CHILDREN'S VILLAGE - CHILDCARE CENTRE & OOSHC

S4.56 SUBMISSION



DRAWING SCHEDULE DRG No. DRAWING TITLE REV. C1.00 Arrangement and Overview Plans C1.01 **Cover Sheet Specification Notes** C1.02 C2.00 Sediment and Erosion Control C2.01 Sediment and Erosion Control Plan C2.02 Sediment and Erosion Control Details C6.00 Stormwater Drainage Stormwater Layout Plan C6.01 Stormwater Catchment Plan C6.02 Roof Drainage Plan C6.03 3 C6.04 Roof Catchment Plan 3 C6.05 OSD Tank Plan C6.06 **OSD Tank Sections** 3 Stormwater Drainage Details C6.07 3 Stormwater360 Treatment Device Typical Details C6.08

LOCALITY AERIAL

NOT TO SCALE

LODESTONE HQ

MOSTYN COPPER GROUP

LIQUID DESIGN

Warren Smith Consulting Engineers

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| TITLE | | | | |
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| | COVER | R SHEE | Т | |
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| DATE NOVEMBER 2021 | STATUS | 4 56 SUBI | MISSION | |

THE DRAWINGS HEREIN SHALL BE READ AS REQUIRED IN CONJUNCTION WITH ARCHITECT DRAWINGS BY: LIQUID DESIGN SUITE 5.17, 55 MILLER STREET. PYRMONT, SYDNEY, NSW 2000 TEL: (02) 7901 1215

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

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

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.

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

STORMWATER & SUB-SOIL DRAINAGE MATERIALS:

PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS UNO ON THE DRAWINGS:

SEWER GRADE uPVC (SN8) WITH SOLVENT WELDED JOINTS FOR BELOW GROUND DRAINAGE UP TO 225mm. FIBRE REINFORCED CEMENT WITH RUBBER RINGS, CLASS 3, FOR PIPE DIA'S GREATER THAN 225mm. UNO. REINFORCED CONCRETE WHERE REQUIRED BY AS

3500 FOR EXCESSIVE DEPTH. INSTALL IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500 EXCEPT WHERE VARIED BY

THE CONTRACT DOCUMENTS.

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

IN GROUND DRAINAGE PIPEWORK SERVING DP's SHALL BE MINIMUM 150mm DIA, UNO.

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

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.

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.

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.

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 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.

STW14. ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS.

SYDNEY WATER REQUIREMENTS.

CONCRETE WORKS

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

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.

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

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.

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

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

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.

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

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

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

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

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

GENERAL EARTHWORKS. SITEWORKS & FILLING: FILLING:

THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH GEOTECHNICAL REPORTS FOR THE SITE.

THE RECOMMENDATIONS CONTAINED IN THE GEOTECH REPORT SHALL OVERRIDE THE CLAUSES PRESENTED

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

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.

REVISION

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

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.

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.

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 500 m²

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 50m²

SGE11. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

EARTH WORKS FOR SERVICES

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

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

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

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.

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

DATE CLIENT

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

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.

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

RESTORATION:

RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION.

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

RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL **STANDARDS**

ROAD WORKS. DRIVEWAYS & CARPARKS

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

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

MINIMUM DRY DENSITY RATIOS (AS 1289 3.4.1-1993) TO

BASE COURSE: 98% MODIFIED SUB-BASE: 95% MODIFIED SUB-GRADE: 100% STANDARD SUB-GRADE REPLACEMENT: 100% STANDARD

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

PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING 250mm THICK BEING BASECOURSE, SUB-BASE & SUB-GRADE OVER AN AREA NOT GREATER THAN 500m²

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

APPROVALS

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

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

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

CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS ISSUED FOR CONSTRUCTION.

SERVICES UNDER ROAD SURFACES

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

ALL SIGNS AND LINEMARKING SHALL BE TO ROADS & TRAFFIC AUTHORITY STANDARDS AND SPECIFICATIONS

PREPARED BY

AND AS.1742. MANUAL OF UNIFORM TRAFFIC CONTROL **DEVICES**

ALL LINEMARKING SHALL BE AUGMENTED BY RETROREFLECTIVE RAISED PAVEMENT MARKERS 1742 2 /AMDT 1/1997-10-05

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

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

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.

ACCORDANCE WITH THE ARBORISTS REPORT.

AUTHORITY STANDARDS

CONJUNCTION WITH WARRINGAH CITY COUNCIL STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.

TRAFFIC NOTE:

A TRAFFIC CONTROL PLAN IS TO BE PREPARED BY AN ACCREDITED RMS 1. TRAFFIC CONTROLLER AND 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

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 Z Σ

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DEVELOPMENT APPLICATION DEVELOPMENT APPLICATION S4.56 SUBMISSION

AMENDMENT

01/05/18 12/11/21 CHILDREN'S VILLAGE -

DATE REVISION AMENDMENT

20/04/18

LODESTONE HQ

CHILDCARE CENTRE &

OOSHC

Warre



SPECIFICATION NOTES

R.X. AS SHOWN I.K. J.G. 6118000 **NOVEMBER 2021**

& LEVELS BEFORE COMMENCEMENT OF ANY WORK.

DO NOT SCALE FROM

DRAWINGS, CHECK &

VERIFY ALL DIMENSIONS

THIS DRAWING IS NOT TO BE COPIED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM WARREN SMITH CONSULTING ENGINEERS.

