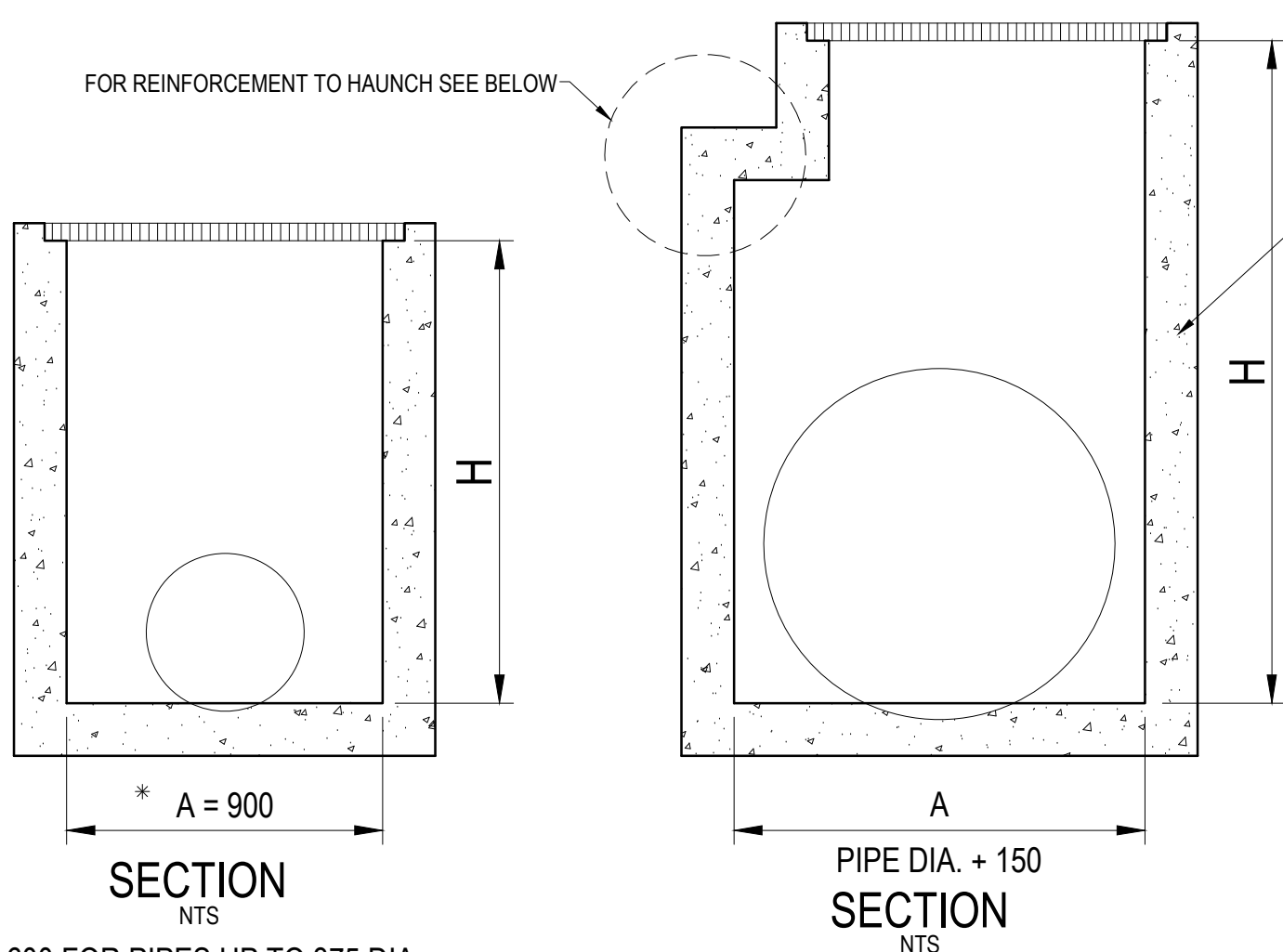


IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

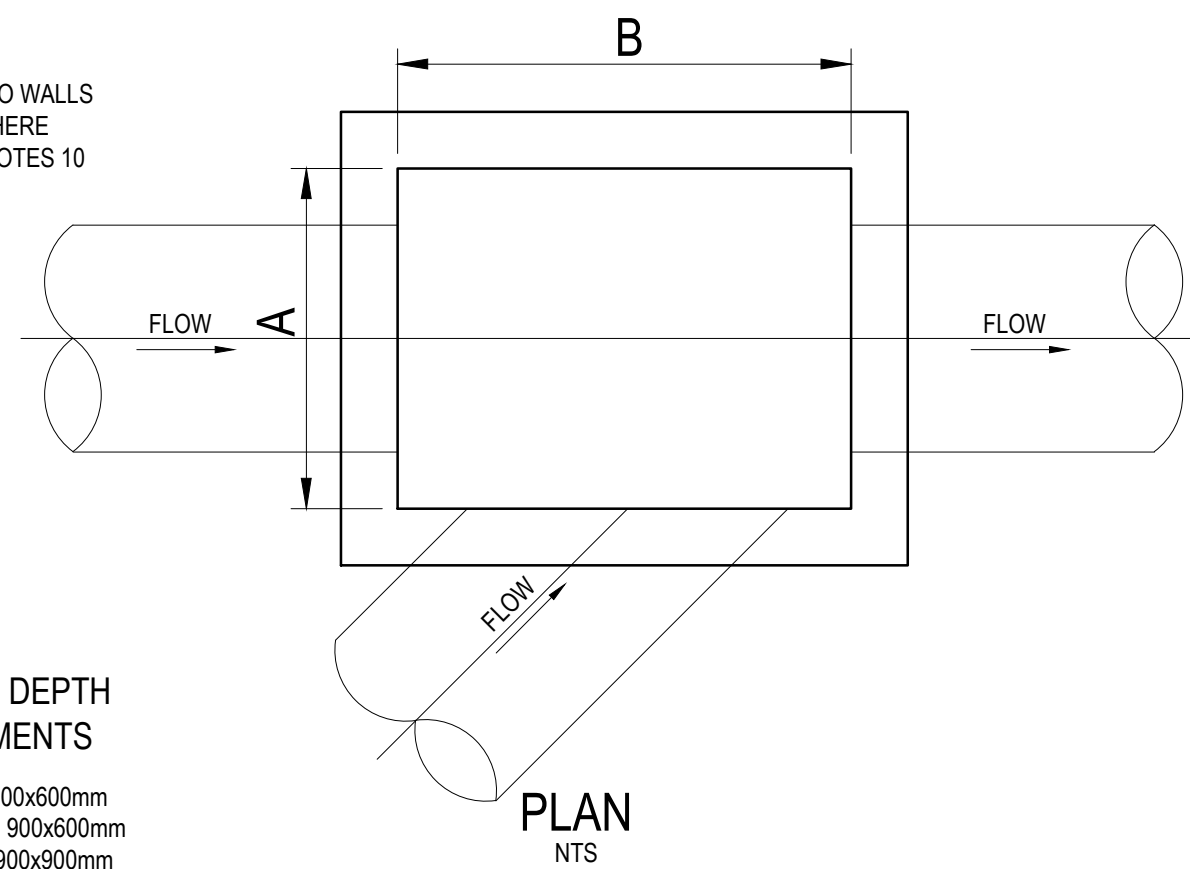
- ① SELECT PIT CHAMBER USING THE STEPS BELOW:
- ② SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- ③ CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.



*A = 600 FOR PIPES UP TO 375 DIA.

- 1 PIT CHAMBER DIMENSIONS
FOR PIPES UP TO 600 DIA.

