

**LOT 15 DP1061216, LOT 7 DP658304, LOT 7A DP365458, LOT 2 DP1016073, LOT 3 DP1016073, LOT 4 DP1016073, 41-45 VICTORIA STREET EAST GOSFORD
INTERNAL CIVIL WORKS**



APPROXIMATE
LOCATION OF SITE



DWG No.	DRAWING TITLE
C1.1	COVER SHEET
C2.1	SOIL & WATER MANAGEMENT PLAN
C2.2	SOIL & WATER MANAGEMENT DETAILS
C3.1	LOWER GROUND FLOOR WATER CYCLE MANAGEMENT & LEVELS PLAN
C3.2	GROUND FLOOR WATER CYCLE MANAGEMENT & LEVELS PLAN
C4.1	CIVIL LONG SECTIONS - SHEET 1
C10.1	CIVIL DETAILS - SHEET 1
C10.2	CIVIL DETAILS - SHEET 2

DRAWN: TIMOTHY SMALL DESIGNED: JAKE CARRARO JOB MANAGER: DANIEL HOLLAND VERIFIER:

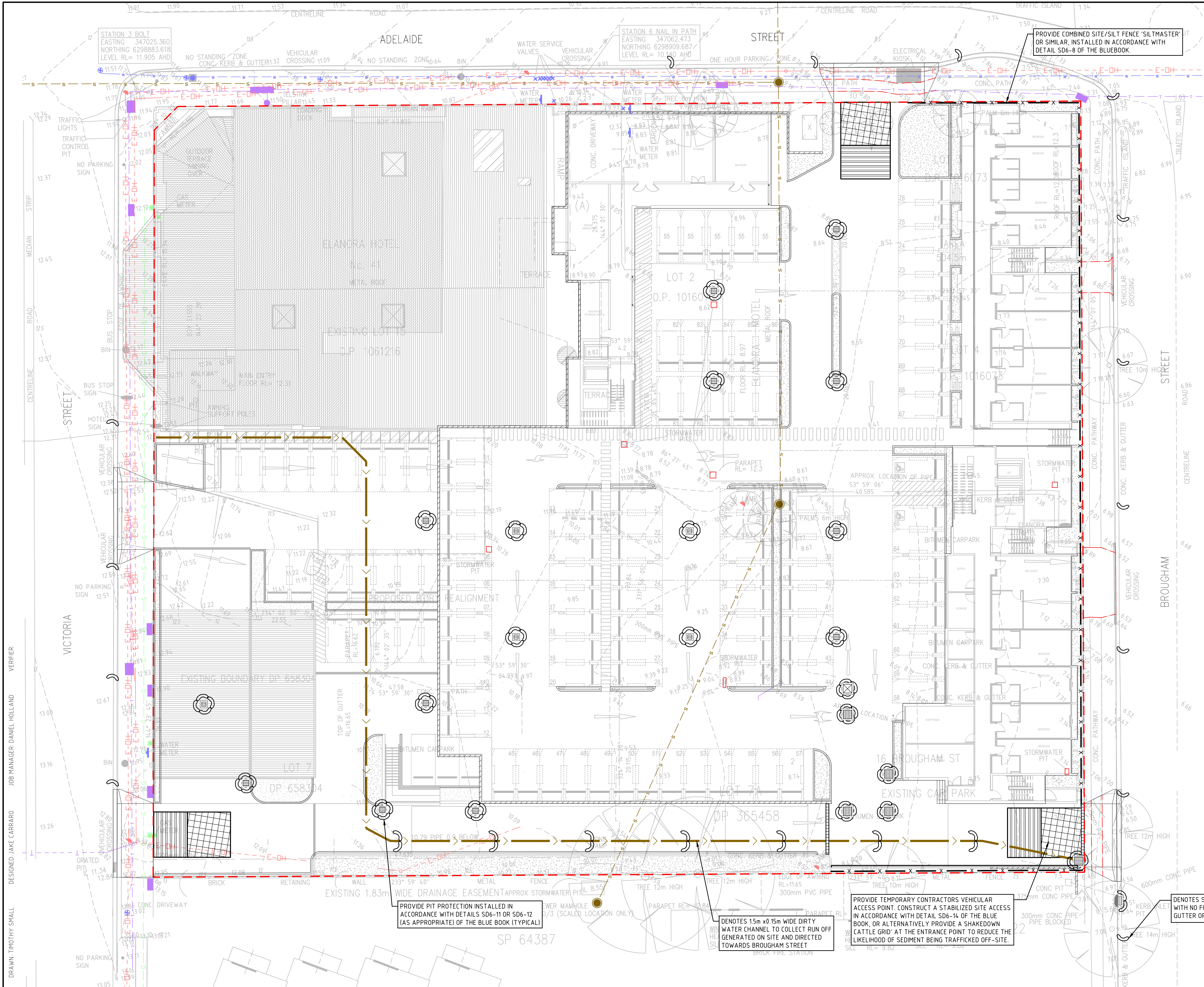
JOB MANAGER: DANIEL HOLLAND

DESIGNED: JAKE CARRARO

DRAWN: TIMOTHY SMALL

NOT FOR CONSTRUCTION

REVISION		DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT John Singleton GROUP	ARCHITECT loopcreative	NORTHROP Central Coast Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1668 Fax (02) 4367 6555 Email centralcoast@northrop.com.au ABN 81 094 433 100	PROJECT ELANORA HOTEL REDEVELOPMENT 41-45 VICTORIA STREET EAST GOSFORD NSW 2250	DRAWING TITLE INTERNAL CIVIL WORKS COVER SHEET	JOB NUMBER NL230692	
						DRAWING NUMBER						REVISION	
						C1.1						B	
						DRAWING SHEET SIZE - A1							
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LEGEND

