AUTHORITY STORMWATER NOTES:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVEL PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDENT.
- 2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTRELINE OF FENCE/BOLARD/PIPE.
- 3. SMOOTH ALL TRANSITION 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 AND COMPACTIONS AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY MINIMUM
- THREE TESTS PER LAYER AS FOLLOWS DENSITY INDEX 75 PIPE BACKFILL
- SELECT FILL 95% STANDARD SELECT FILL (LESS THAN 300mm FOLLOW BASE COURSE) 98% MODIFIED
- 7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

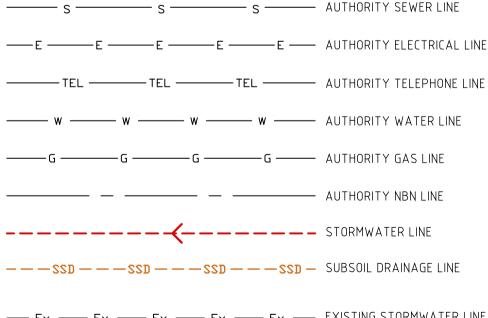
100% MODIFIED

DRAINAGE NOTES:

BASE COURSE

- 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 600 x 600mm INTERNAL DIMENSIONS (U.N.O).
- SILT ARRESTORS TO HAVE 900 x 900mm INTERNAL DIMENSIONS.
- 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 LIP.
- ALL PITS SHALL BE MAINTAINED REGULARLY.
- TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER.
- MAXIMUM FRONT ENTRY PIPE:-STRAIGHT ENTRY - Ø750
- SKEW ENTRY Ø525
- \$\phi_100 \text{ SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED
- COMPRESSIVE STRENGTH f'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 32 MPa AT
- 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 MINIMUM CLEAR WIDTH OF 200mm.
- STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE
- REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.
- THESE DRAWINGS ARE TO BE IN ACCORDANCE WITH AS 3500.3 (U.N.O)

LEGEND



— Ex. — Ex. — Ex. — Ex. — EX. — EXISTING STORMWATER LINE



DOWNPIPE

GRATED SURFACE INLET PIT



EXISTING DOWNPIPE

FIRST FLUSH DIVERTER

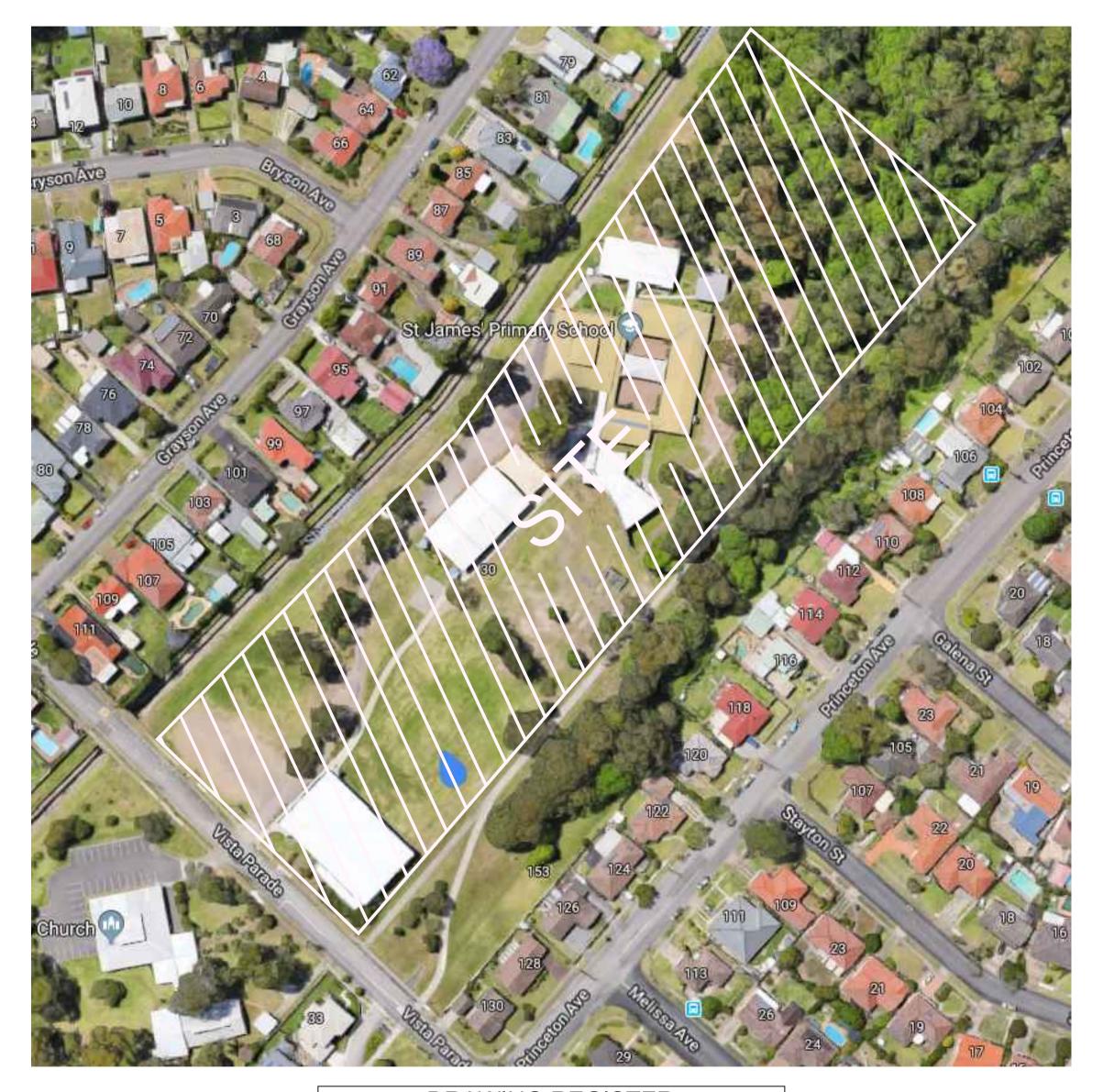


SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU

DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL

EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

ST. JAMES PRIMARY SCHOOL KOTARA SOUTH STORWATER DRAINAGE CONCEPT PLAN



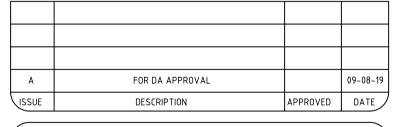
	DRAWING REGISTER	
NO.	TITLE	REV.
SW.00	COVER SHEET	А
SW.01	OVERALL SITE MASTERPLAN	А
SW.02	STORMWATER DRAINAGE PART PLAN - SHEET 1	А
SW.03	STORMWATER DRAINAGE PART PLAN - SHEET 2	А
SW.04	STORMWATER DRAINAGE PART PLAN - SHEET 3	Α
SW.05	STORMWATER DRAINAGE PART PLAN - SHEET 4	А
SW.06	STORMWATER DRAINAGE PART PLAN - SHEET 5	А
SW.07	STORMWATER DRAINAGE PART PLAN - SHEET 6	А
SW.08	STORMWATER DRAINAGE PART PLAN - SHEET 7	А
SW.09	STORMWATER DRAINAGE DETAILS - SHEET 1	А
SW.10	OSD TANK DETAILS - SHEET 1	А

ABBREVIATIONS

OR DIA	DIAPILILA
NR	CALIFORNIA BEARING RATIO
Н	CHAINAGE
L	CENTRE LINE
0	CLEAR OUT
D	DISH CROSSING
DO	DISH DRAIN OUTLET
EJ	DOWELLED EXPANSION JOINT
GB	DENSE GRADED BASECOURSE
GS	DENSE GRADED SUB-BASE
P	DOWNPIPE
	EXISTING
FL	FINISHED FLOOR LEVEL
TD	GRATED TRENCH DRAIN
SIP	GRATED SURFACE INLET PIT
YD	HYDRANT
	ISOLATING JOINT
•	
`	INTEGRAL KERB
	INVERT LEVEL
	INTERSECTION POINT
IP	KERB INLET PIT
0	KERB ONLY
&G	KERB & GUTTER
R	KERB RETURN
S	LONGITUDINAL SECTION
GL	NATURAL GROUND LEVEL
FP	OVERLAND FLOW PATH
SD	ON-SITE DETENTION
	RADIUS
CP	REINFORCED CONCRETE PIPE
K	ROLL KERB & GUTTER
L	REDUCED LEVEL
W	RETAINING WALL
WT	RAINWATER TANK
J	SAWN CONTROL JOINT
MH	SEWER MAN HOLE
W	STORMWATER
WP	STORMWATER PIT
WRM	STORMWATER RISING MAIN
WS	STORMWATER SUMP
V	STOP VALVE
OK	TOP OF KERB
OW	TOP OF WALL
P	TANGENT POINT
PVC	UNPLASTICISED POLYVINYL CHRLORIDE
NO	UNLESS NOTED OTHERWISE
NO	ONLLOS NOTED OTHER WISE

