PROPOSED SUBDIVISION 37-39 PAVESI STREET, WEST GUILDFORD NSW 2161

STORMWATER CONCEPT DESIGN

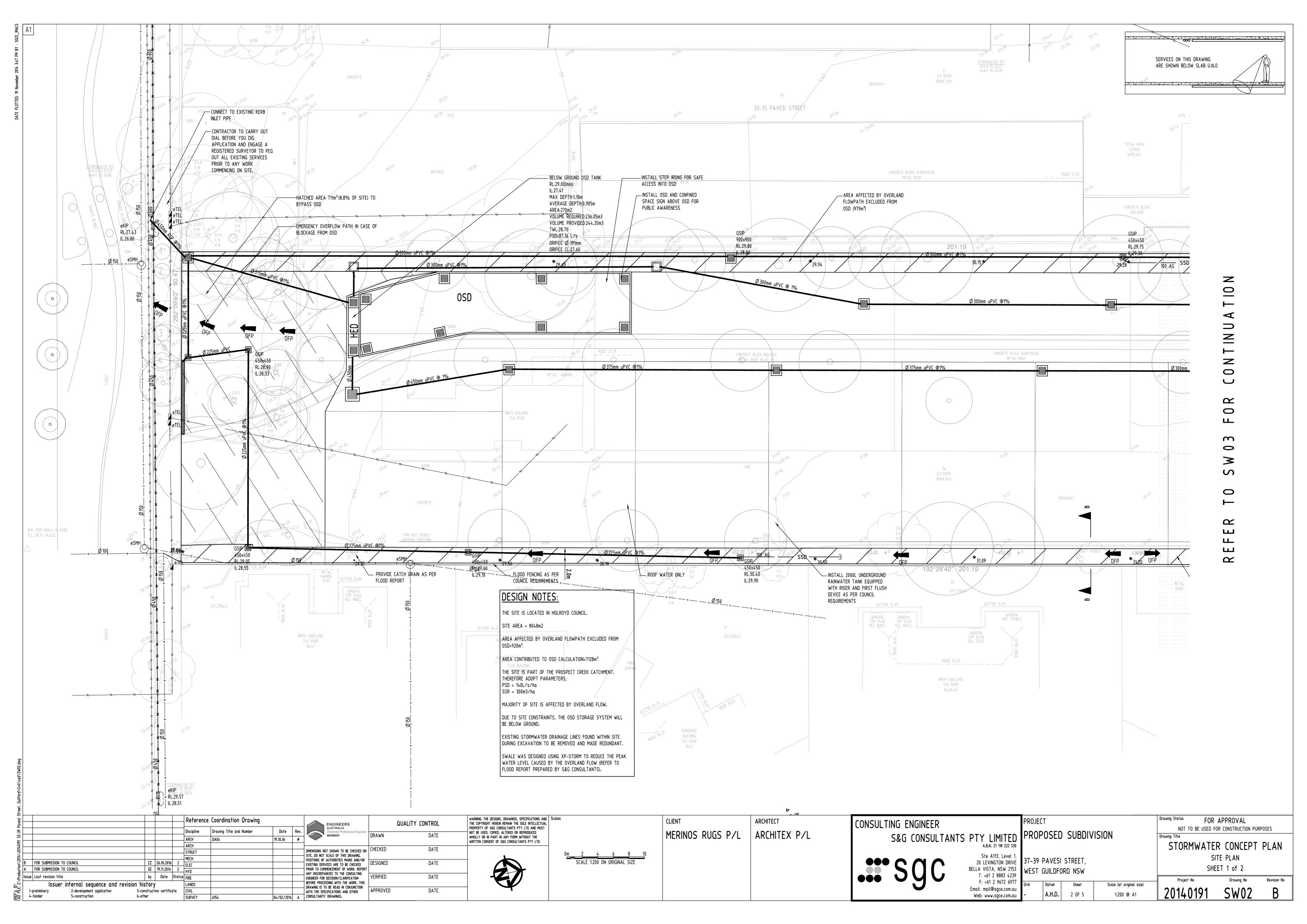


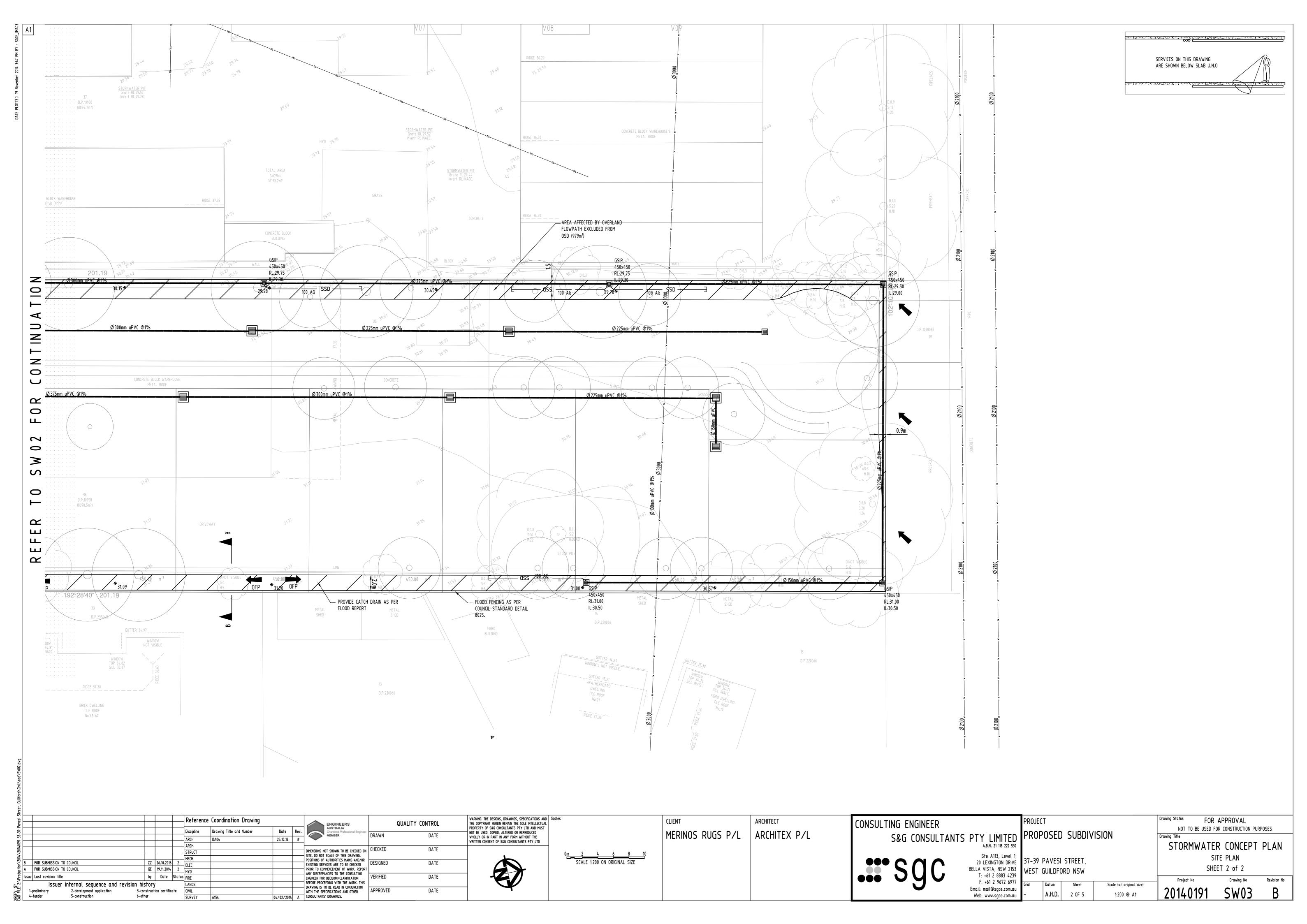
SGC

LOCALITY PLAN

	DRAWING REGISTER	
No.	TITLE	REV
SW01	COVER SHEET	В
SW02	STORMWATER CONCEPT PLAN - SITE PLAN - SHEET 1	В
SW03	STORMWATER CONCEPT PLAN - SITE PLAN - SHEET 2	В
SW04	DETAILS SHEET	В
SW05	EROSION AND SEDIMENT CONTROL - PLAN & DETAILSQ	В

