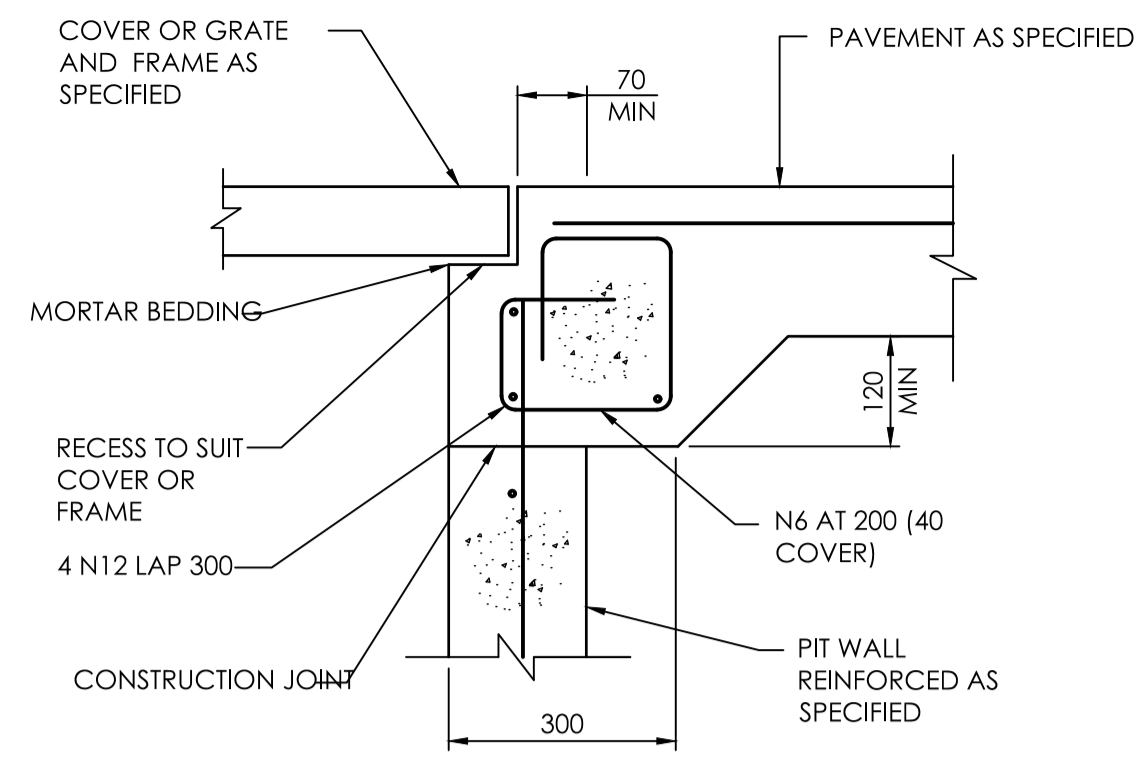


MINIMUM INTERNAL PIT DIMENSIONS

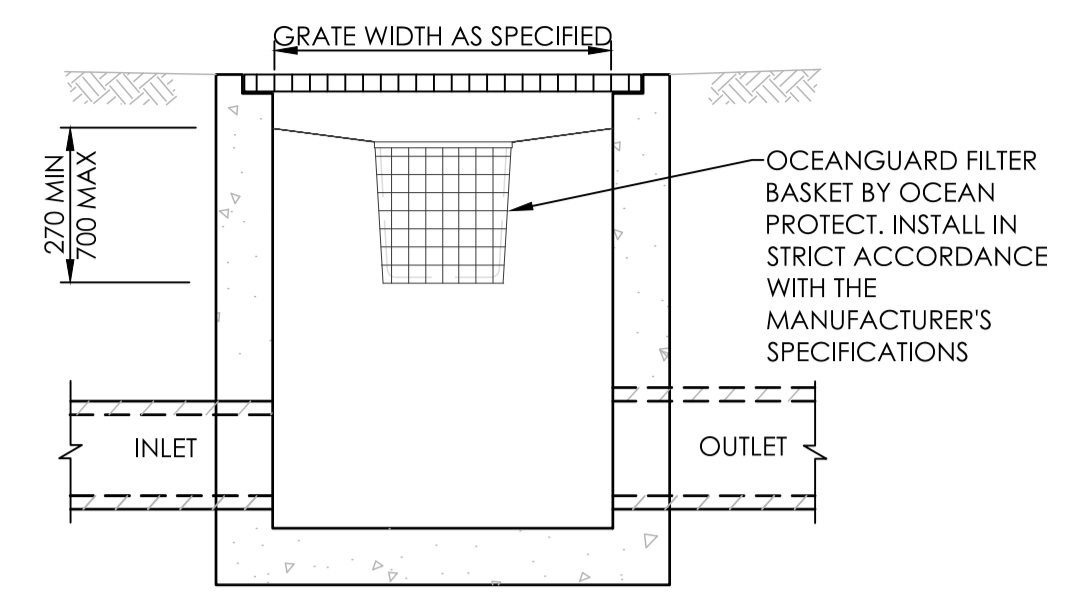
"D"	"X"	"Y"
D < 600	450	450*
D < 900	600	600*
D < 1200	600	900
D > 1200	900	900

NOTE
PITS DENOTED * SHALL BE USED ONLY WHERE SPECIFIED IN DRAINAGE SCHEDULE OR ON PLAN.

SECTION 1
SCALE 1:20

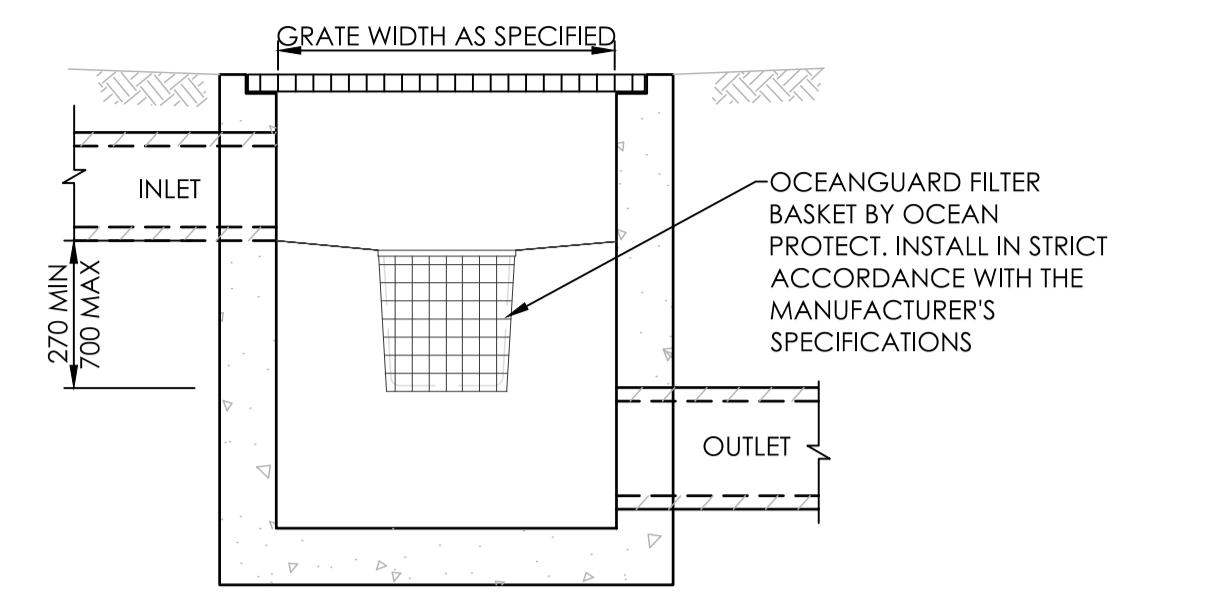


PIT EDGE DETAIL "A"
SCALE 1:10



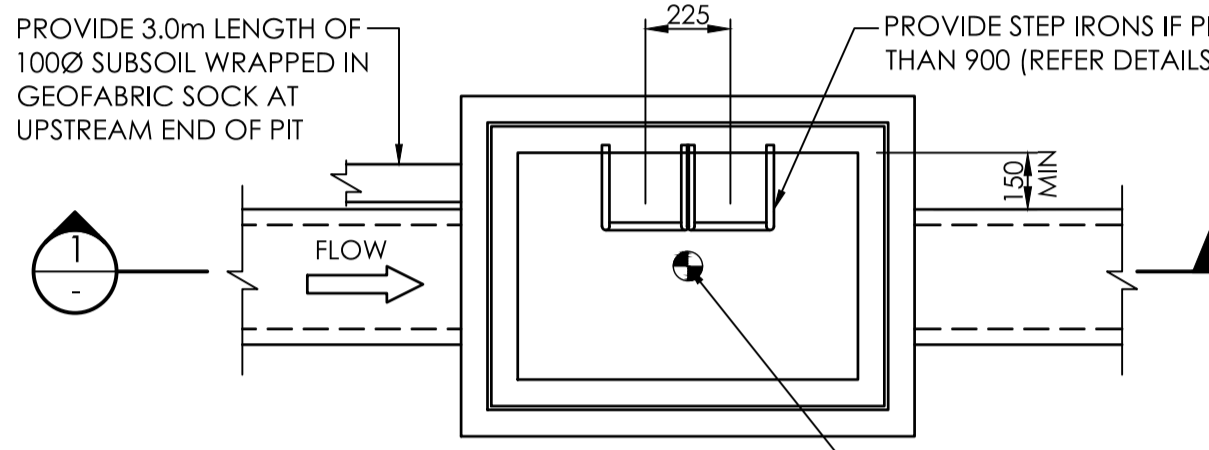
TYPICAL OCEANGUARD ARRANGEMENT DETAIL - SURFACE INLET TREATMENT

NOT TO SCALE
NOTE: REFER TO MANUFACTURER'S DRAWINGS FOR OCEANGUARD FILTER ARRANGEMENT AND COMPONENTS DETAILS

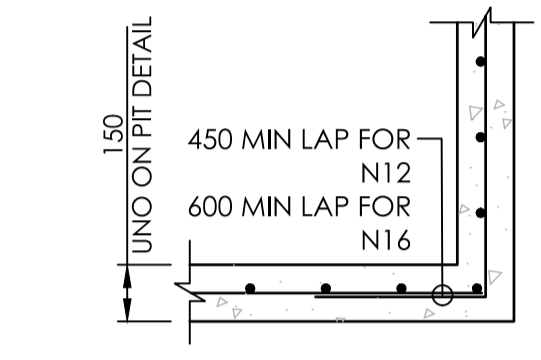


TYPICAL OCEANGUARD ARRANGEMENT DETAIL - DOWNPIPE CONNECTION / DROP PIT

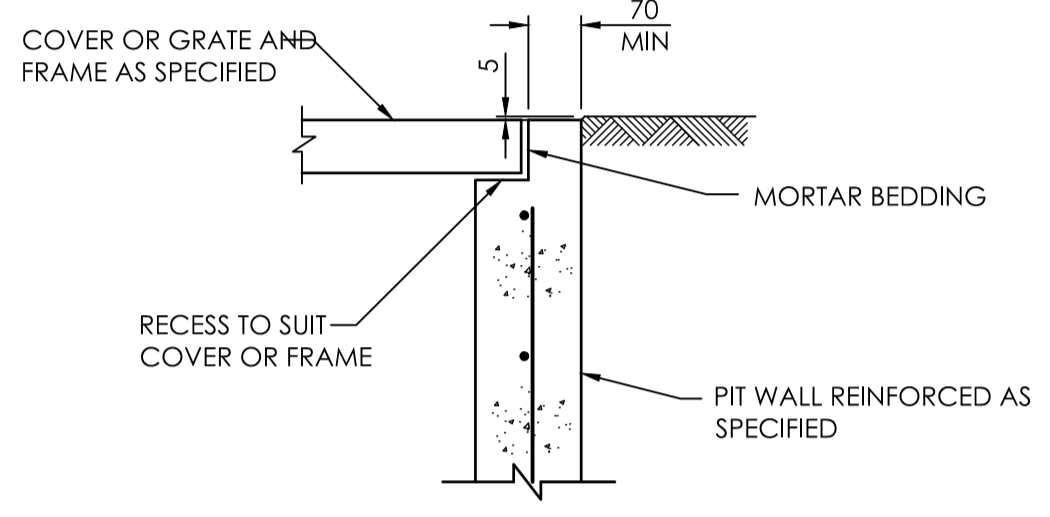
NOT TO SCALE
NOTE: REFER TO MANUFACTURER'S DRAWINGS FOR OCEANGUARD FILTER ARRANGEMENT AND COMPONENTS DETAILS



