SES ICC UPGRADES

50-58 KNOX STREET GOULBURN, NSW 2580



DRAWING TITLE

GENERAL-00000

241798-TTW-10-DR-CI-00001 GENERAL COVER SHEET GENERAL NOTES AND LEGEND SHEET 1

EROSION AND SEDIMENT CONTROL-02000

241798-TTW-10-DR-CI-02001 EROSION AND SEDIMENT CONTROL NOTES AND LEGEND EROSION AND SEDIMENT CONTROL PLAN

241798-TTW-10-DR-CI-02101

STORMWATER-04000

STORMWATER NOTES AND LEGEND SHEET 1 241798-TTW-10-DR-CI-04001

241798-TTW-10-DR-CI-04002 STORMWATER NOTES AND LEGEND SHEET 2 241798-TTW-10-DR-CI-04101 STORMWATER DRAINAGE PLAN

Rev Description

ML ES 19.12.2024 A ISSUE FOR APPROVAL GC ES 15.11.2024

Eng Draft Date Rev Description



Eng Draft Date



SES ICC UPGRADES 56-58 KNOX STREET GOULBURN

Drawing Title:

GENERAL COVER SHEET NOT FOR CONSTRUCTION

241798-TTW-10-DR-CI-00001-B 20.12.2024 1:12 PM

- 1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT. STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL SHALL BE DISPOSED
- OF OFF-SITE UNLESS DIRECTED OTHERWISE.
- MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS. COMPACT SUBGRADE UNDER BUILDINGS AND PAVEMENTS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1. COMPACTION UNDER BUILDINGS TO EXTEND 2M
- MINIMUM BEYOND BUILDING FOOTPRINT. 5. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY; THE CONTRACTOR IS TO ENSURE THAT THE DRAWINGS USED FOR CONSTRUCTION HAVE BEEN APPROVED BY ALL RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT SITE.
- 6. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY. THE CONTRACTOR SHALL OBTAIN THESE REQUIREMENTS FROM THE AUTHORITY. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS AND SPECIFICATIONS, THE REQUIREMENTS OF THE AUTHORITY SHALL BE APPLICABLE.
- 7. FOR ALL TEMPORARY BATTERS REFER TO GEOTECHNICAL RECOMMENDATIONS.

REFERENCE DRAWINGS

1. THESE DRAWINGS HAVE BEEN BASED FROM, AND TO BE READ IN CONJUNCTION WITH THE FOLLOWING CONSULTANTS DRAWINGS. ANY CONFLICT TO THE DRAWINGS MUST BE NOTIFIED IMMEDIATELY TO THE ENGINEER.

| CONSULTANT | DRAWING TITLE | DRAWING NUMBER | REVISION | DATE |
|-----------------|-------------------------------|-------------------|----------|------------|
| LEAD ARCHITECTS | PROPOSED GROUND FLOOR PLAN | 24013-A07 | A5 | 14.12.2024 |

BOUNDARIES AND EASEMENTS

- 1. THE PROPERTY BOUNDARY AND EASEMENT LOCATIONS SHOWN ON TAYLOR THOMSON WHITTING DRAWING'S HAVE BEEN BASED ON INFORMATION RECEIVED FROM: COOPER AND RICHARDS SURVEYORS
- 2. TAYLOR THOMSON WHITTING MAKES NO GUARANTEES THAT THE BOUNDARY OR EASEMENT INFORMATION SHOWN IS CORRECT. TAYLOR THOMSON WHITTING WILL ACCEPT NO LIABILITIES FOR BOUNDARY INACCURACIES. THE CONTRACTOR/BUILDER IS ADVISED TO CHECK/CONFIRM ALL BOUNDARIES IN RELATION TO ALL PROPOSED WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. BOUNDARY INACCURACIES FOUND ARE TO BE REPORTED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION STARTING.

SURVEY

ORIGIN OF LEVELS: PM 8770 WITH A VALUE OF 670.453 (AHD) DATUM OF LEVELS: COORDINATE SYSTEM: MGA55 GDA2020

SURVEY PREPARED BY: COOPER AND RICHARDS SURVEYORS CONTACT SURVEYOR **SETOUT POINTS:**

1. TAYLOR THOMSON WHITTING DOES NOT GUARANTEE THAT THE SURVEY INFORMATION SHOWN ON THESE DRAWINGS IS ACCURATE AND WILL ACCEPT NO LIABILITY FOR ANY INACCURACIES IN THE SURVEY INFORMATION PROVIDED TO US FROM ANY CAUSE WHATSOEVER.

UNDERGROUND SERVICES - WARNING

- THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON TAYLOR THOMSON WHITTINGS DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.
- THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.
- THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE ENGINEER/SUPERINTENDENT.
- THE CONTRACTOR IS TO GET APPROVAL FROM THE RELEVANT STATE SURVEY DEPARTMENT, TO REMOVE/ADJUST ANY SURVEY MARK. THIS INCLUDES BUT IS NOT LIMITED TO; STATE SURVEY MARKS (SSM), PERMANENT MARKS (PM), CADASTRAL REFERENCE MARKS OR ANY OTHER SURVEY MARK WHICH IS TO BE REMOVED OR ADJUSTED IN ANY WAY.
- 5. TAYLOR THOMSON WHITTING PLANS DO NOT INDICATE THE PRESENCE OF ANY SURVEY MARK. THE CONTRACTOR IS TO UNDERTAKE THEIR OWN SEARCH.