COVER SHEET FOR APPROVAL





DRAINAGE NOTES:

- ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED
- 100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE
- MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm
- ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS
- BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL
- ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)
- HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS
- PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT
- ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP
- ALL PITS SHALL BE MAINTAINED REGULARLY
- TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER
- Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES
- COMPRESSIVE STRENGTH f'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28
- PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS
- ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

TWL:28.70

2-development application

5-construction

3-construction certificate

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

900SQ HEAVY DUTY —

-REFER TO STRUCTURAL

ENGINEER'S DRAWINGS

HIGH EARLY DISCHARGE —

RL:27.65—

SECTION

DCP - OSD

NOT TO SCALE

CAP TO BE SECURED WITH -

CONCRETE SURROUND

FOR TANK DETAILS

WALL 0.9m WIDE

300mm INLET PIPE-

STEP IRONS AT-

300mm CENTRES

BASE FALL @1.0%

150mm uPVC PIPE

WITH FLAP VALVE

—V-SHAPE CONCRETE BASE AT 0.5% CROSSFALLS

TO AS 1657

GRATE & FRAME

AUTHORITY STORMWATER NOTES:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.
- 2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.
- 3. SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES. WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
- 5. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
- 6. THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS PIPE BACKFILL DENSITY INDEX 75

100% MODIFIED

-900SQ HEAVY DUTY

GRATE & FRAME

-LOCKING LATCH

-LIFTING HANDLE

LYSAGHT MAXIMESH

SCREEN RH3030

−Ø375mm FRC

OUTLET PIPE

-5mm THICK S/S

ORIFICE PLATE

- 2x40mm RELIEF

- 20mm BLUE METAL

WRAPPED WITH GEOTEXTILE

DATE

WITH THE SPECIFICATIONS AND OTHER

FABRIC TYPE BIDIM A24

DRAINS

- SELECT FILL 95% STANDARD SELECT FILL (LESS THAN 300mm 98% MODIFIED BELOW BASE COURSE)
- 7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

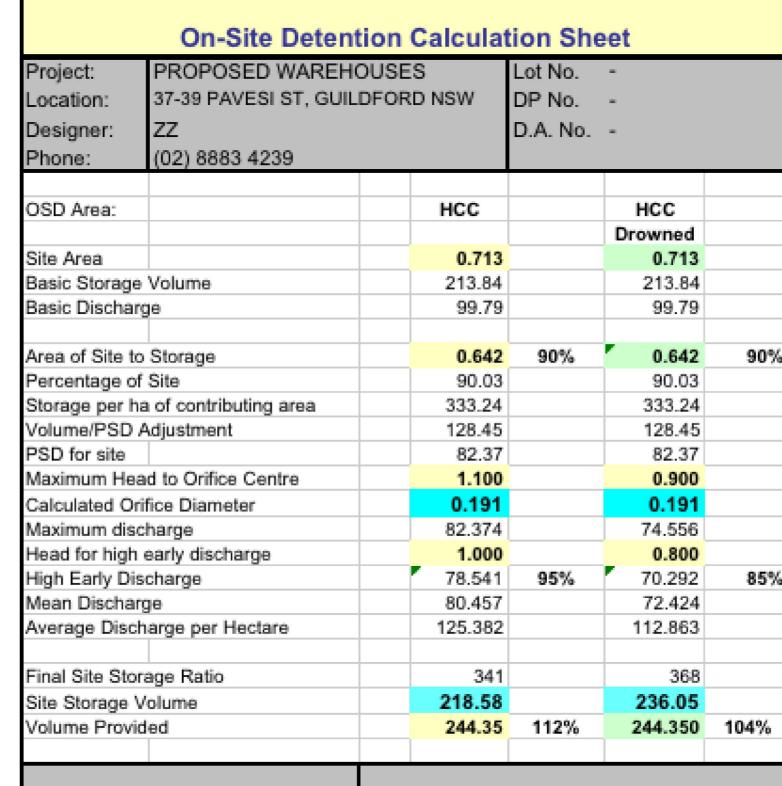
KERB INLET PIT NOTES:

