PROPOSED DEVELOPMENT

34-36 Light St & 42 Walker St, Casino, NSW greenview Job No: 230192

FARTHWORKS

DEVELOPED AREA

EARTHWORK NOTES

PRIOR TO ANY BULK EXCAVATION.

MOISTURE CONTENT ± 2%.

FILL TO APPROVAL.

COMMENCING FILL OPERATIONS.

ALLOWED FOR BY THE BUILDER

RCP CONVENTIONAL

DRAINAGE INSTALLATION

AND D/6 CLEARANCE FOR PIPES > 1200 DIA.

WITH THE STANDARDS AND AS FOLLOWS

FOLLOWING GRADINGS:

OTHERWISE SPECIFIED.

FROM SITE, EXCEPT TOP SOIL FOR RE-USE.

CUT AND FILL OVER THE SITE TO LEVELS REQUIRED.

WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES.

1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL

2. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH,

PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS

OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH

PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND,

PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM

EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING

PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN

8. FOR ON SITE FILLING AREAS, THE CONTRACTOR SHALL TAKE LEVELS

OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO

9. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS

WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH

10. FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF

98% STANDARD (AS 1289 5.1.1). MAXIMUM DRY DENSITY AT OPTIMUM

11. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2

13. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL

SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS

INSTALLATIONS & ROAD CROSSINGS

SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN

BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH

(<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH

SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY

A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN

THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR

PIPES < 600 DIA, 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA

4. BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE

a.COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE

% MASS PASSING 100 50-100 20-90 10-60 0-25 0-10

-AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW

c.BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE

BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS

d.THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED

RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR

COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN

ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL

DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB &

1. ALL ROOF DRAINAGE IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE

WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING

. DOWNPIPES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR

ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS

REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT

DAMAGE. UNLESS APPROVED OTHERWISE BY THE PROJECT ARCHITECT.

ALL EAVES GUTTERS ARE TO BE DESIGNED TO THE 5% AEP (20YR) STORM

TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD

ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS

e.COMPACTION TESTING SHALL BE CARRIED OUT BY AN

PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726.

b.BEDDING DEPTH UNDER THE PIPE TO BE 100mm.

REPRESENTS THE 'HAUNCH ZONE.'

GUTTER OR PAVEMENT

AS3500.3, NCC AND COUNCIL'S SPECIFICATIONS.

ALL DOWNPIPES TO HAVE LEAF GUARDS

ROOF DRAINAGE

FINAL LOCATIONS

19 | 2.3600 | 0.6000 | 0.3000 | 0.1500 | 0.0750

THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL

1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN

ACCORDANCE WITH THESE DRAWINGS, THE COUNCIL

14. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP

12. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ.

TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA

BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO

MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL

FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR

I ABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE

LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE

COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM

SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE

EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY

FENCES AND DEBRIS ETC. TO THE EXTENT OF THE PROPOSED

GENERAL NOTES

- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION.
- 2. THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN. 3 IT IS THE RESPONSIBILITY OF THE TENDERER TO SEEK CLARIFICATION WHERE DOCUMENTATION IS CONFLICTING OR
- UNCLEAR, WHERE NO CLARITY IS OBTAINED. THE TENDERER IS TO ALLOW FOR BOTH INTERPRETATIONS IN THEIR PRICING. 4. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN
- ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER. 5. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE
- DIRECTED OR REMOVED FROM SITE. 6. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH
- 7. ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE
- CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S 8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL
- PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED.
- 9. THESE PLANS SHALL BE A READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE 10. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC
- UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
- 11. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION
- 12. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE
- 13. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE COLLARS FITTED EXCEPT FOR CLASS 1 BUILDINGS
- 14. ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1.0m SHALL BE PROVIDED WITH GALVANIZED STEP IRON'S AT 300 mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN
- ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS4198-1994. 15. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON SITE DETENTION STORAGE SHALL BE OF A NON-FLOATABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL, BARK MULCHING
- SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA. 16. PRIOR TO COMMENCING ANY WORKS ON THE SITE. THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S
- KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER 17. GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY
- SURVEY INFORMATION PROVIDED ON THIS DRAWING. 18. ALL LEVELS SHOWN ARE EXPECTED TO BE TO A.H.D.
- 19. ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN MILLIMETRES, UNLESS NOTED OTHERWISE
- 20. THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN PROVIDED BY THE ARCHITECT. 21. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT
- BY A REGISTERED SURVEYOR. 22. W.A.E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED
- PRIOR TO CERTIFICATION OF DRAINAGE 23. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT
- APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR
- CONSTRUCTION PURPOSES WITHOUT WRITTEN APPROVAL 24. WATER TREATMENT DEVICES TO STRICTLY COMPLY WITH MANUFACTURING SPECIFICATIONS.

RAINWATER REUSE SYSTEM NOTES 1. RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS

- WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS) 2. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND
- 3. PROVIDE AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK
- 4. PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN WATER SUPPLY FOR FIRE FIGHTING 5. PROVIDE APPROPRIATE FLOAT VALVE AND/OR SOLENOID VALVES
- TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL
- 6. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS/NZ3500.1 NATIONAL
- PLUMBING AND DRAINAGE CODE. 7. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT
- BY A LICENSED ELECTRICIAN.
- 8. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER TANK SURFACE WATER INLETS ARE NOT TO BE CONNECTED.
- 9. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMPING ARE TO BE APPROVED MATERIALS TO AS/NZ3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS
- 10. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELLED 'RAINWATER' ON A METALLIC SIGN IN

(MADE IN ACCORDANCE WITH AS1345)

ACCORDANCE WITH AS1319 11. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING, WE NOTE

THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS

REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS

MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR

OPERATOR TO ENSURE THE SAFETY OF WORKERS, GREENVIEW

ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED

- SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND 12. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE
- 6. ALL EAVES GUTTER OVERFLOWS ARE TO BE IN ACCORDANCE WITH AS3500.3 SEALED UP TO GUTTER LEVEL AND BE PRESSURE TESTED AND
- 13. TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE ALL BOX GUTTERS ARE TO BE DESIGNED TO CATER TO THE 1% AEP (100YR) SATISFACTION OF THE REGULATORY AUTHORITY. THIS MAY
- 8. IN ACCORDANCE WITH AS3500.3 CLAUSE 3.7.6.G, BOX GUTTERS SHALL: REQUIRE PROVISION OF a. BE STRAIGHT (WITHOUT CHANGE IN DIRECTION)
- b. HAVE A HORIZONTAL CONSTANT WIDTH BASE (SOLE) WITH VERTICAL 13.1. PERMANENT AIR GAP 13.2. BACKFLOW PREVENTION DEVICE SIDES IN A CROSS-SECTION.
- c. HAVE A CONSTANT LONGITUDINAL SLOPE BETWEEN 1:200 AND 1:40. d. DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE OF DIRECTION SAFETY IN DESIGN NOTES (I.E. NOT TO THE SIDE): AND
 - e. BE SEALED TO THE RAINHEADS AND SUMPS 9. GREENVIEW RECOMMENDS THAT THE BUILDER VERIFIES THAT ANY AND ALL
 - BOX GUTTERS HAVE BEEN DESIGNED BY A QUALIFIED CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF WORKS
 - 10. GREENVIEW RECOMMENDS A SPECIFIC INSPECTION AND CERTIFICATION BY A QUALIFIED CIVIL ENGINEER OF ANY AND ALL BOX GUTTERS INSTALLED ON
 - THE PROJECT PRIOR TO OCCUPATION CERTIFICATE 11. ALL DOWNPIPES ARE TO BE PIPE CONNECTED INTO THE FORMAL RAINWATER
 - OR STORMWATER LINE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS

STORMWATER DRAINAGE NOTES

COUNCIL'S SPECIFICATION.

- 1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND
- 2. MINIMUM PIT DIMENSIONS ARE TO BE IN ACCORDANCE WITH AS3500.3 TABLE 7.5.2.1 WHICH PROVIDES GUIDANCE ACCORDING TO PIT DEPTH U.N.O.