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
 FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
 FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
 FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
 FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



- ## 2 PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm

- ③ PIT CHAMBER FOR
SIDE ENTRY ON SKEW

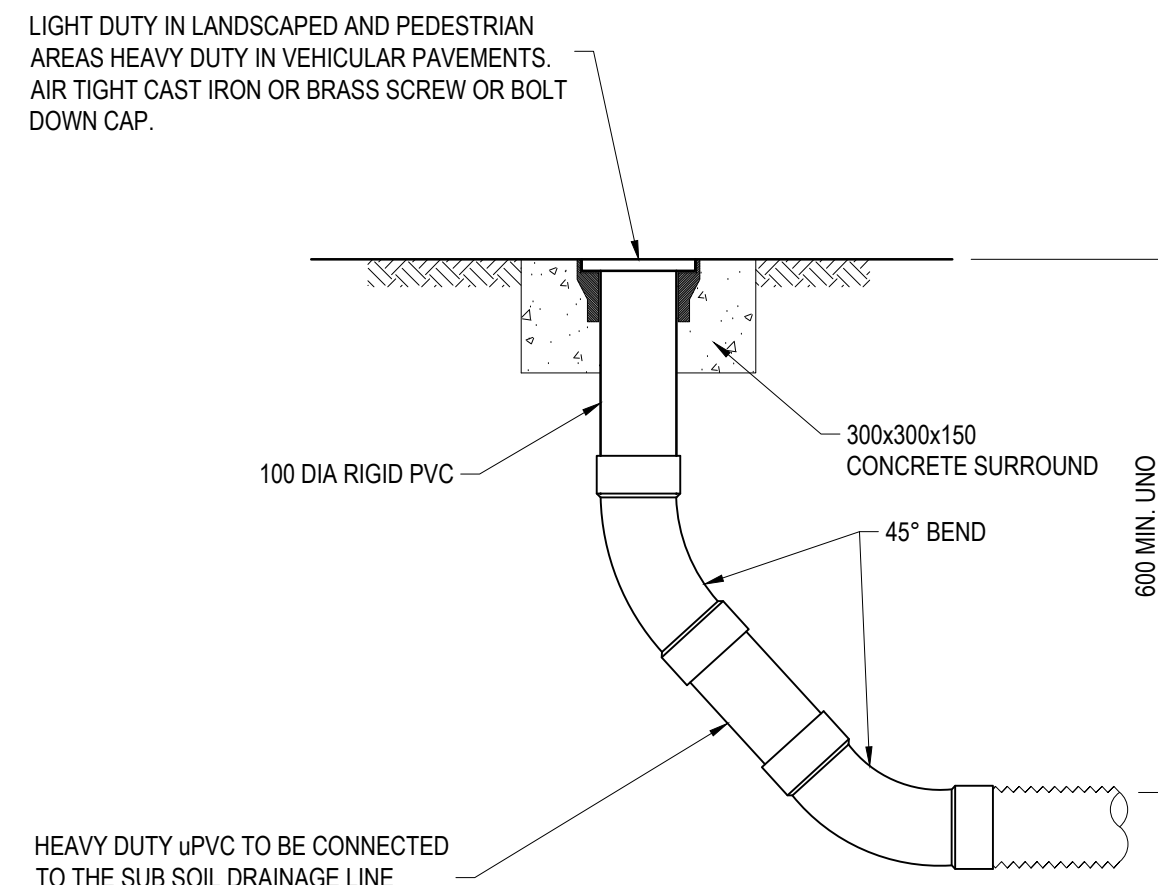
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

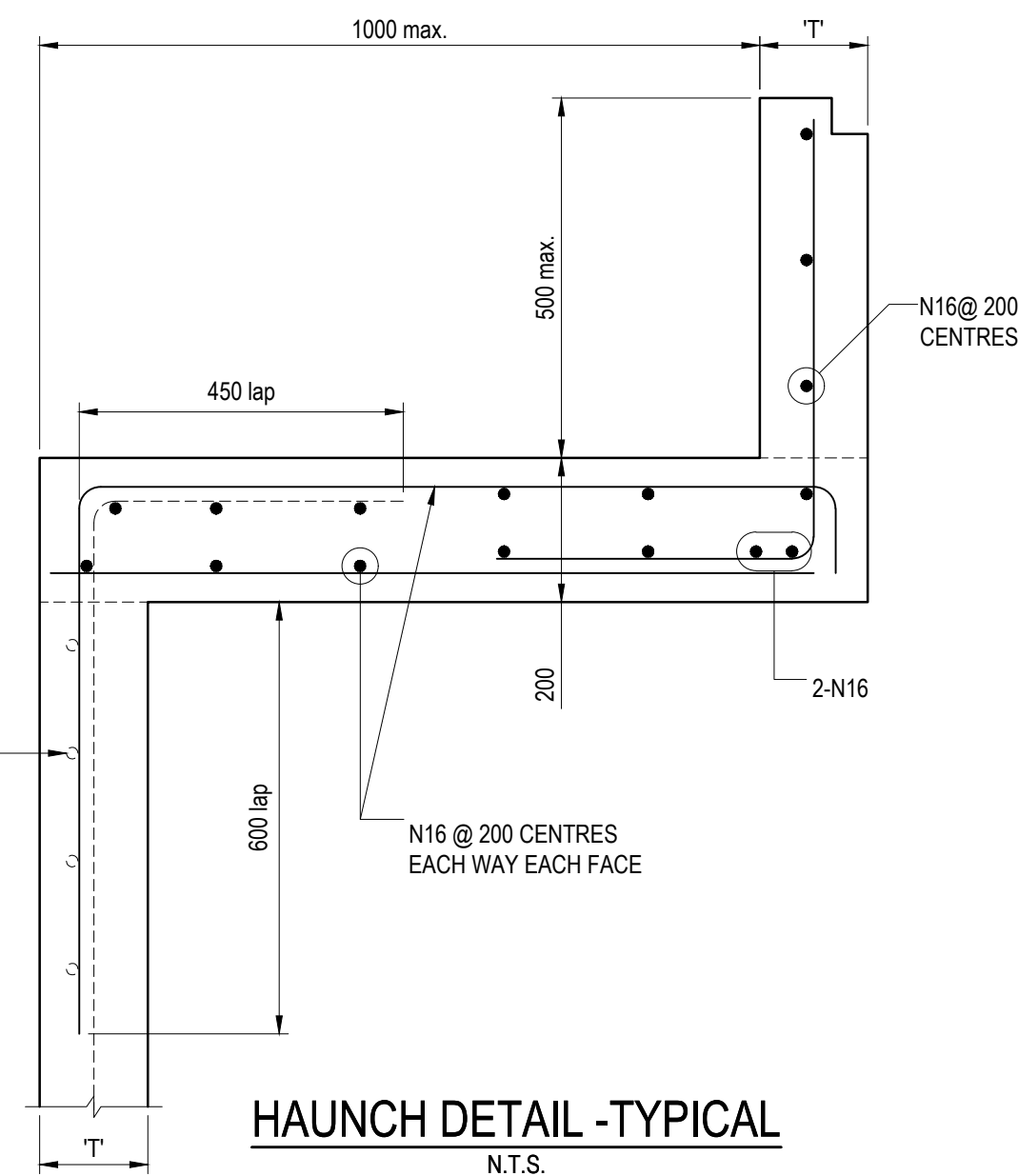
TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

PIT/STRUCTURE NUMBER	DESCRIPTION
A-4 C-1	SAG KERB INLET PIT WITH 1.8m LINTEL AND MEDIUM DUTY GRATED LID CLASS "C" WITH OCEANGUARD IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL REQUIREMENT
A-2 A-3 B-2 B-4	ON GRADE KERB INLET PIT WITH 1.8m LINTEL AND MEDIUM DUTY GRATED LID CLASS "C" WITH OCEANGUARD IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL REQUIREMENT
C-2 C-3 C-4 D-1 F-1	SURFACE INLET PIT WITH HINGED 600x600 MEDIUM DUTY GRATED LID CLASS "C" WITH OCEANGUARD IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL'S REQUIREMENTS.
B-3 E-1	SURFACE INLET PIT WITH HINGED 450x450 MEDIUM DUTY GRATED LID CLASS "C" WITH OCEANGUARD IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL'S REQUIREMENTS.
A-1	JUNCTION PIT WITH 600x600 HINGED MEDIUM DUTY CONCRETE LID CLASS "C" IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL'S REQUIREMENTS.
B-1	OSD TANK ACCESS OPENING WITH 900x900 HINGED MEDIUM DUTY GRATED LID CLASS "C" WITH LOCK-DOWN SYSTEM IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL'S REQUIREMENTS.
GD-1	200mm WIDE MEDIUM DUTY GRATED DRAIN AND MEDIUM DUTY FRAME CLASS "C" IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL'S REQUIREMENTS.
GD-2	300mm WIDE MEDIUM DUTY GRATED DRAIN AND MEDIUM DUTY FRAME CLASS "C" IN ACCORDANCE WITH WOOLLAHRA MUNICIPAL COUNCIL'S REQUIREMENTS.
EX-1 EX-2	EXISTING PIT TO REMAIN.

