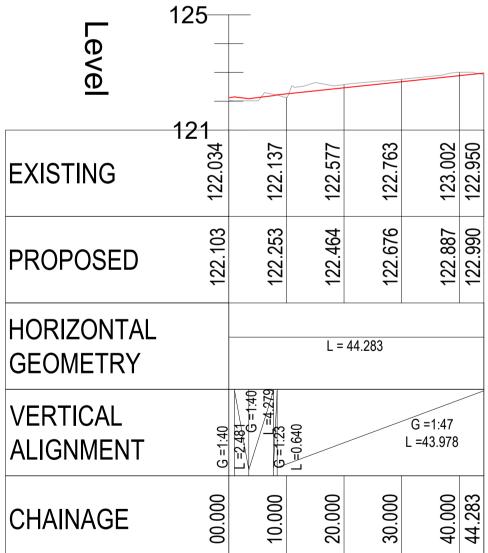


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							Purpose PART 8 PLANNING		
S UNLESS NOTED E USED. NO					ΛΤΚΙΝ	Client Cork City Council	Title PROPOSED LONGITUDINAL ROAD SECTIONS		
	P04 ISSUED FOR PART 8 PLANNING P03 ISSUED FOR PRE-PART 8			MB MOS MK MOS		Project	Original Scale H 1:1000 Design/Drawn GM MK MOS Data Design/Drawn Checked Authorised Design/Drawn Checked Che		
	P02REVISED FOR STAGE 2AP01ISSUED FOR STAGE 2A			MK MOS MK MOS	Atkins House, 150 Airside Business Unit 2B, 2200 Cork Airport 2nd Floor Technology Park, Swords, Co. Dublin Business Park, Cork Parkmore Technology Park, Ork Tel (+353) 01 810 8000 Tel (+353) 021 429 0300 Tel (+353) 091 70 Fax (+353) 01 810 8001 Fax (+353) 021 429 0360 Fax (+353) 091 70	Phase 3B	V 1:200 Date 10.05.21 Date 10.05.21 Date 10.05.21 Status Drawing Number Rev		