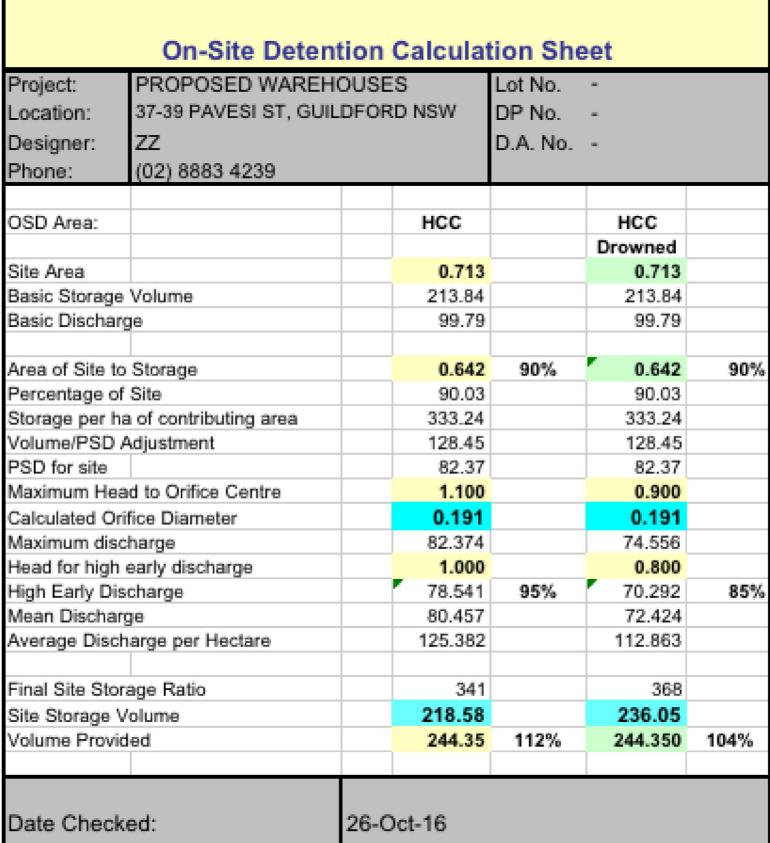
BASE COURSE

RL:28.60 (TOW)

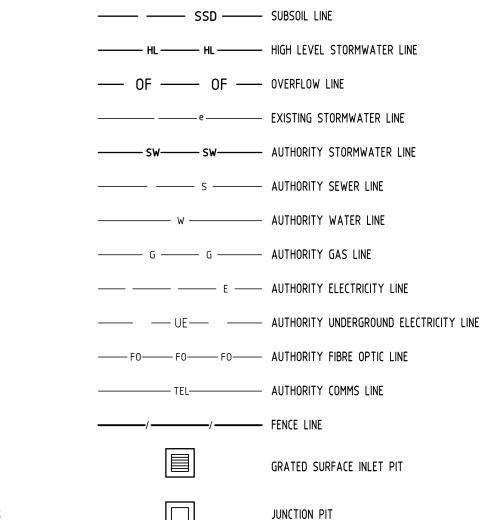
- 1. KERB INLET PITS TO BE CONSTRUCTED TO LOCAL COUNCIL STANDARDS.
- 2. ALL KERB INLET PITS TO BE CAST IN-SITU.
- 3. ALL CONCRETE SHALL BE 25MPa STRENGTH AT 28 DAYS WITH F82 MESH CENTRALLY PLACED.

