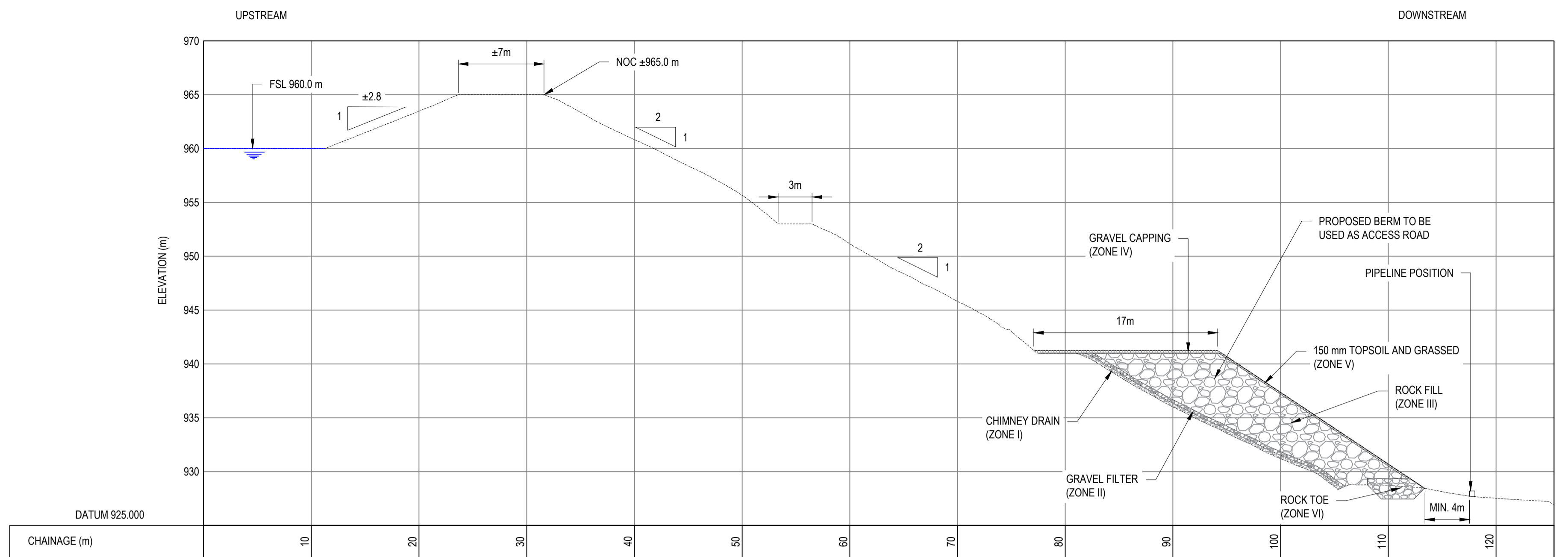