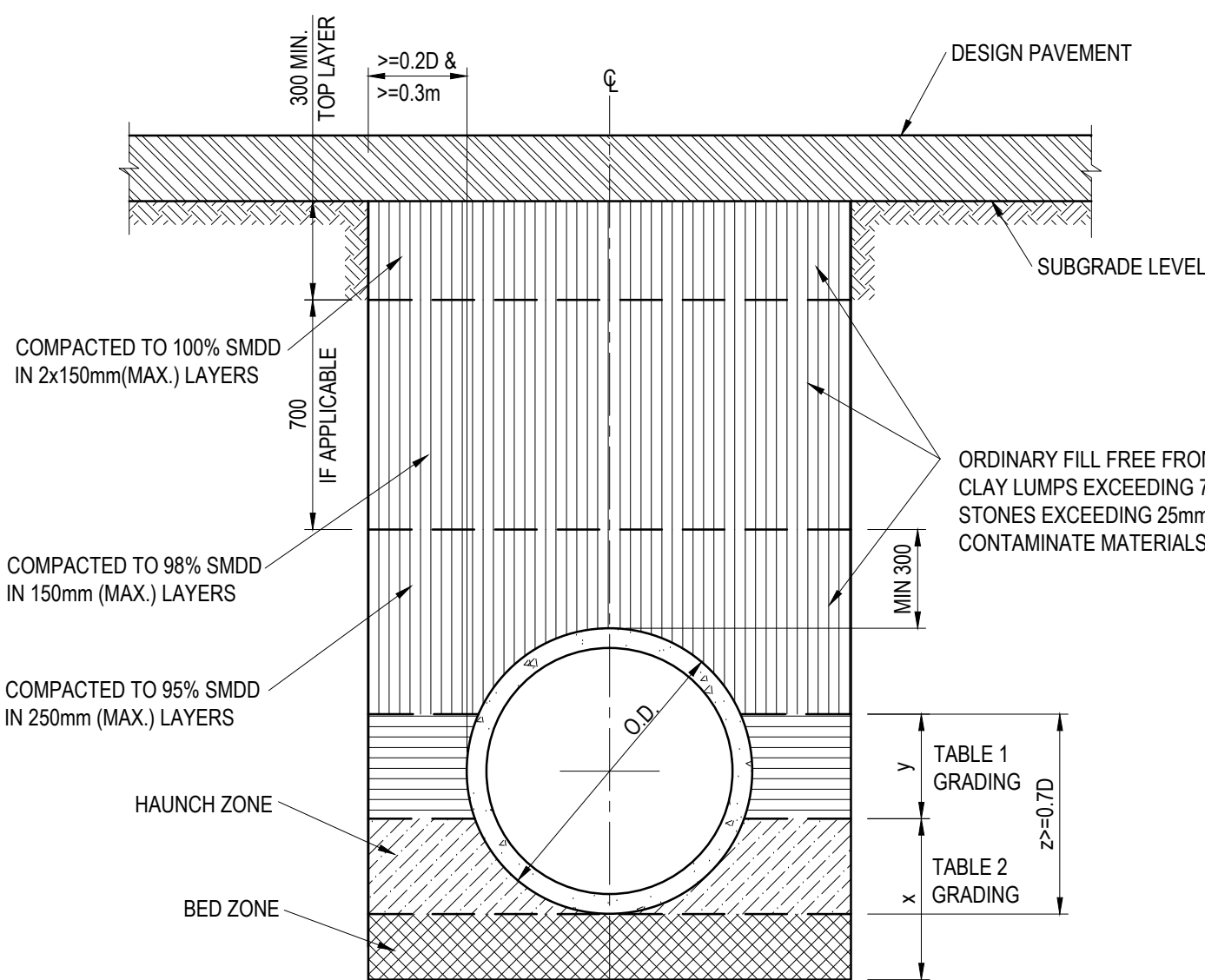
1. ALL STORMWATER WORK TO COMPLY WITH AS 3500.3 PART 3.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W/ WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIGNED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f_c=32 MPa. REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACED. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.
 11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
 - PIPE SIZE
 - DEPTH TO INVERT
 - SKEW ANGLEREFER TYPICAL PIT CHAMBER DETAILS BELOWIF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCH TO FACILITATE FLOW.
13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNQ, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
20. PITS IN EXCESS OF 1.5m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND
FITTINGS MAY BE USED



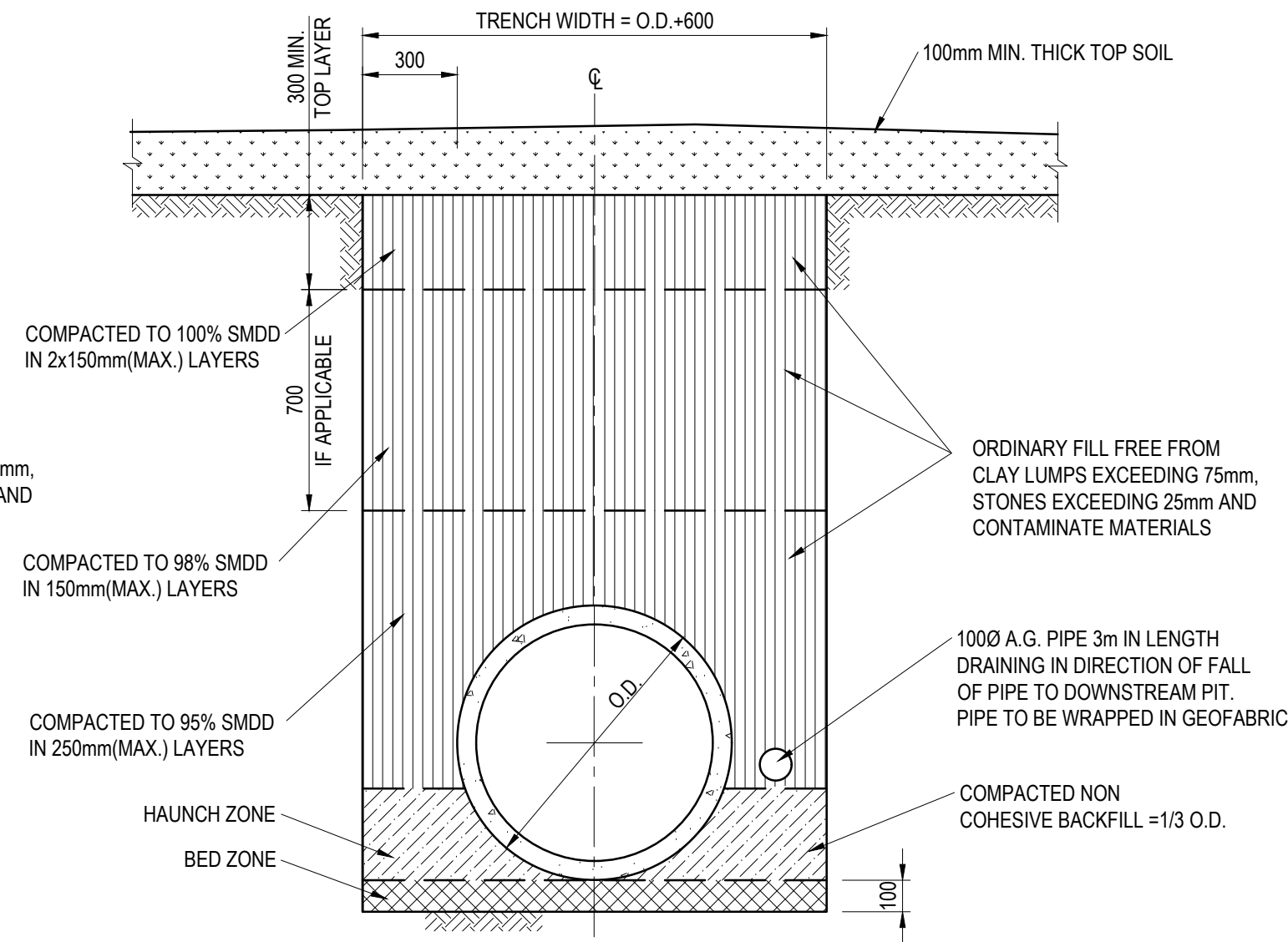
N.T.S.