PLAN

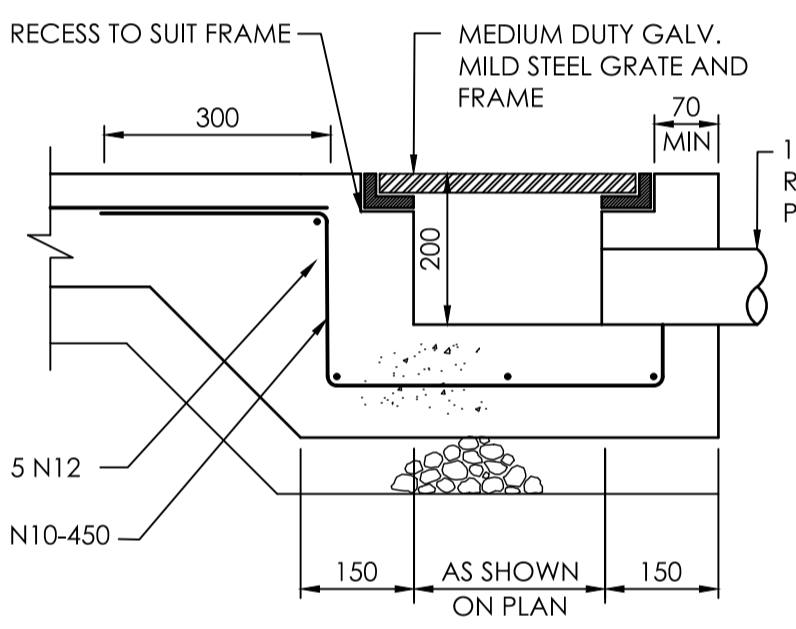


TYPICAL PIT CORNER DETAIL
SCALE 1:20

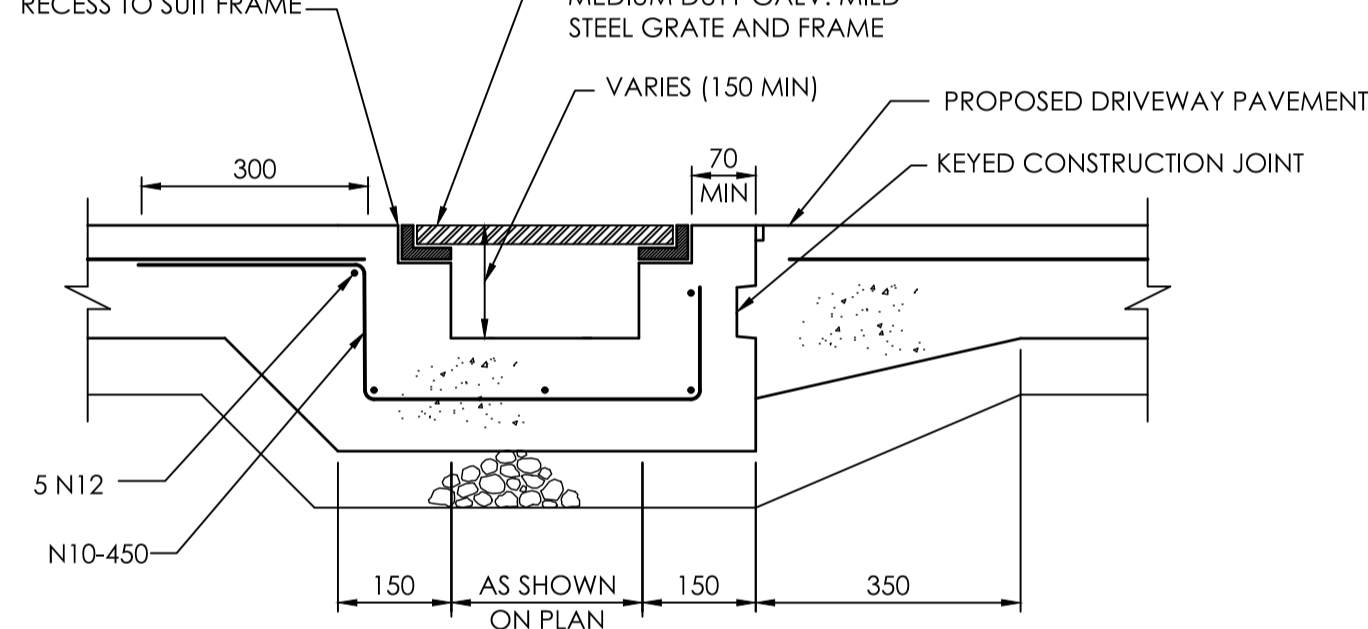


PIT EDGE DETAIL "C"
SCALE 1:10

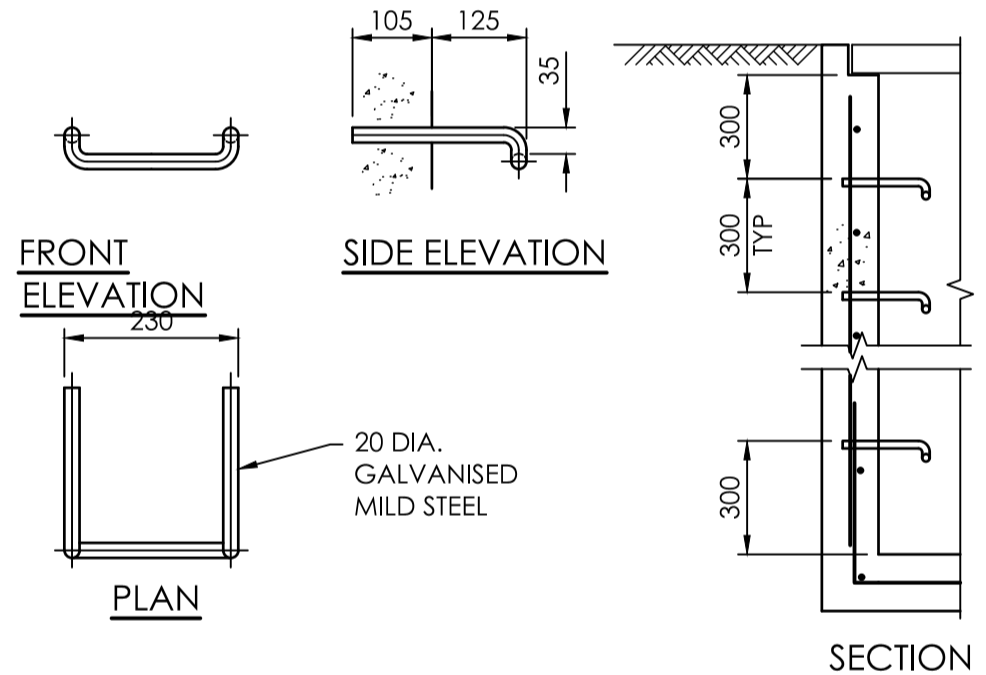
SURFACE INLET/JUNCTION PIT 'TYPE A'
SCALE 1:20



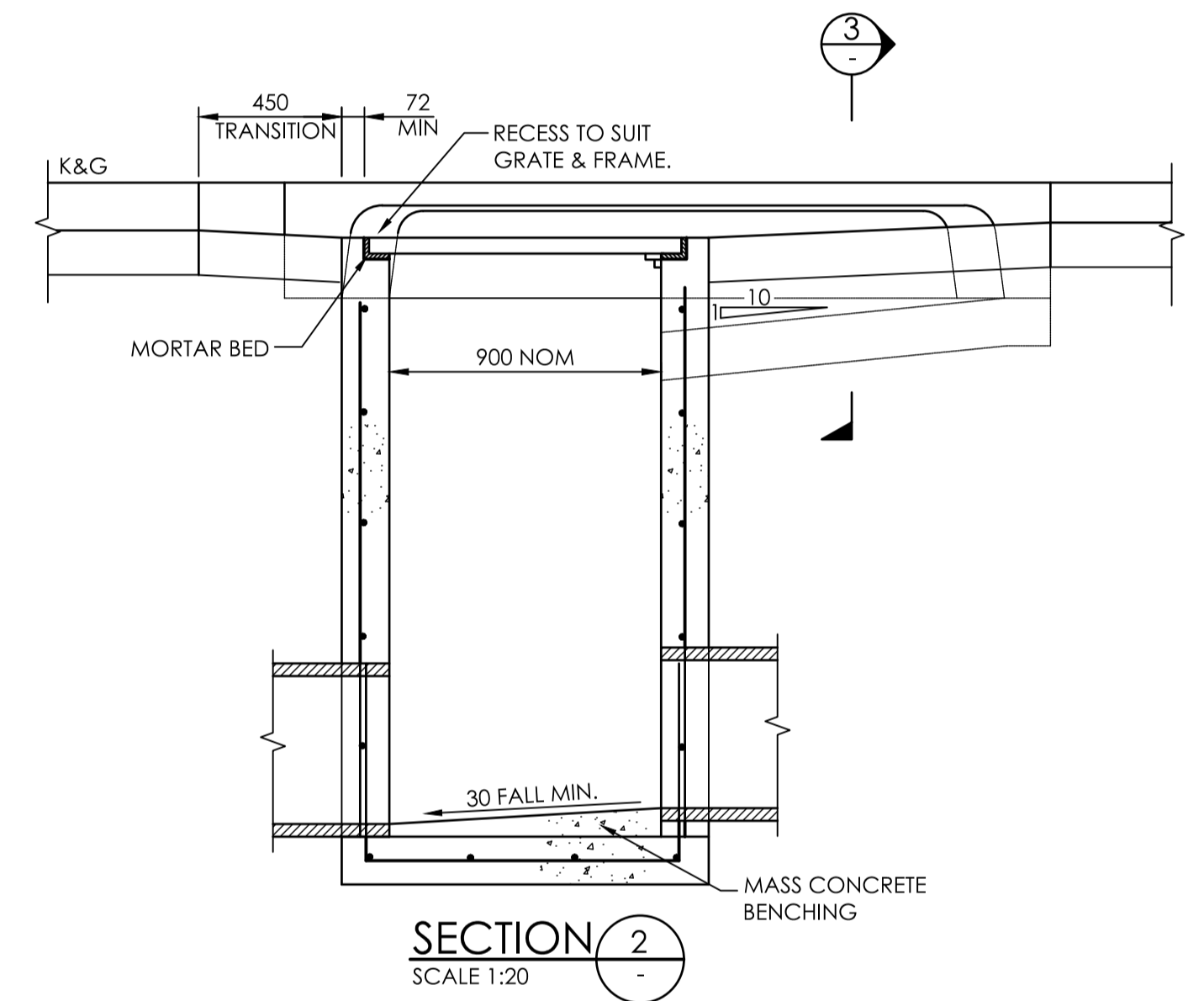
GRADED DRAIN SECTION
SCALE 1:10



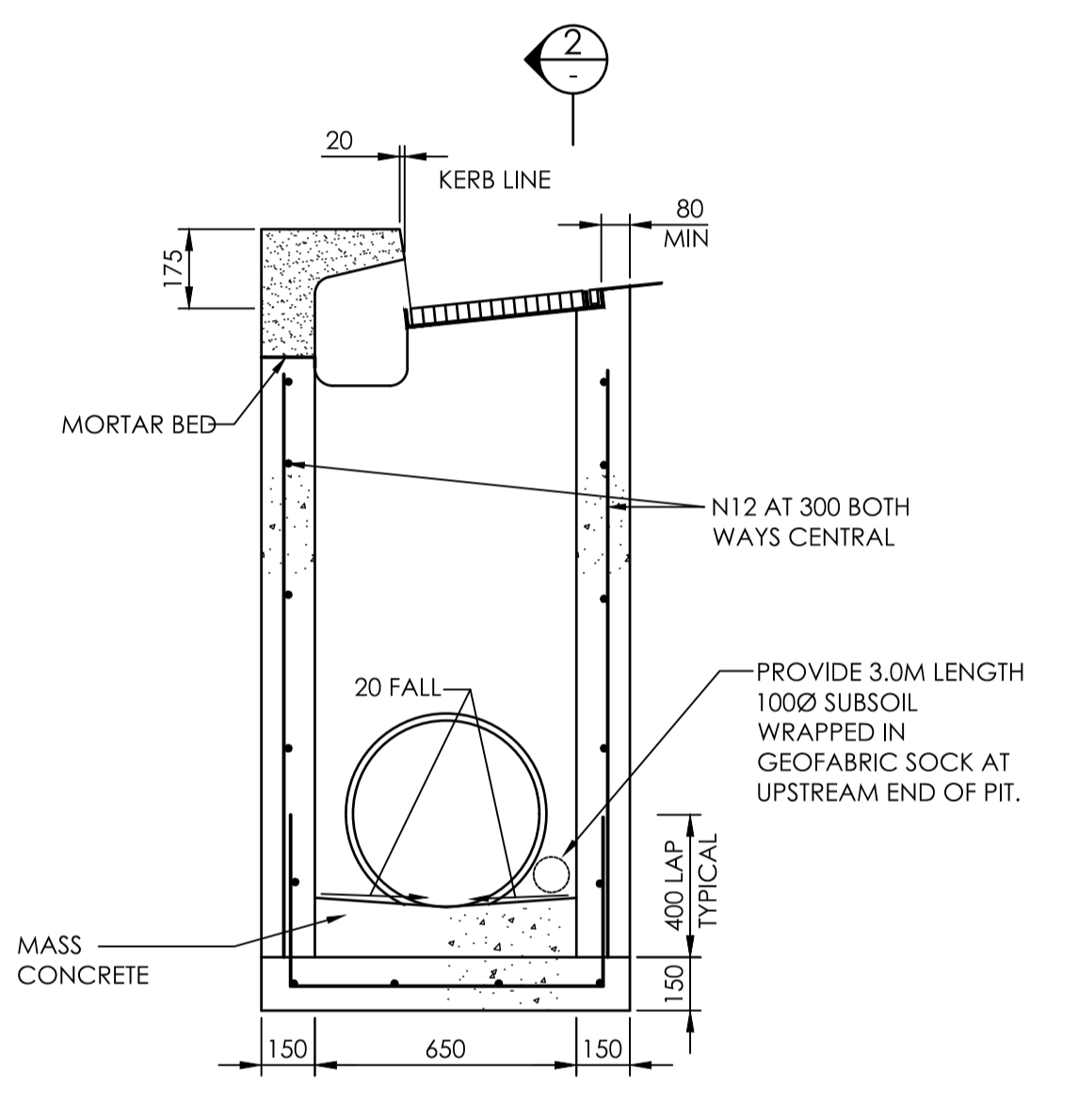
GRADED DRAIN TYPE 'A'
SCALE 1:10



STEP IRON DETAIL
N.T.S.



