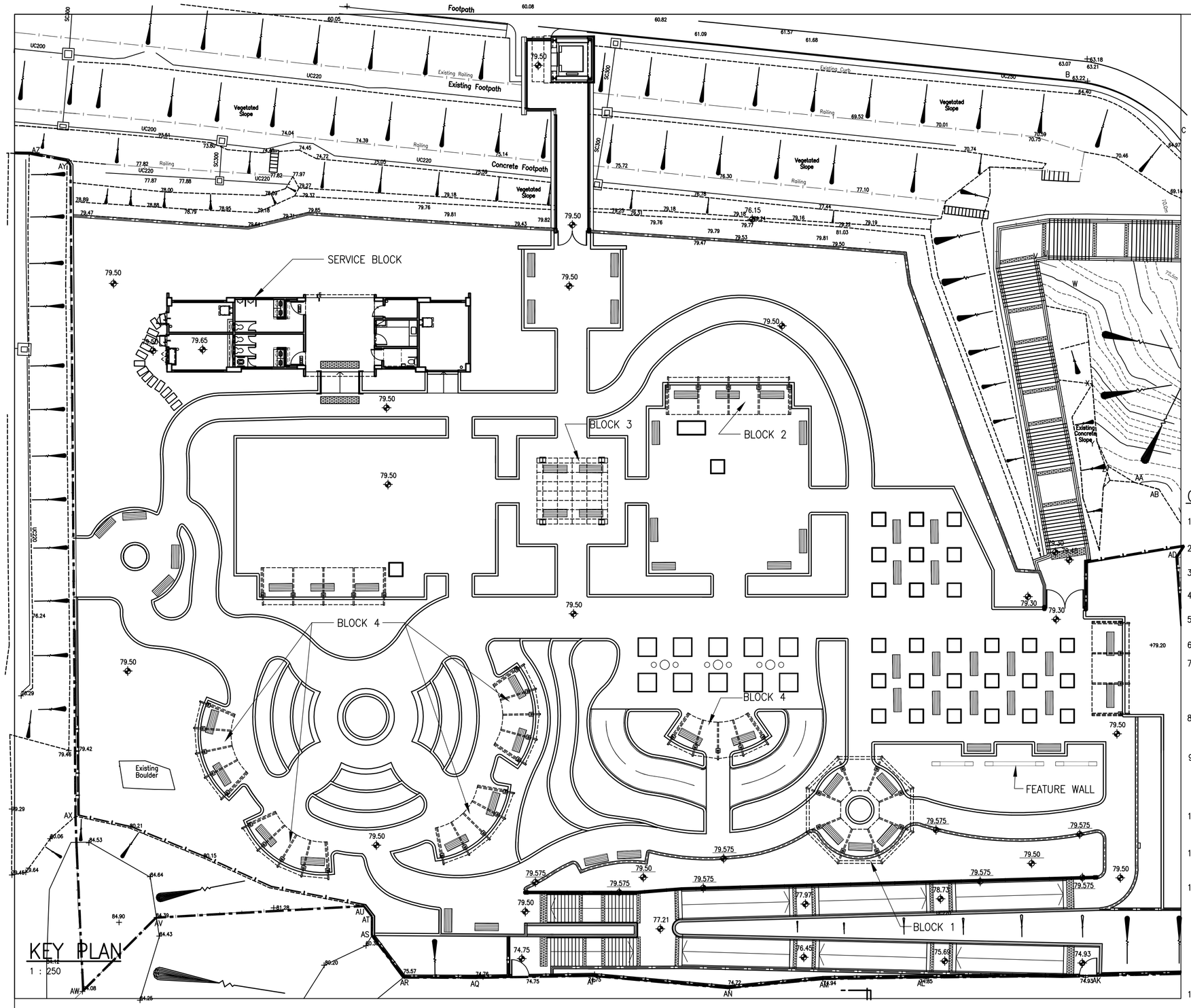
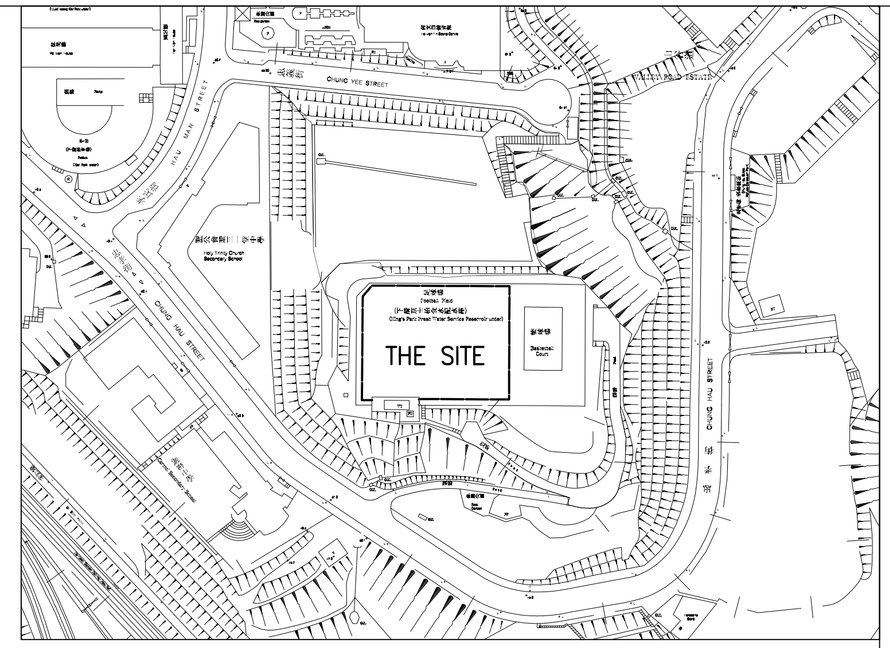


