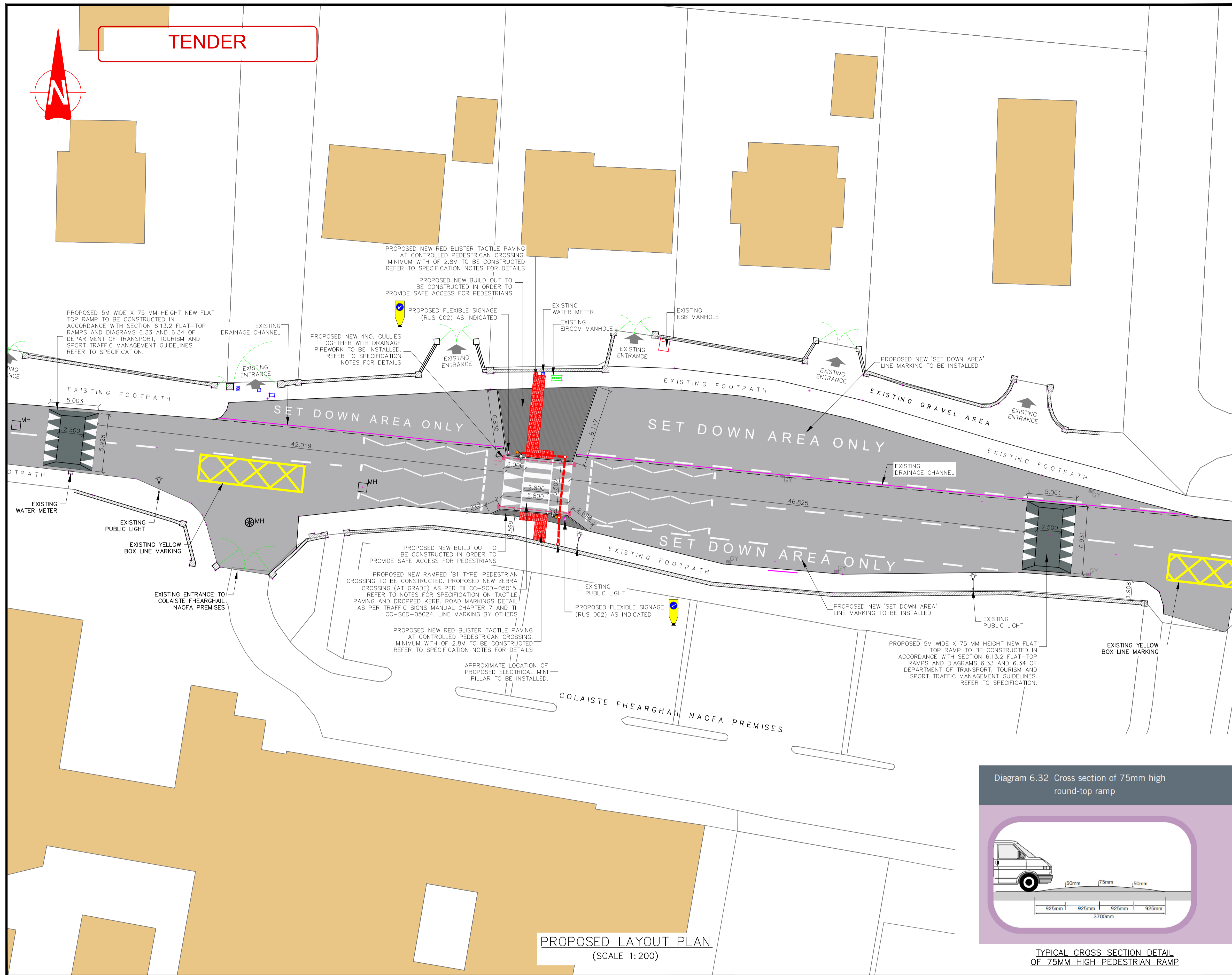
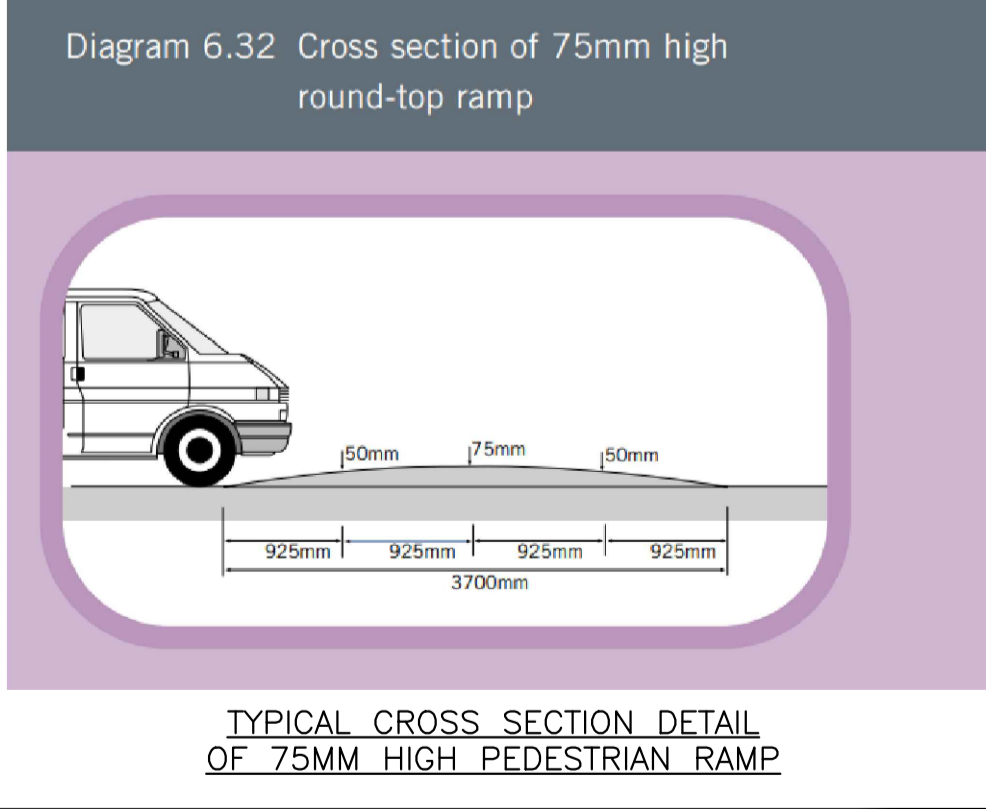


