142 LAMBETH STREET, PANANIA PROPOSED BOARDING HOUSE DEVELOPMENT

STORMWATER CONCEPT PLANS

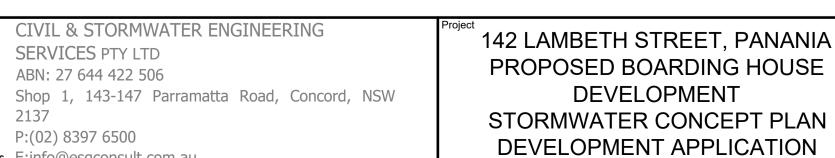


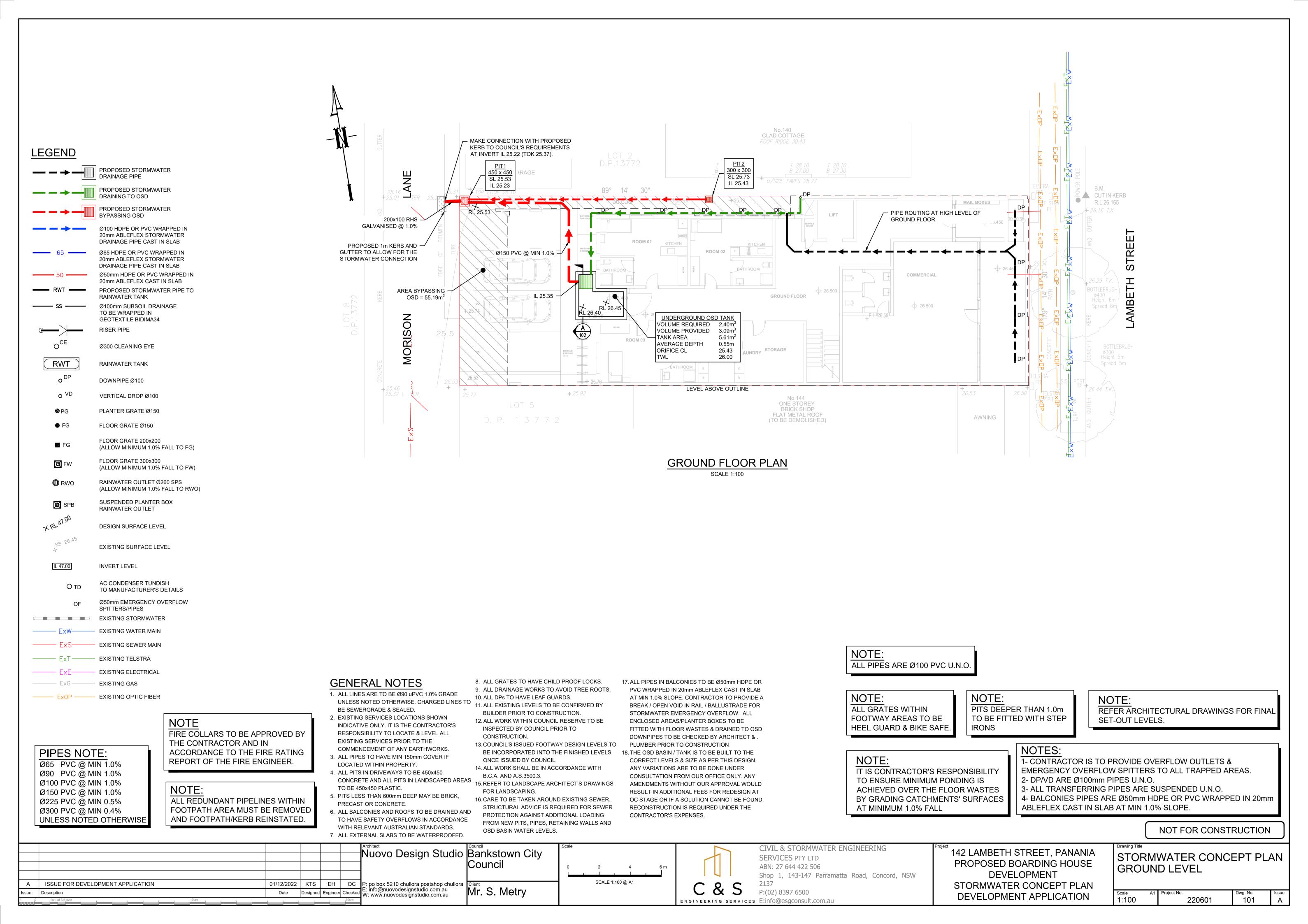
LOCALITY PLAN

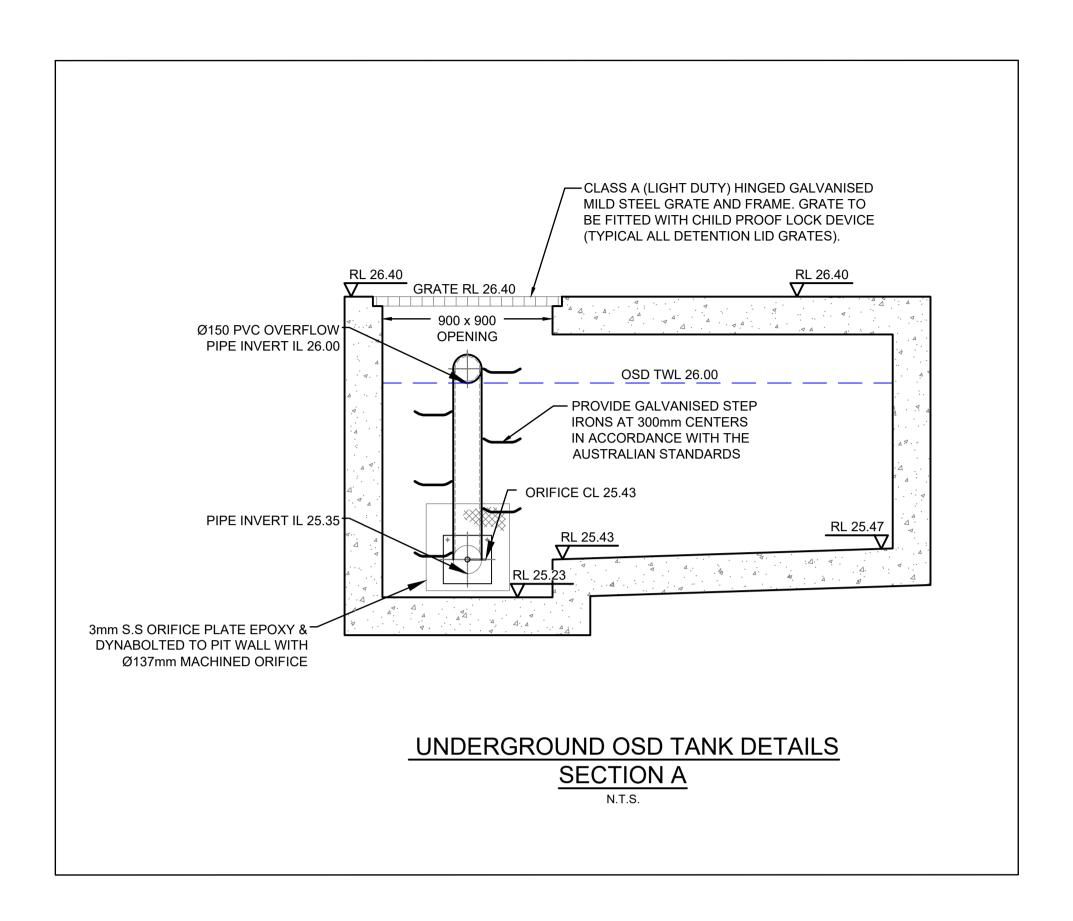
DRAWING INDEX						
Drawing No. DESCRIPTION						
000	COVER SHEET PLAN					
101	STORMWATER CONCEPT PLAN GROUND LEVEL					
102	ON-SITE DETENTION DETAILS AND CALCULATION SHEET					
103	SEDIMENT & EROSION CONTROL PLAN & DETAILS					