BEFORE YOU DIG AUSTRALIA (BYDA)

- 1. PUBLIC SERVICE UTILITY INFORMATION SHOWN ON PLAN HAS BEEN COMPLIED FROM INFORMATION RECEIVED FROM BEFORE YOU DIG AUSTRALIA INQUIRY, REFERENCE NUMBER 37967586. OBTAINED ON 04.11.2024 UNLESS SPECIFICALLY SHOWN OTHERWISE, THIS LOCATION AND DEPTH OF SERVICES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED.
- 2. THE LOCATION OF SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES AND SHOULD BE CONFIRMED BY SITE INSPECTION."

SITE WORKS

- 1. ALL BASECOURSE MATERIAL TO COMPLY WITH RMS SPECIFICATION NO 3051 AND COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
- 2. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT **MATERIAL**
- 3. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED SELECT MATERIAL AND COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1

PUBLIC DOMAIN WORKS

1. PUBLIC DOMAIN WORKS ARE NOT TO COMMENCE UNTIL THESE DRAWINGS ARE STAMPED AS APPROVED.

SAFETY IN DESIGN

CONTRACTOR TO REFER TO APPENDIX B OF THE CIVIL SPECIFICATION FOR THE CIVIL RISK AND SOLUTIONS REGISTER.

- EXISTING SERVICES
- CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN PLACE TO DEMOLISH AND/OR RELOCATE.
- 2. EXISTING STRUCTURES
- CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S)
- 3. EXISTING TREES
- CONTRACTOR TO BE AWARE EXISTING TREES EXIST WITHIN THE SITE WHICH NEED TO BE PROTECTED. TO PREVENT DAMAGE TO TREES AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING TREES. ADVICE NEEDS TO BE SOUGHT FROM ARBORIST AND/OR LANDSCAPE ARCHITECT ON MEASURES REQUIRED TO PROTECT TREES.
- 4. GROUNDWATER
- CONTRACTOR TO BE AWARE GROUND WATER LEVELS ARE CLOSE TO EXISTING SURFACE LEVEL. TEMPORARY DE-WATERING MAY BE REQUIRED DURING CONSTRUCTION WORKS.
- 5. EXCAVATIONS
- DEEP EXCAVATIONS DUE TO STORMWATER DRAINAGE WORKS IS REQUIRED. CONTRACTOR TO ENSURE SAFE WORKING PROCEDURES ARE IN PLACE FOR WORKS. ALL EXCAVATIONS TO BE FENCED OFF AND BATTERS ADEQUATELY SUPPORTED TO APPROVAL OF GEOTECHNICAL ENGINEER.
- 6. GROUND CONDITIONS
- CONTRACTOR TO BE AWARE OF THE SITE GEOTECHNICAL CONDITIONS. REFER TO GEOTECHNICAL REPORT BY
- NO GEOTECH REPORT HAS BEEN PROVIDED FOR DA. CIVIL AND STRUCTURAL HAVE UTILISED SURROUNDING GEOTECH FROM NEARBY JOBS FOR DA
- 7. HAZARDOUS MATERIALS
- EXISTING ASBESTOS PRODUCTS & CONTAMINATED MATERIAL MAY BE PRESENT ON SITE. CONTRACTOR TO ENSURE ALL HAZARDOUS MATERIALS ARE IDENTIFIED PRIOR TO COMMENCING WORKS. SAFE WORKING PRACTICES AS PER RELEVANT AUTHORITY TO BE ADOPTED AND APPROPRIATE PPE TO BE USED WHEN HANDLING ALL HAZARDOUS MATERIALS. REFER TO GEOTECHNICAL/ENVIRONMENTAL REPORT BY
- NO GEOTECH REPORT HAS BEEN PROVIDED FOR DA. CIVIL AND STRUCTURAL HAVE UTILISED SURROUNDING GEOTECH FROM NEARBY JOBS FOR DA
- 8. CONFINED SPACES
- CONTRACTOR TO BE AWARE OF POTENTIAL HAZARDS DUE TO WORKING IN CONFINED SPACES SUCH AS STORMWATER PITS. TRENCHES AND/OR TANKS. CONTRACTOR TO PROVIDE SAFE WORKING METHODS AND USE APPROPRIATE PPE WHEN ENTERING CONFINED SPACES.
- 9. MANUAL HANDLING
- CONTRACTOR TO BE AWARE MANUAL HANDLING MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ENSURE MANUAL HANDLING PROCEDURES AND ASSESSMENTS ARE IN PLACE PRIOR TO COMMENCING WORKS.
- CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE TAKEN TO PREVENT POLLUTANTS FROM CONSTRUCTION WORKS CONTAMINATING THE SURROUNDING ENVIRONMENT.
- 11. SITE ACCESS/EGRESS
- CONTRACTOR TO BE AWARE SITE WORKS OCCUR IN CLOSE PROXIMITY TO FOOTPATHS AND ROADWAYS. CONTRACTOR TO ERECT APPROPRIATE BARRIERS AND SIGNAGE TO PROTECT SITE PERSONNEL AND PUBLIC.
- 12. VEHICLE MOVEMENT
- CONTRACTOR TO SUPPLY AND COMPLY WITH TRAFFIC MANAGEMENT PLAN AND PROVIDE ADEQUATE SITE TRAFFIC CONTROL INCLUDING A CERTIFIED TRAFFIC MARSHALL TO SUPERVISE VEHICLE MOVEMENTS WHERE NECESSARY.