TENDER



PROPOSED LAYOUT PLAN
(SCALE 1:200)



TYPICAL CROSS SECTION DETAIL OF 75MM HIGH PEDESTRIAN RAMP

- NOTES/ SPECIFICATION :-
- THE CONTRACTOR SHOULD READ THIS ROAD SPECIFICATION IN CONJUNCTION WITH THE RELEVANT TYPICAL DETAILS.
 - THE VERTICAL ALIGNMENT OF THE FINISHED SURFACE SHALL NOT DEPART FROM THE DESIGN LEVEL BY MORE THAN +10mm AT ANY POINT - THE MAXIMUM DEVIATION OF THE SURFACE UNDER A STRAIGHT EDGE SHALL NOT BE GREATER THAN 5mm IN 3m. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION OF ALL EXISTING SERVICE CHAMBERS, MANHOLES AND DUCTING THROUGHOUT THE WORKS ALL CONCRETE JOINTS AND EDGES SHALL BE BULL NOSED.
 - DROPPED KERBS MUST BE LAID FLUSH WITH CARRIAGEWAY SURFACE, WITH AN ABSOLUTE MAXIMUM UPSTAND OF 6mm.
 - RAMPS AT CONTROLLED CROSSING. DESIRED GRADIENT 1:20, ABSOLUTE MAXIMUM 1:12; BULL NOSE KERBS PAINTED WHITE AND LAID FLUSH, ABSOLUTE MAXIMUM UP STAND 6MM. DETAIL IN ACCORDANCE WITH TII STANDARD CONSTRUCTION DETAIL CC-SCD-05136.
 - CONTROLLED CROSSING TACTILE PAVING: DETAIL IN ACCORDANCE WITH TII STANDARD CONSTRUCTION DETAIL CC-SCD-05136. 1. THE TACTILE DOMES ON THE TILES MUST BE LINED UP TO GIVE THE DIRECTION OF TRAVEL IN ORDER TO CROSS THE CARRIAGEWAY STRAIGHT. 2. UTILITY CABINETS/CHAMBERS MUST NOT BE LOCATED WITHIN TACTILE PAVING AREA. 3. REFER TO TACTILE PAVING GUIDANCE DOCUMENTATION. 4. MODULE TYPE B (400 x 400mm) ONLY IS SHOWN HERE AND SHALL BE USED IN MOST CASES. OTHER SIZE MODULES MAY BE USED WHERE SITE SPECIFIC CIRCUMSTANCES DICTATE. 5. TACTILE BLISTER PAVING SHALL BE BEDDED ON 25mm MOIST SAND / CEMENT MORTAR (3:1), JOINTS FILLED WITH 4:1 MIX WITHIN 2mm OF THE PAVING SURFACE..
 - ROAD GULLIES & GRATINGS (TO RCD 500/10 & RCD 500/12) SUPPLY & INSTALL PRECAST CONCRETE TRAPPED STREET GULLY WITH D400 HEAVY DUTY LOCKABLE COVER AND FRAME (EN 124) IN ROAD. ROAD GULLIES, GRATINGS AND FRAMES SHALL CONFORM TO EN 124, CLASS D400 OR EQUIVALENT. THE SPACING OF ROAD GULLIES MUST SUIT THE REQUIREMENTS OF THE SPECIFIC ROAD LAYOUT. GULLIES MUST BE HINGED AT RIGHT ANGLES TO THE KERB LINE SO THAT THEY CLOSE WITH THE DIRECTION OF TRAFFIC AND SLOTS MUST BE AT RIGHT ANGLES OR DIAGONAL TO THE KERB. FOUNDATION SLABS FOR GULLY PITS SHALL BE A MINIMUM THICKNESS OF 150MM AND BUILT-IN CLASS 20N/20MM IN-SITU CONCRETE. EACH GULLY SHALL HAVE A SEPARATE 150MM CONNECTION SURROUNDED WITH 150MM CLASS 20N/20MM CONCRETE. GULLIES SHALL NOT BE