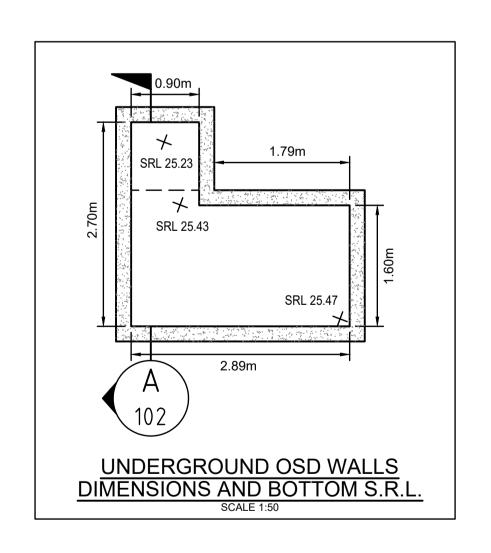
NOT FOR CONSTRUCTION

					Nuovo Design Studio	Bankstown City Council	Scale		CIVIL & STORMWATER EI SERVICES PTY LTD
						Couricii			ABN: 27 644 422 506 Shop 1, 143-147 Parramatt
Α	ISSUE FOR DEVELOPMENT APPLICATION 01/12/2022	2 KTS	EH	OC	P: po box 5210 chullora postshop chullora			$C \circ C$	2137
Issue	Description Date	Designed	Engineer	Checked	E: info@nuovodesignstudio.com.au W: www.nuovodesignstudio.com.au	Mr. S. Metry			P:(02) 8397 6500
-1 0	1cm at full size			20cm	, , , , , , , , , , , , , , , , , , ,	•		ENGINEERING SERVICES	E:info@esgconsult.com.au



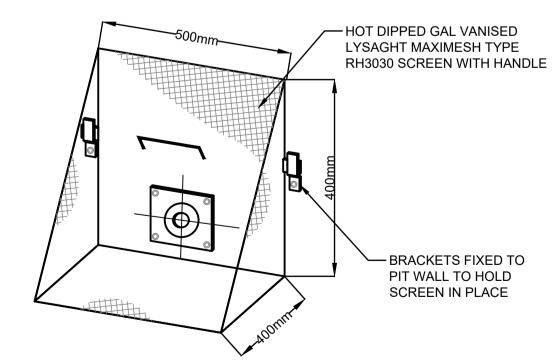




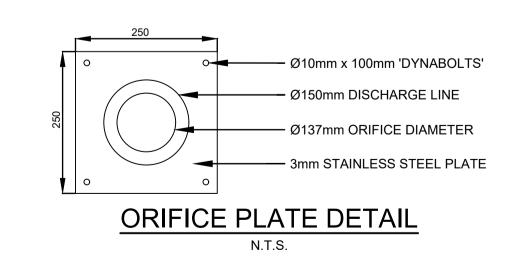


ESG220601						
Maintenance Action	Frequency	Responsibility	Procedure			
General						
Inspect roof drainage system of building and remove any debris/sludge	Six Monthly	Strata/Maintenance Contractor	Remove any leaves or debris and sludge from gutters of building and flush downpipes of building to remove any blockages. Pits downstream of downpipes to be cleaned of flushed debris.			
Inspect pits and trench drains on site and remove debris/litter/sludge	Monthly or following Rain Period	Strata/Maintenance Contractor	Remove grate. Remove any debris/litter/sludge from within pits.			
Inspect site for litter and floatable debris and remove	Fortnightly	Strata/Maintenance Contractor	Remove litter from site and sweep all driveway and pathways in order to remove leaves or sediments that may enter into the drainage system.			
Outlets						
Inspect grate for blockages	Six monthly	Owner	Remove any mulch or debris blocking grate.			
Inspect storage area to remove items that may cause blockage	Six monthly	Owner	Inspect storage area and remove all material which may float and be carried to grates.			
Inspect actual storage volume to design volume.	Annually	Maintenance Contractor	Calculate available volume and compare to volume on work as executed plan, if loss is greater than 5%, arrange for rectification and notify council of proposal.			
Inspect & remove any blockage of orifices	Six monthly	Strata/Maintenance Contractor	Remove grate & screen to inspect orifice. See plan for location of outlets			
Check attachment of orifice plates to wall of chamber and/or pit (gaps less than 5 mm)	Annually	Strata/Maintenance Contractor	Remove grate and screen. Ensure plates are mounted securely, tighten fixings if required. Seal gaps as required.			
Check orifice diameters are correct and retain sharp edges	Five yearly	Strata/Maintenance Contractor	Compare diameter to design (see Work-as-Executed) and ensure edge is not pitted or damaged.			
Inspect screen and clean	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screens if required to clean them.			
Check attachment of screens to wall of chamber or pit	Annually	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Ensure screen fixings are secure. Repair as required.			
Check screen(s) for corrosion	Annually	Strata/Maintenance Contractor	Remove grate(s) and examine screen(s) for rust or corrosion, especially at corners or welds.			
Inspect grate(s) for damage or blockage	Six monthly	Strata/Maintenance Contractor	Check both sides of a grate for corrosion, (especially corners and welds) damage or blockage.			
Inspect outlet pipe & remove any blockage	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Ventilate underground storage if present. Check orifices and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstreaside of return line.			
Check step irons for corrosion	Annually	Strata/Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage			
Check fixing of step irons is secure	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and ensure fixings are secure prior to placing weight on step iron.			
Storage						
Inspect storage & remove any sediment/sludge in pit	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Remove sediment/sludge build-up.			
Inspect internal walls of storage (and external, if appropriate) for cracks or spalling	Annually	Strata/Maintenance Contractor	Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.			
Inspect & remove any debris/litter/mulch etc blocking grates	Six monthly	Strata/Maintenance Contractor	Remove blockages from grate(s) and check if storage is blocked.			
Inspect areas draining to the storage(s) & remove debris/mulch/litter etc likely to block screens/grates	Six monthly	Strata/Maintenance Contractor	Remove debris and floatable material likely to be carried to grates.			
Compare storage volume to volume approved. (Rectify if loss > 5%)	Annually	Strata/Maintenance Contractor	Compare actual storage available with Work-as Executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.			
Inspect storages for subsidence near pits	Annually	Strata/Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.			

