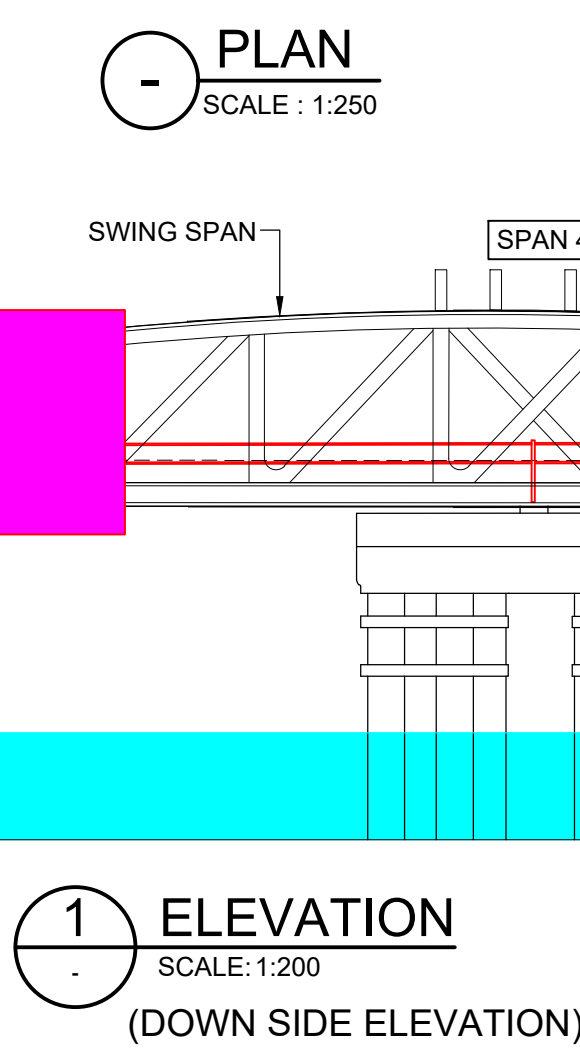
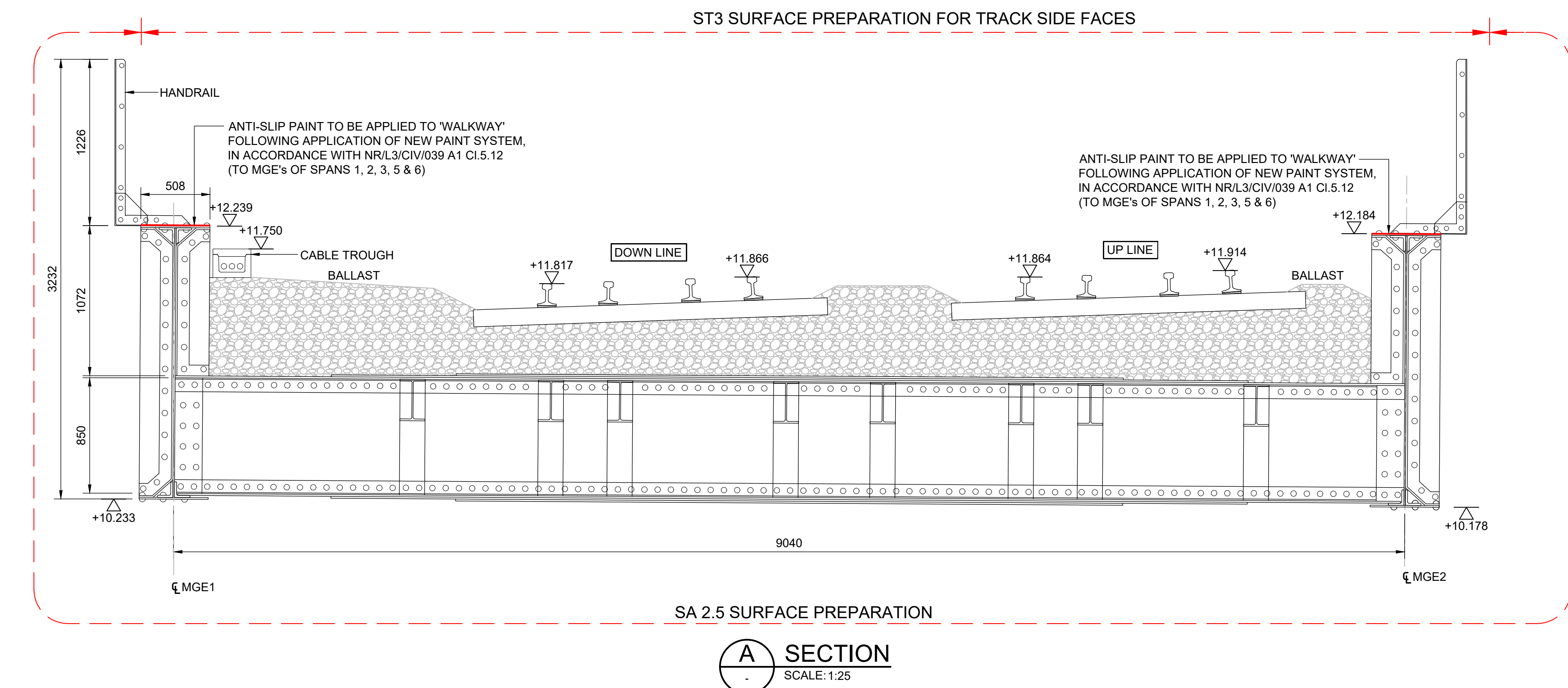