WEAKENED PLANE JOINT

DIAMETER



I FOR CONS

REL NOT

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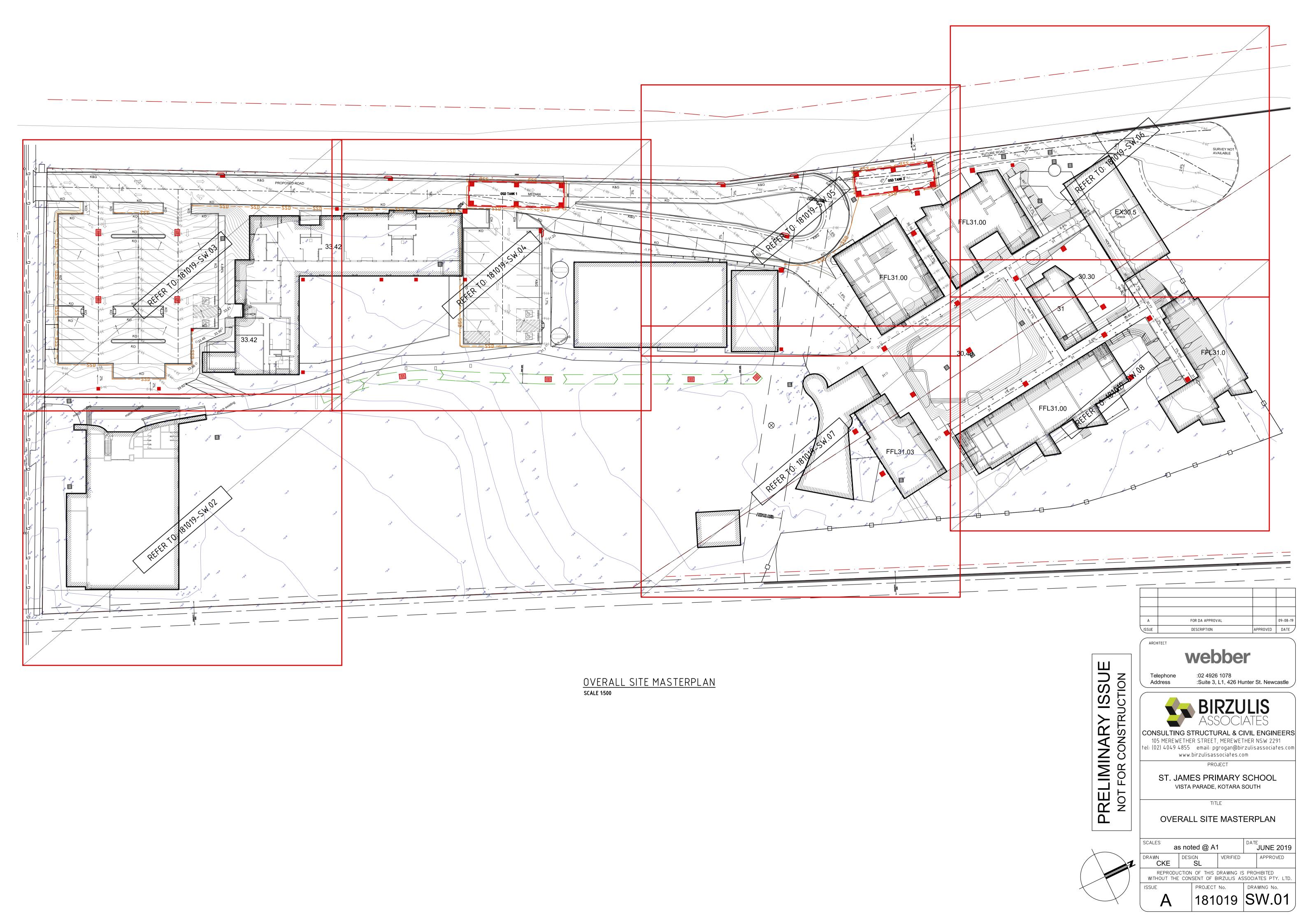


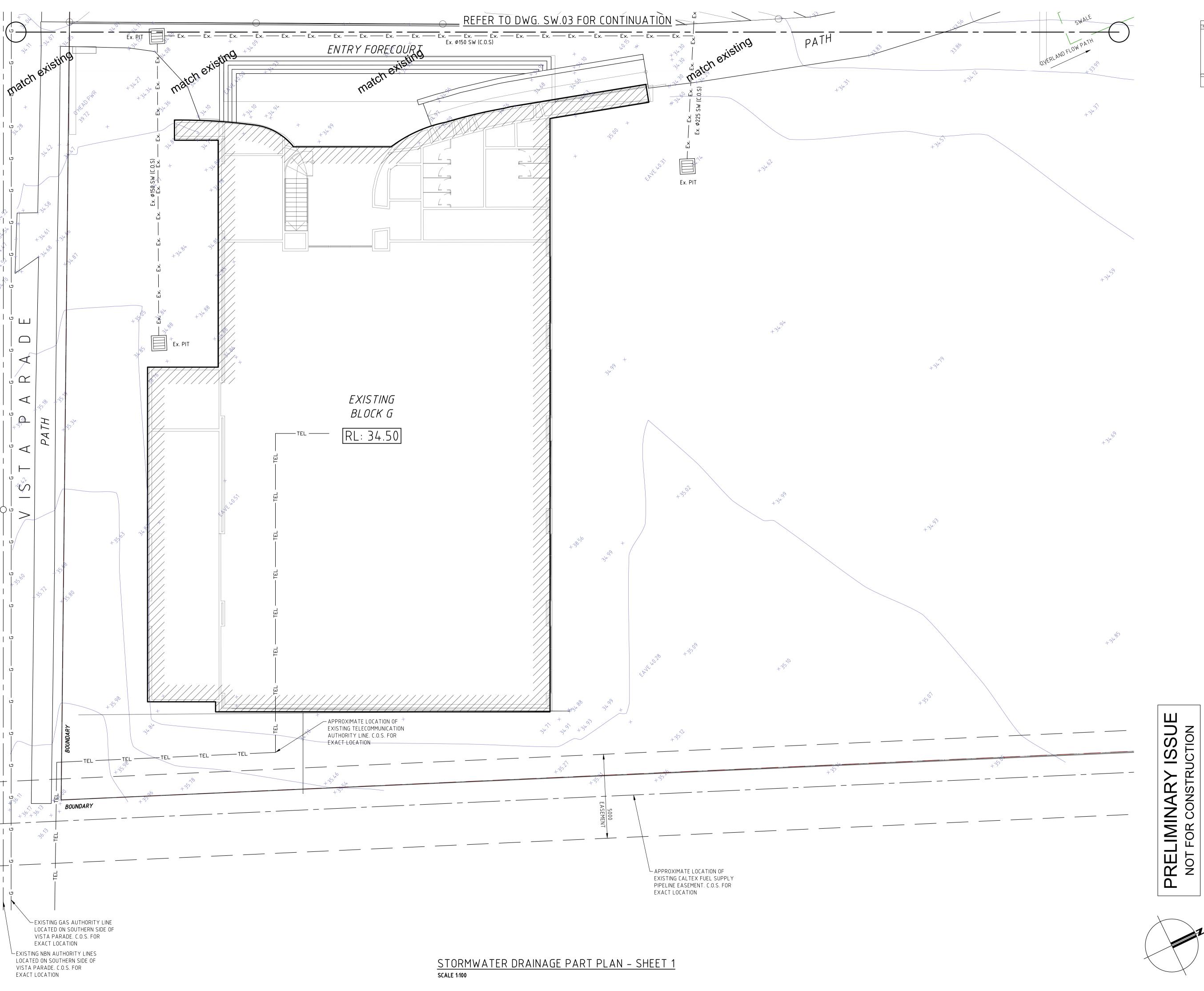
105 MEREWETHER STREET, MEREWETHER NSW 2291 tel: (02) 4049 4855 email: pgrogan@birzulisassociates.com www.birzulisassociates.com

ST. JAMES PRIMARY SCHOOL VISTA PARADE, KOTARA SOUTH

COVER SHEET

as noted @ A1 **JUNE 2019** DESIGN REPRODUCTION OF THIS DRAWING IS PROHIBITED WITHOUT THE CONSENT OF BIRZULIS ASSOCIATES PTY. LTD.



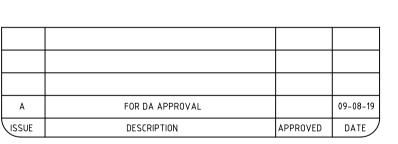


SERVICES ON THIS DRAWING ARE SHOWN BELOW SLAB U.N.O.

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NOTE:
ALL EXISTING DRAINAGE TO BE INSPECTED BY A
REGISTERED PLUMBER AND CERTIFIED THAT IT IS
IN GOOD WORKING CONDITION.
OTHERWISE, ALLOW TO RECTIFY AND/OR REPLACE
AS NECESSARY.

NOTE:
PROVIDE STEP IRONS TO ALL PITS/OSD TANKS IF
DEPTH EXCEEDS 900mm.