INTERCONNECTED. WHEN CONNECTING TO PUBLIC SEWERS, BENDS FROM 7' UP TO 45' SHOULD BE USED AS REQUIRED AND A SADDLE JOINTION FITTED TO MAKE THE CONNECTION TO THE SEWER. LONG RADIUS BENDS ARE PREFERRED. GULLY CONNECTIONS SHOULD NOT IF POSSIBLE EXCEED 10 METRES IN LENGTH AND CONNECT TO THE SEWER IN THE DIRECTION OF THE FLOW. IN UNSEALED GULLIES, THE OUTLET PIPE SHALL BE 450MM ABOVE THE FLOOR OF THE GULLY PIT. WHERE GULLIES ARE CONNECTED TO MANHOLES, THEY SHALL BE CONNECTED AT THE BENCHING LEVEL OR A MAXIMUM OF 500MM ABOVE INVERT OF THE MAIN PIPE. CONNECTIONS SHALL BE TURNED WITH THE DIRECTION OF FLOW UNPLASTICISED P.V.C. PIPES MUST COMPLY WITH THE "PROVISIONAL SPECIFICATION FOR SOIL PIPES, DRAINS, SEWERS AND FITTINGS MADE OF UNPLASTICISED P.V.C." ISSUED BY THE DEPARTMENT OF THE ENVIRONMENT.
 - SETTING GULLIES. ALL GULLIES IN CARRIAGEWAY TO BE SET IN MASTIC AND CHIP THE MATERIAL IS MANUFACTURED TO COMPLY WITH EN 13108:2006 - PART 6: MASTIC ASPHALT. CONSTITUENT MATERIALS: BINDER - PENETRATION GRADE BITUMEN POLYMER MODIFIED WITH SBS. AGGREGATE - CRUSHED ROCK IN ACCORDANCE WITH EN 12620:2002. COATED CHIPS WHERE REQUIRED WILL HAVE PSV OF 60 OR HIGHER. FINE AGGREGATE LIMESTONE IN ACCORDANCE WITH EN 12620:2002. 2002 PIGMENT IF REQUIRED IS BINDER COMPATIBLE AND UV STABLE.
 - NEW UPVC ELECTRICAL DUCTS IN ACCORDANCE WITH ESB NETWORKS SPECIFICATION. EXCAVATE IN FOOTPATH/ROAD AND DISPOSE OF EXCESS SPOIL OFF-SITE; DUCTS IN CARRIAGEWAY SHALL BE 750 MM DEEP AND 450MM WIDE, MINIMUM TRENCH WIDTH 850MM, SUPPLY AND LAY 1 NO. DUCTS 100 / 50MM INTERNAL DIAMETER, SMOOTH BORE, A SINGLE WALL CONSTRUCTED IN MEDIUM DENSITY POLYETHENE WITH A WALL THICKNESS OF NOT LESS THAN 5MM. DUCTS SHALL BE AS PER AREA ENGINEERS REQUIREMENTS. TRENCH DEPTH AND BACKFILL MATERIAL TO BE IN ACCORDANCE WITH TII PUBLICATION NUMBER CC-SCD-00561 (TYPE A SHALLOW DUCTS).
 - CONCRETE FOOTPATH CONSTRUCTION/RECONSTRUCTION (STANDARD DETAIL SCD-01105) SAW CUT EXISTING FOOTWAY AS MARKED ON SITE; EXCAVATE 200MM OF MATERIAL WITHIN FOOTWAY REPAIRS, 275MM WITHIN VEHICULAR ACCESS DISHINGS. PREPARE AND COMPACT SUB-GRADE MATERIAL; DISPOSAL OF MATERIALS OFF-SITE TO A LICENSED FACILITY; SUPPLY, LAY AND COMPACT GRANULAR MATERIAL TO A DEPTH OF 100MM TO CLAUSE 804 OF TII SPECIFICATION; SUPPLY, PLACE, COMPACT, BRUSH FINISH, CURE AND PROTECT CONCRETE FOOTWAY, MINIMUM CLASS C32/40 TO CLAUSE 1106, 100MM DEPTH WITH A CROSSFALL TO