	Rev Description	Ву	Date	Chk'd Auth			P CNW P3B-ATK-P3B-XX-DR-C-950760 P04		

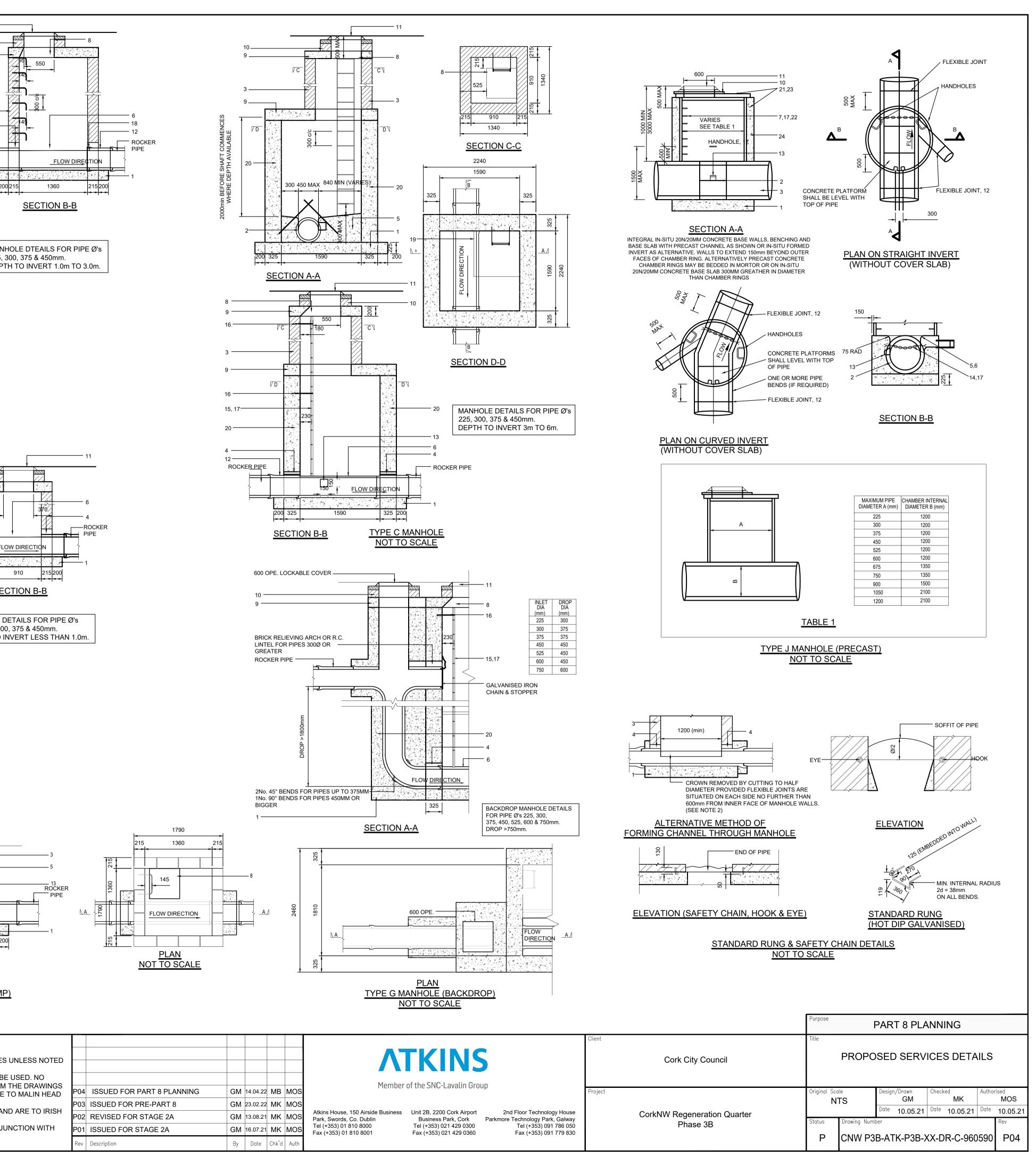
MAIN ROAD 04 - LONGSECTION

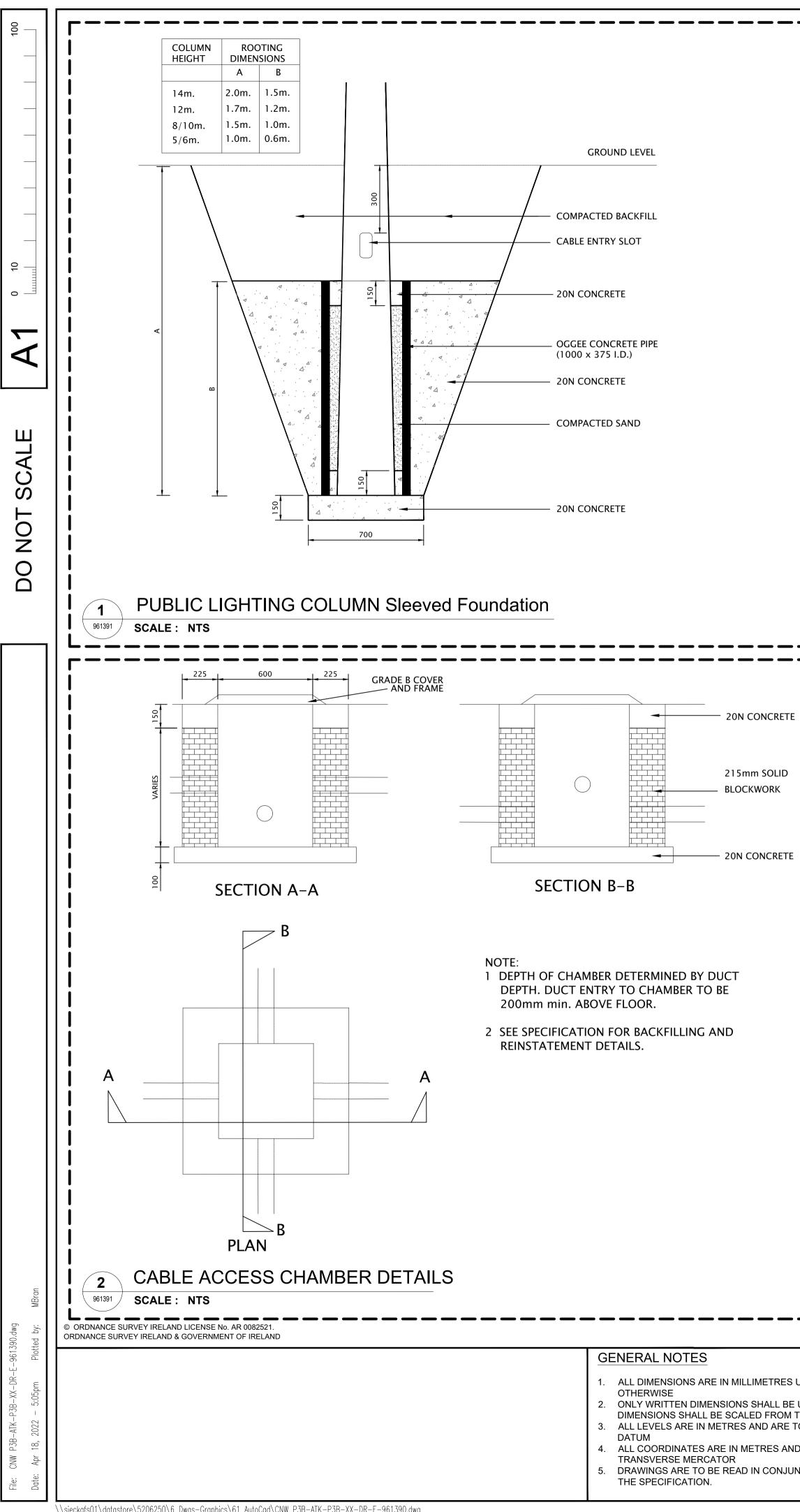


100	MANHOLE GENERAL NOTES: I.) ALL BRICK TO BE SOLID ENGINEERING BRICK CLASS A OR B II.) FOR PIPE DIAMETER >750MM USE MANHOLE WITH INTERNAL DIAMETER SIZE = PIPE SIZE + 1 METER + 300MM III.) DISTANCE FROM TOP RUNG OF THE LADDER TO GROUND LEVEL MUST BE A MAXIMUM OF 500MM	
_	MANHOLE DRAWING NOTES:	7,17
	1.) 225mm THICK CL20/20 MASS CONCRETE FOUNDATIONS.	250,450 max 660 min 3
	2.) PREFORMED HALF CIRCLE CHANNEL PIPES. THE PIPELINE MAY WHERE PRACTICABLE, BE LAID THROUGH THE MANHOLE AND THE CROWN CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM THE INNER FACE OF THE MANHOLE WALL.	