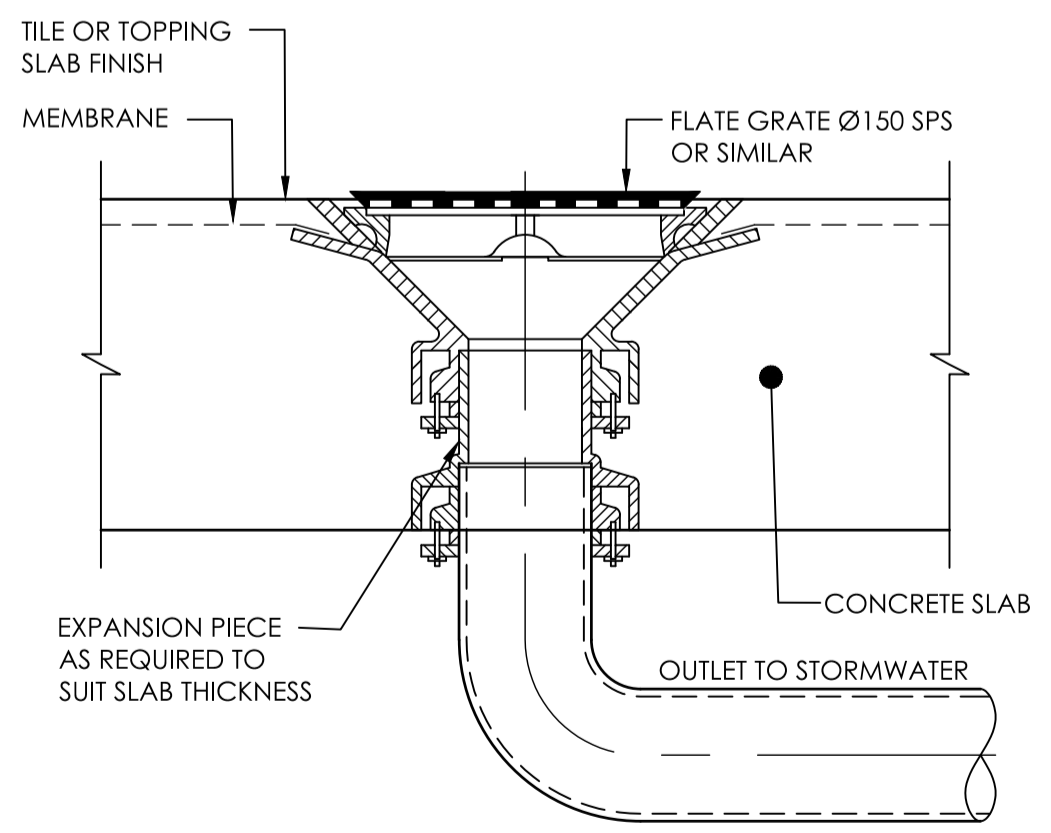
SECTION 2
SCALE 1:20



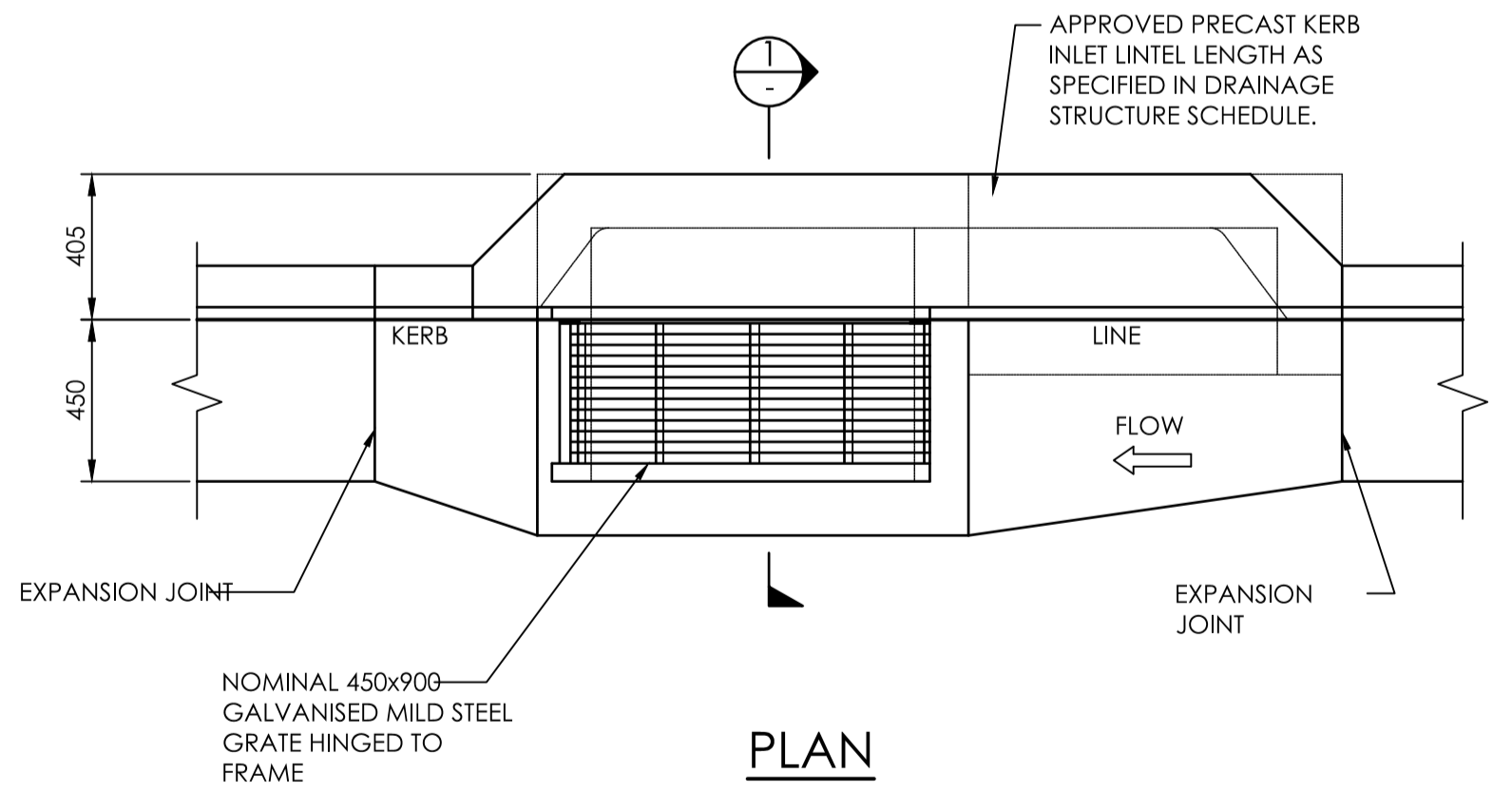
SECTION 1
SCALE 1:20

SCHEDULE OF STORMWATER DRAINAGE STRUCTURES

PIT CLEAR INTERNAL DIMENSION SIZE AND TYPE	STRUCTURE NUMBER	NOTES
1.8m LINTEL KERB INLET PIT TYPE 'C' WITH CLASS 'D' GRATE AND FRAME	A7	
900 x 900 SURFACE INLET PIT TYPE 'A' WITH CLASS B GRATE AND FRAME	A5, A6, B1, B2, B3, B4, B5, B6, C4, A8, E1	PIT B2, B4 AND C4 TO BE CONSTRUCTED WITH OCEAN GUARD FILTER BASKET, SURFACE INLET TREATMENT AS PER DETAILS
900 x 900 SURFACE INLET PIT TYPE 'A' WITH CLASS D GRATE AND FRAME	C2, C5	PITS C2, C5 TO BE CONSTRUCTED WITH OCEAN GUARD FILTER BASKET. PROVIDE DROP PIT ARRANGEMENT FOR C2 AND SURFACE INLET TREATMENT FOR PIT C5. REFER TO DETAILS
900 x 900 JUNCTION PIT TYPE 'A' WITH CLASS B GRATE AND FRAME	A4, C1, E2	
600 x 600 SURFACE INLET PIT TYPE 'A' WITH CLASS B GRATE AND FRAME	A1, A2, A3, D1, G1	
600 x 600 SURFACE INLET PIT TYPE 'A' WITH CLASS D GRATE AND FRAME	F1	
2250Ø STORMWATER MANHOLE	B7, C6	REFER TO OCEAN PROTECT DRAWINGS AND SPECIFICATION FOR CONFIGURATION AND DETAILS
EXISTING COUNCIL PIT TO BE INVESTIGATED FURTHER AT DETAIL DESIGN STAGE	A9	COUNCIL PIT NO. SPP50073 (INFORMATION FROM NORTHERN BEACHES COUNCIL E-SERVICES)

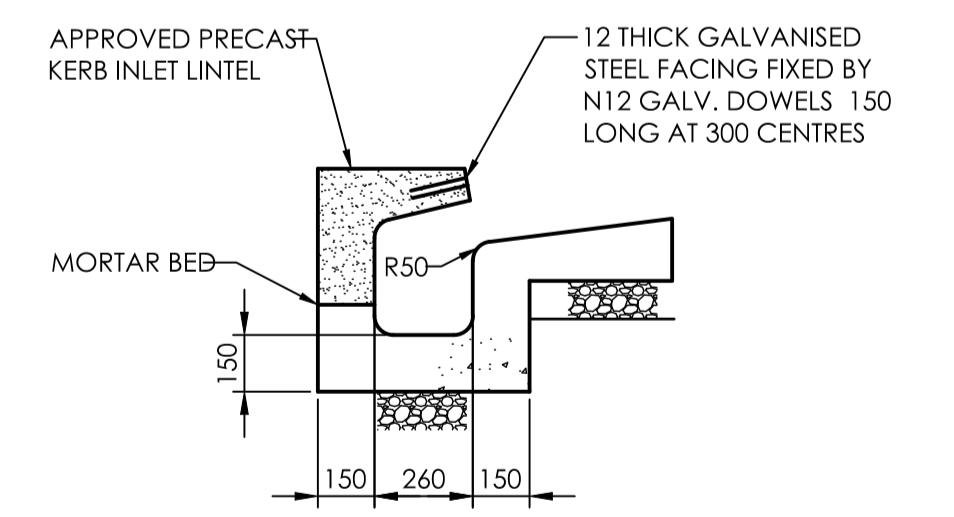


RAINWATER OUTLET DETAIL
SCALE 1:10



PLAN

KERB INLET PIT TYPE "C"
SCALE 1:20



SECTION 3
SCALE 1:20

ISSUE	AMENDMENT	DATE	DRAWN	APP
A	ISSUE FOR DEVELOPMENT APPLICATION	17.04.24	JL	NP

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ARCHITECT
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CIVIL CONSULTANT
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CONSULTANTS