PIPE TRENCH INSTALLATION BENEATH PAVEMENT

(HS SUPPORT TO BE USED UNDER ROADWAY)

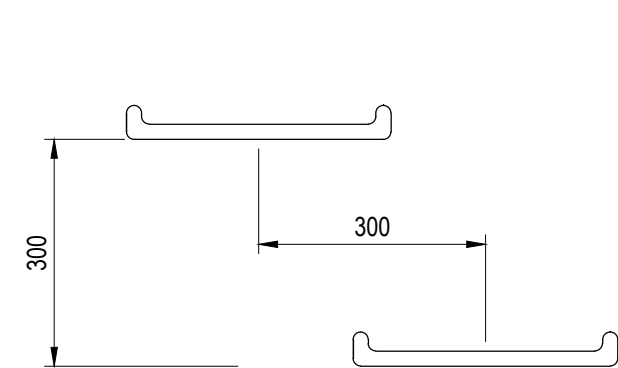
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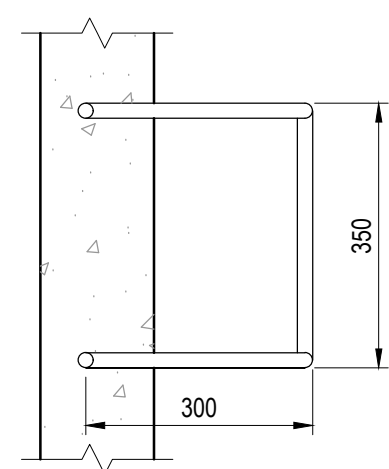
PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS

(H1 & H2 SUPPORT)

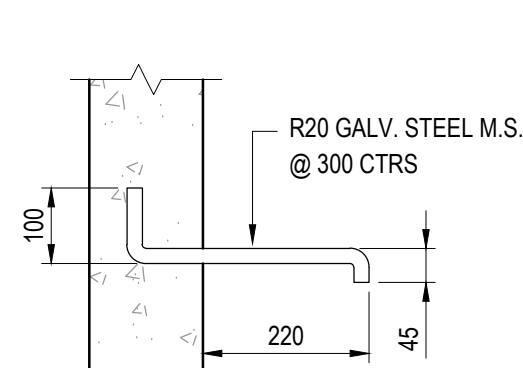
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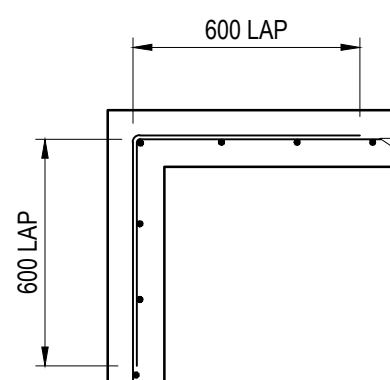
ELEVATION



PLAN

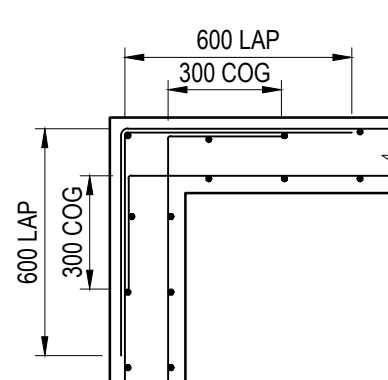


SECTION



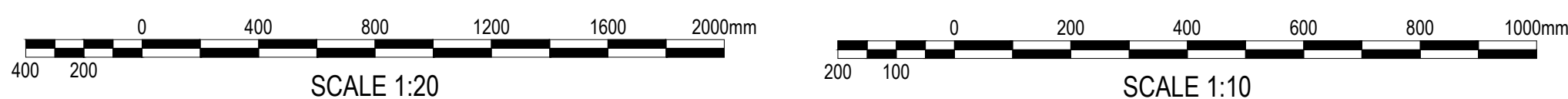
150 WALL - CORNER DETAIL

SCALE 1:20



200 WALL - CORNER DETAIL

SCALE 1:20

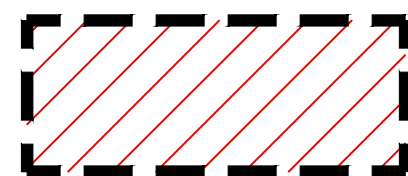


SURVEY INFORMATION SURVEYED BY: CRUX SURVEYING AUSTRALIA DATUM: AHD ORIGIN OF LEVELS: SSM 99001, RL \$3 939 (AHD)										Client KINCOPPAL ROSE BAY SCHOOL Architect BVN Architects This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Level 5, 79 Victoria Avenue Cherrywood NSW 2067 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email enquiries@hiconsult.com.au Web www.henryandhymas.com.au										Project KINCOPPAL ROSE BAY SCHOOL NEW SOUTH HEAD ROAD, ROSE BAY, NSW Title STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE										Drawn J.Knight Checked A. Francis Designed I.Ahmed Approved A. Francis Date JAN 2020 Scale @A1 1:100									
02 ISSUED FOR SSDA 01 ISSUED FOR INFORMATION ONLY										MS AF 25.08.2020 KR AF 07.04.2020										AMENDMENT AMENDMENT										REVISION 19949_DA_C200										02									