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

BUILDING SLIDING DOOR ENTRY

BOUNDARIES

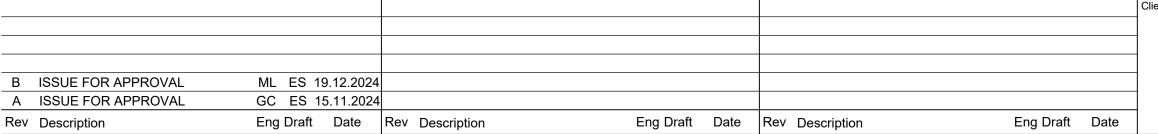
EXISTING REMOVED **PROPOSED BLOCK BOUNDARY** _---_---

> **BLOCK BOUNDARY EXTINGUISHED**

BUILDINGS EXISTING REMOVED **PROPOSED BUILDING ENVELOPE FUTURE BUILDING ENVELOPE BASEMENT OUTLINE BUILDING AWNING** _____ **BUILDING DOUBLE DOOR ENTRY BUILDING SINGLE DOOR ENTRY**

| LANDSCAPE | | | |
|-----------|--|----------------------|--|
| EXISTING | REMOVED | PROPOSED | |
| / | - x · x · /x · x · x · x · x /· x · x - | // | FENCE LINE |
| | — ×/- × - × - × - × - × - × - × - × - | - /- - | FENCE LINE ON BOUNDARY |
| | - x · x · x · x · x · x · x · x · x · x | | PROPERTY ACCESS GATE |
| 0 | | 0 | BUILDING SLIDING DOOR ENTRY TREE REPRESENTATION MAY VARY BASED ON LANDSCAPE CONSULTANT OR SURVEY INFORMATION |
| | * | | PAVEMENT |
| | | | SOFT LANDSCAPE |
| | | | TREE PROTECTION ZONE |
| | | | STRUCTURAL ROOT ZONE |

NOT FOR CONSTRUCTION







SES ICC UPGRADES 56-58 KNOX STREET **GOULBURN**

GENERAL NOTES AND LEGEND SHEET 1

241798-TTW-10-DR-CI-00003-B 20.12.2024 8:52 AM

LOCAL AUTHORITY REQUIREMENTS,

- EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER

 LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK"). 2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.

3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.

4. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.

5. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.

6. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES. 7. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH

WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS. 8. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED

9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.

10. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING. 11. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.

12. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

- PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.
- CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.
- CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM. CONSTRUCT SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.
- CONSTRUCT TURF LINED SWALES.
- PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.

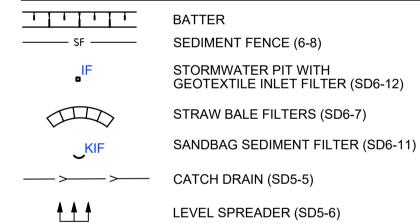
2. CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED

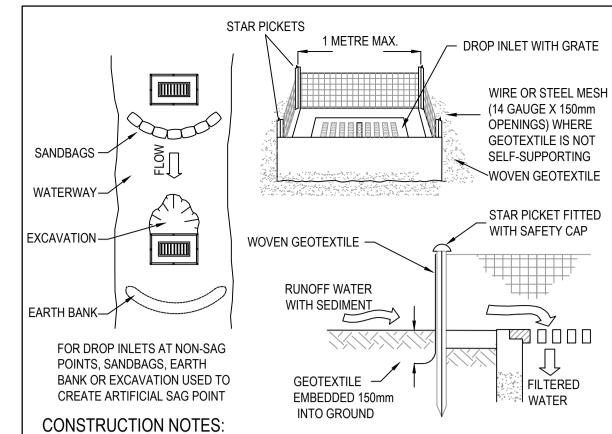
3. ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS. 4. PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

WATER QUALITY TESTING REQUIREMENTS

- PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENT CONSULTANT OUTLINING THE
- COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)
- IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM. THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE QUALITY OF WATER DISCHARGED FROM THIS SITE. THIS SHOULD OUTLINE THE FREQUENCY OF WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.

