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Login Name: Kshatri

PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL

- G1.

DESIGN HEREIN HAS BEEN PREPARED BY  
WSCE PTY LTD,  
LEVEL 20, 66 GOULBURN ST, SYDNEY NSW 2000.  
TEL:- (02) 9299 1312, FAX:- (02) 9290 1295.

2
- G2.

THE DRAWINGS HEREIN SHALL BE READ AS  
REQUIRED IN CONJUNCTION WITH ARCHITECT  
DRAWINGS BY:  
TERROR  
LEVEL 2, 79 MYRTLE ST  
CHIPPENDALE 2008  
TEL: (02) 9696 2198
- G3.

ALL DIMENSIONS IN MILLIMETRES UNO. REDUCED  
LEVELS AND CHAINAGES ARE IN METRES. DO NOT  
SCALE DRAWINGS. USE FIGURED DIMENSIONS.
- G4.

THE PROPOSED WORKS DETAILED HEREIN SHALL BE  
CONSTRUCTED TO THE REQUIREMENTS OF COUNCIL  
GENERALLY AS DETAILED HEREUNDER.
- G5.

ALL EXISTING SERVICES SHALL BE VERIFIED FOR  
DEPTH AND HORIZONTAL POSITION BY PHYSICAL  
MEANS PRIOR TO EXCAVATION. ANY DISCREPANCIES  
SHALL BE BROUGHT FORTHWITH TO THE PROJECT  
MANAGER'S ATTENTION.
- G6.

REFERENCE SHALL BE MADE TO THE CONSTRUCTION  
MANAGEMENT PLAN FOR ALL SITE WORKS DETAILED  
HEREIN.

STORMWATER & SUB-SOIL DRAINAGE  
MATERIALS:

- STW1.

PIPES AND FITTINGS FOR STORMWATER  
DRAINAGE SHALL BE AS FOLLOWS UNO ON THE  
DRAWINGS.  
A. SEWER GRADE uPVC (SN8) WITH SOLVENT WELDED  
JOINTS FOR BELOW GROUND DRAINAGE. UP TO 225mm.  
B. REINFORCED CONCRETE WITH RUBBER RINGS.  
CLASS 3, FOR PIPE DIA'S GREATER THAN 225mm OR  
WHERE REQUIRED BY AS3500 FOR EXCESSIVE DEPTH.  
C. INSTALL IN ACCORDANCE WITH AUSTRALIAN  
STANDARD AS3500 EXCEPT WHERE VARIED BY  
THE CONTRACT DOCUMENTS.
- STW2.

PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE  
SLOTTED POLYVINYL CHLORIDE (PVC) WITH SOLVENT  
WELDED JOINTS, MIN. 150mm DIAMETER.
- STW3.

IN GROUND DRAINAGE PIPEWORK SERVING DP'S  
SHALL BE MINIMUM 150mm DIA. UNO.
- STW4.

GRATED DRAINS SHALL BE 150mm NOM.  
A. 150mm NOM. WIDTH IN NON TRAFFICABLE AREAS.  
B. 225mm NOM. WIDTH IN TRAFFICABLE AREAS.
- STW5.

STORMWATER PITS ARE AS SHOWN & SPECIFIED ON  
THE PLANS. PRECAST TYPE ACCEPTABLE WITH STEP  
IRONS FOR DEPTH GREATER THAN 1200. BENCH ALL  
PITS MIN. 50mm & FORM SMOOTH TRANSITION FROM  
INLET TO OUTLET.
- STW6.

SELECT FILL SHALL BE MATERIAL OBTAINED FROM  
EXCAVATION OF THE PIPE TRENCH OR IMPORTED  
WITH A PARTICLE SIZE FOR ROCK NOT GREATER  
THAN 75mm OR FOR OTHER THAN ROCK NOT  
GREATER THAN 150mm.
- STW7.

IMPORTED FILL SHALL BE EITHER, AND GENERALLY  
CONSIST OF SINGLE SIZED AGGREGATE WITH  
PARTICLE SIZE NOT GREATER THAN 5mm WRAPPED  
ALL ROUND WITH GEOTEXTILE FILTER FABRIC OR  
APPROVED HIGH COMPACTION SAND OR APPROVED  
CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM  
3051 OR SIMILAR.
- STW8.

