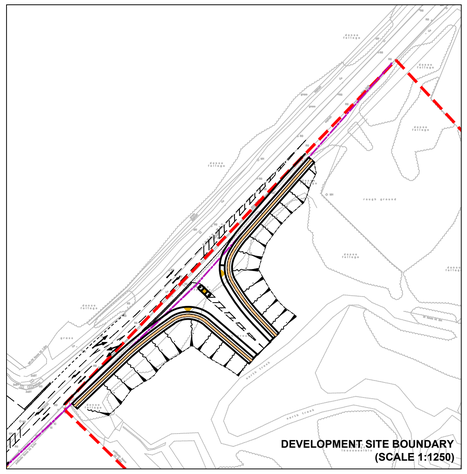
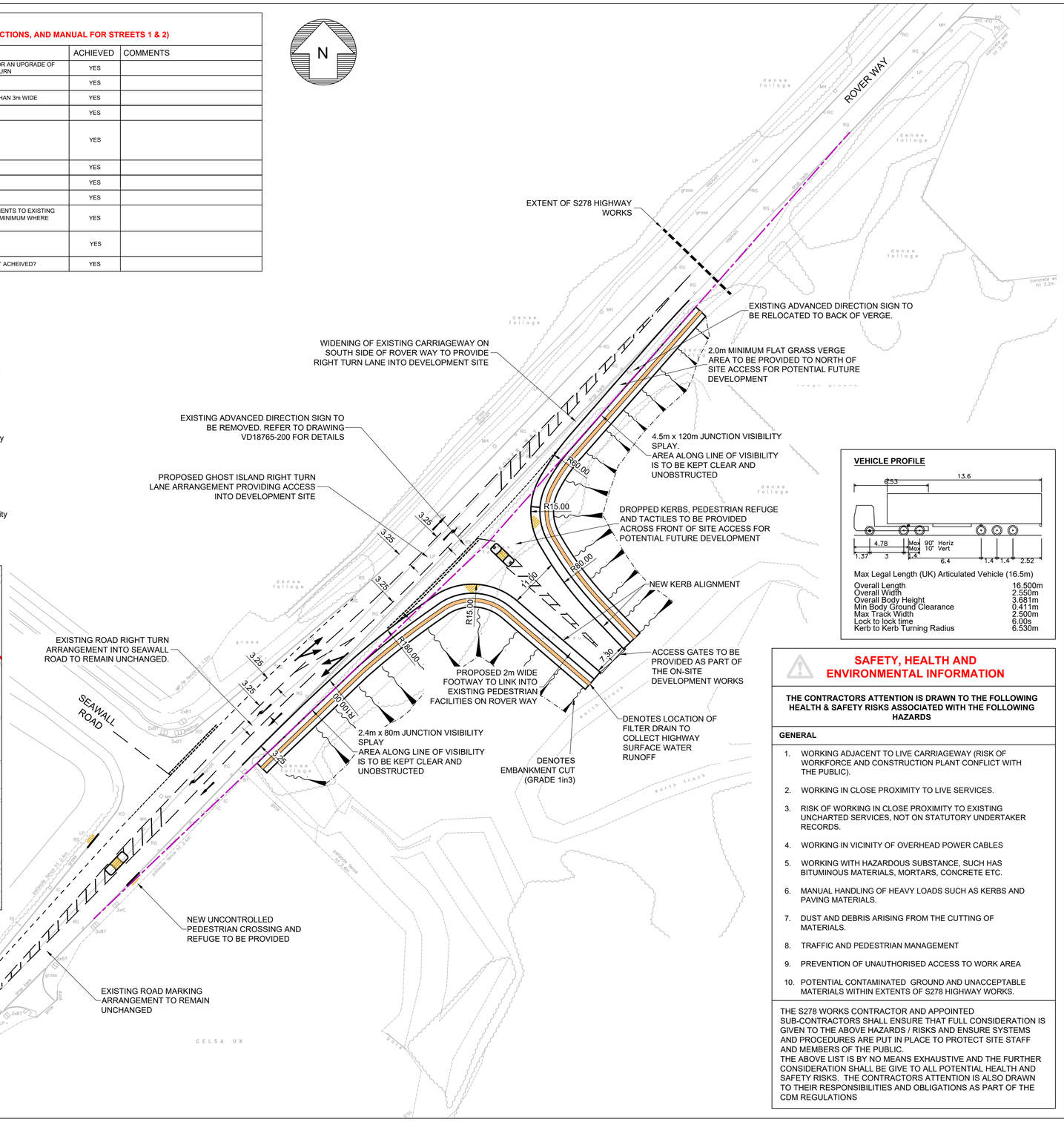
DESIGN STANDARDS
(DMRB TD 42/95 GEOMETRIC DESIGN OF MAJOR / MINOR PRIORITY JUNCTIONS, AND MANUAL FOR STREETS 1 & 2)