webber

WEDDETelephone :02 4926 1078

Address

:02 4926 1078 :Suite 3, L1, 426 Hunter St. Newcastle



CONSULTING STRUCTURAL & CIVIL ENGINEERS

105 MEREWETHER STREET, MEREWETHER NSW 2291

tel: (02) 4049 4855 email: pgrogan@birzulisassociates.com

www.birzulisassociates.com

PROJECT

ST. JAMES PRIMARY SCHOOL VISTA PARADE, KOTARA SOUTH

STORMWATER DRAINAGE PART PLAN - SHEET 1

SCALES

as noted @ A1

DATE JUNE 2019

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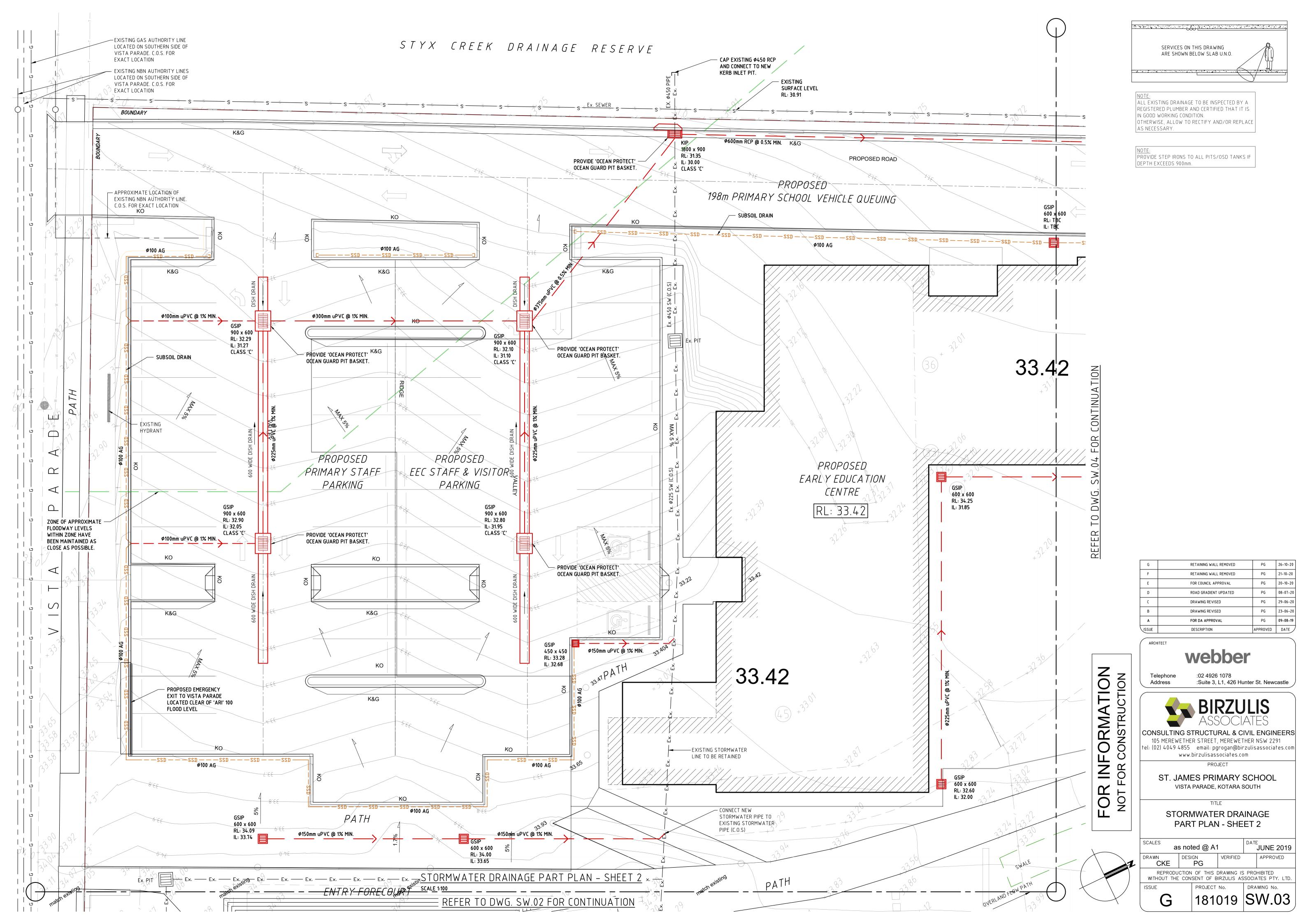
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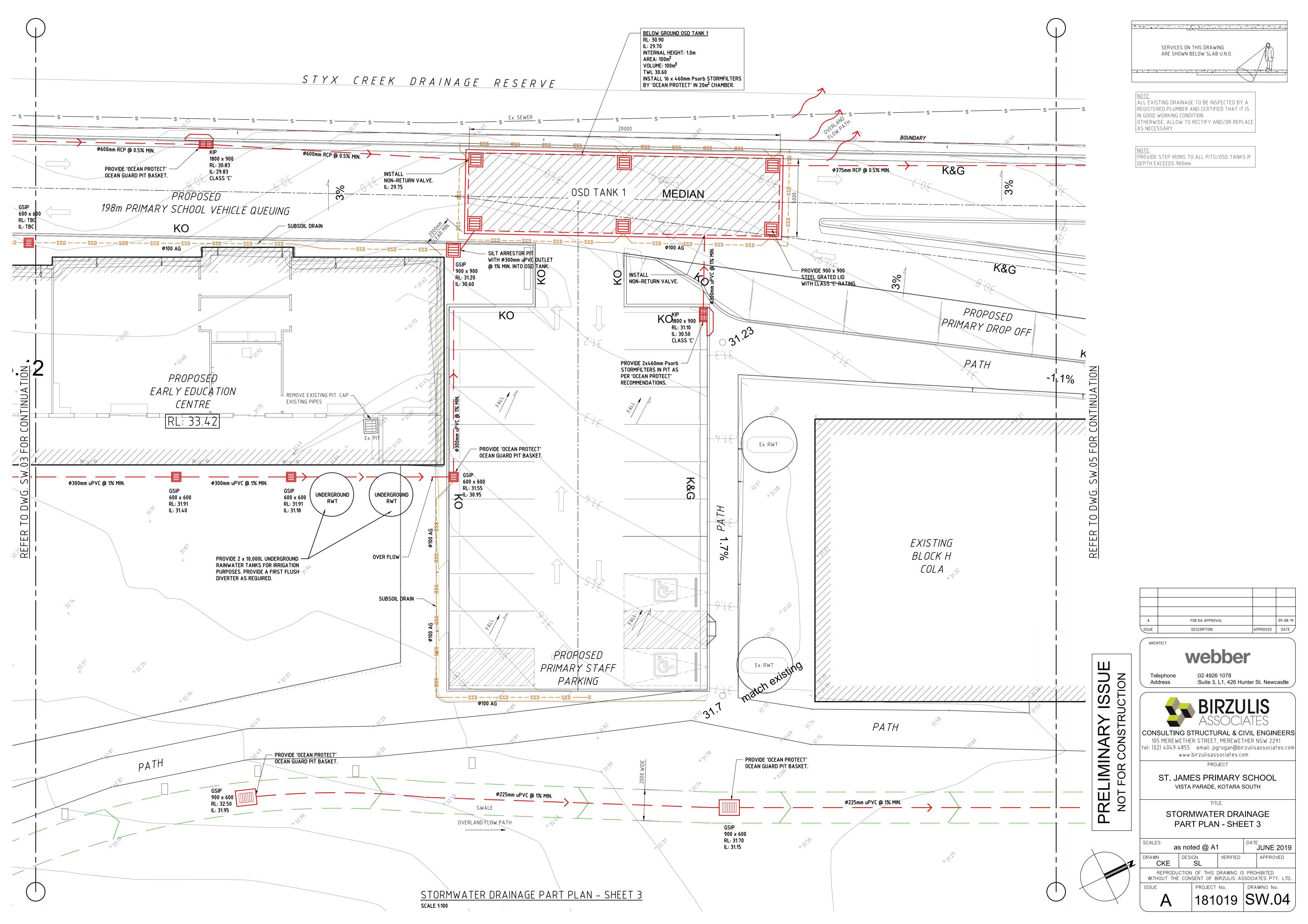
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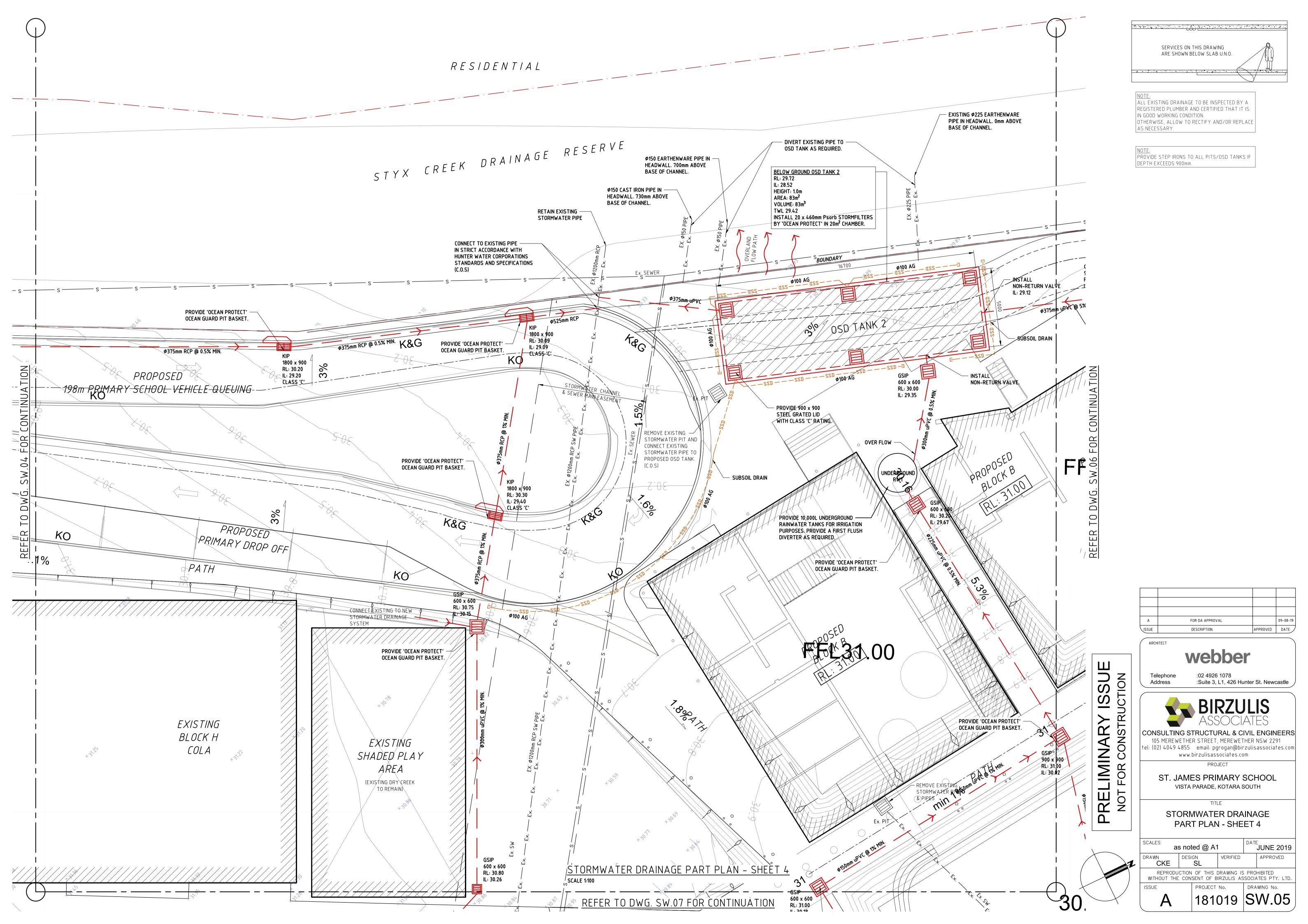
BIRZULIS ASSOCIATES PTY. LTD.