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

TABLE 7.5.2.1

Depth to invert	Minimum internal dimensions mm								
of outlet	Recta	Circular							
	Width	Length	Diameter						
≤450	350	350	_						
≤600 >600 ≤900 >900 ≤1200	450 600 600	450 600 900	600 900 1000						
>1200	900	900	1000						

- PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2
- RUBBER RING JOINTED UNO. 5. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE
- CLASS 3 U.N.O. BY COUNCILS SPECIFICATION. 6. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE
- DRAWINGS
- MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO.
- ALL PIPES LOCATED IN LANDSCAPE AREAS TO HAVE 300mm COVER. WHERE NOT POSSIBLE AND COVER IS BETWEEN 150mm AND 300mm USE SEWER
- 9. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O. 10. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O
- 11. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY.
- 12. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL 13. THE MINIMUM SIZES OF THE STORMWATER DRAINAGE PIPES SHALL NOT BE LESS THAN 90mm DIA FOR CLASS 1 BUILDINGS AND 100mm DIA FOR OTHER
- CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY 14. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO PITS TO MATCH PIT INVERTS 15. ALL LANDSCAPED PITS TO BE MIN 450 SQUARE U.N.O OR LARGER AS
- REQUIRED BY AS3500.3 TABLE 7.5.2.1 16. GREENVIEW RECOMMENDS ALL COURTYARDS TO HAVE 450 SQUARE PLASTIC
- PIT INSTALLED WITH A 150mm DIA. CONNECTION TO FORMAL DRAINAGE 17. ALL DRIVEWAY PITS TO BE MIN 600 SQUARE U.N.O OR LARGER AS REQUIRED
- BY AS3500.3 TABLE 7.5.2.1 18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED
- STORMWATER DRAINAGE LINE. 19. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS, WHERE NOT
- POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND
- 20. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION WHERE APPLICABLE 21. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF
- THE OUTLET PIPE AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO
- 22. ANY VARIATION TO THAT WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY THE ENGINEER PRIOR TO THE COMMENCEMENT. 23. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY
- OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS 24. GREENVIEW RECOMMENDS ALL ACCESSIBLE GRATES TO BE FITTED WITH
- 25. ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL PRIOR TO BACKFILLING. 26. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO
- THE FINISHED LEVELS ONCE ISSUED BY COUNCIL. 27. WATER PROOF ALL CONCRETE BALCONIES & ROOFS TO ARCHITECTS DETAILS
- 28. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY 29. ALL SUBSOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE
- INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE CONSULTANT. 30. SUBSOIL DRAINAGE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO
- WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS. 31. ALL GRATES IN AREAS OF FREQUENT PEDESTRIAN TRAFFIC (IE FOOTPATHS,
- WALKWAYS, ETC.) TO BE HEELPROOF GRATE. 32. REFER ARCHITECTS DETAIL FOR GRATE FINISH (IE STAINLESS STEEL OR GALVANISED).
- 33. GRATES TO BE IN ACCORDANCE WITH TABLE BELOW:

PIT GRATE INLINE TYPE

GRATE TYPE	TRAFFIC CONDITIONS					
A - EXTRA LIGHT DUTY	FOOTWAYS AND AREAS ACCESSIBLE ONLY TO PEDESTRIANS AND PEDAL CYCLISTS.					
B - LIGHT DUTY	FOOTWAYS THAT CAN BE MOUNTED BY VEHICLES.					
C - MEDIUM DUTY	MALLS AND PEDESTRIAN AREAS OPEN TO SLOW MOVING COMMERCIAL VEHICLES.					
D - HEAVY DUTY	CARRIGEWAYS OF ROADS AND AREAS OPEN TO COMMERCIAL VEHICHLES.					
TABLE AS PER AS3996 - 2006. ENGINEER TO BE NOTIFIED IF LOAD CONDITIONS LISTED ABOVE ARE EXCEEDED.						

32. COVER TO PIPE TO BE AS PER TABLE BELOW:

COVER TABLE

LOCATION	PIPE TYPE	COVER
LANDSCAPE	PVC	300
LANDSCAPE (SINGLE DWELLING)	PVC	100
UNDER TRAFFICABLE AREA	PVC	100 BELOW UNDERSIDE OF PAVEMENT
CONCRETE	STEEL	NIL BELOW UNDERSIDE OF PAVEMENT
ROADS	RCP	500 BELOW UNDERSIDE OF PAVEMENT

STORMWATER DRAINAGE NOTES CONTINUED

- 33. GREENVIEW'S STORMWATER SYSTEM HAS BEEN DESIGNED TO CAPTURE SURFACE RUNOFF FROM THE SITE ITSELF BUT DOES NOT INCORPORATE SPECIFIC GROUNDWATER CAPTURE MECHANISMS, IN SOME CASES. GROUNDWATER INUNDATION MAY BE A SIGNIFICANT SOURCE OF WATER DURING A STORM EVENT GREENVIEW RECOMMENDS THAT ALL RETAINING WALLS CLOSE TO HABITABLE AREAS BE FITTED WITH AN IMPERMEABLE
- MEMBRANE AND SUBSOIL DRAINAGE TO PREVENT GROUNDWATER 34. GREENVIEW RECOMMENDS ALL IN-GROUND STORMWATER PIPE RUNS ARE SET OUT BY THE BUILDER PRIOR TO COMMENCEMENT OF WORKS. WHERE
- 300MM COVER IS NOT ACHIEVED, NOTIFY ENGINEER. 35. WHERE STORMWATER DRAINAGE WORKS ARE TO BE UNDERTAKEN PRIOR TO THE CONSTRUCTION OF THE BUILDING, THE BUILDER IS TO SET OUT THE FLOOR LEVELS AND ENSURE PROPOSED STORMWATER DRAINAGE LEVELS AND BUILDING LEVELS ARE COMPATIBLE. NOTIFY ENGINEER IMMEDIATELY IF

ON-SITE DETENTION

- 1. ON-SITE DETENTION (OSD) TANKS ARE TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND COUNCILS' SPECIFICATIONS.
- IT IS CRITICAL THAT THE MINIMUM OSD VOLUME AS CALCULATED BY THE DESIGN AND NOTED ON THESE PLANS IS ACHIEVED ON SITE. VOLUMES TO BE VERIFIED BE REGISTERED SURVEYOR AND NOTED IN THE WAE SURVEY PRIOR TO CERTIFICATION.
- OSD VOLUME MAY BE ACHIEVED IN BELOW GROUND TANK, OR ABOVE GROUND PONDING, OR RAINWATER TANK OFFSET, OR INFILTRATION/ABSORPTION SYSTEM. EACH COUNCIL HAS SPECIFIC GUIDELINES FOR HOW STORMWATER FLOWS ARE TO BE CONTROLLED AND
- PONDING AND OVERFLOW LEVELS FROM THE OSD SHALL BE NOT LESS THAN 300mm BELOW ADJACENT HABITABLE FLOOR LEVELS OF BUILDINGS AND NOT LESS THAN 150mm BELOW NON-HABITABLE FLOOR LEVELS (AS3500.1 CLAUSE