KEY PLAN
1 : 250



BLOCK PLAN
1 : 2000

GENERAL NOTES FOR REINFORCED CONCRETE WORKS

1. ALL WORKS SHALL COMPLY WITH THE GENERAL SPECIFICATION FOR BUILDING 2007. ALL R.C. WORKS SHALL BE TO SECTION 6 OF THE SPECIFICATION.
2. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECT'S/PSW'S/BSE'S DRAWINGS. INFORM THE SO OF ANY DISCREPANCIES WHICH MAY BE FOUND AMONGST THESE DRAWINGS.
3. ALL LEVELS SHOWN ARE IN METRES AND OTHER DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
4. DESIGN BEARING PRESSURE OF FOUNDATION SHALL BE 200kPa. ALL LEVELS AND SIZES OF FOUNDATION SHOWN ARE TENTATIVE. THEY MAY BE ADJUSTED TO SUIT ACTUAL SITE CONDITIONS.
5. SUBSOIL UNDERNEATH ALL FOUNDATION SHALL BE INSPECTED BY THE PROJECT STRUCTURAL ENGINEER BEFORE CASTING OF BLINDING LAYER.
6. NO REINFORCEMENT SHALL BE CUT OR BENT FOR FOUNDATION WORKS BEFORE CASTING OF BLINDING LAYERS.
7. THE FOLLOWING BS/CONSTRUCTION STANDARD IN INDEX 3 OF THE GS SHALL BE REVISED AS FOLLOWS:

BS812 : PART2:1975	TO BE REPLACED BY	BS812 : PART2:1995
BS3892 : PART1:1982	TO BE REPLACED BY	BS3892 : PART1:1997
BS4483 : 1985	TO BE REPLACED BY	BS4483 : 1998
CS1 : 1990	TO BE REPLACED BY	CS1 : 2010