EROSION AND SEDIMENT CONTROL LEGEND



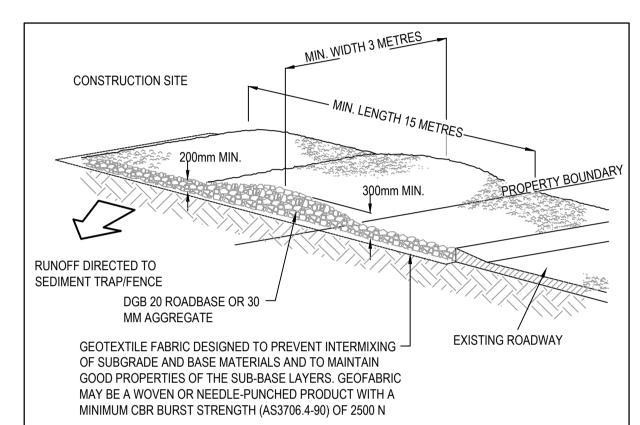


. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES. 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES

FOR THE STRAW BALES OR GEOFABRIC.REDUCE THE PICKET SPACING TO 1m CENTRES. 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS

SHOWN IN THE DRAWING. 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER SD 6-12



CONSTRUCTION NOTES:

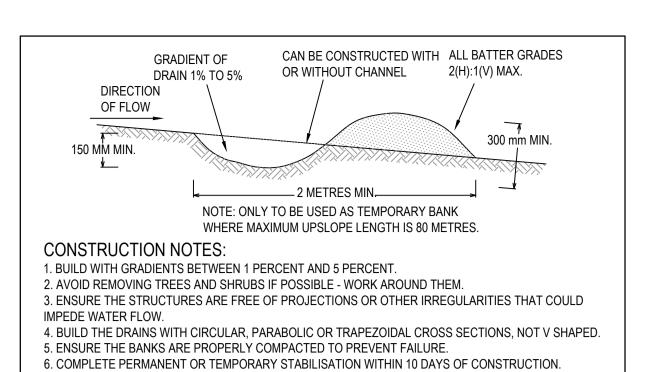
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.

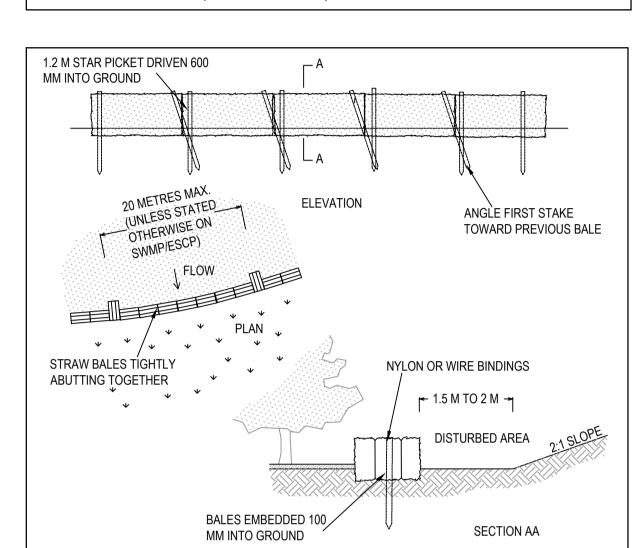
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE. 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST

5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

SD 6-14





CONSTRUCTION NOTES:

EARTH BANK (LOW FLOW)

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE

CONTOURS OF THE SITE. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.

3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE 4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE

TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS. 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE

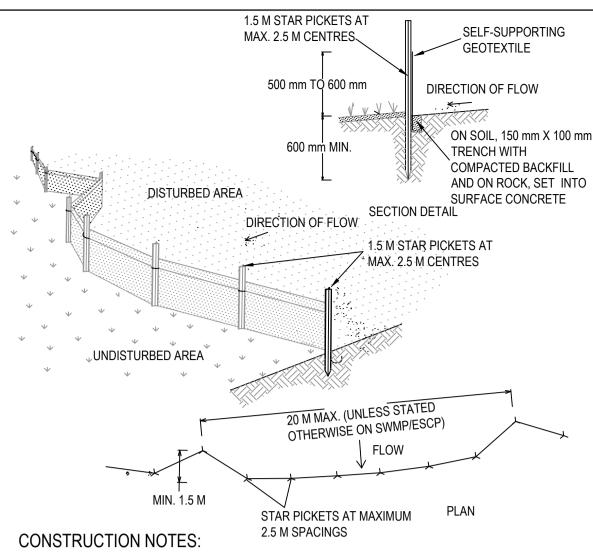
THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE. 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED -THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER

SD 6-7

SD 5-5

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS



1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE

2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE

MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY. 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

SD 6-8

NOT FOR CONSTRUCTION

Originator Zone Type Role Sheet No. Rev 241798-TTW-10-DR-CI-02001-B 20.12.2024 8:53 AM

B ISSUE FOR APPROVAL ML ES 19.12.2024 GC ES 15.11.2024 A ISSUE FOR APPROVAL Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description Eng Draft Date

