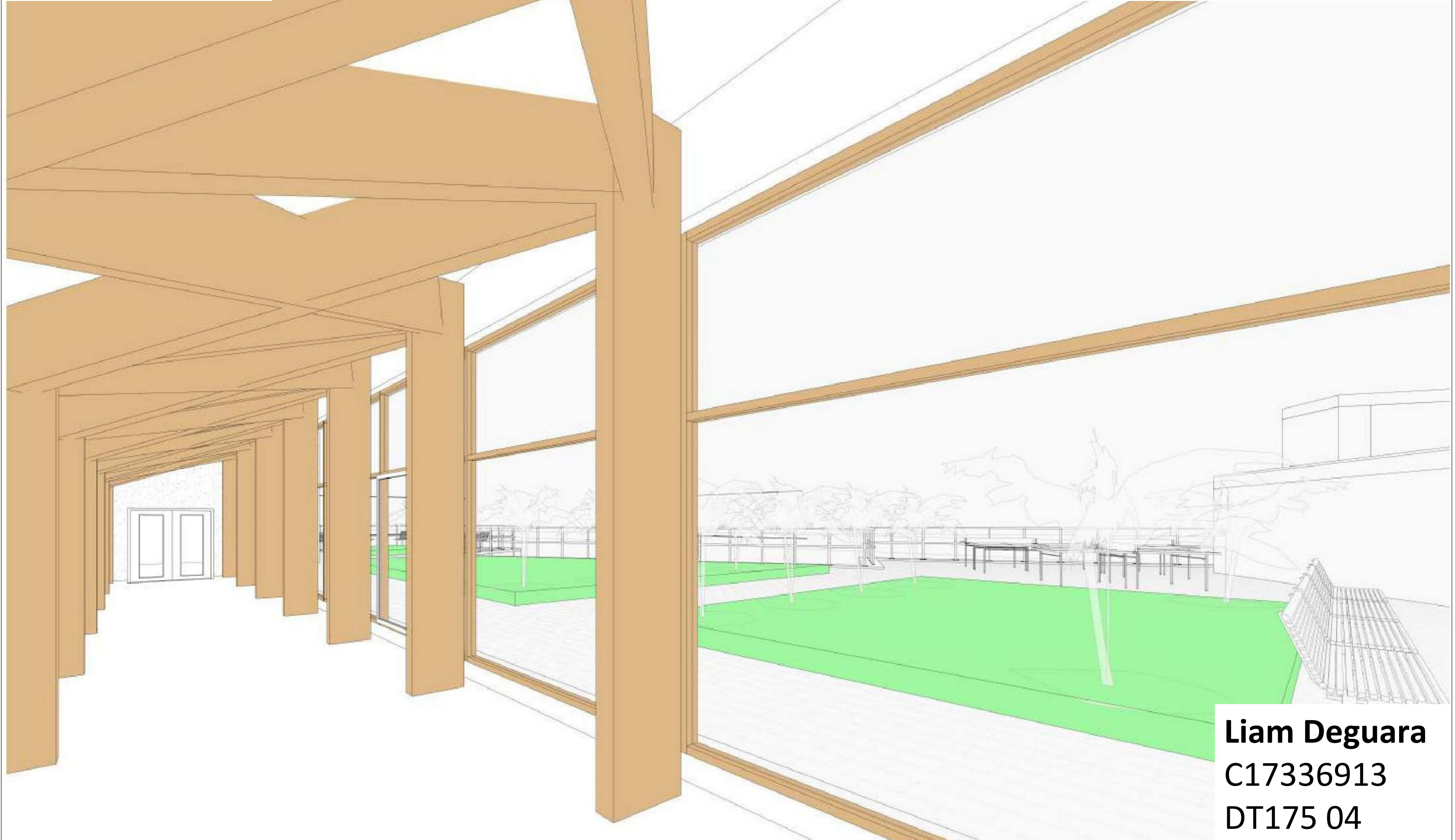


TDS - Assignment T3-2

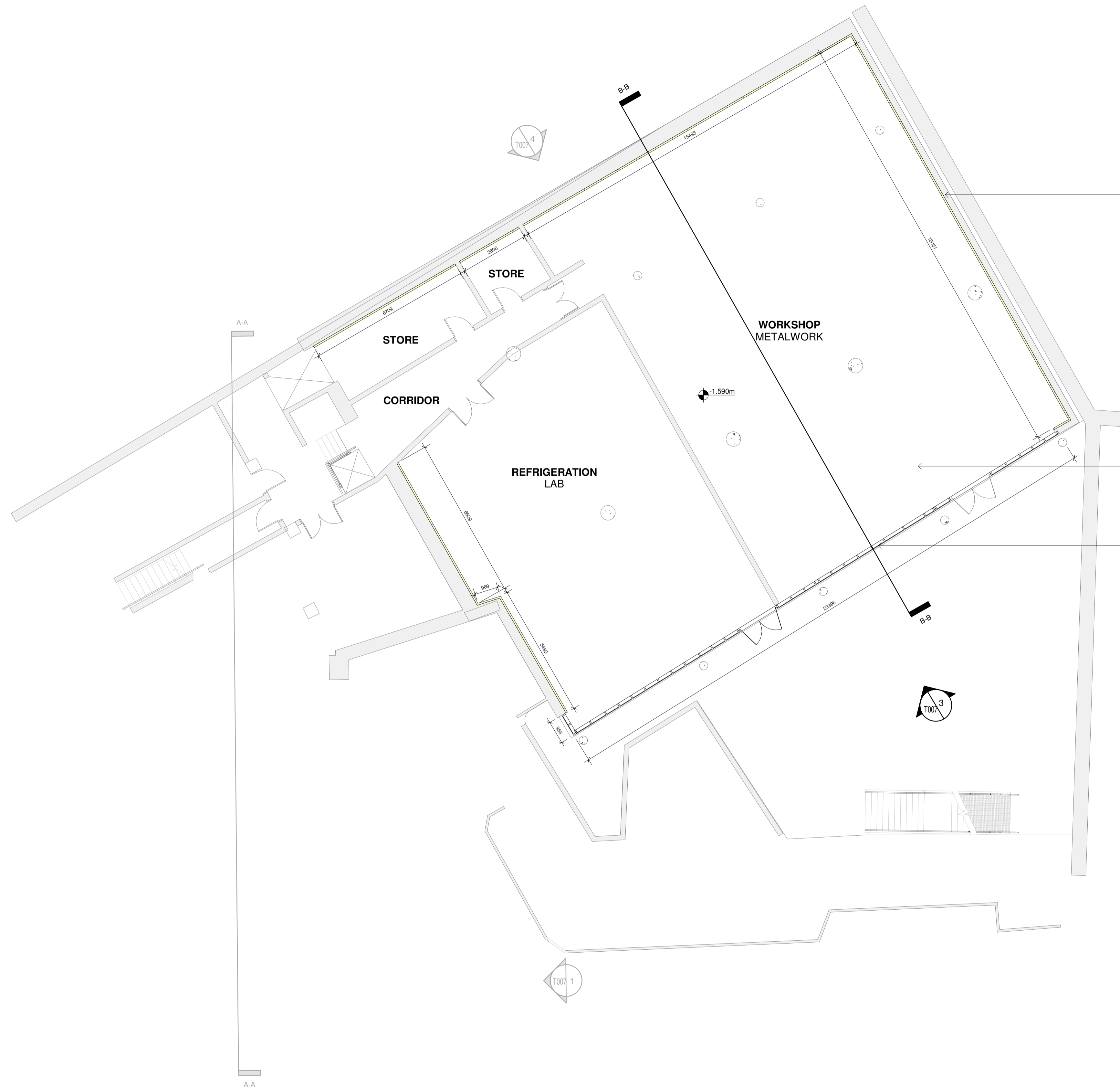
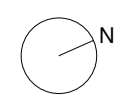
GA's and Key Construction Details



Liam Deguara
C17336913
DT175 04

Contents

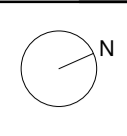
Proposed Basement Plan	T001
Proposed Ground Floor Plan With Context	T002
Proposed DSA First Floor Plan	T003
Proposed DSA 2nd Floor & Foundry 1st Floor Plan	T004
Existing Roof Demolition Plan	T005
Proposed Roof Plan	T006
Proposed Elevations	T007
Existing & Proposed Sections	T008
Proposed DSA Detail Section	T009
Proposed Foundry Detail Section	T010
Proposed External Envelope Detail Study	T011
Proposed External Envelope Detail Study	T012
Proposed Mechanical Services Detail Study	T013
Proposed Structural Detail Study	T014



WALL CONSTRUCTION 0.32W/m²K (OUTSIDE TO INSIDE)
 EXISTING CONCRETE WALL TO BE SANDBLAST POWER WASHED ON THE OUTSIDE TO CLEAN STAINING ON
 EXISTING INTERNAL PLASTER FINISH ON
 0.6mm DIASEN POLITES 140 REINFORCING MESH FIBREGLASS REINFORCING MESH ON
 70mm DIASEN DIATHONITE EVOLUTION LIME, CORK AND CLAY BASED INSULATING PLASTER ON
 1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT (2 COATS).

FLOOR CONSTRUCTION 0.41W/m²K (INSIDE TO OUTSIDE)
 2mm FORBO SAFESTEP R11 VINYL FLOOR FINISH ON
 40mm DIASEN DIATHONITE FIBRE REINFORCED INSULATION CORK AND LIME BASED FLOOR SCREED ON
 DIASEN WATSTOP EPOXY CEMENT-BASED WATERPROOF TANKING PLASTER ON EXISTING CONCRETE FLOOR.