MATCH EXISTING. ALL CONCRETE EDGES AND JOINTS SHALL BE BULLNOZZED WITH A TROWEL. VEHICULAR ACCESS DISHINGS, AS DESCRIBED BELOW, TO BE PROVIDED AT EACH VEHICULAR ENTRANCE; CONTRACTION JOINT TO BE PROVIDED AT 3-METRE CENTRES ON FOOTWAY IN ACCORDANCE WITH CLAUSE 1106 OF THE SPECIFICATION; SUPPLY, PLACE, COMPACT, BRUSH FINISH, CURE AND PROTECT CONCRETE AT VEHICULAR ACCESS POINTS, MINIMUM CLASS C32/40, 175MM DEPTH WITH A CROSSFALL TO MATCH EXISTING. ALL CONCRETE EDGES AND POINTS SHALL BE BULLNOZZED WITH A TROWEL. AT VEHICULAR ACCESS POINTS CONCRETE SHALL BE REINFORCED WITH A393 MESH REINFORCEMENT TOP AND BOTTOM; TIE IN TO OR RESET EXISTING OR NEW IRONWORK AND WATER BOUNDARY BOXES AS REQUIRED. (IRON WORKS TO BE SURVEYED AND RECORDED); ALL EXISTING SERVICES LOCATED WITHIN THE EXCAVATIONS SHALL HAVE THE RELEVANT IDENTIFICATION WARNING TAPE/MARKERS PLACED OVER PRIOR TO PLACING THE SUB-BASE LAYER. NEW CONCRETE KERBING SAW CUT EXISTING ROADWAY OFFSET FROM NEW KERB LINE BY 200MM. EXCAVATE EXISTING KERB LINE OR ALONG NEW LINE FOR PROPOSED KERB LINE. COUNTY COUNCIL REQUEST FOR TENDER, DISPOSAL OF MATERIALS OFF SITE. SUPPLY AND INSTALL PRECAST CONCRETE KERBS IN ACCORDANCE WITH CLAUSE 1101 OF THE NRA SPECIFICATION FOR ROADWORKS AND RCD 1100/1 TYPE A. ALTERNATIVE TO SUPPLY AND INSTALL IN SITU CONCRETE KERB IN ACCORDANCE WITH CLAUSE 1103 OF THE NRA SPECIFICATION FOR ROADWORKS AND RCD 1100/2. INSTALL DROPPED KERBING AT VEHICULAR ACCESS DISHINGS 25MM OVER CARRIAGEWAY AND PEDESTRIAN DISHINGS 6MM OVER THE CARRIAGEWAY. REINSTATE ROAD EDGE ALONG NEW KERB LINE WITH 100MM DEPTH OF CL 942 OR 912 OR SIMILAR APPROVED. HOT BITUMEN JOINT SEALER TO BE APPLIED TO ALL VERTICAL CUTS AND TOP OF JOINTS.
 - NEW ROAD REINSTATEMENT: EXISTING ROAD SURFACE TO BE PLANNED TO ALLOW FOR 40MM THK LAYER OF SMA (STONE MASTIC ASPHALT) SURFACE COURSE. REINSTATEMENT AS PER RMO PURPLE BOOK GUIDELINES.
 - NEW ROAD BUILD UP PERMANENT BUILDING UP: SUPPLY AND LAY 40MM OF SMA (STONE MASTIC ASPHALT) SURFACE COURSE ON BINDER LAYER OF 60MM OF AC (ASPHALT CONCRETE) 20 DENSE BIN 70/100 REC TO CLAUSE 905 ON 150MM COMPACTED CLAUSE 804 SUB-BASE AS PER TII DMRB SPECIFICATION ON 450 MM LAYER OF 4" DOWN CAPPING LAYER. CAPPING SHALL BE CONSTRUCTED WITH CLASS 6F1 OR 6F2 MATERIAL.