- DENOTES SITE BOUNDARY LINE
- DENOTES COMBINED SITE/SILT FENCE 'SILTMASTER' OR SIMILAR, INSTALLED IN ACCORDANCE WITH DETAIL SD6-8 OF THE BLUEBOOK.
- DENOTES TEMPORARY CONTRACTORS VEHICULAR ACCESS POINT. CONSTRUCT A STABILISED SITE ACCESS IN ACCORDANCE WITH DETAIL SD6-14 OF THE BLUE BOOK OR PROVIDE A SHAKEDOWN CATTLE GRID AT ENTRANCE POINT TO REDUCE LIKELIHOOD OF SEDIMENT BEING TRAFFICKED OFF-SITE
- DENOTES GEOTEXTILE INLET FILTER INSTALLED IN ACCORDANCE WITH DETAIL SD6-12 OF THE BLUE BOOK
- INDICATES MESH & GRAVEL INLET FILTER INSTALLED IN ACCORDANCE WITH DETAILS SD6-11 OF THE BLUE BOOK
- DENOTES SANDBAG OR GEOTEXTILE SOCK FILLED WITH NO FINES GRAVEL PLACED IN INVERT OF GUTTER OR ALONG EDGE OF BITUMEN
- DENOTES 15m x 0.15m WIDE DIRTY WATER CHANNEL TO COLLECT RUN OFF GENERATED ON SITE AND DIRECTED TOWARDS BROUGHAM STREET

SEDIMENT & EROSION CONTROL NOTES

- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS, NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION (THE 'BLUE BOOK').
- INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
- ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
- INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
- ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAY'S WORK.
- THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION. REFER ARCHITECTS PLANS FOR TREES TO BE KEPT.
- ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
- STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
- CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
- ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
- PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
- ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.

THE CONTRACTOR SHALL ENSURE COUNCIL ASSETS AND THE UTILITIES ARE PROTECTED AT ALL TIMES. ANY AND ALL DAMAGES TO COUNCIL ASSETS AND/OR UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SPECIFICATION OF COUNCIL AND THE UTILITIES AUTHORITY AND AT NO COST TO THE PRINCIPAL OR NORTHROP CONSULTING ENGINEERS.

SEDIMENT BASIN SIZING CALCULATION
THE SITE IS LOCATED WITHIN THE GOSFORD-LAKE MACQUARIE SOIL LANDSCAPE AND PRIMARILY CONSISTS OF CLAYS, WHICH HAS THE FOLLOWING PROPERTIES (IN ACCORDANCE WITH TABLE C17 OF THE 'BLUE BOOK').

SITE PARAMETERS	
CONSTRAINT	VALUE
SEDIMENT TYPE	D
SOIL HYDROLOGY GROUP	D
K = SOIL ERODIBILITY (K-FACTOR)	0.03
R = RAINFALL ERODIVITY (R-FACTOR)	2627
S = 2 YEAR, 6 HOUR STORM INTENSITY	11mm/hr
LS = SLOPE LENGTH/GRADIENT	1.68 (97m SLOPE @ 6% GRADE)
P = EROSION CONTROL PRACTICE (P-FACTOR)	1.3 (TYPICAL)
C = GROUND COVER (C-FACTOR)	1.0 (0% GRASS COVER)
A = DISTURBED AREA	0.77 Ha
SOIL LOSS (m ³ /yr)	103m ³ /Yr
SOIL LOSS (RUSLE METHOD) (tonnes/ha/yr)	172 tonnes/Ha/Yr
EROSION HAZARD (TABLE 4.2 BLUE BOOK)	LOW
TOTAL SITE RUN-OFF IS LESS THAN 150m ³ /Yr. BASIN/TANKS NOT REQUIRED.	

NOTE THAT ORIGINAL DRAWING IS IN COLOUR



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A	DEVELOPMENT APPLICATION	TS		KB	25.08.23
B	REVISED FOR DEVELOPMENT APPLICATION	JWS		KB	06.11.24

