



DREAM BUILD

1 BILAMBEE AVENUE, BILGOLA PLATEAU

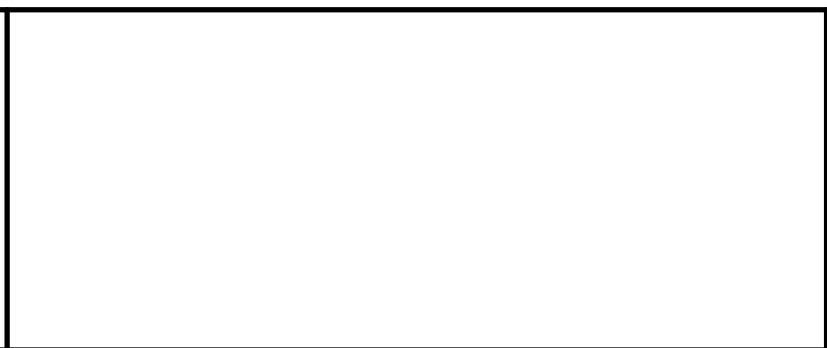
SITEWORKS AND STORMWATER MANAGEMNT PLAN DEVELOPMENT APPLICATION

DRAWING SCHEDULE

DRAWING NO.	DESCRIPTION
200019-DA-C01.01	COVER SHEET AND DRAWING SCHEDULE
200019-DA-C01.21	GENERAL NOTES AND LEGEND
200019-DA-C02.01	CONCEPT EROSION AND SEDIMENTATION CONTROL PLAN
200019-DA-C02.11	EROSION AND SEDIMENTATION CONTROL DETAILS
200019-DA-C03.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN - BASEMENT LEVEL 2
200019-DA-C03.02	SITEWORKS AND STORMWATER MANAGEMENT PLAN - BASEMENT LEVEL 1
200019-DA-C03.03	SITEWORKS AND STORMWATER MANAGEMENT PLAN - GROUND FLOOR LEVEL
200019-DA-C05.01	DRIVEWAY LONGITUDINAL SECTION
200019-DA-C06.01	DETAILS - SHEET 01
200019-DA-C06.02	DETAILS - SHEET 02

REV.	DATE	DESCRIPTION	DRN.	DES.	IVERIF.	APPD.
1	1/10/2020	ISSUED FOR DEVELOPMENT APPLICATION	RT	RT	AD	AD

Client



Scale

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SCALE 1:5000 @A1

North

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Scale 1:5000	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
Date 01/10/2020	Project Number/Drawing Number 200019-DA-C01.01	
Size A1	Revision 1	
Datum AHD		

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SUPPLIED BY REGISTERED SURVEYORS TO PROVIDE A BASIS FOR DESIGN. THE USE OF THIS SURVEY BASE DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
2. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE DESIGN ENGINEER.
3. THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMMATIC ONLY. WHERE DISTANCES TO BOUNDARIES ARE CRITICAL THEY SHOULD BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY FURTHER SURVEY.

1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER ALL LIVE SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
4. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
5. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREA AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
9. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION A THOROUGH SEARCH OF ALL SERVICE AUTHORITIES SHOULD BE MADE TO DETERMINE THE POSSIBLE LOCATION OF ANY FURTHER UNDERGROUND SERVICES.
10. AUTHORITY PLANS GENERALLY SHOW ONLY THE PRESENCE OF CABLES AND PLANT AND DO NOT WARRANT OR GUARANTEE THAT SUCH PLANS ARE ACCURATE. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR EXISTING SERVICES AND PLANT. BEFORE USING MACHINE EXCAVATORS SERVICES MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY ITS LOCATION.
11. THE CONTRACTOR IS TO UNDERTAKE A DIAL-BEFORE-YOU-DIG SEARCH PRIOR TO ANY EXCAVATION AND MAINTAIN A CURRENT SET ON-SITE DURING EXCAVATION WORKS.
12. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE ENSURE SOLUTIONS CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
13. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON-SITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON-SITE. SEARCH RESULTS ARE TO BE KEPT ON-SITE AT ALL TIMES.

