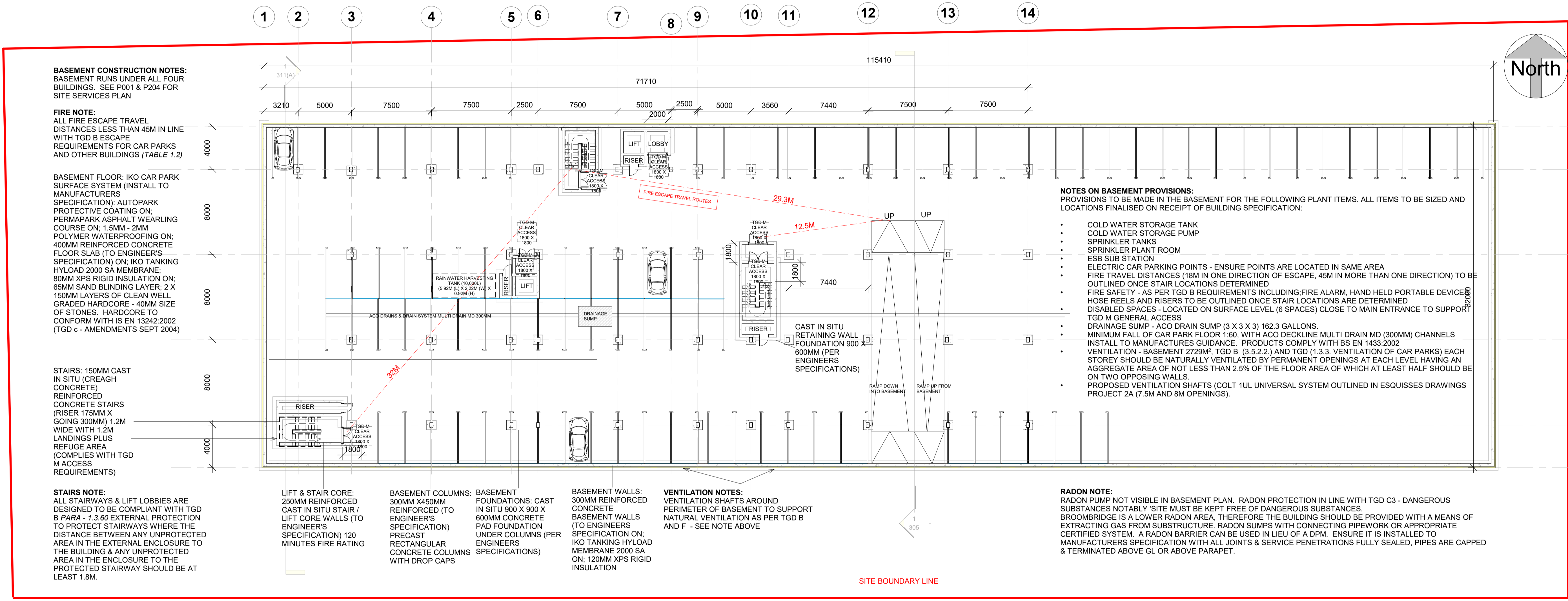





ARCH 2121 TDS Project 4 – Planning Application: Office Development, 288 Bannow Road, Broombridge, Cabra, Dublin 7

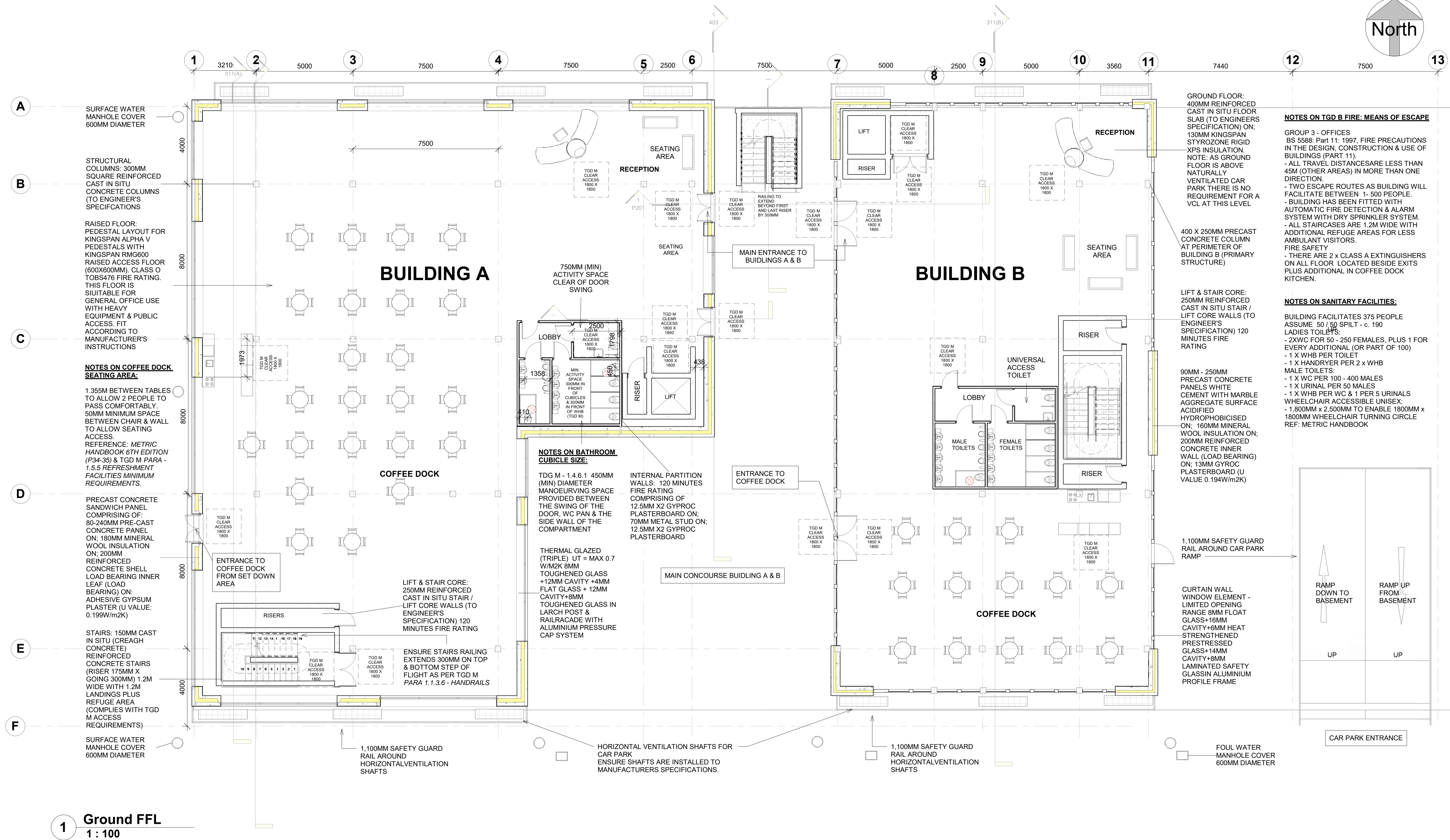
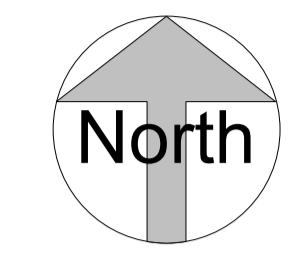
DT 175-02 ARCHITECTURAL TECHNOLOGY