John Singleton

loopcreative

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ARCHITECT

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PROJECT

ELANORA HOTEL
REDEVELOPMENT
41-45 VICTORIA STREET
EAST GOSFORD NSW 2250

DRAWING TITLE

INTERNAL CIVIL WORKS
SOIL & WATER MANAGEMENT PLAN

JOB NUMBER

NL230692

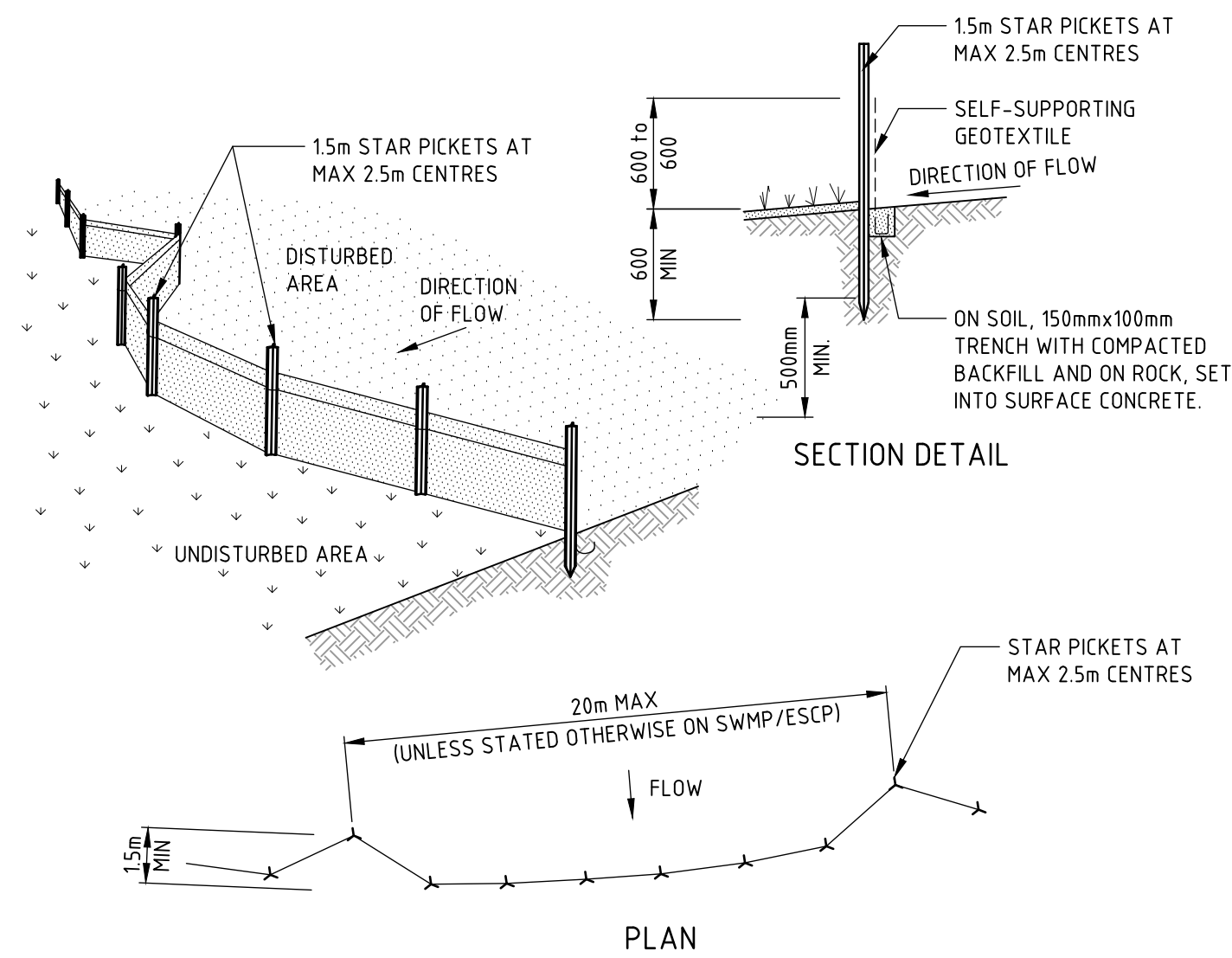
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C2.1