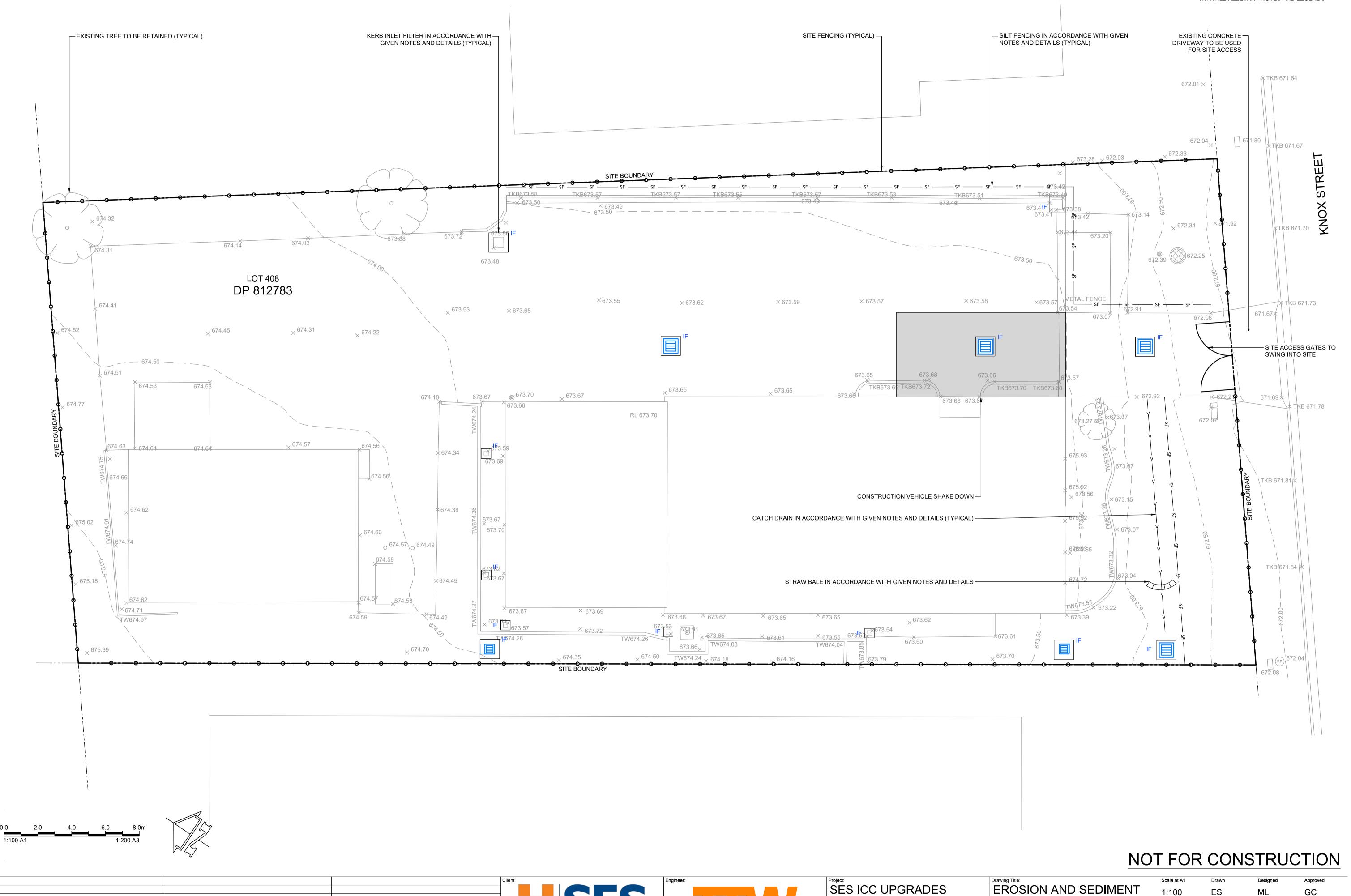






241798-TTW-10-DR-CI-02101-B

20.12.2024 1:12 PM



NSW STATE EMERGENCY SERVICE

Eng Draft Date

B ISSUE FOR APPROVAL

A ISSUE FOR APPROVAL

Rev Description

ML ES 19.12.2024

GC ES 15.11.2024

Eng Draft Date Rev Description

Eng Draft Date Rev Description

56-58 KNOX STREET

GOULBURN

www.ttwengineers.com

CONTROL PLAN

STORMWATER DRAINAGE

1. STORMWATER DESIGN CRITERIA

(A) AVERAGE EXCEEDANCE PROBABILITY: -

- 1% AEP FOR ROOF DRAINAGE TO FIRST EXTERNAL PIT - 5% AEP FOR PAVED AND LANDSCAPED AREAS

(B) RAINFALL INTENSITIES: -

- TIME OF CONCENTRATION: 5 MINUTES - 1% AEP = 152mm/hr

- 5% AEP = 118mm/hr

(C) RAINFALL LOSSES: -

- IMPERVIOUS AREAS: IL = 1.00mm CL = 0.00mm/hr - PERVIOUS AREAS: IL = 13.30mm CL = 1.32mm/hr

2. PIPES 300 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS D APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.

3. PIPES UP TO 300 DIA MAY BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS, SUBJECT TO

APPROVAL BY THE ENGINEER 4. EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED SUBJECT TO APPROVAL

PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ENGINEER.

6. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE MANUFACTURED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA. 7. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED

UPVC SEWER GRADE PIPE IS TO BE USED.