STORMWATER PITS AND GRATES TO CONFORM WITH  
STANDARD COUNCIL REQUIREMENTS, WHERE ON  
PUBLIC LAND. GRATES TO BE SUPPLIED IN CLASS  
SHOWN ON THE DRAWINGS.

INSTALLATION REQUIREMENTS:

- STW9.

PIPES SHALL BE TRUE TO GRADES SHOWN AND  
ALIGNED SO THAT THE CENTRES OF THE INLET PIPES  
INTERSECT WITH THE CENTRE OF THE OUTLET PIPE AT  
THE DOWNSTREAM FACE OF THE PIT.
- STW10.

MINIMUM GRADES FOR GRAVITY STORMWATER  
DRAINAGE SHALL CONFORM TO AS3500 PART3 AS  
FOLLOWS, UNO:  
1% FOR 100 AND 150 mm DIA.  
0.5% FOR 225 mm DIA  
0.5% FOR 300 mm DIA  
0.4% FOR 375 mm DIA
- STW11.

MINIMUM DEPTH OF COVER SHALL BE :-  
- 300mm IN PRIVATE PROPERTY (NON VEHICULAR  
TRAFFIC).  
- 450mm IN PUBLIC AREAS.  
- 600mm IN VEHICULAR TRAFFICABLE AREAS  
(FOOTWAY/ROADWAY)

- STW12.

BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED  
BEDDING FILL MATERIAL.
- STW13.

LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE  
MANUFACTURERS RECOMMENDATIONS AND  
AS 3725-1989 BURIED FLEXIBLE PIPELINES  
AS 2566-1998 LOADS ON BURIED FLEXIBLE PIPELINES  
AS 1597.2-1996 PRECAST REINFORCED CONCRETE BOX  
CULVERTS.  
AS 3500-1990 NATIONAL PLUMBING & DRAINAGE CODE.  
PART 2. SANITARY PLUMBING AND SANITARY DRAINAGE.  
SYDNEY WATER REQUIREMENTS.
- STW14.

ALLOW TO TEST ALL PIPES AND PITS TO  
MANUFACTURERS REQUIREMENTS.

CONCRETE WORKS

- C1.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN  
ACCORDANCE WITH AS3600, THE STANDARDS  
ASSOCIATION AUSTRALIA, STANDARDS CITED IN AS3600,  
THE DRAWINGS AND THE SPECIFICATION.
- C2.

ALL CONCRETE SHALL BE 80mm NOMINAL SLUMP, 20mm  
MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY  
ASH. UNLESS OTHERWISE APPROVED. ALL CONCRETE  
WORK IN CONTACT WITH SEWER TO HAVE TYPE SL  
PORTLAND CEMENT, OTHERWISE TYPE A CEMENT FOR  
BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF 600  
MICROSTRAIN, A MINIMUM CEMENT CONTENT 350kg/m3  
AND MAXIMUM WATER:CEMENT RATIO OF 0.40.
- C3.

STRENGTH GRADE OF CONCRETE SHALL BE : 25 MPa  
(KERBS, EDGE STRIPS & CONCRETE ENCASEMENT) AND  
32 MPa ELSEWHERE.
- C4.

CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED  
AND USED ONLY WHERE SHOWN OR APPROVED.  
GENERALLY FOR HAND PLACED KERB & GUTTER 6mm  
THICK APPROVED BITUMINOUS MASTIC JOINTING  
MATERIAL SHALL BE PROVIDED AT INTERVALS NOT  
EXCEEDING 6m. FOR MACHINE PLACED KERB & GUTTER  
6mm THICK APPROVED BITUMINOUS MASTIC JOINTING  
MATERIAL SHALL BE PROVIDED AT INTERVALS NOT  
EXCEEDING 12m & GUILLOTINED DUMMY GROOVED  
JOINTS, 25mm IN DEPTH, SHALL BE FORMED EVERY 3m  
OF GUTTER. JOINTS ARE ALSO REQUIRED AT EACH END  
OF GUTTER CROSSING AND GULLY PITS. JOINTS SHALL  
BE SET VERTICAL AND SQUARE TO THE KERB.
- C5.

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY  
AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- C6.

