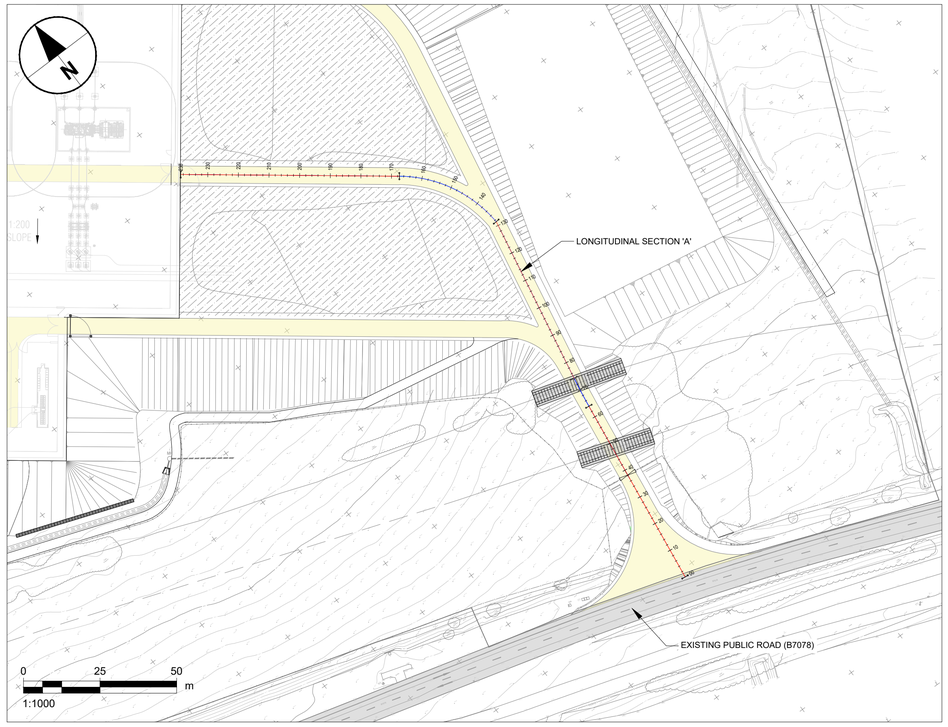
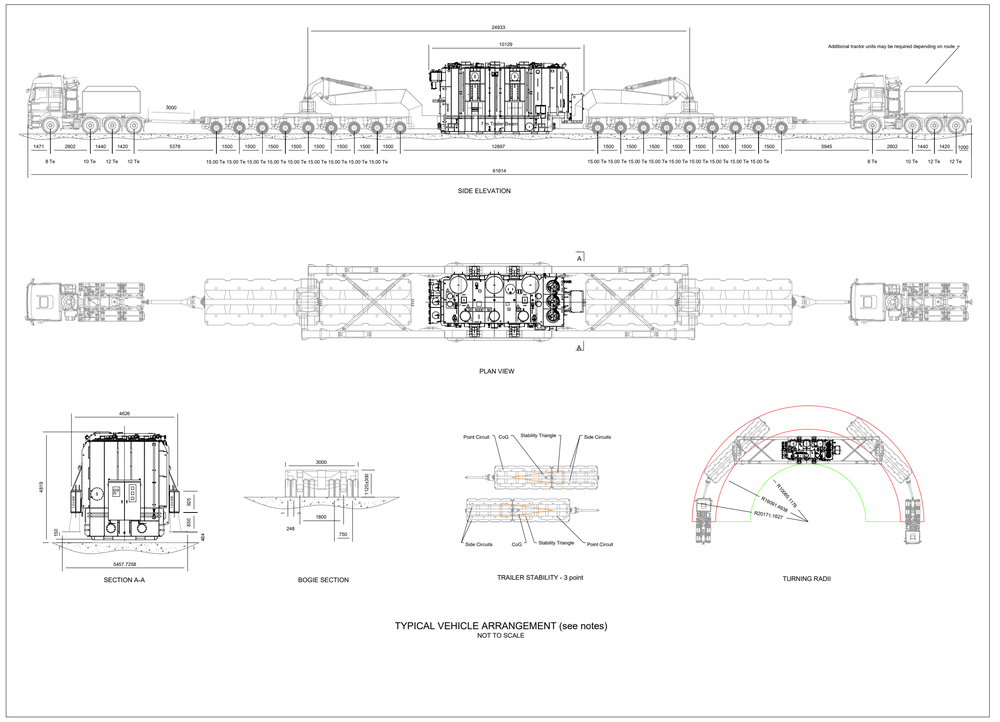
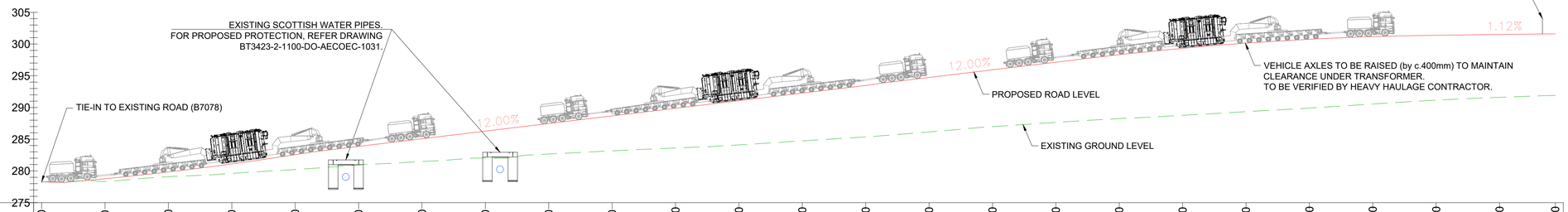




HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS TYPICALLY ASSOCIATED WITH THE WORKS SHOWN ON THESE DRAWINGS - THE FOLLOWING HAZARDS HAVE BEEN IDENTIFIED AS REQUIRING PARTICULAR CONSIDERATION

1. WORKS TO BE CARRIED OUT ADJACENT TO A HIGH VOLTAGE ENVIRONMENT. ALL WORKS TO PROCEED IN ACCORDANCE WITH 'HSG 47' (UNDERGROUND CABLES) & 'GS6' (OVERHEAD LINES) & SCOTTISH POWER ELECTRICAL & MECHANICAL SAFETY RULES HANDBOOK 0n EDITION. TREAT ALL CABLES AS LIVE UNTIL PROVEN OTHERWISE. LOCATION OF THE KNOWN EXISTING SERVICES IS SHOWN FROM EXISTING INFORMATION AND GPR SURVEY RECORDS AND IS THEREFORE INDICATIVE ONLY. CARE IS REQUIRED SINCE UNKNOWN SERVICES MAY EXIST. THE ACTUAL LOCATION OF THE SERVICES SHOULD BE CONFIRMED BY THE CONTRACTOR. PARTICULAR CARE IS REQUIRED WHILE WORKING IN THE SURROUNDING AREA TO THE EXISTING 400kV ZV OHL ROUTE.
2. PARTICULAR CARE IS REQUIRED WHEN WORKING AROUND THE 2 No EXISTING SCOTTISH WATER PIPES RUNNING WITHIN THE FIELD PARALLEL TO B7078. CONTRACTOR TO FOLLOW AND ADHERE TO APPROPRIATE SCOTTISH WATER DOMS PROCEDURES IN PLACE FOR THE SCHEME AT ALL TIMES. LOCATION OF SW ASSETS IS SHOWN BASED ON EXISTING INFORMATION AND GPR SURVEY RECORDS AND IS THEREFORE INDICATIVE ONLY. THE ACTUAL LOCATION OF THE PIPES SHOULD BE CONFIRMED BY THE CONTRACTOR AS PER SCOTTISH WATER REQUIREMENTS (i.e. USE OF SW APPROVED CONTRACTOR). EXCAVATIONS SHOULD BE ADEQUATELY SUPPORTED AND PROTECTED DURING CONSTRUCTION. EXCAVATION MAY BE REQUIRED BENEATH GROUND WATER LEVEL, THE CONTRACTOR SHOULD DEVELOP APPROPRIATE MITIGATION SUCH AS SUMP AND PUMP AS WHEN REQUIRED.
3. EXCAVATIONS SHOULD BE ADEQUATELY SUPPORTED AND PROTECTED DURING CONSTRUCTION. EXCAVATION MAY BE REQUIRED BENEATH GROUND WATER LEVEL, THE CONTRACTOR SHOULD DEVELOP APPROPRIATE MITIGATION SUCH AS SUMP AND PUMP AS WHEN REQUIRED.
4. STEEP GROUND - CARE TO BE TAKEN WHEN MOVING AND OPERATING MACHINERY. ALL VEHICLES AND MACHINERY TO BE APPROPRIATE FOR THE CONDITIONS.
5. SURFACE WATER SHOULD BE MANAGED AT THE SITE DURING THE EXCAVATION PROCESS EITHER WITH THE INSTALLATION OF THE PERMANENT OR TEMPORARY DRAINAGE SYSTEM TO HELP PREVENT SLIPPAGE IN THE SLOPE AND TO MAXIMISE THE MATERIAL FOR REUSE.
6. CARE SHOULD BE TAKEN TO PREVENT ANY CONTAMINATION OR SILT RUN-OFF FROM ENTERING ANY ADJACENT WATERCOURSES OR DRAINAGE SYSTEMS. 10 m BUFFER SHALL BE LEFT TO EXISTING WATERCOURSES AT ALL TIMES.
7. CARE SHOULD BE TAKEN WHEN WORKING ADJACENT TO EXISTING EQUIPMENT/ STRUCTURES TO PREVENT ANY DE-STABILISATION OF FOUNDATIONS/STRUCTURES BY CONSTRUCTION, EXCAVATION OR EQUIPMENT MOVEMENT
8. LOCATIONS FOR STORAGE OF EXCAVATED MATERIAL TO BE REVIEWED BY CONTRACTOR FOR SLOPE STABILITY AND AGREED WITH THE SPEN CONSTRUCTION MANAGER.