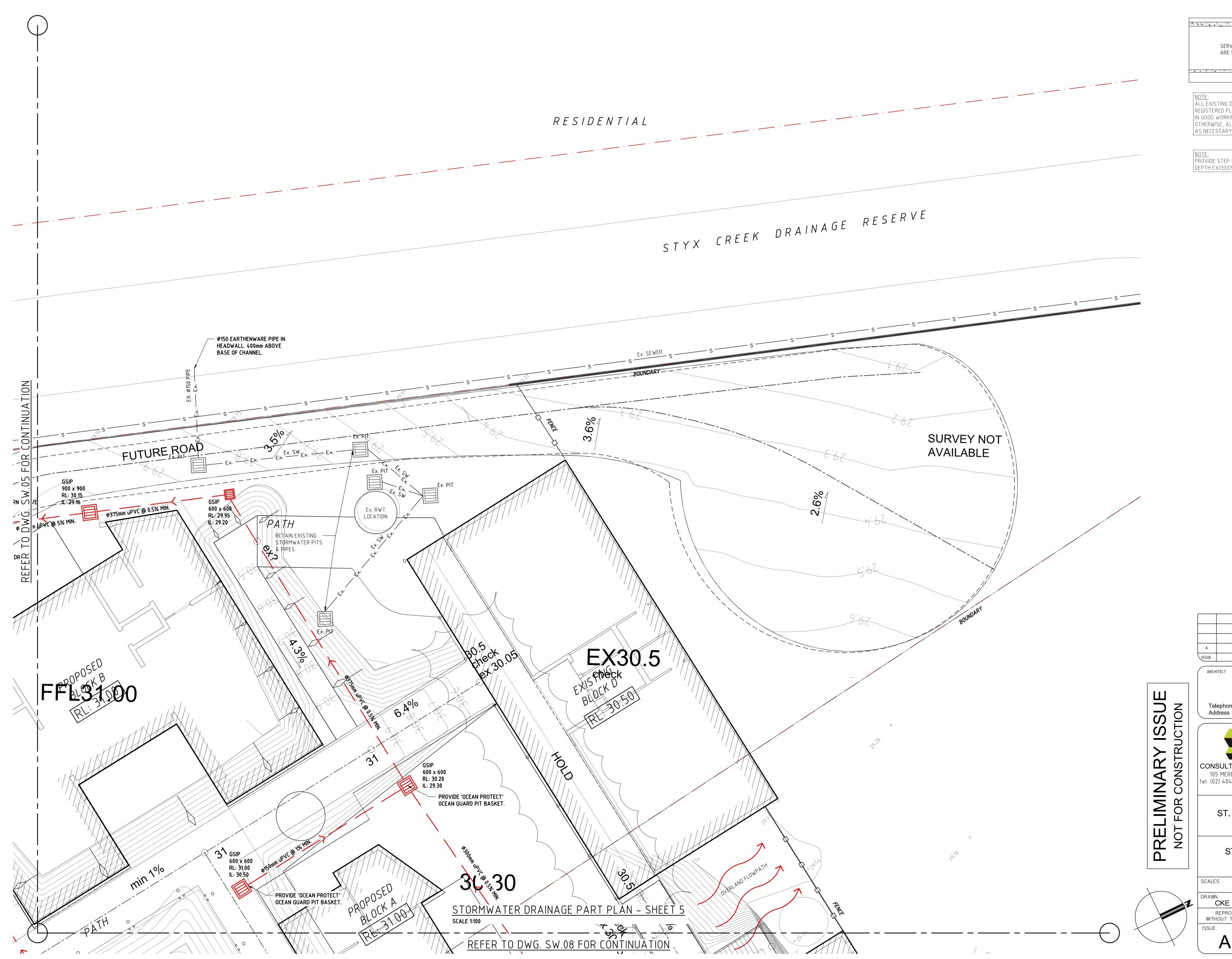
PROJECT 1810

181019 | DRAWING No. | SW.02







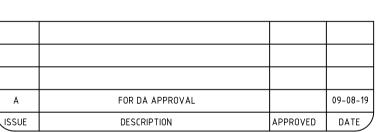


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SERVICES ON THIS DRAWING ARE SHOWN BELOW SLAB U.N.O.

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NOTE:
PROVIDE STEP IRONS TO ALL PITS/OSD TANKS IF
DEPTH EXCEEDS 900mm.



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:02 4926 1078 :Suite 3, L1, 426 Hunter St. Newcastle



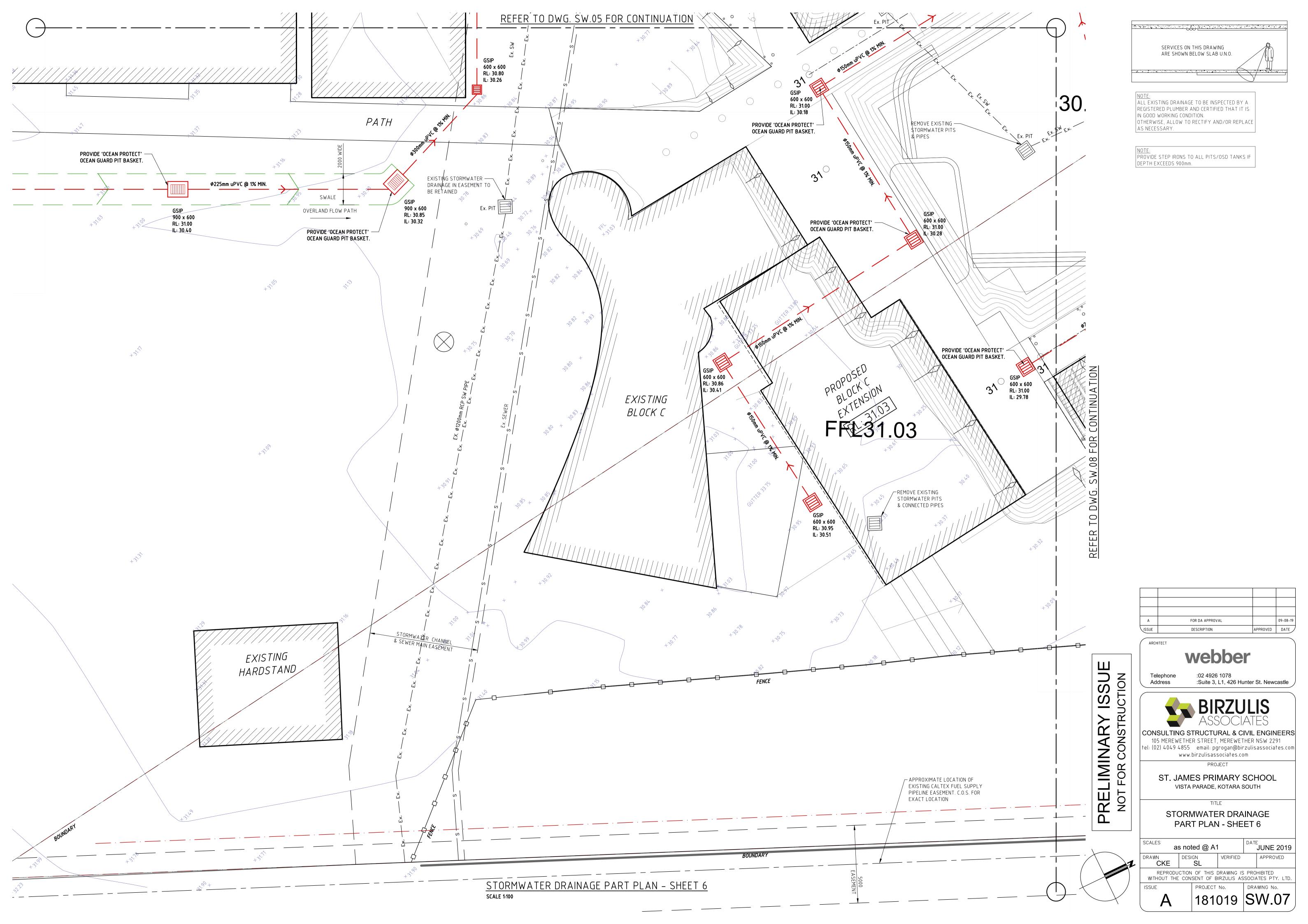
105 MEREWETHER STREET, MEREWETHER NSW 2291 tel: (02) 4049 4855 email: pgrogan@birzulisassociates.com www.birzulisassociates.com

