

- ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
- DO NOT SCALE FROM THIS DRAWING.
- THE DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION FOR HIGHWAY WORKS, CONTRACT-SPECIFIC APPENDICES, DRAWINGS NYKGGD-WSP-SMN-ALL-DR-CB-0001, AND NYKGGD-WSP-SMN-ALL-DR-CB-0002, AND THE DRAWINGS LISTED IN THE SCHEDULE ON THIS DRAWING.
- THE CONTRACTOR SHALL MEASURE AND CONFIRM ALL DIMENSIONS/LEVELS THAT HAVE A DIRECT IMPACT ON THE WORKS PRIOR TO EXECUTION. IN CASE OF DOUBTS, OMISSIONS, OR ERRORS, THE CONTRACTOR NEEDS TO SEEK CLARIFICATION FROM THE NEC PROJECT MANAGER.
- FOR THE AFFECTED AREAS PRIOR TO WORKS, THE CONTRACTOR SHALL OBTAIN UP-TO-DATE UTILITY PLANS AND CARRY OUT SURVEYS TO POSITIVELY IDENTIFY AND MARK-UP ANY UTILITY APPARATUS. REFER TO APPENDIX 1/16 FOR FURTHER INFORMATION.

GEOTECHNICAL

- FORMATION INSPECTIONS SHALL BE UNDERTAKEN BY THE EMPLOYER'S SITE REPRESENTATIVE WHO SHALL BE A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER. THE STRUCTURE IS ASSUMED TO BE FOUNDED ON SUPERFICIAL DEPOSITS. ANY SOFT SPOTS SHALL BE EXCAVATED AND REPLACED IN ACCORDANCE WITH THE RELEVANT STANDARD EARTHWORKS DETAILS AND IN ACCORDANCE WITH THE SERIES 600 SPECIFICATION. THE NEC PROJECT MANAGER SHALL BE INFORMED IMMEDIATELY IF FORMATION MATERIAL DIFFERS FROM THAT ASSUMED WITHIN THE DESIGN.
- PRECAST UNITS ARE TO BE FOUNDED ON SPREAD FOOTINGS AND THEY ARE TO HAVE THE FOLLOWING BEDDING DETAILS:
 - A GRANULAR BED WITH THE LOWER 150MM BEING 6N MATERIAL AND THE UPPER 50MM BEING CLASS 6L MATERIAL AS PER MCHW SERIES 600, EXCEPT FOR CLASS 6L, ONLY THE GRADING REQUIREMENT APPLIES AND NOT THE OTHER MATERIAL PROPERTIES LISTED IN TABLE 6/1 OF MCHW (BUT THE SULPHATE REQUIREMENTS OF CLAUSE 601 STILL APPLY).
 - ALTERNATIVELY, THE LOWER 150MM MAY BE REPLACED BY A 75MM MINIMUM THICKNESS BLINDING CONCRETE COMPRISING DESIGNATED CONCRETE FND2.

WHERE PRECAST UNITS ARE FOUNDED ON HARD MATERIAL (AS DEFINED IN BD 31) THEY SHALL BE LAID ON A TWO LAYER BED CONSISTING OF A LOWER 75MM MINIMUM BLINDING CONCRETE LAYER COMPRISING DESIGNATED CONCRETE FND2, COVERED BY AN UPPER 50MM MINIMUM GRANULAR LAYER OF CLASS 6L AS DESCRIBED ABOVE.

ALL BEDDING OPTIONS TO BE A MIN 300MM WIDER THAN THE PRECAST ELEMENTS AT OUTER EDGES.

- THE LEVEL OF THE BOTTOM OF PRECAST UNITS AND TOP OF PILED SLAB TO BE ADJUSTED BASED ON THICKNESS OF CONTRACTOR DESIGNED PRECAST BOX BOTTOM SLAB IN ORDER TO ACHIEVE STATED INVERT LEVELS (ASSUMED 300MM SLAB THICKNESS WITH 300MM NATURAL BED SHOWN ON THIS DRAWING).

STONE FACING

- REFER TO DRAWING NYKGGD-WSP-SMN-ALL-DR-CB-0002 AND SPECIFICATION APP 24/1 FOR DETAILS.