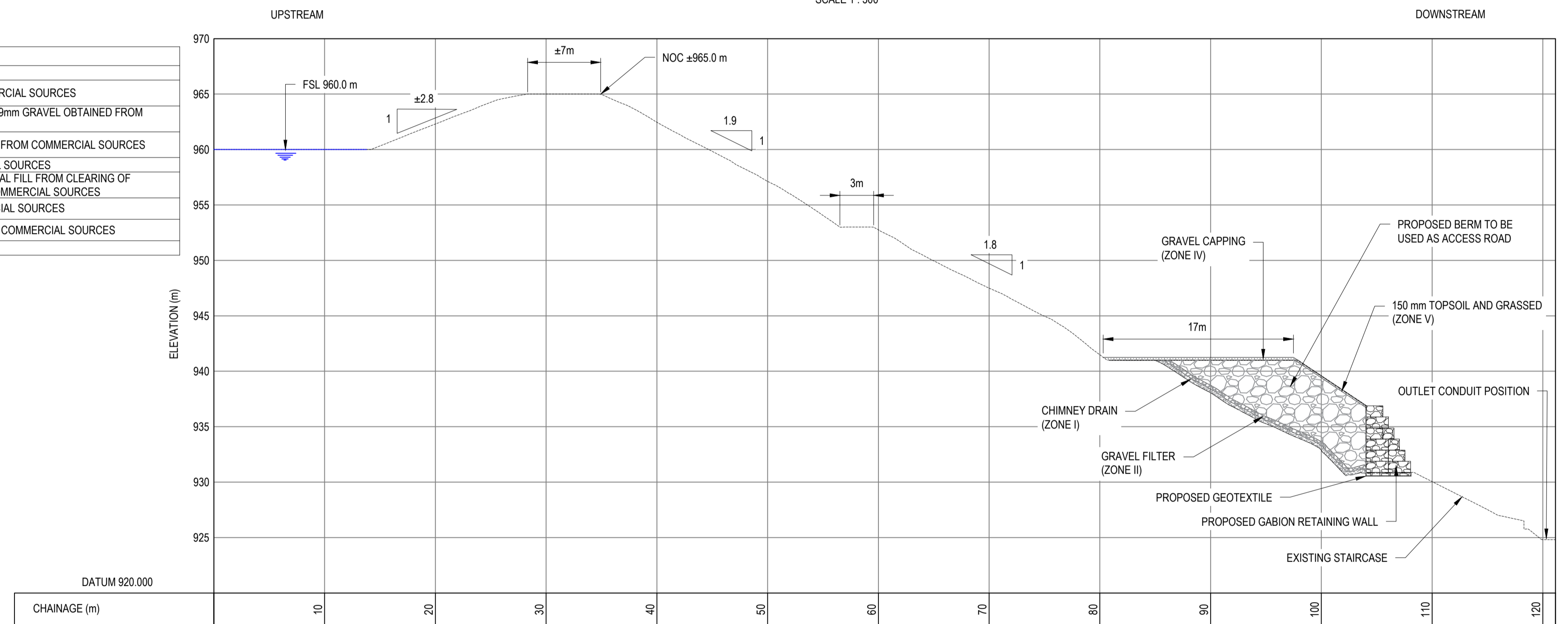