CURTAIN WALL
 VELFAC DOUBLE GLAZED TIMBER CURTAIN WALL TO REPLACE EXISTING CURTAIN WALL.



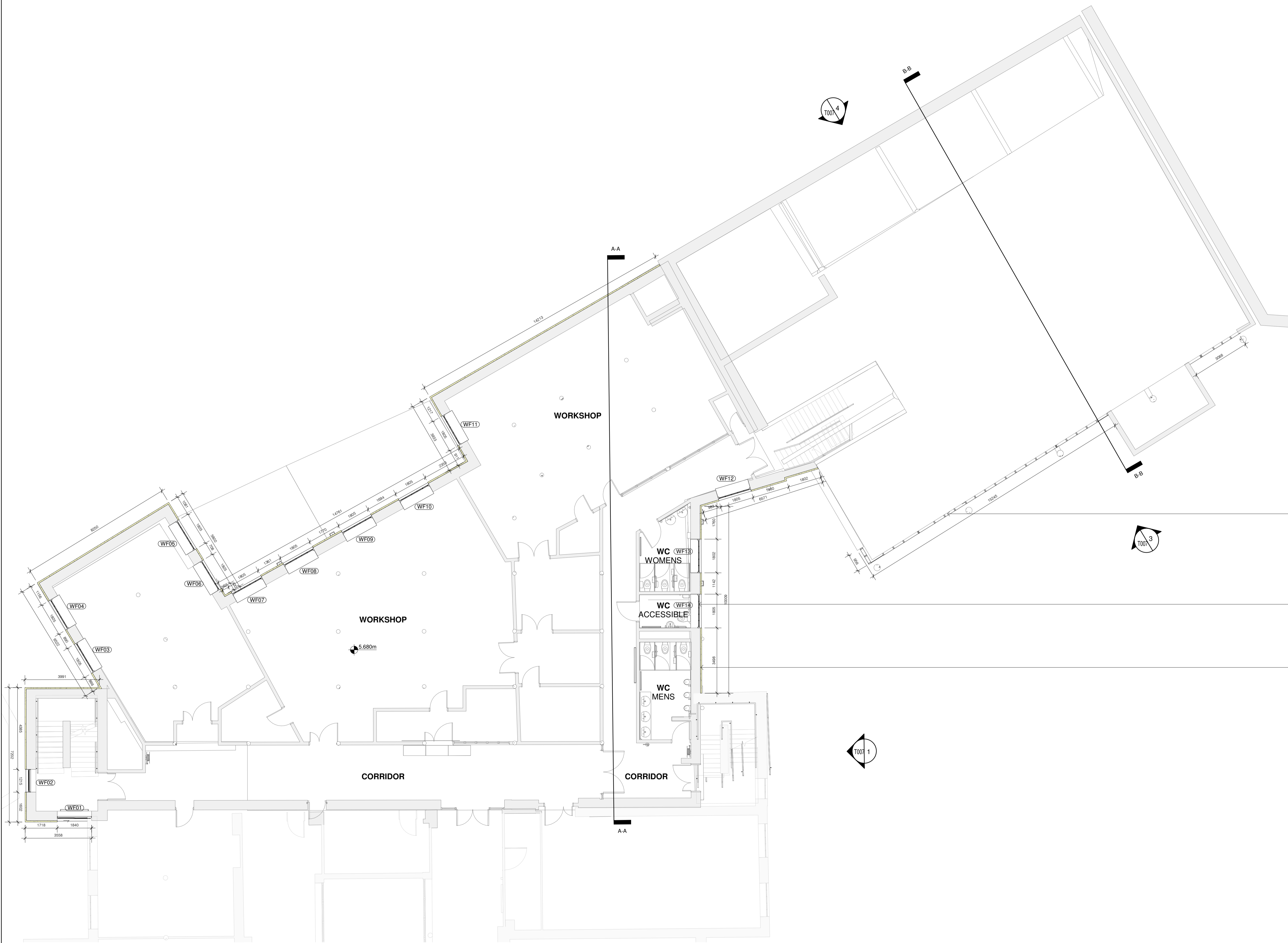
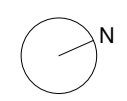
WALL CONSTRUCTION 0.32Wm²K (OUTSIDE TO INSIDE)
 EXISTING CONCRETE WALL TO BE SANDBLAST POWER WASHED ON THE OUTSIDE TO CLEAN STAINING ON
 EXISTING INTERNAL PLASTER FINISH ON
 0.6mm DIASEN POLITES 140 REINFORCING MESH FIBREGLASS REINFORCING MESH ON
 70mm DIASEN DIATHONITE EVOLUTION LIME, CORK AND CLAY BASED INSULATING PLASTER ON
 1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT (2 COATS).