PROJECT
THOMPSON HEALTH BASSETT PROPOSED AGED CARE FACILITY
23 & 25 BASSETT STREET,
MONA VALE, N.S.W. 2103

NORTH POINT

DRAWING TITLE
DETAILS - SHEET 1

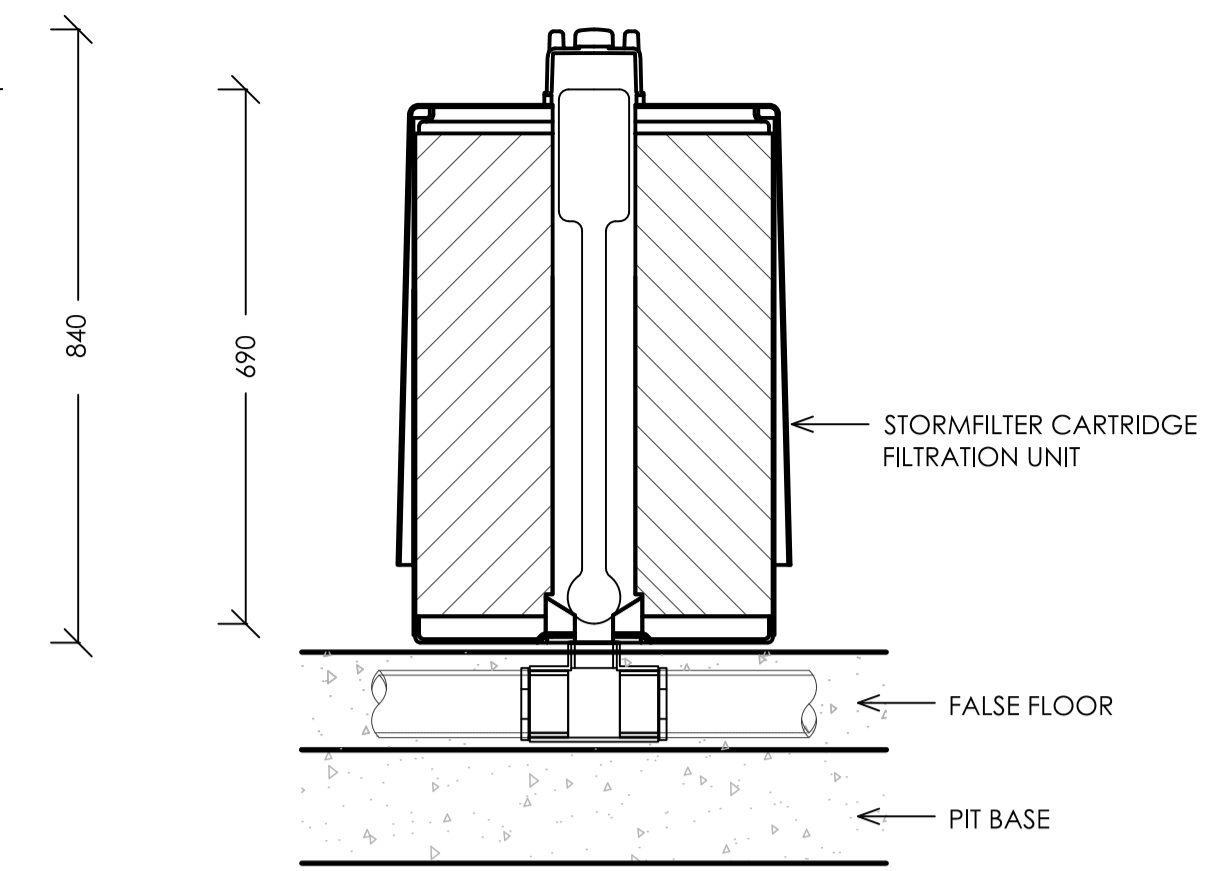
DRAWN	DATE	SCALE	A1	QA CHECK	DATE
JL	APRIL 24	1:20			

DESIGNED	PROJECT NO.	DRAWING NO.	ISSUE
NP	230127	C1.05	A

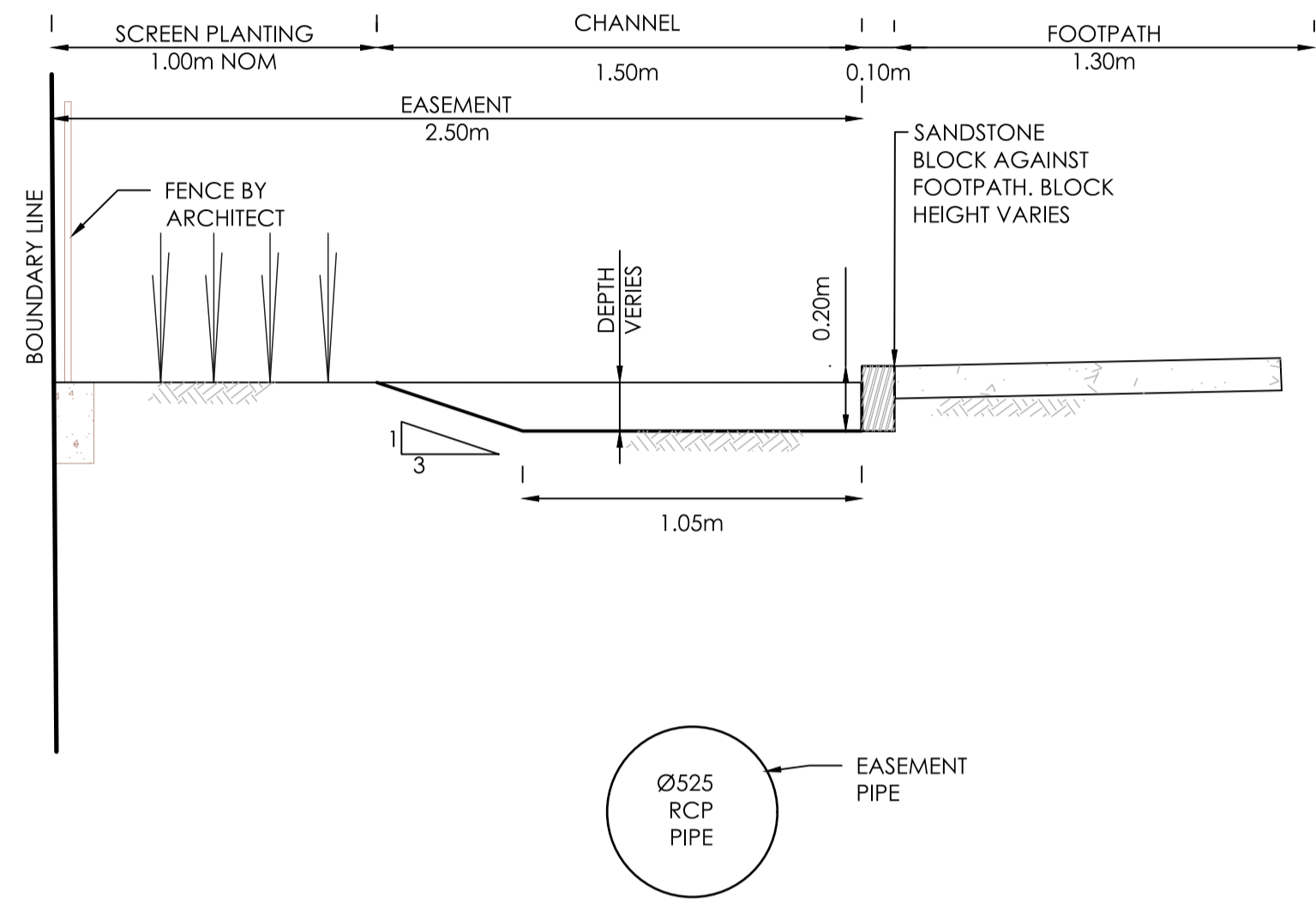
STORMFILTER DESIGN TABLE

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER THE MANUFACTURER'S CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 178mm.

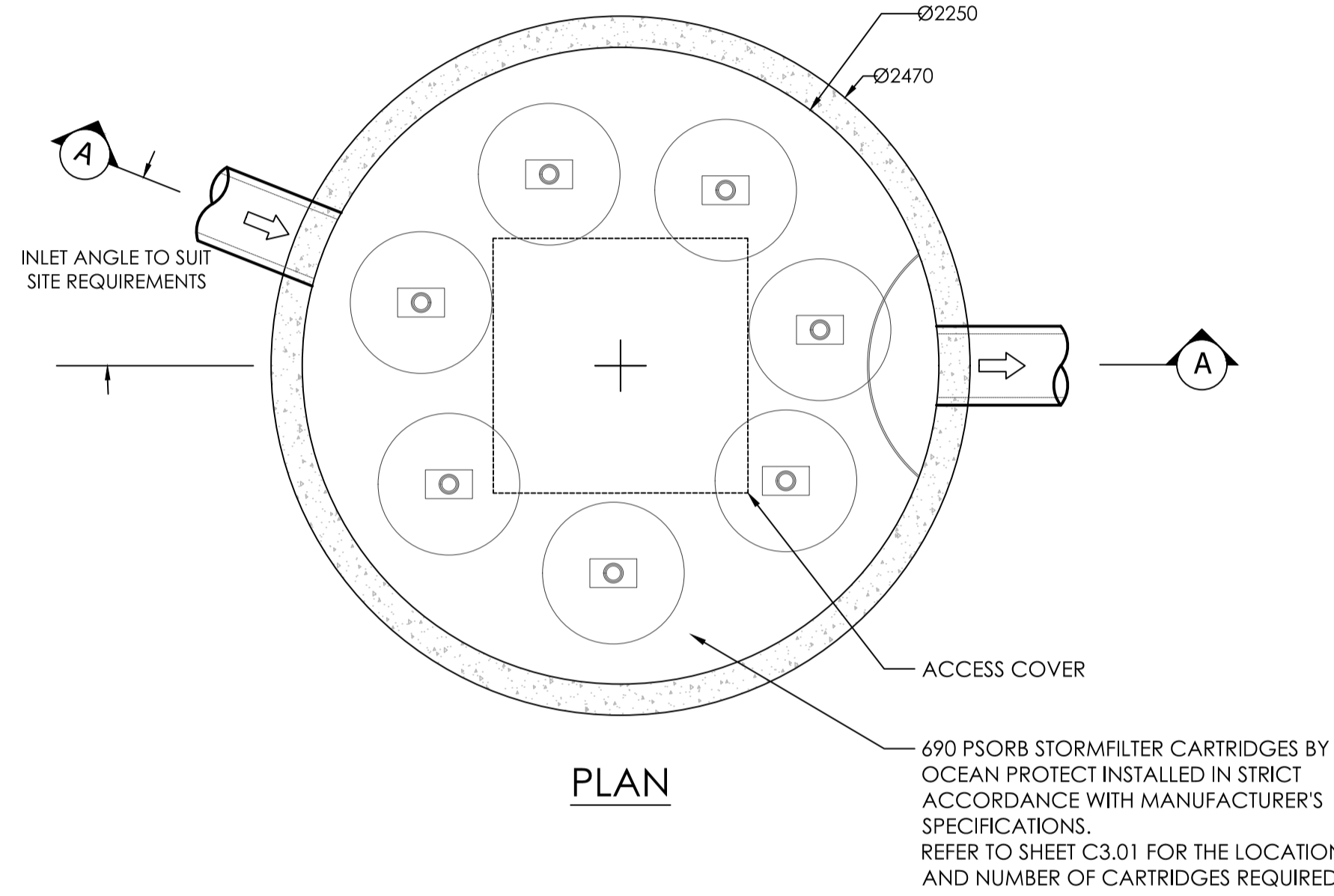
CARTRIDGE NAME / SIPHON HEIGHT (mm)	690
CARTRIDGE PHYSICAL HEIGHT (mm)	840
TYPICAL WEIR HEIGHT [H] (mm)	920
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)	0.9