GRATES AND COVERS SHALL CONFORM WITH AS 3996-2006, AND AS 1428.1 FOR ACCESS

PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING TO BE TYPE H2 U.N.O. 10. CARE IS TO BE TAKEN WITH INVERT LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

11. ALL STORMWATER PIPES TO BE 150 DIA AT 1.0% MIN FALL U.N.O. 12. SUBSOIL DRAINS TO BE SLOTTED FLEXIBLE UPVC U.N.O.

13. ADOPT INVERT LEVELS FOR PIPE INSTALLATION (GRADES SHOWN ARE ONLY NOMINAL).

STORMWATER PIPE INFORMATION

PIPE INFORMATION

UPSTREAM INVERT LEVEL PIPE LENGTH 0.0 m/s

PIPE INTERNAL DIAMETER PIPE MATERIAL AND CLASS HYDRAULIC FLOW RATE PIPE GRADE

DOWNSTREAM INVERT LEVEL

TIE INFORMATION

L 10.0m D 1.0m Ø150

TIE LENGTH TIE DEPTH TIE DIAMETER

STORMWATER STRUCTURE IDENTIFICATION

LINE NUMBER 1 - STRUCTURE NUMBER 2

SUBSOIL DRAINAGE

- 1. ALL SUBSOIL DRAINAGE WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT STANDARDS AND SPECIFICATIONS OUTLINED IN THE PROJECT SPECIFICATION.
- 2. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 3. SUBSOIL DRAINS TO BE Ø100 SLOTTED FLEXIBLE uPVC UNLESS NOTED OTHERWISE.
- 4. ALL SUBSOIL DRAINS ARE TO BE AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
- 5. ALL SUBSOIL DRAINS TO BE RODDED PRIOR TO THE PLACEMENT OF ASPHALT.
- 6. ALL SUBSOIL DRAINS ARE DRAWN DIAGRAMMATICALLY FOR CLARITY. REFER TO TYPICAL DETAIL FOR SUBSOIL SETOUT.

STORMWATER LEGEND

DOWN PIPE

RODDING POINT

PLANTER OUTLET

RAINWATER OUTLET

GROSS POLLUTANT TRAP

OVERLAND FLOW ARROW CONCRETE INCASED PIPE

SWALE DRAIN

STORMWATER ANNOTATIONS

PIPE INVERT LEVEL

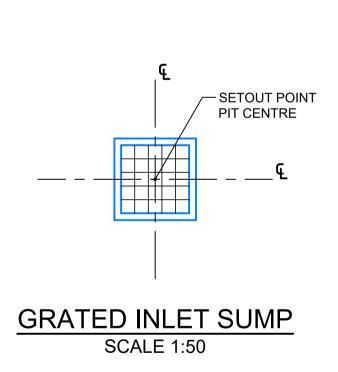
PIPE OBVERT LEVEL

PIT COVER LEVEL

WATER LEVEL

<u>NOTE</u>

STORMWATER DRAINAGE NOTES AND LEGEND IS TO READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00002

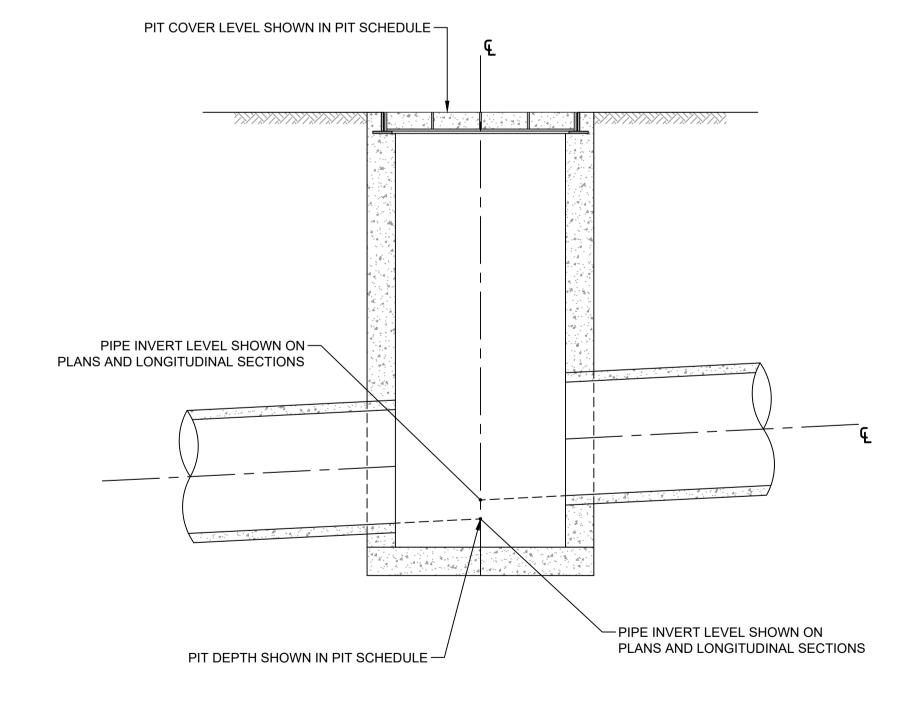


ML ES 19.12.2024

GC ES 15.11.2024

Eng Draft Date Rev Description

Eng Draft Date Rev Description



B FOR APPROVAL

Rev Description

A ISSUE FOR APPROVAL

DESIGN INVERT LEVELS AT STORMWATER STRUCTURES **SCALE 1:20**

Eng Draft Date

NSW STATE EMERGENCY SERVICE



SES ICC UPGRADES 56-58 KNOX STREET **GOULBURN**

STORMWATER NOTES AND LEGEND SHEET 1

PLAN ID

XL

DEPTH ID

FLOW DIVERTER

GENERAL NOTES

REQUIREMENTS.