GENERAL INSTRUCTIONS

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL. NSW OFFICE OF WATER, OFFICE OF ENVIRONMENT AND HERITAGE, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT
ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

6. WHERE AS PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AT LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

- a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN, REFER DETAIL.
- b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER, REFER DETAIL.
- c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN (D) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
- d. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

- a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
- b. ENSURING THAT NOTHING IS NAILED TO THEM
- c. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
 - (i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 15 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
 - (ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - (iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE DESIGN ENGINEER.
3. THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH RMS AND LOCAL AUTHORITY REGULATIONS AND REQUIREMENTS.
4. THE CONTRACTOR IS TO OBTAIN ALL AUTHORITY APPROVALS AS REQUIRED.
5. RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION ON COMPLETION OF WORKS.
6. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO LODGMENT OF TENDER AND ON SITE WORKS. THE PRICE AS TENDERED SHALL BE INCLUSIVE OF ALL WORKS SHOWN ON THE TENDER PROJECT DRAWINGS. ADDITIONAL PAYMENTS FOR WORKS SHOWN ON THE TENDER PROJECT DRAWINGS WILL NOT BE APPROVED.
9. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND SPECIFICATIONS, AND ANY OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
10. THESE PLANS SHALL BE READ IN CONJUNCTION WITH ALL APPROVED DRAWINGS AND SPECIFICATIONS PREPARED BY OTHER PROJECT CONSULTANTS.
11. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETRES (mm) AND ALL LEVELS ARE IN METERS (m). UNO, ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
12. IN CASE OF DOUBT OR DISCREPANCY REFER TO THE DESIGN ENGINEER AND SUPERINTENDENT FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMEDIATION WORKS.
13. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
14. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
15. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO ALL BUILDINGS ADJACENT THE WORKS IS NOT INTERRUPTED.
16. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
17. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
18. ALL VARIATIONS TO SPECIFIED PRODUCTS OR DESIGNS SHALL BE REFERRED TO THE DESIGN ENGINEER IN WRITING FOR APPROVAL.
19. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - A. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
 - B. ENSURING THAT NOTHING IS NEEDED TO THEM
 - C. PROHIBITING PAVING, GRADING, SEIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:
 - C.a. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
 - C.b. A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - C.c. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.
20. EPA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO REGARDING THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

1. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2003) AND AS/NZS 3500 3.2 (2003).

2. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC (CLASS SN4) WITH SOLVENT WELDED JOINTS.

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

4. ALL PIPES ARE TO BE LAID AT (min) 1.0% GRADE (UNO)

5. EQUIVALENT STRENGTH FRCP PIPES MAY BE USED TO DESIGN ENGINEER AND SUPERINTENDENTS APPROVAL.

6. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TYPE.

7. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.

8. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

9. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE

10. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.

11. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS. PROPOSED PIPE CLASS SHALL BE REVIEWED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION.

12. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

13. PRECAST PITS MAY BE USED SUBJECT TO WRITTEN APPROVAL BY THE DESIGN ENGINEER.

14. ALL PIPE PENETRATIONS (EXISTING, IN-SITU AND PRECAST) ARE TO BE FINISHED FLUSH WITH THE INTERNAL PIT WALL AND PROPERLY SEALED WITH CEMENT RENDER. MASS CONCRETE BENCHING IS TO BE INSTALLED TO MATCH THE OUTLET PIPE INVERT LEVEL AND A LOCKABLE HINGED GRATE AND FRAME WITH CONCRETE SURROUND INSTALLED U.N.O.

15. COVERS

A. USE HOT DIPPED GALVANISED GRATES AND CONCRETE FILLED COVERS WITH HINGES AND HOLD DOWN BOLTS COMPLYING WITH AS3996 AND OTHER RELEVANT AUSTRALIAN AND COUNCIL STANDARDS.

B. ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURED AS A UNIT.

C. ALL COVERS AND GRATES TO BE FITTED WITH POSITIVE COVER LIFTING KEYS.

D. OBTAIN SUPERINTENDENTS APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES. CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC PLUGS.

E. UNLESS DETAILLED OR SPECIFIED OTHERWISE COVERS AND GRATES TO BE CLASS "D" IN VEHICULAR PAVEMENTS AND CLASS "B" ELSEWHERE.

16. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH ARE 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER.

17. Ø100mm SUB-SOIL DRAINAGE LINES SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT (AT min. 1% LONGITUDINAL GRADE) AND PROVIDED IN THE FOLLOWING LOCATIONS:

A. ADJACENT ALL TRAFFICKED AND CARPARK PAVEMENT AREAS (BEHIND KERB);

B. ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS;

C. BEHIND RETAINING WALLS (IN ACCORDANCE WITH DRAWINGS);

D. BELOW ALL TRAFFICABLE DISH DRAINS;

E. ALL OTHER AREAS SHOWN ON THE DRAWINGS.

18. THE CONTRACTOR SHALL INSTALL FLUSHING POINTS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS, AT MAXIMUM 60m CENTRES AND AT ALL UPSTREAM ENDPOINTS.