REVISION

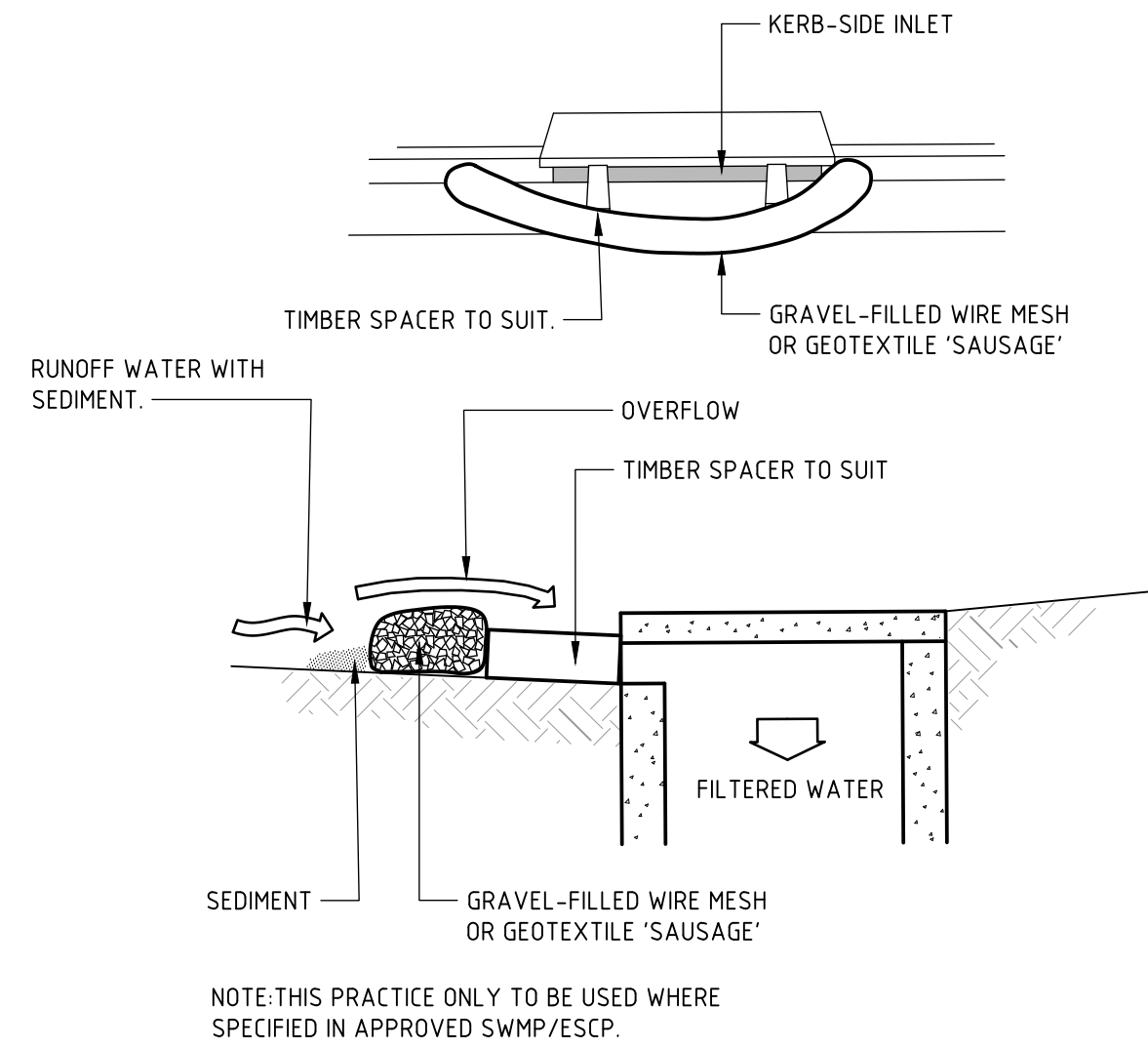
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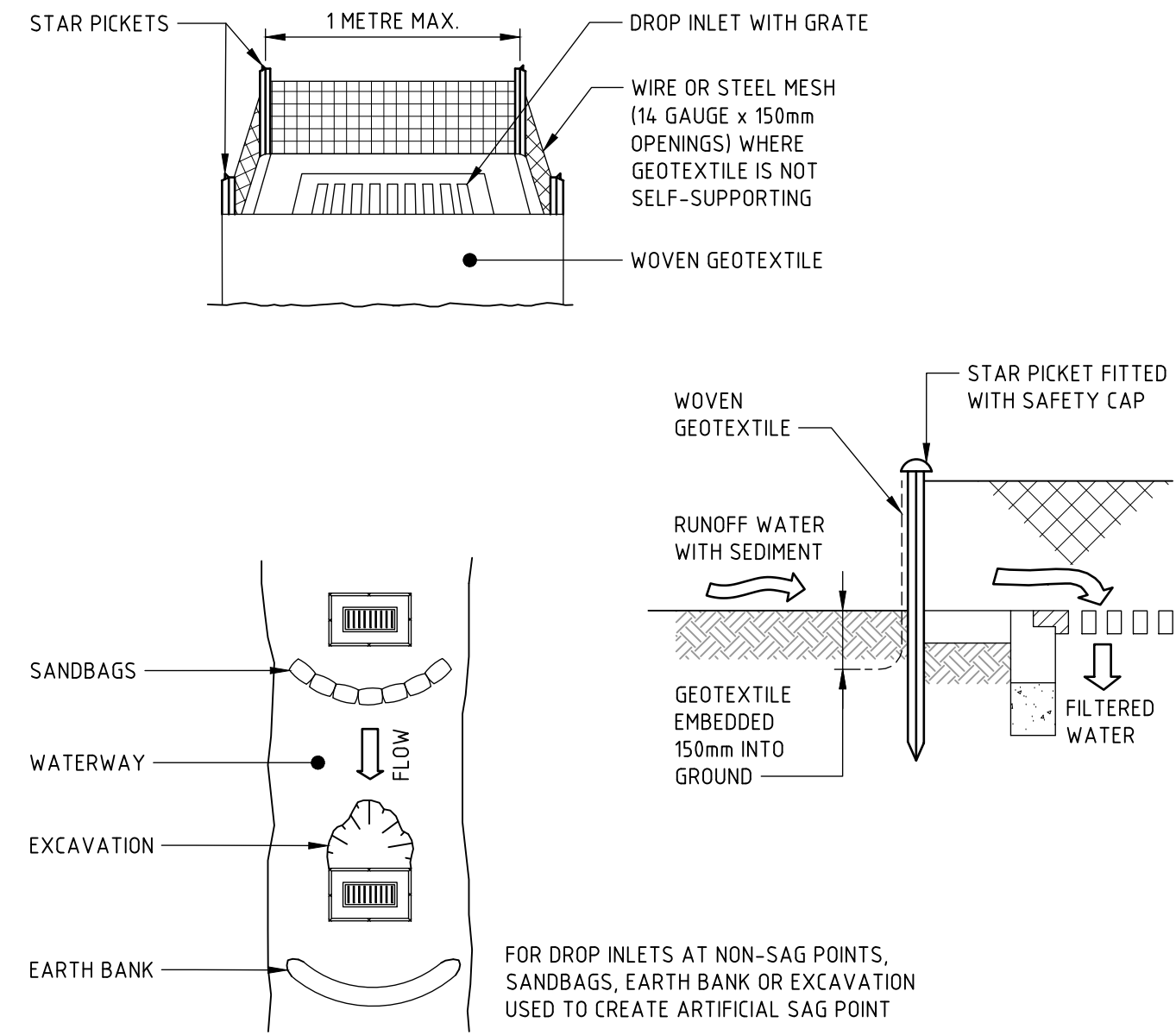
- CONSTRUCTION NOTES**
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 3. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)



