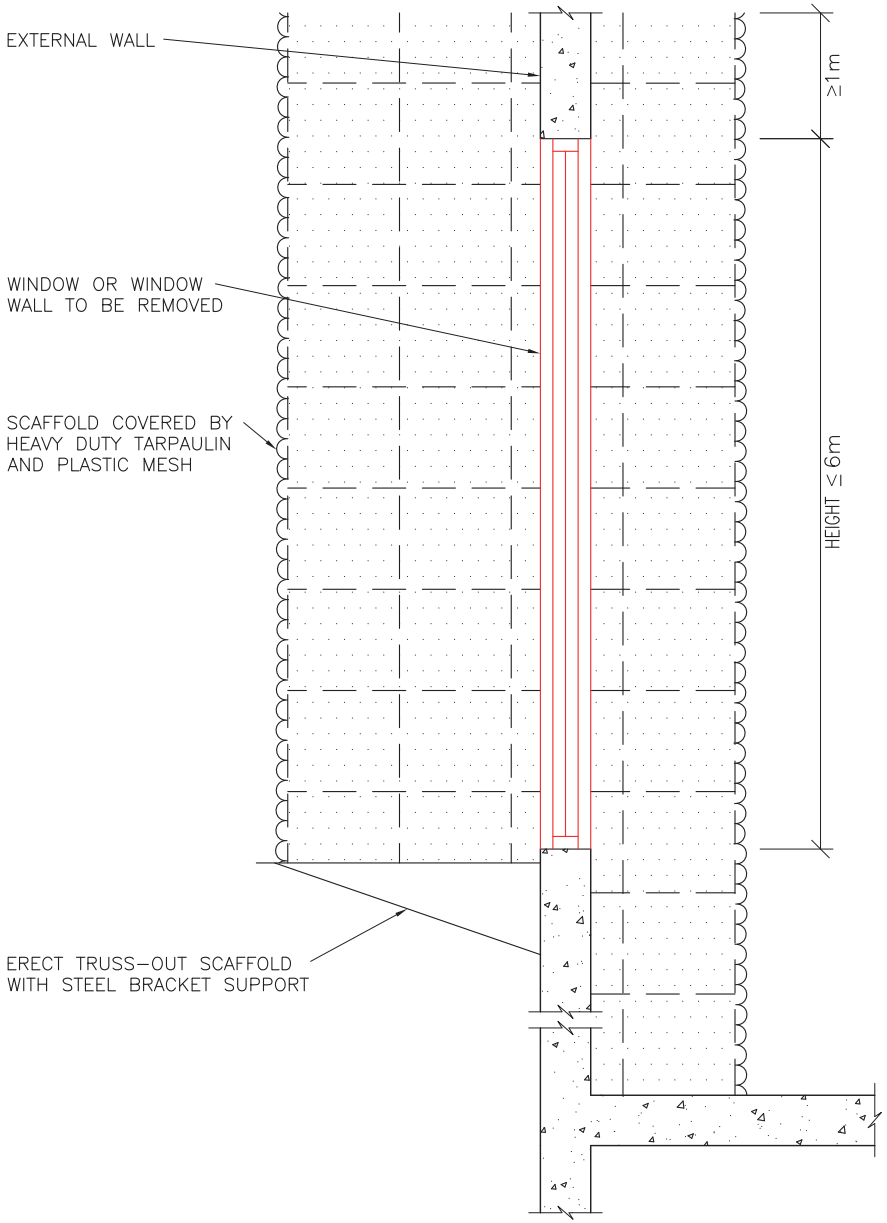
B. Alteration
   1. Temporary fix the window frame to a rigid point by using proper stainless steel wire/ nylon.
   2. Break off the concrete surrounding of the original window frame by hand-held hydraulic breaker. Allow 25mm to 75mm between the edge of opening and window frames.
   3. Cut off the original steel angle.
   4. Remove the original window glass and install the new window frames and glass according to the new design.
   5. Make good and reinstate the affected areas of the parent building.
   6. Dismantle the bamboo scaffold and clean the site.

C. Repair
   1. Temporary fix the window frame to a rigid point by using proper stainless steel wire/ nylon rope.
   2. Remove the defective window glass and using the same size of glass for replacement.
   3. Make good and reinstate the affected areas of the parent building.
   4. Dismantle the bamboo scaffold and clean the site.

Remarks:
1. For making opening on non-loadbearing external wall, please refer to minor works item 1.15, 2.13, 2.14 or 3.11 where appropriate.
2. For removal of existing window or window wall, please refer to minor works item 2.9.