CHAINAGE	00.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	238.790
EXISTING LEVELS	278.268	278.342	279.086	279.606	280.223	280.950	281.471	282.035	282.657	283.160	283.613	284.105	284.738	285.360	286.142	286.983	287.648	288.238	288.768	289.334	289.909	290.543	291.153	291.607	291.902
PROPOSED LEVELS	278.268	278.770	279.834	281.098	282.562	283.869	285.069	286.269	287.469	288.669	289.869	291.069	292.269	293.469	294.742	295.942	297.142	298.317	299.322	300.141	300.747	301.164	301.389	301.504	301.603
HORIZONTAL ALIGNMENT	L=63.949							R=200.00		L=57.051				R=41.87				L=71.356							
VERTICAL ALIGNMENT	G=-2.50% 1:40.0	L=39.366 K=5.00				G=12.00% 1:8.3												L=55.05 K=5.06				G=1.12% 1:89.2			

LONGITUDINAL SECTION 'A'
SCALE: H 1:400,V 1:400

0 10 20 m
1:400

REFERENCE DRAWINGS:

FOR SWEPT PATH PLAN, REFER DRAWING BT3423-2-1100-DO-AECOEC-1027.
FOR SUBSTATION LAYOUT, REFER DRAWING BT3423-2-1100-DO-AECOEC-1010.
FOR SUBSTATION ACCESS ROAD, REFER DRAWING BT3423-2-1100-DO-AECOEC-1020.

KEY:

EXISTING PUBLIC ROAD
PROPOSED SUBSTATION ACCESS ROAD

NOTES:

1. THIS DRAWING IS BASED ON AN ASSUMED VEHICLE ARRANGEMENT PROVIDED BY SPEN. FINAL VEHICLE SIZE/ARRANGEMENT TO BE DETERMINED BY HEAVY HAULAGE CONTRACTOR, BASED ON SPECIFIC TRANSFORMER SIZE.
2. VEHICLE MANOEUVRES SHOWN ARE INDICATIVE ONLY, AND REQUIRE TO BE VERIFIED BY HEAVY HAULAGE CONTRACTOR, TO ENSURE THAT THE DESIRED MANOEUVRES ARE ACHIEVABLE.
3. ASSESSMENT OF ROUTE FROM PORT OF ENTRY TO SITE TO BE UNDERTAKEN BY OTHERS.
4. SUBSTATION ELECTRICAL LAYOUT BASED ON SPEN DRAWNG BT3423-2-00JA-DA-SPTEK-1111 Rev.0M, December 2024.
5. TOPOGRAPHIC SURVEY CARRIED OUT BY L&M SURVEYS, January 2024.

Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes.
0C	28.02.25	JM	EP	RQ	TENDER DESIGN REISSUE
0B	21.02.25	JM	EP	RQ	TENDER DESIGN REISSUE
0A	19.12.24	DWT	EP	RQ	TENDER DESIGN ISSUE

SP ENERGY NETWORKS

AECOM

Status Stamp: FOR INFORMATION
NOEMI LOPEZ SOLANO 2025.03.10 10:35:53 +01'00'

Project: REDSHAW 400/132kV SUBSTATION ENABLING WORKS

Location: REDSHAW

Drg. Title: TRANSFORMER DELIVERY - VEHICLE SWEPT PATH - LONGITUDINAL SECTION

Drawn	Rev'd	App'd
DWT	EP	RQ

Drg. No.: BT3423-2-1100-DO-AECOEC-1028
Sheet:
Next:
Rev: 0C
SPEN Ref. No.: ####
Scale: AS SHOWN
Size: A1

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