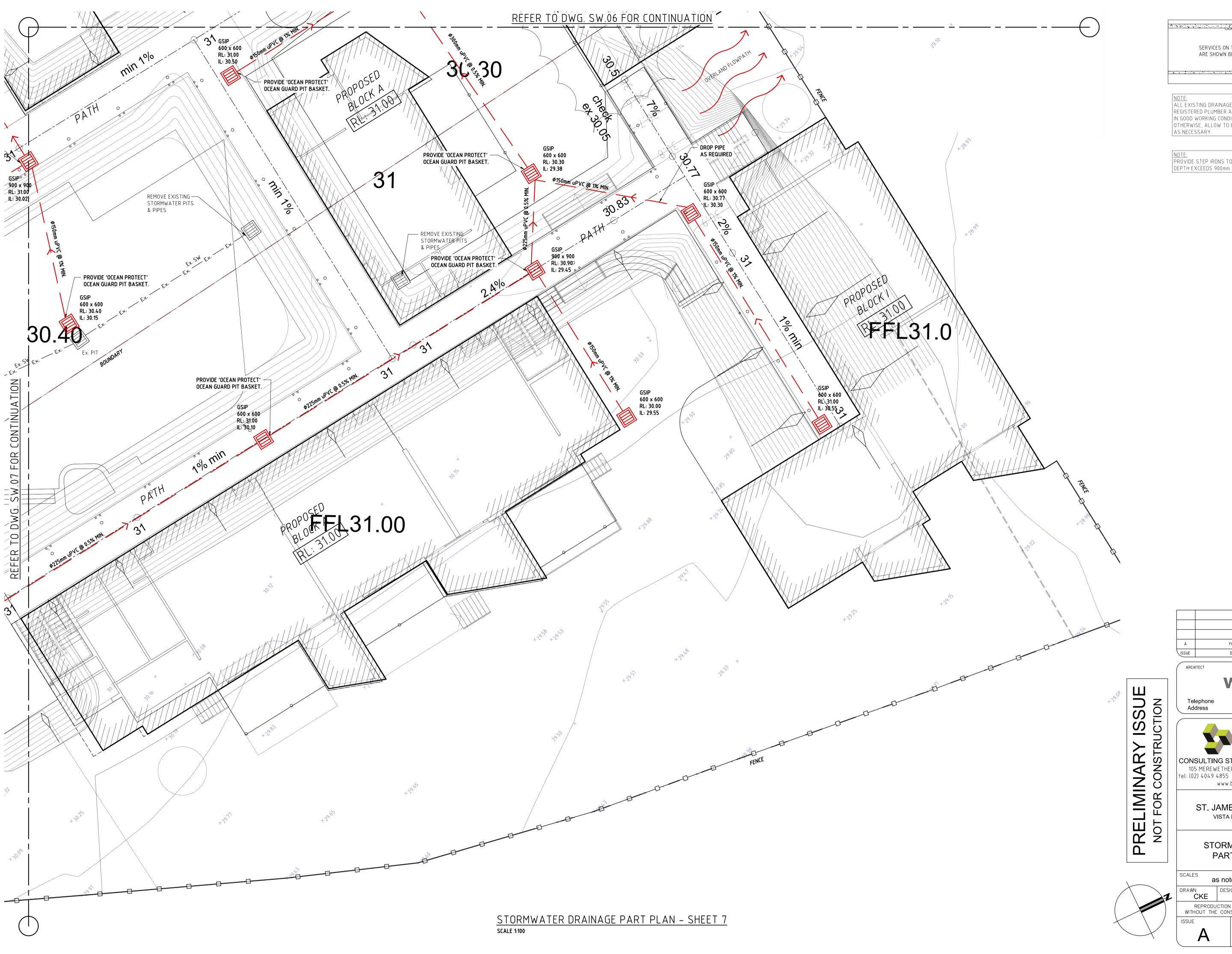
PROJECT

ST. JAMES PRIMARY SCHOOL VISTA PARADE, KOTARA SOUTH

TITLE STORMWATER DRAINAGE PART PLAN - SHEET 5

	SCALES as	s noted @ A	1	DATE	JUNE 2019
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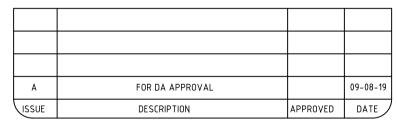
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SERVICES ON THIS DRAWING

ARE SHOWN BELOW SLAB U.N.O.

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PROVIDE STEP IRONS TO ALL PITS/OSD TANKS IF



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PROJECT

ST. JAMES PRIMARY SCHOOL VISTA PARADE, KOTARA SOUTH

STORMWATER DRAINAGE PART PLAN - SHEET 7

JUNE 2019 as noted @ A1 DESIGN SL VERIFIED REPRODUCTION OF THIS DRAWING IS PROHIBITED WITHOUT THE CONSENT OF BIRZULIS ASSOCIATES PTY. LTD.

181019 SW.08

AUTHORITY STORMWATER NOTES: 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVEL PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDENT.

FENCE/BOLARD/PIPE.

BASE COURSE

2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTRELINE OF

3. SMOOTH ALL TRANSITION 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

5. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS

6. THE CONTRACTOR SHALL PROVIDE CERTIFICATION AND COMPACTIONS AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY MINIMUM THREE TESTS PER LAYER AS FOLLOWS

PIPE BACKFILL DENSITY INDEX 7 SELECT FILL 95% STANDARD SELECT FILL (LESS THAN 300mm FOLLOW BASE COURSE) 98% MODIFIED

100% MODIFIED

APPROVED PRECAST KERB INLET

LINTEL (R.M.S. STANDARD OR EQUIVALENT)

7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY

DRAINAGE NOTES:

SUPPORTED.

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE (U.N.O.).

ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE FOLLOWING AUSTRALIAN STANDARDS AS2032, AS3500, AND AS3725 AS A MINIMUM.

ALL PIPES LESS THAN OR EQUAL TO \$\phi 300mm IN SIZE ARE TO BE SOLVENT WELD-JOINTED uPVC CLASS SN8 U.N.O. ALL PIPES Ø375mm OR GREATER IN SIZE ARE TO BE MIN. CLASS 2 REINFORCED

CONCRETE PIPE (RCP) OR FIBRE REINFORCED CONCRETE (FRC) RUBBER RING

JOINTED (RRJ) U.N.O. MINIMUM COVER FROM THE OBVERT OF THE STORMWATER PIPE OF 300mm IS TO BE PROVIDED IN LANDSCAPED AREAS AND 600mm IN VEHICULAR TRAFFICKED AREAS

WHERE MINIMUM COVER CANNOT BE ACHIEVED CONCRETE ENCASEMENT OF THE AFFECTED PIPE IS MAY BE UNDERTAKEN WITH 32MPa CONCRETE WITH A MIN. COVER OF 150mm TO ALL SIDES OF THE PIPE. THE CONTRACTOR SHALL CONFIRM THIS REQUIREMENT WITH THE ENGINEER OR SUPERINTENDENT.

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS.

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE

ALL PITS TO HAVE 600 x 600mm INTERNAL DIMENSIONS (U.N.O)

SILT ARRESTORS TO HAVE 900 x 900mm INTERNAL DIMENSIONS.

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 LIP.

ALL PITS SHALL BE MAINTAINED REGULARLY

MPa AT 28 DAYS.

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER.

\$\phi\$100 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 32

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS (U.N.O.).

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM

ALL TRENCH GRATES PROVIDED SHALL HAVE MINIMUM CLEAR WIDTH OF 200mm (U.N.O.).

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

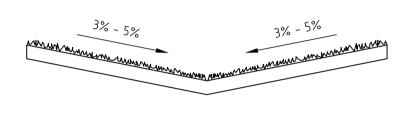
MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

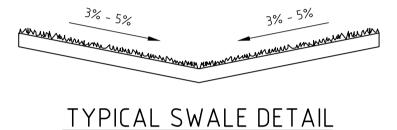
DEPTH TO	MINIMUM I	NTERNAL DII (mm)	MENSIONS
INVERT OF OUTLET	RECTAN	NGULAR	CIRCULAR
UUILEI	WIDTH	LENGTH	DIAMETER
?600	450	450	600
>600 - ?900	600	600	900
>900 - ?1200	600	900	1000
> 1200	900	900	1000

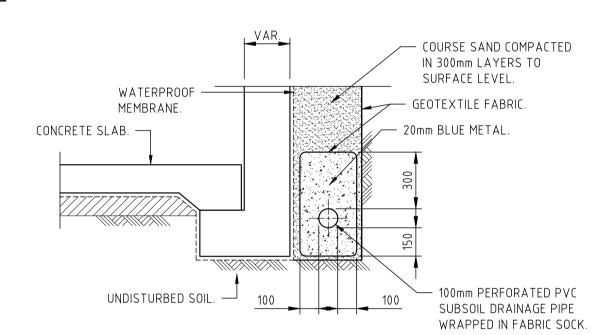
NOTE:

 PIT SIZES HAVE BEEN NOMINATED. ALL PIT DIMENSIONS AND DEPTH MUST COMPLY WITH MINIMUM INTERNAL DIMENSIONS (REFER TO TABLE 7.5.2.1, AS/NZS 3500.3/2018).

- PROVIDE HEEL GUARD TO ALL GRATED SURFACE PITS AND TRENCH GRATES WHERE PEDESTRIAN TRAFFIC IS APPLICABLE.
- PROVIDE GALVANISED STEP IRONS TO PITS IF PIT DEPTH EXCEEDS 1000mm.







TYPICAL SUBSOIL DRAINAGE DETAIL

LEGEND

AUTHORITY SEWER LINE

— w — — w — AUTHORITY WATER LINE

— — — — — — STORMWATER LINE

Ex. DP

— Ex. — Ex. — Ex. — Ex. — EXISTING STORMWATER LINE

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.