PARAGRAPH	DESCRIPTION	STANDARD	ACHIEVED	COMMENTS
TD 42/95 - 2.20	WHEN TO USE A GHOST ISLAND	USED ON NEW SINGLE CARRIAGEWAY ROADS OR AN UPGRADE OF AN EXISTING JUNCTION TO PROVIDE A RIGHT TURN	YES	
TD 42/95 - 7.17	CORNER RADII	MINIMUM 6m CIRCULAR CORNER RADIUS	YES	
TD 42/95 - 7.20	THROUGH LANES	NO GREATER THAN 3.65m WIDE BUT NO LESS THAN 3m WIDE	YES	
MANUAL FOR STREETS	CARRIAGEWAY ALIGNMENT	TO SUIT AUTOTRACK SWEPT PATHS	YES	
TD 42/95 - 7.30 (TABLE 7/3)	TAPERS ON APPROACH	1:20 TAPER	YES	
TD 42/95 - 7.32	TURNING LENGTH	10m	YES	
TD 42/95 - 7.34 (TABLE 7/3)	DIRECT TAPER LENGTH	15m	YES	
TD 42/95 - 7.40 (TABLE 7/5A)	DECELERATION LENGTH	40m	YES	
TD 42/95 - 7.35 AND 7.36	GHOST ISLAND WIDTHS	FOR NEW JUNCTIONS 3.5m AND FOR IMPROVEMENTS TO EXISTING JUNCTIONS PREFERABLY MIN 3.0m. ABSOLUTE MINIMUM WHERE SPACE IS VERY LIMITED 2.5m.	YES	
TD 42/95 - 7.3 to 7.10	VISIBILITY SPLAYS	MINIMUM REQUIREMENT 2.4x120m	YES	
MFS2 - SECTION 8.3	HORIZONTAL ALIGNMENT	MINIMUM HORIZONTAL CURVATURE/ALIGNMENT ACHEIVED?	YES	

GENERAL NOTES:

1. All dimensions are in metres unless noted otherwise
2. Do not scale from this drawing, work from figured dimensions only
3. All dimensions, coordinates and levels to be checked on site and the engineer notified of any discrepancies
4. No deviation from the details shown is permitted without prior approval of the Engineer.
5. This drawing is based on Approved Planning drawing 173097-SK11 Revision A.
6. The approving highway authority (HA) is Cardiff Council (CC)
7. All construction details to be in accordance with Cardiff Council's construction specification and approved construction details
8. Design speed is 40mph (70kph)
9. Visibility splays in accordance with and Design Manual for Roads and Bridges (DMRB)
10. All highway works to be to adoptable standards and shall comply fully with the Local Authority Specification and where necessary the relevant sections of the DMRB, Specification for Highway Works (SHW) and British Standards
11. All statutory consents, opening notices etc. as required under Highways and Water Industry Acts,. are to be obtained by the contractor prior to commencement of the works (unless otherwise stated). All works are to be inspected by the Local Authority, NHBC or statutory authority as applicable
12. The presence of statutory undertakers equipment in the highway should be verified by the contractor on site prior to starting any works. The location of statutory plant shown on any plans is indicative only and should not be relied upon for the location of any pipework or cabling. The contractor should confirm the location of all utility assets by hand dug trial trenches prior to commencing any works. Allowance for the presence of all appropriate utility protection/diversion measures is to be put in place by the contractor (unless stated otherwise)
13. This drawing is subject to detailed design and HA technical approvals





VEHICLE PROFILE

Max Legal Length (UK) Articulated Vehicle (16.5m)

Overall Length	16.500m
Overall Width	2.550m
Overall Body Height	3.681m
Min Body Ground Clearance	0.411m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.530m

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

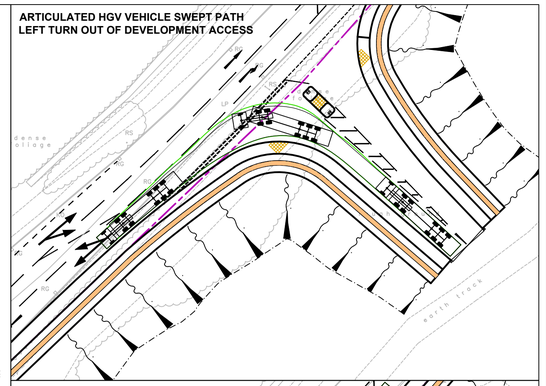
THE CONTRACTORS ATTENTION IS DRAWN TO THE FOLLOWING HEALTH & SAFETY RISKS ASSOCIATED WITH THE FOLLOWING HAZARDS