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

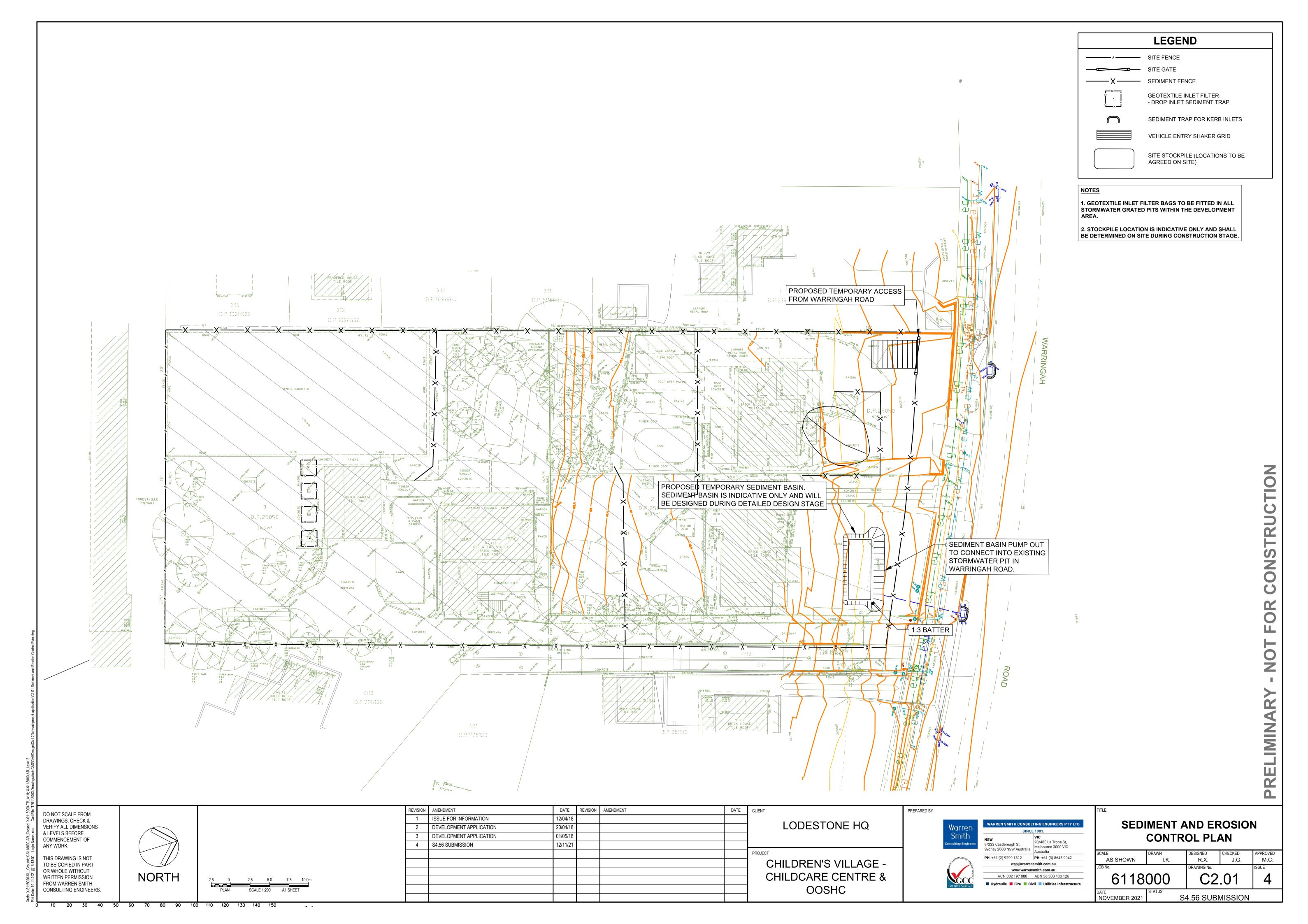
S4.56 SUBMISSION

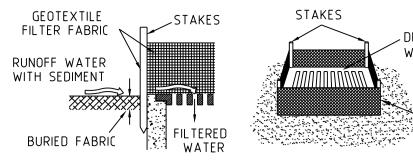
(RRPMs) AND ALL SHALL BE TO AS 1742.2 - 1994 AND AS

IF IT IS CONSIDERED NECESSARY TO PERFORM ANY

MATURE TREES AND SHRUBS ARE TO BE REMOVED IN

LGA 1. THE DRAWINGS HEREIN SHALL BE READ IN





DROP INLET WITH GRATE FILTER FABRIC

DISTURBED AREA!

DIRECTION

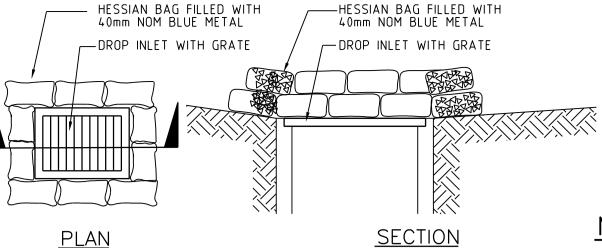
OF FLOW

1.5m STAR PICKETS

AT 3m CENTERS MAX

GEOTEXTILE

GEOTEXTILE FILTER FABRIC DROP INLET



HESSIAN BAG DROP INLET

SEDIMENT TRAP

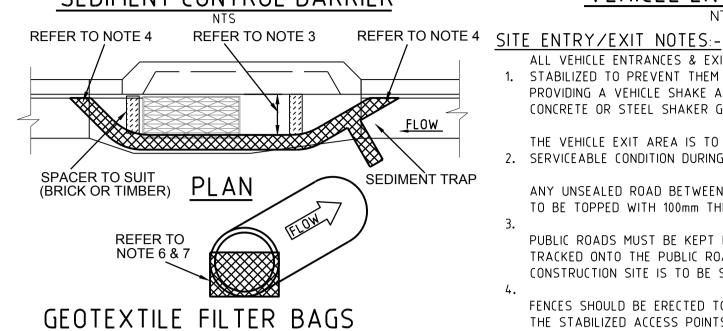
XCAVATE AROUND DROP

INLET TO PROVIDE

SETTLEMENT POND

GRATED INLET NEW/EXISTING GRATED KERB ENTRY PI SEDIMENT CONTROL BARRIER

ROAD SURFACE



BLUE METAL FILLED

-HESSIAN SAND BAGS OR

∖GEOTEXTILE FILTER BAGS

GUTTER LIP

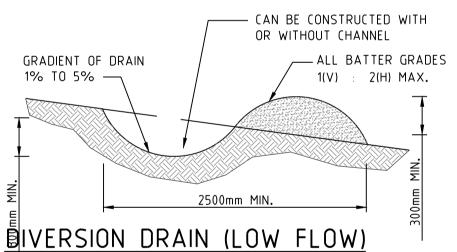
KERB ENTRY LINTEL

DIRECTION OF

STORMWATER FLOW

SEDIMENT BARRIER FOR PITS & PIPES, NOTES:-

- 1. SLEEVES ARE TO BE MADE FROM GEOTEXTILE FABRIC LONGER THEN THE LENGTH OF THE INLET PIT.
- 2. FILL SLEEVE WITH 5 OR 10mm CLEAN GRAVEL.
- 3. PLACE THE SLEEVE AT THE OPENING OF THE KERB INLET LEAVING A 100mm GAP TO ACT AS AN EMERGENCY OVERFLOW.
- SLEEVE MUST BE PLACED AGAINST THE KERB TO PREVENT BYPASS.
- FIT SLEEVE TO ALL INLETS DOWNSTREAM OF THE WORKS.
- 5. FOR DRAINAGE WORKS FIT GEOTEXTILE FABRIC OR GEO BAGS TO UPSTREAM FACE OF ALL OPEN PIPES.
- MAINTAIN AN OPENING AT THE TOP OF THE PIPE OF 1/3 OF THE PIPE DIAMETER.
- THE FILTERS ARE TO BE CLEANED AND MAINTAINED DAILY.
- 8. ALL CARE SHOULD BE TAKEN TO MINIMIZE SEDIMENT REACHING THE
- STORMWATER SYSTEM BY MINIMIZING EXCAVATION WORKS AND PREVENTING EXCESS WATER FLOW THROUGH WORKS.