8. "BS 4482", "BS 6699", "BS EN 196–21", "BS EN 13263–1" AND "BS EN 15167–1" REFERRED TO IN THE GS SHALL READ "BS 4482:1985", "BS 6699:1992", "BS EN 196–21:1992", "BS EN 13263–1:2005+A1:2009" AND "BS EN 15167–1:2006" RESPECTIVELY.
9. ALLOW FOR THE FOLLOWING PROVISIONAL QUANTITIES OF COMPACTION TESTS IN ACCORDANCE WITH G.S. CLAUSE 3.21:
   a) GEO GEOSPEC 3 (OPTIMUM MOISTURE CONTENT AND MAXIMUM DRY DENSITY) 10 NOS.
   b) GEO GEOSPEC 3 (RELATIVE COMPACTION) 20 NOS.
10. CONCRETE MIXES FOR STRUCTURAL ELEMENTS SHALL BE AS FOLLOWS

GRADES	ELEMENTS
35D/20	ALL STRUCTURAL ELEMENTS

11. NOTWITHSTANDING CLAUSE 6.12 OF THE GS, THE MINIMUM PERIODS FOR RETAINING FORMWORK AND FALSEWORK IN POSITION BEFORE STRIKING FOR CONCRETE WITH PFA SPECIFIED IN TABLE 6.1 SHALL APPLY TO CONCRETE WITH GGBS OR PFAC.
12. NOTWITHSTANDING GS CLAUSE 6.25, NOMINAL CONCRETE COVER TO REINFORCEMENT, INCLUDING LINKS AND STIRRUPS, SHALL BE FOLLOWS:–

SLABS	– 25 FOR CONTINUOUS / 35 FOR SIMPLY SUPPORTED
BEAMS	– 40 FOR CONTINUOUS / 50 FOR SIMPLY SUPPORTED
COLUMNS	– 35
WORKS BELOW GROUND	– 50
WALLS	– 25
FOOTING	– 75

OR COVER TO MAIN BARS NOT LESS THAN THE DIAMETER OF MAIN BARS, WHICHEVER IS THE GREATER.

