

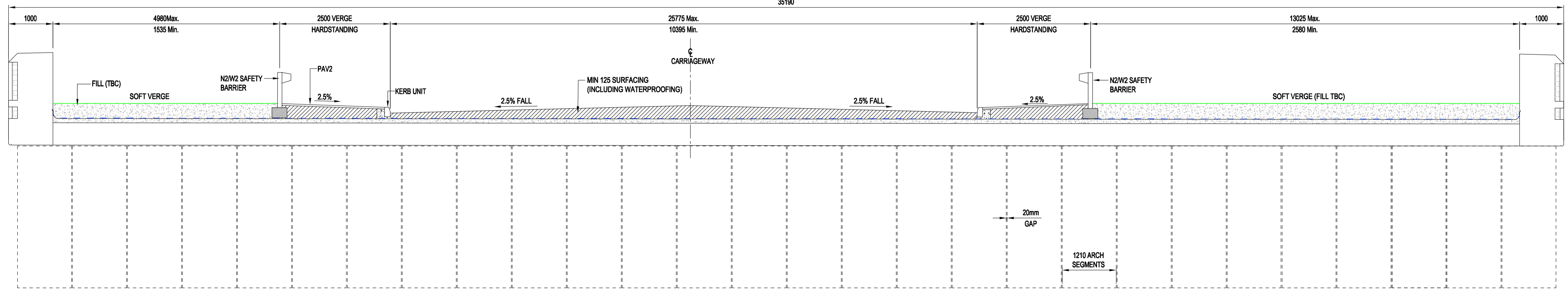
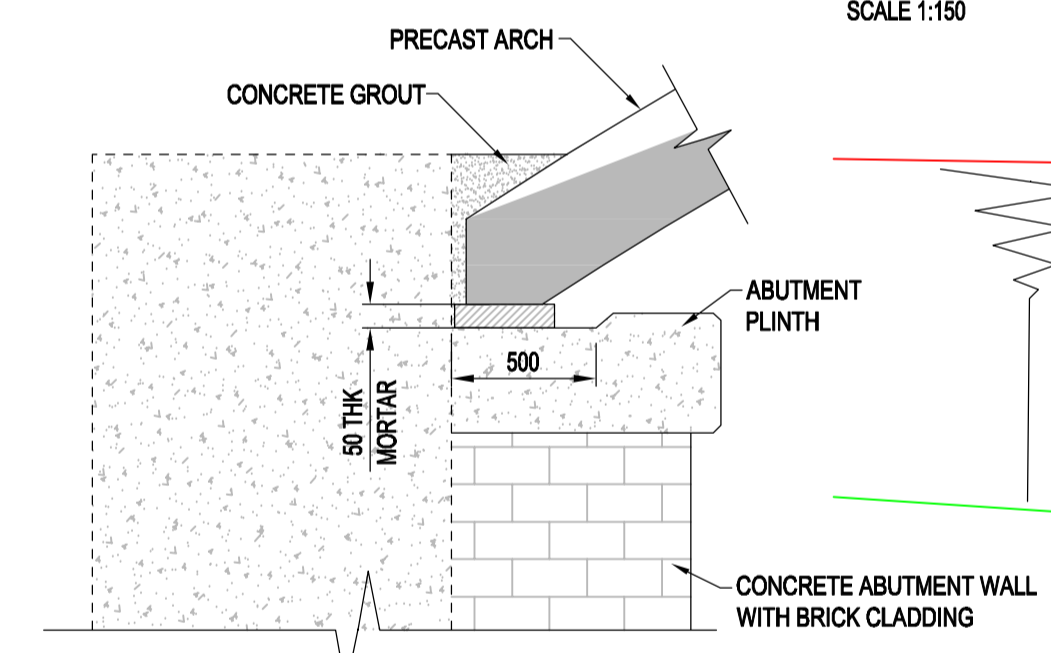
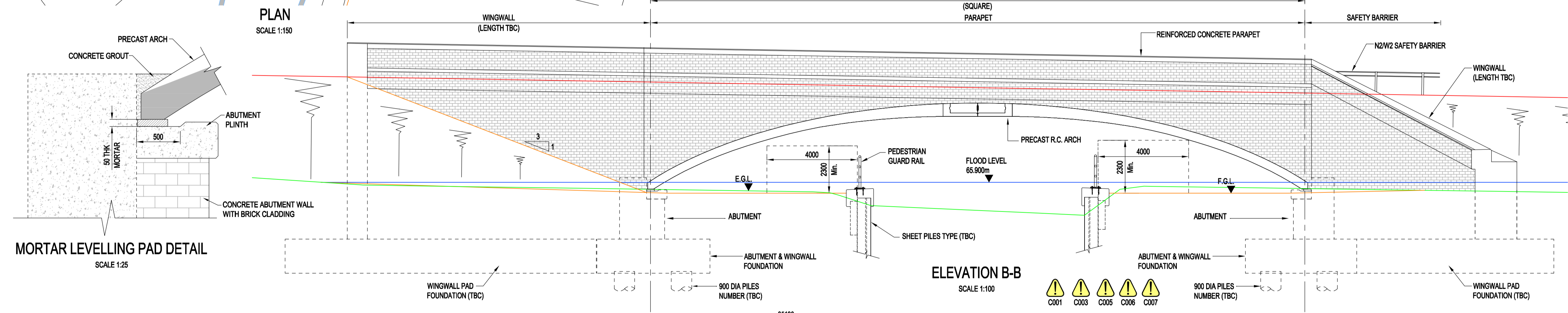
STEP W1: SEAL JOINT BY PLACING SECTIONS OF PREFORMED MASTIC OR BACKER ROD*
STEP W2: COVER SEALANT WITH POLYSULPHIDE SEALANT (CREATE EVEN SURFACE)
STEP W3: APPLY PRIMER AS PER MANUFACTURER'S RECOMMENDATIONS.
STEP W4: PLACE 300mm WIDE WATERPROOFING STRIP (e.g. PROOFLEX 3000) OVER EXTERIOR FACE OF JOINTS EXTENDING FULL LENGTH OF JOINT AS PER MANUFACTURER'S RECOMMENDATIONS.