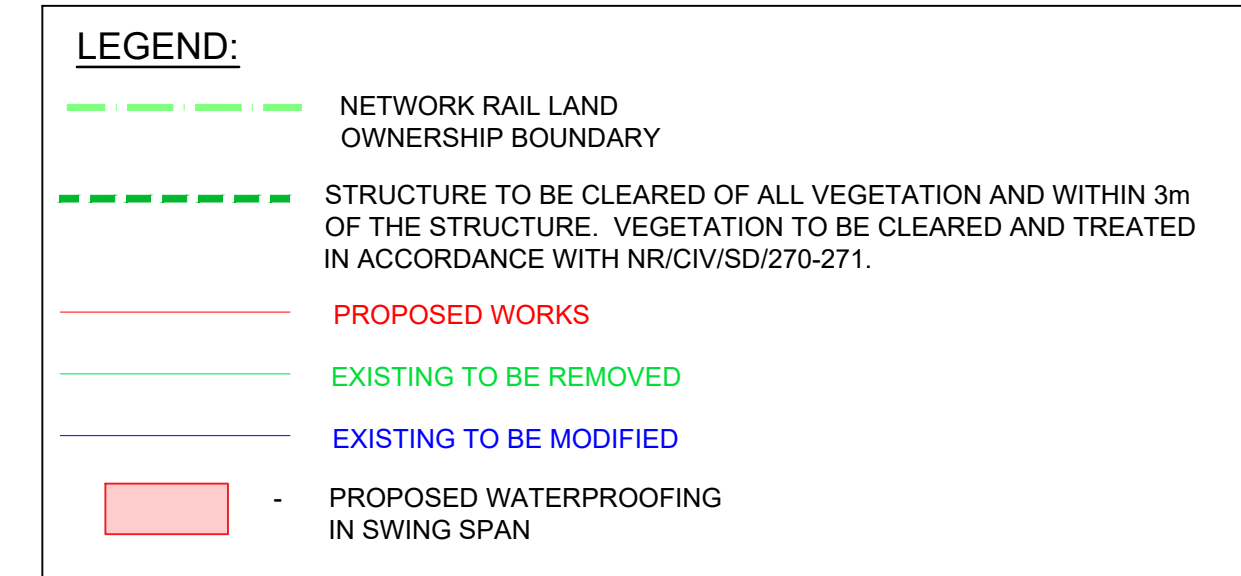
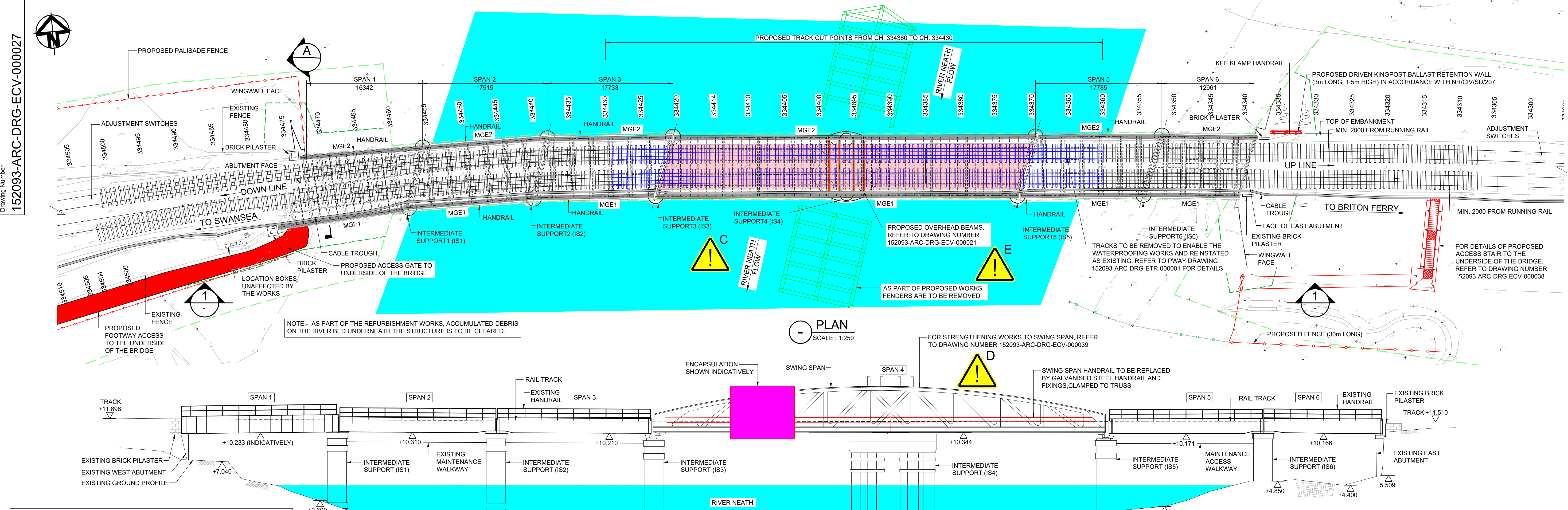