0 10	 3.) MANHOLE CONSTRUCTION FOR SURFACE WATER MANHOLES HIGH DENSITY BLOCKS TO CL.S10 OF I.S.20 PART 1: 1987 OR CL.30/20 IN-SITU CONCRETE. BLOCKWORK SHALL BE BEDDED AND JOINTED USING MORTAR DESIGNATION THREE TO I.S.406. BEDS AND VERTICAL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID. JOINTS SHALL BE FLUSH POINTED AS THE WORK PROCEEDS ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (MIN CLASS A OR B), OR IN-SITU CONCRETE FOR 1m ABOVE BENCHING LEVEL 	SECTION A-A
A1	 BRICK TO BE BONDED TO BLOCKWORK USING ENGLISH GARDEN WALL BOND. 4.) RELIVING ARCH FORMED BY 215x103x65 BRICK CLASS A OR B AS PER DRAWING. RELIEVING ARCHES USED IN BRICK OR BLOCKWORK MANHOLES TO EXTEND OVER FULL THICKNESS OF WALL. A DOUBLE ARCHE IS TO BE FORMED FOR PIPE DIAMETERS GREATER THAN 600mm. 	MANI 225, 3 DEPT
	5.) BENCHING AND PIPE CHANNEL PIPE SURROUND -CL.20/20 CONCRETE.	
	6.) BENCHING FINISHED IN 2:1 SAND-CEMENT MORTAR WITH SMOOTH TROWEL FINISH,	
SCALE	AT 1 IN 30 SLOPE TOWARDS CHANNEL. 7.) STANDARD RUNGS AT 300c/c VERTICALLY AND GALVANISED TO LATEST VERSION OF BS729 OR EQUIVALENT.	
S	8.) 600mm SQUARE OPE. IN ROOF SLAB.	
	9.) PRECAST R.C. ROOF SLAB SHALL BE 200MM THICK IN CL.30N/20MM CONCRETE, WITH 40MM COVER TO STEEL.	
NOT	10.) 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS B TO I.S.91:1983 SET IN HIGH STRENGTH MORTAR (MIN 60N AFTER 14 DAYS)	BTYPE B MANHOLEPLANNOT TO SCALE
	11.) CLASS D400 OR E600 MANHOLE COVER AND FRAME TO IS/EN 124. 150mm DEEP FRAME FOR ROADS, 100mm DEEP FOR FOOTPATHS AND GREEN AREAS. NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), 600x600 (OR 600 DIAM) CLEAR OPENING, COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE A MINIMUM MASS OF 140kg/m2, FRAME BEARING AREA SHALL BE 80,000mm2 MIN.,FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURER'S CONSTRUCTIONS.	
	12.) SHORT LENGTH PIPE, PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.	
	13.) TOE HOLES OF 230mm MIN. DEPTH AND GALVANISED STEEL SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525 DIAMETER, AND DEPTH TO INVERT >3m FOR ACCESS TO INVERT.	2 5 3 12 FLC 5 3 12 12 12 12 12 12 12 12 12 12
	14.) SAFETY CHAIN TO BE PROVIDED ON PIPES THAT EXCEED450mm IN DIAMETER. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE M(H) NON CALIBRATED CHAIN TYPE 1, COMPLYING WITH BS: 4942 Part 2 OR EQUIVALENT.	<u>SECTION A-A</u>
	15.) WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED, INSTEAD OF RUNGS, TO BS4211 EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65x12mm IN SECTION AND RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS 4211.	B 1340 910 910 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	16.) LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m. STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL.	
	17.) ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIP GALVANISED TO BS729.	
	18.) SOCKET OF PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT THE CHANNEL EXTENDS FULL LENGTH OF THE MANHOLE (EXCEPT FOR PRECAST MANHOLES).	
	19.) POSITION OF 910 SQUARE OPENING IN INTERMEDIATE ROOF SLAB.	
	-ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER. -FORMWORK TO REINFORCEMENT CONCRETE AND MASS CONCRETE SHALL COMPLY TO CLASS 2, SECTION 6.2.7, BS8110: PART 1: 1997. -FINISH TO THE TOP OF SLABS SHALL COMPLY TO TYPE A, SECTION 6.2.7, BS8110: PART 1: 1997.	BTYPE A MANHOLEPLANNOT TO SCALE
	-PLAN DIMENSIONS OF MANHOLES ARE BASED ON BLOCKWORK HAVING A CO-ORDINATING SIZE OF 450x225x100. -MANHOLES ARE DESIGNED TO BS8005 AND WALL THICKNESSES TO IS325 BLOCKWORK DESIGN CODE TAKING GRANULAR FILL PRESSURE AND H.B. SURCHARGE. -REINFORCEMENT TO SLABS TO ENGINEERS DETAILS.	INLET DIA "H" (MAX) (mm) (mm) 145
	20.) FOR MANHOLES >3.0m DEPTH TO INVERT USE 30N/20 IN-SITU CONCRETE. REINFORCING MESH REF. A393 @6.16kg/m TO BE FIXED AT MID POINT OF WALL. ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.	225 600 300 600 375 750 450 750
	21.) FOR PRECAST MANHOLES, CHAMBER WALLS AND COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 AND 1S 420 2004.	525 750 600 750 750 750
	22.) MANHOLE OPENING TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS/ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC.	WHEN THE DROP "H" IS GREATER THAN THE MAX. VALUE SHOWN USE BACKDROP MANHOLE.