PLAN LAYOUT
SCALE 1 : 1500

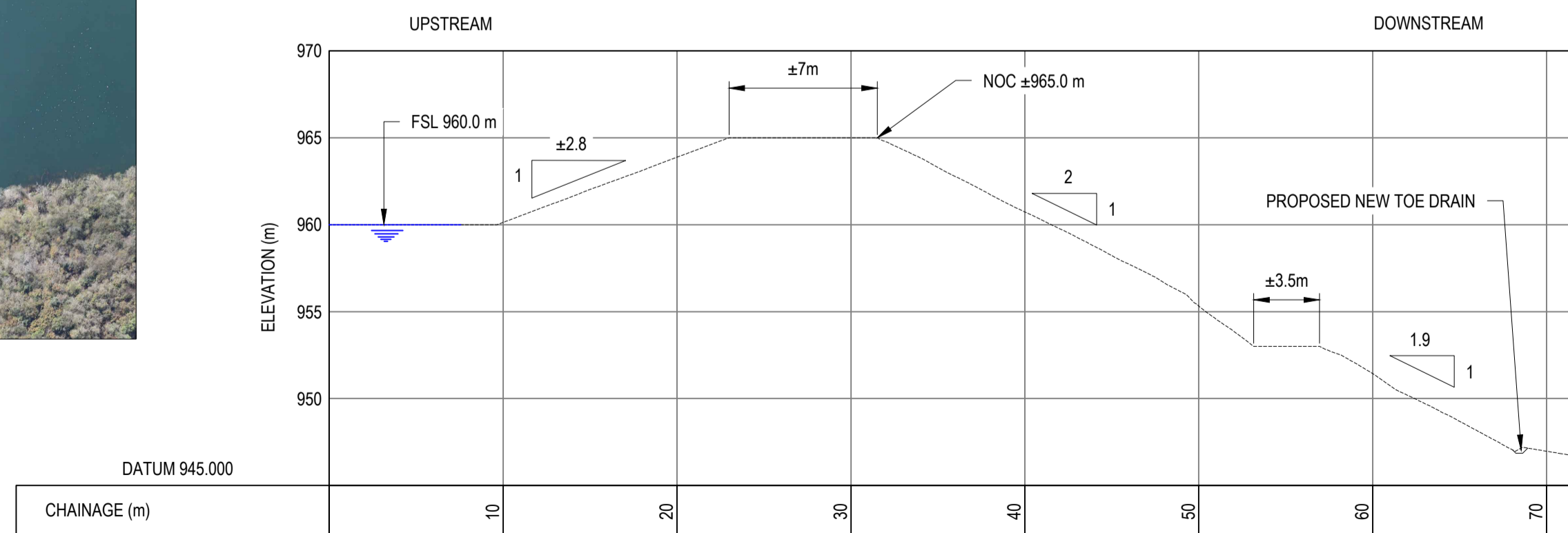
ZONE LEGEND	
ZONES	MATERIAL
I - CHIMNEY DRAIN	COHESIONLESS SAND OBTAINED FROM COMMERCIAL SOURCES
II - GRAVEL FILTER	SELECTED CLEAN, HARD AND COHESIONLESS 19mm GRAVEL OBTAINED FROM COMMERCIAL SOURCES
III - ROCK FILL	SELECTED COARSE ROCK MATERIAL OBTAINED FROM COMMERCIAL SOURCES
IV - GRAVEL CAPPING	CLAYEY GRAVEL OBTAINED FROM COMMERCIAL SOURCES
V - TOPSOIL	ALTERNATING LAYERS OF TOPSOIL AND GENERAL FILL FROM CLEARING OF CONSTRUCTION AREAS OR OBTAINED FROM COMMERCIAL SOURCES
VI - ROCK TOE	BUILDERS, GRAVEL AND ROCK FROM COMMERCIAL SOURCES
VII - GENERAL FILL	SELECTED COARSE MATERIAL OBTAINED FROM COMMERCIAL SOURCES
- SEE SPECIFICATIONS FOR DETAILED DESCRIPTIONS AND REQUIREMENTS	