BACKER ROD (EXAMPLE):
 FOSROC EXPANDAFOAM, MEDIUM DENSITY, CLOSED CELL POLYETHYLENE BACKING ROD 20mm Ø, WHICH COVERS JOINT WIDTHS OF 14mm TO 17mm OR SIMILAR APPROVED.

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - ALL LEVELS ARE IN METRES UNLESS STATED OTHERWISE.
 - DO NOT SCALE IN CASE OF ANY DOUBTS, OMISSIONS OR ERRORS SEEK CLARIFICATION FROM THE DESIGNER.
 - DETAILS PROVIDED ON THIS DRAWING ARE INDICATIVE AND SUBJECT TO DETAILED DESIGN.
 - THE FOLLOWING IS REQUIRED TO PROGRESS THE DETAILED DESIGN OF THE PREFERRED OPTION:
 - TOPOGRAPHICAL SURVEY OF THE BRIDGE LOCATION AND SURROUNDINGS - VERIFY LEVELS AND GEOMETRY ASSOCIATED WITH THE NEW BRIDGE OPTION.
 - SITE INVESTIGATION - VERIFY ASSUMPTIONS/IDENTIFY RISKS ASSOCIATED WITH THE BRIDGE FOUNDATIONS.
 - STAKEHOLDER LIAISON/CONSULTATION - CONFIRM CONSTRAINTS ASSOCIATED WITH THE DESIGN OF THE NEW BRIDGE, AS A MINIMUM THIS SHOULD INCLUDE LIAISON WITH THE FOLLOWING PARTIES:
 - ENVIRONMENT AGENCY - CONFIRM CLEARANCES.
 - STATUTORY UNDERTAKERS - CONFIRM SERVICES IMPACTING THE NEW BRIDGE WORKS.
 - NOC TRA - CONFIRM LOADING AND OTHER BRIDGE DESIGN RELATED CONSTRAINTS.
 - BOREHOLE INFORMATION/GROUND CONDITIONS.
 - THE BRIDGE WILL BE DESIGNED TO LOADING LM1/LM2 AND LM3 LOADING UP TO A MAXIMUM SV196.

INDICATIVE CONSTRUCTION SEQUENCE:
 BELOW IS AN INDICATIVE CONSTRUCTION SEQUENCE OF KEY OPERATIONS FOR THE PROPOSED CONSTRUCTION OF THE BRIDGE.

- ESTABLISH SAFE WORKING AREA BY ERECTING A TEMPORARY FENCE ALONGSIDE THE RIVER AND AROUND AREA OF PROPOSED CONSTRUCTION WORK TO PREVENT ACCESS.
- INSTALL SHEET PILES, PILECAP AND GUARD RAIL.
- CONSTRUCT REINFORCED CONCRETE ABUTMENTS AND WINGWALLS.
- BACKFILL BEHIND ABUTMENT UP TO BEARING BLOCK LEVEL.
- DELIVER THE ARCH PANELS ON SITE AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CAST SPANDREL, PARAPET WALL.
- BACKFILL OVER THE ARCH.
- SURFACING WORKS.



SAFETY, HEALTH AND ENVIRONMENTAL SYMBOL LEGEND
 INDICATES A RESIDUAL RISK AS A WARNING

IN ADDITION TO THE HAZARDOUS RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THE DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS:

CONSTRUCTION	REF. CODE	RISK DESCRIPTION
WORKING ADJACENT TO WATER/EMBANKMENT	REF. 001	WORKING ADJACENT TO WATER/EMBANKMENT
WORKING IN A FLOOD PLAIN	REF. 002	RISK OF FLOODING
RISK OF UNSTABLE LOADS DUE TO LIFTING POINTS NOT ALIGNED WITH CENTRE OF GRAVITY ESPECIALLY FOR ARCH PANELS	REF. 003	CHANCE TO SERVICES, DESTRUCTION
UNKNOWN GROUND CONDITIONS	REF. 004	UNKNOWN GROUND CONDITIONS

NO	REV	DATE	DESCRIPTION	DES	CHK	APP
S0	P.1	02/04/19	ISSUED FOR INFORMATION		RM	RM

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Client: **Northamptonshire County Council** and **Network Rail**

Project Title: **NORTHAMPTON NORTHWEST RELIEF ROAD**

Drawing Title: **PRECAST ARCH GENERAL ARRANGEMENT**

Scale	Drawn	Designed	Checked	Approved	QR CODE
NTS	JW	RM	RM	HM	
Size	Date	Date	Date	Date	
A1	02/04/19	02/04/19	02/04/19	02/04/19	
Status	APPROVAL IN PRINCIPLE				Suitability
Drawing Number	70032086-WSP-SBR-0002-DR-CB-00001				Revision
					S0
					P.1