	23.) FOR BEDDING AND SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST COVER SLAB) AND BOTTOM TING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PRE-FORMED JOINTING STRIP.	RAMP MANHOLE DETAIL FOR
MBran	24.) PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150MM THINK GRADE C20/40 CONCRETE	PIPE Ø's 150, 225, 300, 375, 450, 525, 600 & 750mm. DROP < 750mm <u>NOT TO SCALE</u>
J.dwg by:	© ORDNANCE SURVEY IRELAND LICENSE No. AR 0082521. ORDNANCE SURVEY IRELAND & GOVERNMENT OF IRELAND	
-960590.dwg Plotted by:		GENERAL NOTES
-DR-C- m		1. ALL DIMENSIONS ARE IN MILLIMETRES
3B-XX-D - 4:59pm		OTHERWISE 2. ONLY WRITTEN DIMENSIONS SHALL BE
P3B-ATK-P3B-XX-DR-C 18, 2022 - 4:59pm		DIMENSIONS SHALL BE SCALED FROM 3. ALL LEVELS ARE IN METRES AND ARE
		DATUM 4. ALL COORDINATES ARE IN METRES AN TRANSVERSE MERCATOR
File: CNW Date: Apr		5. DRAWINGS ARE TO BE READ IN CONJU THE SPECIFICATION.

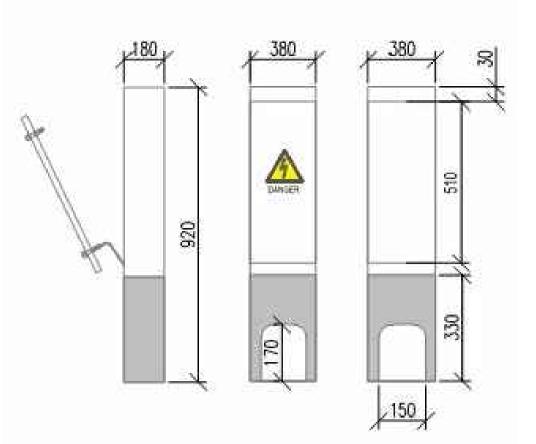
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THE SPECIFICATION.