ENVIRONMENTAL

- CONTRACTOR TO DESIGN MAMMAL LEDGES IN ACCORDANCE WITH HA81/99 DESIGN STANDARD.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

CONSTRUCTION
C15 - CONFINED SPACES (TANKS, TUNNELS, PITS, CULVERTS)
C60 - FLOOD RISK (PLUVIAL)

SAFETY, HEALTH AND ENVIRONMENTAL SYMBOL LEGEND

INDICATES A RESIDUAL RISK AS A WARNING

Rev.	Date	Description	By	Chk'd	App'd
C01	14/07/2023	ISSUED FOR CONSTRUCTION	SH	DM	DM



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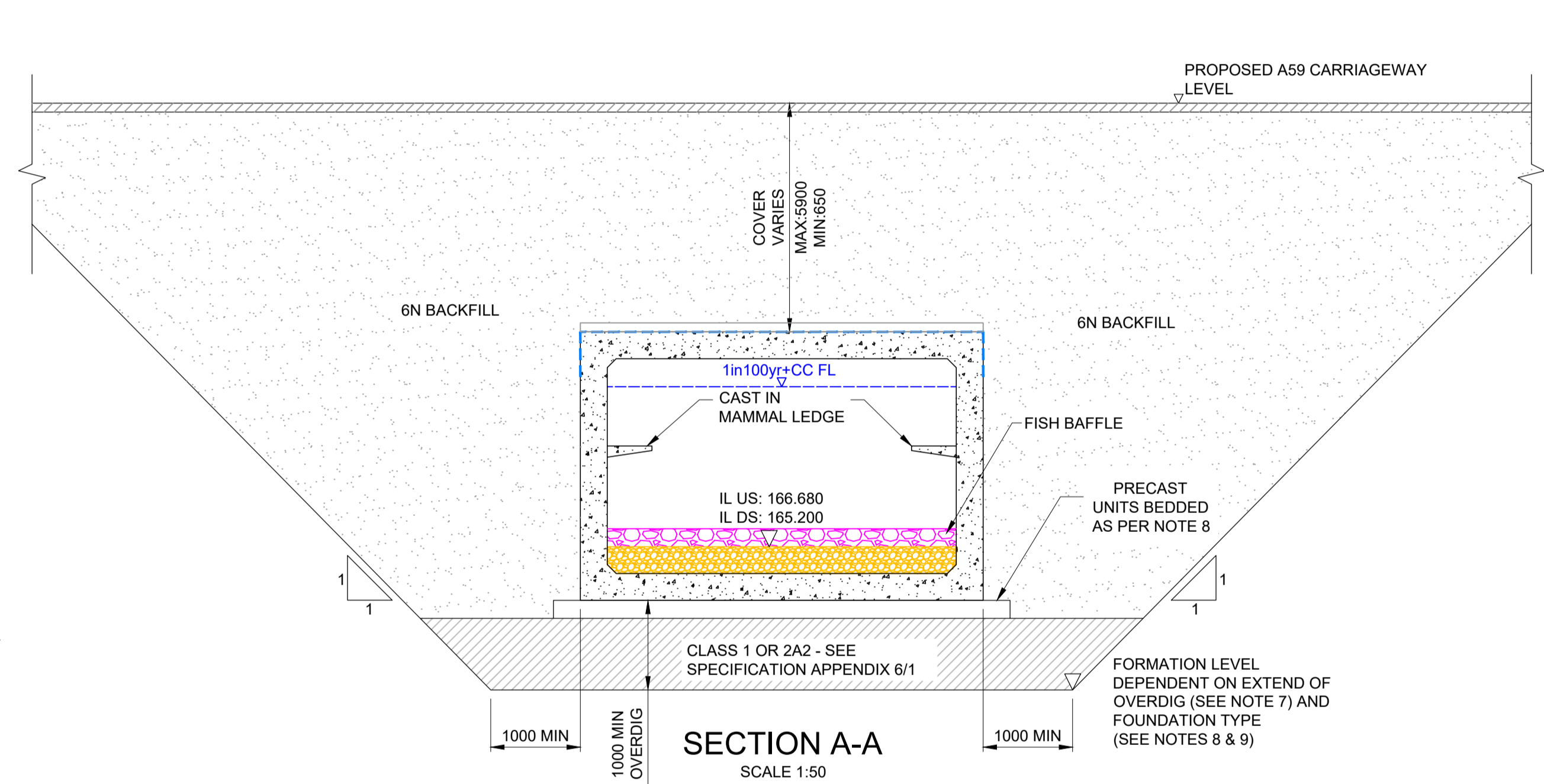
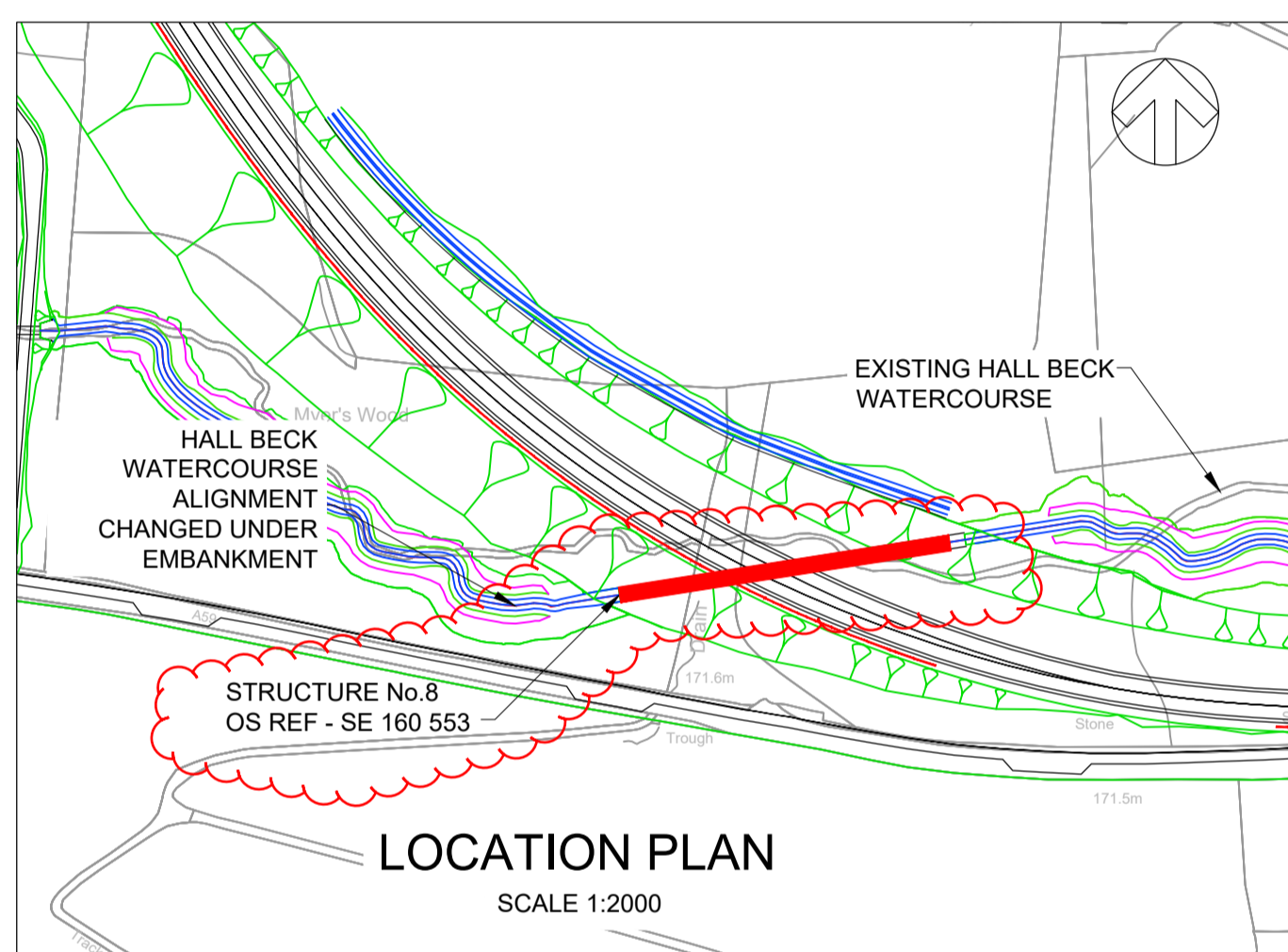
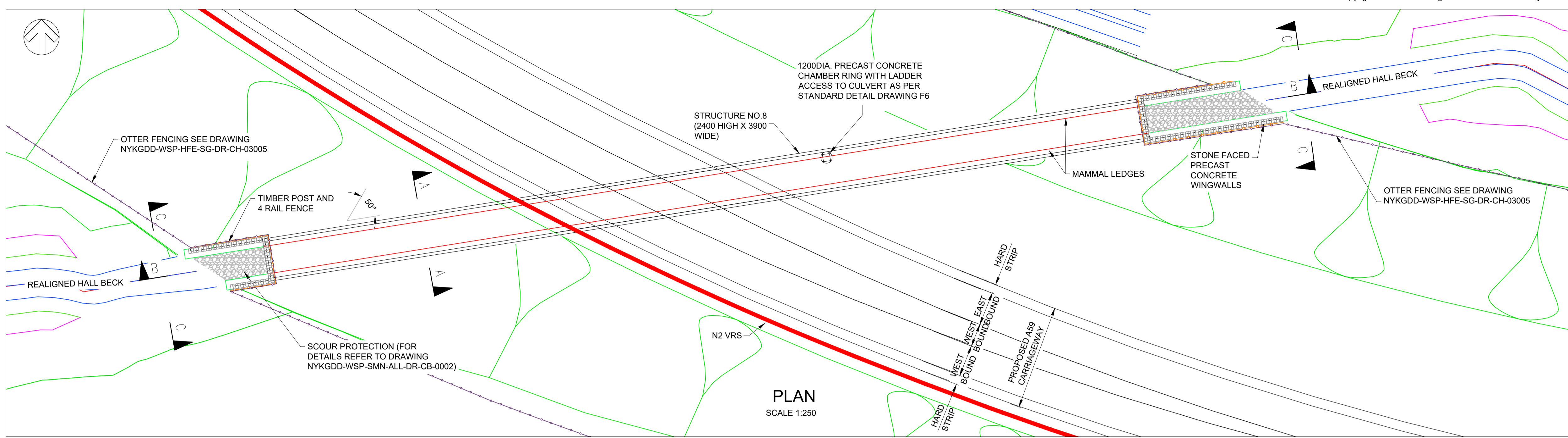