13. STEEL BARS SHALL BE HOT ROLLED PLAIN ROUND BARS (DENOTED BY R) OR DEFORMED HIGH YIELD BARS (DENOTED BY T) TO CONSTRUCTION STANDARD 2:1995. ALL REINFORCEMENT SHALL BE CUT OR BENT TO COMPLY WITH BS 8666:2005.
14. IN ADDITION TO TENSILE TESTS, BEND TESTS, AND REBEND TESTS, SPECIFIED IN GS CLAUSE 6.17(V), THE MASS PER UNIT LENGTH FOR THE BATCH OF STEEL REINFORCEMENT SHALL ALSO BE DETERMINED TOGETHER WITH THE TENSILE TEST SPECIMENS. THE CROSS–SECTIONAL AREA AND MASS SHALL BE DETERMINED AND COMPLY WITH CLAUSE 1.4 OF CS2. FOR EACH TEST SPECIMEN FAILING TO COMPLY WITH CLAUSE 1.4 OF CS2, TWO FURTHER TEST SPECIMENS MAY BE TAKEN FROM DIFFERENT BARS OF THE SAME BATCH OF REINFORCEMENT FOR RE–TEST ON MASS. IF BOTH ADDITIONAL TEST SPECIMENS PASS THE RETEST, THE BATCH OF REINFORCEMENT FROM WHICH THEY WERE TAKEN SHALL BE DEEMED TO COMPLY WITH THE GS. IF EITHER ONE OF THEM FAILS, THE BATCH OF REINFORCEMENT SHALL BE DEEMED NOT TO COMPLY WITH THE GS.
15. ALLOW FOR SUFFICIENT STEEL CHAIRS TO SUPPORT TOP REINFORCEMENT IN SLABS, STAIR FLIGHTS AND RAFTS EXCEEDING 150 THICK AND U–BARS TO KEEP VERTICAL WALL REINFORCEMENT IN ITS CORRECT ALIGNMENT.
16. HOLES AND POCKETS IN STRUCTURAL ELEMENTS SHALL NOT BE ALLOWED UNLESS AGREED BY THE PSE.
17. DESIGN, CONSTRUCT AND DISMANTLE FALSE WORK TO THE SLAB, BEAM, COLUMN AND WALL IN ACCORDANCE WITH BS 5975:1982.
18. THE DESIGN OF FORMWORK OR FALSEWORK INCLUDING SUPPORTS AND FOUNDATIONS SHALL BE SUBMITTED TO THE SO FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY SUCH CONSTRUCTION ACTIVITY.
19. FOR GROUND FLOOR SLAB AND PAVING SLAB CONSTRUCTION, SEE STANDARD STRUCTURAL DETAIL DRAWING No. SD/019 TO SD/026.
20. FOR DETAILS OF REINFORCEMENT IN PARTITION WALL/PLANTER WALL, SEE SEB STANDARD DRAWINGS.
21. NON STRUCTURAL CONCRETE WALLS ARE NOT SHOWN ON STRUCTURAL FRAMING PLANS. REFER TO ARCHITECTURAL DRAWING FOR LOCATION.
22. NOTWITHSTANDING GS CLAUSE 6.52, THE SPECIFIED MINIMUM PERIODS OF CURING TO FINISHED CONCRETE SHALL BE INCREASED BY 25% FOR CONCRETE CONTAINING GGBS OR PFAC.
23. NOTWITHSTANDING GS CLAUSE 3.01(iv). GRADE 200 RECYCLED BACKFILL SHALL BE USED FOR HARDCORE LAYERS FOR THIS PROJECT. THE THICKNESS OF HARDCORE LAYER SHALL NOT BE LESS THAN 200mm. THE PARTICULAR SPECIFICATION FOR USE OF GRADE 200 RECYCLED ROCKFILL FOR HARDCORE LAYER SHALL APPLY.
24. 50mm THICK BLINDING LAYER OF GRADE 10/20 CONCRETE SHALL BE PROVIDED ON THE UNDERSIDE OF ALL FOUNDATIONS AND GROUND BEAMS IN CONTACT WITH EARTH.
25. IN CASE STRUCTURAL STEELWORK IS TO BE FABRICATED OUTSIDE HONG KONG, THE CONTRACTOR SHALL SUBMIT QUALITY ASSURANCE PROPOSAL, FOR ACCEPTANCE BY THE SO PRIOR TO COMMENCEMENT OF WORKS, WITH METHOD STATEMENT AND PROCEDURE TO BE TAKEN TO ENSURE THE MATERIALS AND WORKMANSHIP OF THE PREFABRICATED WORKS IN FULL COMPLIANCE WITH THE SPECIFICATIONS AND CONTRACT DRAWINGS.? DESTRUCTIVE AND NON–DESTRUCTIVE TESTS WOULD BE CARRIED OUT ON THE FABRICATED STEELWORK DELIVERED TO SITE, AS DIRECTED BY THE SO, TO VERIFY ITS MATERIALS AND WORKMANSHIP IN COMPLIANCE TO THE SPECIFICATIONS AND CONSTRUCTION DRAWINGS IN ALL RESPECT, AND THE CONTRACTOR HAVE TO BEAR ALL COSTS AND TIME THUS INCURRED
26. ALLOW 12 NUMBERS OF 100 DIAMETER CORE SAMPLES TO BE TAKEN FROM THE FINISHED CONCRETE WORK FOR THE 28 DAYS STRENGTH TEST IN ACCORDANCE WITH CS1.

