

STORMWATER LONGITUDINAL SECTION 1:100

DOCUMENT CERTIFICATION

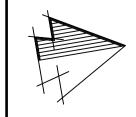
I AM A QUALIFIED CIVIL ENGINEER. I HOLD THE FOLLOWING QUALIFICATIONS: MEngSc (Civil), MIEAust.

I HEREBY STATE THAT THESE PLANS OR DETAILS COMPLY WITH THE CONDITIONS OF DEVELOPMENT CONSENT, THE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA AND/OR PLEVANT AUSTRALIAN INDUSTRY STANDARDS.

DATE: 21/12/2018

Michal Korecky

ED FOR DA ONLY IENDMENT	21/12/18 DATE
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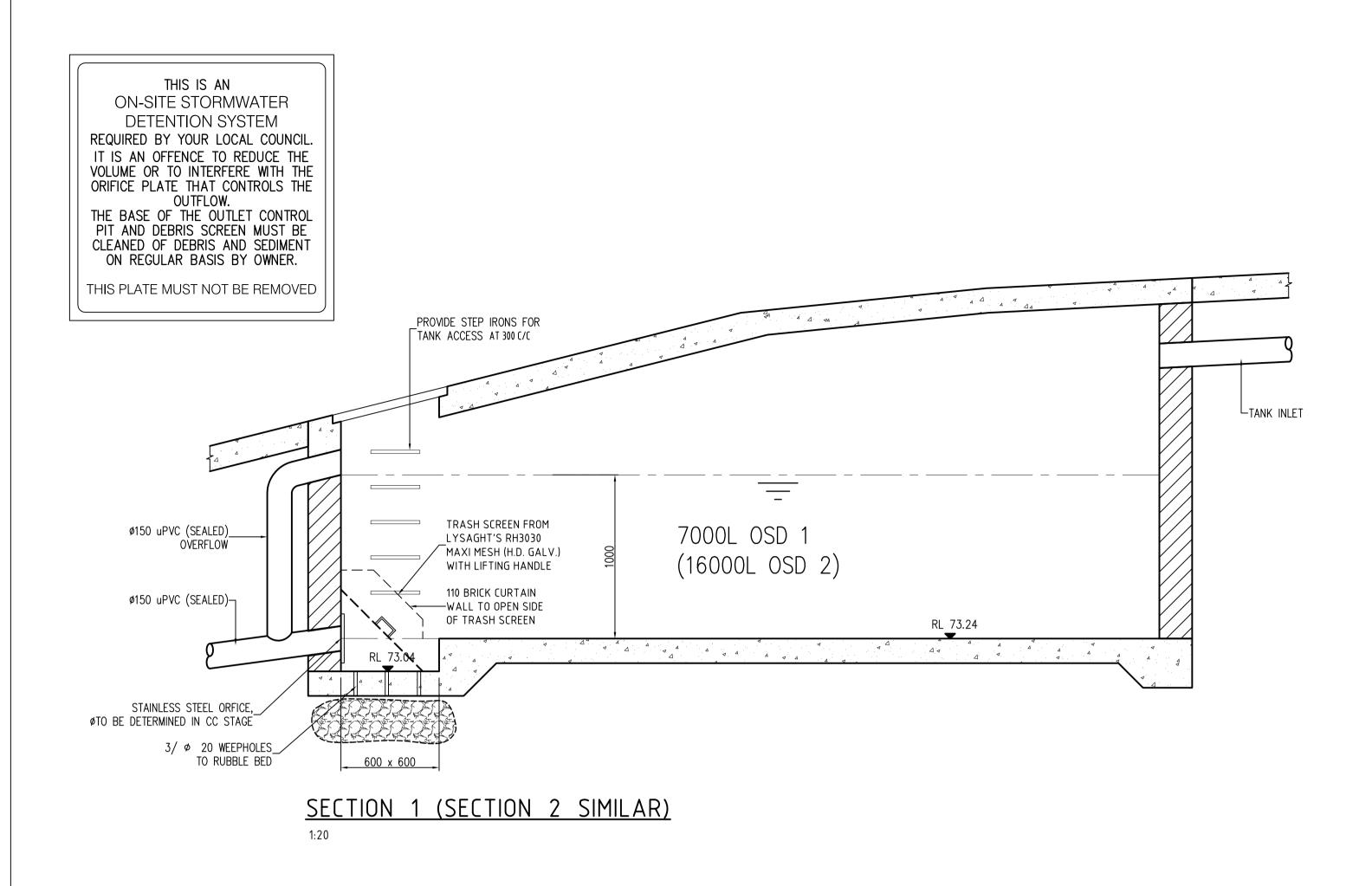
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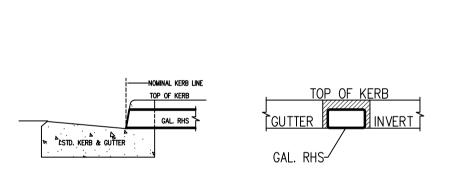
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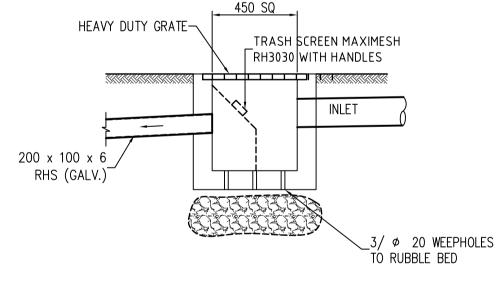
RECKY	PROPOSED SUBDIVISION 93 PARKES ROAD COLLAROY NSW 2100 LOT 14, DP 12832
NSW 2099	COLLAROY NSW 2100 LOT 14, DP 12832
WWW.PLANSDESIGN.COM.AU	CLIENT: CHRISTOPH SCHRADER