DIVERSION DRAIN NOTES:-

1. CONSTRUCT WITH GRADIENT OF 1 PER CENT TO 5 PER CENT.

AVOID REMOVING TREES AND SHRUBS IF POSSIBLE.

- DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS 3. SECTION NOT V-SHAPED.
- EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO 4. PREVENT FAILURE.
- 5. BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.
- ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR.
- DISCHARGE RUN OFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILIZED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE 3.

7. SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.

COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.

PREPARED BY

8. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER

IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

STABILIZED CONSTRUCTION SITE VEHICLE ENTRY/EXIT

GEOTEXTILE

RUNOFF FROM PAD

DIRECTED TO SEDIMENT TRAP

CONSTRUCTION SITE

ALL VEHICLE ENTRANCES & EXITS TO THE CONSTRUCTION SITE MUST BE 1. STABILIZED TO PREVENT THEM BECOMING A SOURCE OF SEDIMENT, BY PROVIDING A VEHICLE SHAKE AREA. THIS MAY CONSIST OF A TIMBER, CONCRETE OR STEEL SHAKER GRID OR RUBBLE AREA.

- TIMBER SLATS OR METAL GRILLE

-MIN LENGTH 15m-

100mm HIGH SPACED 200mm APART

BERM 0.3m MIN HIGH

- THE VEHICLE EXIT AREA IS TO BE MAINTAINED IN A CLEAN & 2. SERVICEABLE CONDITION DURING THE TOTAL TIME OF USAGE.
- ANY UNSEALED ROAD BETWEEN THE DEVICE AND COUNCILS ROADWAY IS TO BE TOPPED WITH 100mm THICK, 40mm NOMINAL SIZE AGGREGATE.
- PUBLIC ROADS MUST BE KEPT FREE OF DIRT AND MUD. SEDIMENT TRACKED ONTO THE PUBLIC ROADWAY BY VEHICLES LEAVING THE CONSTRUCTION SITE IS TO BE SWEPT UP IMMEDIATELY.
- FENCES SHOULD BE ERECTED TO ENSURE VEHICLES CAN NOT BYPASS THE STABILIZED ACCESS POINTS, UNLESS COMING FROM A STABILIZED

GALVANIZED HEAVY STEEL STRAPS (50x3mm) FIXED TO EACH HARDWOOD BEAM, STRAPS SPACED 1000mm APART & 75mm STEEL SPIKES 250mm FROM EDGE (PRE-DRILL HOLES) COMPACTED SUBGRADE 100mm SQ HARDWOOD BEAMS,

VEHICLE SHAKER GRID

SITE ENTRY/EXIT CONSTRUCTION NOTES:-

SPACED 200mm APART

(3000-3500mm LONG)

1. STRIP TOP SOIL & LEVEL SITE. PROVIDE CATCH DRAIN AT SIDES TO DIRECT RUNOFF WATER TO SEDIMENT TRAPS.

GEOTEXTILE

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N M

FABRIC

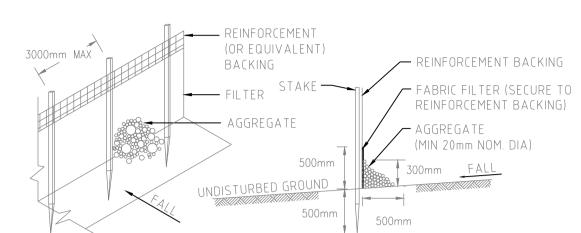
- 2. COMPACT SUBGRADE AND REMOVE ANY HIGH POINTS.
- 3. COVER AREA WITH GEOTEXTILE FABRIC. THIS MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF
- 4. CONSTRUCT 200mm THICK RUBBLE PAD OVER GEOTEXTILE USING ROAD BASE OR 30-40mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES. CONSTRUCT 300mm HIGH HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT TRAP.
- WHERE GRIDS ARE USED FIRST CONSTRUCT A 150 THICK PAD OVER GEOTEXTILE 5. FABRIC. LEVEL THIS IN BOTH DIRECTIONS. LOWER GRID ON TO THE PREPARED BASE AND ENSURE THAT NO PART IS SITTING ON ANY HIGH POINTS. BACKFILL THE SPACES BETWEEN THE GRIDS TO WITHIN 50mm OF THE TOP.
- PROVIDE RAMPS AT ENDS AND SIDE OF GRIDS. IF DEPRESSIONS OCCUR IN THE RAMPS DURING USE. ADD ADDITIONAL MATERIAL.

MAINTENANCE REQUIREMENTS:-

- PERMANENT OR TEMPORARY STABILIZATION OF THE EARTH BANK TO 1. ACCUMULATED SILT & SEDIMENT MUST BE REMOVED AT REGULAR INTERVALS AND AFTER EACH MAJOR STORM.
 - 2. SILT & SEDIMENT MUST BE REMOVED FROM OFF THE SITE OR TO A COUNCIL APPROVED LOCATION WITHIN THE SITE, WHERE IT WILL NOT ERODE.
 - THE SEDIMENT FENCES, BALES & TRAPS SHALL BE REGULARLY INSPECTED. ESPECIALLY AFTER RAIN AND KEPT IN GOOD REPAIR AND FUNCTIONING CONDITION AT ALL TIMES.
 - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER
 - THE SEDIMENT TRAPS SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTION AREA HAS BEEN PROPERLY STABILIZED.

4. THAT SEDIMENT, EROSION & WATER POLLUTION SHALL BE MINIMIZED.

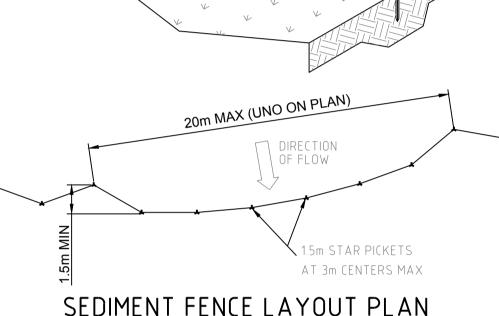
SEDIMENT TRAP



SEDIMENT FENCE DETAIL FOR ROCKY GROUND

SEDIMENT FENCE NOTES:-

- 1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
- 2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND SUFFICIENT TO PROVIDE RIGID SUPPORT, 3 METERS APART. WHERE THERE IS INSUFFICIENT SOIL DEPTH OVER ROCK, HOLES ARE TO BE DRILLED INTO ROCK TO ACCEPT THE STAR PICKETS.
- ON SOFT GROUND MATERIALS, DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE 3. LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- BACKFILL TRENCH OVER BASE OF FABRIC & COMPACT.
- 4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY THE GEOTEXTILE MANUFACTURER. USE A REINFORCEMENT 5. BACKING WITH NON SELF-SUPPORTING GEOTEXTILE FABRIC.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- ON HARD OR ROCKY GROUND, SMOOTH A 500mm WIDE STRIP UPSLOPE OF THE 6. FENCE LINE. TURN THE BOTTOM 500mm OF THE FABRIC UPSLOPE AND ANCHOR IN PLACE WITH SUITABLE AGGREGATE.
- 7. WHERE A SEDIMENT FENCE IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER THE FENCE SHOULD BE LOCATED 1.5 TO 2.0 METERS DOWN SLOPE FROM THE TOE OF THE BATTER.