GENERAL NOTES FOR STRUCTURAL STEELWORK

1. ALL WORKS SHALL COMPLY WITH GENERAL SPECIFICATION FOR BUILDING 2007. ALL STRUCTURAL STEELWORK SHALL BE TO SECTION 15 OF THE SPECIFICATION.
2. NOTWITHSTANDING GS CLAUSE 15.01, THE USE OF STRUCTURAL STEELWORK SHALL BE TO THE CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2005 INCLUDING ITS LATEST AMENDMENTS AND REVISIONS ISSUED BY THE BUILDINGS DEPARTMENT EXCEPT OTHERWISE STATED.
3. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECT'S DRAWINGS. INFORM THE SO OF ANY DISCREPANCIES WHICH MAY BE FOUND AMONGST THESE DRAWINGS.
4. ALL LEVEL SHOWN ARE IN METERS AND OTHER DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
5. ALL STRUCTURAL STEEL SHALL BE PRODUCED FROM A MANUFACTURER WITH AN ACCEPTABLE QUALITY ASSURANCE SYSTEM. EXCEPT FOR HOLLOW SECTIONS, ALL STRUCTURAL STEEL SHALL BE HOT–ROLLED STRUCTURAL STEEL COMPLYING WITH BS EN 10025, AND SHALL BE GRADE S355JR UNLESS SPECIFIED OTHERWISE. HOLLOW SECTIONS SHALL BE HOT–FINISHED HOLLOW SECTIONS COMPLYING WITH BS EN 10210–1 AND SHALL BE GRADE S355J0H UNLESS SPECIFIED OTHERWISE.

   RATE OF SAMPLING AND PREPARATION OF TEST SPECIMEN FOR STRUCTURAL STEEL SECTIONS OR PLATES SHALL FOLLOW GS CLAUSE 15.17. UNLESS OTHERWISE SPECIFIED, THE TEST SPECIMENS SHALL BE SUBJECTED TO TENSILE TEST IN ACCORDANCE WITH BS EN 10002–1.

   SHOULD THE TEST RESULT OF THE TEST SPECIMEN FROM A BATCH OF STEEL OF 40 TONNES OR PART THEREOF EACH SECTION OR PLATE OF SAME THICKNESS FROM THE SAME CAST FAIL TO COMPLY WITH THE RELEVANT BS EN, TWO FURTHER TEST SPECIMENS MAY BE TAKEN FROM THE SAME BATCH OF STEEL FOR RE–TEST. PROVIDED THE RESULTS OF THESE FURTHER TESTS BOTH COMPLY WITH THE RELEVANT BS EN, THE BATCH OF STEEL REPRESENTED BY THE SPECIMENS SHALL BE DEEMED TO COMPLY WITH THE GS. IF THE RESULT OF EITHER OF THESE ADDITIONAL TEST SPECIMENS DOES NOT COMPLY WITH THE RELEVANT BS EN, THE BATCH OF STEEL REPRESENTED BY THE SPECIMENS SHALL BE DEEMED NOT TO COMPLY WITH THE GS.

6. SHOULD THE CONTRACTOR BE UNABLE TO OBTAIN THE SPECIFIED STEEL SECTIONS, THEY SHALL SUBMIT ALTERNATIVE SECTIONS OF AT LEAST EQUAL STRENGTH AND PROPERTIES TO THE SO FOR APPROVAL. WHERE JOINT DETAILS HAVE TO BE MODIFIED AS A RESULT, JOINT DETAILS AND SHOP DRAWINGS ALSO HAVE TO BE SUBMITTED TO THE SO FOR APPROVAL BEFORE WORK IS PUT IN HAND. ALL ADDITIONAL COSTS ARISING THERE FROM SHALL BE BORNE BY THE CONTRACTOR.
7. ALL BOLTS SHALL BE GRADE 8.8 TO BS 4190, AND NUTS SHALL BE GRADE 8 TO BS 4190. UNLESS SPECIFIED OTHERWISE, ALL BOLTS SHALL BE 16 mm DIAMETER.