1 Basement
1 : 200

Organisation Name TUDublin	Client Name DT175 02	Scale 1 : 200	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington		Emma Harrington DT175-02 2018_19
Project Name TDS Project - Concrete Building	Sheet Name Basement Plan	Checked by EJH	P101				





1 Ground FFL
1 : 100

NOTES ON TGD B FIRE: MEANS OF ESCAPE

GROUP 3 - OFFICES
BS 5588: Part 11: 1997. FIRE PRECAUTIONS IN THE DESIGN, CONSTRUCTION & USE OF BUILDINGS (PART 11).
- ALL TRAVEL DISTANCES ARE LESS THAN 45M (OTHER AREAS) IN MORE THAN ONE DIRECTION.
- TWO ESCAPE ROUTES AS BUILDING WILL FACILITATE BETWEEN 1 - 500 PEOPLE.
- BUILDING HAS BEEN FITTED WITH AUTOMATIC FIRE DETECTION & ALARM SYSTEM WITH DRY SPRINKLER SYSTEM.
- ALL STAIRCASES ARE 1.2M WIDE WITH ADDITIONAL REFUGE AREAS FOR LESS AMBULANT VISITORS.
FIRE SAFETY
- THERE ARE 2 x CLASS A EXTINGUISHERS ON ALL FLOOR LOCATED BESIDE EXITS PLUS ADDITIONAL IN COFFEE DOCK KITCHEN.

NOTES ON SANITARY FACILITIES:

BUILDING FACILITATES 375 PEOPLE ASSUME 50/150 SPLIT - c. 190
LADIES TOILETS:
- 2XWC FOR 50 - 250 FEMALES, PLUS 1 FOR EVERY ADDITIONAL (OR PART OF 100)
- 1 X WHB PER TOILET
- 1 X HANDRYER PER 2 x WHB MALE TOILETS:
- 1 X WC PER 100 - 400 MALES
- 1 X URINAL PER 50 MALES
- 1 X WHB PER WC & 1 PER 5 URINALS
WHEELCHAIR ACCESSIBLE UNISEX:
- 1.800MM x 2.500MM TO ENABLE 1800MM x 1800MM WHEELCHAIR TURNING CIRCLE
REF: METRIC HANDBOOK

NOTES ON BATHROOM CUBICLE SIZE:

TGD M - 1.4.6.1 450MM (MIN) DIAMETER MANOEUVRING SPACE PROVIDED BETWEEN THE SWING OF THE DOOR, WC PAN & THE SIDE WALL OF THE COMPARTMENT
INTERNAL PARTITION WALLS: 120 MINUTES FIRE RATING COMPRISING OF 12.5MM X2 GYPROC PLASTERBOARD ON: 70MM METAL STUD ON: 12.5MM X2 GYPROC PLASTERBOARD
THERMAL GLAZED (TRIPLE) UT = MAX 0.7 W/M2K 8MM TOUGHENED GLASS +12MM CAVITY +4MM FLAT GLASS + 12MM CAVITY+8MM TOUGHENED GLASS IN LARCH POST & RAILRACADE WITH ALUMINIUM PRESSURE CAP SYSTEM

ENSURE STAIRS RAILING EXTENDS 300MM ON TOP & BOTTOM STEP OF FLIGHT AS PER TGD M PARA 1.1.3.6 - HANDRAILS

GROUND FLOOR: 400MM REINFORCED CAST IN SITU FLOOR SLAB (TO ENGINEERS SPECIFICATION) ON: 130MM KINGSPAN STYROZONE RIGID XPS INSULATION. NOTE: AS GROUND FLOOR IS ABOVE NATURALLY VENTILATED CAR PARK THERE IS NO REQUIREMENT FOR A VCL AT THIS LEVEL