DRAINS RESULTS							
STORM EVENT (ARI)	PRE-DEV INTERNAL FLOWS (L/s)	TOTAL POST-DEV FLOWS (L/s)					
5YR	16	16					
10YR	18	18					
20YR	21	21					
50YR	23	22					
100YR	25	23					

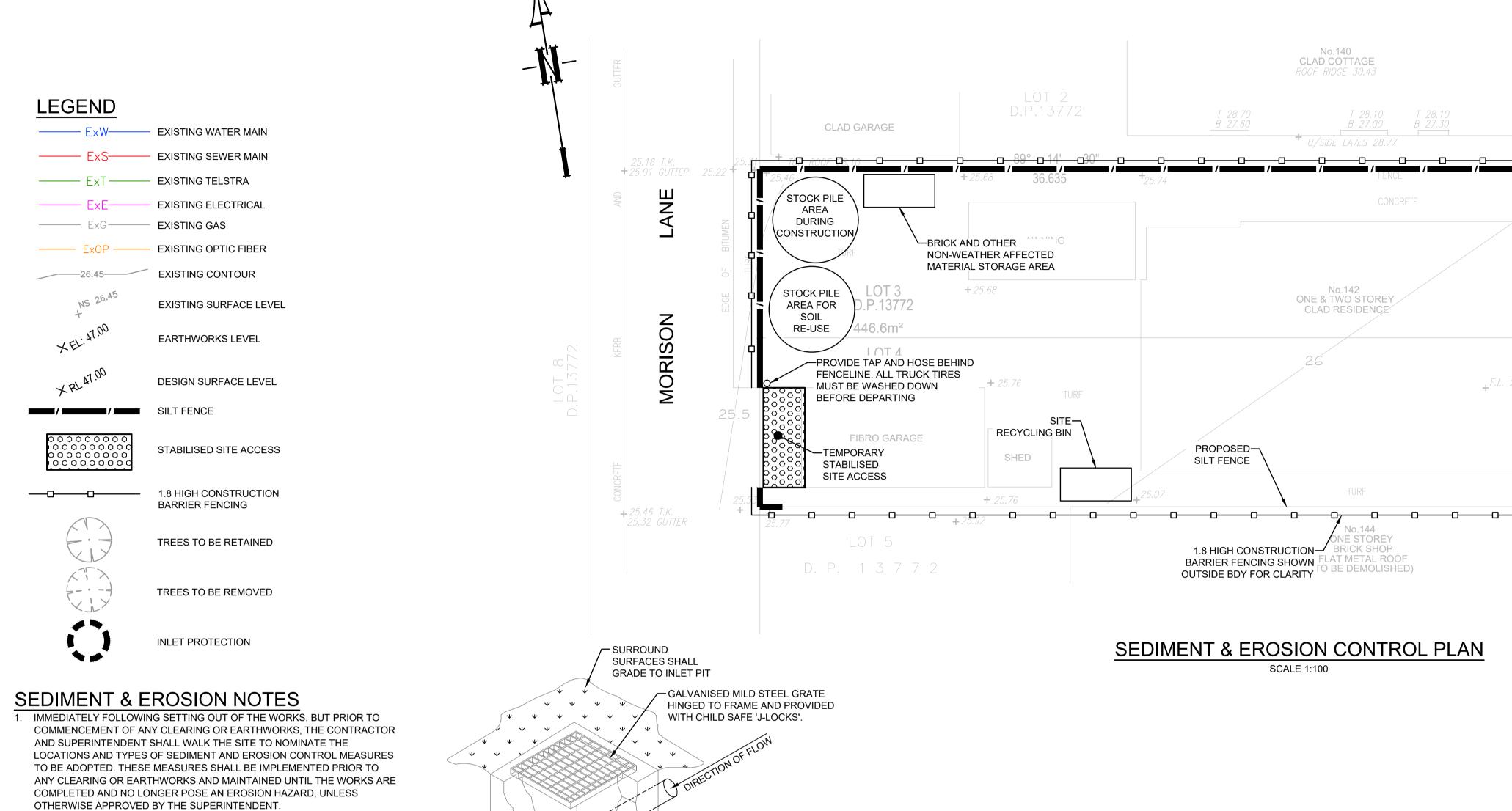






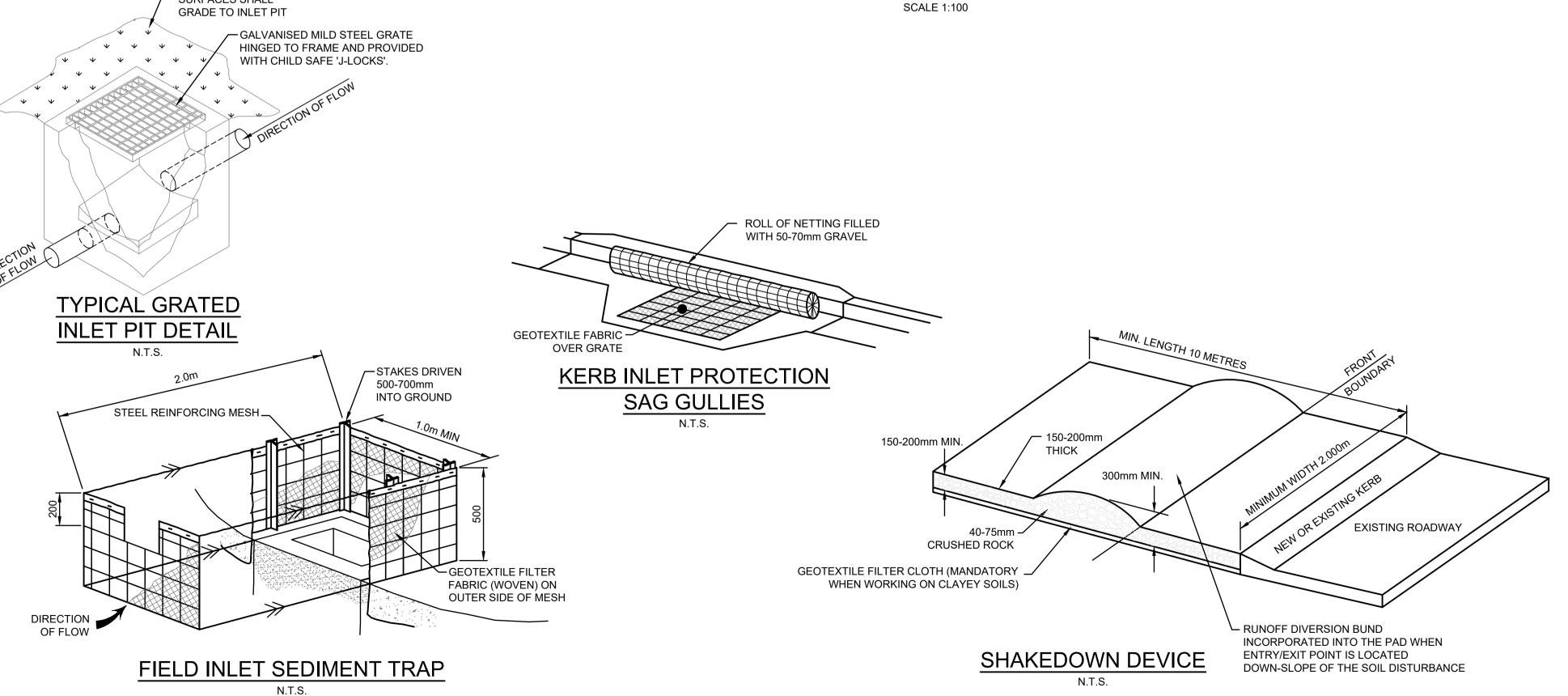
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		Nuovo Design Studio	Bankstown City Council	Scale 0 1 2 3 m	CIVIL & STORMWATER ENGINEERING SERVICES PTY LTD ABN: 27 644 422 506 Shop 1, 143-147 Parramatta Road, Concord, NSW	142 LAMBETH STREET, PANANIA PROPOSED BOARDING HOUSE DEVELOPMENT	ON-SITE DETENTION DETAILS AND CALCULATION SHEET
A ISSUE FOR DEVELOPMENT APPLICATION Issue Description 1 0 1cm at full size 10cm	01/12/2022 KTS EH OO Date Designed Engineer Chec	P: po box 5210 chullora postshop chullora E: info@nuovodesignstudio.com.au W: www.nuovodesignstudio.com.au	Mr. S. Metry	SCALE 1:50 @ A1	C&S 2137 P:(02) 8397 6500 ENGINEERING SERVICES E:info@esgconsult.com.au	STORMWATER CONCEPT PLAN DEVELOPMENT APPLICATION	Scale A1 Project No. Dwg. No. Issue As Shown 220601 102 A