 - JOINTS BETWEEN NEW ROAD CONSTRUCTION AND EXISTING ROADS SHALL BE AS PER THE DETAILS IN TII-CC-SCD-00703. THE EDGES OF THE EXISTING CARRIAGEWAY TO BE CUT BACK BY 0.5m WITH A ROTARY SAW TO FORM A VERTICAL FACE AND REINSTATEMENT IN ACCORDANCE WITH TII-CC-SCD-00703 INCLUDE FOR ALL ADDITIONAL EXCAVATION AND FILLING TO ACHIEVE REQUIRED DEPTH OF SUB-BASE WHERE NEW AND EXISTING WORKS MEET.
 - NEW SURFACE WATER DRAINAGE: EXCAVATE FOR DRAINAGE CONNECTION IN FOOTPATH/ROAD AND DISPOSE OF EXCESS SPOIL OFF-SITE TO A LICENSED FACILITY, AVERAGE DEPTH 1.0M, MINIMUM TRENCH WIDTH 850MM; DISPOSAL OF MATERIALS OFF-SITE TO A LICENSED FACILITY; SUPPLY AND LAY 225MM THIN-WALL PIPE BED AND SURROUND INCLUDING BACKFILL. 2.0M MAX DEPTH TO INVERT AS PER CC/SCD/00521 TYPE S; PERMANENT REINSTATEMENT AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT IN PUBLIC ROADS;
 - PERMANENT TRENCH REINSTATE: 40MM OF SMA (STONE MASTIC ASPHALT) SURFACE COURSE ON SUPPLY BINDER LAYER OF 60 MM OF AC (ASPHALT CONCRETE) 20 DENSE BIN 70/100 REC TO CLAUSE 906 ON BASE LAYER OF 80 MM OF AC (ASPHALT CONCRETE) ON AC 32 DENSE BASE 70/100 ON 150 MM COMPACTED CLAUSE 804 SUB-BASE AS PER TII DMRB SPECIFICATION. REINSTATEMENT AS PER RMO PURPLE BOOK GUIDELINES.
 - NEW UPVC DUCTS: EXCAVATE IN FOOTPATH/ROAD AND DISPOSE OF EXCESS SPOIL OFF-SITE; DUCTS IN CARRIAGEWAY SHALL BE 750 MM DEEP AND 450MM IN VERGE/FOOTING DUCTING, MINIMUM TRENCH WIDTH 850MM; DISPOSAL OF MATERIALS OFF-SITE; SUPPLY AND LAY 2 NO. DUCTS 110MM INTERNAL DIAMETER, SMOOTH BORE, A SINGLE WALL CONSTRUCTED IN MEDIUM DENSITY POLYETHENE WITH A WALL THICKNESS OF NOT LESS THAN 5MM. DUCTS SHALL BE AS PER AREA ENGINEERS REQUIREMENTS; THE DUCT SURROUND MATERIAL SHALL BE UNWASHED SAND TO BS 852. FEA GRAVEL AND FOAM CONCRETE ARE UNACCEPTABLE DUCT SURROUND MATERIAL. SAND MUST BE WELL COMPACTED ALL ROUND DUCTS; SUPPLY AND INSTALL COOPER CLARKE (OR AGREED EQUIVALENT) CHAMBERS; WHEN 4-WAY CARRIAGEWAY DUCTS ARE UTILISED THEN CHAMBERS SHALL BE 600MM X 600MM TO ENSURE SUFFICIENT COVER; MANDREL ALL DUCTS: A LAOIS COUNTY COUNCIL REPRESENTATIVE SHALL WITNESS THE MANDREL TESTING FOR MANDREL. DETAIL SEE SCD-00562; SUPPLY AND INSTALL ROPES IN ALL DUCTS AFTER DUCTING WORKS HAVE BEEN COMPLETED; CHAMBERS SHALL BE LOCATED AT ALL CHANGES IN DEPTH/DIRECTION AND AT NOT MORE THAN 40M CENTRES ON LONG RUNS; PERMANENT REINSTATEMENT AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS; TRENCH DEPTH AND BACKFILL MATERIAL TO BE IN ACCORDANCE WITH TII PUBLICATION NUMBER CC-SCD-00561 (TYPE A SHALLOW DUCTS).