GENERAL

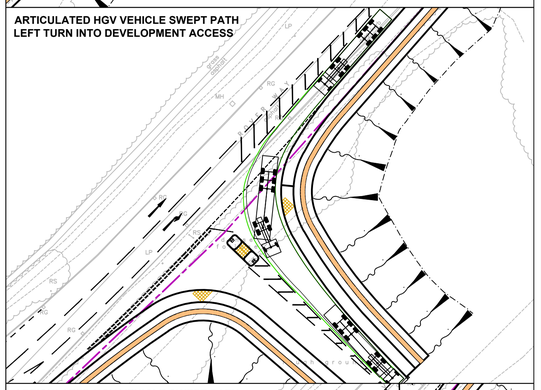
1. WORKING ADJACENT TO LIVE CARRIAGEWAY (RISK OF WORKFORCE AND CONSTRUCTION PLANT CONFLICT WITH THE PUBLIC).
2. WORKING IN CLOSE PROXIMITY TO LIVE SERVICES.
3. RISK OF WORKING IN CLOSE PROXIMITY TO EXISTING UNCHARTED SERVICES, NOT ON STATUTORY UNDERTAKER RECORDS.
4. WORKING IN VICINITY OF OVERHEAD POWER CABLES
5. WORKING WITH HAZARDOUS SUBSTANCE, SUCH HAS BITUMINOUS MATERIALS, MORTARS, CONCRETE ETC.
6. MANUAL HANDLING OF HEAVY LOADS SUCH AS KERBS AND PAVING MATERIALS.
7. DUST AND DEBRIS ARISING FROM THE CUTTING OF MATERIALS.
8. TRAFFIC AND PEDESTRIAN MANAGEMENT
9. PREVENTION OF UNAUTHORISED ACCESS TO WORK AREA
10. POTENTIAL CONTAMINATED GROUND AND UNACCEPTABLE MATERIALS WITHIN EXTENTS OF S278 HIGHWAY WORKS.

THE S278 WORKS CONTRACTOR AND APPOINTED SUB-CONTRACTORS SHALL ENSURE THAT FULL CONSIDERATION IS GIVEN TO THE ABOVE HAZARDS / RISKS AND ENSURE SYSTEMS AND PROCEDURES ARE PUT IN PLACE TO PROTECT SITE STAFF AND MEMBERS OF THE PUBLIC.
THE ABOVE LIST IS BY NO MEANS EXHAUSTIVE AND THE FURTHER CONSIDERATION SHALL BE GIVE TO ALL POTENTIAL HEALTH AND SAFETY RISKS. THE CONTRACTORS ATTENTION IS ALSO DRAWN TO THEIR RESPONSIBILITIES AND OBLIGATIONS AS PART OF THE CDM REGULATIONS

ARTICULATED HGV VEHICLE SWEPT PATH
LEFT TURN OUT OF DEVELOPMENT ACCESS



ARTICULATED HGV VEHICLE SWEPT PATH
LEFT TURN INTO DEVELOPMENT ACCESS



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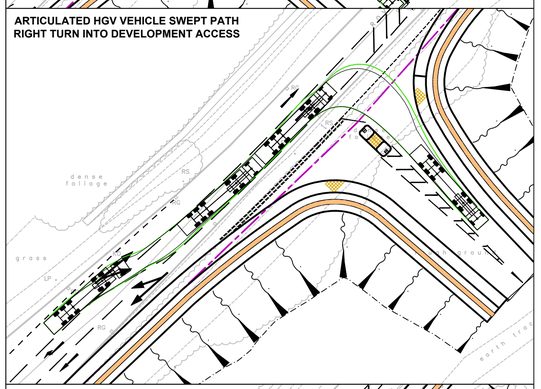

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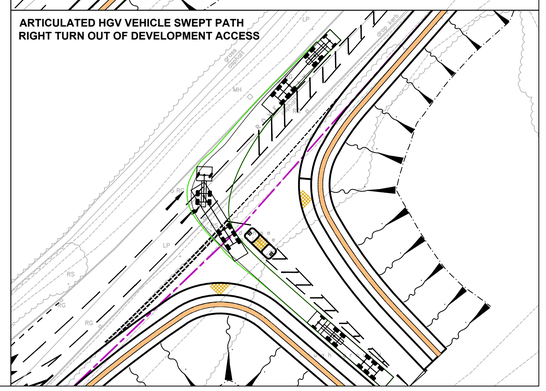

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REV.	DETAILS	DRAWN	CHECKED	DATE
A	LOCATION OF SITE ACCESS CHANGED FOLLOWING MEETING WITH CARDIFF COUNCIL	IW	MJR	21.11.18
B	MINOR AMENDMENTS	IW	MJR	08.04.19
C	CHANGES MADE IN RESPONSE TO HA COMMENTS	MD	IW	12.06.19
D	CHANGES MADE IN RESPONSE TO HA COMMENTS	IW	MJR	24.10.19
E	FILTER DRAIN ADDED AND EMBANKMENT RE-ALIGNED	IW	MJR	10.01.20

REV.	DETAILS	DRAWN	CHECKED	DATE
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Notes:
1. This is not a construction drawing and is intended for illustrative purposes only.
2. White lining is indicative only.

CONSTRUCTION ISSUE

PROJECT: Section 278 Highway Works - Rover Way, Cardiff

CLIENT: Parc Calon Gwyrdd Ltd

DRAWING TITLE: General Arrangement

vectos transport planning specialists
10th Floor, Helmont House, Churchill Way, Cardiff CF10 2HE
t: 02920 720 860 e: enquiries@vectos.co.uk

DRAWN:	CHECKED:	DATE:	SCALES:	DRAWING NUMBER:	REVISION:
IW	MJR	AUGUST 2018	1:1250, 1:500 @ A1	VD18675-100	E

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