Project Title: **A59 KEX GILL DIVERSION**

Drawing Title: **A59 KEXGILL CULVERT (ST008) GENERAL ARRANGEMENT SHEET 1 OF 2**

Scale	Drawn	Checked	Approved	Authorised
AS SHOWN	LS	IM	HM	HM
Original Size	Date	Date	Date	Date
A1	05/05/20	05/05/20	05/05/20	05/05/20
Drawing Status	FOR REVIEW			Suitability
				S3

Drawing Number	Project	Originator	Volume	Project Ref. No.
NYKGGD	ST008	WSP	SMN	
Location	Type	Role	Number	Revision
ST008	DR	CB	0001	C01



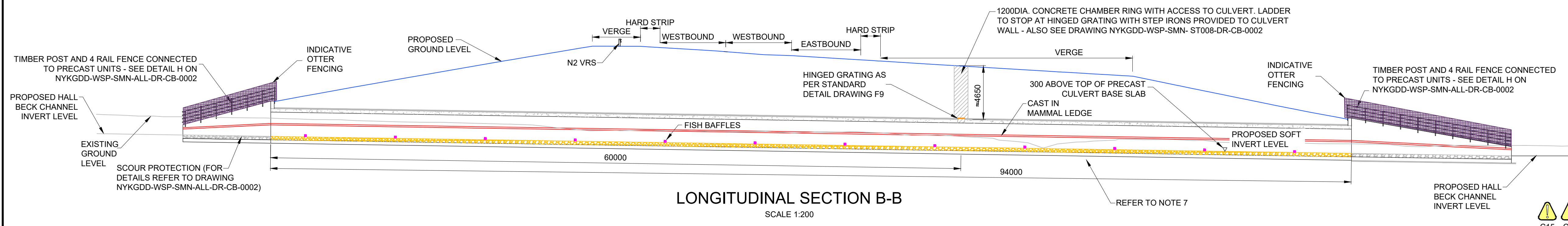
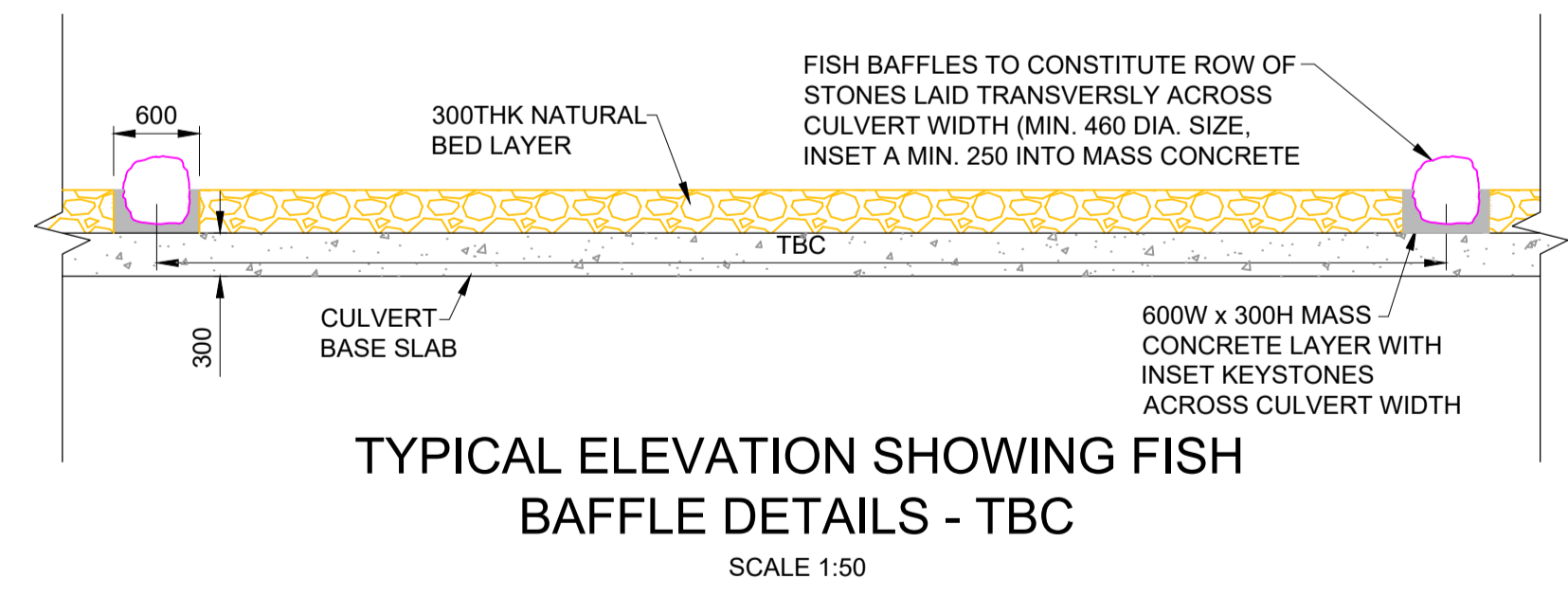
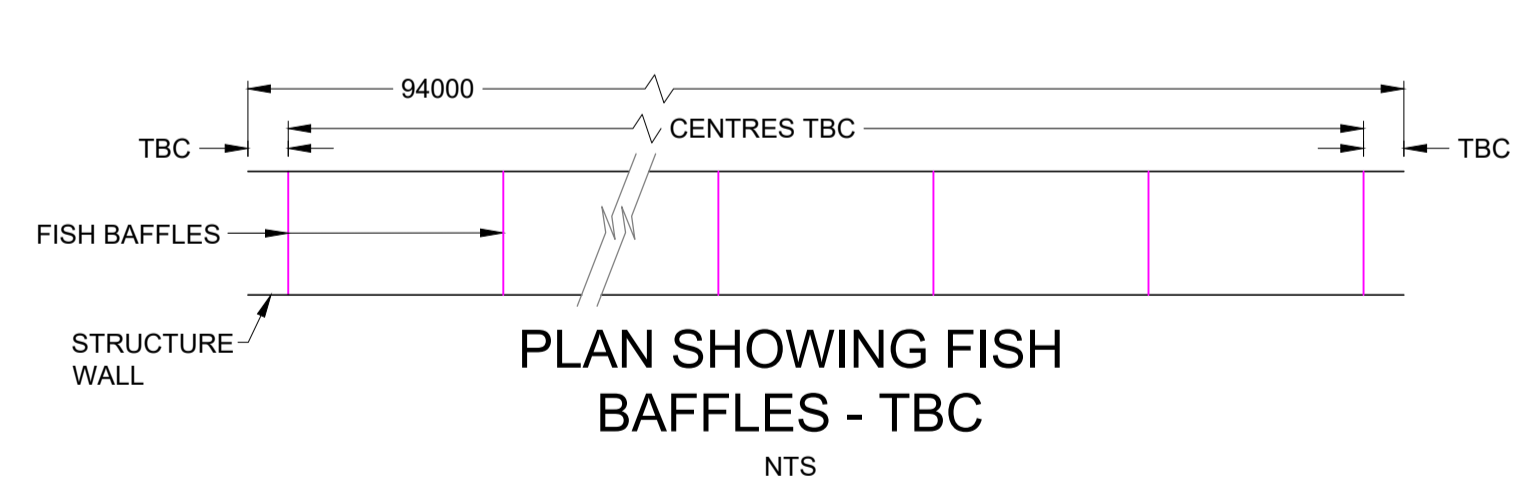
DRAWING SCHEDULE	
NYKGGD-WSP-SMN-ST008-DR-CB-0001	GENERAL ARRANGEMENT SHEET 1 OF 2
NYKGGD-WSP-SMN-ST008-DR-CB-0002	GENERAL ARRANGEMENT SHEET 2 OF 2
NYKGGD-WSP-SMN-ST008-DR-CB-0003	CULVERT SETTING OUT POINTS
NYKGGD-WSP-SMN-ALL-DR-CB-0001	TYPICAL CULVERT DETAILS SHEET 1 OF 2
NYKGGD-WSP-SMN-ALL-DR-CB-0002	TYPICAL CULVERT DETAILS SHEET 2 OF 2