JNDISTURBED AREA ✓

EXCAVATED SEDIMENT TRAP EXCAVATED SEDIMENT TRAP NOTES:-1. REMOVE THE SEDIMENT WHEN IT HAS ACCUMULATED TO HALF THE DESIGN DEPTH OF THE TRAP AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.

2. PROVIDE 50 cu.m/Ha OF SEDIMENT STORAGE VOLUME. 3. REFER TO THE MAINTENANCE REQUIREMENTS SEDIMENT FENCE LAYOUT PLAN STAKES DRIVEN INTO THE GROUND WITH FIRST STAPLES STAKE ANGLED TOWARDS PREVIOUSLY LAID BALE UNDISTURBED AREA

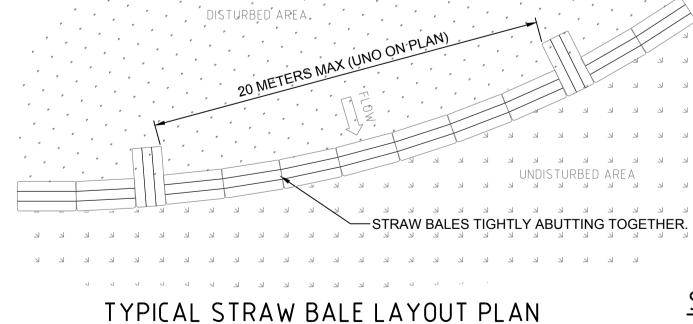
STAKED AND ENTRENCHED STRAW BALE - 2 STAKES PER BALE DISTURBED AREA DIRECTION BUFFER ZONE OF FLOW ZONE (GRASSED AREA) SOIL COMPACTED TO PREVENT TIPPING OF BAIL -100mm IN SOFT GROUND 1.2m STAR PICKET DRIVEN 600mm INTO GROUND (OR SIMILAR)

TYPICAL STRAW BALE SECTION

STRAW BALE NOTES:-

BALES.

- 1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
- PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. 2. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS TO BE PLACED PARALLEL TO GROUND.
- MAXIMUM HEIGHT OF FILTER IS ONE BALE.
- ON SOFT MATERIALS, EMBED EACH BALE IN THE GROUND 75mm TO 100mm 4. AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BAIL. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE
- WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER THE BALES SHOULD BE LOCATED 1.5 TO 2.0 METERS 5. DOWN SLOPE FROM THE TOE OF THE BATTER.
- WHERE REQUIRED WRAP GEOTEXTILE FILTER FABRIC AROUND BALES AND STAPLE IN POSITION.



NTS

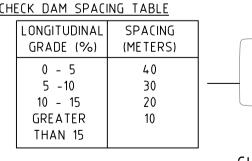
1.2m STAR PICKET

DRIVEN 600mm_

INTO GROUND

(OR SIMILAR)

TYPICAL STRAW BALE DETAIL



CHECK DAM PLAN

CHECK DAM SECTION

BALES EMBEDDED -

100mm TO 200mm

50x50x900mm STAKES —

BERM OR

SEE TABLE

NATURAL TERRAIN

VIEW OF CHECK DAM

OR 1.2m STAR PICKETS

STRAW BALE CHECK DAM DETAILS

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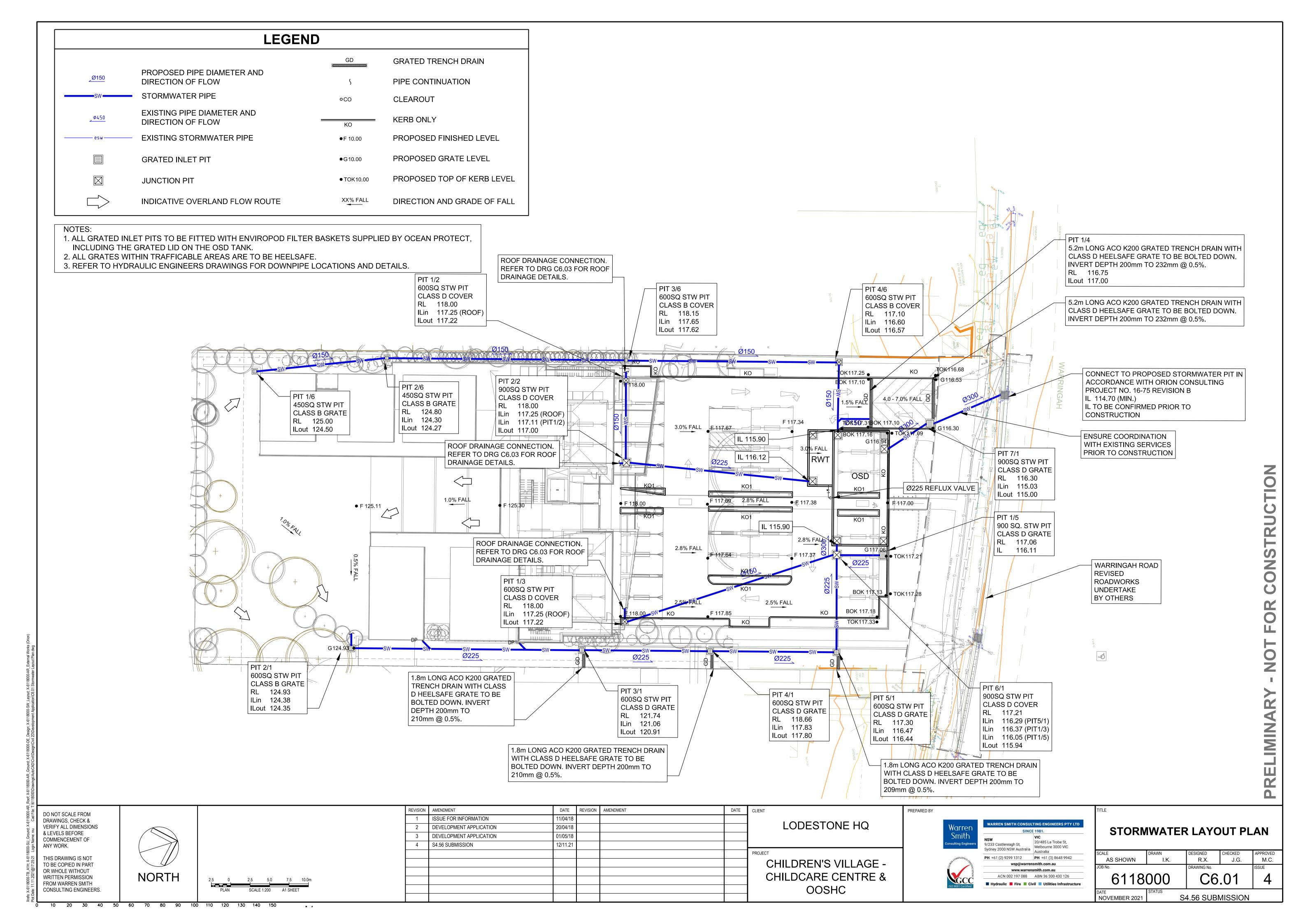


