NOTES

- 1. ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 2. THE CONTRACTORS SHALL LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- 4. ALL PITS AND GRATES IN DRIVEWAYS AND TRAFFICABLE AREAS SHALL BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- 5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:2003 AND COUNCIL SPECIFICATIONS.
- 6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY.
 DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE
 DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN
 STANDARDS.
- 7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS, ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- 8. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES

<u>SYMBOLS</u>

F.F.L. FINISHED FLOOR LEVEL

T.K. TOP OF KERB

RL PIT SURFACE LEVEL

IL INVERT LEVEL

STORMWATER DRAINAGE PIPE

DOWNPIPE TO RAINWATER TANK

DP 100ø DOWN PIPE (U.N.O.)

SPREADER

IO INSPECTION EYE

MASONRY RETAINING WALL

SFW FLOOR WASTE 150ø

RAIN WATER TANK

RAIN WATER TANK
GRATED INLET PIT

OVERLAND FLOW PATH
ES— EMERGENCY SPILTTER

VD● VERTICAL DROP

•EDP EXISTING 1000 DOWN PIPE (U.N.O.)

EXISTING STORMWATER DRAINAGE PIPE

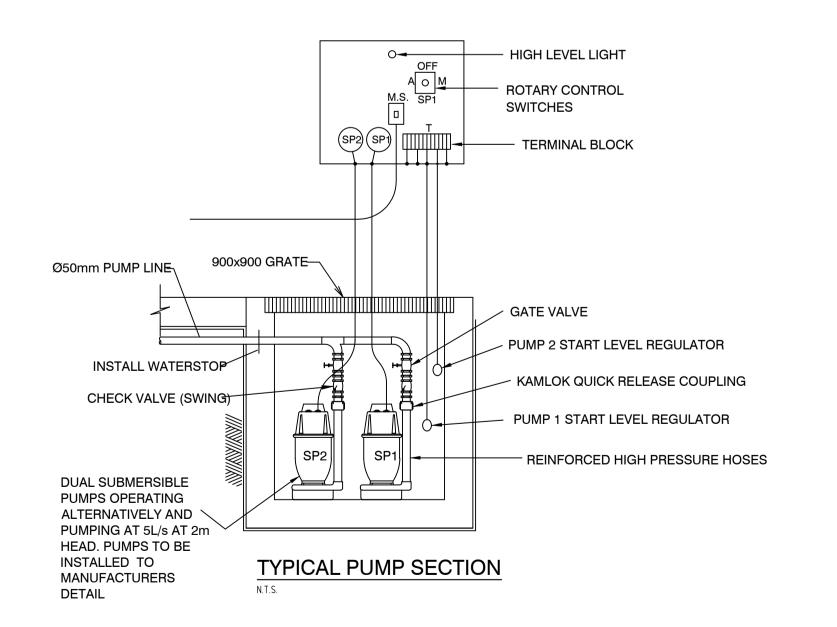
GRATED DRAIN

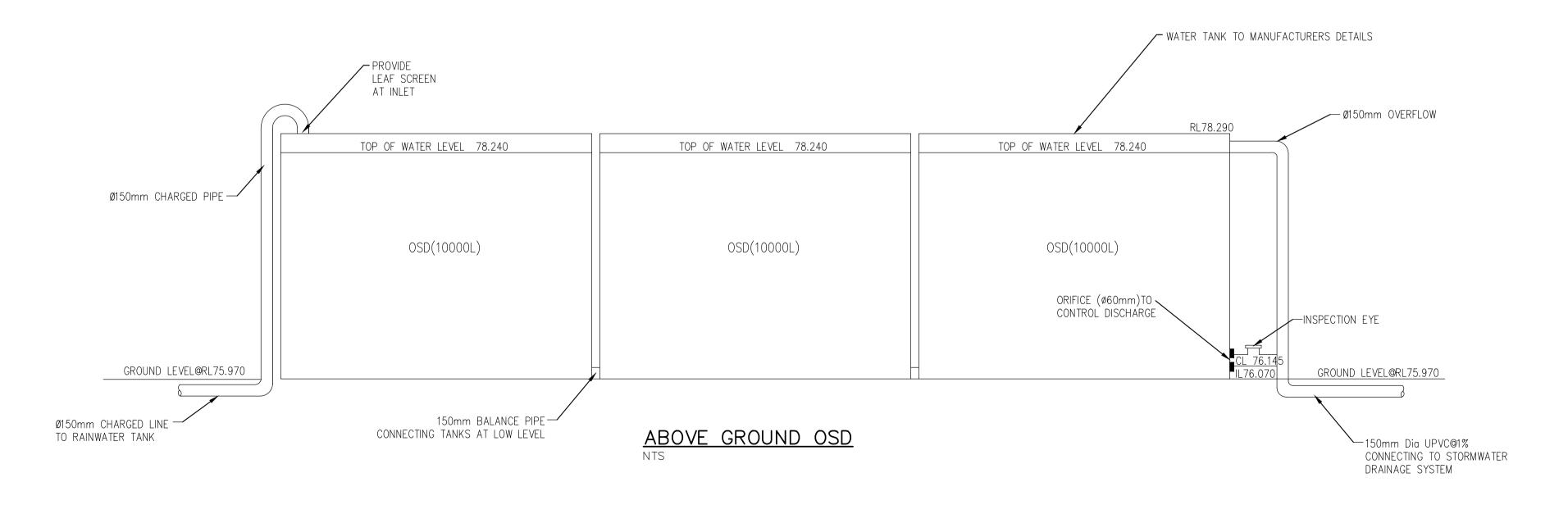
ø50 PRESSURE + ø150 OVERFLOW PIPE TO PIT ø100 TO PUMP OU/T PIT 3x10000L ABOVE GROUND / -200 GRATED DRAIN AT 1% / TOP OF TANK RL 78.290 IL OF PIPE 76.070 TWL 78.240 \PUMP-OUT SYSTEM RL 75.580 IL 74.200 COMPLETE WITH 2 x SUBMERSIBLE PUMPS WITH DUTY OF 5L/s AT 2m HEAD, FLOAT SWITCH AND CONTROL PANEL TO MANUFACTURER'S SPECIFICATIONS.

BASEMENT STORMWATER DRAINAGE PLAN
SCALE 1:100

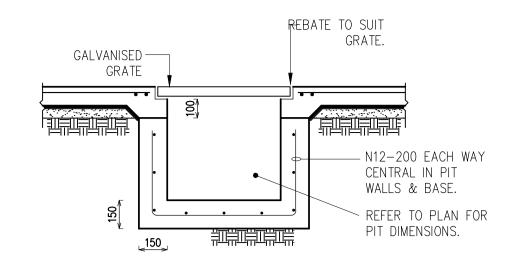
.....

GRATED DRAIN AND PUMP OUT PITESHALL BE REGULARLY MAINTAINED TO ENSURE ADEQUACY AND PREVENT ANY PIPE BLOCKAGE.

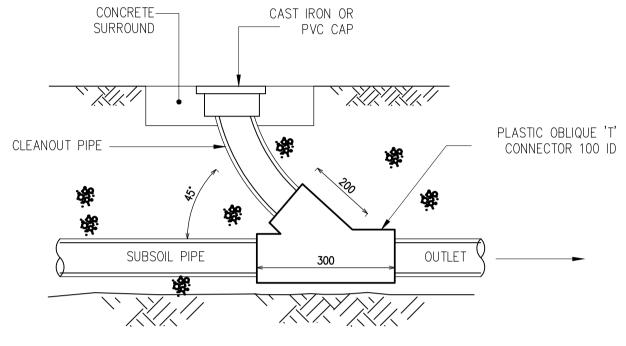




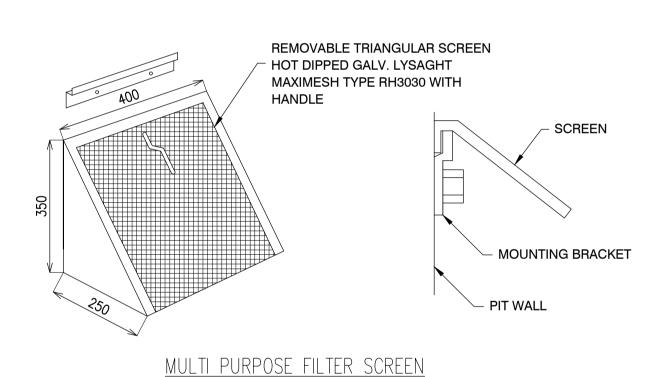
1 ICCHEN END ADDDAVAL 2	79707777 I	DRAWING TITLE: BASEMENT STORMWATER MANAGEMENT PLAN	M/ 0404 719 E/ info@struct	932 taconsulting.com	struct	SCALE AT A3: 1:100 JOB REF NO.
		ADDRESS: 9 LINCOLN STREET, EASTWOOD	A/ PO Box 92 DRAWN: PB	20, Concord 2137 DESIGNED: PB	Consulting Engineer	CO6208 DRAWING NO. H01