- 2. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION, AT ITS OWN COST, OF ANY DISTURBANCE BEYOND THOSE AREAS.
- PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
 PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY
- SUPERINTENDENT.
- 5. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
- 6. ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
- WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
- 8. NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
- 9. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGH OUT CONSTRUCTION.
- IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
- 11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON-SITE BY THE SUPERINTENDENT.
- 12. THE LOCATION OF EROSION AND SEDIMENTATION CONTROLS WILL BE
- DETERMINED ON SITE BY THE SUPERINTENDENT.

 13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE
- 13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.
- 14. ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE COORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.



1380 SILT STOP" OR
APPROVED EQUIVALENT

DRAPE BOTTOM 150mm
OF SILT FENCE IN
TRENCH, BACKFILL WITH
SOIL AND COMPACT TO
ENSURE ANCHORAGE.

1.0m (MIN) LONG FENCE —

POSTS. 'T' OR 'U' TYPE

STEEL OR 50mm HARDWOOD

FILTER CLOTH "PROPEX —

SILT FENCE DETAIL

SILT FENCE NOTES:

CUT IN KERB R.L.26.165

TEMPORARY—/ TEMPORARY—

AWNING

SITE TOILET SITE OFFICE

- 1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR ATTACHMENT BELTS.
- POSTS SHOULD NOT BE SPACED MORE THAN 3.0m APART.
 WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150mm AND FOLDED.
- 4. FOR EXTRA STRENGTH TO SILT FENCE, WOVEN WIRE (14mm GAUGE, 150mm MESH SPACING) TO BE FASTENED SECURELY
- BETWEEN FILTER CLOTH AND POSTS BY WIRE TIES OR STAPLES
 5. INSPECTIONS SHALL BE PROVIDED ON A REGULAR BASIS,
 ESPECIALLY AFTER RAINFALL AND EXCESSIVE SILT DEPOSITS
- REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE

 6. SEDIMENT FENCES SHALL BE CONSTRUCTED WITH SEDIMENT TRAPS AND EMERGENCY SPILLWAYS AT SPACINGS NO GREATER THAN 40m ON FLAT TERRAIN DECREASING TO 20m SPACINGS ON STEEP TERRAIN.

NOT FOR CONSTRUCTION

CIVIL & STORMWATER ENGINEERING Nuovo Design Studio Bankstown City 142 LAMBETH STREET, PANANIA **SEDIMENT & EROSION** SERVICES PTY LTD PROPOSED BOARDING HOUSE Council CONTROL PLAN ABN: 27 644 422 506 DEVELOPMENT Shop 1, 143-147 Parramatta Road, Concord, NSW & DETAILS SCALE 1:100 @ A1 2137 ISSUE FOR DEVELOPMENT APPLICATION 01/12/2022 | KTS | EH | OC | P: po box 5210 chullora postshop chullora | Client STORMWATER CONCEPT PLAN & S Mr. S. Metry E: info@nuovodesignstudio.com.au P:(02) 8397 6500 Issue Description Date Designed Engineer Checked DEVELOPMENT APPLICATION W: www.nuovodesignstudio.com.au 220601 103 As Shown ENGINEERING SERVICES E:info@esqconsult.com.au