BELOW GROUND OSD TANKS

- THE HYDRAULIC CONTROL FOR THE STORAGE (USUALLY ORIFICE PLATE) SHALL BE FIRMLY FIXED IN PLACE TO PREVENT REMOVAL OR TAMPERING. A PLATE OF 3mm TO 5mm THICK STAINLESS STEEL WITH A CIRCULAR HOLE SHALL BE USED, PROVIDED: IT IS MACHINED TO 0.5mm ACCURACY
- . IT RETAINS A SHARP EDGE; AND c. THE ORIFICE DIAMETER IS NOT LESS THAN 25mm (AS 3500.3 CLAUSE 7.10.2 INSPECTION / ACCESS OPENINGS SHALL BE PROVIDED ABOVE THE LOCATION OF THE OUTLET WITH DIMENSIONS AT LEAST 600mm x 600mm OR 600mm DIAMETER FOR STORAGES UP TO 800mm DEEP AND 600mm x 900mm FOR DEEPER STORAGES. THERE SHALL BE NO IMPEDIMENTS TO THE REMOVAL OF DEBRIS THROUGH THIS OPENING. INSPECTION SHALL BE POSSIBLE WITHOUT RESIDENTS OR OWNERS HAVING TO REMOVE HEAVY ACCESS COVERS
- (AS3500.3 CLAUSE 7.10.2.b.ii) WHERE STORAGES ARE NOT DEEP ENOUGH TO WORK IN (<1.5m DEEP). ACCESS SHALL BE PROVIDED AT INTERVALS OF APPROXIMATELY 10m TO ALLOW THE SYSTEM TO BE FLUSHED TO THE STORAGE OUTLET> ACCESS
- SHALL BE PROVIDED AT THE OUTLET (AS3500.3 CLAUSE 7.10.2.b.iii) A SUMP SHALL BE PROVIDED AT THE OUTLET POINT, SET BELOW THE LEVEL OF THE MAIN STORAGE TO COLLECT DEBRIS. WHERE A DISCHARGE CONTROL PIT IS INCLUDED IN THE STORAGES THIS SHALL CONTAIN A SUMP SET A MINIMUM OF 1.5 TIMES THE DIAMETER OF THE ORIFICE OF THE OUTLET BELOW THE CENTRE OF THE ORIFICE. SUMPS SHALL BE PROVIDED WITH WEEP HOLES TO DRAIN OUT TO THE SURROUNDING SOIL, AND SHALL BE
- FOUNDED ON A COMPACTED GRANULAR BASE. WHERE THE DEPTH OF THE TANK EXCEEDS 1.2m, A LADDER IN ACCORDANCE WITH AS3500.3 CLAUSE 7.5.5.4 SHALL BE INSTALLED. BELOW GROUND OSD SYSTEMS SHALL CONFORM WITH AS2865.
- IN ACCORDANCE WITH AS3500.3 CLAUSE 7.10.2.D SCREENS (TRASH RACKS) WITH THE FOLLOWING CHARACTERISTICS SHOULD BE PROVIDED TO COVER EACH ORIFICE OUTLET a. FOR ORIFICES UP TO 150mm DIA., A FINE APERTURE-EXPANDED METAL MESH SCREEN WITH A MINIMUM AREA OF 50 TIMES THE AREA OF THE ORIFICE, FOR LARGER DIA, ORIFICES, A COARSER GRID MESH WITH A
- MINIMUM AREA OF 20 TIMES THE ORIFICE AREA MAY BE USED AS AN **ALTERNATIVE** b. STEEL SCREENS SHOULD BE STAINLESS STEEL OR HOT-DIP GALVANIZED WHERE APERTURE-EXPANDED MESH SCREENS ARE EMPLOYED. THEY SHOULD BE POSITIONED SO THAT THE OVAL-SHAPED HOLES ARE
- HORIZONTAL, WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING DOWNSTREAM. A HANDLE MAY BE FITTED TO ENSURE CORRECT ORIENTATION AND EASY REMOVAL FOR MAINTENANCE. d. SCREENS SHOULD BE PLACED NO FLATTER THAN 45 DEGREES TO THE
- HORIZONTAL IN SHALLOW STORAGES UP TO 600mm DEEP. IN DEEPER OR MORE REMOTE LOCATIONS, THE MINIMUM ANGLE SHOULD BE 60 DEGREES TO THE HORIZONTAL. 8. IF THE BELOW GROUND OSD STORAGE IS SEALED, A VENT SHOULD BE
- PROVIDED TO EXPEL ANY NOXIOUS GASES (AS3500.3 CLAUSE 7.10.2.D.B). THE STORAGE SHOULD BE DESIGNED TO FILL WITHOUT CAUSING OVERFLOWS IN UPSTREAM CONDUITS DUE TO BACKWATER EFFECTS (AS3500.3 CLAUSE 7.10.2.D.C).

STRUCTURAL CONSULTANT

DRAULIC CONSULTANT

ANDSCAPE CONSULTANT

GREENVIEW CONSULTING Pty Ltd

D. BELOW GROUND STORAGES SHALL BE CONSTRUCTED OF CONCRETE, MASONRY, ALUMINIUM/ZINC AND ALUMINIUM/ZINC/MAGNESIUM ALLOY-COATED STEEL, ZINC-COATED STEEL, GALVANISED IRON OR PLASTICS (AS3500.3

MAINTENANCE SCHEDULE: ON SITE DETENTION (OSD)

ALL OSD MAINTENANCE TASKS SHOULD BE UNDERTAKEN AFTER A SIGNIFICANT STORM EVENT

DESCRIPTION / ACTION

6 MONTHLY

ELEMENT	IAGK	DESCRIPTION / ACTION
ORIFICE PLATE	INSPECT FOR BLOCKAGE	CHECK PLATE FOR BLOCKAGE AND CLEAN
TRASH SCREEN	CHECK / CLEAN	CHECK AND CLEAN TRASH SCREEN
PIT SUMP	CHECK FOR SEDIMENT	CHECK FOR SEDIMENT / LITTER / SLUDGE AND CLEAN-OUT
GRATED LIDS	CHECK FOR DAMAGE	CHECK FOR CORROSION OR OTHER DAMAGE AND REPAIR / REPLACE AS NEEDED
	CLEAR BLOCKAGES	CHECK AND CLEAR BLOCKAGES
STORAGE LIDS	CHECK	REMOVE DEBRIS / MULCH / LITTER / SEDIMENT
OUTLET PIPES	CHECK FOR BLOCKAGES	CHECK / CLEAN / FLUSH OUTLET PIPES, REMOVE ANY BLOCKAGES
STEP IRONS	CHECK FIXING	ENSURE STEP-IRON FIXINGS ARE SECURE AND REPAIR AS NEEDED

ANINILIALLY

ANNUALLY		
ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ATTACHMENT	ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED
TRASH SCREEN	CHECK ATTACHMENT	ENSURE PLATE IS MOUNTED SECURELY, TIGHTEN AND SEAL GAPS AS REQUIRED
	CHECK CORROSION	CHECK TRASH SCREEN FOR CORROSION, ESPECIALLY AT CORNERS NEAR WELDS AND REPAIR / REPLACE AS NEEDED
STEP IRONS	CHECK FOR CORROSION	EXAMINE STEP IRONS AND REPAIR ANY DAMAGE
INTERNAL WALLS	CHECK	CHECK FOR CRACKS / SPALLING AND REPAIR AS NEEDED
OSD SURROUNDS	CHECK FOR SUBSIDENCE	CHECK FOR SUBSIDENCE (WHICH MAY INDICATE LEAKS) AND REPAIR AS NEEDED

5-YEARLY		
ELEMENT	TASK	DESCRIPTION / ACTION
ORIFICE PLATE	CHECK ORIFICE PLATE	CHECK ORIFICE SIZE AGAINST WAE AND CHECK FOR PITTING / SCARRING, REPLACE IF NECESSARY



RECOMMENDED SAFETY SIGNS



CONFINED SPACE DANGER SIGN

- 1. A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE. - MINIMUM DIMENSIONS OF THE SIGN
- 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES) 2. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED
- ALUMINUM OR POLYPROPYLENE 3. SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE

EXISTING SERVICES



ARREVIATIONS

ADDI	LVIATIONS
DP	DOWN PIPE
FFL	PROPOSED FINISHED FLOOR LEVE
GL	PROPOSED PIT SURFACE LEVEL
IL	PROPOSED PIT INVERT LEVEL
10	INSPECTION OPENING
K&G	KERB & GUTTER
Р	FINISHED PAVEMENT LEVEL
RCP	REINFORCED CONCRETE PIPE
RKG	ROLL KERB & GUTTER
RL	FINISHED SURFACE LEVEL
RWO	RAINWATER DRAINAGE OUTLET
RWT	PROPOSED RAINWATER TANK
TK	TOP OF NEW KERB LEVEL
TOW	TOP OF NEW RETAINING WALL LEV
TWL	TOP OF WATER LEVEL

RIGID PVC PIPE

VERTICAL DROPPER

GREENVIEW CIVIL SHEET LIST SHEET NAME REV. C01 NOTES & LEGENDS C02 GROUND FLOOR DRAINAGE PLAN C03 WSUD SITE AREA BREAK-UP C04 SITE STORMWATER DETAILS SHEET 1 C05 SITE STORMWATER DETAILS SHEET 2



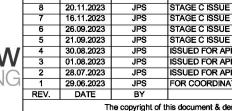
WITH THE DESIGN.