SCALE: NTS

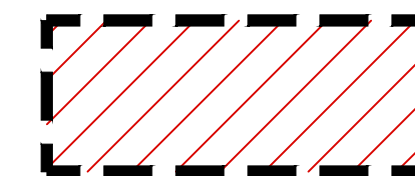
PERVIOUS AREA = 1038m²



IMPERVIOUS AREA = 2226m²

SCALE: NTS

PERVIOUS AREA = 1146m²

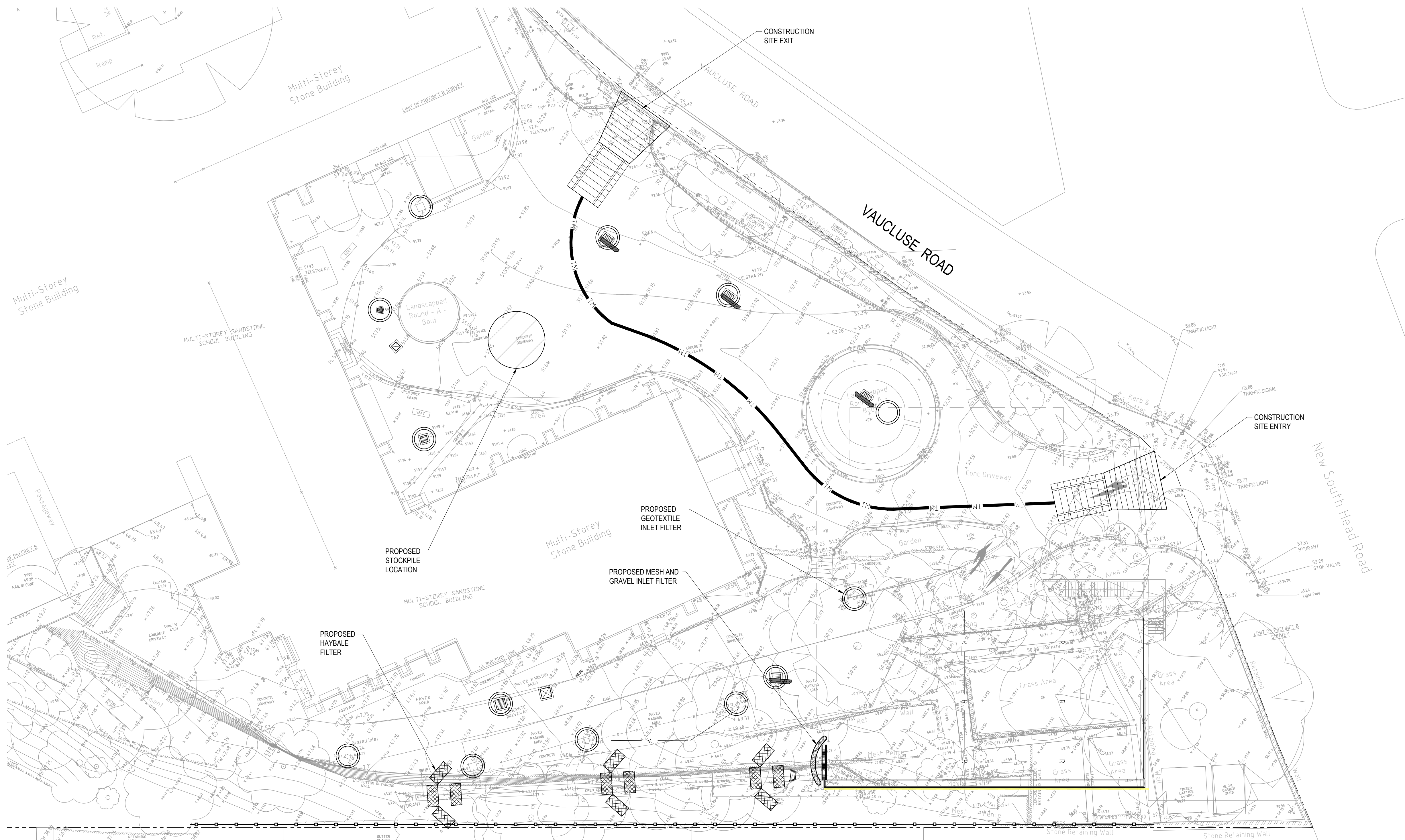


IMPERVIOUS AREA = 2100m²

FOR DEVELOPMENT APPLICATION

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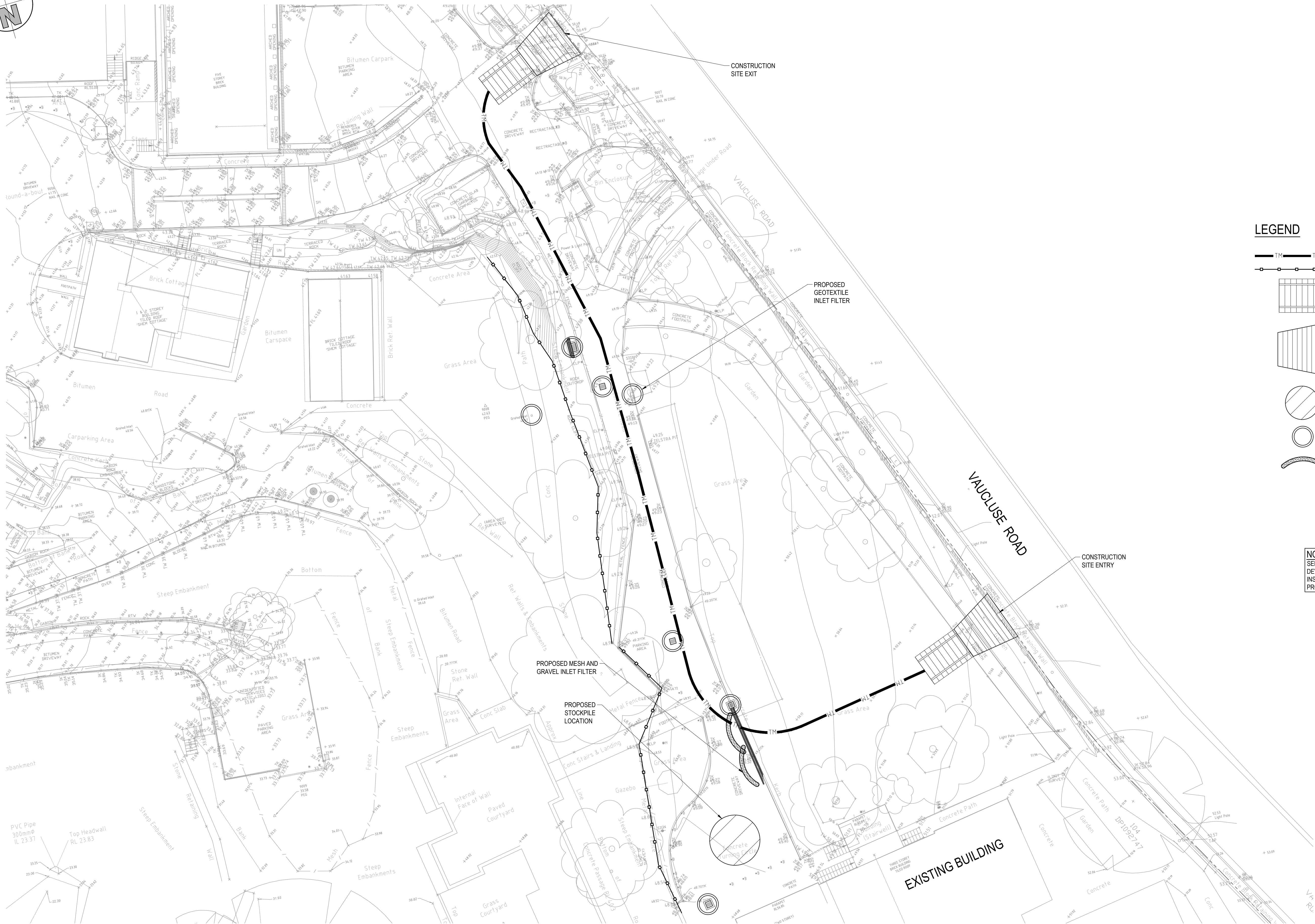
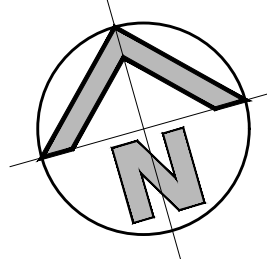


SCALE: 200



FOR CONSTRUCTION ORDER ONLY

[illegible]



LEGEND

- TM — TM → TRAFFIC MANOEUVRING
- — — — — PROPOSED SEDIMENTATION FENCE
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED STOCKPILE LOCATION
- GEOTEXTILE INLET FILTER
- PROPOSED MESH & GRAVEL INLET FILTER

NOTE:
SEDIMENT AND EROSION CONTROL
DEVICES TO BE PROGRESSIVELY
INSTALLED AS CONSTRUCTION
PROGRESSES.