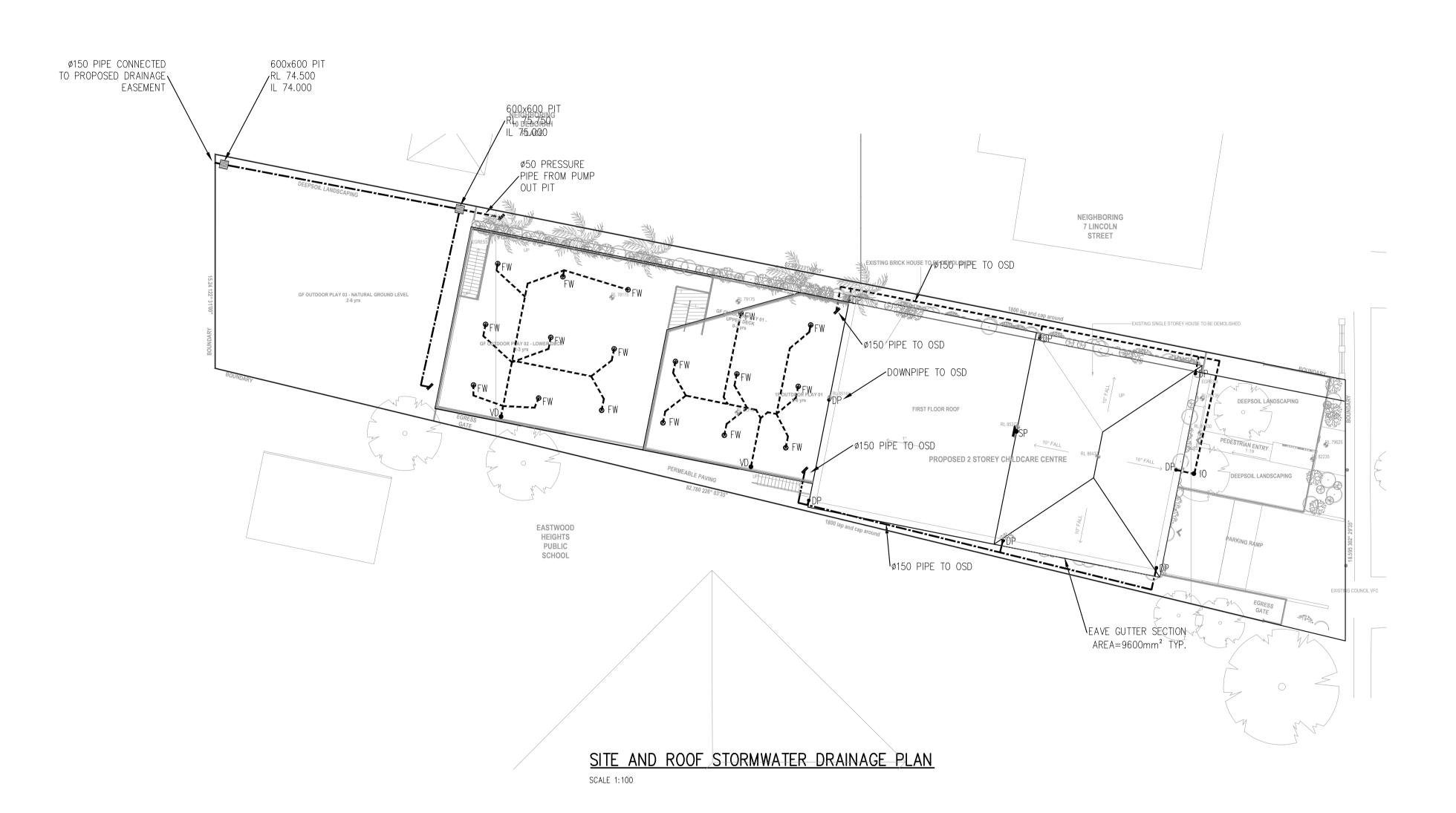
TYPICAL PIT DETAIL INSITU PIT DETAILED OR APPROVED PRECAST BY OTHERS PLASTIC PIT MAY BE USED IN NON-TRAFFICABLE AREAS