FLOOR CONSTRUCTION 0.41Wm²K (INSIDE TO OUTSIDE)
 2mm FORBO SAFESTEP R11 VINYL FLOOR FINISH ON
 40mm DIASEN DIATHONITE FIBRE REINFORCED INSULATION CORK AND LIME BASED FLOOR SCREED ON
 DIASEN WATSTOP EPOXY CEMENT-BASED WATERPROOF TANKING PLASTER ON EXISTING CONCRETE FLOOR.

CURTAIN WALL
 VELFAC DOUBLE GLAZED TIMBER CURTAIN WALL TO REPLACE EXISTING CURTAIN WALL.

Ground Floor Plan With Context
 1 : 100

	No. Date Revision	Initials	PRJ No. : 3.2		DRAWING No. T002	STATUS Tender
			SCALE : 1 : 100		PROJECT: TU Dublin, Linenhall, Henrietta Pl, Dublin, D07 Y4C0	
			DATE: 17/12/2020		DRAWING: Proposed Ground Floor Plan With Context	
			REV: _____		ARCHITECT: Liam Deguara	
		DRN: LD	CHKD: DK	ISO REF: 3.2-LD-01-GF-DR-A-T002		




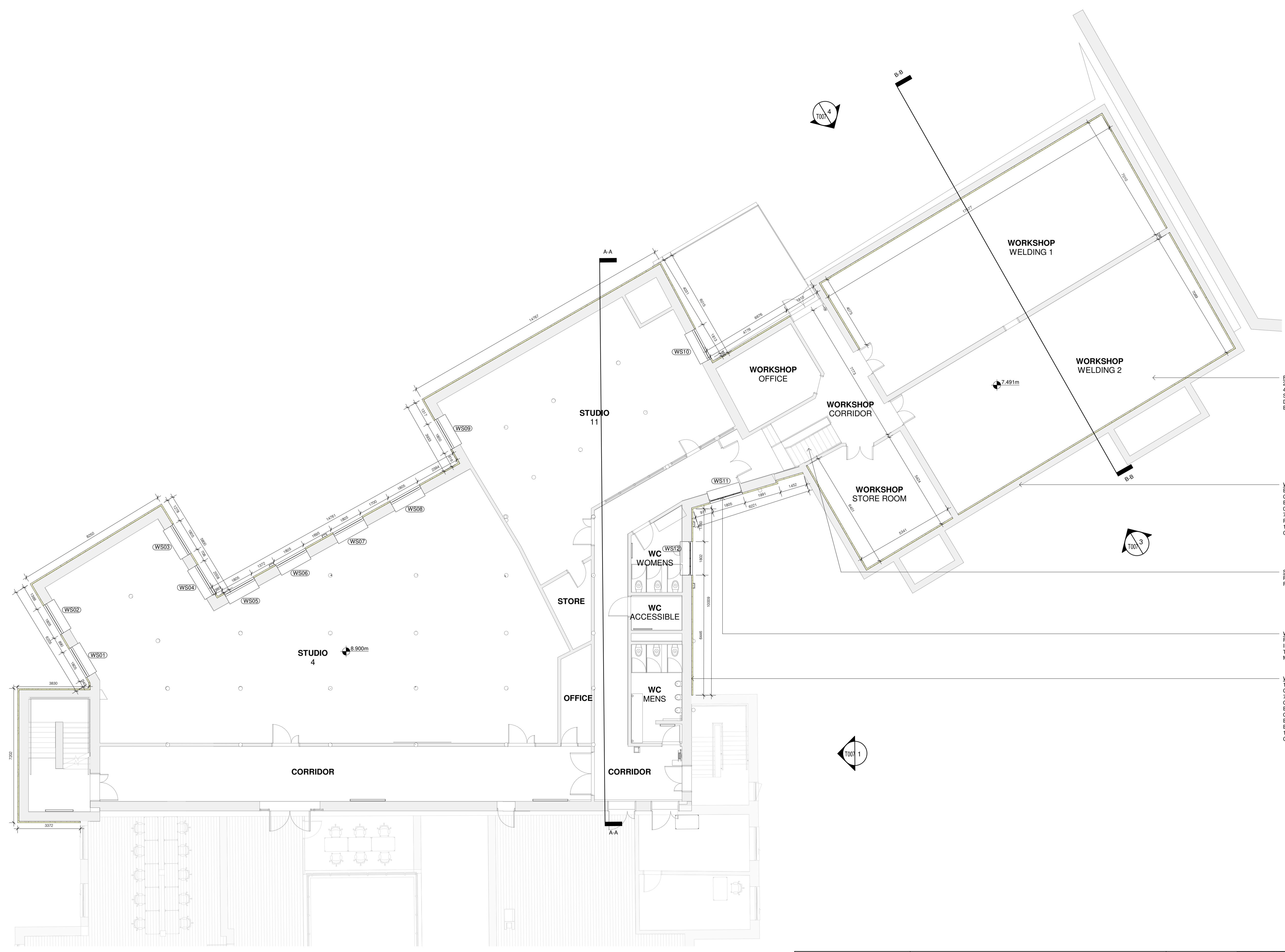
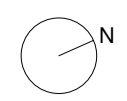
CURTAIN WALL
VELFAC DOUBLE GLAZED TIMBER CURTAIN WALL TO REPLACE EXISTING CURTAIN WALL.