400 X 250MM PRECAST CONCRETE COLUMN AT PERIMETER OF BUILDING B (PRIMARY STRUCTURE)

LIFT & STAIR CORE: 250MM REINFORCED CAST IN SITU STAIR / LIFT CORE WALLS (TO ENGINEER'S SPECIFICATION) 120 MINUTES FIRE RATING

90MM - 250MM PRECAST CONCRETE PANELS WHITE CEMENT WITH MARBLE AGGREGATE SURFACE ACIDIFIED HYDROPHOBICISED ON: 160MM MINERAL WOOL INSULATION ON: 200MM REINFORCED CONCRETE INNER WALL (LOAD BEARING) ON: 13MM GYPROC PLASTERBOARD (U VALUE 0.194W/m2K)

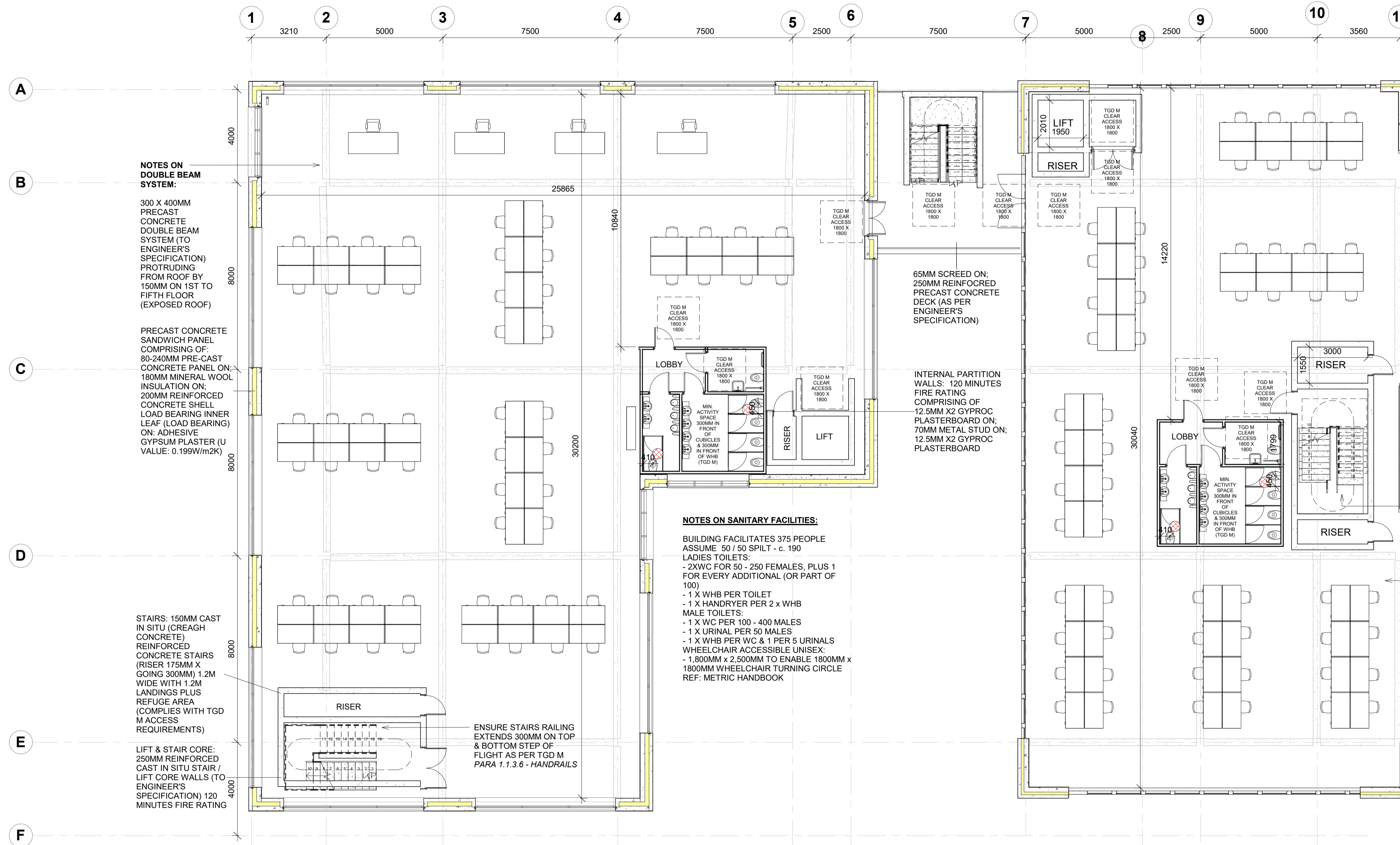
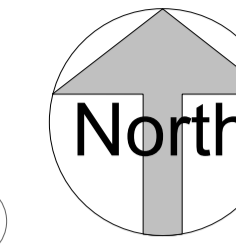
1,100MM SAFETY GUARD RAIL AROUND CAR PARK RAMP

CURTAIN WALL WINDOW ELEMENT - LIMITED OPENING RANGE 8MM FLOAT GLASS+16MM CAVITY+6MM HEAT STRENGTHENED PRESTRESSED GLASS+14MM CAVITY+8MM LAMINATED SAFETY GLASS IN ALUMINIUM PROFILE FRAME

FOUL WATER MANHOLE COVER 600MM DIAMETER

Organisation Name TUDublin	Client Name DT175 02	Scale 1 : 100	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington
Project Name TDS Project - Concrete Building	Sheet Name Ground Floor Plans	Checked by EJH	P102		