ENVISAGED CONSTRUCTION SEQUENCE

- SITE SET-UP AND PRELIMINARY WORKS, UTILISING RULES OF THE ROUTE POSSESSIONS AS NECESSARY:
 - SITE SET UP INCLUDING COMPOUND AND REMOVING ANY FENCING REQUIRED FOR THE WORKS;
 - ESTABLISH ACCESS TO THE BRIDGE;
 - UNDERTAKE VEGETATION CLEARANCE WORKS;
 - DIVERT/PROTECT ANY SERVICES AND S&T INTO SPLIT DUCTS;
 - UNDERTAKE VALIDATION SURVEY OF TRACKS;
 - UNDERTAKE TRACK MONITORING;
 - DELIVERY OF JACK-UP BARGE AND SCAFFOLDING;
 - REMOVE DEFECTIVE TIMBER FENDERS;
 - INSTALL SCAFFOLDING/ENCAPSULATION TO SPANS 1, 2, 3, 4, 5 AND 6;
- REFURBISHMENT WORKS TO SPAN 4 (OUTSIDE POSSESSIONS OR UTILISING RULES OF THE ROUTE POSSESSIONS AS NECESSARY):
 - THE ENCAPSULATION AND REPAIR WORKS TO THIS SPAN IS ENVISAGED TO BE UNDERTAKEN ONLY LOCALLY AND SEQUENTIALLY ACROSS THE SPAN DUE TO THE EXISTING ASSESSED CAPACITY OF THE BRIDGE.
 - REMOVE EXISTING HANDRAILS;
 - GRIT BLAST ALL STEELWORK;
 - UNDERTAKE STEELWORK REPAIRS AND STRENGTHENING;
 - JACK BRIDGE AND UNDERTAKE BEARING REPAIRS;
 - APPLY PROTECTIVE PAINT SYSTEM TO ALL STEELWORK FACES;
 - APPLY WATERPROOFING AND INSTALL SPIGOTS TO BOTTOM CHORDS;
 - INSTALL NEW HANDRAILS;
 - MECHANICALLY PREPARE ALL CAISSONS UP TO AND INCLUDING 1M ABOVE HIGH WATER LEVEL;
 - GRIT BLAST ALL CAISSONS ABOVE THE MECHANICALLY PREPARED AREA;
 - APPLY QUICK-DRYING PROTECTIVE SYSTEM TO ALL CAISSONS;
 - UNDERTAKE REPAIRS TO BRACING AND CAISSONS;
 - UNDERTAKE VEGETATION CLEARANCE AND MASONRY REPAIRS TO ABUTMENTS;
- REFURBISHMENT WORKS TO SUBSTRUCTURE
 - MECHANICALLY PREPARE ALL CAISSONS UP TO AND INCLUDING 1M ABOVE HIGH WATER LEVEL;
 - GRIT BLAST ALL CAISSONS ABOVE THE MECHANICALLY PREPARED AREA;
 - APPLY QUICK-DRYING PROTECTIVE SYSTEM TO ALL CAISSONS;
 - UNDERTAKE REPAIRS TO BRACING AND CAISSONS;
 - UNDERTAKE VEGETATION CLEARANCE AND MASONRY REPAIRS TO ABUTMENTS;