STORMFILTER CARTRIDGE DETAIL

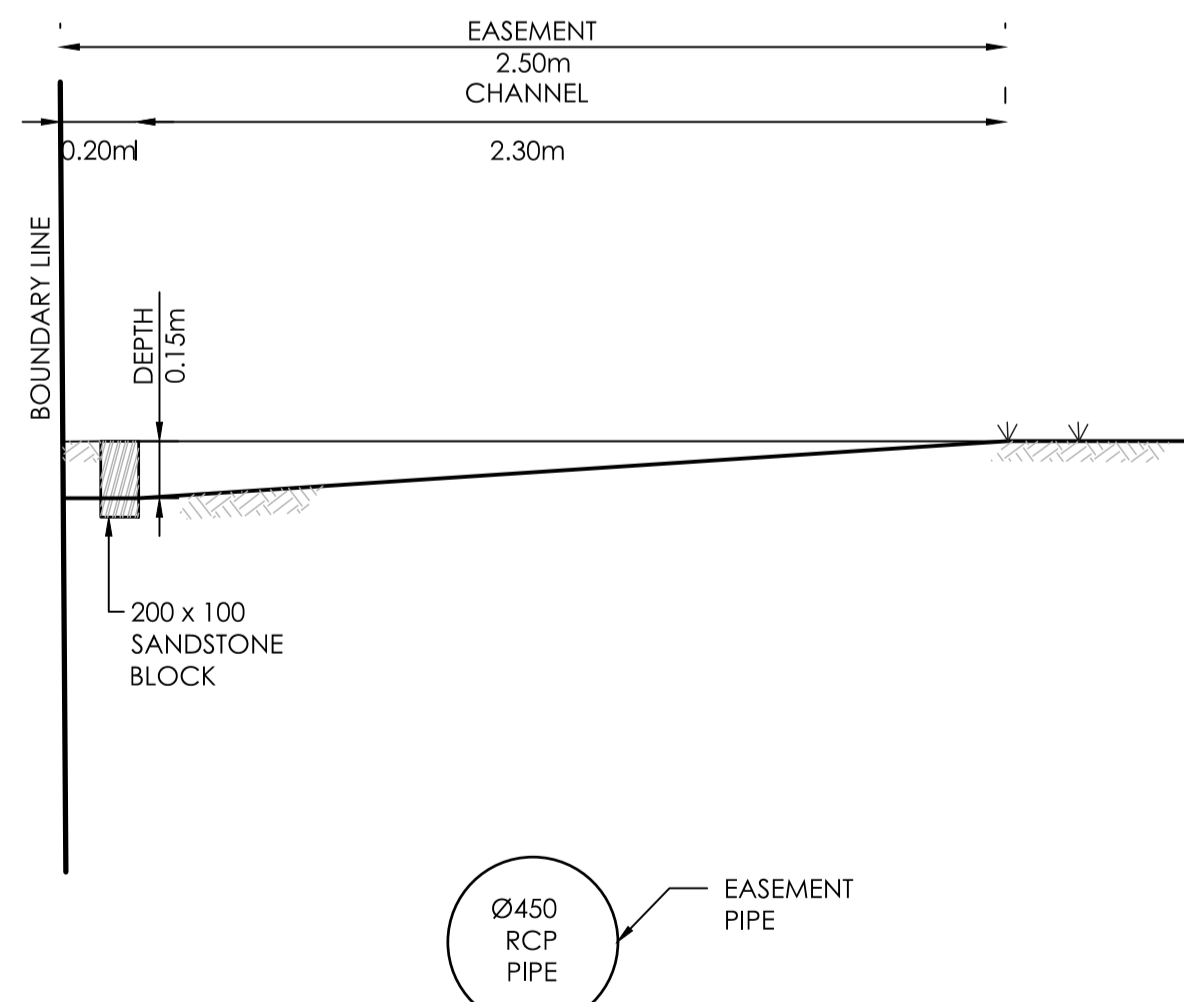


TYPICAL EASEMENT CHANNEL ALONG EASTERN BOUNDARY SECTION
SCALE 1:20

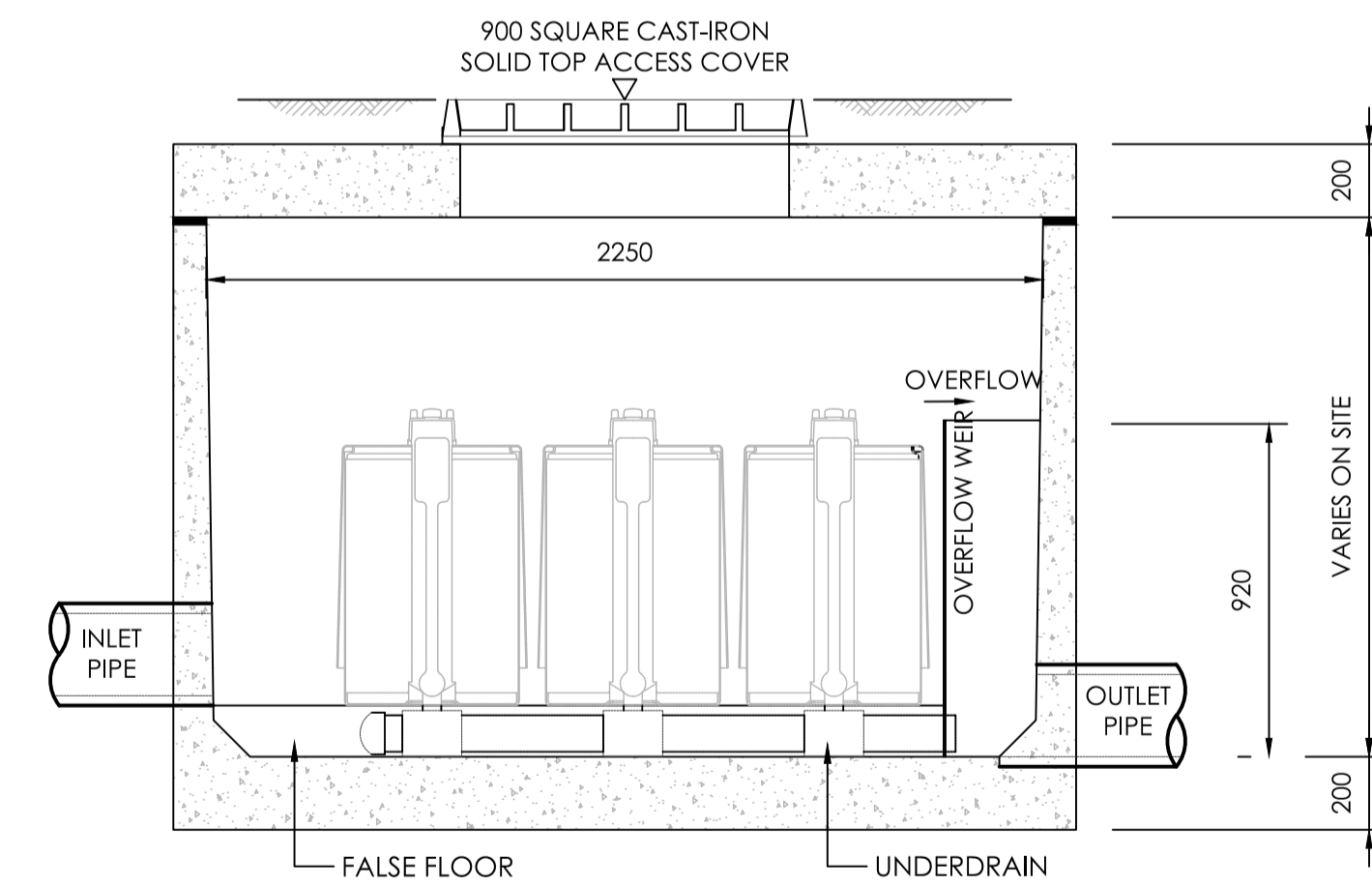


PLAN

690 PSORB STORMFILTER CARTRIDGES BY OCEAN PROTECT INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. REFER TO SHEET C3.01 FOR THE LOCATION AND NUMBER OF CARTRIDGES REQUIRED

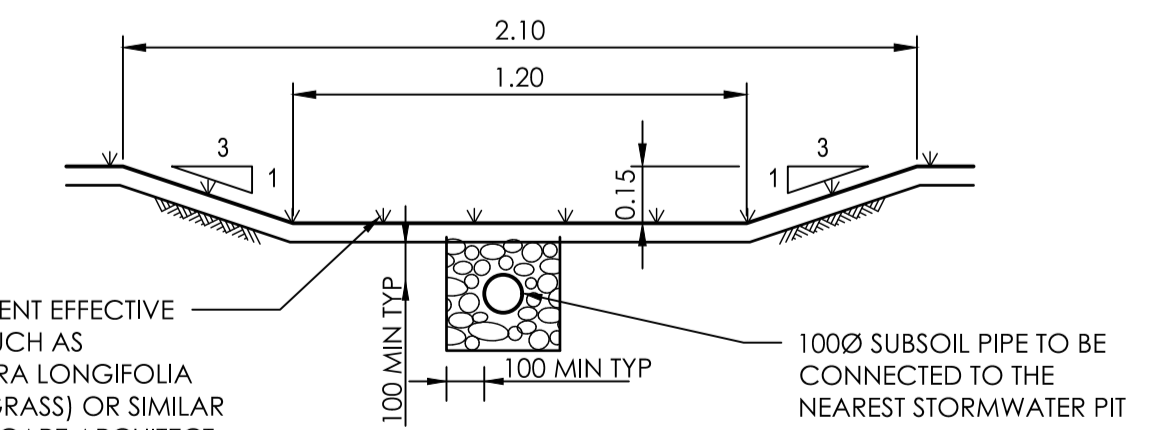


TYPICAL EASEMENT CHANNEL ALONG SOUTH BOUNDARY SECTION
SCALE 1:20



SECTION A-A

TYPICAL CARTRIDGE STORMFILTER SYSTEM MANHOLE DETAIL
NOT TO SCALE



TYPICAL SECTION THROUGH SWALE
N.T.S.

ISSUE	AMENDMENT	DATE	DRAWN	APP

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THOMPSON HEALTH CARE

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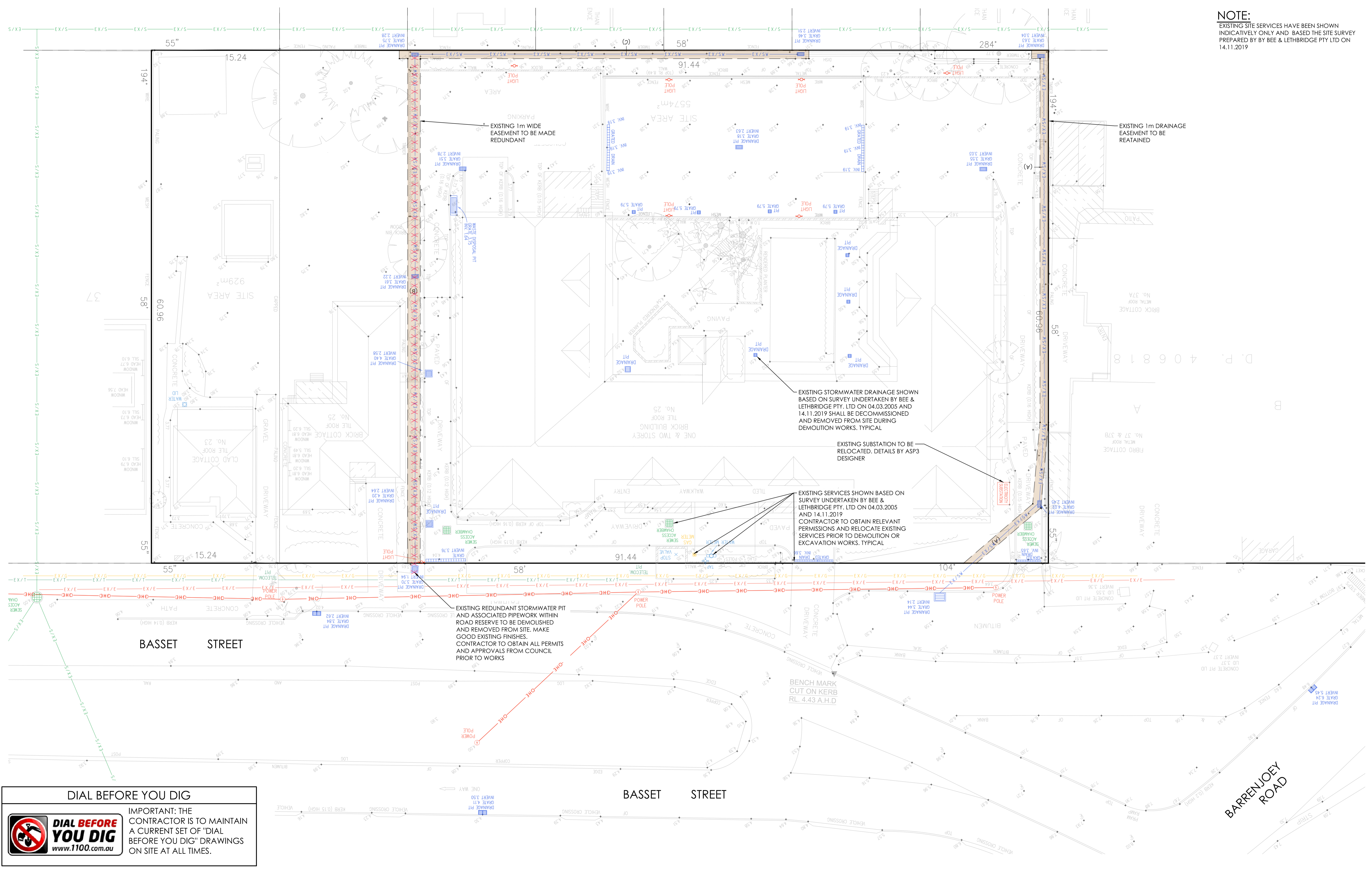
CIVIL CONSULTANT
ENTECC CONSULTANTS

PROJECT
THOMPSON HEALTH BASSETT PROPOSED AGED CARE FACILITY
23 & 25 BASSETT STREET,
MONA VALE, N.S.W. 2103

NORTH POINT

DRAWING TITLE DETAIL - SHEET 2					
DRAWN JL	DATE APRIL 24	SCALE N/A	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 230127	DRAWING NO. C1.06	ISSUE A		

NOTE:
 EXISTING SITE SERVICES HAVE BEEN SHOWN INDICATIVELY ONLY AND BASED THE SITE SURVEY PREPARED BY BEE & LETHBRIDGE PTY LTD ON 14.11.2019