19. PROVIDE 3.0m LENGTH OF Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC, TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO THE DRAINAGE PIT.

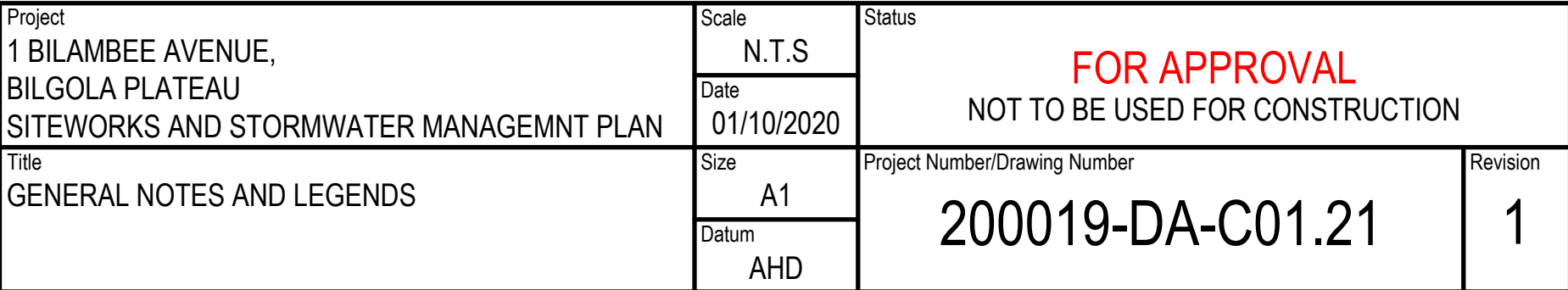
1) SUBSOIL TRENCHES SHALL BE BACKFILLED WITH SINGLE SIZED 10MM AGGREGATE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC. SUBSOIL TRENCHES BELOW TRAFFICABLE PAVEMENTS SHALL BE BACKFILLED WITH NO FINES CONCRETE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC. U.N.O

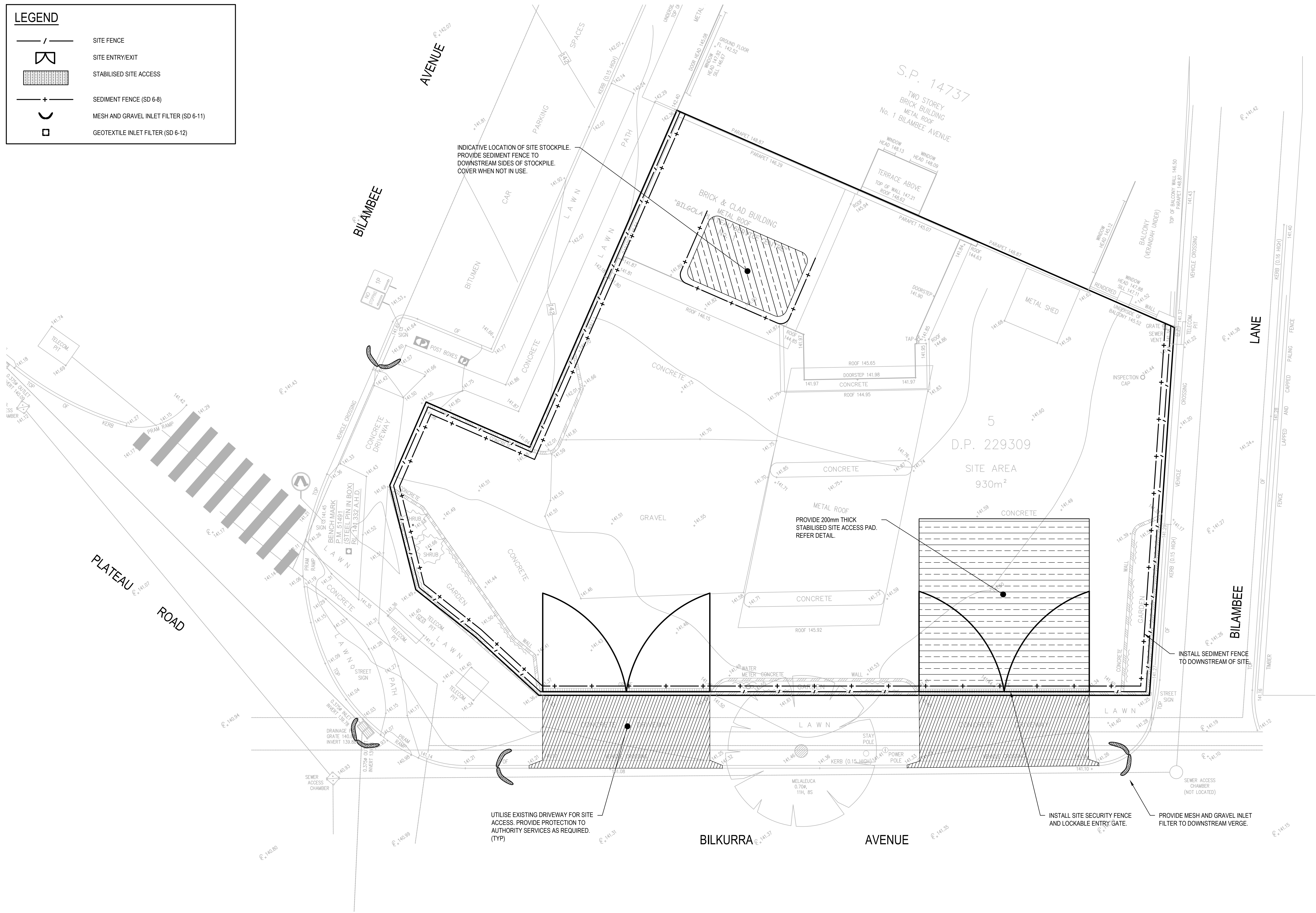
20. ALL RECTANGULAR HOLLOW SECTIONS (RHS) SPECIFIED AS STORMWATER CONDUITS TO BE HOT DIPPED GALVANISED AND HAVE (MINIMUM) 5mm WALL THICKNESS.

21. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.

22. ELECTRICAL PITS ARE TO DRAIN TO THE NEAREST STORMWATER PIT WITH VERMIN PROOF NON-RETURN FLAP VALVES AS REQUIRED. THE CONTRACTOR IS TO CONFIRM WITH THE ELECTRICAL DESIGNER AS PART OF THE TENDER.

23. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION, ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
23. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
24. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
25. ANY VARIATION TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR APPROVAL. DOWN PITS.

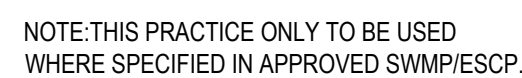




Status	
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
Project Number/Drawing Number	Revision
200019-DA-C02.01	1



- ### STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

- MESH AND GRAVEL INLET FILTER (SD 6-11)



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 10-YEAR EVENT.
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 2.5 METRE 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)



1. 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 1 METRE 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)



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 3 METRES WIDE
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)

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Project 1 BILAMBEE AVENUE, BILGOLA PLATEAU SITEWORKS AND STORMWATER MANAGEMNT PLAN	Scale N.T.S Date 01/10/2020	Status <div style="text-align: center;"> FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION </div>	
Title EROSION AND SEDIMENTATION CONTROL DETAILS	Size A1 Datum AHD	Project Number/Drawing Number <div style="text-align: center; font-size: 24px;"> 200019-DA-C02.11 </div>	Revision <div style="text-align: center; font-size: 24px;"> 1 </div>

The diagram illustrates a stormwater pipe layout with the following components and symbols:

- PIPE INLET PIT/JUNCTION PIT:** Represented by two square symbols. The first is a simple square with internal horizontal lines. The second is a square with an 'X' inside, indicating a junction.
- SURFACE INLET PIT/JUNCTION PIT:** Represented by a square symbol with an 'X' inside.
- PIPE SIZE:** Indicated by the text "Ø150" above a horizontal blue line representing the pipe.
- STORMWATER DRAINAGE LINE FLOW DIRECTION:** Indicated by a blue line with arrows pointing to the right.
- SUSPENDED STORMWATER PIPE DOWNPIPE:** Represented by a thick black dashed line.
- VERTICAL PIPE / DOWNPIPE:** Represented by a vertical line with a circle at the top and a small circle at the bottom.
- FINISHED FLOOR LEVEL:** Represented by a horizontal line with a small circle above it.
- FINISHED SURFACE LEVEL:** Represented by a horizontal line with a small circle above it.
- DP (Downpipe):** Represented by a small circle.
- VP/DP (Vertical Pipe/Downpipe):** Represented by a small circle.
- F1 134.45:** A label in a box indicating the finished floor level.