TYPICAL INSPECTION EYE DETAIL



PRODUCT CODE: MMMPS (MASCOT ENGINEERING)



NOTES

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- 2. THE CONTRACTORS SHALL LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
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- 8. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES

<u>SYMBOLS</u>

F.F.L. FINISHED FLOOR LEVEL TOP OF KERB PIT SURFACE LEVEL INVERT LEVEL STORMWATER DRAINAGE PIPE DOWNPIPE TO RAINWATER TANK 100ø DOWN PIPE (U.N.O.) SPREADER INSPECTION EYE 10 MASONRY RETAINING WALL ⊗FW FLOOR WASTE 150ø

> RAIN WATER TANK GRATED INLET PIT

GRATED DRAIN OVERLAND FLOW PATH

EMERGENCY SPILTTER VERTICAL DROP

EXISTING 1000 DOWN PIPE (U.N.O.) EXISTING STORMWATER DRAINAGE PIPE

AMENDMENTS DATE 1 ISSUED FOR APPROVAL 2 ISSUED FOR DA 9 LINCOLN STREET, EASTWOOD

DRAWING TITLE: SITE STORMWATER MANAGEMENT PLAN ADDRESS:

M/ 0404 719 932 E/ info@structaconsulting.com A/ PO Box 920, Concord 2137

DRAWN: PB

DESIGNED: PB

struct

SCALE AT A3: 1:100 JOB REF NO.

C06208

Consulting Engineers DRAWING NO. HO2

EROSION CONTROL NOTES

- ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, 3rd EDITION' PRODUCED BY THE NSW DEPARTMENT OF HOUSING.
- ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE
 PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION
 WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT
 REMOVED REGULARLY DURING CONSTRUCTION
- 3. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.
- INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY
 TO COLLECT SILT LADDEN WATER
- 5. NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.

SYMBOLS

EXISTING CONTOURS

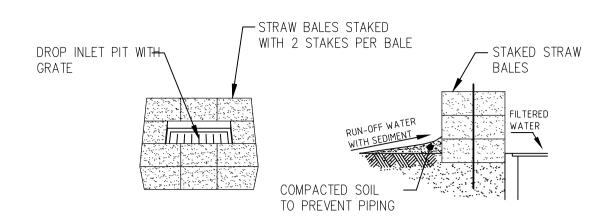
SILT FENCE

WIRE MESH FENCE

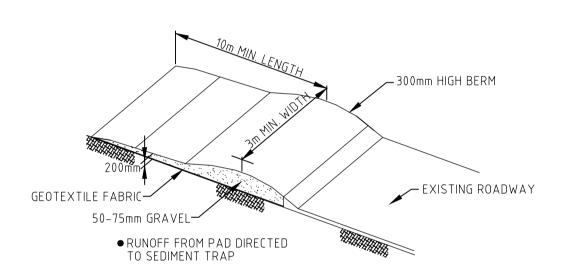
NOTES: SOIL & WATER MANAGEMENT

ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY SITE MANAGER.
 MINIMISE DISTURBED AREAS.
 ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
 DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.
 ROADS AND FOOTPATH TO BE SWEPT DAILY.
 NO MATERIAL TO BE STORED ON FOOTPATH.
 IF YOU DO NOT COMPLY YOU MAY BE LIABLE TO A \$1500 FINE.