MINOR WORKS ITEM 2.8	CONSTRUCTION, ALTERATION OR REPAIR OF WINDOW OR WINDOW WALL	SHEET 1 OF 2


SECTION OF WINDOW/ WINDOW WALL
EXISTING CONCRETE BEAM
WINDOW OR WINDOW WALL
GLASS SHORT SPAN = 2.1m
(SEE DESIGN LOADS/ ASSUMPTION)
EXTERNAL WALL
DETAIL A : BOTTOM EDGE FIXING DETAILS
19mm THK. TEMPERED GLASS
DOW CORNING 795 SILICONE SEALANT
65x50x5mm ANGLE
SETTING BLOCKS
5mm DOW CORNING 791 SILICONE SEALANT ALL ROUND TO EXTERNAL WALL
HILTI HSC-AR M10x40 @ 250 C/C MAX. (MIN. HOLE DEPTH = 47mm)
8mm THK. NEOPRENE PAD
EXISTING BEAM/ SLAB (GRADE 20 MIN.)
TOP EDGE FIXING DETAILS
8mm THK. NEOPRENE PAD
HILTI HSC-AR M10x40 @ 250 C/C MAX. (MIN. HOLE DEPTH = 47mm)
5mm DOW CORNING 791 SILICONE SEALANT ALL ROUND TO EXTERNAL WALL
2mm ALLOWANCE FOR THERMAL EXPANSION
SETTING BLOCKS
65x50x5mm ANGLE
DOW CORNING 795 SILICONE SEALANT
19mm THK. TEMPERED GLASS
SIDE EDGE FIXING DETAILS
65x50x5mm ANGLE
EXISTING WALL/ COLUMN
8mm THK. NEOPRENE PAD
HILTI HSC-AR M10x40 @ 250 C/C MAX (MIN. HOLE DEPTH = 47mm)
SETTING BLOCKS
19mm THK. TEMPERED GLASS
GLUELINE THICKNESS = 10mm
DOW CORNING 795 SILICONE SEALANT
2mm ALLOWANCE FOR THERMAL EXPANSION
5mm DOW CORNING 791 SILICONE SEALANT ALL ROUND TO EXTERNAL WALL
MINOR WORKS ITEM 2.8
CONSTRUCTION, ALTERATION OR REPAIR OF WINDOW OR WINDOW WALL
SHEET 2 OF 2



GENERAL NOTES :

The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)

PREPARATION WORKS :

1. Obtain the existing design drawings/ information for reference.
2. Carry out condition survey of the parent structure/ existing condition prior to the commencement of works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence–off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Bamboo scaffolds details shall refer to the following figures as shown on drawing no. GN–1.
   - Figure 2 Truss–out bamboo scaffold
   - Figure 4 Working platform on a double–row bamboo scaffold

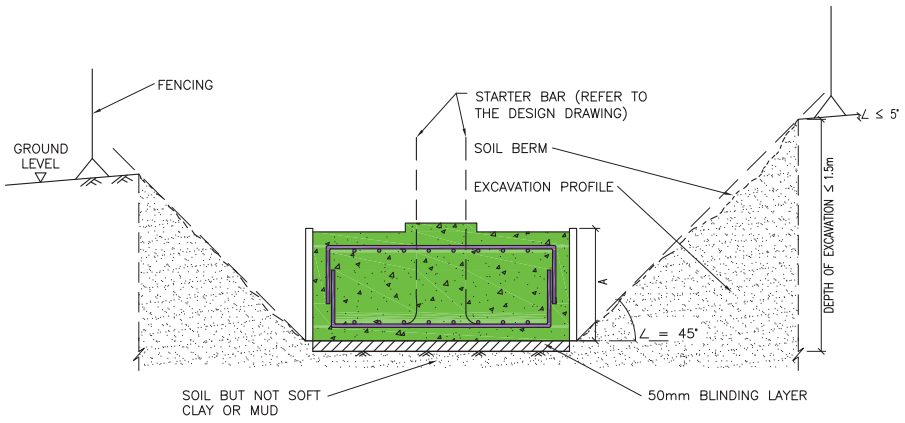
WORKING PROCEDURES :

1. Remove all glazing manually.
2. Remove all openable window frames manually by mechanical tool where appropriate.
3. Remove the main frame/ mullion/ transome using mechanical hand held tool.
4. All members shall be cut into small pieces for construction waste disposal.
5. Provide temporary protection to the wall opening for subsequent works where necessary
6. Dismantle bamboo scaffold and clean the site.