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KEY NOTES: 1. THE PILLAR SHALL BE FITTED WITH LOCKABLE FULLY REMOVABLE DOOR.

- 2. THE PILLAR SHALL BE GALVANISED INTERNALLY AND EXTERNALLY TO BS EN
- 3. INCLUDE FOR EARTH LEAD CONNECTION SUPPLIED FROM PILLAR BODY TO
- 4. DANGER WARNING LABEL SHALL BE FITTED TO A DOOR
- 5. ALL OUTGOING LIGHT CIRCUITS SHALL BE INDIVIDUALLY FUSED, CAPABLE OF ACCOMMODATING CABLE SIZES UP TO 25mm².
- 6. THE FUSE SHALL BE RATED 16kA WITH MINIMUM RUPTURING CAPACITY AND SHALL COMPLY T BS 1361

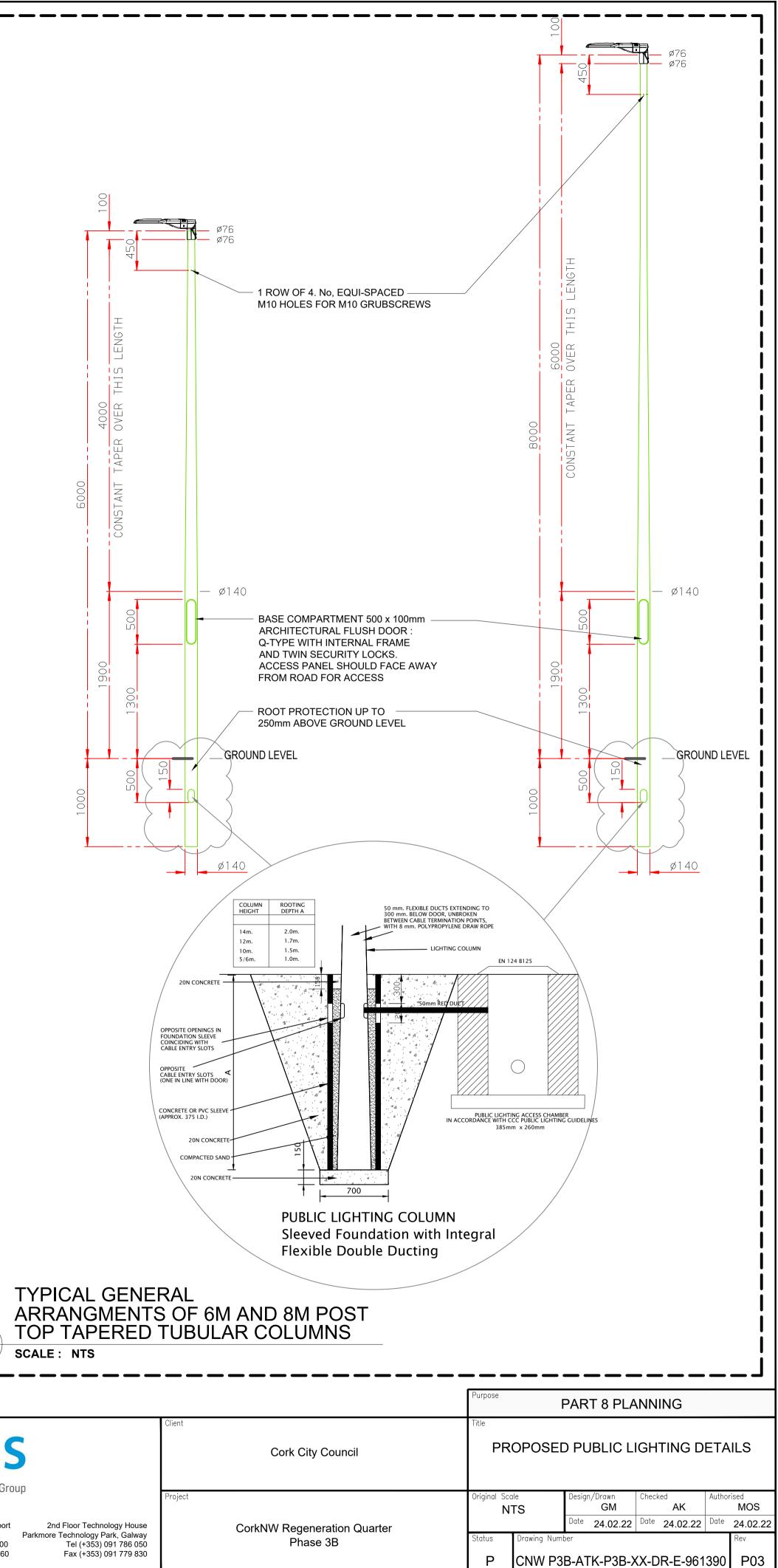
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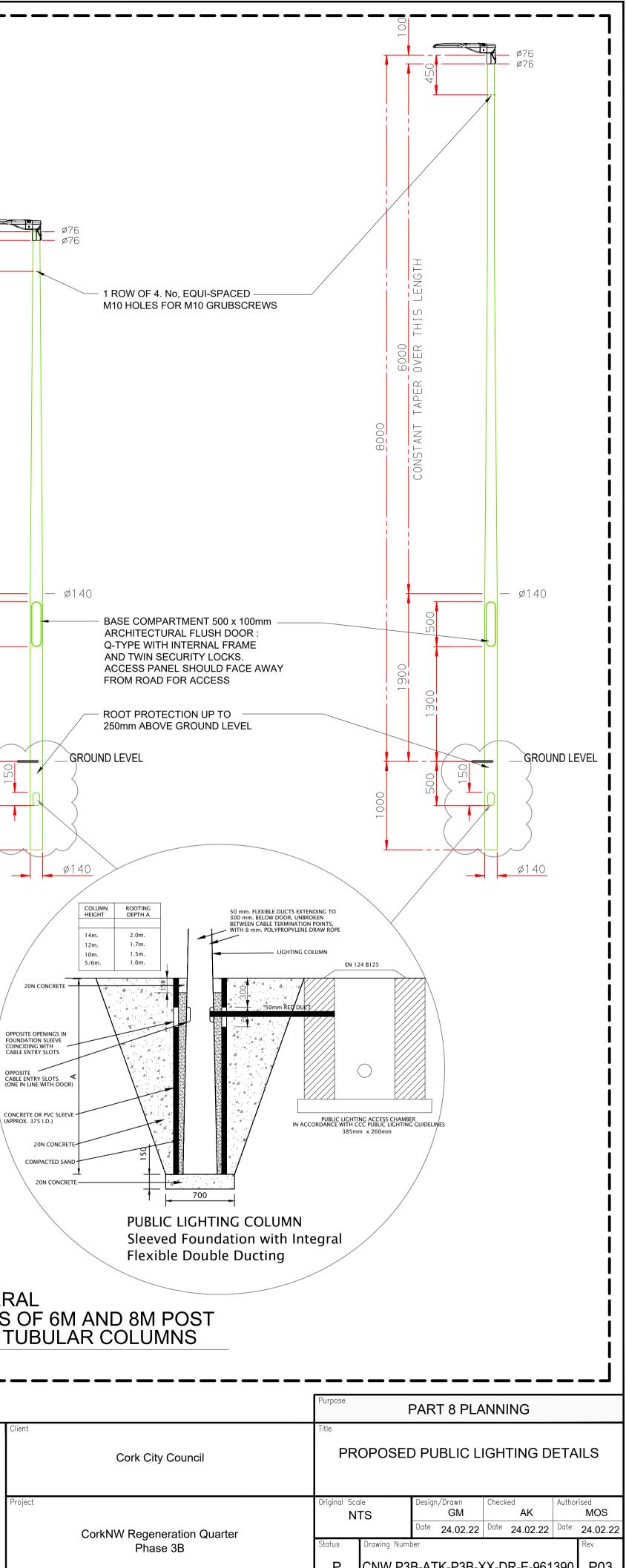
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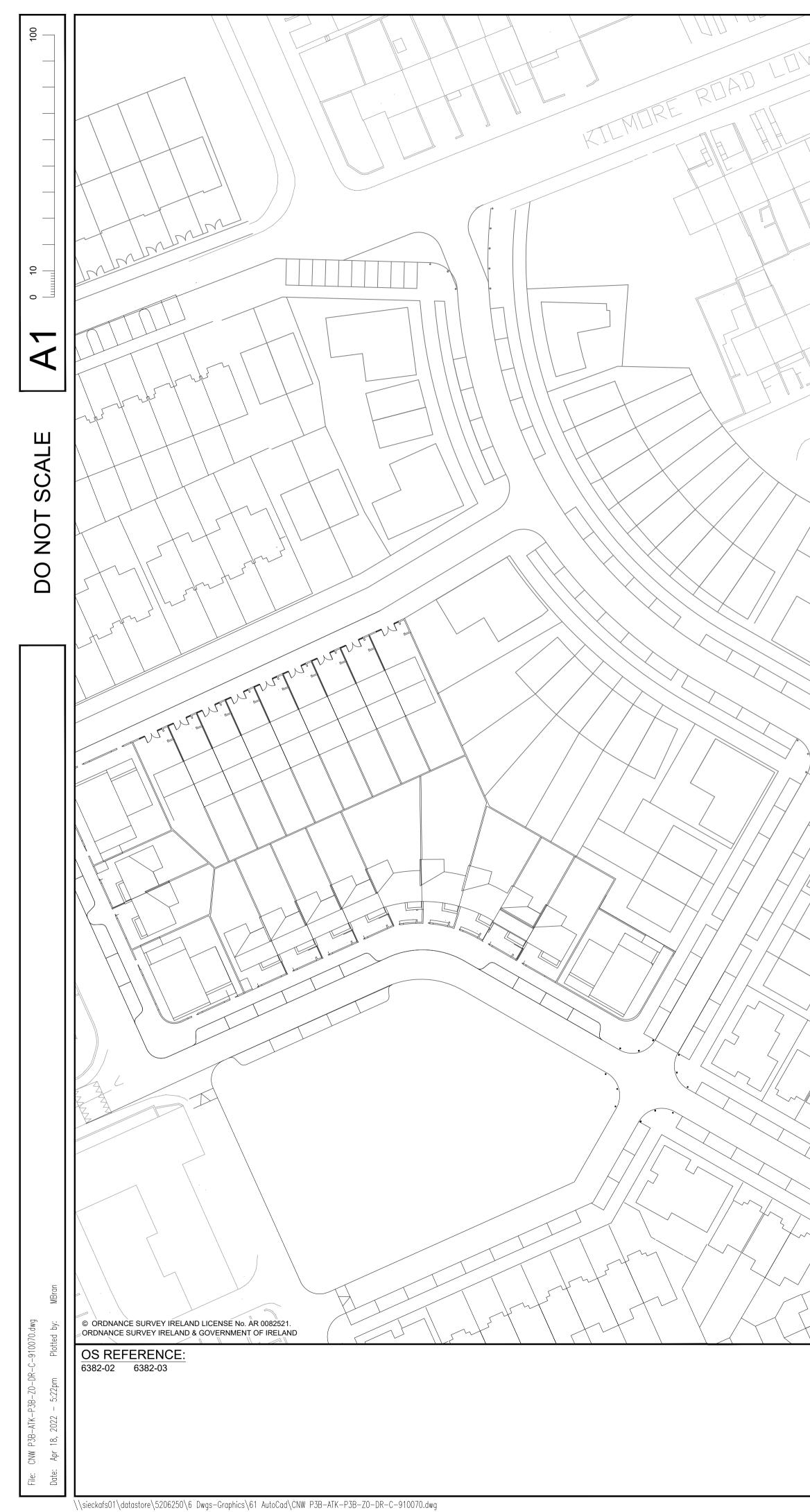




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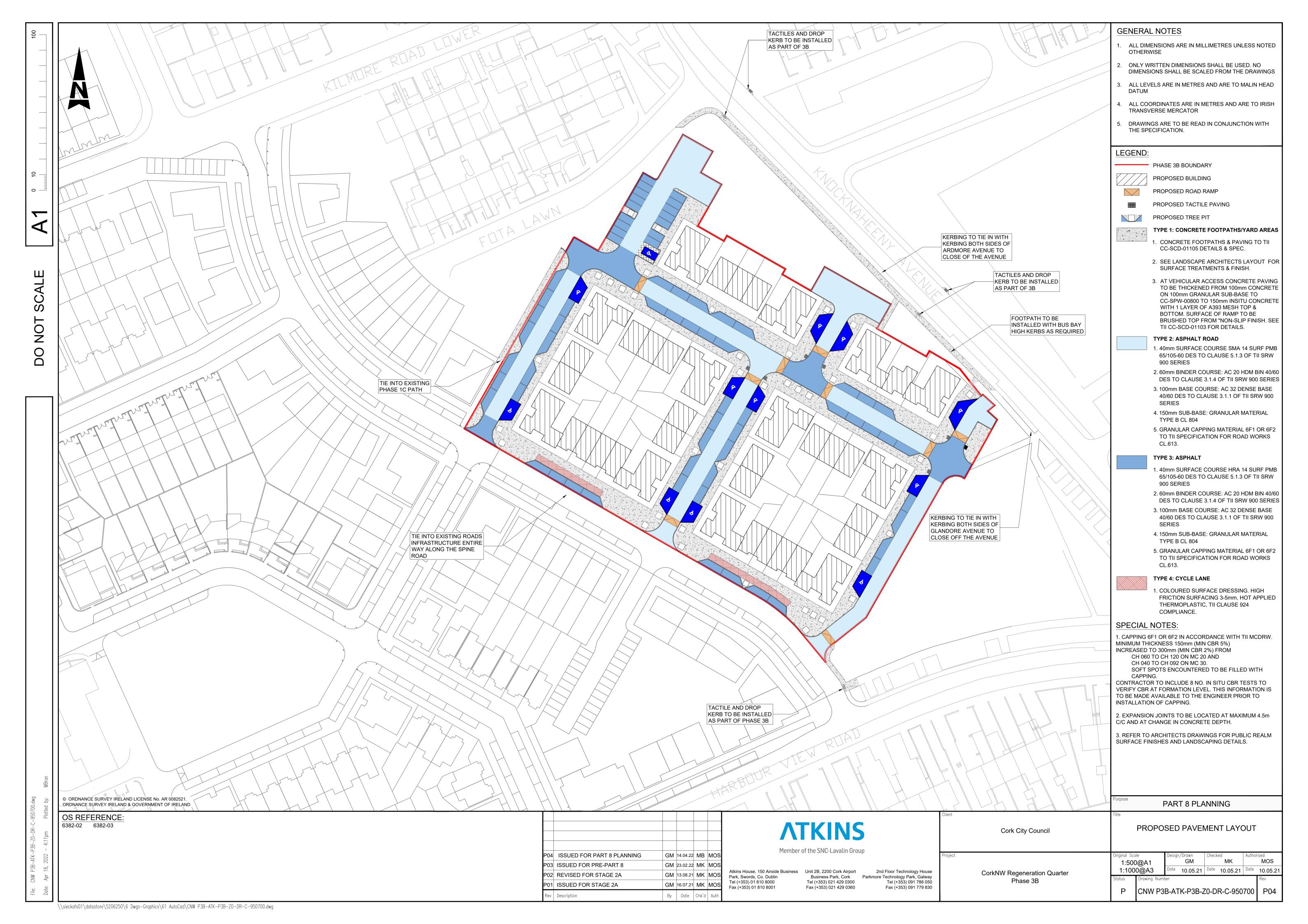
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D ARE TO IRISH	P02	ISSUED FOR PRE-PART 8	AL	24.02.22	AK	MOS	Atkins