-RL:29.00 MIN





ABBREVIATIONS: Ø or DIA GSIP HYD TWL UPVC



STORMWATER LINE

KERB INLET PIT

EXISTING KERB INLET PIT

EXISTING TELSTRA PIT

EXISTING HYDRANT

EXISTING STOP VALVE

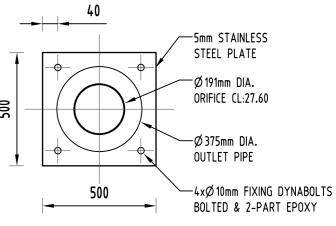
EXISTING GAS VALVE

EXISTING POWER POLE

EXISTING BOUNDARY TRAP

EXISTING SEWER MANHOLE

LEGEND:



DIAMETER CHAINAGE

CENTER LINE

CLEAR OUT

DOWNPIPE

EXISTING

HYDRANT

INVERT LEVEL

KERB INLET PIT

KERB & GUTTER

REDUCED LEVEL

RETAINING WALL

RAINWATER TANK

SEWER MAN HOLE

STORMWATER

STOP VALVE

TOP OF KERB

TOP OF WALL

CHLORIDE

TOP WATER LEVEL

UNPLASTICISED POLYVINYL

UNLESS NOTED OTHERWISE

OVERLAND FLOW PATH

REINFORCED CONCRETE PIPE

ON-SITE DETENTION

FINISHED FLOOR LEVEL

GRATED TRENCH DRAIN

GRATED SURFACE INLET PIT





FORMULA: Q = 1.67xWxH1.5 WITH. 100yr 5min ARI STORM= 221mm/hr Q=CIA/3600=1x221x6540/3600=401L/s $Q = Q_{100} - PSD = 0.401 - 0.0872 = 0.314 \text{m}^3/\text{s}$

H = 0.1m

OVERLAND FLOW PATH CAP DROP DOWNPIPE

> SERVICES SHOWN ON PLAN ARE INDICATIVE EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE

> YOU DIG APPLICATION AND ENGAGE A REGISTERED

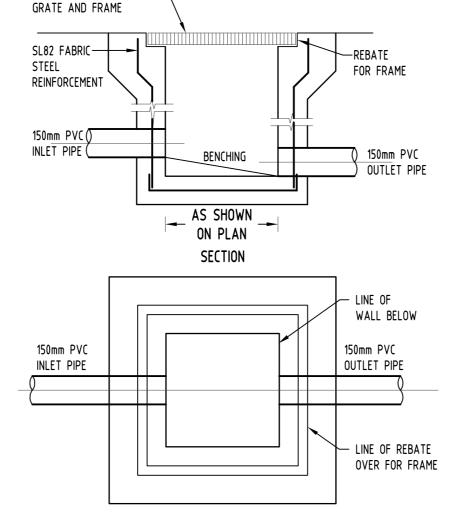
SURVEYOR TO PEG OUT ALL EXISTING SERVICES

PRIOR TO ANY WORK COMMENCING ONSITE.

SPOT LEVELS

GALVANISED STEEL GRATE MINIMUM 1% GRADE-BASE FALL TO OUTLET

> DETAIL GRATED TRENCH DRAIN SCALE 1:20



400

THIS IS AN

ON-SITE STORMWATER

DETENTION SYSTEM IT IS AN OFFENSE TO TAMPER WITH THIS

DEVICE WITHOUT THE WRITTEN CONSENT OF

HOLROYD COUNCIL

THIS PLATE MUST NOT BE

REMOVED

450

CONFINED SPACES

NO ENTRY WITHOUT

CONFINED SPACE

TRAINING

HEAVY DUTY GALV STEEL-

DETAIL

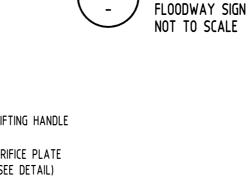
OSD SIGN

SCALE 1:10

CONFINED SPACE SIGN







FLOODWAY

WARNING

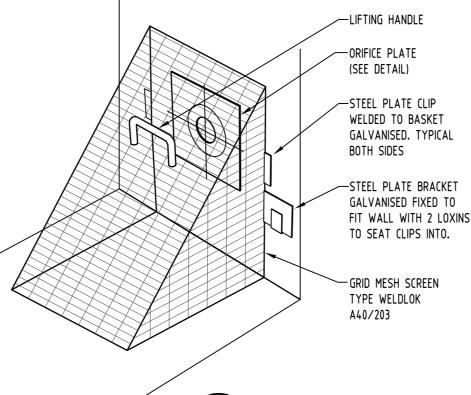
RAIN MAY CAUSE FLOOD

WATERS TO RISE

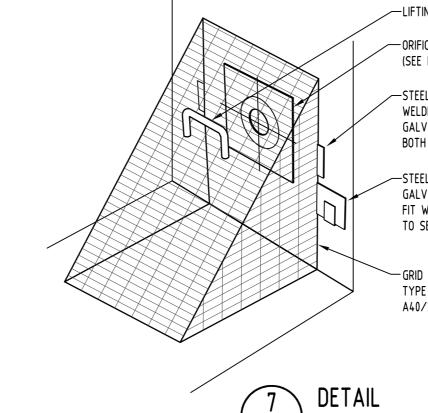
KEEP OFF THIS AREA

DURING HEAVY RAIN

DETAIL



DETAIL TRASH SCREEN



SCALE 1:20

LIGHT DUTY AIR TIGHT-SCREW DOWN CAP uPVC PIPE DRAINAGE LINE -AT MIN 1.0% GRADE STEP IRONS SCALE 1:10 CLEANING EYE SCALE 1:10 Reference Coordination Drawing

QUALITY CONTROL Drawing Title and Number Discipline ARCH ARCH DATE DIMENSIONS NOT SHOWN TO BE CHECKED ON CHECKED STRUCT SITE. DO NOT SCALE OF THIS DRAWING. ___ MECH POSITIONS OF AUTHORITIES MAINS AND/OR ZZ 26.10.2016 2 ELEC FOR SUBMISSION TO COUNCIL EXISTING SERVICES ARE TO BE CHECKED FOR SUBMISSION TO COUNCIL GE | 19.11.2014 | 2 PRIOR TO COMMENCEMENT OF WORK, REPORT ANY DISCREPANCIES TO THE CONSULTING by Date Status FIRE DATE ENGINEER FOR DECISION/CLARIFICATION

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0.1 0.2 0.3 0.4 0.5 SCALE 1:10 ON ORIGINAL SIZE 0,2 0,4 0,6 0,8 1, SCALE 1:20 ON ORIGINAL SIZE

ARCHITECT MERINOS RUGS P/L ARCHITEX P/L

EMBANKMENT

1 \sum_{2}

CONSULTING ENGINEER

—HED/TOW:28.60

6000

—TWL:28.70

DETAIL

HED WEIR NOT TO SCALE

- SITE BOUNDARY

VARIES (REFER TO PLAN)

—GRASS FINISH TO

CATCH DRAIN

NOT TO SCALE

ARCHITECT SPECIFICATIONS

S&G CONSULTANTS PTY LIMITED

PROPOSED SUBDIVISION Ste A113, Level 20 LEXINGTON DRIVE

37-39 PAVESI STREET, WEST GUILDFORD NSW

PROJECT

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES STORMWATER CONCEPT PLAN DETAILS SHEET

Drawing No 2014019

BEFORE PROCEEDING WITH THE WORK, THIS Issuer internal sequence and revision history DRAWING IS TO BE READ IN CONJUNCTION

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Scale (at original size) A.H.D. 1:200 @ A1