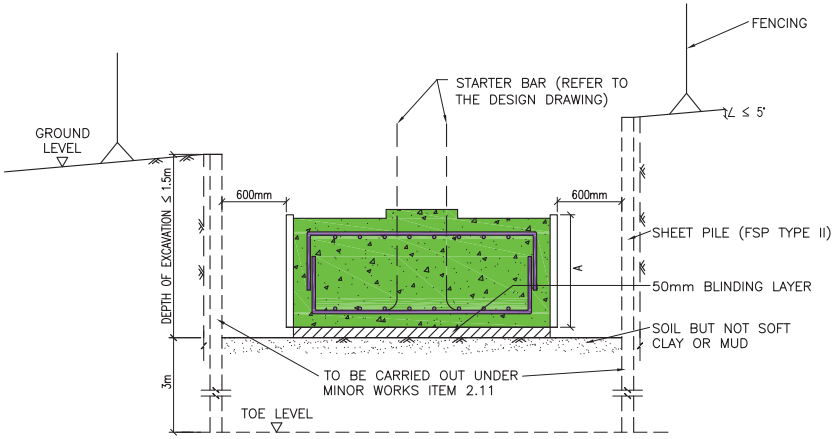
Remarks:

1. This case excludes minor works item 3.7.
2. For window erection to the opening, please refer to minor works item 2.8.
3. For non–load bearing block wall erection to the opening, please refer to minor works item 2.14 or 3.11 where appropriate.

MINOR WORKS ITEM 2.9	**REMOVAL OF WINDOW OR WINDOW WALL**



SECTION OF SPREAD FOOTING (OPEN CUT METHOD)



SECTION OF SPREAD FOOTING (SHEET PILE)

GENERAL NOTES :

1. The works carried out shall comply with the Buildings Ordinance and the provisions of other enactment. (Reference can be made to the examples listed in Sections 3 and 10 of the Guidelines.)
2. All works shall comply with the following CoP/ standards:
   - Building (Construction) Regulations
   - Code of Practice for the Structural Use of Concrete 2004
   - Code of Practice for the Structural Use of Steel 2005
   - Code of Practice for Foundations
   - Geoguide 1 : Guide to Retaining Wall Design, 2nd Edition
3. All structural steel to be grade S275.
4. All concrete works shall comply with CS1.
5. Existing concrete grade is assumed to be Grade 30 with 75mm concrete cover.
6. Steel reinforcement shall comply with CS2:1995 and shall be bent in accordance with BS 4466.
7. Minimum anchorage and lap length are 600mm unless otherwise specified.
8. Minimum allowable ground pressure to be 50 kN/m².

Design Dimensions :

A = 0.6m, B = 1.4m, C = 0.2m, maximum allowable vertical load = 72kN

Design Loads :

1. Surcharge = 5 kN/m²

Design Soil Parameter :

c = 0 kPa, ϕ = 30°, K_a = 0.35, K_p = 3.00

PREPARATION WORKS :

1. Obtain and investigate all underground utilities drawings/ information prior to the commencement of works.
2. Carry out condition survey of the parent structure/ existing condition prior commencement of works.
3. Obtain the original design of the approved structure for reference if any required reinstatement works.

SAFETY AND PRECAUTIONARY MEASURES :

1. Fence–off the working area from the public. Diversion arrangement shall be taken if necessary.
2. Shoring support is required if the depth of trench is more than 1.2m. Erection method shall be referred to "Guide to Trench Excavations" published by Utilities Technical Liaison Committee – Highways Department and Geotechnical Engineering Office – Civil Engineering Department (February 2003)
   A. The sizes of the structural members (e.g timber boards, struts and walings) and the spacings between struts depend on the actual excavation depth, ground conditions and other factors affecting the loading on the shoring system.
   B. Half timber board shoring may be adequate for moderately firm to firm soil provided that the groundwater level is below the bottom of the trench.

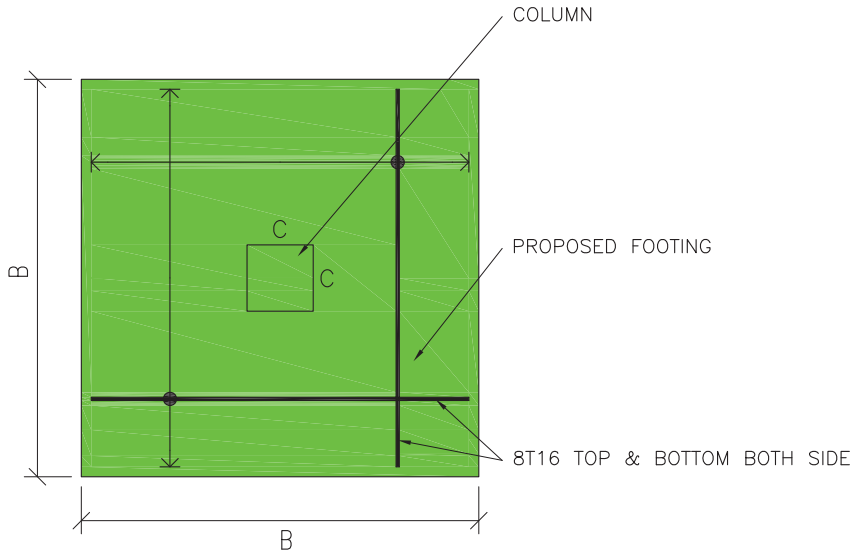
WORKING PROCEDURES :

1. For excavation shoring works, please refer to minor work item 2.11.
2. Laying blinding layer.
3. Erect formwork and fix reinforcing bar for the spread footing.
4. Concrete casting to the spread footing.
5. 24 hours after concrete casting, remove the formwork and carry out backfilling works.