NOTES ON DOUBLE BEAM SYSTEM:
 300 X 400MM PRECAST CONCRETE DOUBLE BEAM SYSTEM (TO ENGINEER'S SPECIFICATION) PROTRUDING FROM ROOF BY 150MM ON 1ST TO FIFTH FLOOR (EXPOSED ROOF)

PRECAST CONCRETE SANDWICH PANEL COMPRISING OF: 80-240MM PRE-CAST CONCRETE PANEL ON: 180MM MINERAL WOOL INSULATION ON: 200MM REINFORCED CONCRETE SHELL LOAD BEARING INNER LEAF (LOAD BEARING) ON: ADHESIVE GYPSUM PLASTER (U VALUE: 0.199W/m2K)

STAIRS: 150MM CAST IN SITU (CREAGH CONCRETE) REINFORCED CONCRETE STAIRS (RISER 175MM X GOING 300MM) 1.2M WIDE WITH 1.2M LANDINGS PLUS REFUGE AREA (COMPLIES WITH TGD M ACCESS REQUIREMENTS)

LIFT & STAIR CORE: 250MM REINFORCED CAST IN SITU STAIR / LIFT CORE WALLS (TO ENGINEER'S SPECIFICATION) 120 MINUTES FIRE RATING

NOTES ON SANITARY FACILITIES:
 BUILDING FACILITATES 375 PEOPLE ASSUME 50 / 50 SPILT - c. 190 LADIES TOILETS:
 - 2XWC FOR 50 - 250 FEMALES, PLUS 1 FOR EVERY ADDITIONAL (OR PART OF 100)
 - 1 X WHB PER TOILET
 - 1 X HANDRYER PER 2 x WHB
 MALE TOILETS:
 - 1 X WC PER 100 - 400 MALES
 - 1 X URINAL PER 50 MALES
 - 1 X WHB PER WC & 1 PER 5 URINALS
 WHEELCHAIR ACCESSIBLE UNISEX:
 - 1,800MM x 2,500MM TO ENABLE 1800MM x 1800MM WHEELCHAIR TURNING CIRCLE
 REF: METRIC HANDBOOK

INTERNAL PARTITION WALLS: 120 MINUTES FIRE RATING COMPRISING OF 12.5MM X2 GYPROC PLASTERBOARD ON; 70MM METAL STUD ON; 12.5MM X2 GYPROC PLASTERBOARD

65MM SCREED ON; 250MM REINFORCED PRECAST CONCRETE DECK (AS PER ENGINEER'S SPECIFICATION)



CURTAIN WALL WINDOW ELEMENT - LIMITED OPENING RANGE 8MM FLOAT GLASS+16MM CAVITY+6MM HEAT STRENGTHENED PRESTRESSED GLASS+14MM CAVITY+8MM LAMINATED SAFETY GLASS IN ALUMINIUM PROFILE FRAME

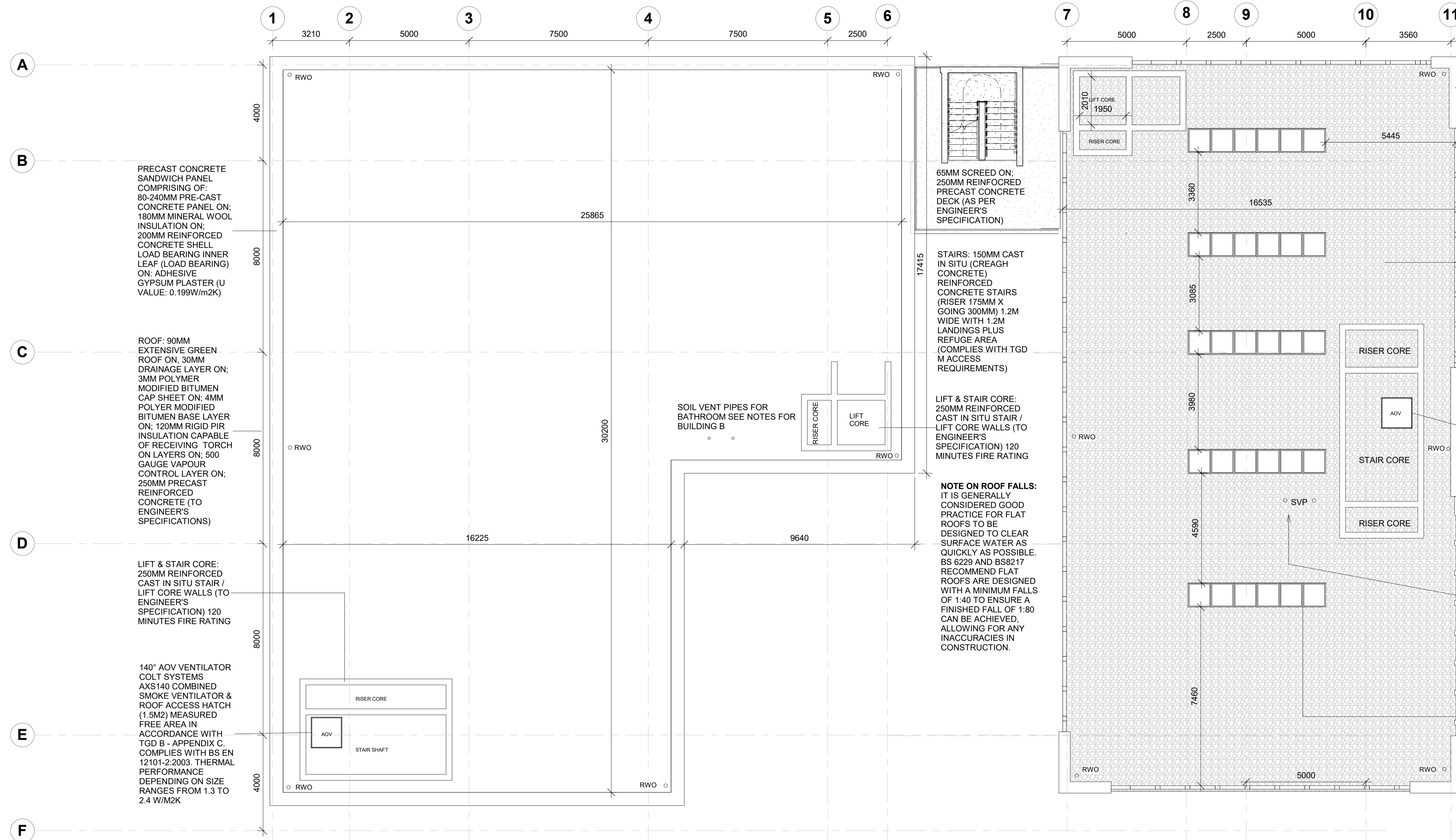
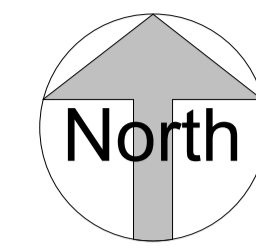
90MM - 250MM PRECAST CONCRETE PANELS WHITE CEMENT WITH MARBLE AGGREGATE SURFACE ACIDIFIED HYDROPHOBICISED ON; 160MM MINERAL WOOL INSULATION ON; 200MM REINFORCED CONCRETE INNER WALL (LOAD BEARING) ON; 13MM GYROC PLASTERBOARD (U VALUE 0.194W/m2K)