PHONE: 1300 354 722

4. DRAWINGS NOT TO SCALE.

OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.

FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.

www.oceanprotect.com.au

BAG DEPTH

170

600

DEPTH ID

- FILTRATION BAG

1. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL

2. CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE

3. OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY

This drawing is copyright and is the property of TTW

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

and must not be used without authorisation.

MAXIMUM PIT PLAN DIMENSIONS

450mm x 450mm

600mm x 600mm

900mm x 900mm

1200mm x 1200mm

OVERALL DEPTH

270

450

700

OVERFLOW

- FILTRATION CAGE

NOT FOR CONSTRUCTION

241798-TTW-10-DR-CI-04001-B 20.12.2024 8:53 AM

---- cSW Ø150 ---

MATERIAL

EXHUMED OR ABANDONED MATERIAL

— X · X · X · X SWX015X · X · X · X —

PROPOSED

₩ SW Ø150 SW Ø150 ---

Ø150 STORMWATER LINE WITH GRATED INLET SUMP AND PIPE END CAP

Ø300 STORMWATER LINE WITH KERB INLET SUMP (KIS) ON GRADE (KIS) AND DIRECTIONAL FLOW ARROW

Ø375 STORMWATER LINE WITH KERB INLET SUMP (KIS) IN SAG (KIS) AND HEADWALL

Ø225 STORMWATER LINE WITH KERB GRATED INLET SUMP AND TRENCH DRAIN

Ø450 STORMWATER LINE WITH JUNCTION PIT AND KERB INLET SUMP ON GRADE (KIS) FOR PIPES >THAN Ø450 UP TO Ø750

—>——>|||||->——>—

DISH DRAIN WITH DISH DRAIN INLET SUMP (DDIS) AND FLOW DIRECTIONAL ARROWS

SUBSOIL DRAINAGE

EXISTING

_____ SS _____ SS ____

PROPOSED

SUBSOIL DRAINAGE WITH HIGH END RISER AND INTERMEDIATE RISER

SEWER

EXISTING

------ cS Ø150 ------- cS Ø150 ------

EXHUMED OR ABANDONED (MATERIAL)

-X &S \$\phi X 50 \times X \times X \end{align* c SX\$\phi 150 \times X \times 150 \times 150 \times X \times 150 \times 150 \times X \times 150 \t

PROPOSED



CAST IN-SITU REINFORCED DN1050 SEWER MAINTENANCE HOLE SEWERS ≤ DN350. DEPTH OF INVERT 1.2m TO 6.0m DEEP



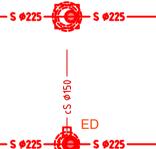
CAST IN-SITU REINFORCED DN1200 SEWER MAINTENANCE HOLE SEWERS ≤ DN450. DEPTH OF INVERT 1.6m TO 10m DEEP



CAST IN-SITU REINFORCED DN1800 SEWER MAINTENANCE HOLE SEWERS DN500 - DN750. DEPTH OF INVERT 1.6m TO 10m DEEP



PRECAST DN1050 SEWER MAINTENANCE HOLE SEWERS DN150 - DN225. DEPTH UP TO 6.0m



PRECAST DN1200 SEWER MAINTENANCE HOLE SEWERS DN150 - DN225. DEPTH UP TO 6.0m



PRECAST DN1050 SEWER MAINTENANCE HOLE SEWERS DN150 - DN225. DEPTH UP TO 6.0m WITH EXTERNAL DROP DN150 OR DN225

WATER

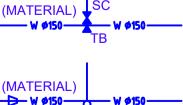
EXISTING

(MATERIAL) EXHUMED OR ABANDONED

— X · (X√·ØX50 X · X · X · ε\X Ø1X0 · X ·

PROPOSED

Ø150 WATER LINE WITH HYDRANT, STOP VALVE AND PIPE END CAP



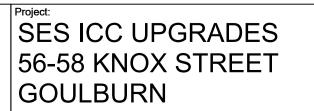
Ø150 WATER LINE WITH THRUST BLOCK, STOP COCK AND WATER METER

Ø150 WATER LINE WITH REDUCER, PIERED THRUST BLOCK

B ISSUE FOR APPROVAL ML ES 19.12.2024 A ISSUE FOR APPROVAL GC ES 15.11.2024 Eng Draft Date Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description