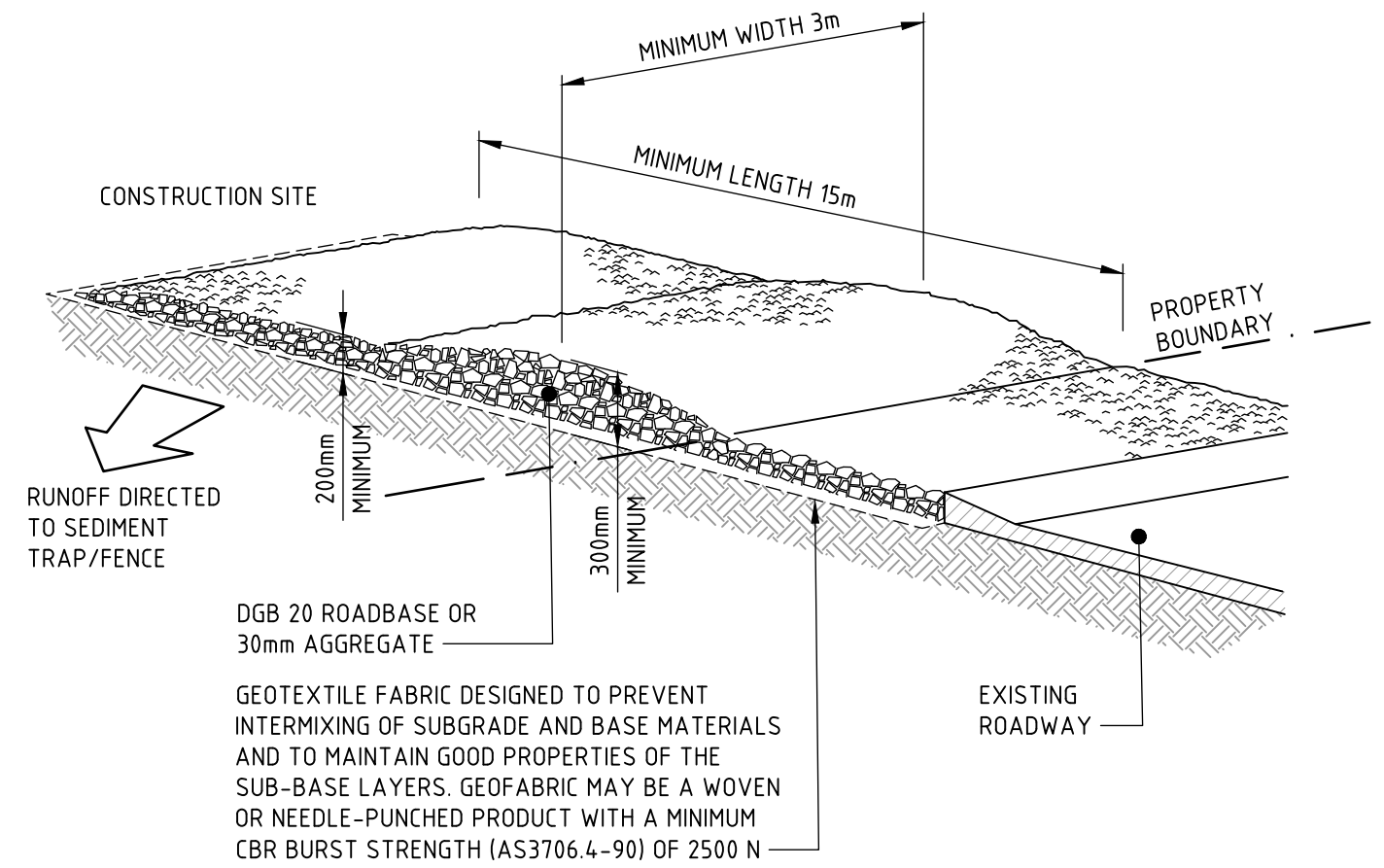
- CONSTRUCTION NOTES**
1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER (SD 6-11)



- CONSTRUCTION NOTES**
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)