ENSURE RAILING EXTENDS 300MM ON TOP & BOTTOM STEP OF FLIGHT

RAISED FLOOR: PEDESTAL LAYOUT FOR KINGSPAN ALPHA V PEDESTALS WITH KINGSPAN RMG600 RAISED ACCESS FLOOR (600X600MM), CLASS O TOBS476 FIRE RATING. THIS FLOOR IS SUITABLE FOR GENERAL OFFICE USE WITH HEAVY EQUIPMENT & PUBLIC ACCESS. FIT ACCORDING TO MANUFACTURER'S INSTRUCTIONS

1 First FFL
1 : 100

Organisation Name TUDublin	Client Name DT175 02	Scale 1 : 100	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington		Emma Harrington DT175-02 2018_19	
Project Name TDS Project - Concrete Building	Sheet Name Typical Upper Floor Plan (1st Floor)	Checked by EJH	P103					



1 Building A - Roof Plan
1 : 100

2 Building B - Roof Plan
1 : 100

90MM - 250MM PRECAST CONCRETE PANELS WHITE CEMENT WITH MARBLE AGGREGATE SURFACE ACIDIFIED HYDROPHOBICISED ON; 160MM MINERAL WOOL INSULATION ON; 200MM REINFORCED CONCRETE INNER WALL (LOAD BEARING) ON; 13MM GYROC PLASTERBOARD (U VALUE 0.194W/m2K)

ROOF: 50MM GRAVEL LAYER ON; 30MM DRAINAGE LAYER ON; 3MM POLYMER MODIFIED BITUMEN CAP SHEET ON; 4MM POLYMER MODIFIED BITUMEN BASE LAYER ON; 300MM RIGID FOAM INSULATION TO FALLS BITUMINOUS SHEETING, ON VAPOUR RETARDER ON; 340MM PRECAST REINFORCED CONCRETE OF THAT 50MM PREFABRICATED SLIM DECK FLOOR LEVELLING COAT

140° AOV VENTILATOR COLT SYSTEMS AXS140 COMBINED SMOKE VENTILATOR & ROOF ACCESS HATCH (1.5M2) MEASURED FREE AREA IN ACCORDANCE WITH TGD B - APPENDIX C. COMPLIES WITH BS EN 12101-2:2003. THERMAL PERFORMANCE DEPENDING ON SIZE RANGES FROM 1.3 TO 2.4 W/M2K

SVP IN ROOF (100MM DIAMETER) BLACK UPVC PIPES. ENSURE PIPES FINISH AT LEAST 900MM ABOVE ANY OPENING INTO THE BUILDING WITHIN 3M AND ENSURE THE PIPES ARE FITTED WITH A CAGE OR OTHER PERFORATED COVER WHICH DOES NOT RESTRICT THE FLOW OF AIR (TGD H - DRAINAGE & WASTE WATER DISPOSAL - PARA 1.2.3.5)

ACTIVE SOLAR PV PANEL (960 X 1210MM) ANGLE OF INCLINATION 35 DEGREES

NOTES ON PV PANELS: SEE TDS PROJECT 2/3 PART D FOR FULL BREAKDOWN ON NZEB REQUIREMENTS FOR BUILDINGS AND PV PANEL CALCULATIONS

PRECAST CONCRETE SANDWICH PANEL COMPRISING OF: 80-240MM PRE-CAST CONCRETE PANEL ON; 180MM MINERAL WOOL INSULATION ON; 200MM REINFORCED CONCRETE SHELL LOAD BEARING INNER LEAF (LOAD BEARING) ON; ADHESIVE GYPSUM PLASTER (U VALUE: 0.199W/m2K)