-E ----E --- AUTHORITY ELECTRICAL LINE

— TEL — AUTHORITY TELEPHONE LINE

——— G ———— AUTHORITY GAS LINE

GRATED SURFACE INLET PIT

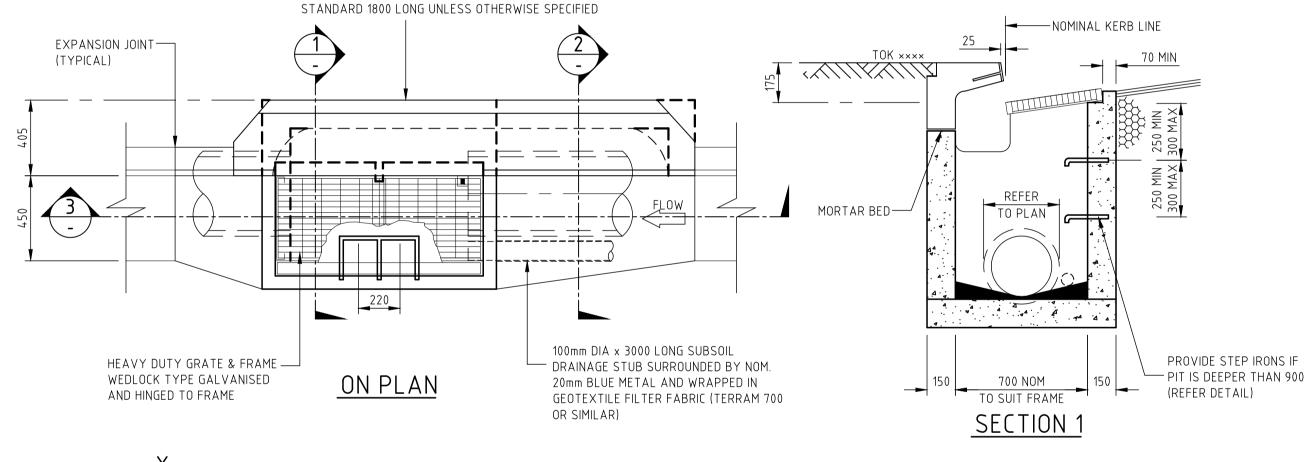
CLEANING EYE/INSPECTION OPENING

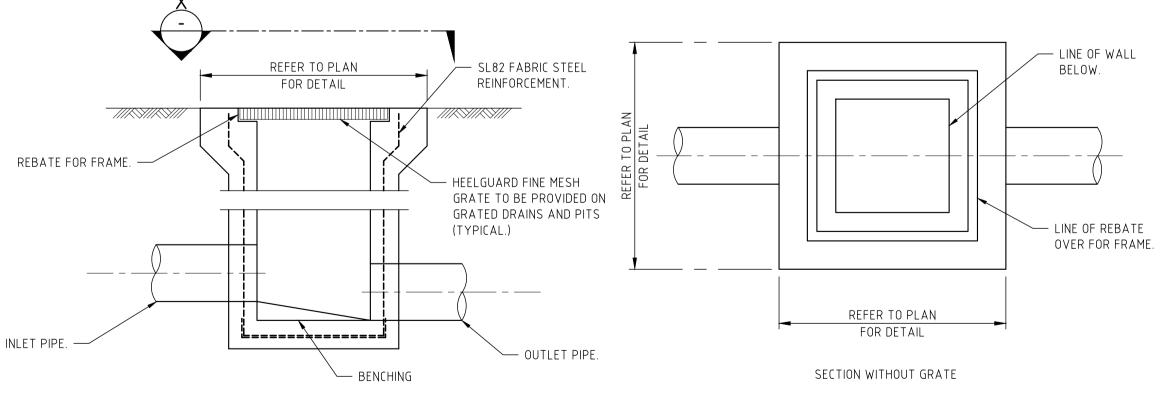
DOWNPIPE

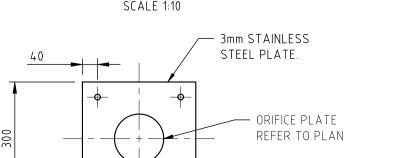
EXISTING DOWNPIPE

RAINWATER OUTLET

FIRST FLUSH DIVERTER

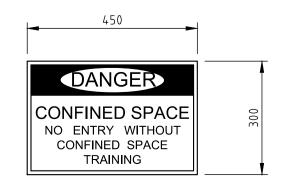






TYPICAL STORMWATER PIT DETAIL

– Ø10mm FIXING 'DYNABOLTS' BOLTS & 2-PART EPOXY. ORIFICE PLATE DETAIL

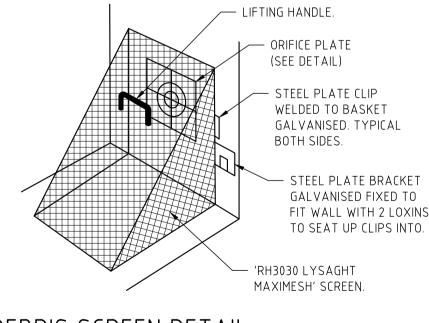


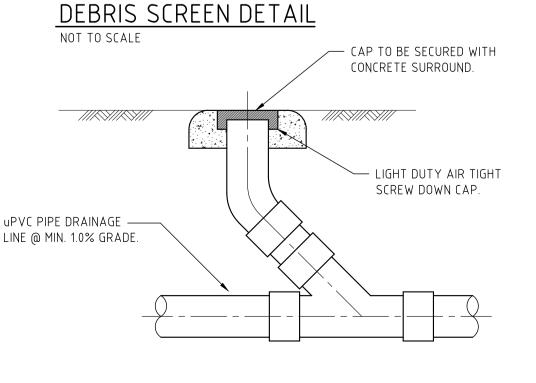
CONFINED SPACE SIGN DETAIL



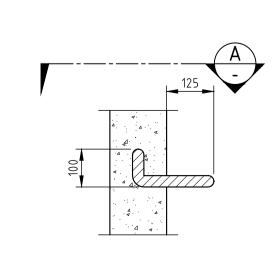
SECTION

SCALE 1:10

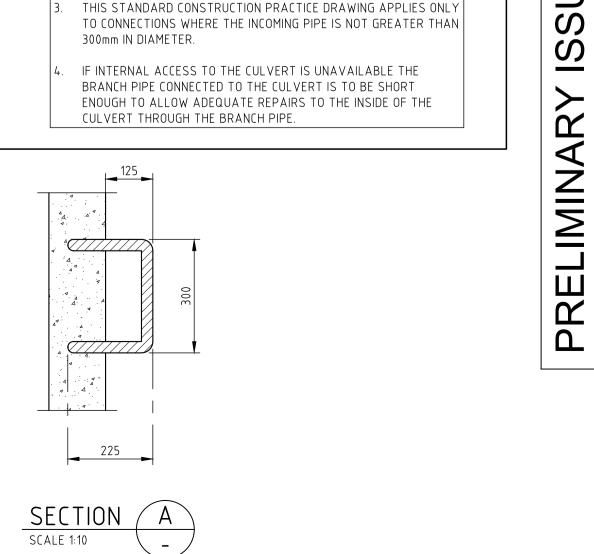








STEP IRONS DETAIL



PART COPY OF HUNTER WATER

N12-150 -

(TYPICAL)

SCALE 1:10

N12-150 -(TYPICAL)

APPROVAL TO CONNECT TO A HUNTER WATER CORPORATION STORMWATER ASSET IS CONDITIONAL ON THE RELEVANT LOCAL

COUNCIL REVIEWING AND APPROVING INTERNAL STORMWATER

DRAINAGE DESIGNS. SUCH APPROVAL MUST BE EVIDENCED TO

HWC SOTRMWATER SYSTEMS.

HUNTER WATER PRIOR TO GRANTING APPROVAL TO CONNECT TO

HYDRAULIC DISTURBANCE AND SMOOTH INTEGRATION OF FLOW IN

THE STORMWATER SYSTEM ARE TO BE CONSIDERED FOR ALL CONNECTIONS. IN GENERAL ALL CONNECTIONS SHOULD BE MADE AT

A MAXIMUM ENTRANCE OF 45° TO THE MAIN CULVERT FLOW.

S25 CONCRETE —

TYPICAL PIPE CONNECTIONS

TO STORMWATER CULVERTS

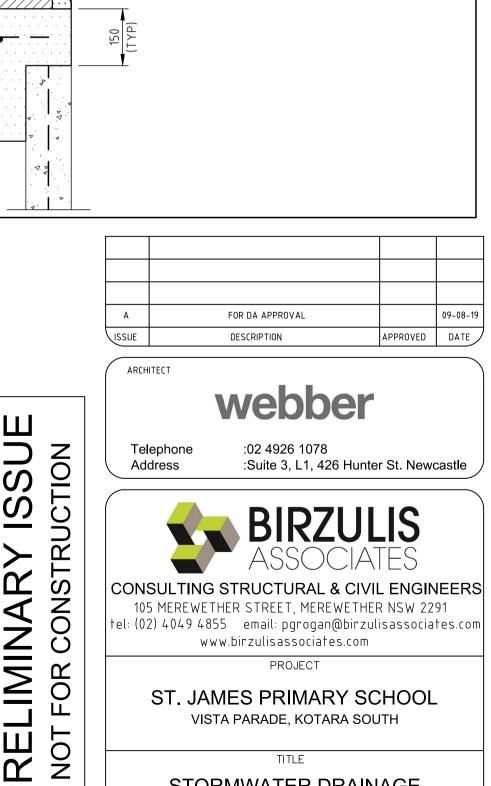
CORPORATION DETAIL

DRAWING: DCP-201

L PIPE-

L PIPE-

NOTES:



TITLE

STORMWATER DRAINAGE

DETAILS - SHEET 1

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VERIFIED

181019 SW.09

as noted @ A1

SL

DESIGN

ˈJUNE 2019

APPROVED

- BRANCH PIPE TO BE 50mm FROM INSIDE

CONCRETE BRANCH PIPES.