JPS STAGE C ISSUE

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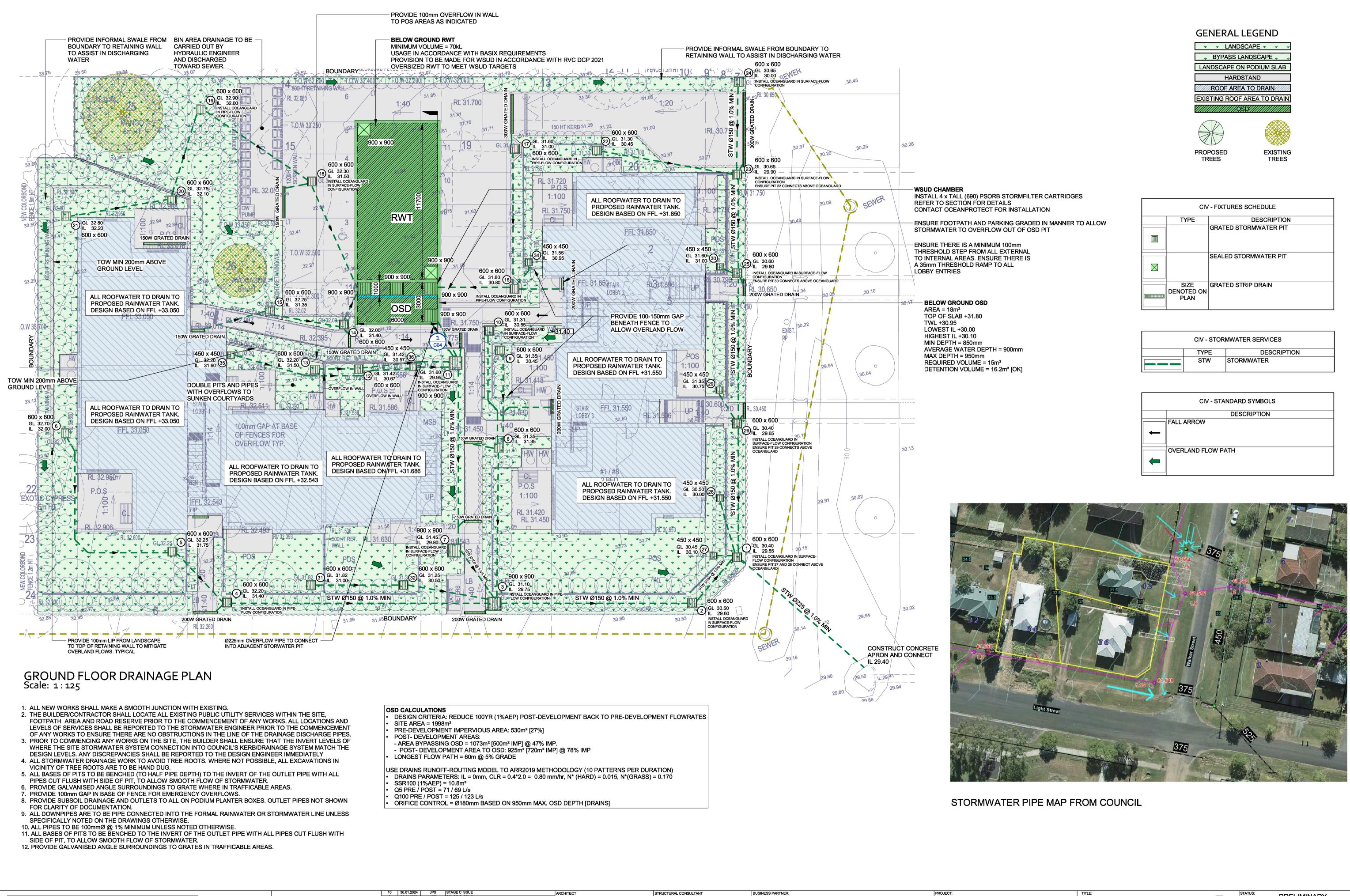


PROPOSED DEVELOPMENT 34-36 Light St & 42 Walker St, Casino,

NOTES & LEGENDS

PRELIMINARY 30.01.2024: 100 **JPS** KP

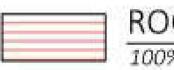
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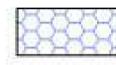
WSUD SITE AREA BREAK-UP