House, 150 Airside Business Park, Swords, Co. Dublin	Unit 2B, 2200 Cork Airport Business Park, Cork
NCTION WITH	P01	ISSUED FOR STAGE 2A	GM	21.07.21	AK	MOS	Tel (+353) 01 810 8000 Fax (+353) 01 810 8001	Tel (+353) 021 429 0300 Fax (+353) 021 429 0360
	Rev	Description	Ву	Date	Chk'd	Auth	· ·	、 <i>·</i>

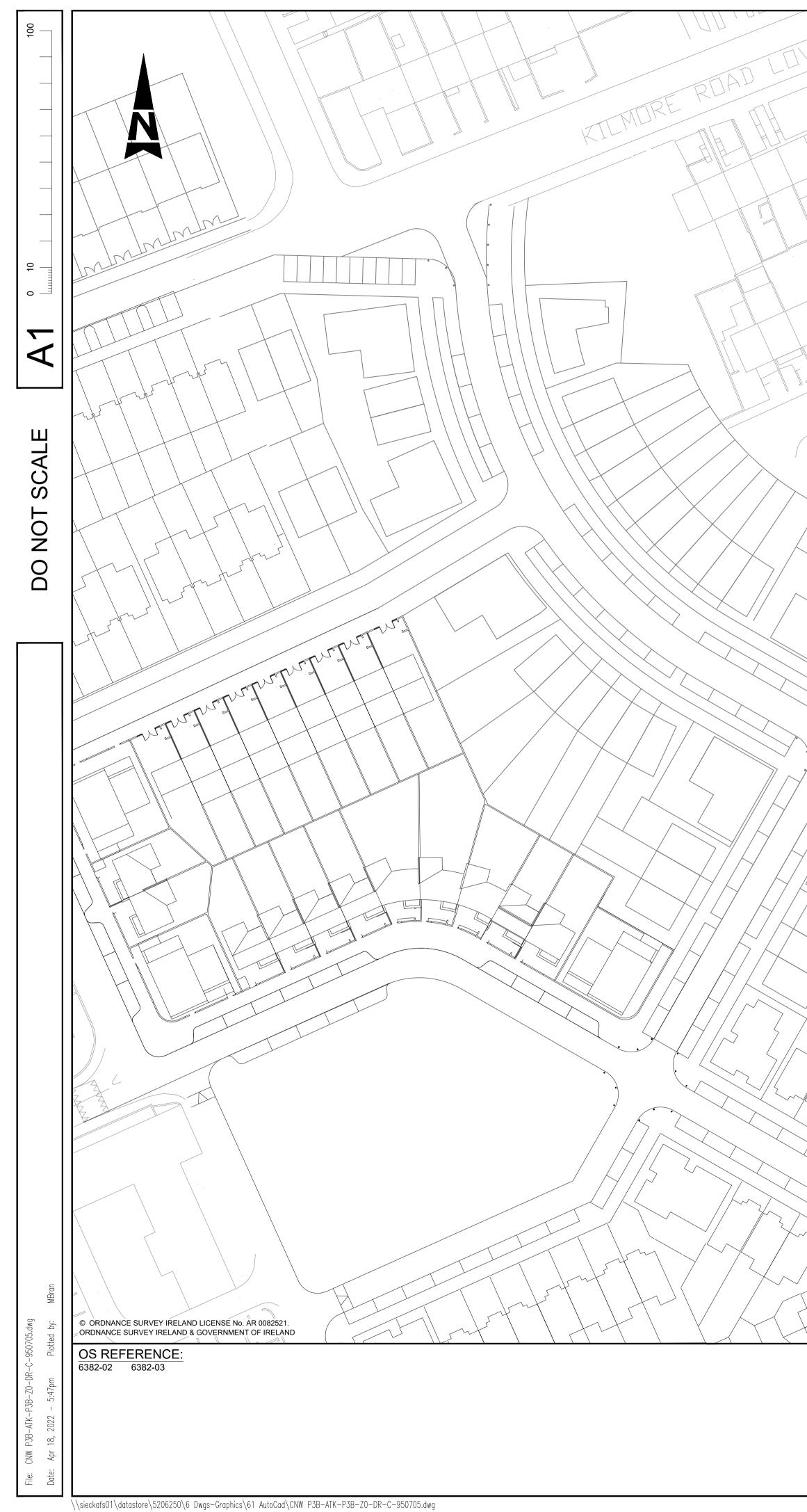
2nd Floor Technology House Parkmore Technology Park, Galway



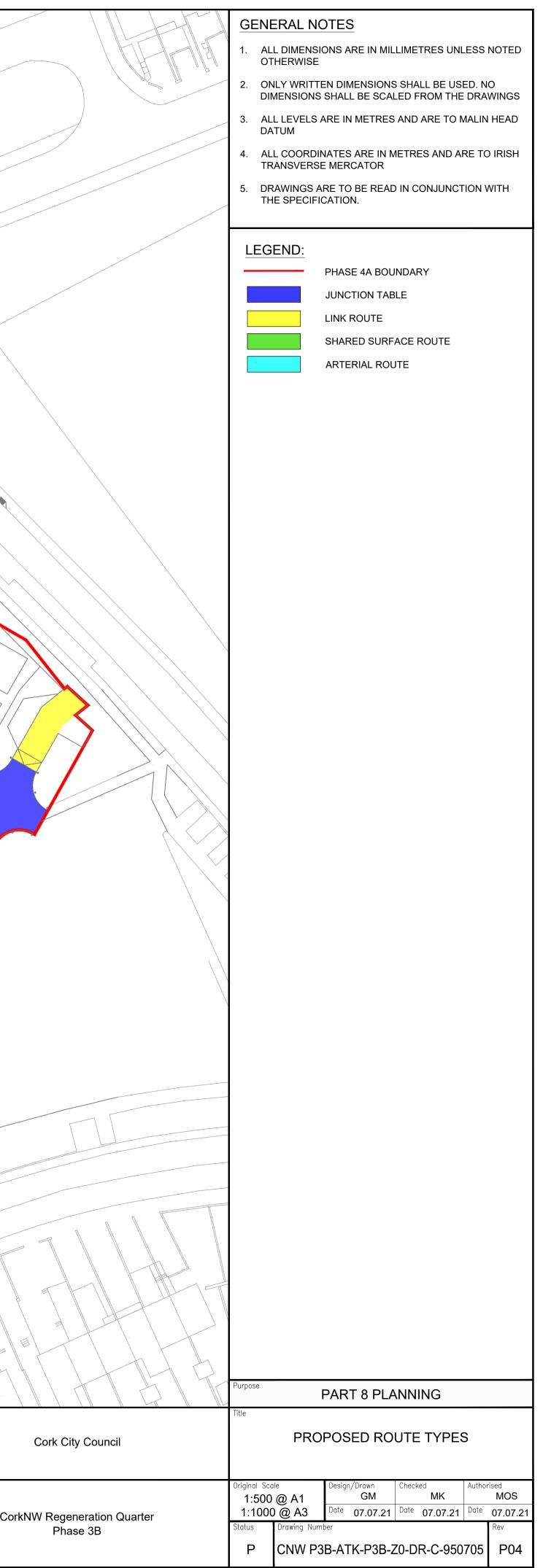
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