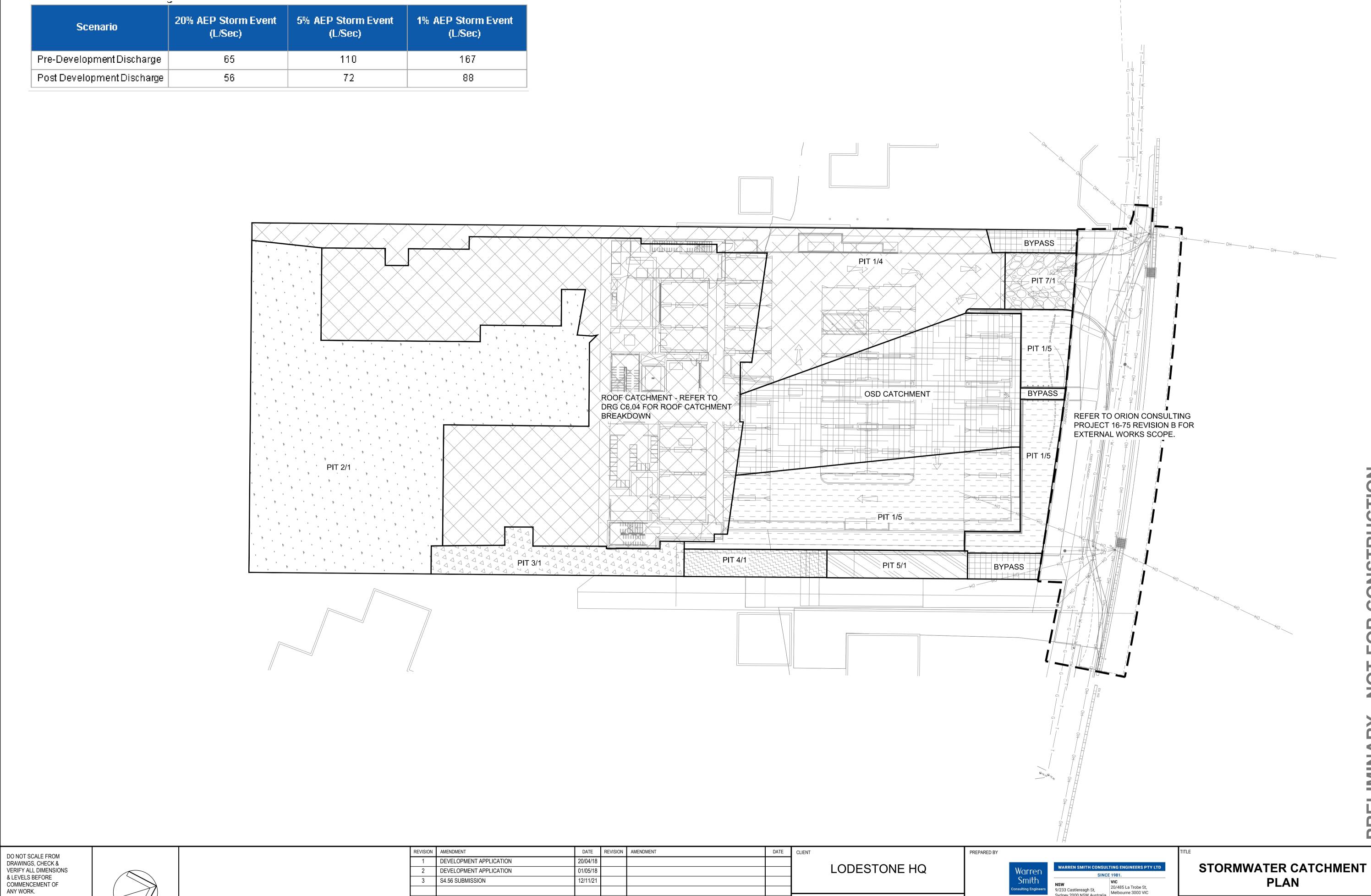


■ Hydraulic ■ Fire ■ Civil ■ Utilities Infrastructure

SEDIMENT AND EROSION CONTROL DETAILS

R.X. J.G. M.C. AS SHOWN I.K. 6118000 S4.56 SUBMISSION **NOVEMBER 2021**





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CHILDREN'S VILLAGE -CHILDCARE CENTRE & OOSHC

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NORTH

2.5 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:200 A1 SHEET



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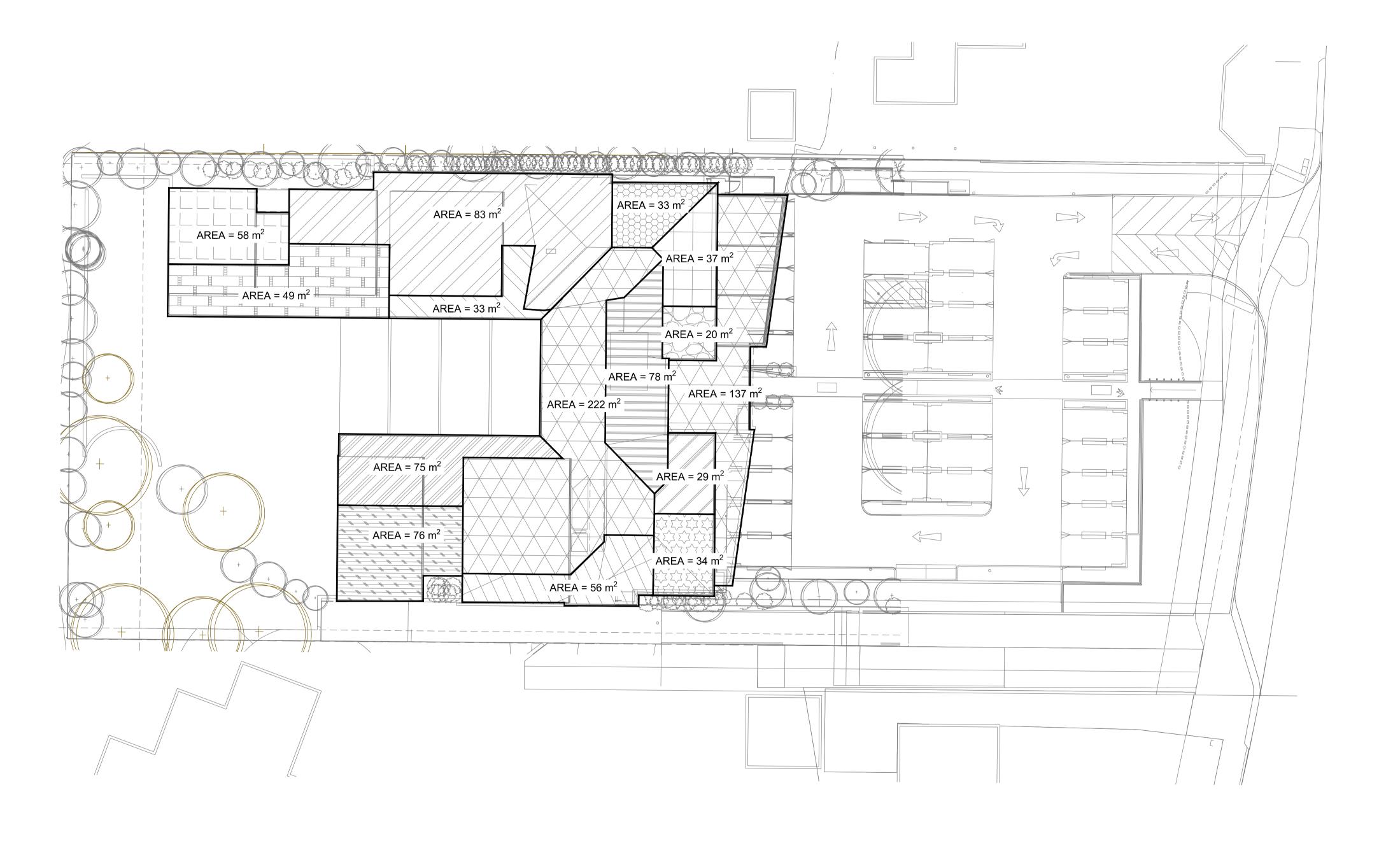