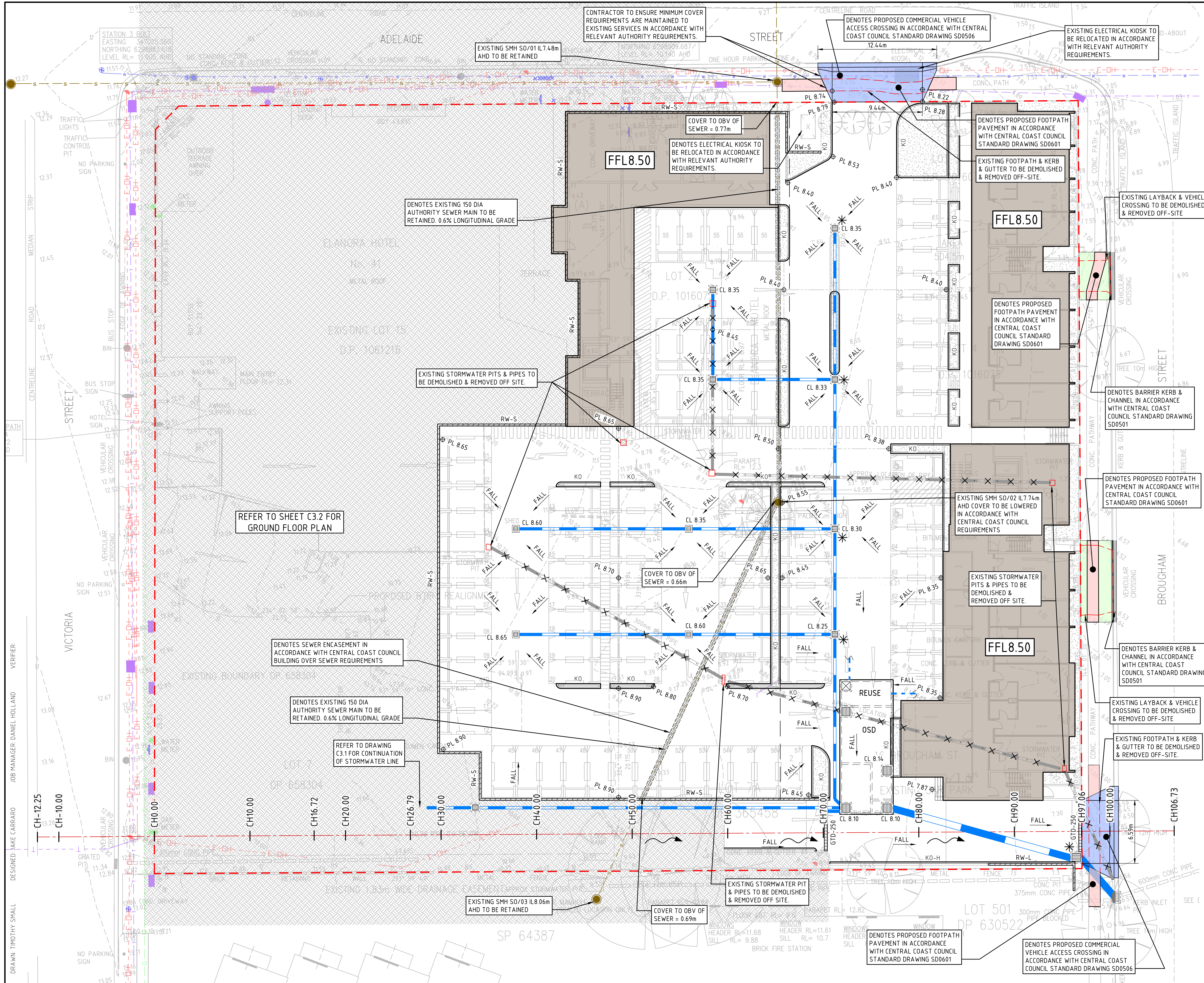


- CONSTRUCTION NOTES**
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS (SD 6-14)

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LEGEND

DENOTES SITE BOUNDARY LINE

DENOTES PROPOSED BUILDING EXTENTS, REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR DETAILS

DENOTES PROPOSED COMMERCIAL VEHICLE ACCESS CROSSING IN ACCORDANCE WITH CENTRAL COAST COUNCIL STANDARD DRAWING SD0506

DENOTES PROPOSED FOOTPATH PAVEMENT IN ACCORDANCE WITH CENTRAL COAST COUNCIL STANDARD DRAWING SD0601

DENOTES PROPOSED LANDSCAPING IN ACCORDANCE WITH CENTRAL COAST COUNCIL STANDARD SPECIFICATION

DENOTES PROPOSED FINISHED FLOOR LEVEL

DENOTES PROPOSED FINISHED SURFACE LEVEL

DENOTES PROPOSED COVER LEVEL

DENOTES EXISTING CONTOURS

DENOTES EXISTING KERB/PAVEMENT/STRUCTURE TO BE DEMOLISHED & DISPOSED OFF SITE, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS

DENOTES EXISTING KERB & CHANNEL IN ACCORDANCE WITH CENTRAL COAST COUNCIL STANDARD DRAWING SD0501

DENOTES KERB ONLY

DENOTES RETAINING WALL TO STRUCTURAL ENGINEERS DETAILS

DENOTES LOW HEIGHT LANDSCAPE RETAINING WALL (MAX 0.6m HIGH), DETAILS BY LANDSCAPE CONTRACTOR

NOTE: PROVIDE SUBSOIL DRAINAGE BEHIND ALL RETAINING WALLS & HYDRAULICALLY CONNECT TO NEAREST DOWNSTREAM STORMWATER PIT (IN S.O.P.). REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS

DENOTES PROPOSED STORMWATER PIT. NOTE: ON-GRADE PITS ARE TO HAVE GRATES SET ON-GRADE TO MATCH SURFACE GRADING.