PROJECT:

2	DRAWING Nr : 17040	SHEET: SW-1
	DRAWN: MK	ISSUE: 1
	DATE: 21/12/18	scale: AS NOTED







CONNECTION WITH 150mm CONCRETE KERB 1:20

1. INTERNAL HEIGHT OF RECTANGULAR SECTION ACROSS THE

FOOTPATH SHALL BE 100mm MAXIMUM. 2. RECTANGULAR SECTION ACROSS FOOTPATH SHALL BE HOT DIP GALVANISED RHS.

3. CONVERT STORMWATER PIPES WITHIN PROPERTY TO SHS ACROSS FOOTPATH USING STORMWATER PIT.

SITE DISCHARGE PIT (TYP) 1:20

	MINIMAL INTERNAL DIMENSIONS FOR STORMWATER PITS (mm)	
DEPTH TO INVERT OF OUTLET	WIDTH	LENGTH
<600	450	450
>600 <900	600	600
>900 <1200	600	900
>1200	900	900

TO OSD TANK VOLUME:

ESTIMATE OF RAIN WATER TANK DETERMINED BY BASIX CERTIFICATE: 4000L (4m3) REVISED OSD VOLUME: 10.1 - 4.0 = 6.1 m

CONCENTRATED MAX. SITE DISCHARGE TO KERB AND GUTTER = 20 1/s

ORIFICE PLATE DIAMETER

OSD DEPTH: 1m OSD AREA: 7m2

ESTIMATE OF RAIN WATER TANK DETERMINED BY BASIX CERTIFICATE: NONE REVISED OSD VOLUME: 15.6 - 0.0 = 15.6 m

 $400/10000 \times 117.3 = 31.05 \text{ I/s}$ CONCENTRATED MAX. SITE DISCHARGE TO KERB AND GUTTER = 20 1/s

ORIFICE PLATE DIAMETER

OSD DEPTH: 1m OSD VOLUME: 16m3

> EXISTING STORMWATER SYSTEM TO BE CHECKED AND UPGRADED AS REQUIRED

DRAINAGE LINES LOCATIONS ARE INDICATIVE ONLY AND MAY VARY DUE TO SITE CONSTRAINTS. FINAL PIPES LOCATIONS T BE COORDINATED ON SITE WITH OTHER SERVICES & BUILDERS

REAR LOT:

TOTAL SITE AREA: 505m2

 $505 \times 0.02 = 10.1 \text{m}$

PERMISSIBLE SITE DISCHARGE:

 $400/10000 \times 505 = 20.2 \text{ I/s}$

TO BE DETERMINED FOR ACTUAL FUTURE DESIGN

OSD VOLUME: 7m3

FRONT LOT:

TOTAL SITE AREA: 776.3m2

TO OSD TANK VOLUME:

 $776.3 \times 0.02 = 15.6 \text{m}$

PERMISSIBLE SITE DISCHARGE:

TO BE DETERMINED FOR ACTUAL FUTURE DESIGN

OSD AREA: 16m2

REMOVED OR SANDFILLED AS INDICATED ON THE PLANS. PIPE LENGTHS MEASURED ARE BETWEEN PIT CENTRES. ALL DRAINAGE PIPES LESS THAN 300mm DIAMETER SHALL BE SEWER GRADE

> TAPERS SHALL BE VIA. PURPOSE MADE FITTINGS. MINIMUM GRADE TO DRAINAGE PIPES TO BE 1.5% U.N.O.

MINIMUM PIPE SIZE TO BE 100mm DIAMETER U.N.O.

THE CONTRACTOR IS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN

upvc with solvent welded joints (U.N.O.). All pipe junctions and

RAINWATER RE-USE NOTES AND SPECIFICATIONS ROOF WATER ONLY TO BE DRAINED TO THE RAINWATER STORAGE TANKS.

THE RAINWATER STORAGE TANKS ARE TO BE CONNECTED FOR RE-USE AS REQUIRED BY THE BASIX CERTIFICATE.

HUMAN CONSUMPTION.

A PUBLIC AUTHORITY

GENERAL NOTES

ALL PLUMBING WITHIN THE SITE MUST BE CARRIED OUT IN ACCORDANCE WITH RELEVANT PROVISIONS OF AUSTRALIAN STANDARD AS/NZS 3500.3-2003

THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS, REPORT ANY DISCREPANCIES TO THE

ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN

READ THESE PLANS IN CONJUNCTION WITH APPROVED ARCHITECTURAL,

SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES, IS OBTAINED.

CARE IS TO BE TAKEN WHEN EXCAVTING NEAR EXISTING SERVICES.

ELECTRICAL SERVICES. HAND EXCAVTE IN THESE AREAS.

CONDITION AND NO PART SHALL BE OVERSTRESSED.

BY-LAWS AND ORDINANCIES OF THE RELEVANT AUTHORITIES.

STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATION.

WHERE NEW WORK ABUTS EXISTING, THE CONTRACTOR SHALL ENSURE THAT A

DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT

NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR

ALL BUILDING SURROUND SHOULD BE GRADED TO ENSURE OVERLAND FLOW

FROM UPSTRAM AREAS CAN DRAIN AROUND THE FOUNDATIONS, WALLS OF

DURING CONSTRUCTION. THE STRUCTURE SHALL BE MAINTAINED IN A STABLE

WORKMANSHIP AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE RELEVANT SAA CODES, BCA REQUIREMENTS AND THE SPECIFICATION.

PROPRIETARY PRODUCTS USED SHALL BE INSTALLED TO MANUFACTURERS SPECIFICATION AND TO THE SATISFACTION OF THE SUPERINTENDENT.

ALL ACTIVITIES AND WORKS EXTERNAL TO THE SITE, OR THAT AFFECT

PUBLIC ROADS, ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S

PUBLIC FOOTPATHS SHALL BE RECONSTRUCTED TO THE SATISFACTION OF

PERMIT SHALL BE OBTAINED FOR ALL WORKS CARRIED OUT IN A PUBLIC OR

COUNCIL CONTROLLED LAND. RESTORATION OF LANDSCAPING, ROADS AND

PATHS SHALL BE TO COUNCIL'S REQUIREMENTS. ALL OTHER RESTORATION

WHERE WORKS ARE UNDERTAKEN ON PUBLIC ROADS, ADEQUATE TRAFFIC

<u>DRAINAGE PITS</u> PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT 300mm

DIAMETER 100mm HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE LOCATED

ALL CONNECTIONS TO THE EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN LIKE MANNER AND THE INTERNAL WALLL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.

PIT GRATES AND SOLID COVERS SHALL BE CLASS 'B' IN NON TRAFFIC AREAS

EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE

100mm ABOVE INVERT OF ALL INLET PIPES. DIAMETER 100mm SUBSOIL DRAINAGE TO EXTEND FOR A DISTANCE OF 3.0m UPSTREAM OF PIT

(AT EACH INLET PIT) WITH THE UPSTREAM END SEALED.

AND CLASS 'D' IN TRAFFIC AREAS IN ACCORDANCE WITH

COUNCIL'S DIRECTOR OF ENGINEERING SERVICES. A ROAD OPENING

SHALL BE TOTHE SATISFACTION OF THE AFFECTED PARTIES.

CONTROL AND DIRECTIONS TO MOTORISTS SHALL BE PROVIDED.

ALL EXCAVTION SHORING OF EXCAVATION ANS STABILITY OF ADJACENT STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING AND DRAINAGE - STORMWATER DRAINAGE.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. (AHD)

DO NOT SCALE FROM THE DRAWINGS.

SUPERINTENDENT OR DESIGN ENGINEER.

ON THE DRAWINGS AND SPECIFICATION.

TOPSOIL. (TOPSOIL DEPTH VARIES).

BY A REGISTERED SURVEYOR.

CODES AND STANDARDS.

CENTRES AND STAGGERED.

DRAINAGE PIPES

APPROVED PRECAST PITS MAY BE USED.

RAINWATER STORAGE TANKS TO BE CONFIGURED IN ACCORDANCE WITH SYDNEY WATER SPECIFICATIONS 'GUIDELINES FOR RAINWATER TANKS ON RESIDENTIAL

PROVIDE MAINS 'TOP-UP' SUPPLY TO RAINWATER TANKS. MAINS TOP-UP ZONE TO BE BASED ON THE DAILY NON-POTABLE USAGE THAT MAY BE EXPECTED FROM THE TANK.

PROVIDE A MECHANICAL PUMPING ARRANGEMENT (IN SOUND-PROOF HOUSING) TO PUMP SUPPLIERS SPECIFICATION TO SUIT INTENDED USAGE OF RAINWATER STORAGE. PUMPING ARRANGEMENTS MUST COMPLY WITH EPA GUIDELINES.

INLETS TO RAINWATER TANKS MUST BE SCREENED TO PREVENT THE ENTRY OF FOREIGN MATTER,

A SIGN MUST BE AFFIXED TO THE RAINWATER TANKS AND HOSE TAPS AS PER AS3500.1 CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER AND IS NOT TO BE USED FOR

'First Flush' device to be provided to each downpipe or if preferred A single device to be provided on the upstream side of storage tank for each piped Inlet to storage tank. A single first flush device may be provided in lieu of each

RAINWATER TANKS TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE IN ACCORDANCE WITH THE MANUFACTURER'S OR STRUCTURAL ENGINEER'S DETAILS.

THE TANK MUST NOT BE INSTALLED OVER ANY MAINTENANCE STRUCTURE OR FITTINGS USED BY

RAINWATER TANKS AND ASSOCIATED PLUMBING WORKS TO BE INSTALLED AND CONFIGURED BY A LICENSED PLUMBER. PUMP TO BE INSTALLED BY A LICENSED ELECTRICIAN.

UNDERGROUND SERVICES DIAL 1100 BEFORE YOU DIG FOR LOCATION OF UNDERGROUND SERVICES PRIOR TO ANY CONSTRUCTION WORKS.

CONTACT TELSTRA FOR WRITTEN PERMISSION TO MAINTAIN OR RELOCATE ANY EXISTING SERVICE PIT.

ALL SERVICES ARE TO MATCH INTO THE NEW FOOTPATH LEVELS CONTACT THE RELEVANT AUTHORITY FOR ADJUSTMENT TO SERVICES.

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PROVISIONS OF THE BUILDING CODE OF AUSTRALIA AND/OR RELEVANT AUSTRA TENGSC (Civil), MILAUST.

JNS OF DEVELOPMENT CONSENT, THE

BALIAN INDOCENTY STANDARDS. DATE: 21/12/2018 Michal Korecky

I	1	ISSUED FOR DA ONLY	21/12/18
L	No.	AMENDMENT	DATE
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52	DRAWING Nr : 17040	SHEET: SW-2