DIAL BEFORE YOU DIG

DIAL BEFORE YOU DIG
 www.1100.com.au

IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

A	ISSUE FOR DEVELOPMENT APPLICATION	17.04.24	JL	NP	
	AMENDMENT				

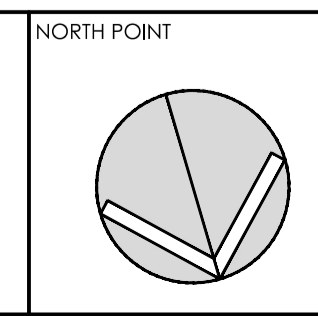
CLIENT
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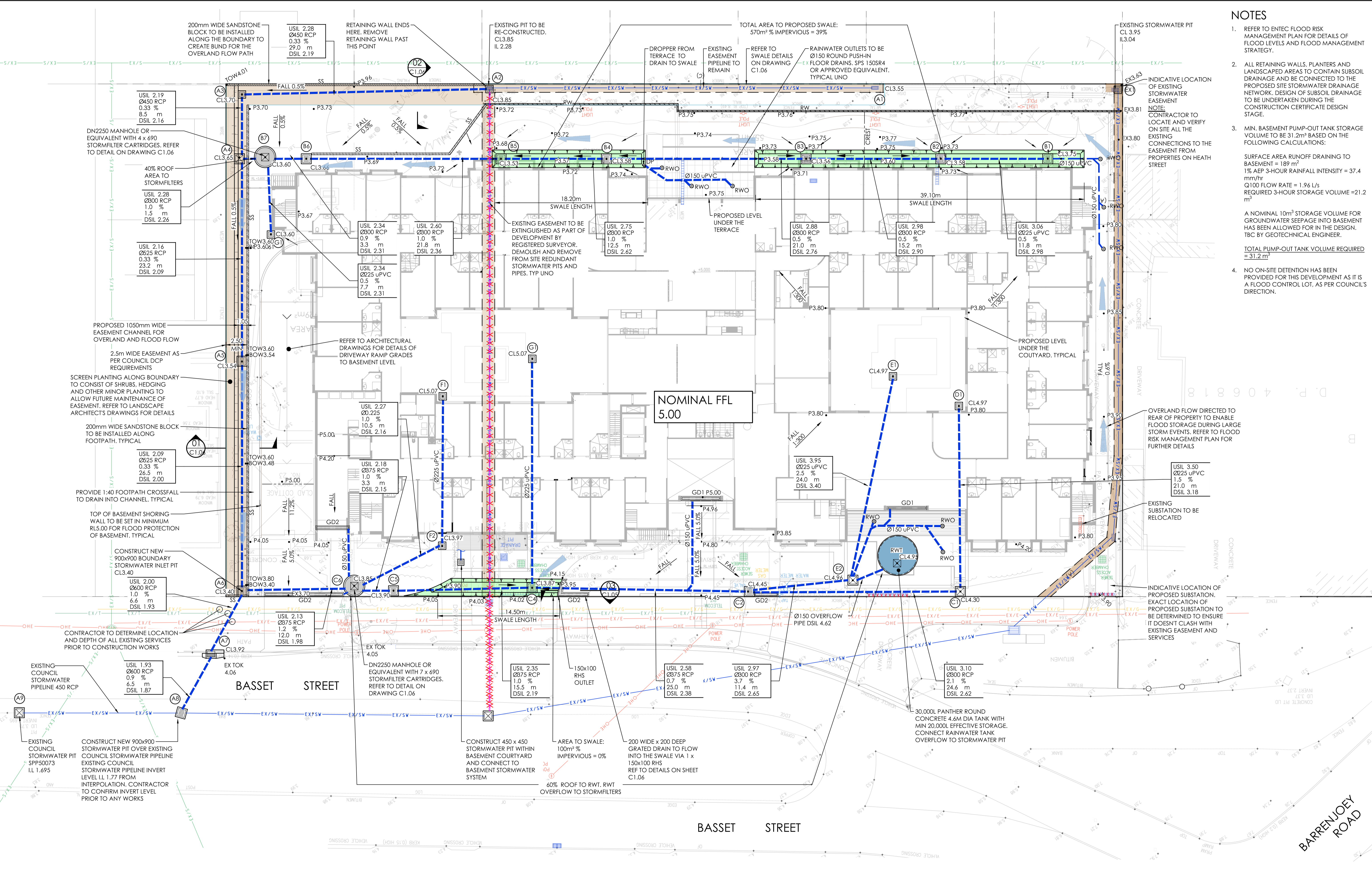
CIVIL CONSULTANT
ENTEC CONSULTANTS

PROJECT
THOMPSON HEALTH BASSETT PROPOSED AGED CARE FACILITY
 23 & 25 BASSETT STREET,
 MONA VALE, N.S.W. 2103



DRAWING TITLE
EXISTING SERVICES AND SURVEY PLAN

DRAWN JL	DATE APRIL 24	SCALE N/A	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 230127	DRAWING NO. C3.00			



NOTES

- REFER TO ENTEC FLOOD RISK MANAGEMENT PLAN FOR DETAILS OF FLOOD LEVELS AND FLOOD MANAGEMENT STRATEGY.
- ALL RETAINING WALLS, PLANTERS AND LANDSCAPED AREAS TO CONTAIN SUBSOIL DRAINAGE AND BE CONNECTED TO THE PROPOSED SITE STORMWATER DRAINAGE NETWORK. DESIGN OF SUBSOIL DRAINAGE TO BE UNDERTAKEN DURING THE CONSTRUCTION CERTIFICATE DESIGN STAGE.
- MIN. BASEMENT PUMP-OUT TANK STORAGE VOLUME TO BE 31.2m³ BASED ON THE FOLLOWING CALCULATIONS:
 SURFACE AREA RUNOFF DRAINING TO BASEMENT = 189 m²
 1% AEP 3-HOUR RAINFALL INTENSITY = 37.4 mm/hr
 Q100 FLOW RATE = 1.96 L/s
 REQUIRED 3-HOUR STORAGE VOLUME = 21.2 m³
 A NOMINAL 10m³ STORAGE VOLUME FOR GROUNDWATER SEEPAGE INTO BASEMENT HAS BEEN ALLOWED FOR IN THE DESIGN. TBC BY GEOTECHNICAL ENGINEER.
TOTAL PUMP-OUT TANK VOLUME REQUIRED = 31.2 m³
- NO ON-SITE DETENTION HAS BEEN PROVIDED FOR THIS DEVELOPMENT AS IT IS A FLOOD CONTROL LOT. AS PER COUNCIL'S DIRECTION.

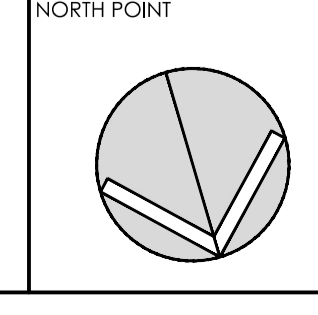
ISSUE	AMENDMENT	DATE	DRAWN	APP
A	ISSUE FOR DEVELOPMENT APPLICATION	17.04.24	JL	NP

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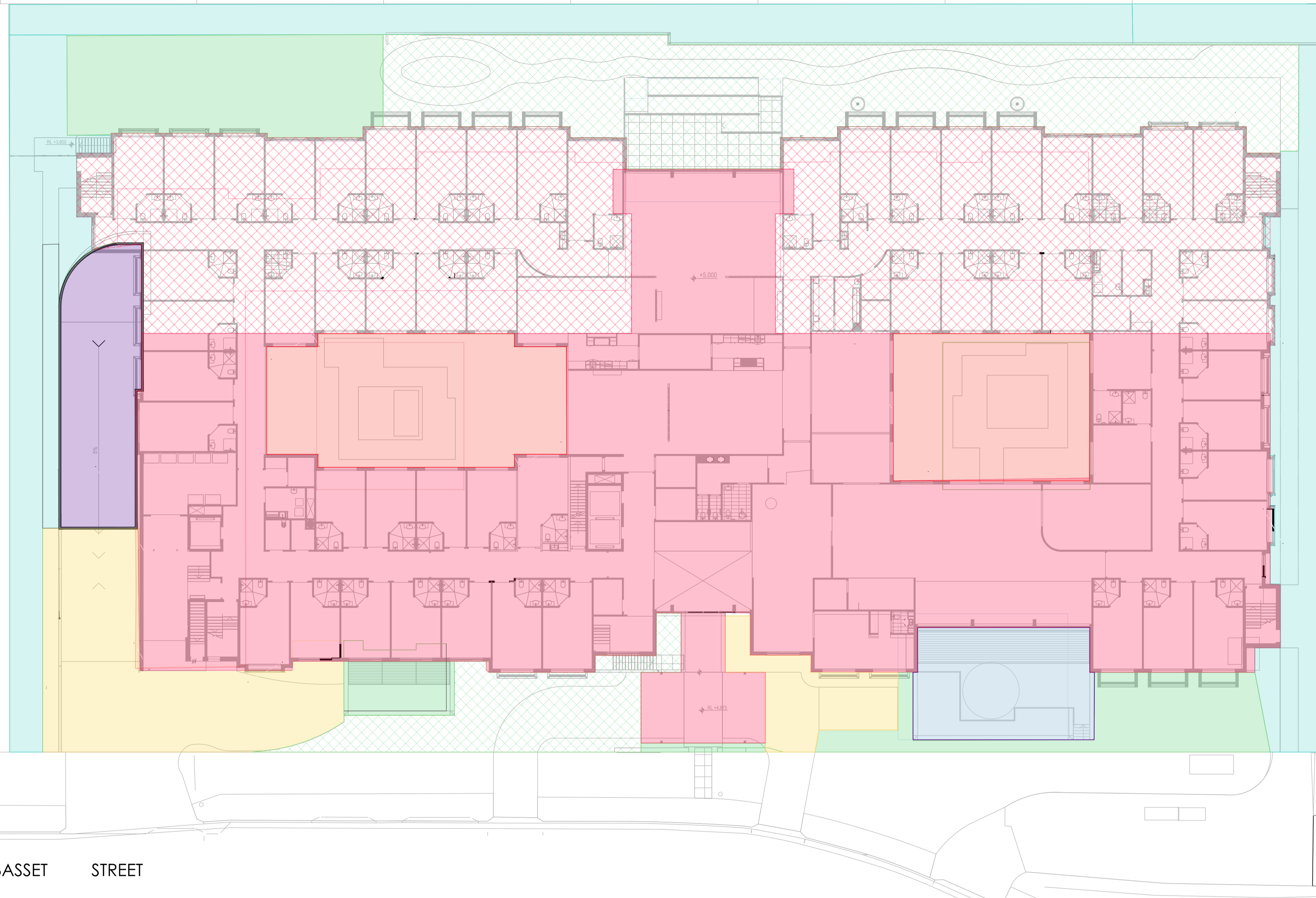
CIVIL CONSULTANT
ENTEC
 CONSULTANTS