ELDING OR SPLICES IN REINFORCEMENT SHALL BE USED  
ONLY IN POSITIONS APPROVED BY THE ENGINEER.
- C7.

CONCRETE CURING SHALL BE IN ACCORDANCE WITH  
AS3600. CURING SHALL BE COMMENCED WITHIN TWO  
HOURS OF FINISHING OPERATIONS AND SHALL BE  
CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN  
APPROVED PROPRIETARY COMPOUND OR BY KEEPING  
CONTINUOUSLY WET.
- C8.

FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN  
ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE  
STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.
- C9.

FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH  
FIG.13.2.4 OF AS3600.
- C10.

HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE  
WITH AS3600 UNO.
- C11.

ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET'  
BY 'RAMSET' WITH THE GLASS CAPSULE SYSTEM  
INSTALLED IN STRICT ACCORDANCE WITH  
MANUFACTURERS INSTRUCTIONS OR HILTI HVJ  
ADHESIVE ANCHOR WITH FOIL CAPSULE SYSTEM  
INSTALLED IN STRICT ACCORDANCE WITH  
MANUFACTURERS INSTRUCTION.
- C12.

ALL CHEMICAL ANCHORS SHALL BE HOT DIPPED  
GALVANIZED AND BE MIN M16 DIA. U.N.O.

GENERAL EARTHWORKS, SITEWORKS & FILLING:  
FILLING:

- SGE1.

THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH  
TBD GEOTECHNICAL INVESTIGATION REPORT,  
DATED TBD.
- SGE2.

THE RECOMMENDATIONS CONTAINED IN THE GEOTECH  
REPORT SHALL OVERRIDE THE CLAUSES PRESENTED  
HEREIN.
- SGE3.

STRIP ALL TOPSOIL AND UNDERLYING FILL AND  
STOCKPILE TOPSOIL FOR LATER REUSE FOR  
LANDSCAPING PURPOSES.
- SGE4.

NEW FILL REQUIRED TO REINSTATE CUT LEVELS TO  
PROPOSED BENCHING LEVELS SHALL BE SOURCED  
FROM OTHER PARTS OF THE EXCAVATION AS SELECT  
FILL OR IMPORTED FILL AS SPECIFIED BELOW IN SGE 5  
AND SGE 6.

- SGE5.

SELECT FILL SHALL CONSIST OF LOCALLY DERIVED OR  
CUT NATURAL CLAYS.
- SGE6.

IMPORTED FILL SHALL CONSIST OF RIPPED SANDSTONE  
OR SHALE OR SIMILAR MATERIAL WITH MAXIMUM  
PARTICLE SIZE NOT GREATER THAN 120mm AND A  
MOISTURE CONTENT WITHIN 2-3% OF STANDARD  
OPTIMUM.
- SGE7.

ALL FILL (COHESIVE SOIL) SHALL BE PLACED IN LAYERS  
OF 200mm MAXIMUM THICKNESS, COMPACTED BY  
MACHINE ROLLING TO ACHIEVE A DRY DENSITY RATIO  
OF NOT LESS THAN 98% STANDARD MAXIMUM AT A  
CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF  
STANDARD OPTIMUM.
- SGE8.

IN AREAS WHERE HIGH IMPACT ROLLING IS USED TEST  
EACH FINAL LAYER OF NOT GREATER THAN 300mm TO  
400mm TO ACHIEVE A DRY DENSITY SGE8. RATIO OF NOT  
LESS THAN 98% STANDARD MAXIMUM AT A  
CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF  
STANDARD OPTIMUM.
- EXCAVATION BATTERS:

SGE9.

ALL TEMPORARY BATTERS CUT IN CLAY SUBSTRATE  
SHALL BE 1 HORIZ : 1 VERT. ALL LONG TERM EXPOSED  
BATTERS CUT IN CLAY SUBSTRATE SHALL BE 2 HORIZ : 1  
VERT. ALL DETENTION BASIN BATTERS IN CLAY  
SUBSTRATE SHALL BE 3 HORIZ : 1 VERT. ALL DETENTION  
BASIN BATTERS IN ROCK SUBSTRATE SHALL BE NEAR  
VERTICAL.
- SGE10.

GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT  
LEAST LEVEL 1 CONTROL OF FILL COMPACTION  
STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS
- FOR GENERAL FILL OR CUT AREAS OVER THE AREA  
PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN  
AREA NOT GREATER THAN 50m<sup>2</sup>
- FOR GENERAL FILL AREAS IN CONCENTRATED AREAS  
ADJACENT TO AND BEHIND THE STRUCTURE AND  
ADJACENT TO AND BEHIND RETAINING WALLS  
PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN  
AREA NOT GREATER THAN 50m<sup>2</sup>
- SGE11.

SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN  
SMITH CONSULTING ENGINEERS FOR REVIEW PRIOR TO  
CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

EARTH WORKS FOR SERVICES

- E1.

EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL  
FOR INSPECTION WITH REGARD TO RE-USE FOR TRENCH  
BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM  
SITE.
- E2.

BEDDING MATERIAL SHALL CONSIST OF IMPORTED FILL.  
ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN  
O.T.R. AND 200mm IN ROCK.
- E3.

EMBED ALL PIPES WITH IMPORTED FILL. PROVIDE  
200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE  
PIPE CROWN.
- E4.

TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE  
UNDERSIDE OF THE ROAD PAVEMENT OR FOOTWAY FILL  
MATERIAL SHALL BE AS FOLLOWS :
- UNDER ROADWAY

TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED  
FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE  
COMPACTION SAND OR APPROVED CRUSHED ROAD  
GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.

OTHER THAN ROADWAY

- TRENCH FILL MATERIAL EXCAVATED SHALL CONSIST OF  
SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT  
CONTAIN MORE THAN 20% OF STONES OF SIZE  
BETWEEN 75mm & 150mm AND NONE LARGER THAN  
150mm. PRIOR TO THE USE OF THE EXCAVATED  
MATERIAL IT SHALL BE INSPECTED AND APPROVED BY  
THE CONSULTANT.
- E5.

COMPACT BEDDING, EMBEDMENT AND TRENCH FILL  
MATERIALS AS FOLLOWS:

- EMBEDMENT:-

FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOILS)  
EG. COARSE AGGREGATE FILL, HIGH GRADE  
COMPACTION SAND, THE DENSITY INDEX (ID) SHALL BE  
NOT LESS THAN 70%.
- TRENCH FILL:-

FOR GRANULAR MATERIAL (NON-COHESIVE SOILS), THE  
DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.
- FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS),  
THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN  
95%.

- E6.

MEASURE OF COMPACTION:-  
THE DEGREE OF COMPACTION SHALL BE MEASURED BY  
ONE OF THE FOLLOWING PARAMETERS :-  
  
GRANULAR FILL (NON-COHESIVE SOILS). THE DENSITY  
INDEX (ID) DETERMINED IN ACCORDANCE WITH AS  
1289.E6.1 BASED ON THE MAXIMUM AND MINIMUM DRY  
DENSITIES IN ACCORDANCE WITH AS 1289.E5.1 AND THE  
FIELD DRY DENSITY IN ACCORDANCE WITH AS 1289.5.3.2.  
AS 1289.E3.5 OR AS 1289.E8.1.  
  
NON-GRANULAR FILL (COHESIVE SOILS). THE DRY  
DENSITY RATION (RD) DETERMINED IN ACCORDANCE  
WITH AS 1289.5.4.1 BASED ON THE FIELD DRY DENSITY IN  
ACCORDANCE WITH AS 1289.5.3.2 AND THE MAXIMUM  
DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1
- E7.

GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT  
LEAST LEVEL 1 CONTROL OF FILL COMPACTION  
STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS:  
  
- TEST EACH 300mm LAYER ABOVE PIPE CROWN.  
- TEST BASE & SUB-BASE LAYERS WHERE APPLICABLE.  
- TESTS SHALL BE REQUIRED AT EACH 50m CENTRES  
WHERE THE LENGTH OF TRENCH IS WITHIN THE 50m  
REQUIREMENT.
- E8.

SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN  
CONSULTING ENGINEERS FOR REVIEW PRIOR TO  
CONTINUATION WITH SUBSEQUENT SECTION OF WORK.
- RESTORATION:

RES1.

RESTORE ALL TRAFFIC AREAS TO PRE EXISTING  
CONDITION.

RES2.

FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS  
RESTORE DISTURBED SURFACES TO PRE-EXISTING  
CONDITIONS AND COMPACT AS SPECIFIED.