STORMWATER NOTES AND LEGEND SHEET 2

| | Scale at A1 | Drawn | | Designe | ed | Approved | |
|---|-------------|------------|------|---------|------|-----------|----|
| | AS SHOWN | ES | | ML | | GC | |
|) | Project No | Originator | Zone | Type | Role | Sheet No. | Re |

241798-TTW-10-DR-CI-04002-B 20.12.2024 1:13 PM

GAS

EXHUMED OR **EXISTING** PROPOSED **ABANDONED**

— X - XG·Φ50· X - X - X ε0**X**Φ5**0**Χ - X -

110kPa Ø50 GAS LINE, WITH GAS MARKER AND GAS VALVE

TELECOMMUNICATIONS

EXHUMED OR **EXISTING** ABANDONED -----cCOMM -------cCOMM ------

PROPOSED

TELECOMMUNICATIONS LINE WITH TELECOMMUNICATIONS PIT

This drawing is copyright and is the property of TTW

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

and must not be used without authorisation.

ELECTRICAL

----- cG φ50 ------ cG φ50 -----

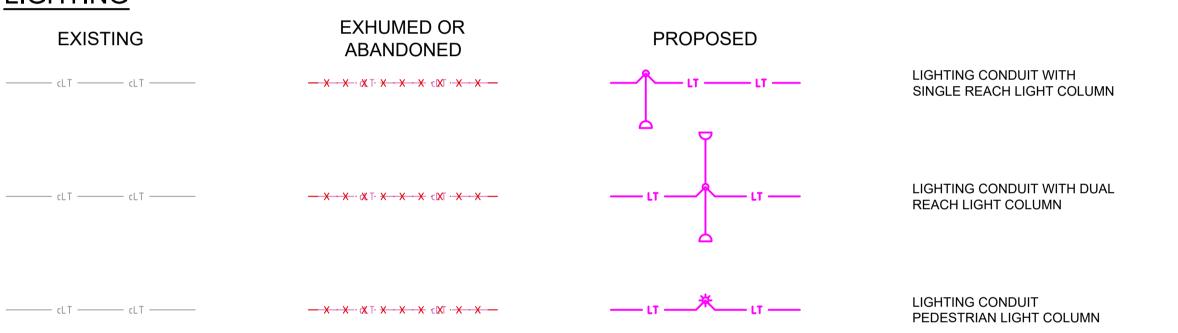
EXISTING PROPOSED **ABANDONED** — X ^y X · X εŁ X · X · ^yX · X εl X · X · ______ cLV _____ cLV ____ — X · X · 0X √· X · X · X · € |X√ · X · X · — _____ LV ____ LV ____ _____ cLV _____ cLV ____ — X ^y X · X cHX · X · ^yX · X ∈lX/ · X — $\overline{}$ X · X · $\overline{}$ X · X · X · X · $\overline{}$ $\overline{}$ _____ cHV _____ cHV _____

EXHUMED OR

LOW VOLTAGE OVERHEAD ELECTRICAL LINE WITH POWER POLE LOW VOLTAGE BELOW GROUND ELECTRICAL CONDUIT WITH ELECTRICAL PIT HIGH VOLTAGE OVERHEAD ELECTRICAL LINE WITH POWER POLE HIGH VOLTAGE BELOW GROUND

ELECTRICAL CONDUIT WITH ELECTRICAL PIT

LIGHTING



SHARED UTILITIES TRENCH

| EXISTING | EXHUMED OR ABANDONED | PROPOSED | |
|-------------------------------|--|----------|--------------------------------|
| cST1 | — X · X · cXT1 X · X · X cSX1 · X · X | ST1 ST1 | SHARED UTILITIES TRENCH TYPE 1 |
| cST1 | | ST2 ST2 | SHARED UTILITIES TRENCH TYPE 2 |
| cST1 | — X · X · cXT3 X · X · X cSX3· X · X — | ST3 ST3 | SHARED UTILITIES TRENCH TYPE 3 |
| cST1 | — X · X · CXT4X · X · X cSX4· X · X — | ST4 ST4 | SHARED UTILITIES TRENCH TYPE 4 |
| cST1 cST1 | — X · X · cXT5 X · X · X cSX5· X · X — | ST5 ST5 | SHARED UTILITIES TRENCH TYPE 5 |
| REFER SHARED UTILITIES TRENCH | DETAILS | | |

CLASSIFICATION OF EXISTING UTILITY INFORMATION

- SIGHTED, MUST BE LOCATED, THEN POTHOLED. UTILITY MUST BE PHYSICALLY SIGHTED AND MEASURED
- ELECTRONICALLY DETECTED AND LOCATED ON SITE USING VARIOUS TRACING METHODS.
- ALIGNED FROM SURFACE FEATURES AND DIGITISED DATA.
- DIGITISED DATA (DIAL BEFORE YOU DIG).

<u>NOTE</u>

- 1. BELOW GROUND SERVICES CAN BE REPRESENTED AS GREY FOR EXISTING AND BLACK FOR PROPOSED DEPENDING
- 2. EXISTING SERVICES PITS, STRUCTURES AND COLUMNS ARE ILLUSTRATED AS PER THE ORIGINAL SURVEY.

NOT FOR CONSTRUCTION