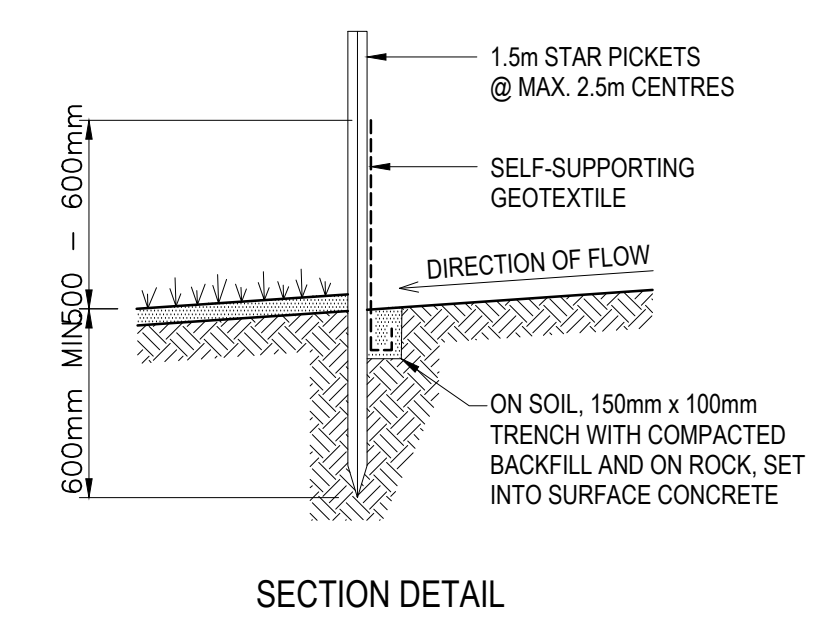
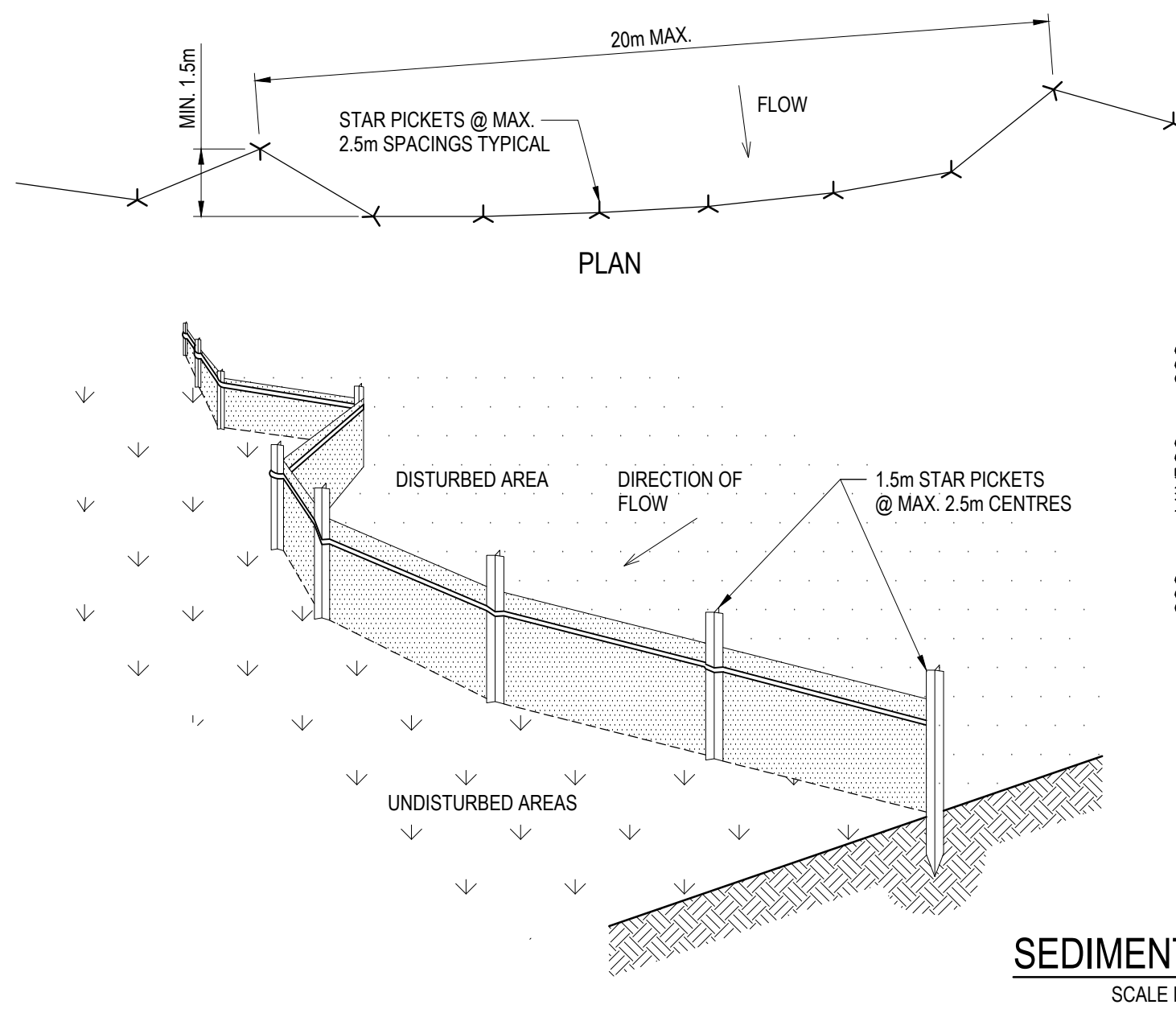
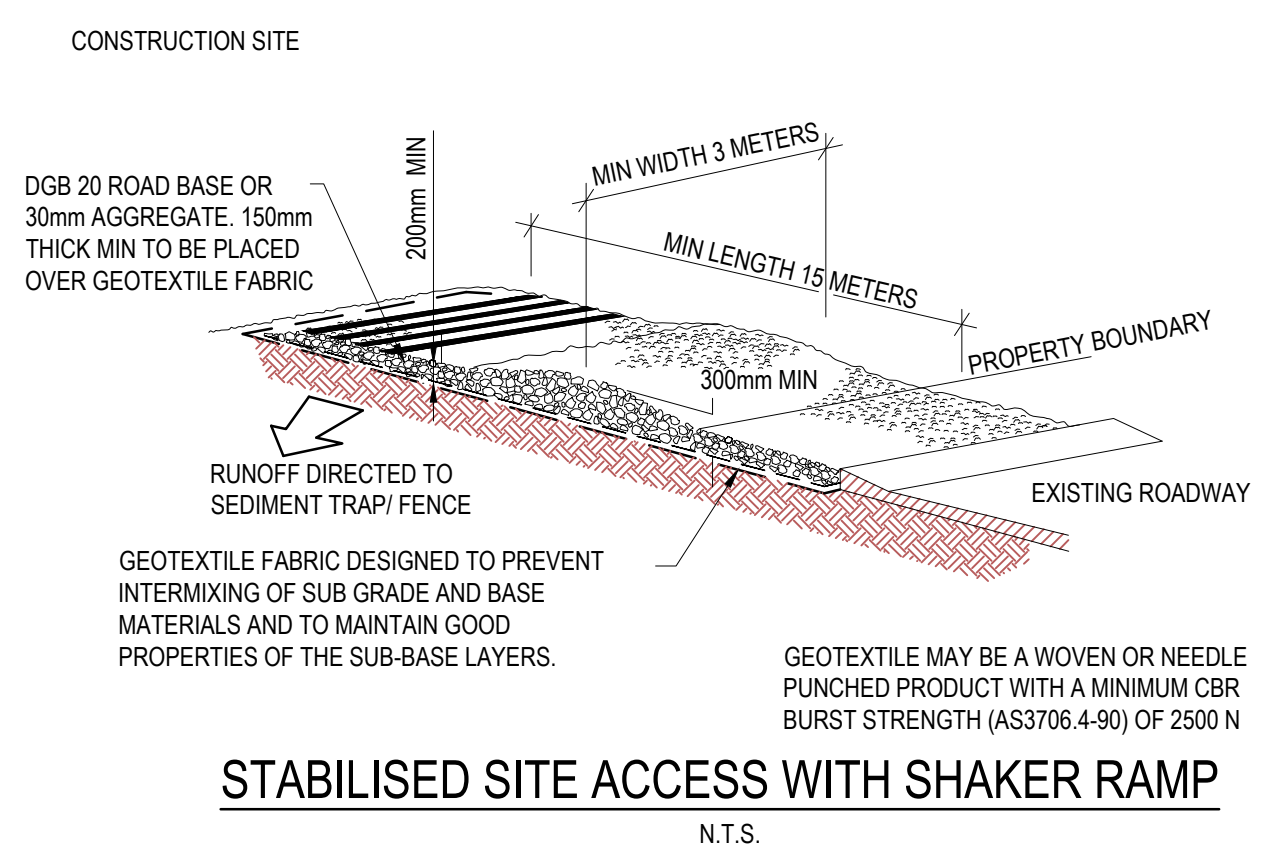