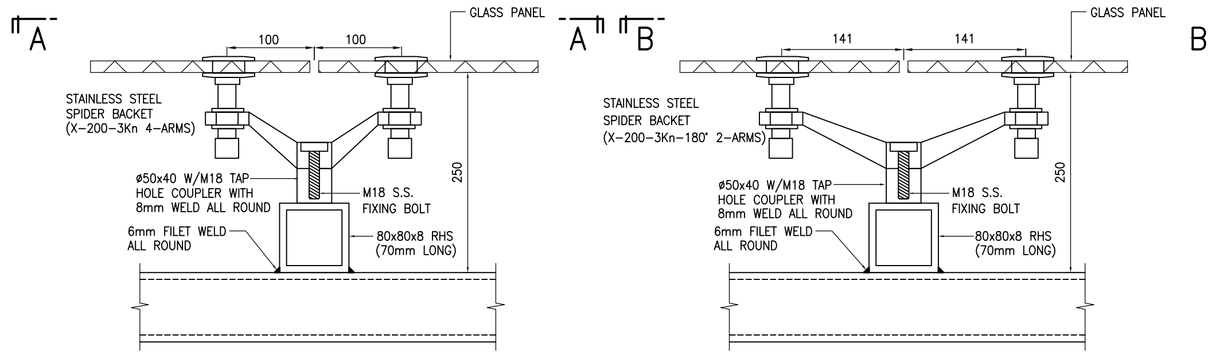
   RATE OF SAMPLING OF TEST SPECIMENS FOR BOLTS AND ASSOCIATED NUTS SHALL FOLLOW GS CLAUSE 15.20. UNLESS OTHERWISE SPECIFIED, TEST SPECIMENS FOR BOLTS SHALL BE SUBJECTED TO TESTS TO BS EN ISO 898–1 TO DETERMINE THEIR TENSILE STRENGTH AND FOR NUTS SHALL BE SUBJECTED TO TESTS IN ANNEX A OF BS 4190.

   SHOULD THE TEST RESULT OF A TEST SPECIMEN FROM A BATCH OF BOLTS OR NUTS FAIL TO COMPLY WITH THE BS 4190, TWO FURTHER TEST SPECIMENS MAY BE TAKEN RESPECTIVELY FROM THE SAME BATCH OF BOLTS OR NUTS FOR RE–TEST. PROVIDED THE RESULTS OF THESE FURTHER TESTS BOTH COMPLY WITH THE RELEVANT BS, THE BATCH OF BOLTS OR NUTS REPRESENTED THE SPECIMENS SHALL BE DEEMED TO COMPLY WITH THE GS. IF THE RESULT OF EITHER OF THESE ADDITIONAL TEST BY SPECIMENS DOES NOT COMPLY WITH THE BS 4190, THE BATCH OF BOLTS OR NUTS REPRESENTED BY THE SPECIMENS SHALL BE DEEMED NOT TO COMPLY WITH THE GS.

8. GROUT AROUND FOUNDATION BOLTS AND UNDER COLUMN BASE PLATES SHALL BE AN APPROVED PROPRIETARY NON–SHRINK POLYMER MODIFIED CEMENTITIOUS OR RESIN BASED GROUT.
9. ALL WELDING SHALL BE 6mm FILLET WELDS IN ACCORDANCE WITH BS EN 1011–1 TOGETHER WITH OTHER CLAUSES CONTAINED IN THE GS, UNLESS OTHERWISE STATED.
10. ALL STRUCTUARL STEELWORK INCLUDING BOLTS, WASHERS AND NUTS, WELDED AREA SHOULD BE HOT DIP GALVANIZED WITH MINIMUM THICKNESS OF 85 um TO BS EN ISO 1461.
    SMALL AREA OF GALVANIZED COATING DAMAGED BY WELDING, CUTTING OR ROUGH TREATMENT OR ERECTION SHALL BE MADE GOOD BY THE USE OF AT LEAST TWO COATS OF ZINC RICH PAINT TO BS4652 TO CLAUSE 15.63.
    PAINTING TO GALVANIZED STRUCTURAL STEEL SHALL BE AS TABLE 15.7 TYPE F OF THE GS. SUBMIT PAINT MANUFACTURER'S DATA SHEET FOR APPROVAL BEFORE USE.