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Hydraulic Fire Civil Utilities Infrastructure

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NORTH

| 2.5 | 0 | 2.5 | 5.0 | 7.5 | 10.0m |
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LODESTONE HQ

CHILDREN'S VILLAGE CHILDCARE CENTRE &
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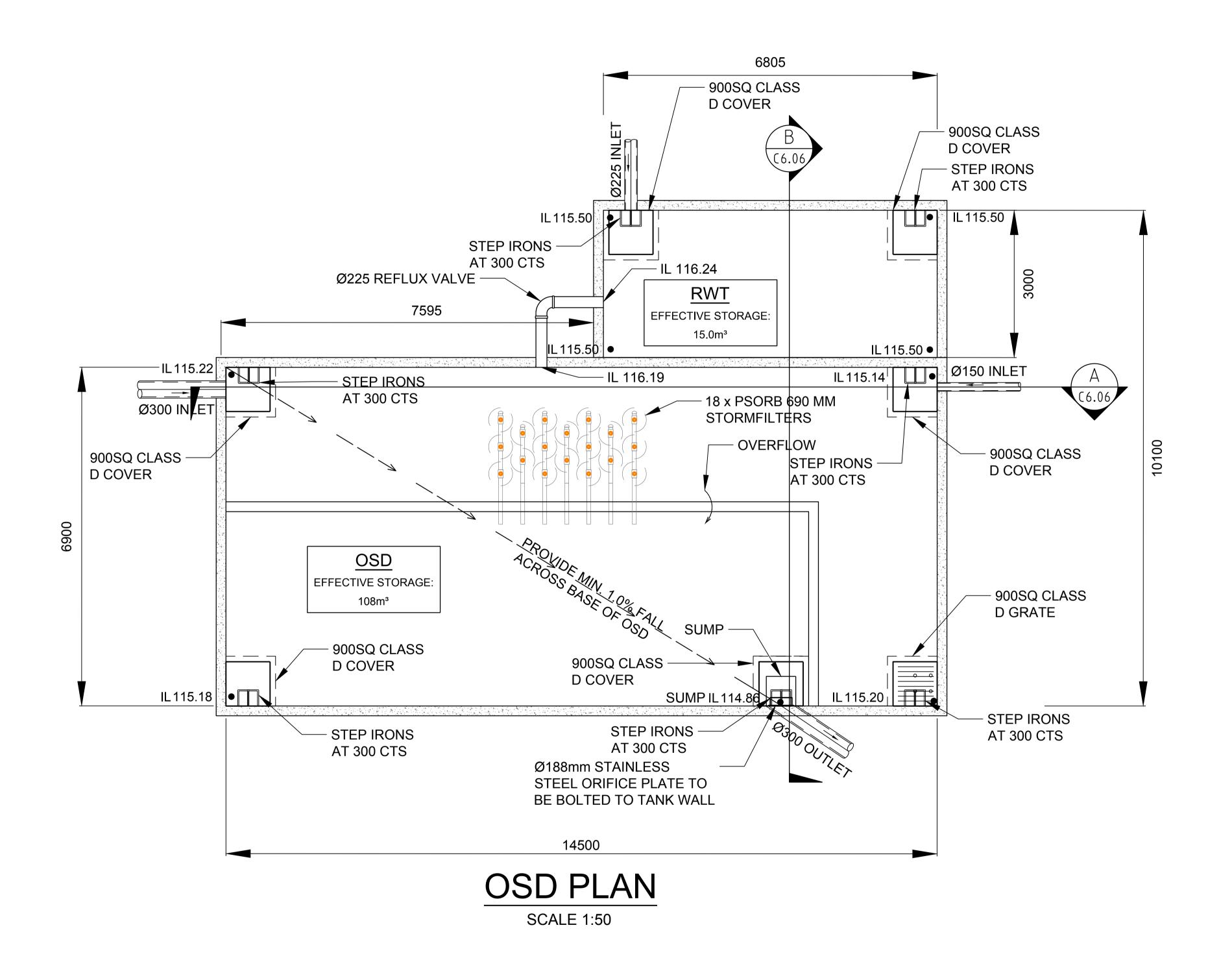
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ROOF CATCHMENT PLAN