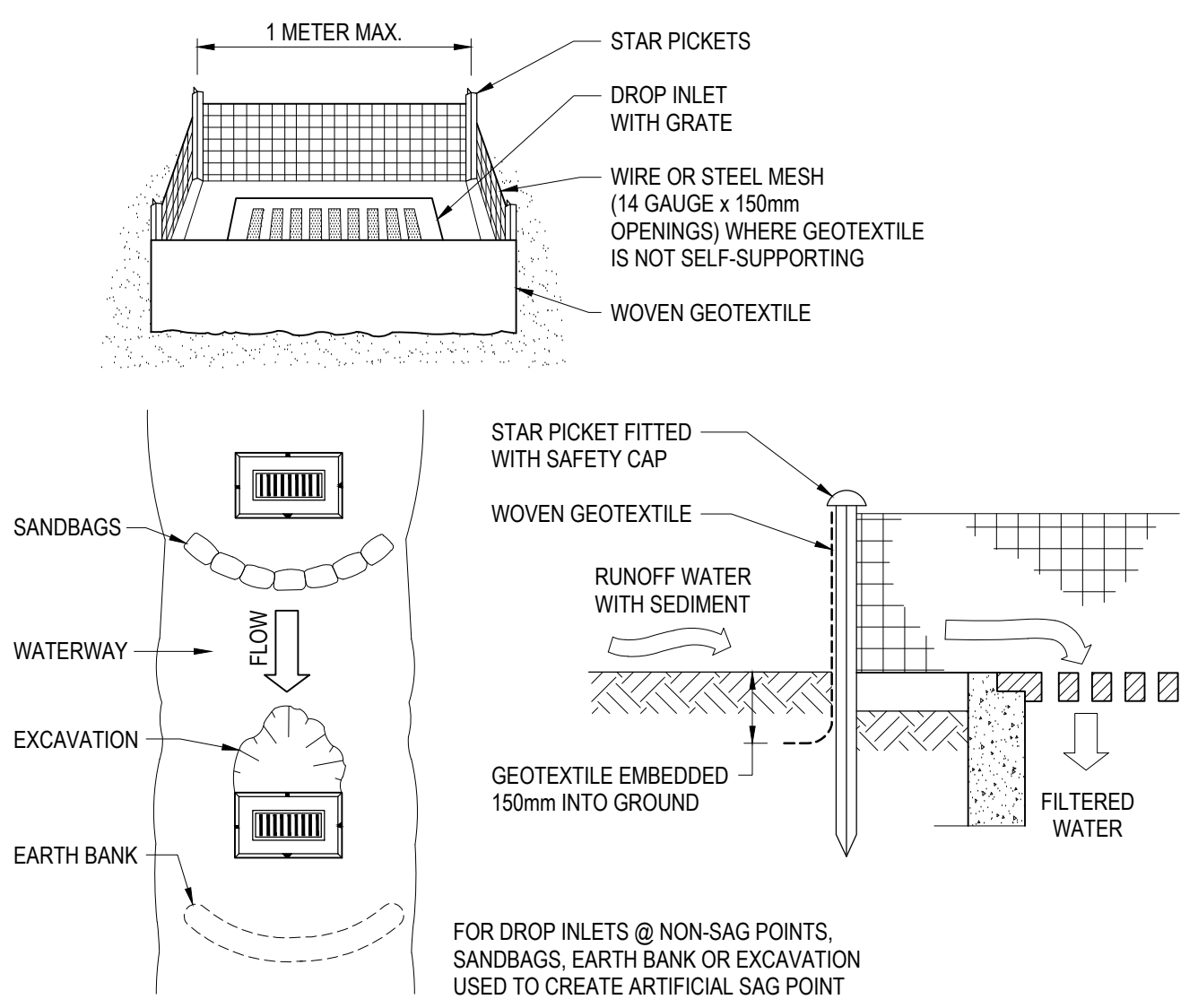
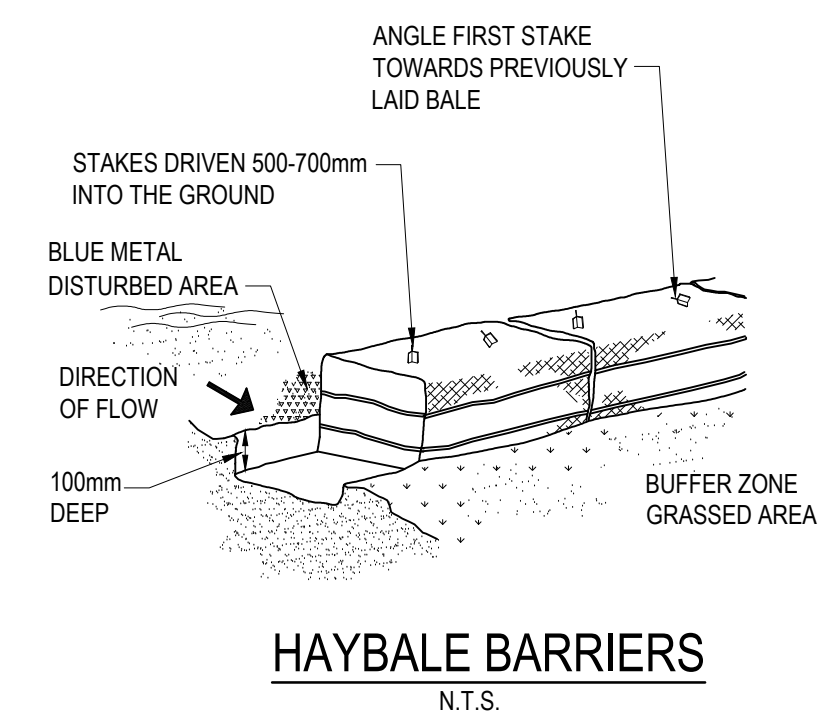
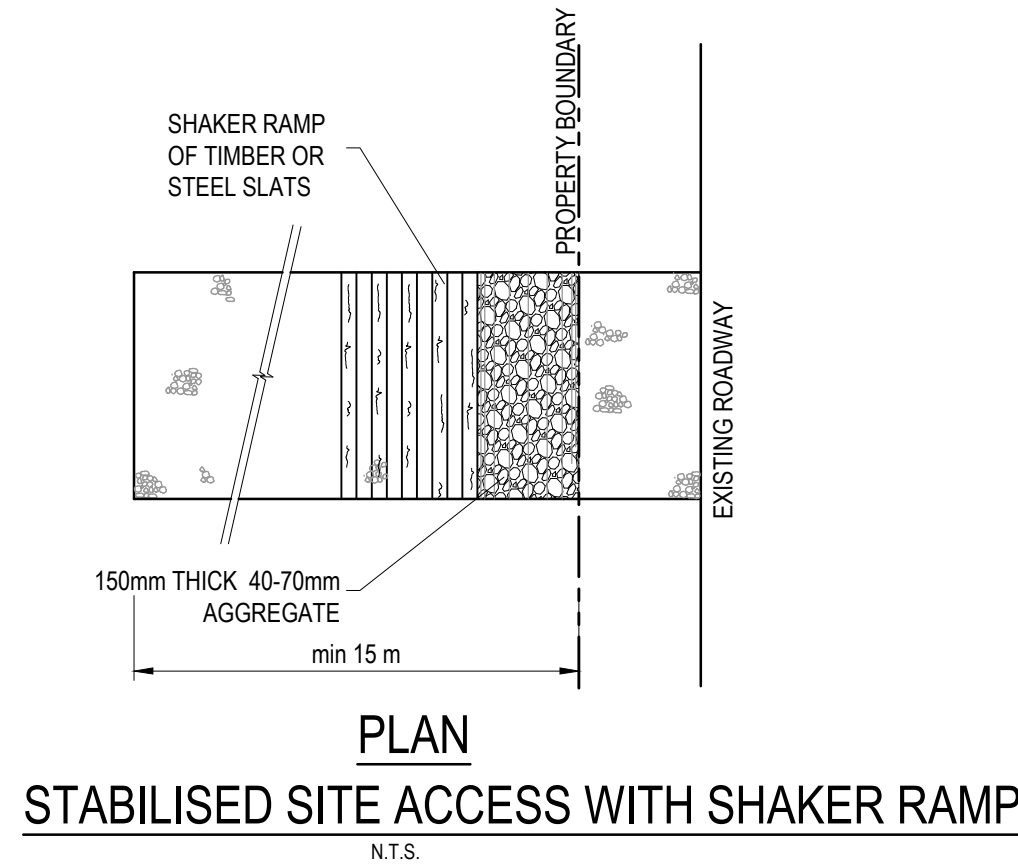