WINDOW 1.29Wm²K
RATIONAL AURAPLUS DOUBLE GLAZED ALUMINIUM-CLAD TIMBER FRAME WINDOW
INSTALLED TO MANUFACTURER'S SPECIFICATION.
THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING WINDOWS AND
MEASURING UP AND ORDERING WINDOWS BASED ON SITE DIMENSIONS.

WALL CONSTRUCTION 0.32Wm²K (OUTSIDE TO INSIDE)
1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT
(2 COATS) ON
70mm DIASEN DIATHONITE EVOLUTION LIME, CORK AND CLAY BASED INSULATING
PLASTER ON
EXISTING EXTERNAL PEBBLE DASH RENDER FINISH (ACTING AS A KEY FOR DIATHONITE)
ON
EXISTING CONCRETE WALL ON
EXISTING INTERNAL PLASTER FINISH ON
1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT
(2 COATS).

1st Floor Plan
1 : 100

	No. Date Revision	Initials	PRJ No. : 3.2	DRAWING No. T003	STATUS Tender
			SCALE: 1 : 100	PROJECT: TU Dublin, Linenhall, Henrietta Pl, Dublin, D07 Y4C0	
			DATE: 17/12/2020	DRAWING: Proposed DSA First Floor Plan	
			REV:	ARCHTECT: Liam Deguara	
			DRN: LD	CHKD: DK	ISO REF: 3.2-LD-01-01-DR-A-T003



FLOOR CONSTRUCTION 0.41Wm²K (INSIDE TO OUTSIDE)
 2mm FORBO SAFESTEP R11 VINYL FLOOR FINISH ON
 40mm DIASEN DIATHONITE FIBRE REINFORCED INSULATION CORK AND LIME BASED FLOOR
 SCREED ON
 DIASEN WATSTOP EPOXY CEMENT-BASED WATERPROOF TANKING PLASTER ON
 EXISTING CONCRETE FLOOR.


WALL CONSTRUCTION 0.32Wm²K (OUTSIDE TO INSIDE)
 EXISTING CONCRETE WALL TO BE SANDBLAST POWER WASHED ON THE OUTSIDE TO
 CLEAN STAINING ON
 EXISTING INTERNAL PLASTER FINISH ON
 0.6mm DIASEN POLITES 140 REINFORCING MESH FIBREGLASS REINFORCING MESH ON
 70mm DIASEN DIATHONITE EVOLUTION LIME, CORK AND CLAY BASED INSULATING
 PLASTER ON
 1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT (2
 COATS).

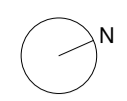
STAIRS
 REMOVE EXISTING TILES AND RETAIN FOR ROOF PARK TILE MOSAIC.
 FINISH CONCRETE STAIRS WITH 2mm FORBO SAFESTEP R11 VINYL FLOOR FINISH.

WINDOW 1.29Wm²K
 RATIONEL AURAPLUS DOUBLE GLAZED ALUMINIUM-CLAD TIMBER FRAME WINDOW
 INSTALLED TO MANUFACTURER'S SPECIFICATION
 THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING WINDOWS AND
 MEASURING UP AND ORDERING WINDOWS BASED ON SITE DIMENSIONS.

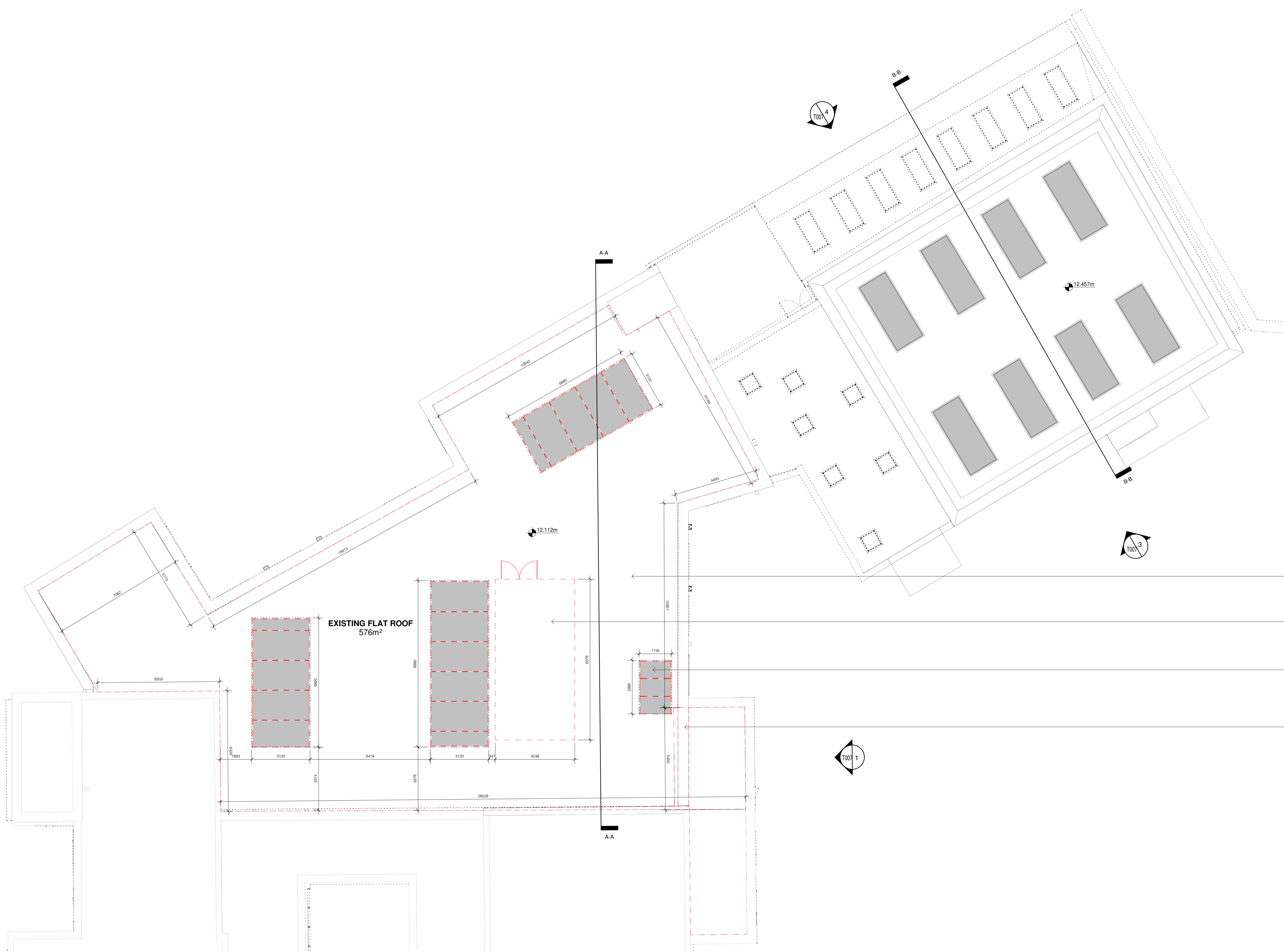
WALL CONSTRUCTION 0.32Wm²K (OUTSIDE TO INSIDE)
 1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT (2
 COATS) ON
 70mm DIASEN DIATHONITE EVOLUTION LIME, CORK AND CLAY BASED INSULATING PLASTER
 ON
 EXISTING EXTERNAL PEBBLE DASH RENDER FINISH (ACTING AS A KEY FOR DIATHONITE)
 ON
 EXISTING CONCRETE WALL ON
 EXISTING INTERNAL PLASTER FINISH ON
 1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT (2
 COATS).

2nd Floor Plan
 1 : 100

	No. Date Revision	Initials	PRJ No. : 3.2	DRAWING No. T004	STATUS Tender
			SCALE: 1 : 100	PROJECT: TU Dublin, Linenhall, Henrietta Pl, Dublin, D07 Y4C0	
			DATE: 17/12/2020	DRAWING: Proposed DSA 2nd Floor & Foundry 1st Floor Plan	
			REV:	ARCHITECT: Liam Deguara	
		DRN: LD	CHKD: DK	ISO REF: 3.2-LD-01-ZZ-DR-A-T004	





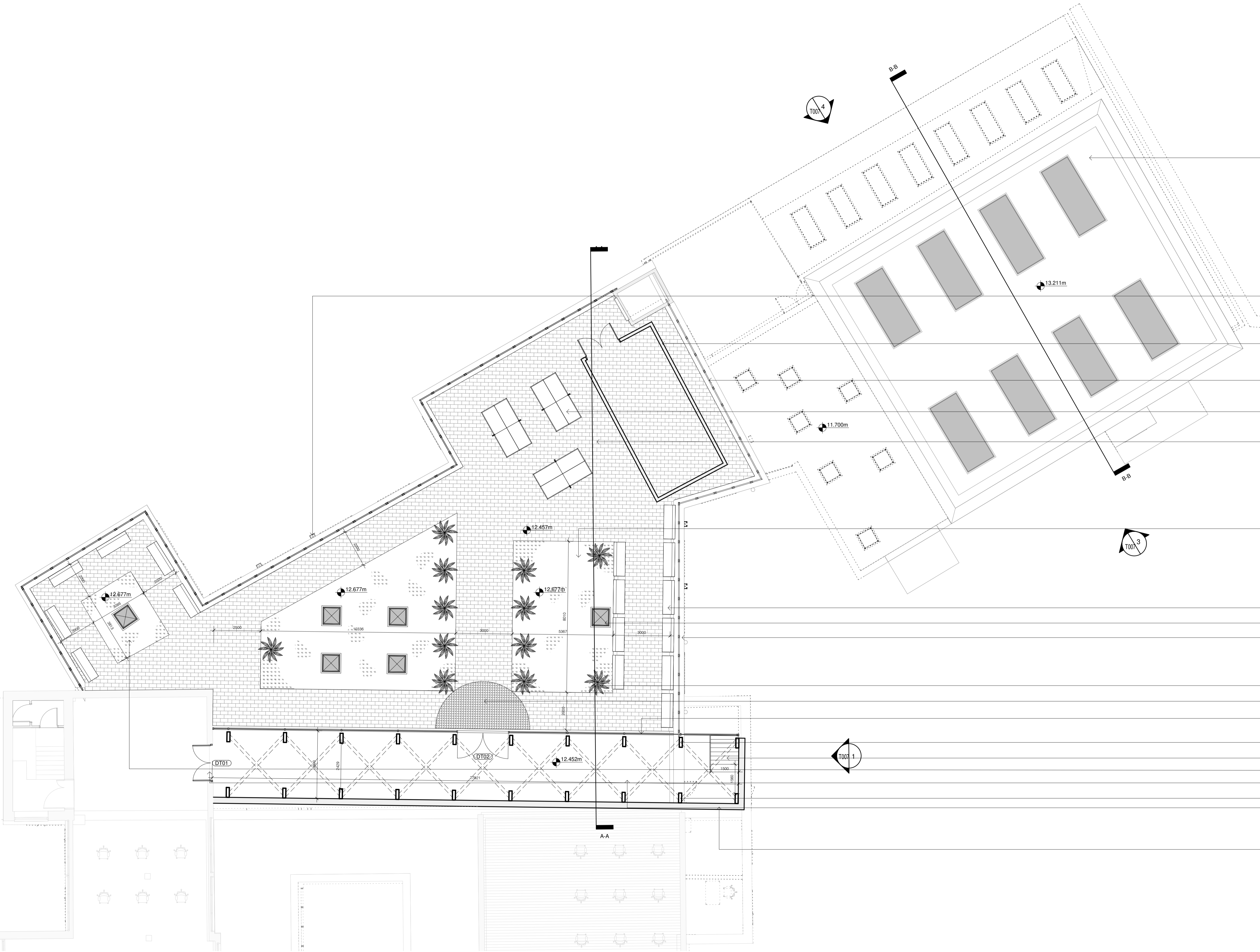
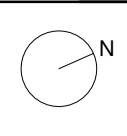
--- TO BE DOMOLISHED BY MAIN CONTRACTOR



- DEMOLISH EXISTING CONCRETE FLAT ROOF
- RETAIN EXISTING WATER TANK STORAGE SHED FOR RELOCATION
- DEMOLISH EXISTING ROOFLIGHTS
- DEMOLISH EXISTING SECTION OF THE PARAPET



Existing Roof Plan - Demolition
 1 : 100

 <p>TECHNOLOGICAL UNIVERSITY DUBLIN</p>	No. Date Revision	Initials	PRJ No.: 3.2		DRAWING No.: T005	STATUS: Tender	
					SCALE: 1 : 100	PROJECT: TU Dublin, Linenhall, Henrietta Pl, Dublin, D07 Y4C0	
					DATE: 17/12/2020	DRAWING: Existing Roof Demolition Plan	
					REV:	ARCHITECT: Liam Deguara	
					DRN: LD	CHKD: DK	ISO REF: 3.2-LD-01-XX-DR-A-T005



- ROOF CONSTRUCTION 0.25Wm²K (OUTSIDE TO INSIDE)
EXISTING BITUMEN ROOF FINISH ON
EXISTING CONCRETE SLAB ON
0.6mm DIASEN POLITES 140 REINFORCING MESH FIBREGLASS REINFORCING MESH ON
50mm DIASEN DIATHONITE EVOLUTION LIME, CORK AND CLAY BASED INSULATING
PLASTER ON
1-1.5mm DIASEN ARGACEM HP SMOOTHING LIME BASED FINISHING PLASTER SKIM COAT
(2 COATS).
- HOPPER
HARMER ALUMINIUM HOPPER HEAD ON
100mm DIAMETER HARMER ALUMINIUM RAINWATER DOWNPIPE.
- RELOCATED WATER TANK STORAGE SHED
- GUARDRAIL
MIN. 1100mm HEIGHT SKYWAY GUARDRAIL FIXED TO EXISTING PARAPET.
- TABLE TENNIS TABLE
- PAVED ROOF CONSTRUCTION 0.24Wm²K (OUTSIDE TO INSIDE)
50x60x900mm CONCRETE PAVING ON
30mm CRUSHED GRAVEL ON
1mm BAUDER FILTER FLEECE ON
40mm BAUDER DSE 40 WATER RETENTION AND DRAINAGE LAYER ON
6mm BAUDER FSM 600 PROTECTION LAYER ON
0.2mm BAUDER PE FOIL SEPARATION LAYER
5.2mm BAUDER Plant E ROOT RESISTANT SBS MODIFIED BITUMEN MEMBRANE ON
30-190mm BAUDER PIR FA TAPERED INSULATION @ 1:50 SLOPE ON
160mm BAUDERPIR FA-TE FLATBOARD INSULATION ON
2.5mm BAUDERTEC KSD MICA AIR & VAPOUR CONTROL LAYER ON
75mm STRUCTURAL SCREED ON
300mm PRECAST CONCRETE HOLLOWCORE SLAB.
- GREEN ROOF CONSTRUCTION 0.24Wm²K (OUTSIDE TO INSIDE)
150mm BAUDER INTENSIVE SUBSTRATE AND TURF LIGHTWEIGHT GROWING MEDIUM ON
1mm BAUDER FILTER FLEECE ON
40mm BAUDER DSE 40 WATER RETENTION AND DRAINAGE LAYER ON
6mm BAUDER FSM 600 PROTECTION LAYER ON
0.2mm BAUDER PE FOIL SEPARATION LAYER
5.2mm BAUDER Plant E ROOT RESISTANT SBS MODIFIED BITUMEN MEMBRANE ON
30-190mm BAUDER PIR FA TAPERED INSULATION @ 1:50 SLOPE ON
160mm BAUDERPIR FA-TE FLATBOARD INSULATION ON
2.5mm BAUDERTEC KSD MICA AIR & VAPOUR CONTROL LAYER ON
75mm STRUCTURAL SCREED ON
300mm PRECAST CONCRETE HOLLOWCORE SLAB.
- TIMBER PARK BENCH
- ROOFLIGHT 1.6Wm²K
BAUDER EUROGLAZE ROOFLIGHT
PARAPET CAPPING
0.8mm ZINC CAPPING PIECE ON
1mm ZINC FOLDED CLIP ON
5.2mm BAUDER Plant E ROOT RESISTANT SBS MODIFIED BITUMEN MEMBRANE ON
2.5mm BAUDERTEC KSD MICA AIR & VAPOUR CONTROL LAYER ON
70mm BAUDERPIR FA-TE FLATBOARD INSULATION ON
EXISTING CONCRETE WALL PARAPET.
- PALM TREE
- BROKEN TILE MOSAIC MADE FROM RECLAIMED TILES
- CURTAIN WALL
VELFAC TRIPLE GLAZED TIMBER CURTAIN WALL.
- 160x520x3000mm GLULAM COLUMN
- NEW FLIGHT OF TIMBER STAIRS TO MEET ROOF LEVEL
- WILD FLOWER BED
- NEW DOUBLE DOOR
- 160x520x4000mm GLULAM COLUMN
- FLOOR CONSTRUCTION (INSIDE TO OUTSIDE)
FLOOR FLOORBOARDS ON
19mm TIMBER FLOORBOARDS ON
18mm PLYWOOD SHEATHING ON
300 x 75mm G24 SW TIMBER JOISTS ON
75mm STRUCTURAL SCREED ON
300mm PRECAST CONCRETE HOLLOWCORE SLAB.
- WALL CONSTRUCTION 0.10Wm²K (OUTSIDE TO INSIDE)
0.7mm STANDING SEAM ZINC SHEET ON
POLYMER BITUMEN MEMBRANE SEPARATING LAYER ON
120mm GUTEX THERMOSAFE-HOMOGENE® FOOD FIBRE INSULATION (2 LAYERS) ON
80mm CROSS LAMINATED TIMBER ON
160 x 520mm GLULAM PORTAL FRAME STRUCTURE.

Proposed Roof Plan
1 : 100

	No.	Date	Revision						
	Initials								
	PRJ No.: 3.2								
	SCALE: 1 : 100								
	DATE: 17/12/2020								
REV:									
DRN: LD CHKD: DK									
					DRAWING No: T006 STATUS: Tender PROJECT: TU Dublin, Linenhall, Henrietta Pl, Dublin, D07 Y4C0 DRAWING: Proposed Roof Plan ARCHITECT: Liam Deguara ISO REF: 3.2-LD-01-XX-DR-A-T006				