ROOF: 90MM EXTENSIVE GREEN ROOF ON; 30MM DRAINAGE LAYER ON; 3MM POLYMER MODIFIED BITUMEN CAP SHEET ON; 4MM POLYMER MODIFIED BITUMEN BASE LAYER ON; 120MM RIGID PIR INSULATION CAPABLE OF RECEIVING TORCH ON LAYERS ON; 500 GAUGE VAPOUR CONTROL LAYER ON; 250MM PRECAST REINFORCED CONCRETE (TO ENGINEER'S SPECIFICATIONS)

LIFT & STAIR CORE: 250MM REINFORCED CAST IN SITU STAIR / LIFT CORE WALLS (TO ENGINEER'S SPECIFICATION) 120 MINUTES FIRE RATING

140° AOV VENTILATOR COLT SYSTEMS AXS140 COMBINED SMOKE VENTILATOR & ROOF ACCESS HATCH (1.5M2) MEASURED FREE AREA IN ACCORDANCE WITH TGD B - APPENDIX C. COMPLIES WITH BS EN 12101-2:2003. THERMAL PERFORMANCE DEPENDING ON SIZE RANGES FROM 1.3 TO 2.4 W/M2K

140° AOV VENTILATOR COLT SYSTEMS AXS140 COMBINED SMOKE VENTILATOR & ROOF ACCESS HATCH (1.5M2) MEASURED FREE AREA IN ACCORDANCE WITH TGD B - APPENDIX C. COMPLIES WITH BS EN 12101-2:2003. THERMAL PERFORMANCE DEPENDING ON SIZE RANGES FROM 1.3 TO 2.4 W/M2K


STAIRS: 150MM CAST IN SITU (CREAGH CONCRETE) REINFORCED CONCRETE STAIRS (RISER 175MM X GOING 300MM) 1.2M WIDE WITH 1.2M LANDINGS PLUS REFUGE AREA (COMPLIES WITH TGD M ACCESS REQUIREMENTS)

LIFT & STAIR CORE: 250MM REINFORCED CAST IN SITU STAIR / LIFT CORE WALLS (TO ENGINEER'S SPECIFICATION) 120 MINUTES FIRE RATING

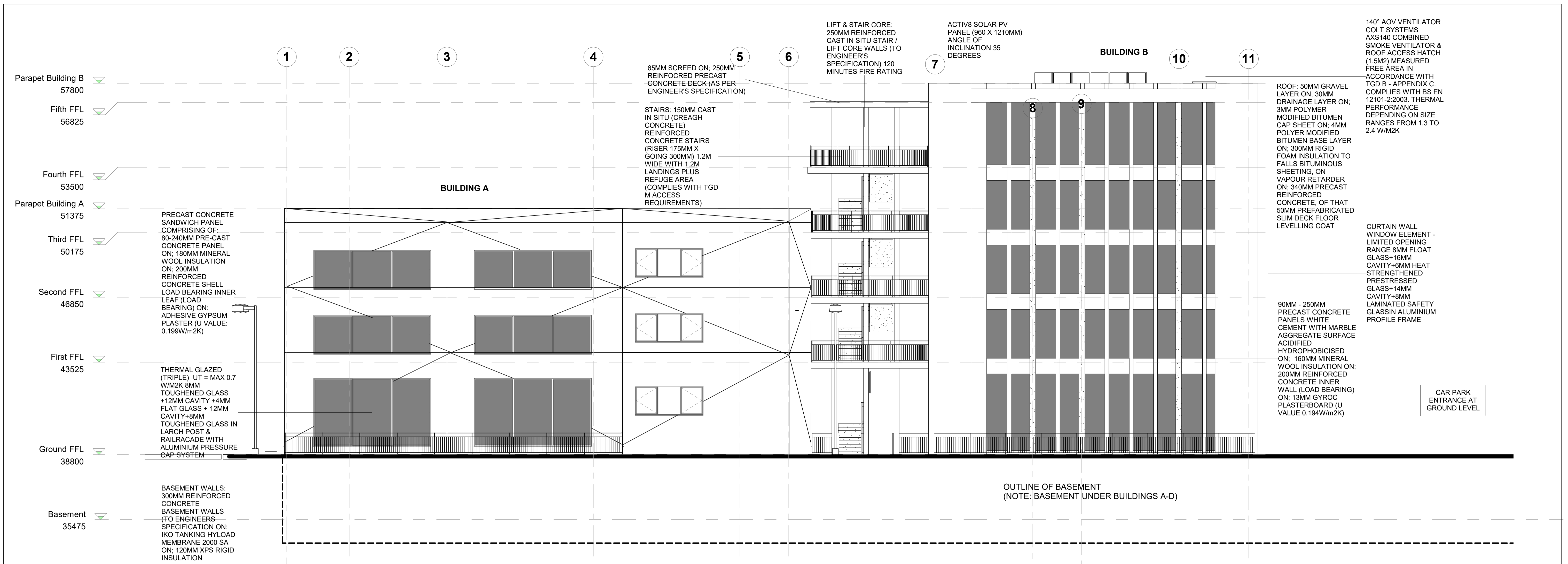
NOTE ON ROOF FALLS: IT IS GENERALLY CONSIDERED GOOD PRACTICE FOR FLAT ROOFS TO BE DESIGNED TO CLEAR SURFACE WATER AS QUICKLY AS POSSIBLE. BS 6229 AND BS8217 RECOMMEND FLAT ROOFS ARE DESIGNED WITH A MINIMUM FALLS OF 1:40 TO ENSURE A FINISHED FALL OF 1:80 CAN BE ACHIEVED ALLOWING FOR ANY INACCURACIES IN CONSTRUCTION.