- REFURBISHMENT WORKS TO SPANS 1, 2, 3, 5 AND 6 (OUTSIDE POSSESSIONS OR UTILISING RULES OF THE ROUTE POSSESSIONS AS NECESSARY):
 - GRIT BLAST STEELWORK TO UNDERSIDE AND OUTSIDE FACES;
 - UNDERTAKE STEELWORK REPAIRS;
 - APPLY PROTECTIVE PAINT SYSTEM TO UNDERSIDE AND OUTSIDE STEELWORK FACES;
 - MECHANICALLY PREPARE TRACKSIDE FACES OF STEELWORK AND APPLY PAINT SYSTEM (WITHIN ROR POSSESSIONS);
 - LOCALLY EXCAVATE BALLAST ADJACENT TO BALLAST PLATES, CUT BACK DAMAGED WATERPROOFING AND APPLY PAINT SYSTEM (WITHIN ROR POSSESSIONS);
 - COMMENCE TRACK MONITORING AND CRT MANAGEMENT;
- TRACKSIDE WORKS WITHIN AN ABNORMAL POSSESSION:
 - REMOVE TRACK, SLEEPERS AND EXCAVATE BALLAST ON SPAN 4;
 - REMOVE EXISTING WATERPROOFING AND PREPARE THE DECK;
 - MECHANICALLY PREP STEELWORK AND APPLY PAINT SYSTEM TO BALLAST PLATES (SPAN 4);
 - INSTALL WATERPROOFING AND SPIGOTS;
 - RE-ESTABLISH TRACK FORMATION;
 - INSTALL RAILS AND SLEEPERS;
 - UNDERTAKE TAMPING OPERATIONS;
 - REMOVE EXISTING OVERHEAD BRACING TO SPAN 4;
 - INSTALL NEW OVERHEAD BRACING TO SPAN 4;
 - COMMENCE TRACK MONITORING AND CRT MANAGEMENT;
- FINISHING WORKS AND DEMOBILISE (UTILISING RULES OF THE ROUTE POSSESSIONS AS NECESSARY):
 - REMOVE TRACK MONITORING AND CRT MANAGEMENT;
 - INSTALL ACCESS STEPS TO EAST SIDE FOR FUTURE MAINTENANCE;
 - INSTALL GUTTERS AND DOWNPIPES;
 - TOUCH-UP PAINT WORK;
 - INSTALL NEW TROUGHING TO SPAN 4 AND DIVERT CABLES BACK INTO TROUGHING;
 - REMOVE ALL SCAFFOLDING;
 - CLEAR THE SITE COMPOUND AND REINSTATE FENCING AS NECESSARY;
 - DEMOBILISE;



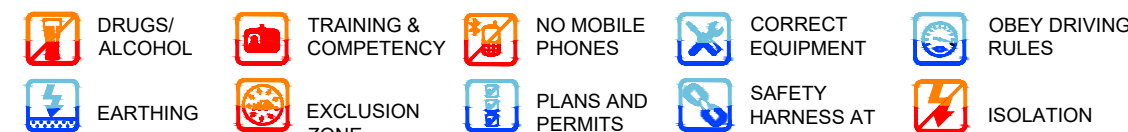
HAZARD SUMMARY TABLE

SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS	LIFE SAVING RULES
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARD IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK

SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM



A	WORKING ON / ADJACENT TO LIVE RAILWAY
B	DAMAGING TRACK SIDE INFRASTRUCTURE
C	WORKING OVER A WATERCOURSE
D	PRESENCE OF LEAD WITHIN EXISTING PAINTWORK
E	TEMPORARY INSTABILITY OF STRUCTURE DURING THE WORKS
F	TEMPORARY WORKS NEED TO CONSIDER GAUGING
G	HANDLING HEAVY / LONG PLATES (MANUAL HANDLING LIMITATIONS)
H	FAILURE OF TEMPORARY WORKS
I	RISK OF STRIKING EXISTING SERVICES
J	DAMAGE TO THE EXISTING STRUCTURE DURING RIVET REMOVAL OPERATIONS
K	INJURY DUE TO LIMITED / CONSTRAINED ACCESS FOR BOLTING OPERATIONS

FOR MORE DETAILED INFORMATION PLEASE REFER TO THE PROJECT HAZARD RECORD LOG. DOCUMENT REF.: 152093-ARC-LOG-SSD-000001

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
- DO NOT SCALE OFF THIS DRAWING. USE FIGURED DIMENSION ONLY.
- THIS DRAWING HAS BEEN PREPARED BASED ON TOPOGRAPHICAL SURVEY UNDERTAKEN BY FBH SURVEYS IN JANUARY 2020 ON BEHALF OF ARCADIS CONSULTING (UK) LTD.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:-
 - GENERAL NOTES - 152093-ARC-DRG-ECV-000023.
 - REPAIRS TO SPANS 1, 2, 3, 5 & 6 - 152093-ARC-DRG-ECV-000031 TO 37.
 - REPAIRS AND STRENGTHENING TO SPAN 4 - 152093-ARC-DRG-ECV-000022.
 - 152093-ARC-DRG-ECV-000023.
 - 152093-ARC-DRG-ECV-000026.
 - 152093-ARC-DRG-ECV-000028 TO 30.
 - 152093-ARC-DRG-ECV-000039 & 40.
- TEMPLATING - WHERE DIMENSIONS OF RIVETS ARE TO BE RECORDED FOR TEMPLATING, IT IS REFERRED THAT DIMENSIONS ARE TAKEN TO EACH RIVET FROM ONE FIXED POINT RATHER THAN RECORDING THE INDIVIDUAL SPACING BETWEEN RIVETS SO THAT ACCUMULATIVE ERRORS IN MEASUREMENT ARE AVOIDED.
- TEMPORARY AND PERMANENT WORKS TO BE CLEAR OF THE VEHICLE (LSIG) ENVELOPE.
- SIGNAL SIGHTING NOT AFFECTED BY THE PERMANENT WORKS.
- GRIP6-8 CONTRACTOR TO CONSIDER SIGNAL SIGHTING AND GAUGING DURING THE DEVELOPMENT OF THE SCAFFOLDING PROPOSALS.
- THE BRIDGE IS LOCATED ABOVE A MAJOR TIDAL RIVER. GRIP 5-8 CONTRACTOR TO CONSIDER WORKING METHODS AND PREVENT CONTAMINATION.
- FOR THE PROPOSED PERMANENT WAY ALIGNMENT AND PROFILE, REFER TO LATEST P-WAY DRAWING NO. 152093-ARC-DRG-ETR-000001.
- ALL COORDINATES ARE GIVEN TO OSGB36 GRID AND ARE STATED IN METRES UNLESS NOTED OTHERWISE.

0 0.5 1 1.5 2 2.5m

1 : 25

0 5 10 15 20 25m

1 : 250

A01	24.04.2020	FOR FORM 001 REVIEW	K.S	B.K	J.L
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					Suitability

FOR FORM 001 REVIEW

S3



Contractor(s):



Project:

RIVER NEATH SWING
BRIDGE GRIP 4

Drawing Title:

BRIDGE
PROPOSED
GENERAL ARRANGEMENT

Designed	S. ALURU	Signed	S.A	Date	24.04.2020
Drawn	K. SRILEKHA	Signed	K.S	Date	24.04.2020
Checked	B. KING	Signed	B.K	Date	24.04.2020
Approved	J. LYNN	Signed	J.L	Date	24.04.2020

Scale(s) ELR & Mileage

AS SHOWN @ A1 SD1 207m 63ch

Alternative Reference 152093

Drawing Number 152093-ARC-DRG-ECV-000027

Sheet Size A1+ 594 x 1051