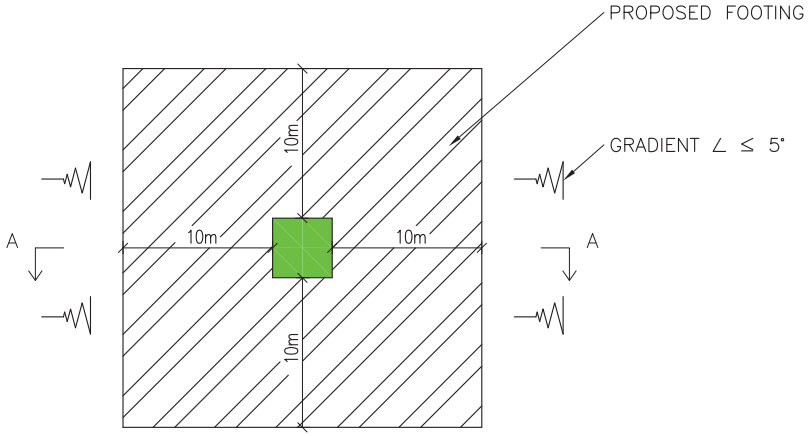
REMARKS :

1. There is no slope steeper than 15 degrees within the hatched area.
2. There is no retaining wall or terrace wall higher than 1.5m, or below a line drawn down from the base of the footing that is 45 degrees to the horizontal, within the hatched area.
3. The allowable pressure imposed by the footing on the ground is not more than 100 kPa or (if the footing is located below the ground water level) 50 kPa.
4. The footing is not found on soft clay or mud.
5. The works do not involve excavation within the area number 1 or 3 of the scheduled areas.
6. For shoring details, please refer to minor works item 2.11.

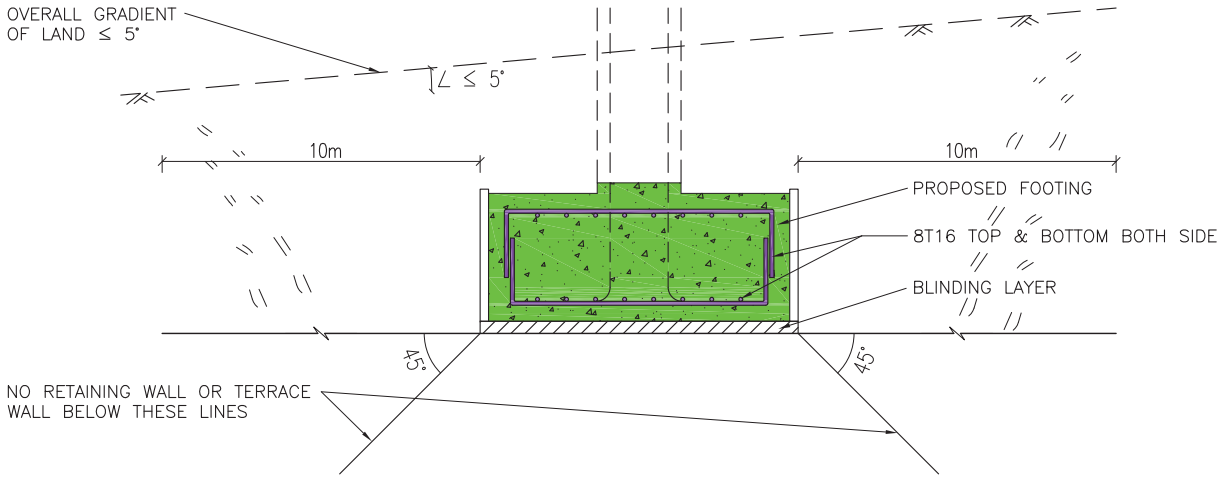
MINOR WORKS ITEM 2.10	CONSTRUCTION OR ALTERATION OF SPREAD FOOTING ASSOCIATED WITH THE CARRYING OUT OF OTHER MINOR WORKS OR DESIGNED EXEMPTED WORKS	SHEET 1 OF 2



REINFORCEMENT DIAGRAM FOR FOOTING



GENERAL GRADIENT OF THE AREA BOUNDED BY LINES 10m AWAY FROM THE FOOTING



SECTION A–A

MINOR WORKS ITEM 2.10	CONSTRUCTION OR ALTERATION OF SPREAD FOOTING ASSOCIATED WITH THE CARRYING OUT OF OTHER MINOR WORKS OR DESIGNED EXEMPTED WORKS	SHEET 2 OF 2