21055 - 34-36 Light St & 42 Walker Street, CASINO





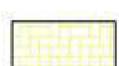
ROOF: 610m² 100% IMPERVIOUS



ROAD: 377m² 100% IMPERVIOUS

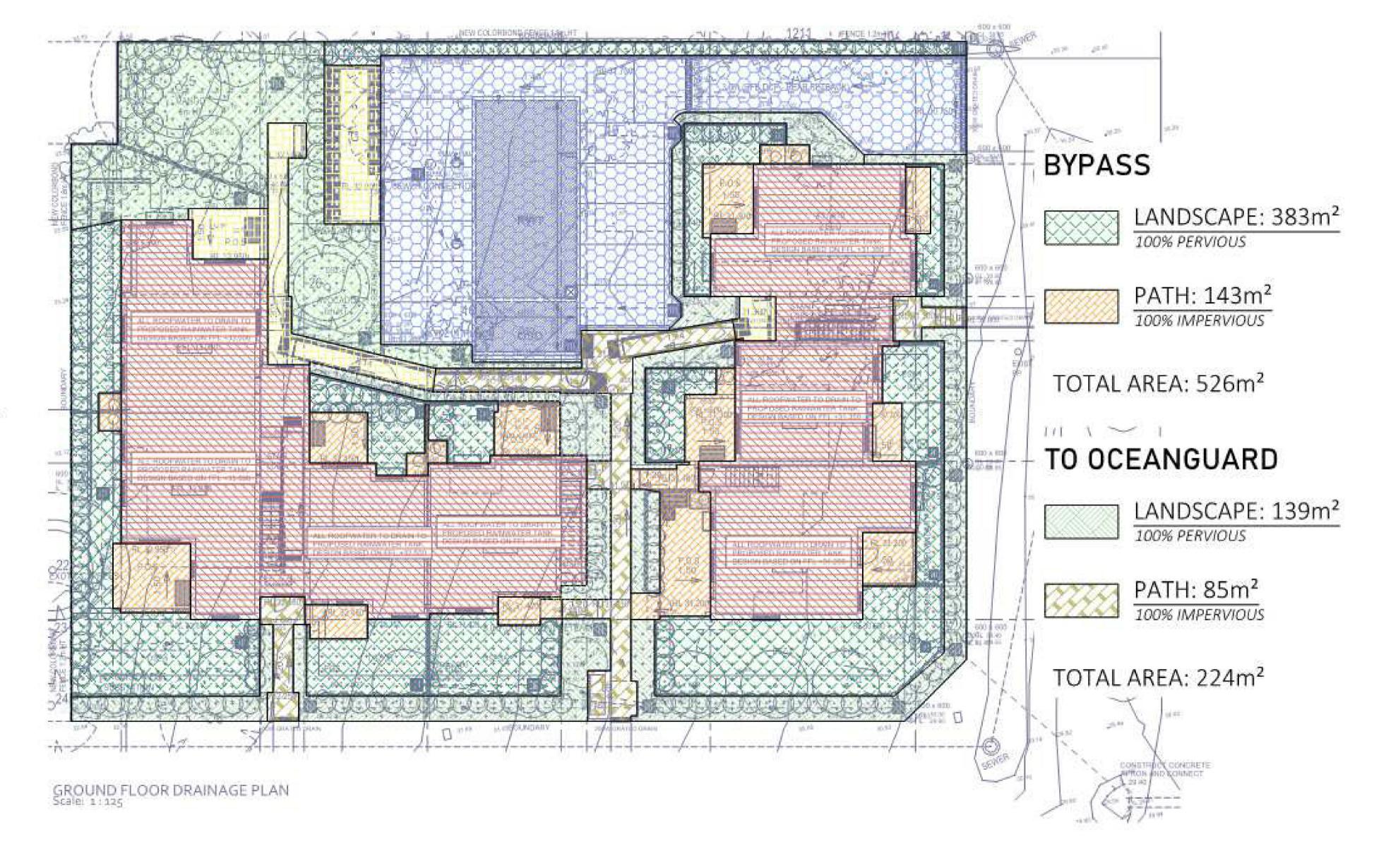


LANDSCAPE: 178m² 100% PERVIOUS



PATH: 84m² 100% IMPERVIOUS

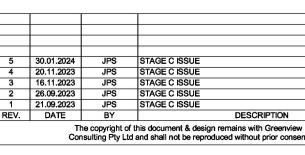
TOTAL AREA: 1249m²

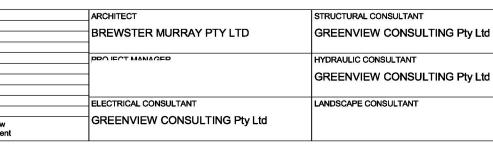








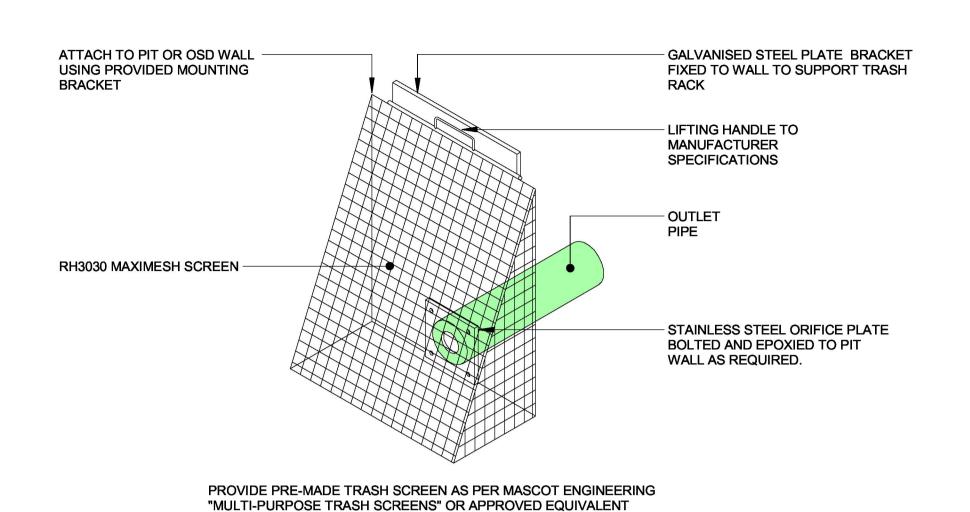




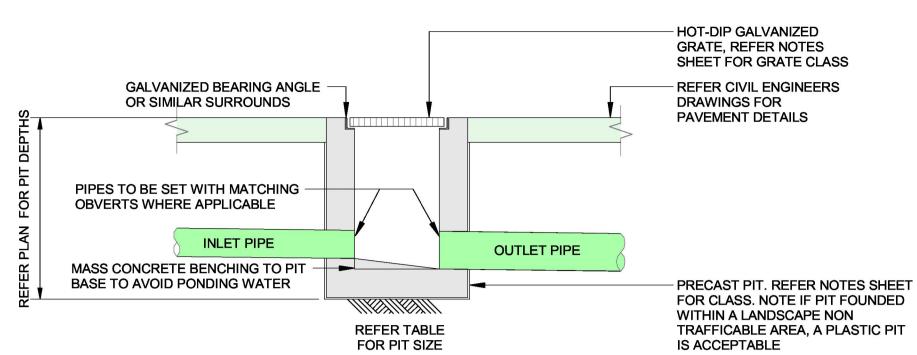




WSUD SITE AREA BREAK-UP



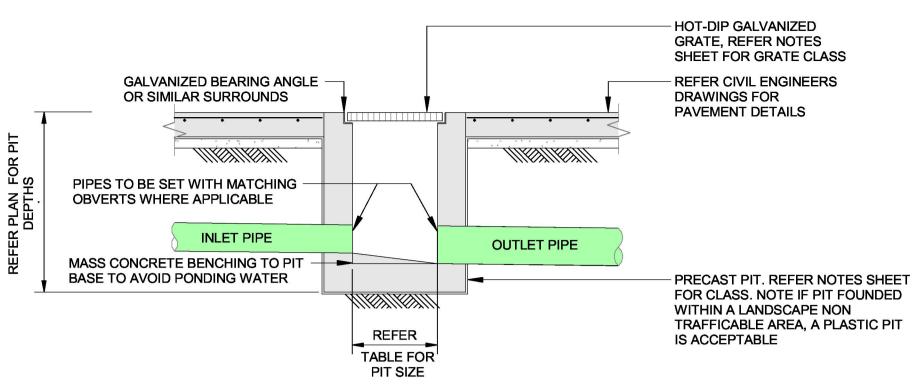
TYPICAL TRASH SCREEN DETAIL WITH ORIFICE PLATE Scale: 1:10



- 1. ENSURE CLIMB IRONS ARE PROVIDED UNDER LID AT 300 CTS TO COUNCIL'S SPECIFICATIONS
- WHERE PIT DEPTH IS DEEPER THAN 1000. 2. GREENVIEW RECOMMENDS THE PLUMBER PROVIDES 90Dia x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH INLET PIPE.

T SIZE	
DEPTH	PIT DIMENSION
0 - 600	450 mm x 450 mm
600 - 900	600 mm x 600 mm
900 - 1200	600 mm x 900 mm
1200 ±	900 mm v 900 mm

TYPICAL CONCRETE INLET PIT - LANDSCAPE SURFACE Scale: 1:20

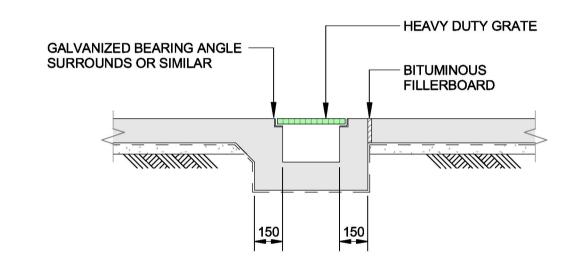


1. ENSURE CLIMB IRONS ARE PROVIDED UNDER LID AT 300 CTS TO COUNCIL'S

SPECIFICATIONS WHERE PIT DEPTH IS DEEPER THAN 1000. 2. GREENVIEW RECOMMENDS THE PLUMBER PROVIDES 90Dia x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH INLET PIPE.

111 0122	
DEPTH	PIT DIMENSION
0 - 600	450 mm x 450 mm
600 - 900	600 mm x 600 mm
900 - 1200	600 mm x 900 mm
1200 +	900 mm x 900 mm

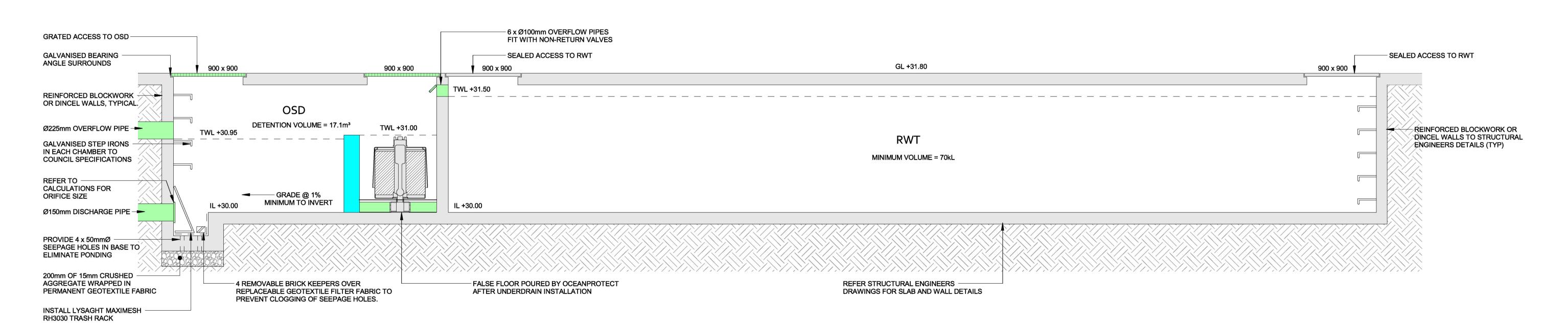
TYPICAL CONCRETE INLET PIT - CONCRETE SURFACE Scale: 1:20

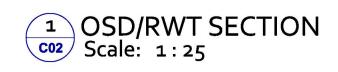


TYPICAL GRATED DRAIN DETAIL Scale: 1:20

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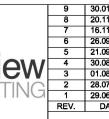