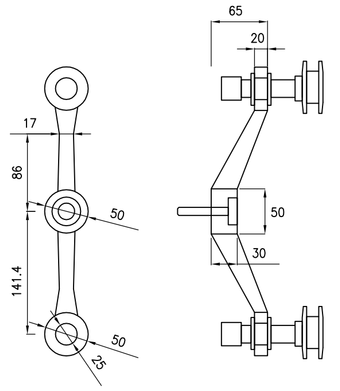
GENERAL NOTES FOR GLASS PANELS (NOT FOR SCU APPROVAL)

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE GLASS PANEL AND ITS SUPPORTING BRACKET. THE CALCULATION AND THE DRAWING SHALL BE SUBMITTED TO THE PSE FOR APPROVAL PRIOR TO THE COMMENCEMENT OF THE WORK.



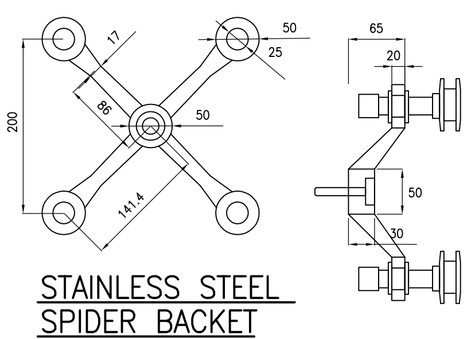
TYPICAL GLASS ROOF FIXING DETAILS (ELEVATION)

(SCALE 1 : 5)
(TO BE DESIGNED AND SUBMITTED BY THE CONTRACTOR TO PSE FOR APPROVAL)
(NOT FOR APPROVAL)



STAINLESS STEEL SPIDER BACKET (X–200–5kN–180° 2–ARMS)

(SCALE 1 : 5)
(TO BE DESIGNED AND SUBMITTED BY THE CONTRACTOR TO PSE FOR APPROVAL)
(NOT FOR APPROVAL)



STAINLESS STEEL SPIDER BACKET (X–200–5kN 4–ARMS)

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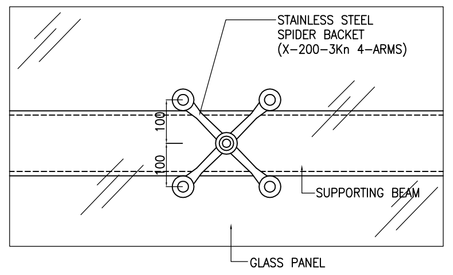

SECTION A – A (PLAN)

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(TO BE DESIGNED AND SUBMITTED BY THE CONTRACTOR TO PSE FOR APPROVAL)
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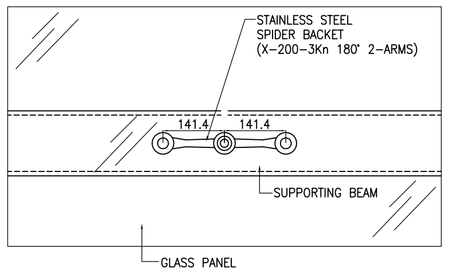

SECTION B – B (PLAN)

(SCALE 1 : 10)
(TO BE DESIGNED AND SUBMITTED BY THE CONTRACTOR TO PSE FOR APPROVAL)
(NOT FOR APPROVAL)

AMENDMENT

No.	Date	Description	Initial
	05/01/12	TENDER DRAWING	

Revision

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Drawn	BAN WONG	08/2008
Checked	QUEENCY KUO	08/2008

Approved
Chief structural engineer
Senior structural engineer
Project engineer
Signed Date

Contract No.
9AS022

File No.

Project No.
420 RO

Contract
LOCAL OPEN SPACE AT CHUNG YEE STREET, KOWLOON CITY DISTRICT

Drawing Title
GENERAL NOTES, KEY PLAN AND BLOCK PLAN

Drawing No.
SE/2263/NTLP001
file name.

Scale
AS SHOWN

ARCHITECTURAL SERVICES DEPARTMENT

Cad Ref: