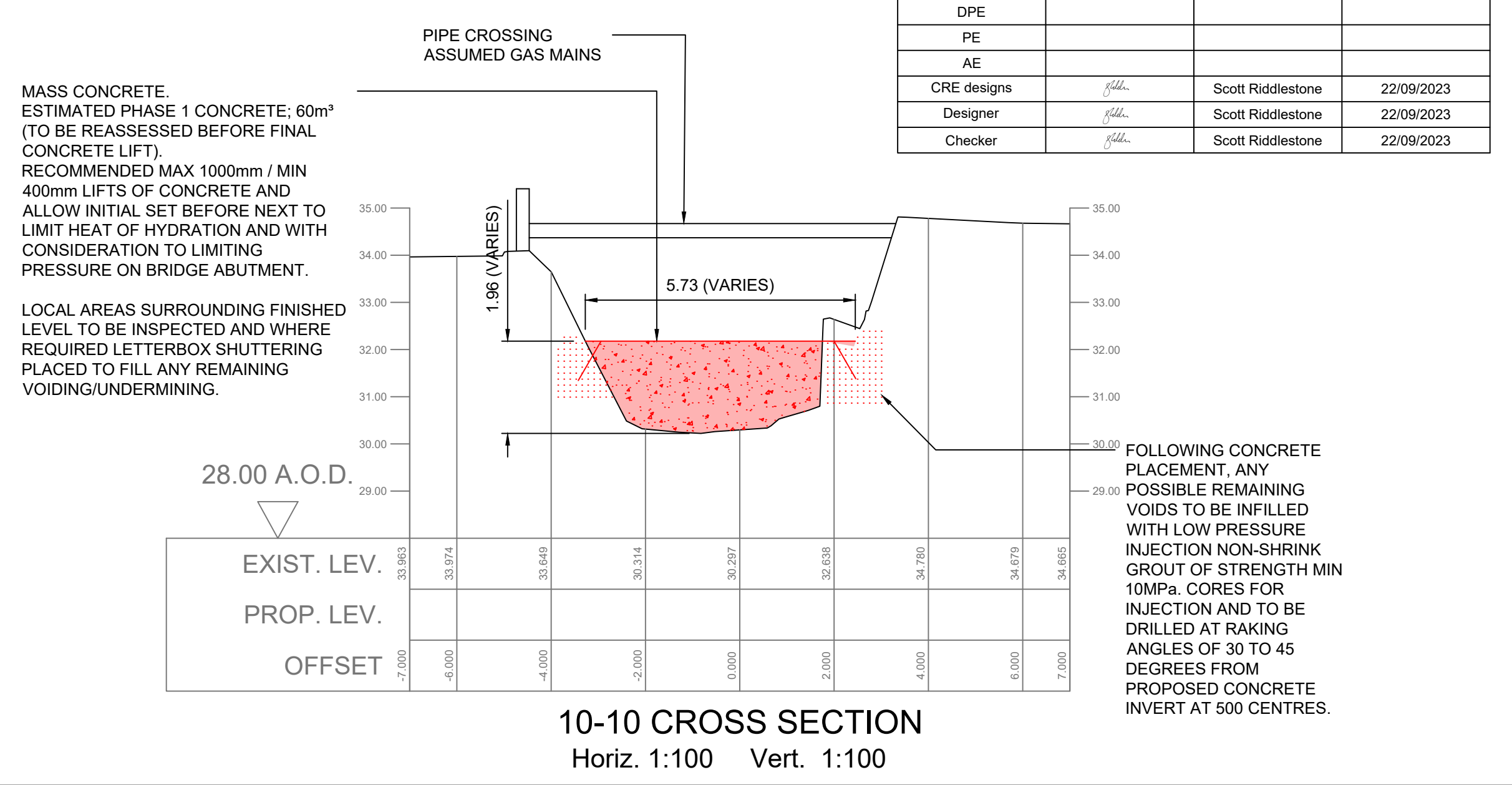
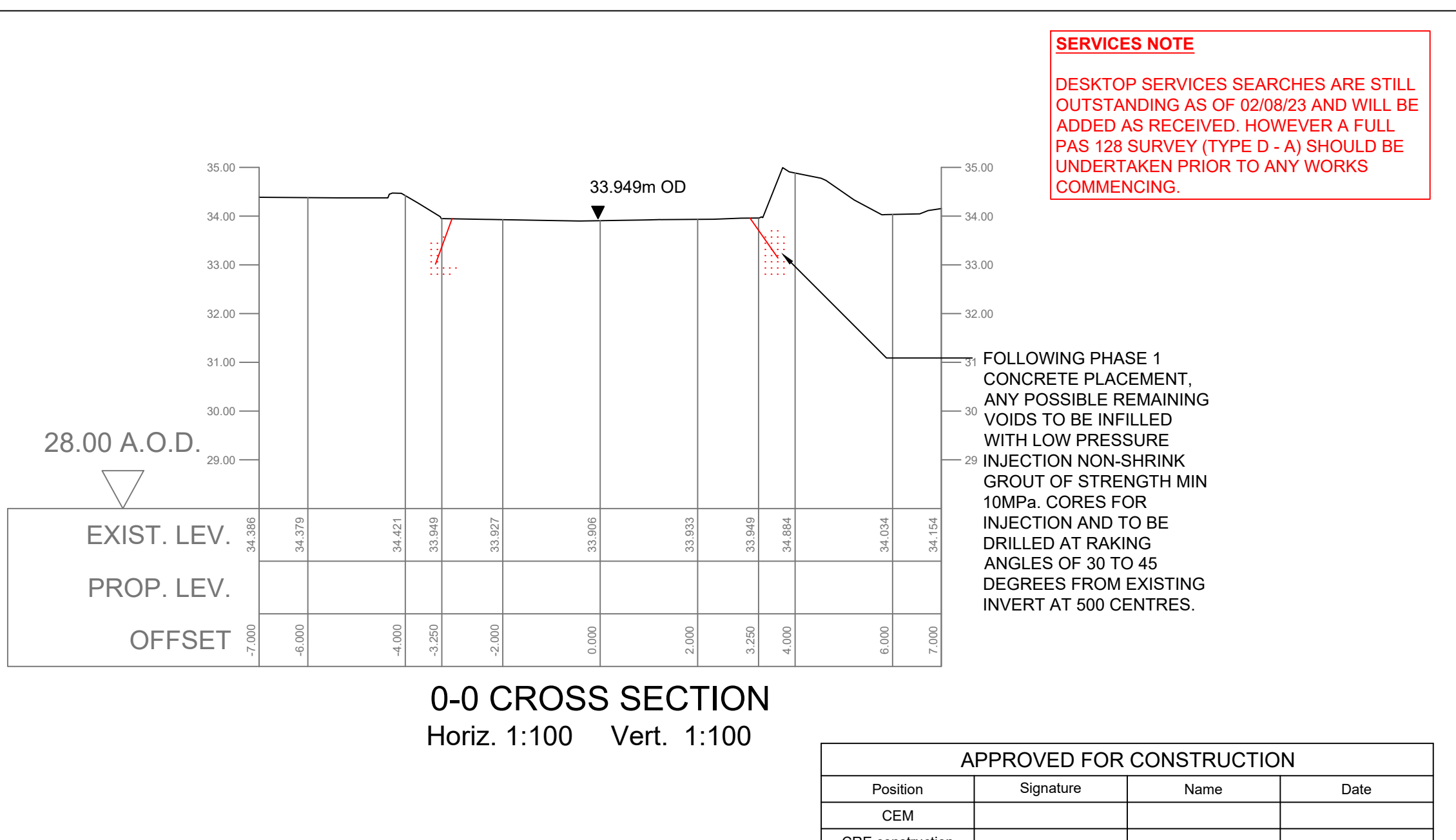
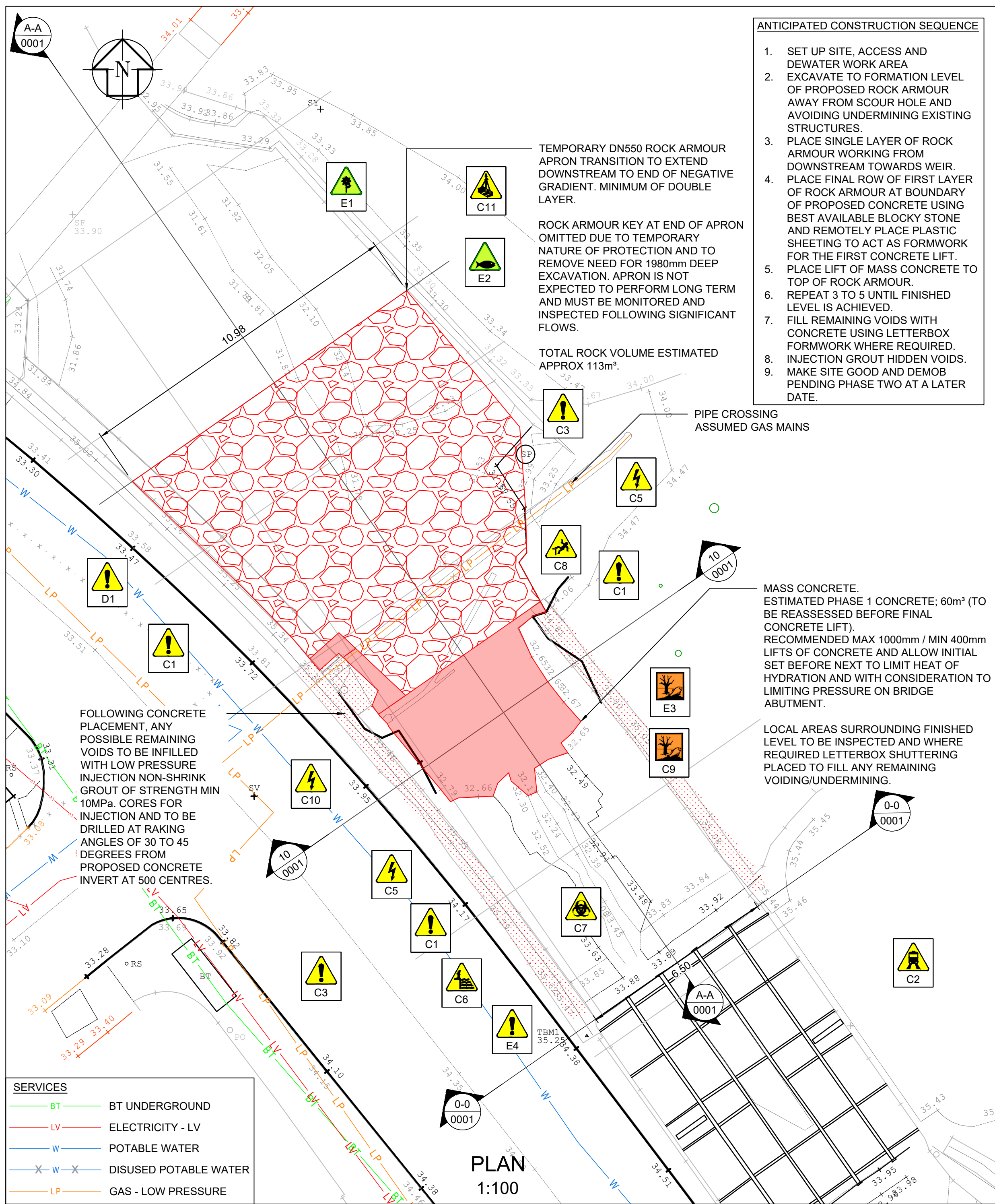




PHASE ONE - NOTEWORTHY DESIGN LIMITATIONS

DUE TO IMPOSED LIMITATIONS IN PERMANENT WORKS EXTENT AT PHASE ONE (INITIAL TEMPORARY REPAIR) IT IS NOT DEEMED REASONABLY PRACTICABLE TO UNDERTAKE A REPAIR SOLUTION THAT WILL PREVENT FURTHER SCOUR FROM OCCURRING.

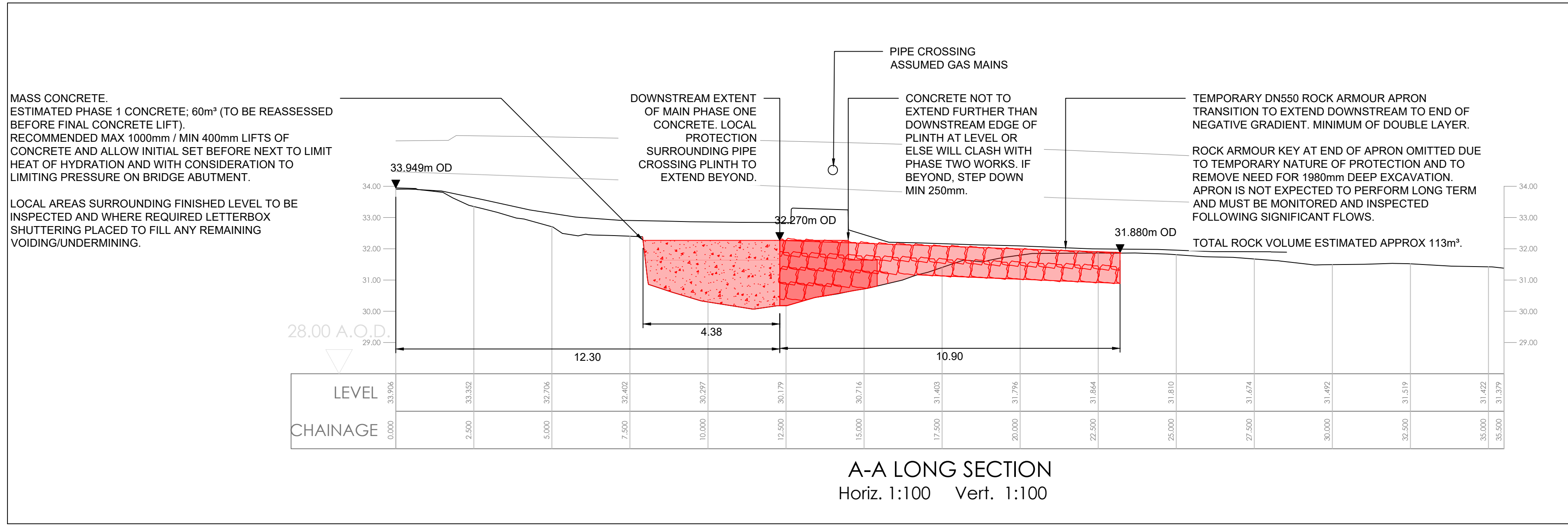
THE REPAIR AND NEARBY STRUCTURES ARE RECOMMENDED TO BE MONITORED ON A REGULAR BASIS AND AFTER ANY SIGNIFICANT RIVER FLOW EVENTS FOR SCOUR OR DAMAGE.

PHASE TWO (PERMANENT REPAIR AND WEIR REINSTATEMENT) IS TO BE UNDERTAKEN AT THE EARLIEST OPPORTUNITY.

Safety, Health and Environment information

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks

Design	Construction	Environment
D1	C1	E1
	C2	E2
	C3	E3
	C4	E4
	C5	
	C6	
	C7	
	C8	
	C9	
	C10	
	C11	



UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

TYPE D	TYPE C	TYPE B	TYPE A
None			

THE POSITION OF ANY EXISTING PUBLIC OR PRIVATE SEWERS, UTILITY SERVICES, PLANT OR APPARATUS SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM STATUTORY RECORDS. THE INFORMATION SHOWN IS BELIEVED TO BE CORRECT BUT NO WARRANTY TO THIS IS EXPRESSED OR IMPLIED. OTHER SUCH PLANT OR APPARATUS MAY ALSO BE PRESENT BUT NOT SHOWN. INVESTIGATIONS SHOULD BE UNDERTAKEN ON SITE CONFIRMING LOCATIONS BEFORE BREAKING GROUND.

GENERAL NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN (OD) UNLESS NOTED OTHERWISE.
3. ALL COORDINATES ARE IN METRES RELATIVE TO ORDNANCE SURVEY NATIONAL GRID.
4. DO NOT SCALE FROM THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/VERIFIED ON SITE.
5. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE SUPERVISOR IMMEDIATELY.
6. THE ELECTRONIC VERSION OF THIS DRAWING IS NOT TO BE USED FOR SETTING OUT.
7. REFER TO CONTRACT SPECIFICATION FOR DETAILS OF MATERIALS AND WORKMANSHIP TO BE USED FOR THE WORKS SHOWN ON THIS DRAWING.
8. HAZARDS TO BE CLEARLY DEFINED AND DISPLAYED AT DESIGN STAGE

KEY

CONSTRUCTION - PHASE ONE

CONSTRUCTION PHASE TWO

EXISTING

TO BE REMOVED

DESIGNED CONCRETE SPECIFICATION FOR PHASE 1 WEIR REPAIR

THE CONCRETE SHALL BE PRODUCED IN ACCORDANCE WITH BS8500-2.

COMPRESSIVE STRENGTH CLASS; C25/30

MAXIMUM WATER/CEMENT RATIO; 0.55

MINIMUM CEMENT/COMBINATION CONTENT; 360 kg/m³

RECOMMENDED CEMENT/COMBINATIONS TYPES; IIB-P + SR, IIB-Q + SR, IIB-V + SR, IIA + SR, IIB + SR, IIV-B, IIV-Q, IIV-V (DC-2)

MAXIMUM AGGREGATE SIZE; 10 mm

CONSISTENCE CLASS; S4 (SELF COMPACTING)

Rip Rap Scour Protection - Stone Specification

	d15/M15	d50/M50	d100/M100
Size (mm)	440	550	690
Weight (kg)	210	420	830
Test	Reference Standard	Unit	Value
Oven Dry Particle Density	BS EN 13383-2	tm³	2.5
Apparent Particle Density	BS EN 13383-2	tm³	2.52
Water Absorption (WA) (max)	BS EN 13383-2	%	2
Compressive Strength Category	EN 1926	N/mm²	CS ₈₀
Resistance to wear Micro-Deval Coefficient (Mde) (max)	BS EN 1097-1	Mde	10 to 30
Resistance to fragmentation Los Angeles Test (LA) (max)	BS EN 1097-2	%	<25
Magnesium Sulphate Soundness (max)	BS EN 1367-2	%	10
Freeze-Thaw Loss (max)	BS EN 13383-2	%	1

Client Approval

Rev.:	Date	Drawn	AB	Designed	EH	Checked	SR	Approved	SR
C01	22/09/23	Drawn	AB	Designed	EH	Checked	SR	Approved	SR

Comments

Form A - Only Phase 1 shown and footprint of works reduced to meet NRW requirements (reduction may affect performance).

Rev.:

Date

25/07/23

Drawn

EH

Designed

EH

Checked

SR

Approved

SR

Comments

SKETCH for coordination / discussion - Topographic survey added

Rev.:

Date

11/07/23

Drawn

EH

Designed

EH

Checked

SR

Approved

SR

Comments

SKETCH for coordination / discussion - Phase one and phase two added

Rev.:

Date

30/05/23

Drawn

EH

Designed

EH

Checked

SR

Approved

SR

Comments

SKETCH for coordination / discussion

Rev.:

Date

25/04/23

Drawn

EH

Designed

EH

Checked

SR

Approved

SR

Comments

SKETCH for coordination / discussion

Client Approval

A - Approved

B - Approved with Revisions

C - Do Not Use

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JBA consulting

Project

RESOLVEN AQUEDUCT & WEIR

Title

SCOUR HOLE URGENT REPAIR
PHASE 1 WORKS

Client

for

NetworkRail

DYER & BUTLER
A part of MGR Services

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Drawn: E HOGAN 20/07/23 Designed: E HOGAN 20/07/23

Checked: S RIDDLESTONE 24/07/23 Approved: S RIDDLESTONE 25/07/23

Project Reference: 2022S1041 Scale: As shown at A1

Drawing Number: IUY-JBAU-00-00-DR-C-0001 Status: A1 Revision: C01 Sheet Size: A1