NOTE WINGWALL AND HEADWALL ARRANGEMENTS/DIMENSIONS TO BE AGREED WITH NEC PROJECT MANAGER PRIOR TO CONTRACTOR FINALISING DETAILED DESIGN.

ALL CONTRACTOR DESIGNED ELEMENTS TO BE DESIGNED IN ACCORDANCE WITH APPENDIX 1/10 FOLLOWING SPECIFIED TECHNICAL APPROVAL PROCESS.

- INDICATIVE CONSTRUCTION SEQUENCE:
- SET UP SITE COMPOUND
 - INSTALL TEMPORARY WORKS TO DIVERT WATERCOURSE AT EAST END.
 - INSTALL TEMPORARY WORKS TO SUPPORT EXCAVATION
 - EXCAVATE TO FORMATION LEVEL OF BOX CULVERT AND WINGWALLS (INCLUDING OVERDIG) AND INSPECT GROUND CONDITIONS
 - INSTALL PRECAST CONCRETE BOX CULVERT SECTIONS
 - INSTALL NATURAL STONE BED PROGRESSED TO REDUCE CONFINED SPACE WORKING
 - INSTALL WINGWALLS TO BOTH ENDS OF THE STRUCTURE
 - DIVERT WATERCOURSE TO NEW PERMANENT CHANNEL
 - BACKFILL STRUCTURE IN A STAGED MANNER WITH HEIGHTS NOT DIFFERING BY MORE THAN 250MM AFTER COMPACTION ON OPPOSING SIDES
 - INSTALL PRECAST CONCRETE ACCESS CHAMBER AS BACKFILLING AS BACKFILLING PROGRESSES
 - CONSTRUCT EMBANKMENTS AND NEW A59 CARRIAGEWAY
 - INSTALL TIMBER & OTTER FENCING TO THE ENDS OF THE NEW CULVERT
 - INSTALL VRS TO THE NEW A59 VERGES

14. COMMISSION NEW A59 ROAD ALIGNMENT



C15 C60