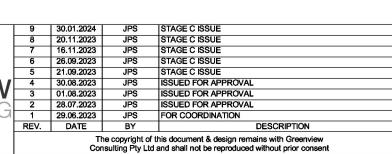


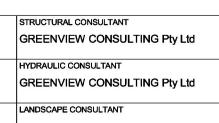












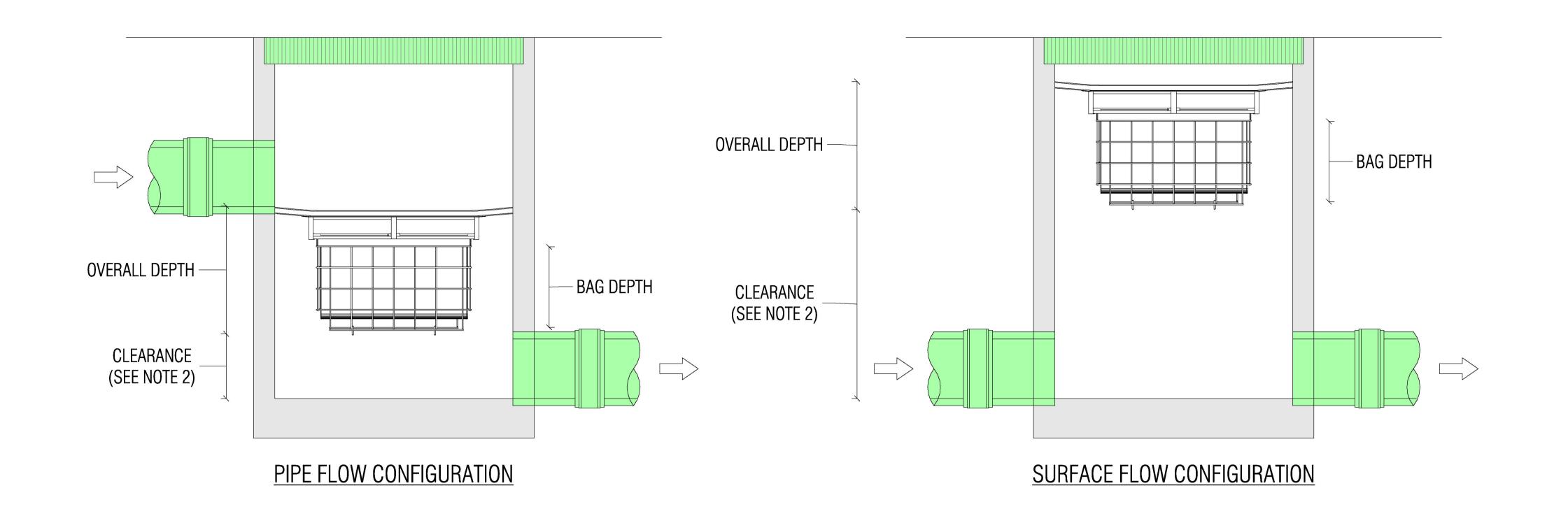


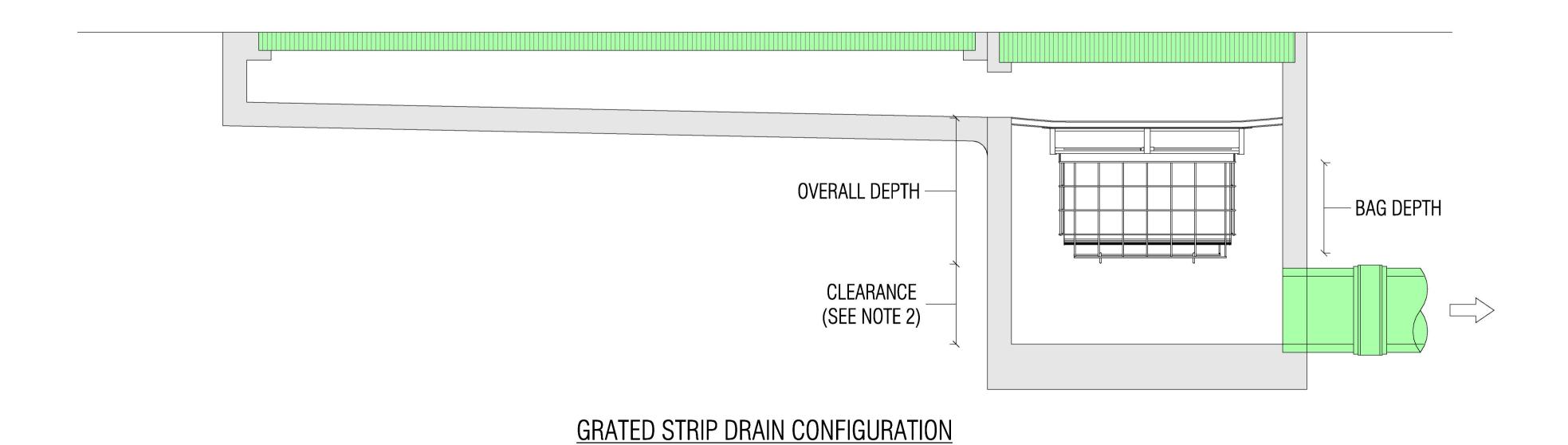
PROPOSED DEVELOPMENT

SITE STORMWATER **DETAILS SHEET 1**

PRELIMINARY 30.01.2024 indicated 230192 **JPS** KP KP C04

34-36 Light St & 42 Walker St, Casino,





OCEANPROTECT OCEANGUARD PIT DETAIL Scale: 1:10

PROPOSED DEVELOPMENT

34-36 Light St & 42 Walker St, Casino, NSW greenview Job No: 230192

GENERAL INSTRUCTIONS

- 1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO
- 2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" DEPT OF HOUSING, 1998 (BLUE BOOK).
- 3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.
- 4 THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS. SPECIFICATIONS. CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS WHERE DISCREPANCIES ARE FOUND NOTIFY ENGINEER IMMEDIATELY FOR VERIFICATION
- WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR

LAND DISTURBANCE INSTRUCTIONS

- DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR
- 2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR
- 3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT
- 4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE. A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN B. CONSTRUCT THE STABILISED SITE ACCESS.
- C. CONSTRUCT DIVERSION DRAINS AS REQUIRED. D. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB
- E. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE . CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS
- SHOWN ON THE PLAN. G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE
- H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER
- THE PERMANENT LANDSCAPING HAS BEEN COMPLETED. . ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.
- 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER

SITE MAINTENANCE INSTRUCTIONS

1. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO: A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY

NECESSARY REPAIRS

- B. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS. INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS
- C. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED. D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND NOT TO INITIATE UPGRADING OR REPAIR AS NECESSARY
- E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
- F. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.

THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:

A. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE. THE NEED FOR DUST PREVENTION STRATEGIES. E. ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SAFETY IN DESIGN NOTES

1. THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING. WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS, GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED

SEDIMENT CONTROL INSTRUCTIONS

- 1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO
- SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH
- OF AT LEAST 0.6 METRES. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS
- AND WATERWAYS CANNOT OCCUR. 4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS
- SUCH AS WATERWAYS PAVED AREAS AND DRIVEWAYS 5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN
- TREATED BY AN APPROVED DEVICE. 6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY
- LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO

SOIL EROSION CONTROL INSTRUCTIONS

- 1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS
- OTHERWISE NOTED, THAN: 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES. 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16
- 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 20 METRES 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES. 2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL
- BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI. TIME OF CONCENTRATION STORM EVENT. 3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10. WORKING DAYS FROM COMPLETION OF FORMATION, FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER-SOILS AND CONSTRUCTION".
- TRAFFIC WILL BE PROHIBITED IN THESE AREAS. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN

DEPT OF HOUSING 1998 (BLUE BOOK), FOOT AND VEHICULAR

- 10 WORKING DAYS FROM COMPLETION OF FORMATION ALL LANDS. INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE
- MILLET 20 KG/HA AND OATS 20 KG/HA. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS. WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY, FOLLOW
- UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY. REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

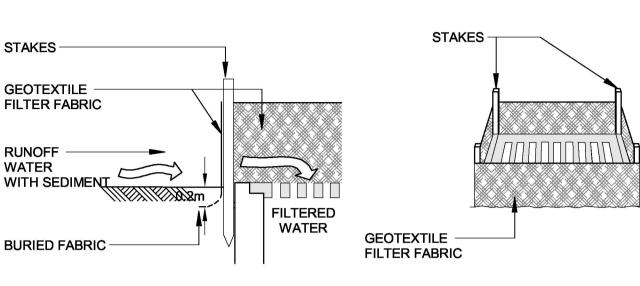
- ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PHONE AREAS,
- STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS. . ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF
- THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC
- MATERIALS OR PETROLEUM PRODUCTS. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

PROCEDURE FOR DE-WATERING

- ENSURE PERMISSION FOR DE-WATERING IS RECEIVED FROM AUTHORITIES BEFORE PUMPING OUT.
- AN ON-SITE TREATMENT PROCESS DISCHARGING TO THE STORMWATER SYSTEM WILL BE IMPLEMENTED. ALL SITE WATERS DURING CONSTRUCTION WILL BE CONTAINED ON SITE AND RELEASED ONLY WHEN pH IS BETWEEN 8.5 & 6.5. SUSPENDED SOLIDS ARE LESS THAN 50mg/L, TURBIDITY LESS THAN 100 NTU'S, OIL AND GREASE LESS THAN 10mg/L AND BIOCHEMICAL OXYGEN DEMAND (BOD5) LESS THAN 30mg/L (FOR STORMS LESS THAN 1 IN
- 5 YEAR EVENTS). METHODS OF SAMPLING AND ANALYSIS OF WATER QUALITY WILL BE IN ACCORDANCE WITH THE APPLICABLE METHOD LISTED IN THE EPA PUBLISHED APPROVED METHODS FOR THE SAMPLING ANALYSIS OF WATER POLLUTANTS IN NEW SOUTH WALES.
- WHERE LABORATORY ANALYSIS IS REQUIRED AS INDICATED BY IN SITU TESTING, APPROPRIATE SAMPLE BOTTLES AND PRESERVATIVES WILL BE USED AND GUIDANCE FOR THE SAMPLING METHOD OBTAINED FROM APPLICABLE PARTS OF AS5667.1 AND AS5667.6. ANALYSIS WILL BE UNDERTAKEN WHERE PRACTICAL BY A NATA REGISTERED LABORATORY CERTIFIED TO PERFORM THE APPLICABLE ANALYSIS.
- AS EXCAVATION TO TOP SOIL PROGRESSES, ANY WATER COLLECTED AT THE BOTTOM OF EXCAVATIONS WILL BE DIVERTED TO A TEMPORARY SEDIMENTATION BASIN OR SETTLEMENT TANK. IF THE WATER CONTAINS ONLY SEDIMENTS, IT WILL BE FILTERED AND PUMPED TO STORMWATER. BEFORE THIS CAN HAPPEN IT MUST CONTAIN LESS THAN 50mg/L TOTAL SUSPENDED SOLIDS.
- POLLUTED WATER MUST NOT ENTER THE STORMWATER SYSTEM IN SOME CIRCUMSTANCES, A LIQUID WASTE COMPANY MAY BE REQUIRED TO COLLECT CONTAMINATED WATER FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.

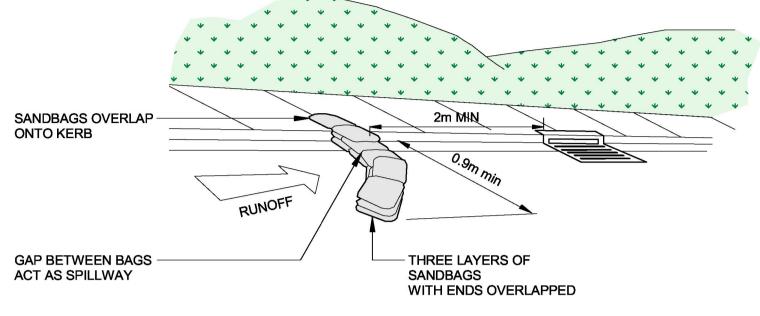
THE BUILDER AND EXCAVATION CONTRACTOR ARE TO ENSURE ANY WATER DISCHARGED INTO COUNCIL STORMWATER SYSTEM FROM THE EXCAVATED PORTIONS OF THE SITE COMPLY WITH THE RELEVANT ENVIRONMENTAL CRITERIA AND APPROPRIATE CONTROL METHODS SHALL BE ADOPTED. THE PROPOSED CONTROL METHODS ARE STRICTLY TO COMPLY WITH THE ANZECC

WHERE WORK INVOLVES EXCAVATION OR STOCKPILING OF RAW OR LOOSE MATERIALS, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROVIDE WHOLLY WITHIN THE SITE WHILST WORK IS BEING CARIED OUT IN ORDER TO PREVENT SEDIMENT AND SILT FROM SITE WORKS BEING CONVEYED BY STORMWATER INTO COUNCIL'S STORMWATER SYSTEM, NATURAL WATER COURSES, BUSHLANDS, AND NEIGHBORING PROPERTIES. IN THIS REGARD, ALL STORMWATER DISCHARGE FROM THE SITE SHALL MEET THE REQUIREMENTS OF THE PROTECT OF ENVIRONMENT OPERATIONS ACT 1997 AND THE DEPARTMENT OF ENVIRONMENT CLIMATE CHANGE AND WATER GUIDELINES. THE CONTROL DEVICES ARE TO BE MAINTAINED IN A SERVICEABLE CONDITION AT

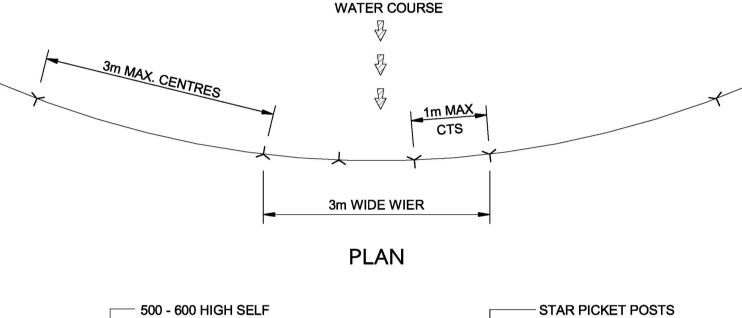


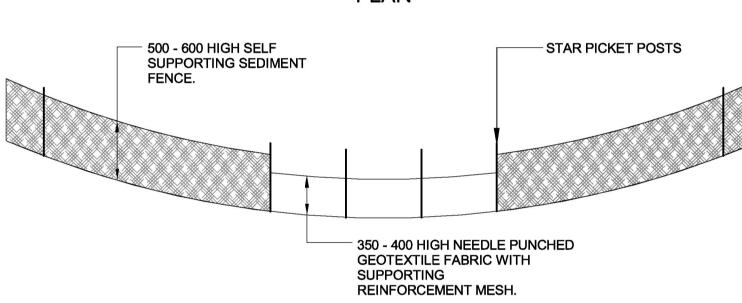
INLET SEDIMENT TRAP





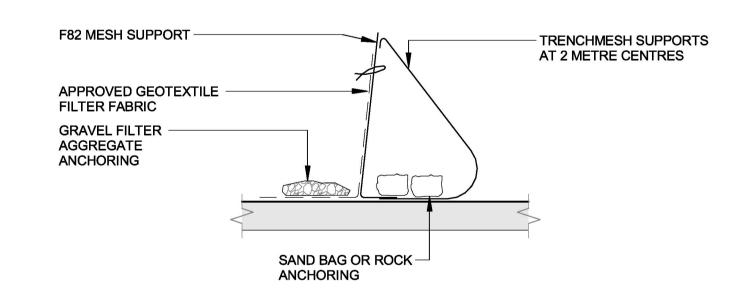
SANDBAG SEDIMENT TRAP Scale: 1:20





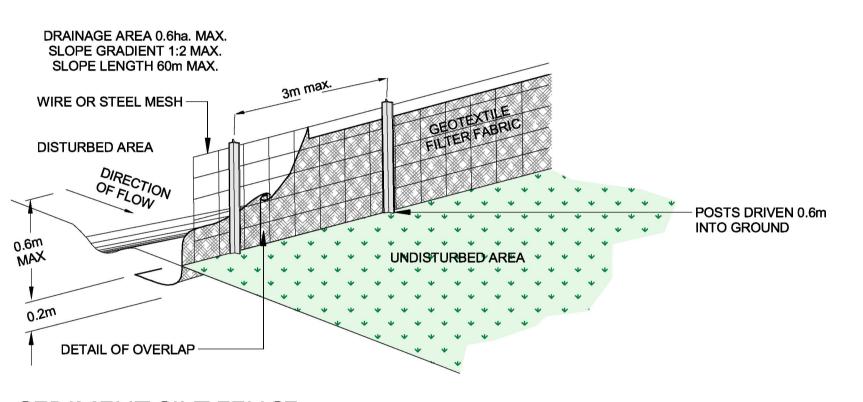
ELEVATION

ESM_SEDIMENT FENCE WEIR Scale: 1:20



- 1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL
- TO THE CONTOURS OF THE SITE. 2. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH
- WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
- JOIN SECTIONS OF FABRIC AT A SUPPORT WITH A 150mm OVERLAP. 4. REFER TO DETAIL SD 6-9 "BLUE BOOK"

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SEDIMENT SILT FENCE Scale: 1:20

TIMBER SLEEPER OR METAL GRID 100mm HIGH AND SPACED AT 200mm CTS MIN LENGTH 3.5m CONSTRUCTION SITE BERM 0.3m MIN HIGH SINGLE LAYER HIGH **EXISTING ROADWAY** STRENGTH **GEOFABRIC RUNOFF FROM PAD** DIRECTED TO SEDIMENT TRAP **BED 75mm AGGREGATE**

TEMPORARY CONSTRUCTION EXIT Scale: 1:20

SILT FENCE BARRIER DETAIL Scale: 1:20

LOCKED BAG 4001 ASHFIELD NSW BC1800 PHONE No (02) 8753 8000 FAX No (02) 8753 8888



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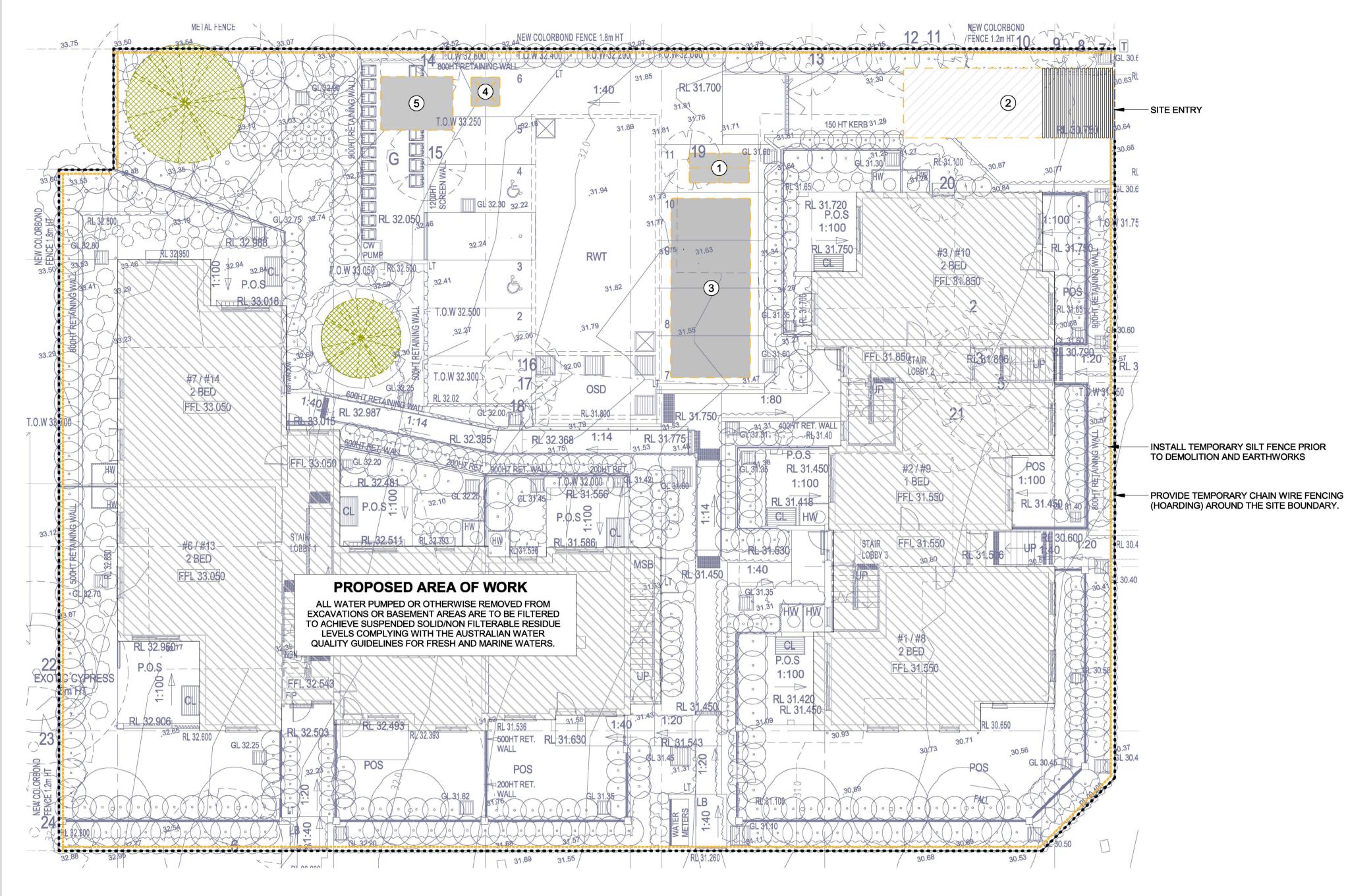
NSW

PROPOSED DEVELOPMENT 34-36 Light St & 42 Walker St, Casino,

NOTES & LEGENDS

MINIMUM 200mm THICK

PRELIMINARY 30.01.2024 indicated **JPS** KP ESM1



ENVIRONMENTAL SITE MANAGEMENT LAYOUT Scale: 1:125

FOR NOISE CONTROL, VIBRATION MANAGEMENT, DUST CONTROL, ODOUR CONTROL REFER TO NOTES ON THIS DRAWING, FOR OTHER NOTES (LITTER/WASTE, STORMWATER) REFER ESM1

WHERE WORK INVOLVES EXCAVATION OR STOCKPILING OF RAW OR LOOSE MATERIALS, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROVIDE WHOLLY WITHIN THE SITE WHILST WORK IS BEING CARIED OUT IN ORDER TO PREVENT SEDIMENT AND SILT FROM SITE WORKS BEING CONVEYED BY STORMWATER INTO COUNCIL'S STORMWATER SYSTEM, NATURAL WATER COURSES, BUSHLANDS, AND NEIGHBORING PROPERTIES. IN THIS REGARD, ALL STORMWATER DISCHARGE FROM THE SITE SHALL MEET THE REQUIREMENTS OF THE PROTECT OF ENVIRONMENT OPERATIONS ACT 1997 AND THE DEPARTMENT OF ENVIRONMENT, CLIMATE CHANGE AND WATER GUIDELINES. THE CONTROL DEVICES ARE TO BE MAINTAINED IN A SERVICEABLE CONDITION AT ALL TIMES.

THE BUILDER AND EXCAVATION CONTRACTOR ARE TO ENSURE ANY WATER DISCHARGED INTO COUNCIL STORMWATER SYSTEM FROM THE EXCAVATED PORTIONS OF THE SITE COMPLY WITH THE RELEVANT ENVIRONMENTAL CRITERIA AND APPROPRIATE CONTROL METHODS SHALL BE ADOPTED. THE PROPOSED CONTROL METHODS ARE STRICTLY TO COMPLY WITH THE ANZECC 2000 GUIDELINES.

SITE MANAGEMENT LEGEND

• • • • • • CHAIN WIRE FENCE

SILT FENCE

ESM - SITE MANAGEMENT SCHEDULE									
TYPE	DESCRIPTION								
1	SKIP BIN (PROVIDE COVER)								
2	2 SITE ACCESS GRATE								
3	MATERIALS STOCKPILE (RELOCATE AS NECESSARY)								
4	TOILET FACILITY								
5	SITE SHED								

NOISE CONTROL

• WHERE POSSIBLE, STRATEGICALLY PLACE NOISE-GENERATING PLANT / EQUIPMENT TO TAKE ADVANTAGE OF NATURAL SCREENING (E.G. BUILDINGS)

• AVOID PLACING NOISE-GENERATING PLANT / EQUIPMENT CLOSE TOGETHER AND/OR OPERATE

SIMULTANEOUSLY

• MAINTAIN ALL PLANT & EQUIPMENT TO MINIMISE NOISE EMISSIONS (E.G. REPAIR BROKEN SILENCING EQUIPMENT, TIGHTEN RATTLING COMPONENTS ETC)

• ALL PLANT & EQUIPMENT TO BE OPERATED IN THE CORRECT MANNER TO AVOID UNNECESSARY NOISE

• ALL DELIVERIES TO SITE TO BE IN ACCORD WITH THE RELEVANT CONSTRUCTION TRAFFIC MANAGEMENT PLAN

• NO PUBLIC ADDRESS SYSTEMS TO BE USED EXCEPT IN THE CASE OF EMERGENCIES

WHERE NECESSARY, FIT PLANT WITH SILENCERS AND/OR OTHER NOISE ATTENUATION MEASURES

ENSURE CONSTRUCTION VEHICLES AND PLANT/EQUIPMENT ARE TURNED OFF WHEN NOT IN USE (I.E. AVOID IDLING)

VIBRATION MANAGEMENT

• USE LOW-VIBRATION EMITTING PLANT & EQUIPMENT WHERE POSSIBLE • WHERE PRACTICAL, USE NON-PERCUSSIVE PILING TECHNIQUES OR PROVIDE ACCOUSTIC SHIELDING

 WHERE POSSIBLE, STAGE ANY VEGETATION REMOVAL TO MINIMISE EXPOSED AREAS • AREAS EXPOSED (IN THE SHORT TERM) TO BE STABILISED USING WATERING AND/OR GEO-FABRICS AS

APPROPRIATE TO MINIMISE DUST GENÉRATION MODIFY / REDUCE CONSTRUCTION ACTIVITIES DURING HIGH WIND CONDITIONS IF INCREASED DUST

GENERATION IS A POSSIBILITY • DUST CONTROL MEASURES TO BE IMPLEMENTED AS THE SITE SUPERVISOR DEEMS APPROPRIATE, INCLUDING

WATER CARTS, SPRINKLERS, SPRAYS, DUST SCREENS, ETC • CHECK EROSION CONTROL MEASURE REGULARLY TO ENSURE CAPTURED SILT DOES NOT BECOME AIRBORNE

ODOUR CONTROL • SEGRATE AND COLLECT WASTE REGULARLY TO ENSURE ODOURS ARE MINIMISED

NO BURNING-OFF OF WASTE AT ANY TIME

REMOVE WASTE BINS FROM SITE REGULARLY

							ARCHITECT	STRUCTURAL CONSULTANT	BUSINESS PARTI	TNER:	PROJECT:
	LOCKED BAG 4001						BREWSTER MURRAY PTY LTD	GREENVIEW CONSULTING Pty Ltd			PROPO
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MANAGEMENT PLAN Light St & 42 Walker St, Casino,

ENVIRONMENTAL SITE

PRELIMINARY 30.01.2024 indicated 230192 KP **JPS** KP ESM2