SOIL VENT PIPES FOR BATHROOM SEE NOTES FOR BUILDING B

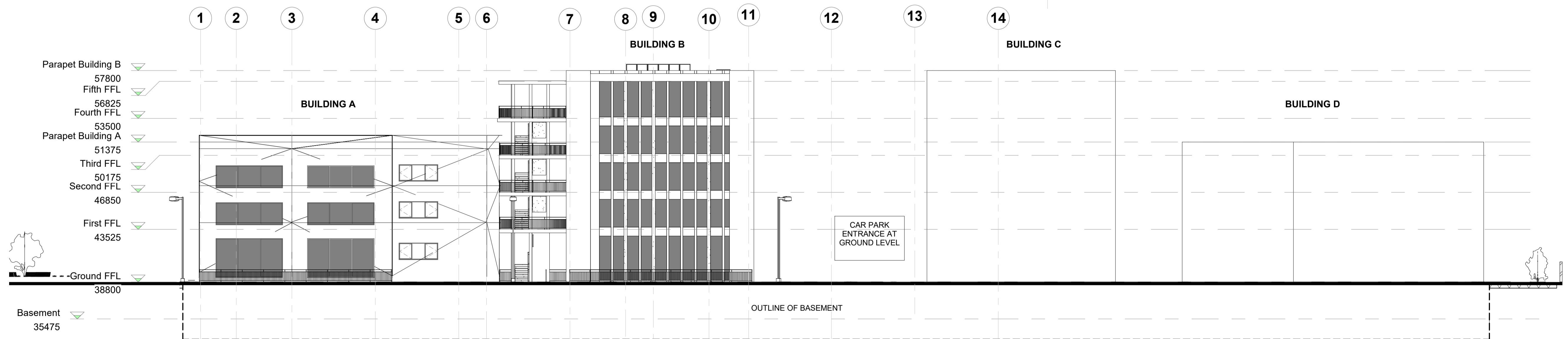
65MM SCREED ON; 250MM REINFORCED PRECAST CONCRETE DECK (AS PER ENGINEER'S SPECIFICATION)

Organisation Name TUDublin	Client Name DT175 02	Scale 1 : 100	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington		Emma Harrington DT175-02 2018_19	
Project Name TDS Project - Concrete Building	Sheet Name Typical Roof Plan	Checked by EJH	P104					



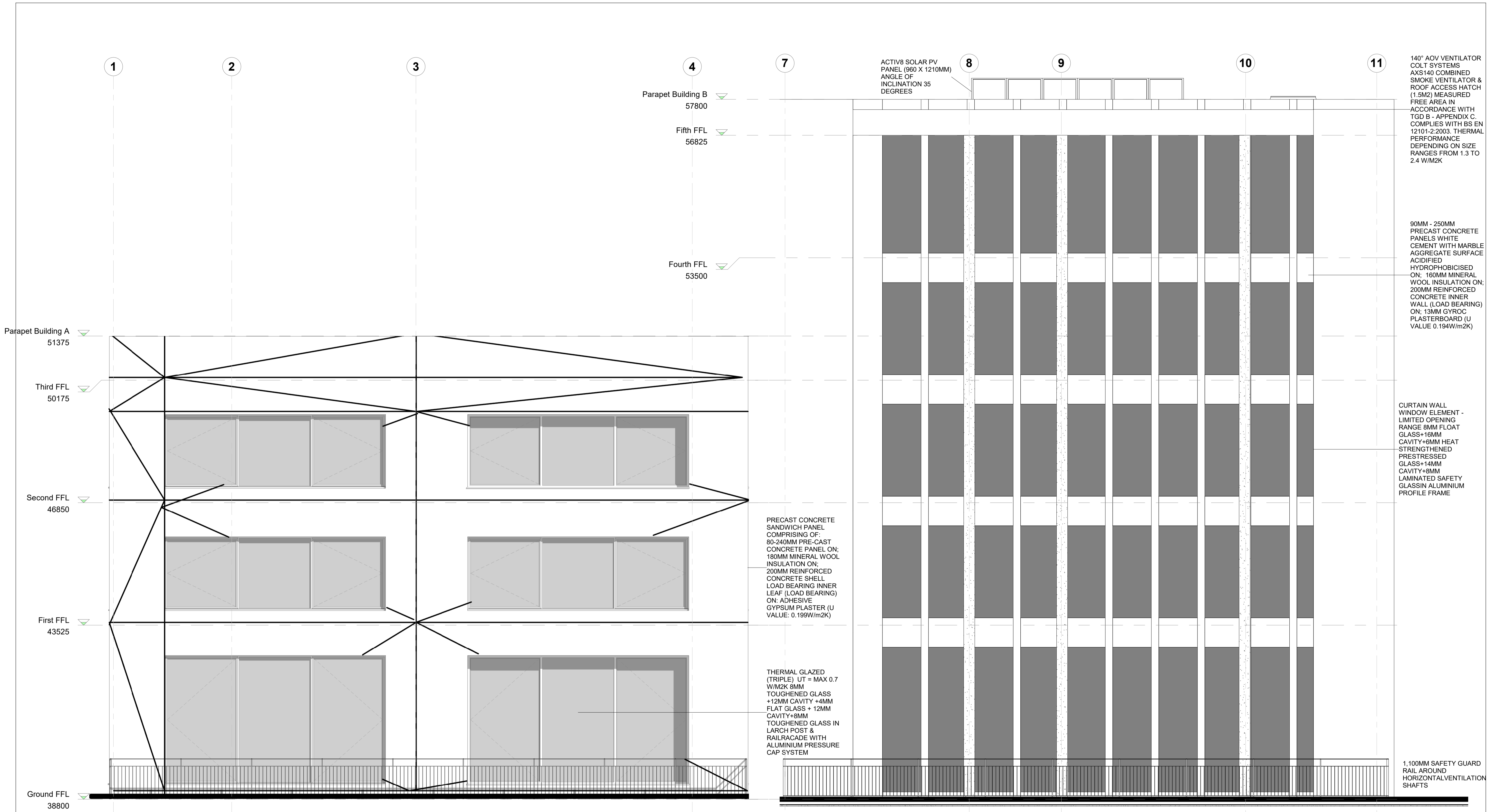


1 Front Elevation to Bannow Road
1 : 100



Organisation Name TUDublin	Client Name DT175 02	Scale As indicated	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington		Emma Harrington DT175-02 2018_19
Project Name TDS Project - Concrete Building	Sheet Name Elevations to Bannow Road	Checked by EJH	P301 & 302				