DENOTES STORMWATER PIT TO BE FITTED WITH ENVIROPOD FILTER INSERTS OR APPROVED EQUIVALENT. INSERTS TO BE INSTALLED & MAINTAINED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.

DENOTES GRATED TRENCH DRAIN & WIDTH

DENOTES BELOW GROUND REUSE / ON-SITE DETENTION TANK. REUSED TANK TO HAVE 20KL CAPACITY, HARVESTED RAINWATER TO BE USED FOR IRRIGATION & TOILET FLUSHING. REFER TO DETAIL

DENOTES PROPOSED STORMWATER LINE

DENOTES EXISTING STORMWATER PIPE TO BE REMOVED

DENOTES 100 uPVC DOWNPIPE LINE, (UNLESS DIAMETER NOTED OTHERWISE), LAID & JOINTED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS. MINIMUM GRADE TO BE 1% WITH 300mm MIN COVER

DENOTES OVERLAND FLOW PATH

DENOTES SEWER ENCASEMENT IN ACCORDANCE WITH CENTRAL COAST COUNCIL BUILDING OVER SEWER REQUIREMENTS

DENOTES EASEMENT LINE, REFER TO SURVEY FOR DETAILS

DENOTES APPROXIMATE LOCATION OF EXISTING (OVERHEAD) ELECTRICITY LINE

DENOTES APPROXIMATE LOCATION OF EXISTING GAS MAIN

DENOTES APPROXIMATE LOCATION OF EXISTING TELECOMMUNICATION LINE

DENOTES APPROXIMATE LOCATION OF EXISTING WATER MAIN

DENOTES APPROXIMATE LOCATION OF EXISTING SEWER MAIN

LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY & MAY NOT BE COMPLETE. THE BUILDER IS RESPONSIBLE FOR LOCATING EXISTING INFRASTRUCTURE (CULVERTS, PITS, PIPES, SERVICES, INVERT & COVER LEVELS ETC) PRIOR TO COMMENCING CONSTRUCTION.

THE BUILDER SHALL ALLOW TO MODIFY ALL EXISTING SERVICE COVERS TO MATCH THE NEW PAVEMENTS, IN ACCORDANCE WITH THE RELEVANT AUTHORITIES REQUIREMENTS.

PROVIDE TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH STATE & FEDERAL STATUTORY REQUIREMENTS AND LOCAL COUNCIL SPECIFICATIONS/REQUIREMENTS

NOTE: ALL LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD). ORIGIN OF LEVELS SSM 98633, RL 6.937

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A	DEVELOPMENT APPLICATION	TS		KB	25.08.23
B	REVISED FOR DEVELOPMENT APPLICATION	JWS		KB	06.11.24

CLIENT

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ARCHITECT

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PROJECT

ELANORA HOTEL REDEVELOPMENT

41-45 VICTORIA STREET

EAST GOSFORD NSW 2250

DRAWING TITLE

INTERNAL CIVIL WORKS

LOWER GROUND FLOOR

WATER CYCLE MANAGEMENT

& LEVELS PLAN

JOB NUMBER

NL230692

DRAWING NUMBER

C3.1

REVISION

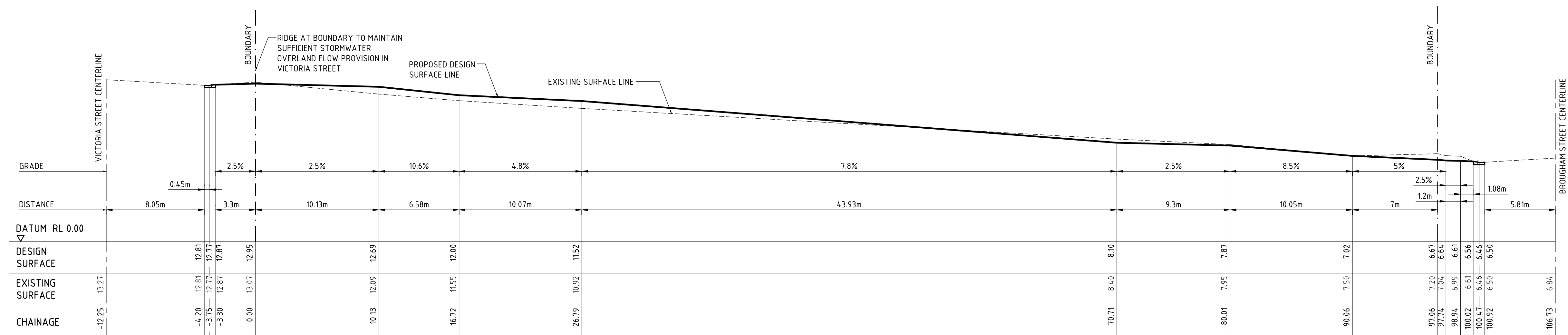
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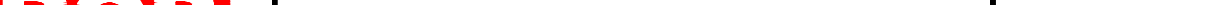
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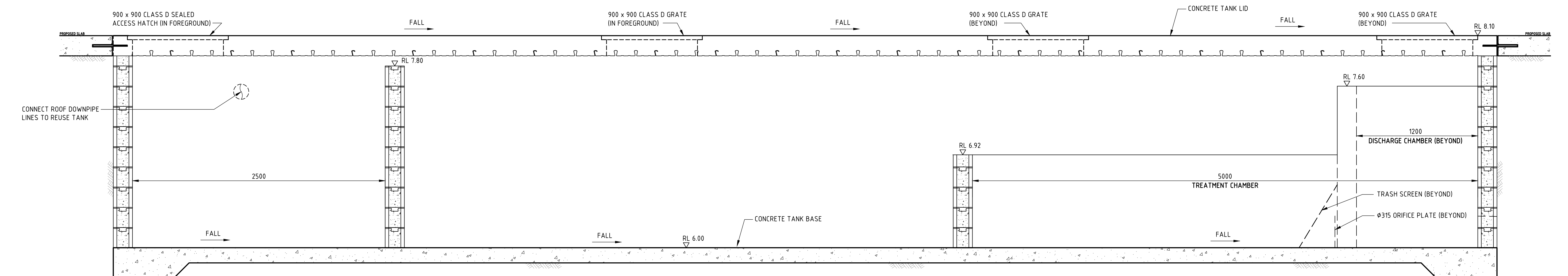