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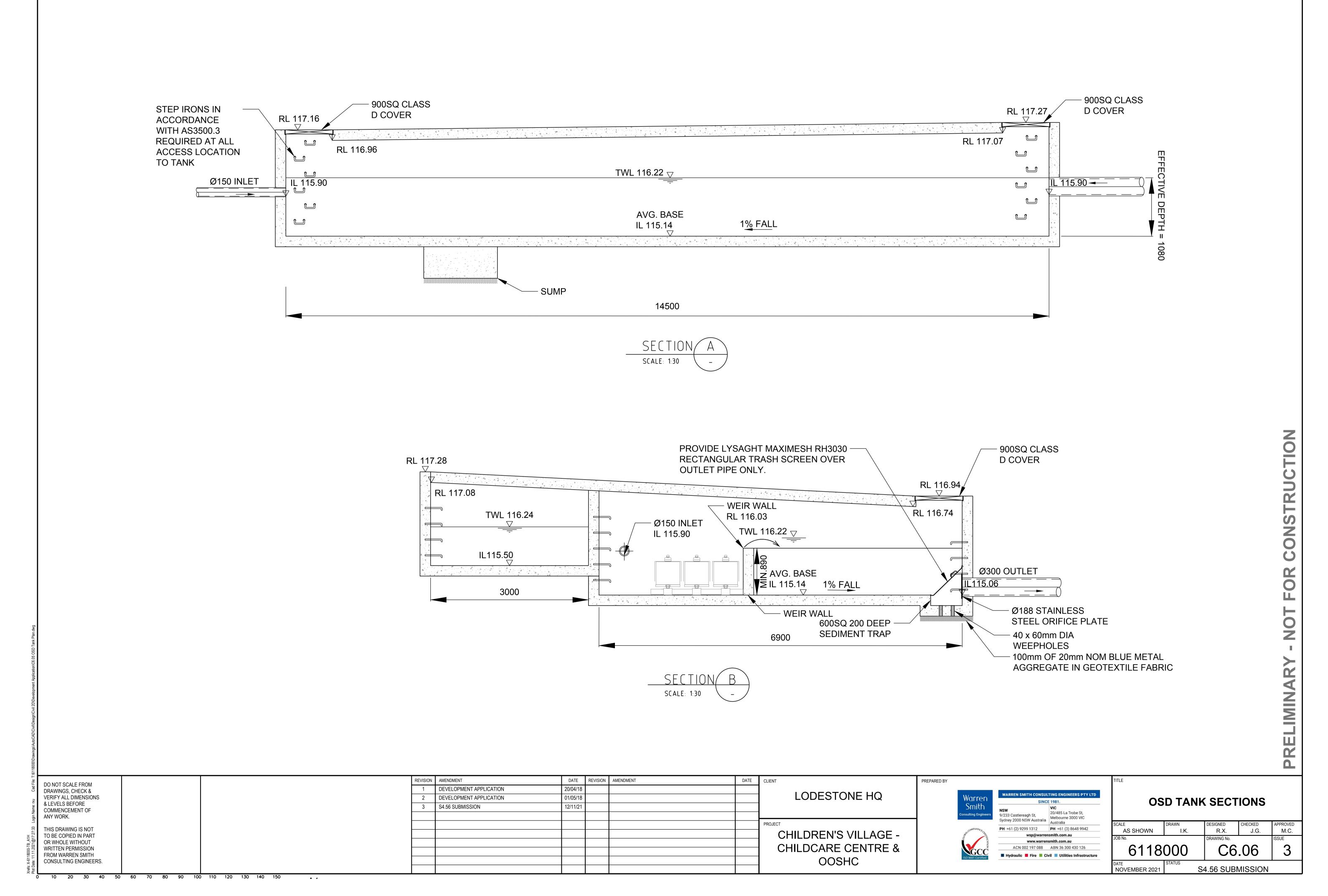
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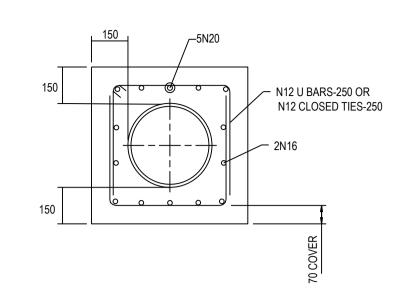
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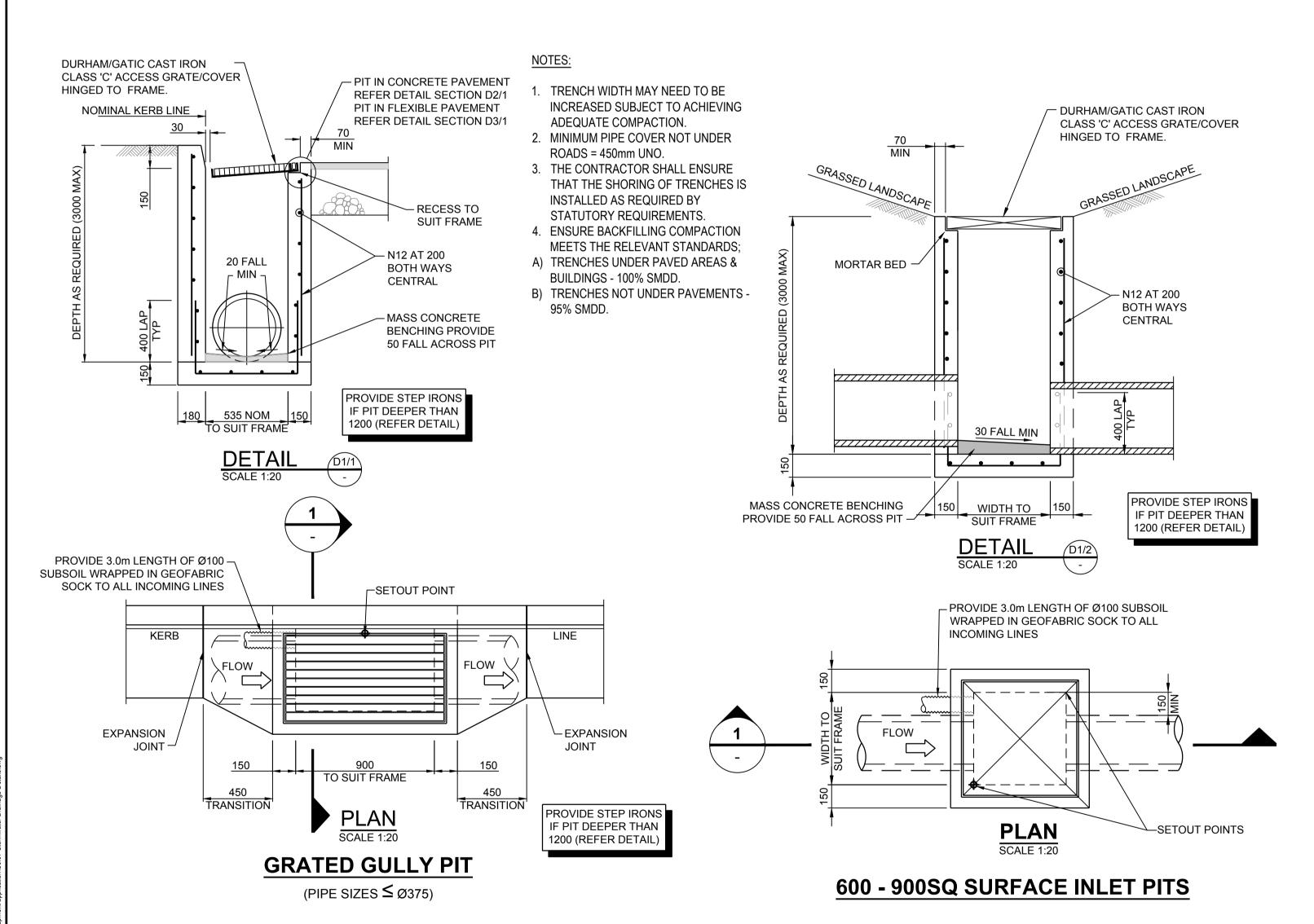
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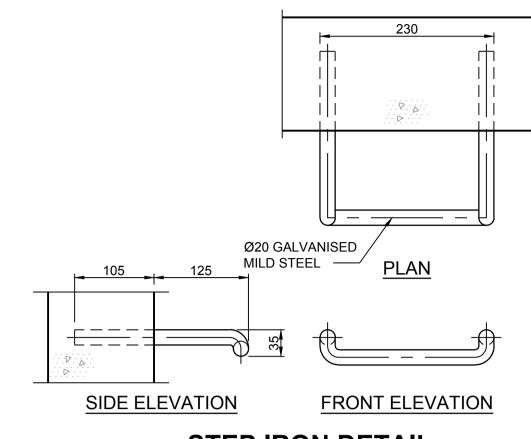
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CONCRETE ENCASEMENT DETAIL NOT TO SCALE