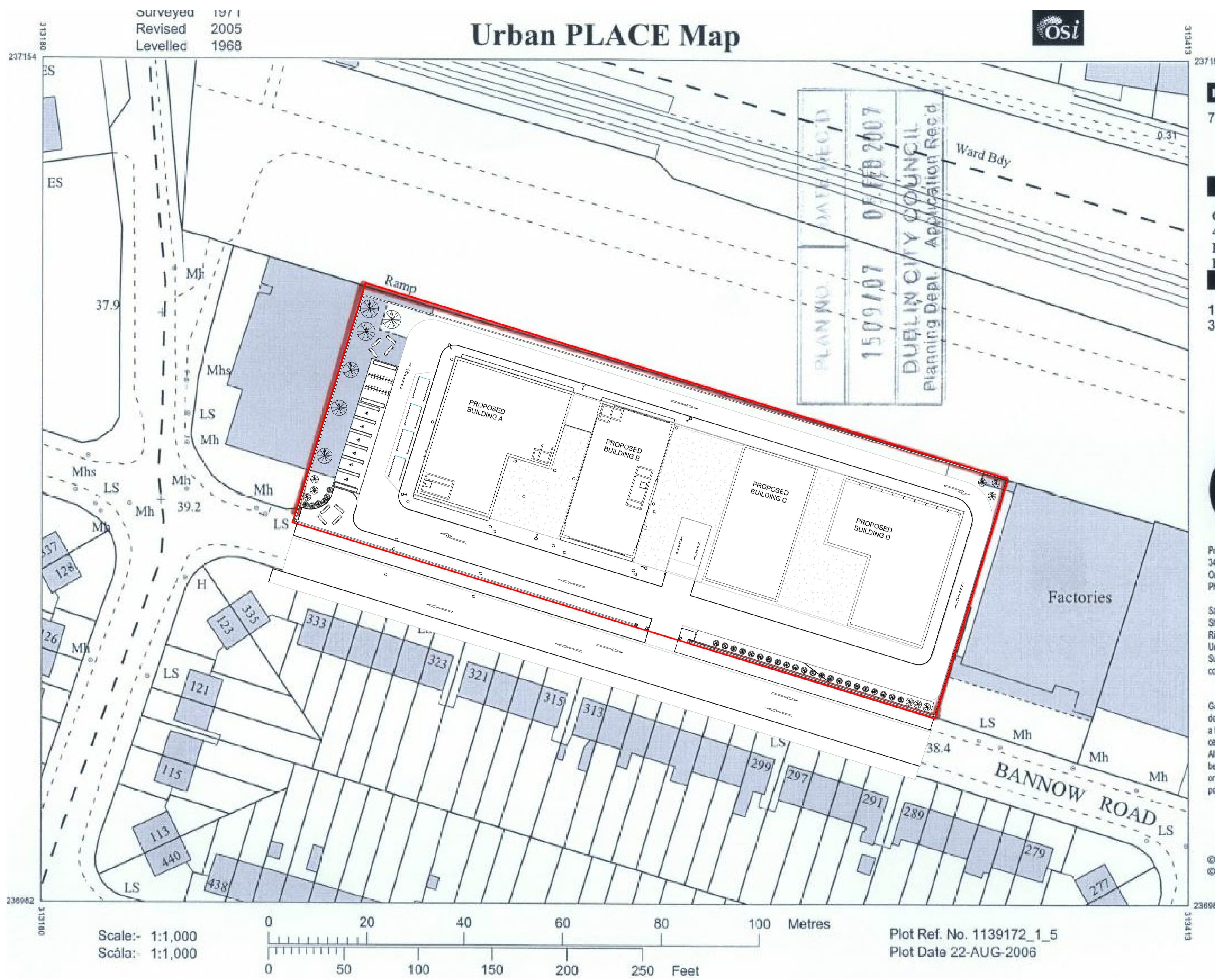




1 1.50 Bay Elevation Building A
1 : 50

2 1.50 Bay Elevations - Building B
1 : 50

Organisation Name TUDublin	Client Name DT175 02	Scale 1 : 50	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington		Emma Harrington DT175-02 2018_19	
Project Name TDS Project - Concrete Building	Sheet Name 1.50 Bay Elevation - Building A & B	Checked by EJH	P303					



ITM CENTRE PT. COORDS

713223,737094

DESCRIPTION

Owens Design
49 Saint Mobhi
Road, Glasnevin,
Dublin 9

MAP SHEETS

1:1000
3197-07



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1 Site Location / Urban Map
1 : 500

Organisation Name TUDublin	Client Name DT175 02	Scale 1 : 500	Project number TDS 4	Date 17 May 2019	Drawn by Emma Harrington	Emma Harrington DT175-02 2018_19
Project Name TDS Project - Concrete Building	Sheet Name Site Location / Urban Place Map	Checked by EJH	P100			