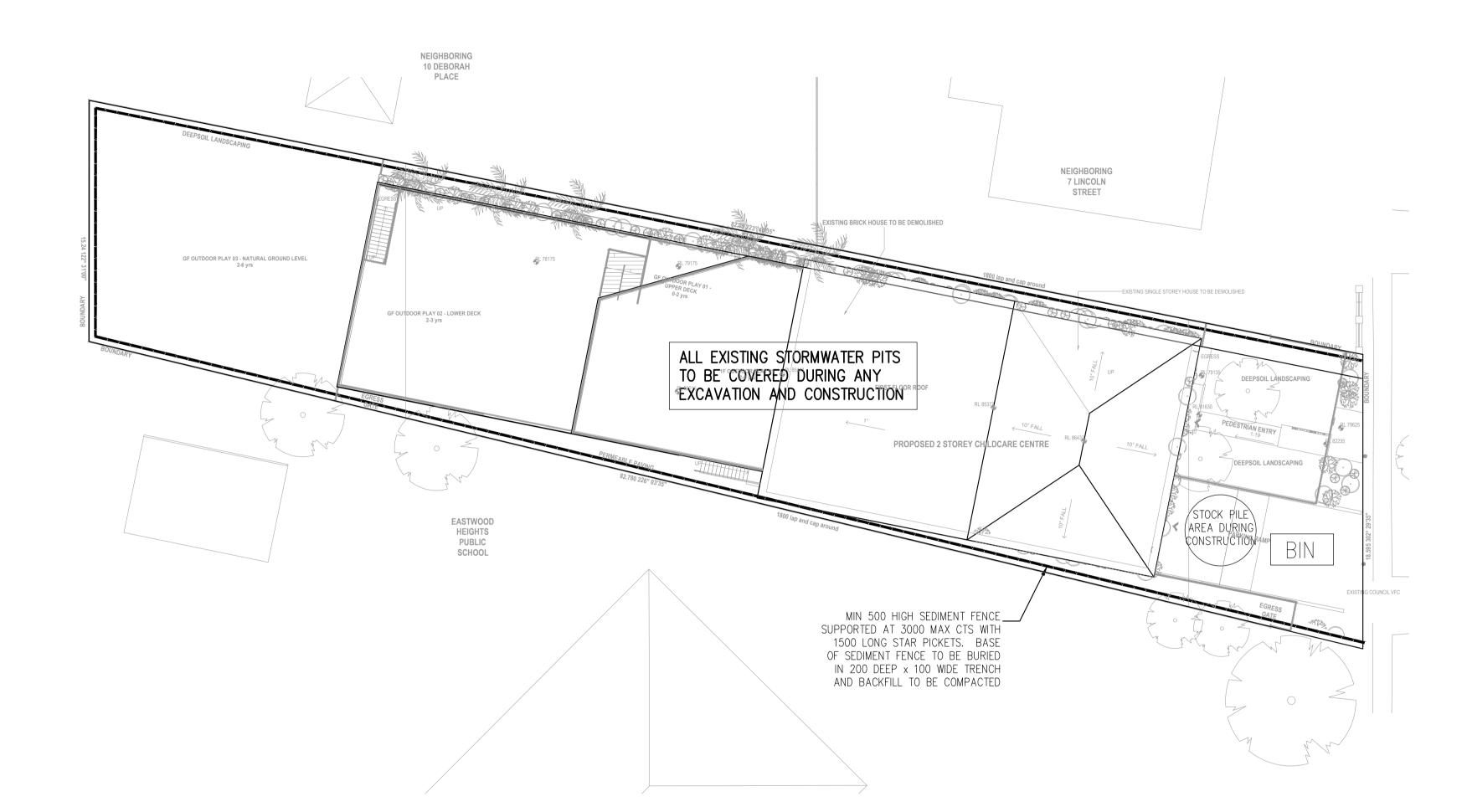
Ø50 PUMP LINE



STRAW BALE DROP INLET SEDIMENT TRAP DETAIL N.T.S.