RES3.

RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL  
STANDARDS
- ROAD WORKS, DRIVEWAYS & CARPARKS
- R1.

ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE  
CONDITIONS & PAVEMENT THICKNESS TO BE VERIFIED  
BY GEOTECHNICAL CONSULTANT AFTER INSPECTION OF  
PRELIMINARY BOXING.

R2.

ALLOW FOR ANY SUB-GRADE REPLACEMENT WORK TO  
BE DETERMINED AS REQUIRED BY GEOTECHNICAL  
CONSULTANT AT THE TIME OF PAVEMENT  
CONSTRUCTION.

R3.

MINIMUM DRY DENSITY RATIOS (AS 1289.3.4.1-1993) TO  
BE:  
BASE COURSE: 98% MODIFIED  
SUB-BASE: 95% MODIFIED  
SUB-GRADE: 100% STANDARD  
SUB-GRADE REPLACEMENT: 100% STANDARD

R4.

PAVEMENT MATERIALS TO COMPLY WITH RMS  
SPECIFICATION No. 3051 OR SIMILAR AS APPROVED BY  
GEOTECHNICAL CONSULTANT.

R5.

PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING  
250mm THICK BEING BASECOURSE, SUB-BASE &  
SUB-GRADE OVER AN AREA NOT GREATER THAN 500m<sup>2</sup>

R6.

SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN  
CONSULTING ENGINEERS FOR REVIEW PRIOR TO  
CONTINUATION WITH SUBSEQUENT SECTION OF WORK.
- APPROVALS
- A1.

THE AS CONSTRUCTED WORKS SHALL BE INSPECTED  
BY DESIGN CONSULTANT. MINIMUM 48 HOURS NOTICE  
SHALL APPLY TO ALL INSPECTIONS.

A2.

THE DESIGN PLANS HEREIN ARE SUBJECT TO LOCAL  
COUNCIL APPROVAL PRIOR TO CONSTRUCTION, OBTAIN  
EXPRESS (WRITTEN) ADVICE TO PROCEED FROM  
PROJECT MANAGER PRIOR TO COMMENCEMENT.

A3.

SUBMIT WORK-AS-EXECUTED DRAWINGS IN CIVILCAD OR  
DXF DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY  
ALL CONSTRUCTION WORKS SHOWN HEREON.

A4.

CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS  
BEEN BUILT IN ACCORDANCE WITH THE APPROVED  
PLANS ISSUED FOR CONSTRUCTION.
- SERVICES UNDER ROAD SURFACES
- S1.

ALL OTHER SERVICES INCLUDING BUT NOT LIMITED TO  
WATER, HYDRANT, GAS, SEWER, ELECTRICAL AND  
COMMUNICATIONS CONDUITS OR CABLES SHALL BE LAID  
WITH MINIMUM 600mm U.N.O. COVER BELOW PROPOSED  
ROAD SURFACE OR APPROVED OTHER MEANS TO  
PROTECT DURING CONSTRUCTION.
- ROAD SIGNS & LINE MARKING
- RS1.

ALL SIGNS AND LINEMARKING SHALL BE TO ROADS &  
TRAFFIC AUTHORITY STANDARDS AND SPECIFICATIONS  
AND AS 1742, MANUAL OF UNIFORM TRAFFIC CONTROL  
DEVICES

RS2.

ALL LINEMARKING SHALL BE AUGMENTED BY  
RETROREFLECTIVE RAISED PAVEMENT MARKERS  
(RRPMs) AND ALL SHALL BE TO AS 1742.2 - 1994 AND AS  
1742.2 /AMDT 1/1997-10-05

RS3.

ALL ROAD SIGNS AND POSTS SHALL BE TO AS 1742.2 -  
1994 AND AS 1742.2 /AMDT 1/1997-10-05
- PROTECTION OF FLORA - REFER SPECIFICATION
1.

ANY TRENCHES WITHIN 3m OF TREES SHALL BE HAND  
DUG TO AVOID DAMAGE TO TREE ROOTS.

2.