JUNIOR SCHOOL - SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1:200

FOR CONSTRUCTION ORDER ONLY

SURVEY INFORMATION				Client				Project				Drawn			
SURVEYED BY: CRUX SURVEYING AUSTRALIA				KINCOPPAL ROSE BAY SCHOOL				J.Knight				Designed I.Ahmed			
DATUM: AHD				Architect BVN Architects				Checked A.Francis				Approved A.Francis			
ORIGIN OF LEVELS: SSM 99001, RL 53.939 (AHD)				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Title JUNIOR SCHOOL - SEDIMENT AND EROSION CONTROL PLAN				Drawing number 19949_DA_SE02			
REVISION				DRAWN				Scale (B/A1) 1:200				Revision 02			
02 ISSUED FOR SSDA				MS AF 26.08.2020											
01 ISSUED FOR INFORMATION ONLY				KR AF 07.04.2020											
AMENDMENT				DRAWN											
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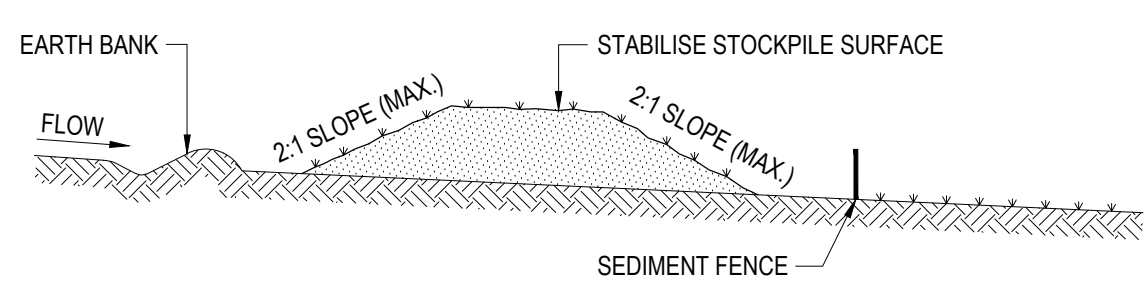


GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
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 GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER
N.T.S.

- NOTES:
1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
 2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
 3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
 4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY 'HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

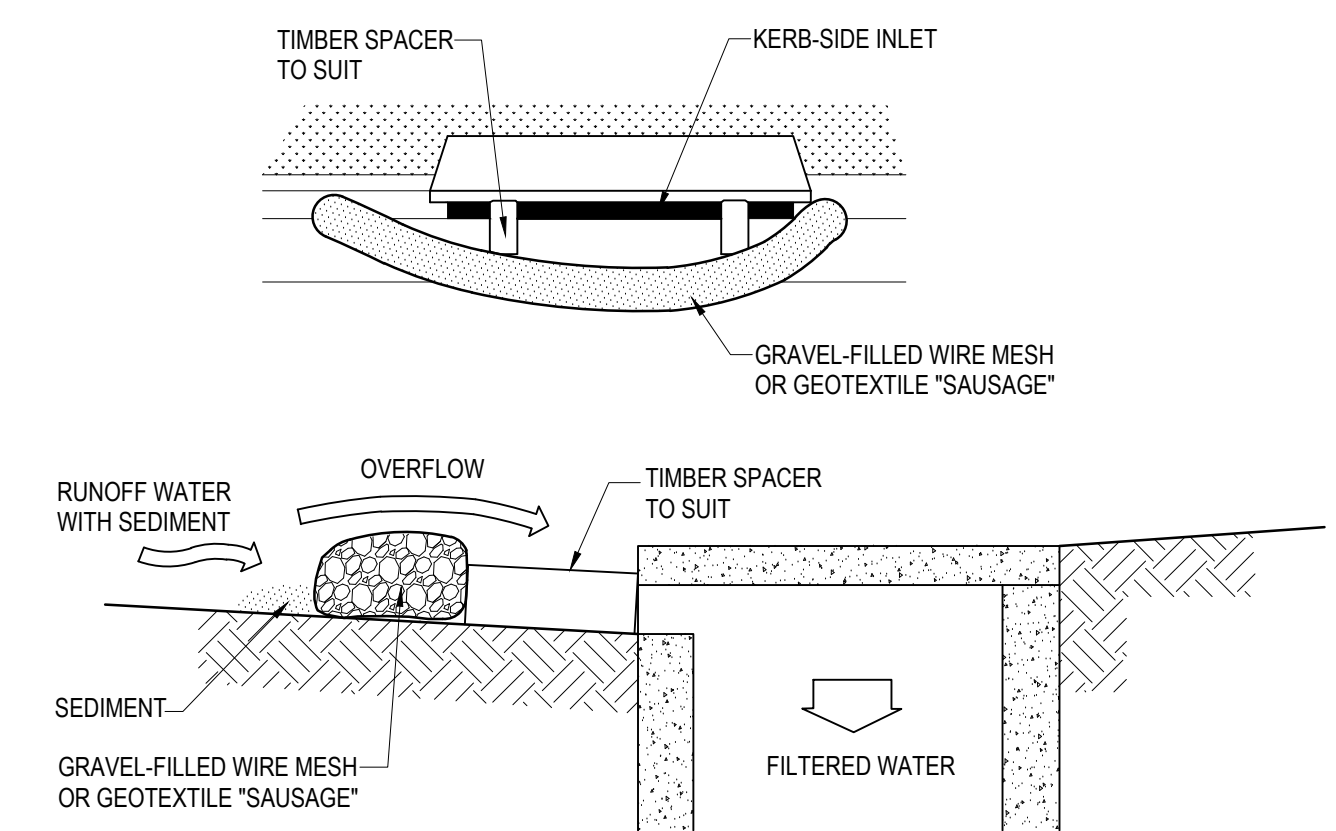


STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES
SCALE N.T.S.

- SEDIMENT FENCE 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 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m 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.



MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

1. 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.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER
N.T.S.

FOR CONSTRUCTION ORDER ONLY

SURVEY INFORMATION SURVEYED BY: CRUX SURVEYING AUSTRALIA DATUM: AHD ORIGIN OF LEVELS: SSM 99001, RL 53.939 (AHD) <table><tr><td>02</td><td>ISSUED FOR SSDA</td><td>MS</td><td>AF</td><td>25.08.2020</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>01</td><td>ISSUED FOR INFORMATION ONLY</td><td>KR</td><td>AF</td><td>07.04.2020</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>REVISION</td><td>AMENDMENT</td><td>DRAWN</td><td>DESIGNED</td><td>DATE</td><td>REVISION</td><td>AMENDMENT</td><td>DRAWN</td><td>DESIGNED</td><td>DATE</td></tr></table> Client KINCOPPAL ROSE BAY SCHOOL Architect BVN Architects This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas. Level 5, 79 Victoria Avenue Chatswood NSW 2067 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au Project KINCOPPAL ROSE BAY SCHOOL NEW SOUTH HEAD ROAD, ROSE BAY, NSW Title SEDIMENT AND EROSION CONTROL DETAILS Drawn J.Knight Designed I.Ahmed Date JAN 2020 Checked A.Francis Approved A.Francis Scale @A1 NTS Drawing number 19949_DA_SE03 Revision 02										02	ISSUED FOR SSDA	MS	AF	25.08.2020						01	ISSUED FOR INFORMATION ONLY	KR	AF	07.04.2020						REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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