LEGEND:

- PROPOSED NEW CONCRETE FOOTPATH (approx. 36.5 sq.m - HIGHLIGHTED THUS)
- PROPOSED NEW RED BLISTER TACTILE PAVING (HIGHLIGHTED THUS)
- PROPOSED NEW 50mm DIA DUCT TO BE LAID IN NEW TRENCH. SEE SPECIFICATION (HIGHLIGHTED THUS)
- PROPOSED NEW D400 GULLY WITH 225MM THINWALL PIPE. SEE SPECIFICATION (HIGHLIGHTED THUS)

Revision	Date	Description
0	20/04/22	Proposed Layout Plan

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Revision	Date	Description
0	20/04/22	Proposed Layout Plan

LAOIS COUNTY COUNCIL
COMHAIRLE CHONTAE LAOISE

Mr. Simon Walton,
Director of Services,
Roads and Water
Services.

Mr. Diarmuid Donohue,
Senior Exec. Engineer,
Roads - Active Travel.

Mr. Adrian Barrett,
Senior Engineer,
Roads.

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Project: Pedestrian Crossing at St Fergal's College at Rathdowney, Co. Laois

Title: St Fergal's College Pedestrian Crossing - Proposed Site Layout Plan

Drawn: P.Murphy. File: G:\ROADS\Active Travel\21-018 Junction Tightening, Ped Crossings\Pedestrian Crossing Schemes\Rathdowney - St Fergals S.C

Checked: D.D. Scale: AS SHOWN @A1 SHEET 1 OF 3

Approved: D.D. Date: 20/04/2022

Project No.	Drawing No.	Rev.
		0
Status.	TENDER	