SURFACE OF WALL FOR STEEL-REINFORCED

BACKING BLOCK TO BE SIZED TO ENSURE

200mm MIN CONTACT SURFACE (TYPICAL)

CONSTRUCT BACKING BLOCK FOLLOWING PIPE

- SIDES OF CUT CONCRETE TO BE SCABBLED

- SCABBLED CONCRETE & PIPE BARREL TO BE

TO BE APPLIED TO ALL SURFACES TO BE IN

CONTACT WITH NEW CONCRETE IMMEDIATELY

- A COATING OF EPIREZ 633 EPOXY MORTAR BINDER

- SAWCUT ALL ROUND & REMOVE EXISTING CONCRETE (TYPICAL)

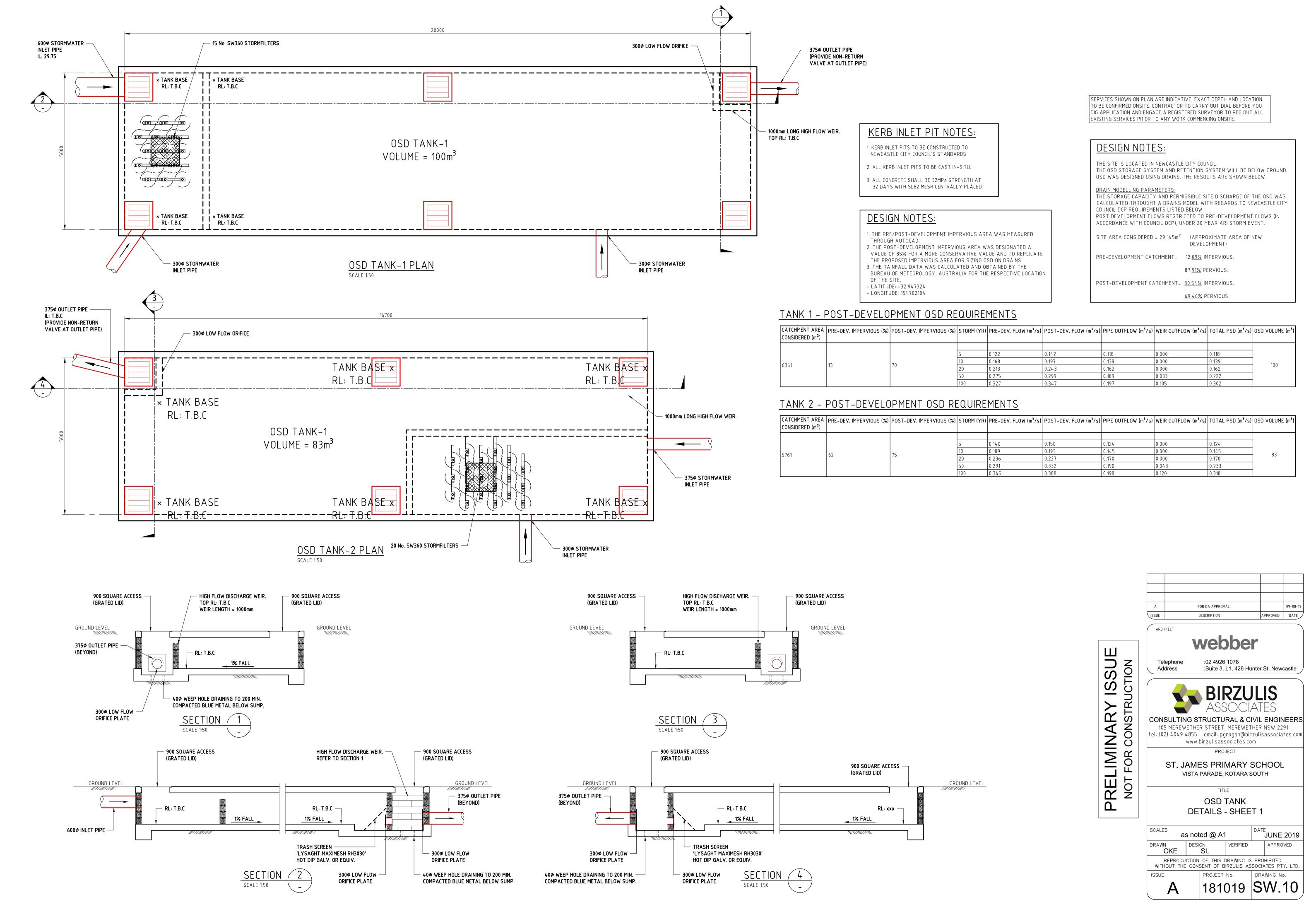
BRANCH PIPE TO BE LOCATED CLEAR OF JOINTS IN CULVERT

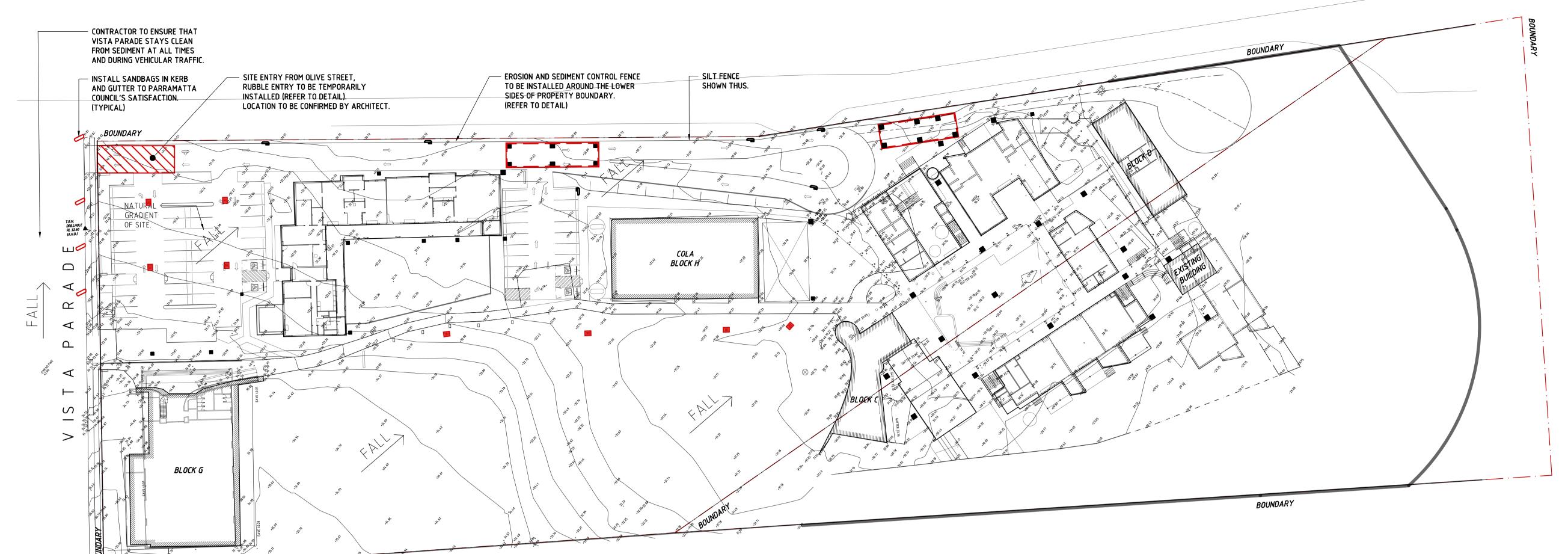
— EXISTING CULVERT WALL

INSTALLATION AS FOLLOWS:

FREE OF DUST AND GREASE

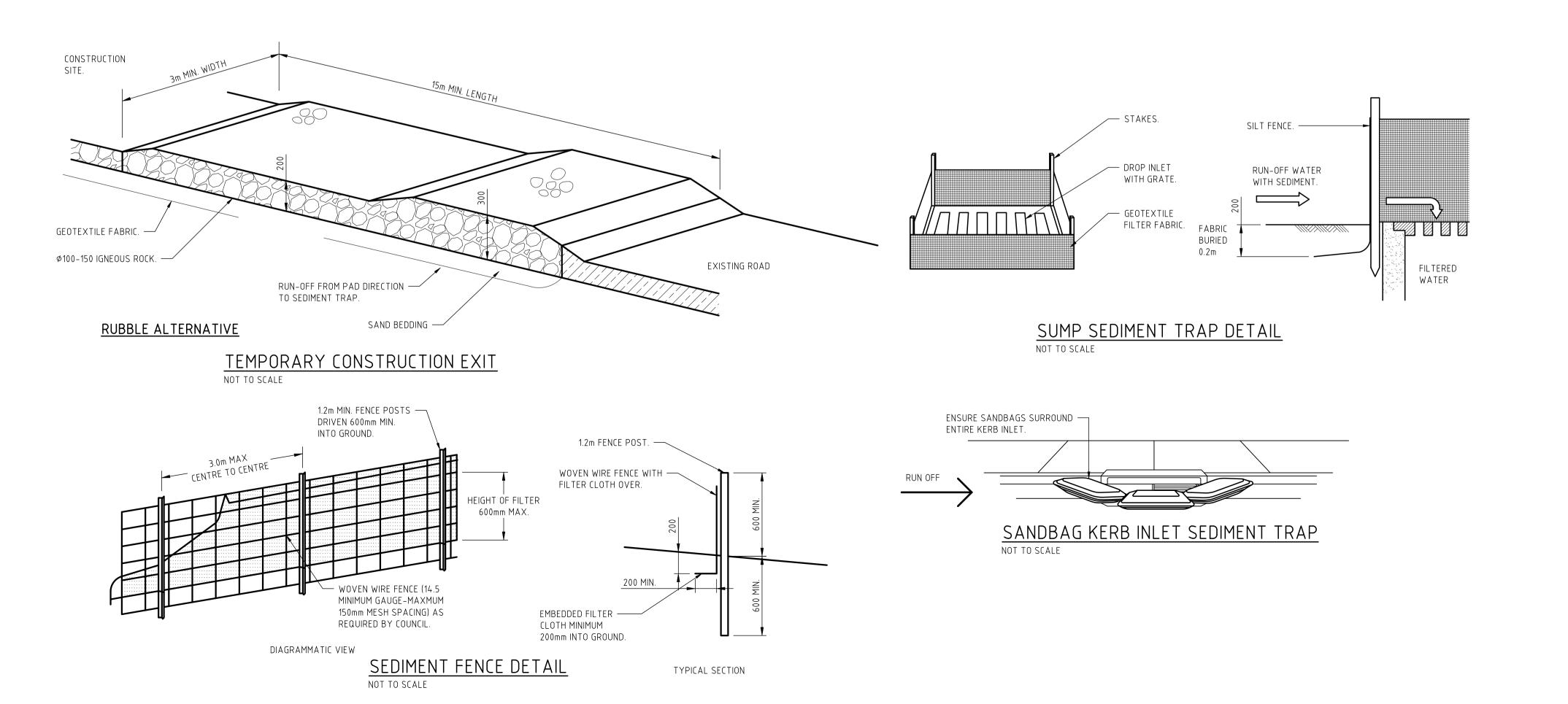
PRIOR TO CONCRETE PLACEMENT.





EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:500



EROSION & SEDIMENTATION CONTROL NOTES

. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING

SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.

2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED

MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC

BY SEDIMENT FENCING MATERIAL. B. NO PARKING OR STOCKPILING OF MATERIAL IS PERMITTED ON THE LOWER

SIDE OF THE SEDIMENT FENCE.

4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.

5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

GENERAL NOTES.

THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.

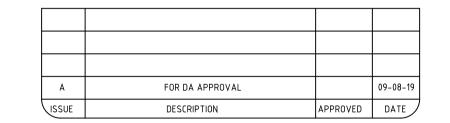
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY LATER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.

TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY THE LOCAL COUNCIL.



ARCHITECT

Address

ISSUE

RELIMINARY ISSU NOT FOR CONSTRUCTION

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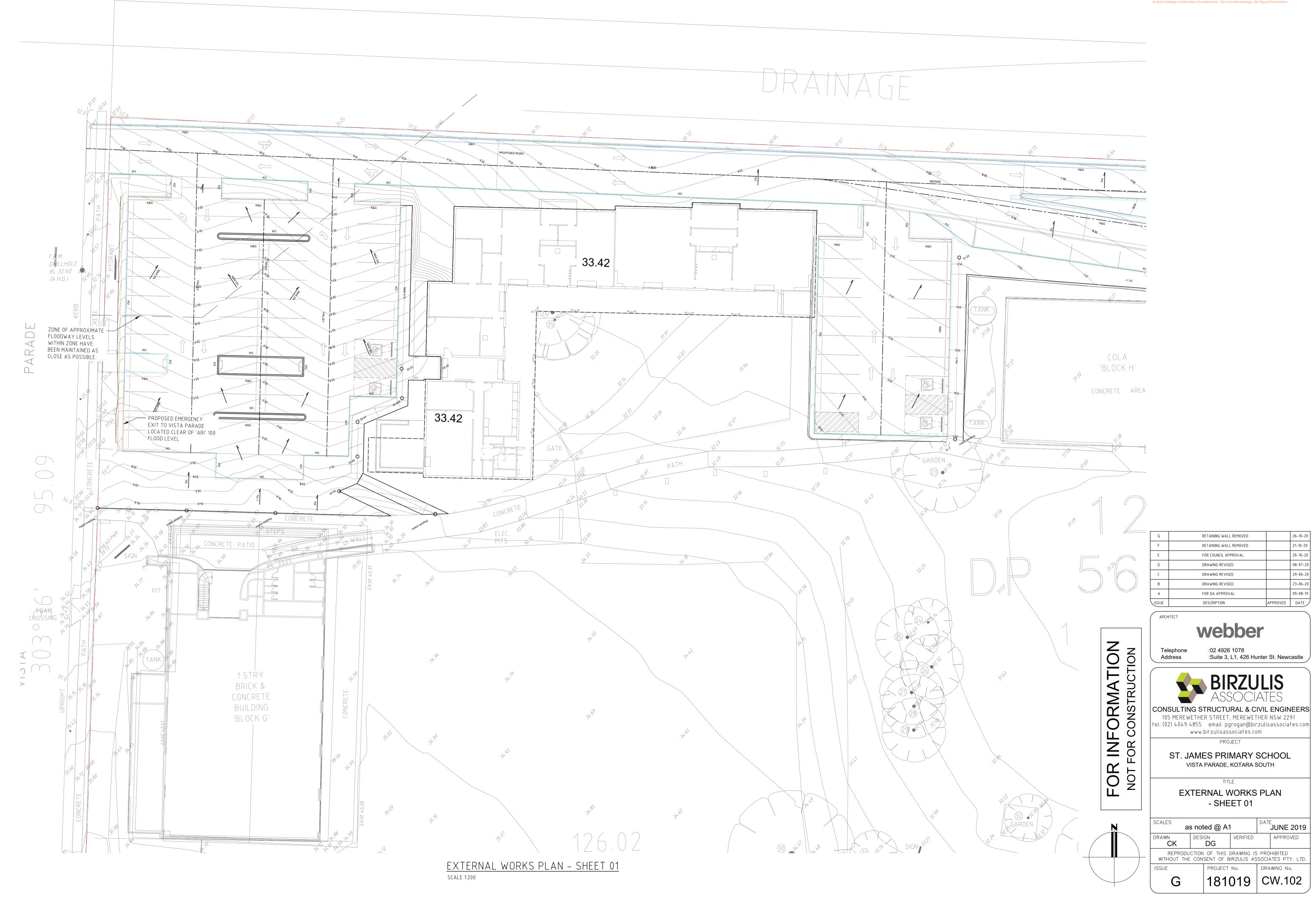
PROJECT

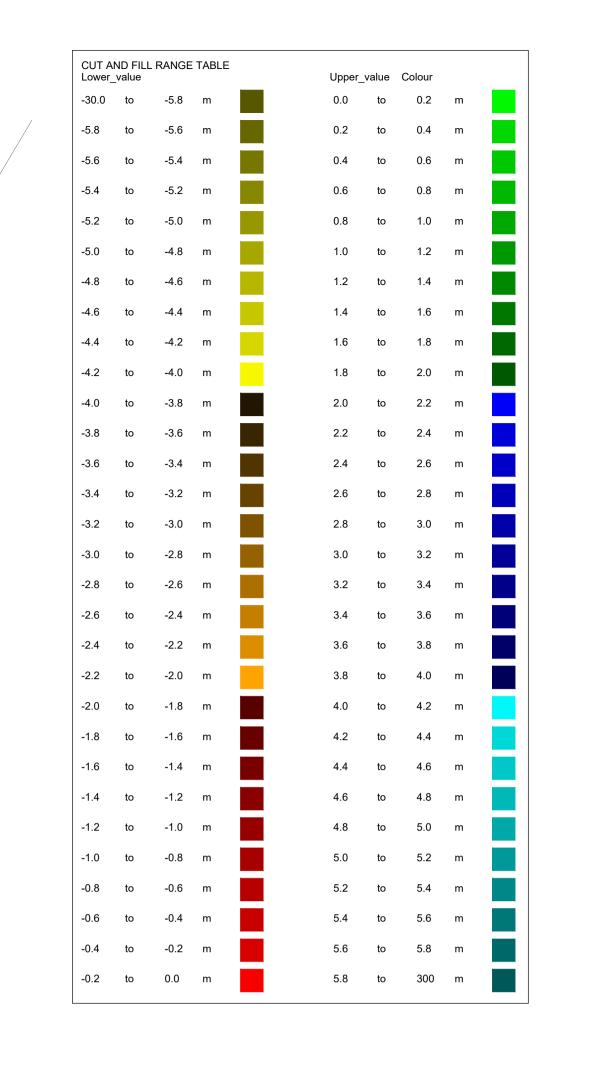
ST. JAMES PRIMARY SCHOOL VISTA PARADE, KOTARA SOUTH

TITLE

EROSION AND SEDIMENT CONTROL PLAN AND DETAILS

SCALES as	s noted @ A	1	DATE	- JUNE 2019
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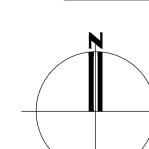
CUT AND FILL PLAN

SCALE 1:500

TOTAL CUT VOLUME	-427.215
TOTAL FILL VOLUME	1493.236
EXCESS OF FILL OVER CUT	1066.021

NOTE: VOLUMES ARE FROM EXISTING TO DESIGN LEVEL NO ALLOWANCE FOR THE REMOVAL OF TOPSOIL

FOR INFORMATION NOT FOR CONSTRUCTION



В	FOR COUNCIL APPROVAL		20-10-
А	FOR DA APPROVAL		09-08-
ISSUE	DESCRIPTION	APPROVED	DATE

webber

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PROJECT ST. JAMES PRIMARY SCHOOL

VISTA PARADE, KOTARA SOUTH

CUT AND FILL PLAN

TITLE

JUNE 2019 as noted @ A1 DRAWN CK DESIGN DG VERIFIED APPROVED REPRODUCTION OF THIS DRAWING IS PROHIBITED WITHOUT THE CONSENT OF BIRZULIS ASSOCIATES PTY. LTD.

PROJECT No. DRAWING No.

181019 CW.104