IF IT IS CONSIDERED NECESSARY TO PERFORM ANY  
WORK ON TREES, INCLUDING TRIMMING, LOPPING, ROOT  
CUTTING, REPAIR AND REMOVAL, APPLICATION IN  
WRITING SHALL BE MADE BY THE CONTRACTOR TO THE  
SUPERINTENDENT. ANY WORK PERMITTED TO BE DONE  
ON TREES TO BE RETAINED SHALL BE PERFORMED IN  
ACCORDANCE WITH THE ARBORISTS REPORT.

3.

MATURE TREES AND SHRUBS ARE TO BE REMOVED IN  
ACCORDANCE WITH THE ARBORISTS REPORT.
- AUTHORITY STANDARDS
- LGA 1.

THE DRAWINGS HEREIN SHALL BE READ IN  
CONJUNCTION WITH ---- COUNCIL STANDARDS &  
SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL  
DETAILS SHOWN ON THE DRAWINGS.
- TRAFFIC NOTE:
1.

A TRAFFIC CONTROL PLAN IS TO BE PREPARED BY AN  
ACCREDITED RMS 1. TRAFFIC CONTROL PLAN IS TO BE  
SUBMITTED TO COUNCIL. THIS TRAFFIC PLAN IS TO BE  
CERTIFIED BY AND IMPLEMENTED TO THE SATISFACTION  
OF AN ACCREDITED RMS TRAFFIC CONTROLLER
- PRIOR TO COMMENCEMENT OF WORK
2.

ALL TRAFFIC CONTROL WORKS SHALL ONLY BE CARRIED  
OUT BY 2. ACCREDITED RMS TRAFFIC CONTROLLERS.
- CLOSED CIRCUIT COLOUR TV (CCTV)
- CCTV 1.

UNDERTAKE A CCTV INSPECTION OF ALL THE  
COMPLETED DRAINAGE IN ACCORDANCE WITH THE  
GUIDELINES OF THE AUSTRALIAN CONDUIT  
CONDITION EVALUATION MANUAL (ACCEM)

CCTV 2.

APPLY THE FOLLOWING REQUIREMENTS TO THE CCTV  
INSPECTION:-  
A. USE DATA CAPTURE SOFTWARE APPROVED BY  
SYDNEY WATER  
  
B. USE CERTIFIED CCTV OPERATORS C. THE CCTV  
FOOTAGE SHALL BE OF QUALITY TO ALLOW  
ACCURATE ASSESSMENT OF THE INTERNAL  
CONDITION OF THE PIPE. FURNISH TO THE DESIGN  
CONSULTANT:-

CCTV 3.

A. VIDEOS IN MPG FORMAT  
B. CCTV REPORT AND SURVEY DATA IN PDF FORMAT
- PROTECTION OF TREES
- T1.

WHERE STORMWATER DRAINAGE IS LAID WITHIN THE  
VICINITY OF TREES/ CANOPIES OF TREES, WORK IS TO  
BE COMPLETED TO THE PROJECT ARBORISTS  
REQUIREMENTS AND SPECIFICATIONS.
- | REVISION | AMENDMENT                             | DATE     | REVISION | AMENDMENT | DATE |
|----------|---------------------------------------|----------|----------|-----------|------|
| 1        | ISSUE FOR DEVELOPMENT APPLICATION     | 14/07/23 |          |           |      |
| 2        | RE-ISSUED FOR DEVELOPMENT APPLICATION | 24/05/24 |          |           |      |
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| CLIENT  |  | PREPARED BY  |  | TITLE               |  |
| <div><div>Shoalhaven</div><div>City Council</div></div> |  | <div><div>WSce Pty Ltd</div><div>ACN 668 655 141</div><div>ABN 75 668 655 141</div><div>info@wsce.com.au</div><div>wsce.com.au</div></div> <div><div><div>Geotechnical Engineering</div><div>Geotechnical Engineering</div><div>Geotechnical Engineering</div></div><div><div>Driven by excellence,</div><div>built on experience.</div></div></div> |  | SPECIFICATION NOTES |  |
| PROJECT   |  | JOB No.  |  | ISSUE               |  |
| RESOURCE RECOVERY<br>LEARNING CENTRE -<br>WEST NOWRA    |  | 7672000  |  | 2                   |  |
| DATE  |  | STATUS   |  |                     |  |
| JULY 2023   |  | DEVELOPMENT APPLICATION  |  |                     |  |