STEP IRON DETAIL SCALE 1:5

<u>PLAN</u> TOP OF PIT PIT FLOOR **ELEVATION**

STEP IRON PLACEMENT TO PIT WALL SCALE NTS

TRENCH WIDTH = O.D. + 300min - SURFACE LEVEL. BACKFILL. - OVERLAY ZONE. COMPACTED ORDINARY FILL (MAX. 75mm). REINFORCED CONCRETE PIPE (OUTSIDE DIAMETER = O.D.). HAUNCH ZONE. COMPACTED SELECTED FILL (NOMINAL 10mm AGGREGATE). BED ZONE. SELECT FILL (NOMINAL 10mm AGGREGATE).

GENERAL AREAS TYPICAL PIPE TRENCH

NOT TO SCALE

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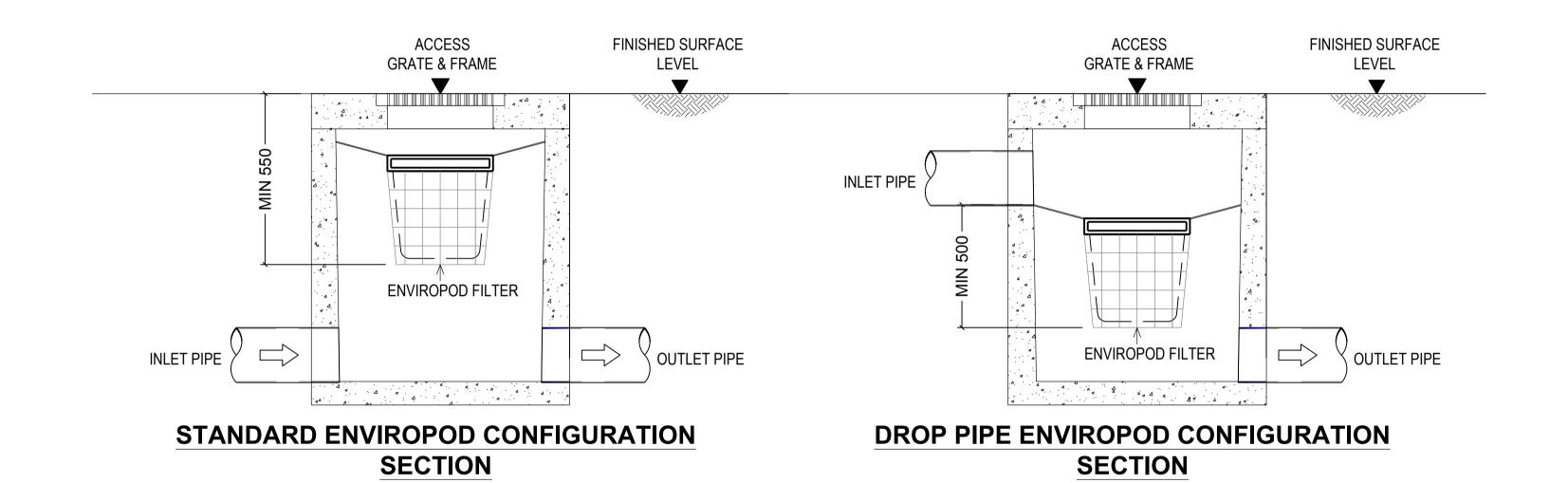
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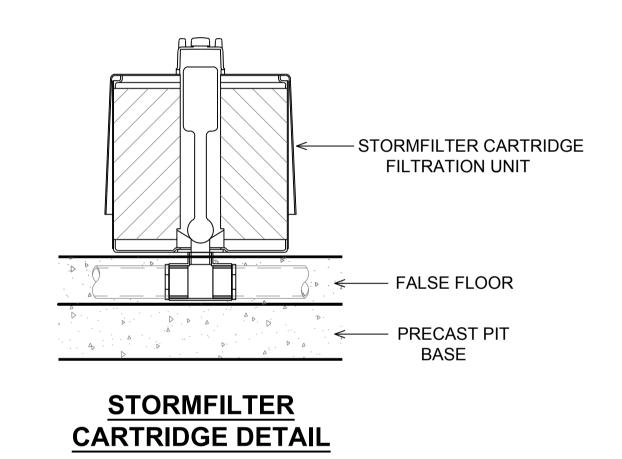
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| STORMWATER360 TREATMENT DEVICE TYPICAL | | | | | | | |
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