PROJECT
**THOMPSON HEALTH BASSETT
 PROPOSED AGED CARE FACILITY**
 23 & 25 BASSETT STREET,
 MONA VALE, N.S.W. 2103

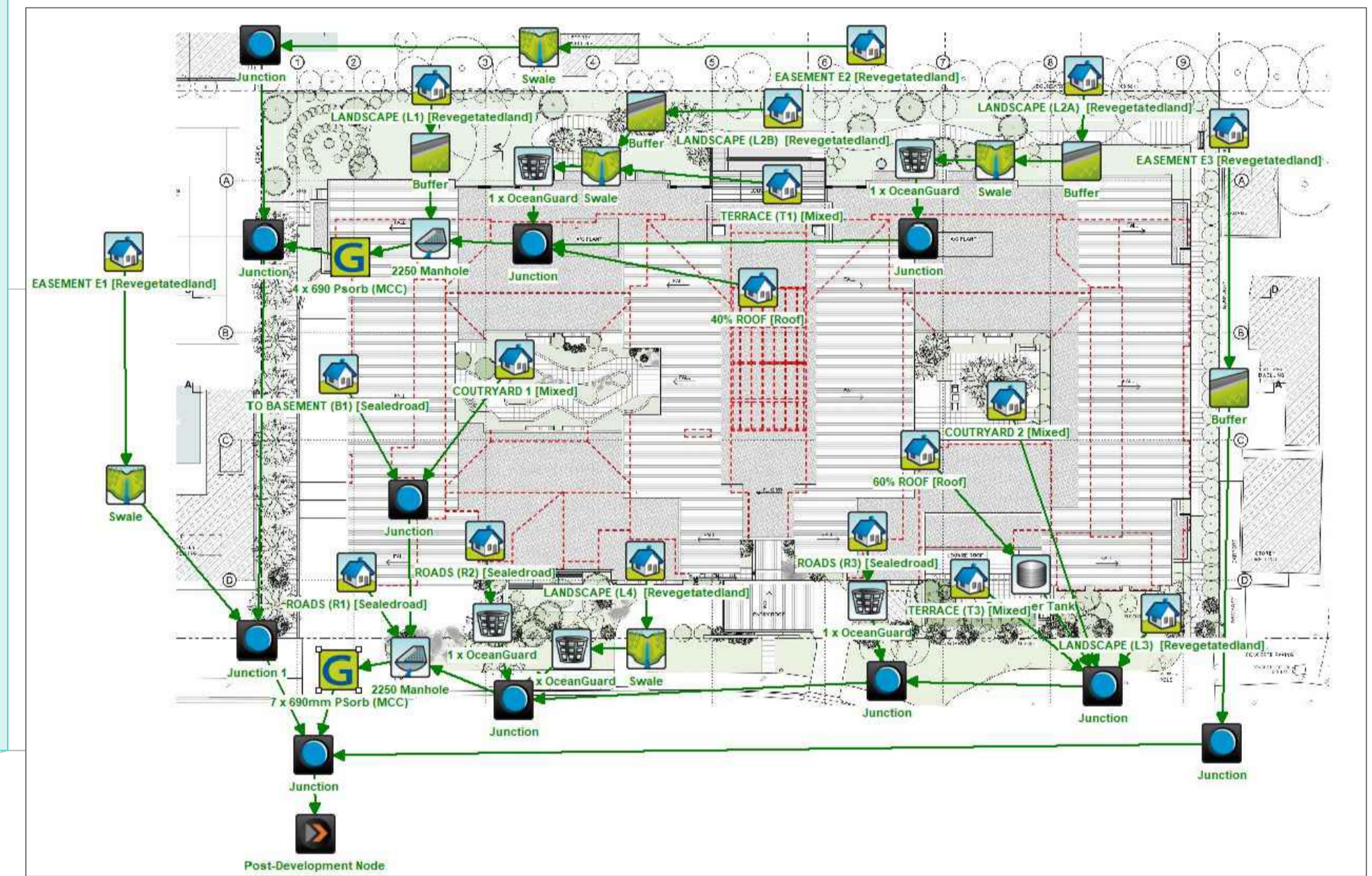


DRAWING TITLE
CIVIL WORKS PLAN

DRAWN	DATE	SCALE	A1	QA CHECK	DATE
JL	APRIL 24	N/A			
DESIGNED	PROJECT NO.	DRAWING NO.	ISSUE		
NP	230127	C3.01	A		



WSUD CATCHMENT DETAILS				
CATCHMENT	TYPE	AREA (m2)	IMPERVIOUS (%)	REMARKS
[Pink]	ROOF (60%)	2350	100	DRAINING TO RAINWATER TANK & FILTER CARTRIDGES
	ROOF (40%)	1390	100	DRAINING TO FILTER CARTRIDGES
[Light Blue]	TERRACE	125	75	DRAINING TO FILTER CARTRIDGES
[Light Orange]	COURTYARD	410	42	DRAINING TO FILTER CARTRIDGES
[Light Green]	LANDSCAPE	400	0	DRAINING TO FILTER CARTRIDGES
[Light Cyan]	EASEMENT	735	18	BYPASS TREATMENT TRAIN
[Yellow]	ROAD	255	100	DRAINING TO FILTER BASKETS AND FILTER CARTRIDGES
[Purple]	DRIVEWAY TO BASEMENT	130	100	PUMP OUT TO FILTER CARTRIDGES
[Green with cross-hatch]	LANDSCAPE, ROAD, TERRACES	715	39	DRAINING TO SWALES AND TO FILTER CARTRIDGES



MUSIC MODEL

ACHIEVED WATER QUALITY TARGETS AS PER NORTHERN BEACHES COUNCIL DCP REQUIREMENTS:

- GROSS POLLUTANT LOADS 90%
- TOTAL SUSPENDED SOLIDS 85%
- TOTAL PHOSPHORUS 65%
- TOTAL NITROGEN 45%

BASSETT STREET

	Sources	Residual Load	% Reduction
Flow (ML/yr)	6.8	6.31	7.3
Total Suspended Solids (kg/yr)	676	100	85.1
Total Phosphorus (kg/yr)	1.69	0.479	71.6
Total Nitrogen (kg/yr)	15	7.42	50.5
Gross Pollutants (kg/yr)	162	2.34	98.6

ISSUE	AMENDMENT	DATE	DRAWN	APP
A	ISSUE FOR DEVELOPMENT APPLICATION	17.04.24	JL	NP

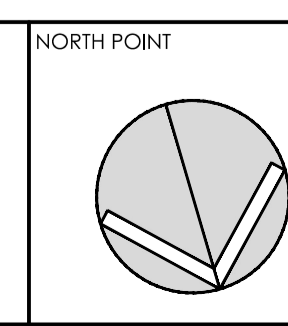
CLIENT
THOMPSON HEALTH CARE
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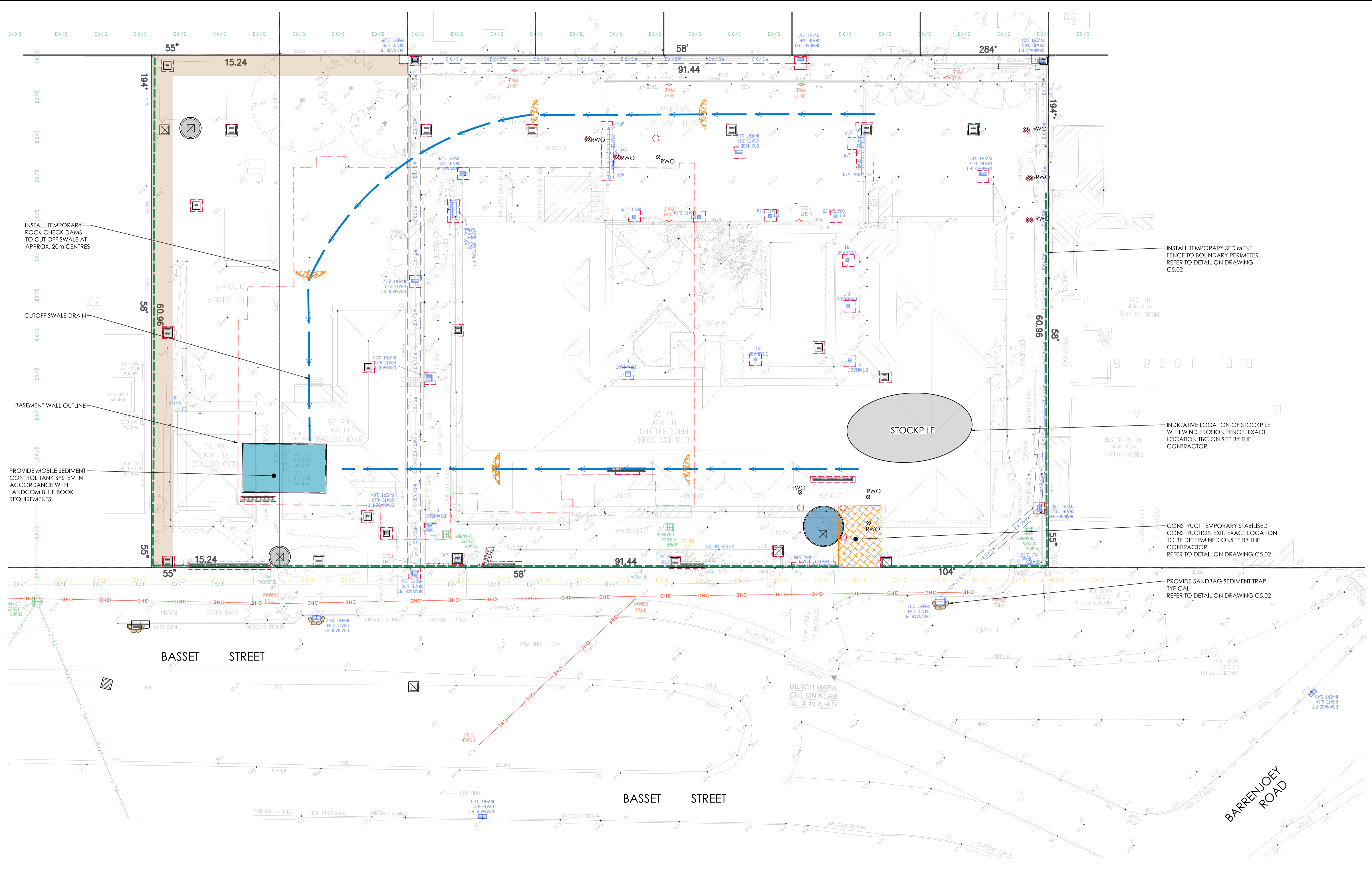
ARCHITECT
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CIVIL CONSULTANT
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PROJECT
THOMPSON HEALTH BASSETT PROPOSED AGED CARE FACILITY
23 & 25 BASSETT STREET,
MONA VALE, N.S.W. 2103



DRAWING TITLE				
CATCHMENT PLAN				
DRAWN	DATE	SCALE	A1	QA CHECK
JL	APRIL 24	N/A		DATE
DESIGNED	PROJECT NO.	DRAWING NO.	ISSUE	
NP	230127	C3.15	A	



A	ISSUE FOR DEVELOPMENT APPLICATION	17.04.24	JL	NP	
	AMENDMENT				

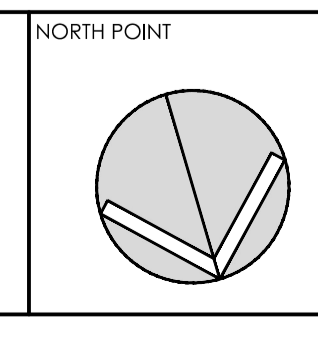
CLIENT
THOMPSON HEALTH CARE
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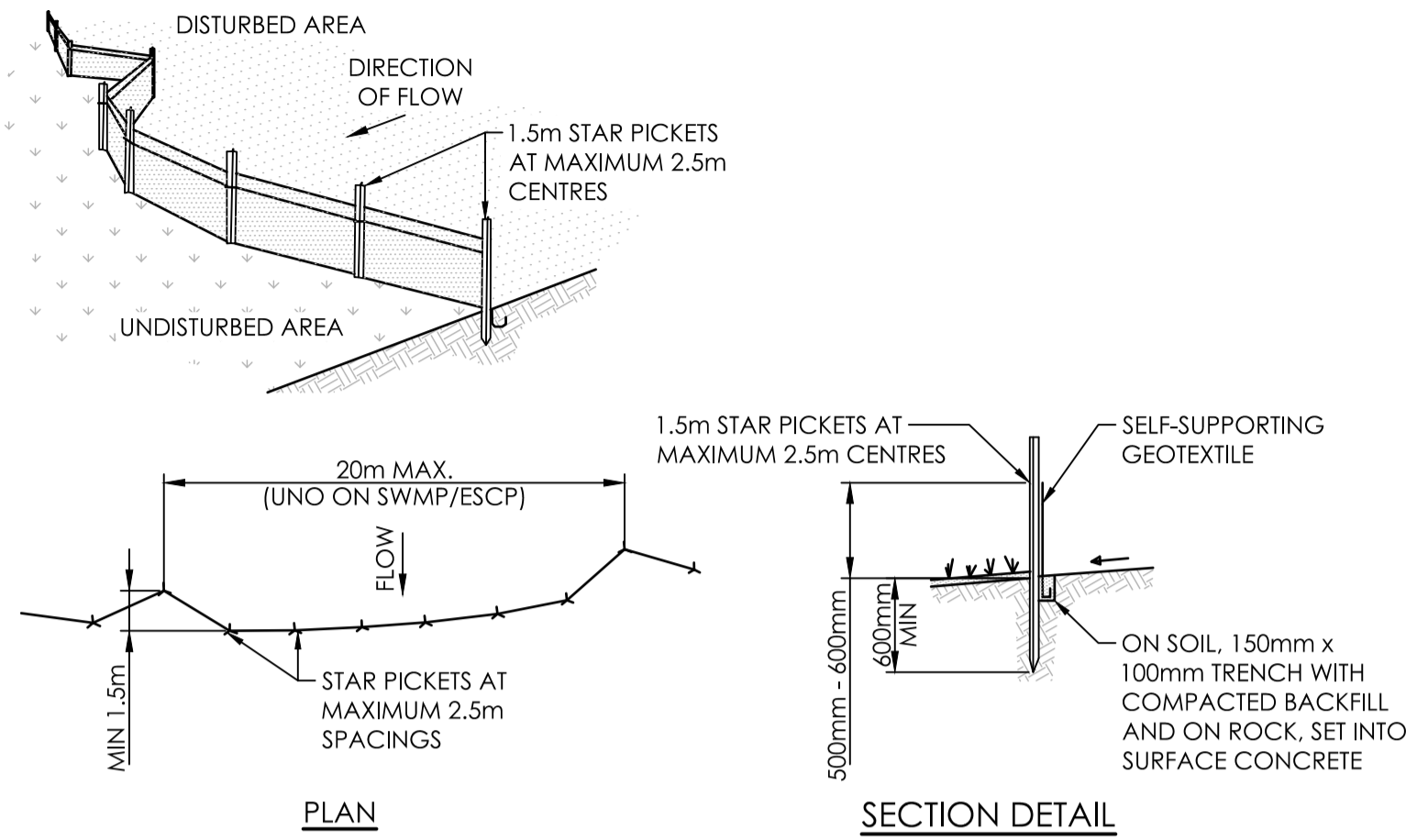
ARCHITECT
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CIVIL CONSULTANT
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PROJECT
THOMPSON HEALTH BASSETT PROPOSED AGED CARE FACILITY
 23 & 25 BASSETT STREET,
 MONA VALE, N.S.W. 2103



DRAWING TITLE SOIL EROSION AND SEDIMENT CONTROL PLAN					
DRAWN JL	DATE APRIL 24	SCALE N/A	A1	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 230127	DRAWING NO. C5.01			ISSUE A