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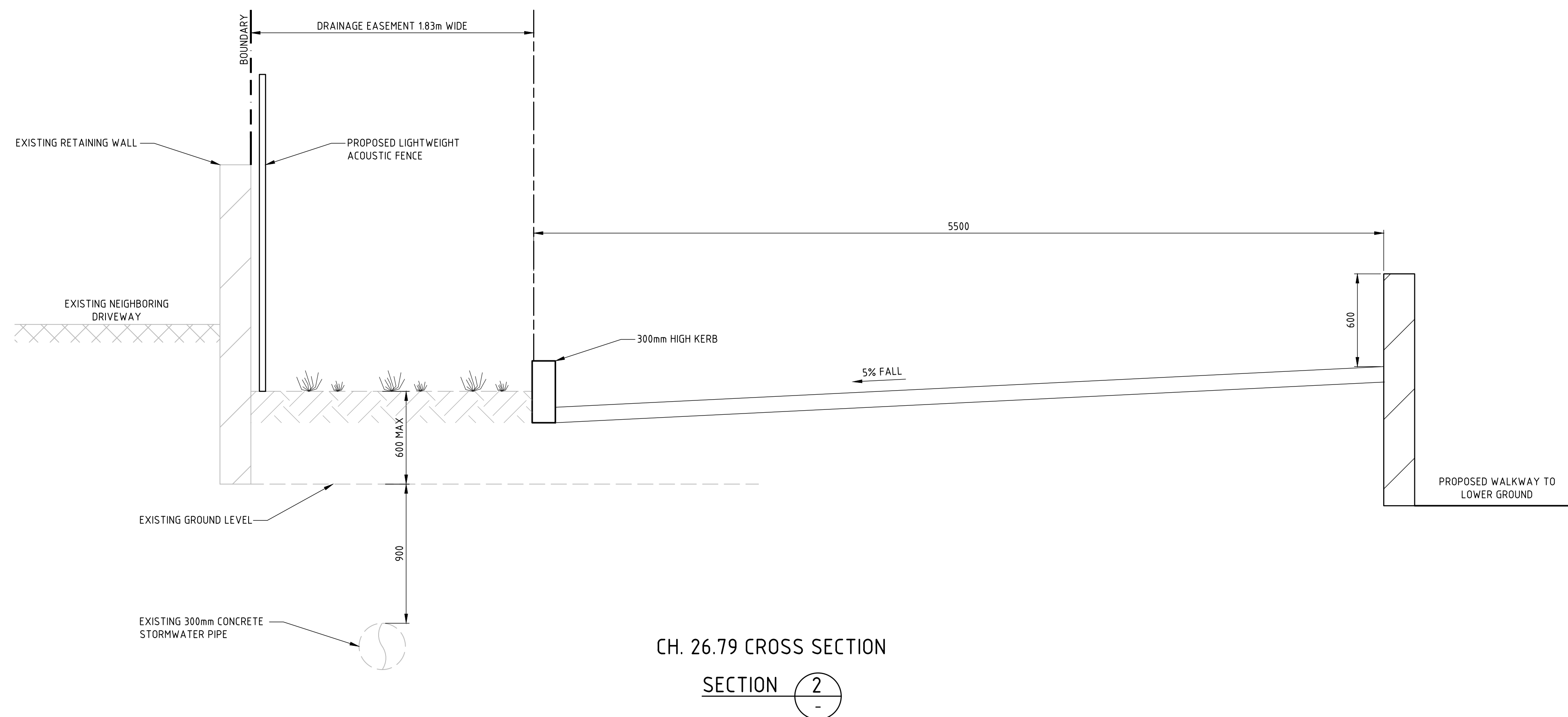
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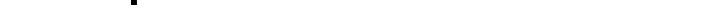
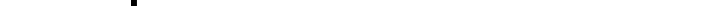


NOTE: REFER TO STRUCTURAL ENGINEERS
DRAWINGS FOR TANK STRUCTURE DETAILS

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