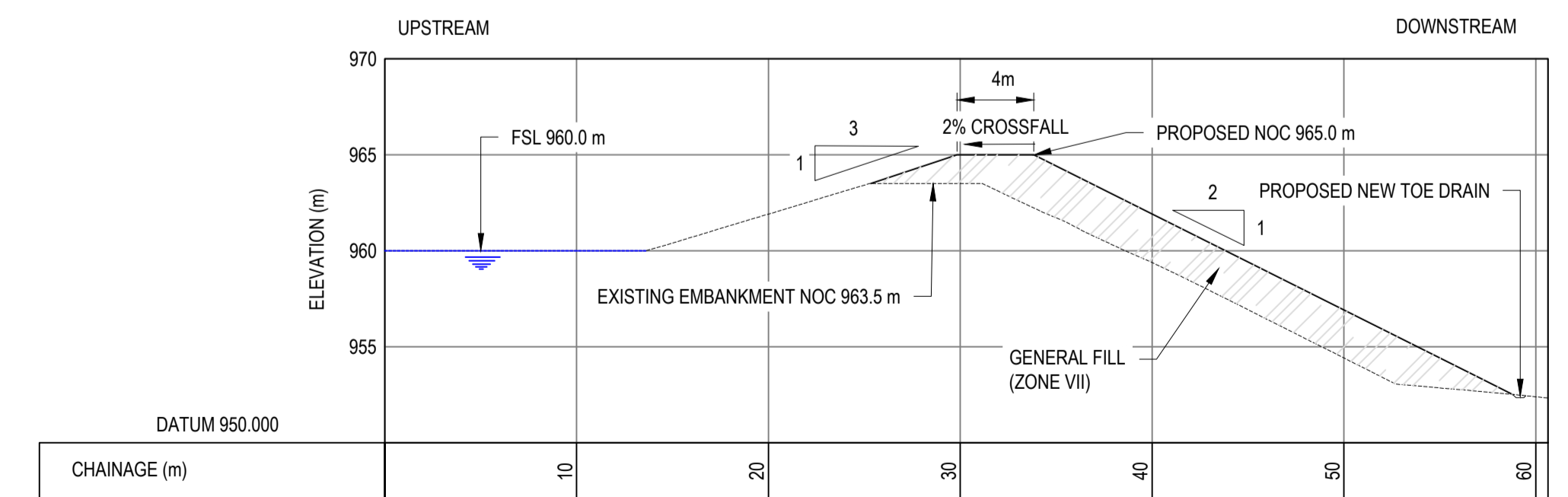
SECTION A - A: MAXIMUM EMBANKMENT SECTION
FROM 0.0 TO 125.4
SCALE 1 : 300



SECTION B - B: OUTLET CONDUIT
FROM 0.0 TO 121.1
SCALE 1 : 300



SECTION C - C
FROM 0.0 TO 72.8
SCALE 1 : 300

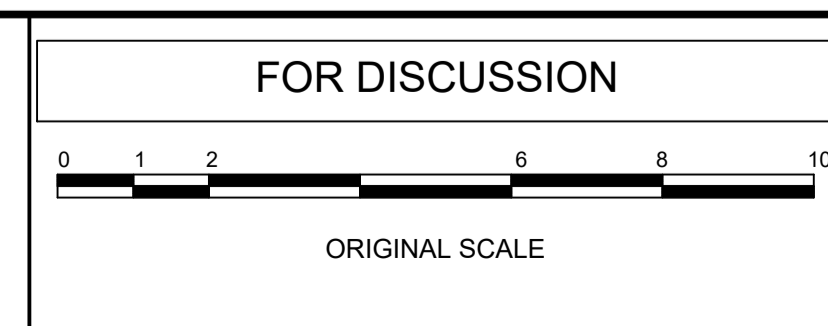


SECTION D - D: RAISING OF RIGHT FLANK EMBANKMENT
FROM 0.0 TO 60.6
SCALE 1 : 300

THE MASTER HELD AT DJ HAGEN & ASSOCIATES OFFICE
BEARS THE ORIGINAL SIGNATURE OF APPROVAL

No.	DATE	REVISION	CONSULT. ENG.
C	07/20	FOR DISCUSSION	DJ HAGEN
B	06/20	FOR DISCUSSION	DJ HAGEN
A	05/20	FOR DISCUSSION	DJ HAGEN

NOTES



GENERAL NOTES
NO DIMENSION OR LEVEL TO BE SCALED OFF THIS DRAWING
ALL DIMENSIONS AND LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION
THE POSITION OF ALL EXISTING SERVICES ARE TO BE OBTAINED FROM THE MUNICIPAL AUTHORITIES AND IF UNKNOWN THE EXACT POSITION SHALL BE DETERMINED BY CAREFUL HAND EXCAVATION.

CLIENT
SAPPI



NGODWANA DAM REHABILITATION
PLAN LAYOUT AND EMBANKMENT CROSS SECTIONS
SCALE : AS SHOWN
DRAWING SIZE : A1

DESIGNED BY J. MBENGA PROF REG NO.	DRAWING CHECKED BY DJ. HAGEN PROF REG NO.
DRAWN BY J. MBENGA PROF REG NO.	APPROVED BY DJ. HAGEN PROF REG NO.
PROJECT No. DJH059	DATE JULY 2020
DRG No. DJH059-100-LS-01	REV No. C