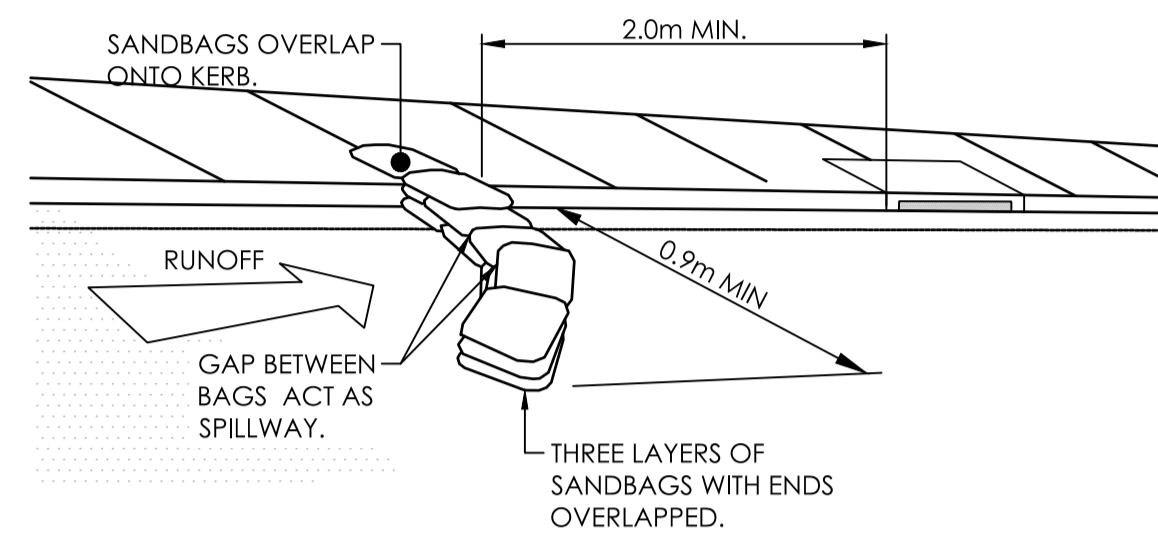


CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 2.5 METRES APART (MAX). ENSURE STAR PICKETS ARE FITTED WITH SAFETY CAPS.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

SEDIMENT CONTROL FENCE

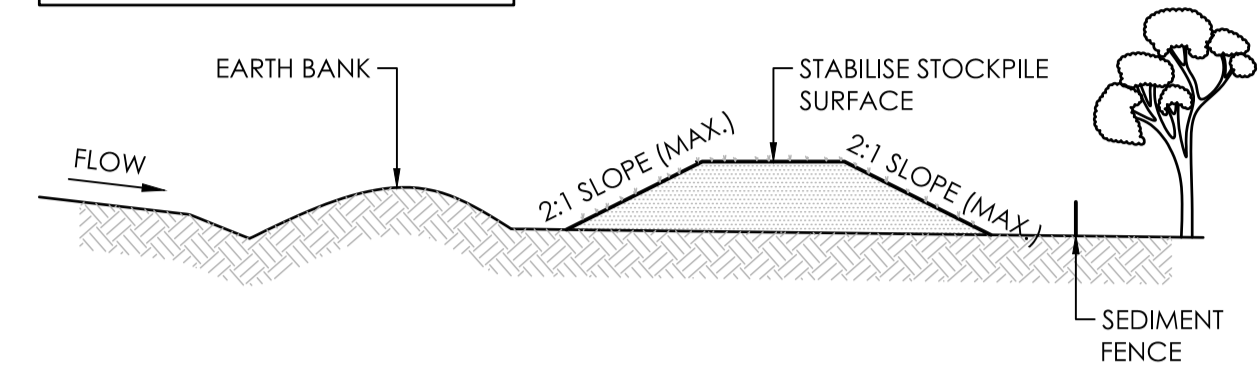
N.T.S.



SANDBAG KERB INLET SEDIMENT TRAP

N.T.S.

SOURCE:
MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION. THIRD
EDITION, AUGUST 1998 PRODUCED
BY THE DEPARTMENT OF HOUSING



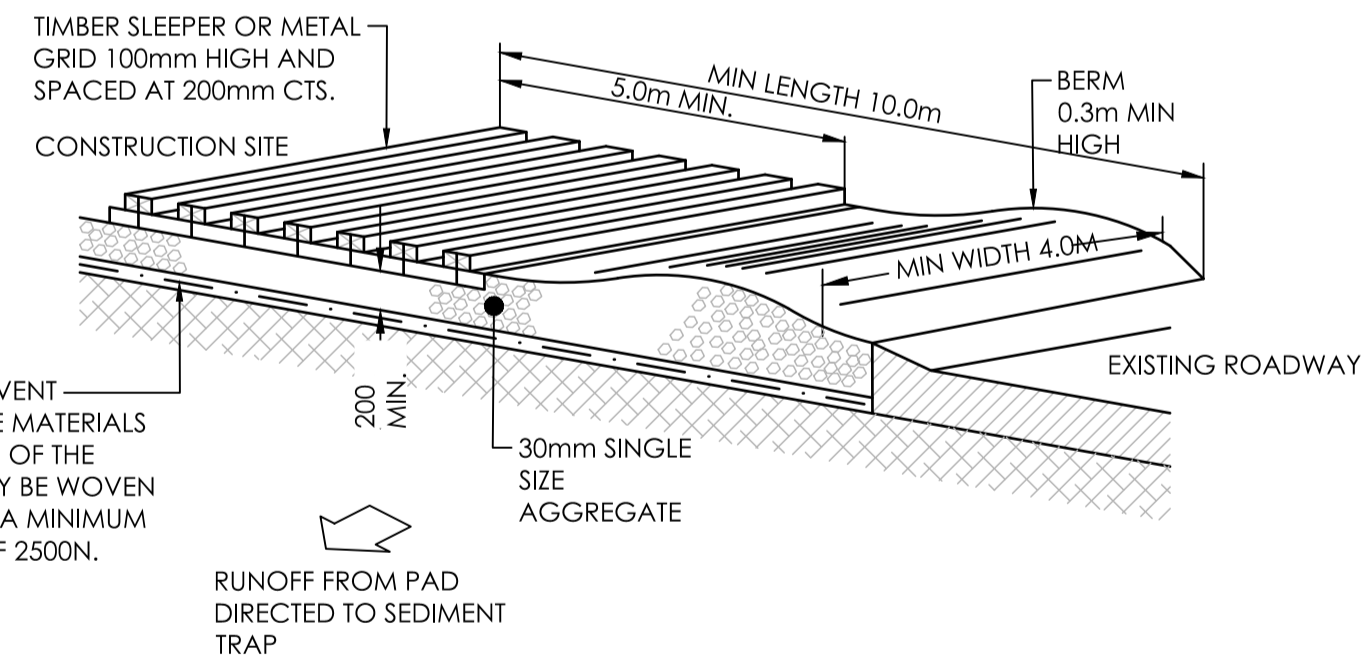
CONSTRUCTION NOTES

1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-7) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

STOCKPILES

N.T.S.

NOTE
ENSURE THAT ALL UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT



GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. THE GEOTEXTILE MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (A53706.4-90) OF 2500N.

CONSTRUCTION NOTES

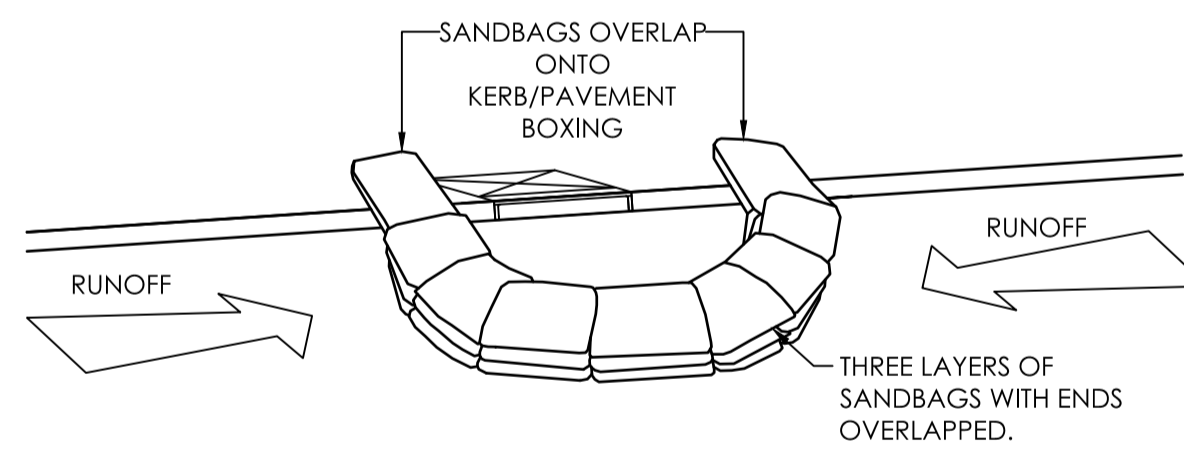
1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

MAINTENANCE NOTES

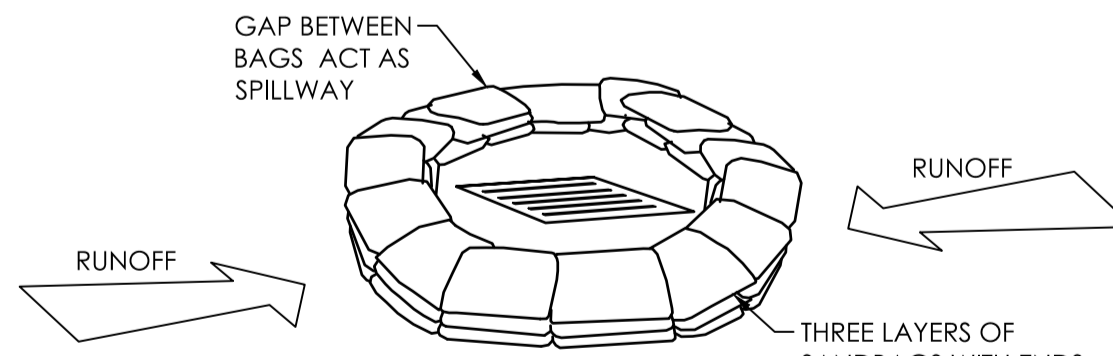
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

TEMPORARY STABILISED CONSTRUCTION EXIT

N.T.S.



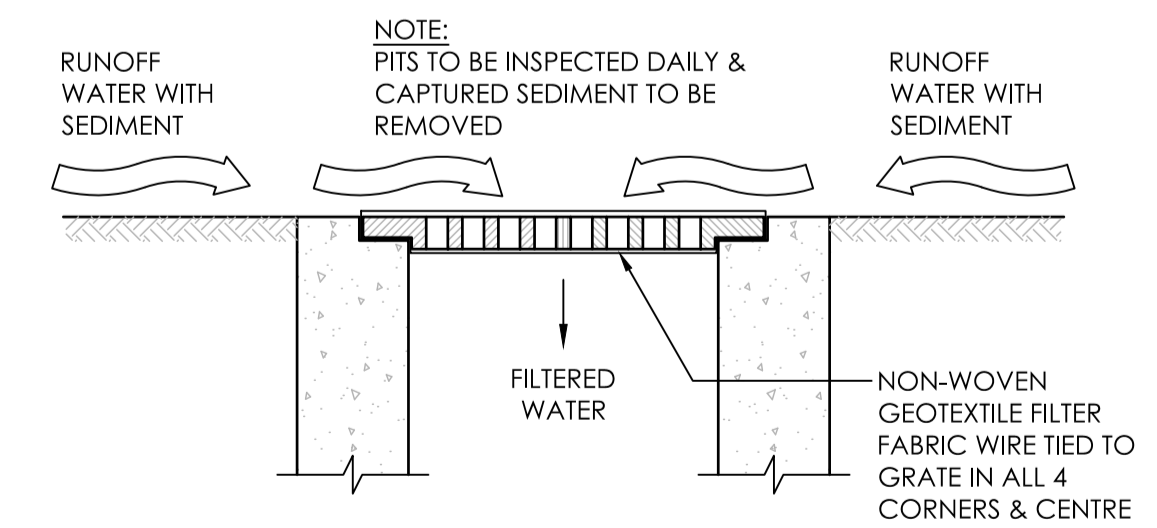
SANDBAG SEDIMENT TRAP - AT KERB SAG PIT



SANDBAG SEDIMENT TRAP - AT OTHER THAN KERB SAG PIT

SANDBAG SEDIMENT TRAP DETAILS

N.T.S.



INLET TRAP

N.T.S.

NOTE
TO BE USED IN PAVED AREAS WHERE TRAFFIC ACCESS IS REQUIRED

A	ISSUE FOR DEVELOPMENT APPLICATION	17.04.24	JL	NP
	AMENDMENT			

CLIENT
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PROJECT
THOMPSON HEALTH BASSETT PROPOSED AGED CARE FACILITY
23 & 25 BASSETT STREET,
MONA VALE, N.S.W. 2103

NORTH POINT

DRAWING TITLE SOIL EROSION AND SEDIMENT CONTROL DETAILS					
DRAWN JL	DATE APRIL 24	SCALE N/A	AT	QA CHECK	DATE
DESIGNED NP	PROJECT NO. 230127	DRAWING NO. C5.02	ISSUE A		