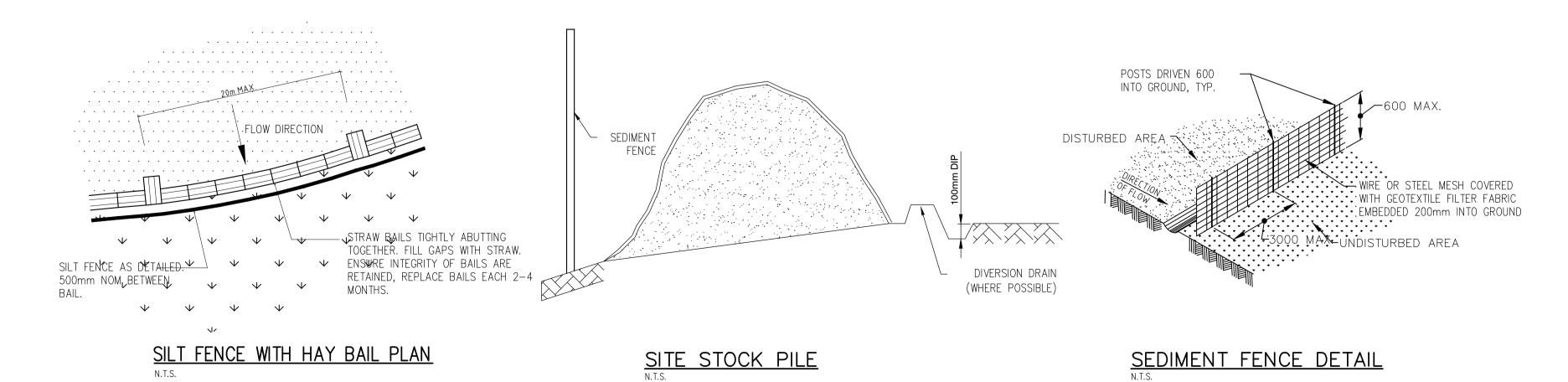


TEMPORARY CONSTRUCTION ENTRANCE/EXIT



EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:100



NO.		DATE	DRAWING TITLE:	M/ 0404 719 93	37	ctruct a	SCALE AT A3: 1:100
1	ISSUED FOR APPROVAL ISSUED FOR DA	29/07/22	SEDIMENT AND EROSION CONTROL PLAN	E/ info@structac		struct	JOB REF NO.
	ISSUED FUR DA	10/10/22		A/ PO Box 920,	ğ .		C06208
			ADDRESS:		0011001	Consulting Engineers	DRAWING NO.
			9 LINCOLN STREET, EASTWOOD	DRAWN: PB	DESIGNED: PB	Jonsulling Lingilieers	H03

CITY OF RYDE

ON-SITE DETENTION CALCULATION SHEET

DEVELOPMENT TYPE:ADDRESS:_ 9 LINCOLN ST, EASTWOOD				
Optobus 24 7 - 2 - 4)	/7	- O) (F	· · · · · - · - · · · · · · · · · · · ·	
Catchment Zone (Zone 1)	(Zon	e 2) (Eas	,	
Site Area		1361	_ m²	(A)
65% Site Area	ata)	884.85 841	_ m²	(D)
Total Proposed Impervious Area (roofs, driveways, hardstand	eic)		_ m² _ %	(B)
% of site impervious	<u>0.62</u> 755	– ⁷⁰ m ²	(C)	
Impervious area draining to the Storage Facility	0	– ''' m²	(C)	
Pervious area draining to the Storage Facility	\	755	_	(D)
Total area draining to the Storage Facility (impervious and pervious	areas)	606	_ m² m²	(E)
Pervious area bypassing the Storage Facility		0	_ ''' m²	(F)
Impervious area bypassing the Storage Facility	4		_''''	(G)
$\frac{(C)+(G)}{(C)}=$	1.	1	_	(L)
Permitted Site Discharge (PSD) rate per m ² Catchments in Zones 1 & 2 If (G)=0 then PSD = 0.0265 l/sec/m^2 If (G)=0 then PSD = $0.0265x(L)^{-1.37} \text{ l/sec/m}^2$ Eastwood Catchment If (G)=0 then PSD = 0.0210 l/sec/m^2				41)
If (G)=0 then PSD = $0.0210x(L)^{-1.37}$ l/sec/m ² PERMITTED SITE DISCHARGE (E) x (J) x Storage Volume per m ² (K) = $0.0275 \text{ m}^3/\text{m}^2$ for zone 1 or (K) = $0.0255 \text{ m}^3/\text{m}^2$ for zone 2 or (K) = $0.0300 \text{ m}^3/\text{m}^2$ for Eastwood Catchment			15.85	(J) 55 I/s
SITE STORAGE REQUIREMENT ((E) + (G)) x (K)x(1.2)*+	x_	(x1.2) *	27.	, ,
Allowance for Rainwater Tank offset (5000 litre Max, see clause 3.1.8) NOTE * If OSD is provided in a landscaped surface basin the volume must be increased.		%		m ³
OUTLET CONTROL - using a Sharp Edged Orifice Plate Height Difference between top water level and Centre of Orifice (m)		2.09		(H)
ORIFICE DIAMETER (mm) = $21.9 \sqrt{\frac{PSD}{\sqrt{(H)}}}$			60	mm
Should pipe and pit losses be used to control outflow, the calculations	s are to	be attached.		