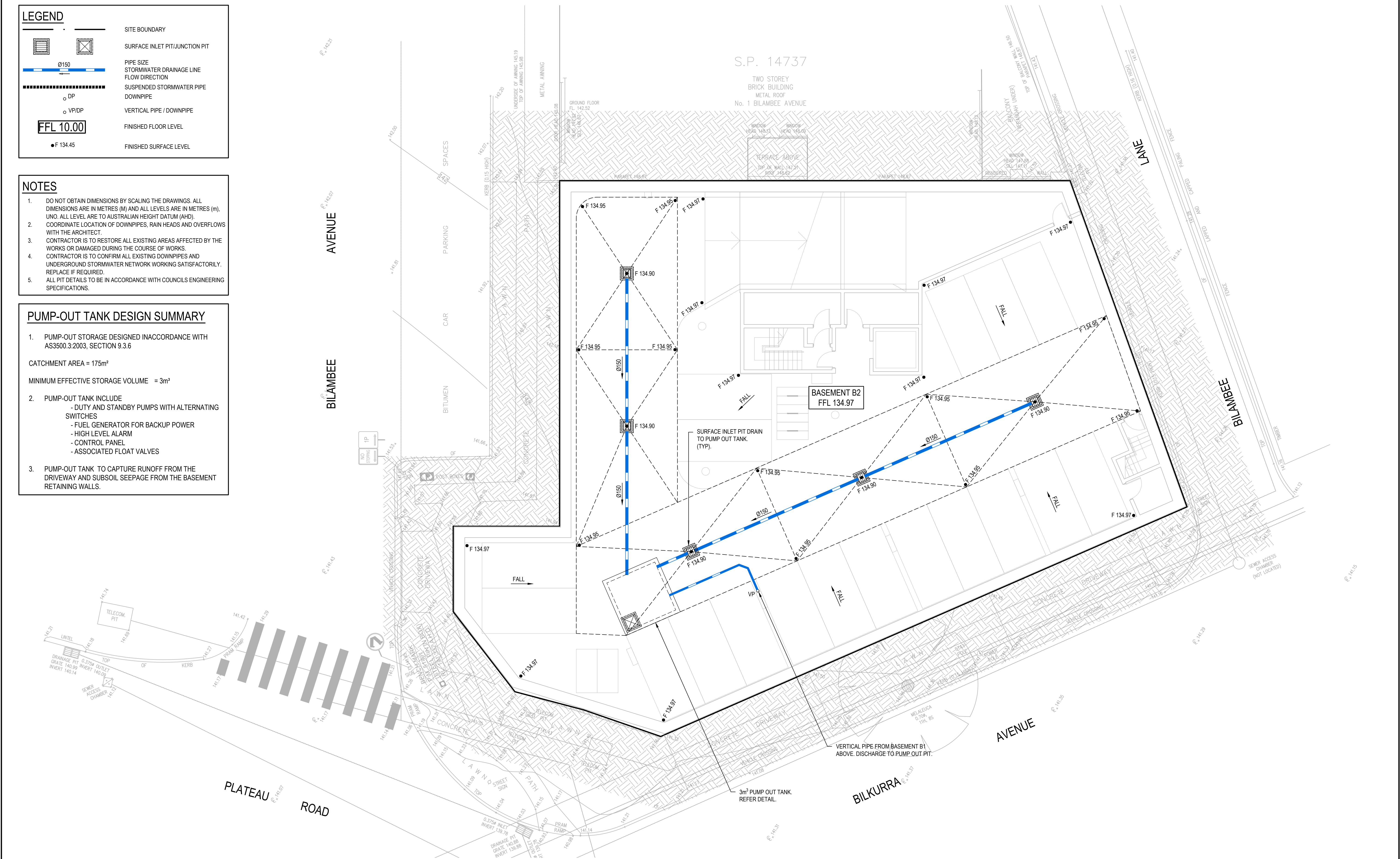
1. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN METRES (M) AND ALL LEVELS ARE IN METRES (m). UNO. ALL LEVEL ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
2. COORDINATE LOCATION OF DOWNPIPES, RAIN HEADS AND OVERFLOWS WITH THE ARCHITECT.
3. CONTRACTOR IS TO RESTORE ALL EXISTING AREAS AFFECTED BY THE WORKS OR DAMAGED DURING THE COURSE OF WORKS.
4. CONTRACTOR IS TO CONFIRM ALL EXISTING DOWNPIPES AND UNDERGROUND STORMWATER NETWORK WORKING SATISFACTORILY. REPLACE IF REQUIRED.
5. ALL PIT DETAILS TO BE IN ACCORDANCE WITH COUNCILS ENGINEERING SPECIFICATIONS.

1. PUMP-OUT STORAGE DESIGNED IN ACCORDANCE WITH AS3500.3:2003, SECTION 9.3.6

CATCHMENT AREA = 175m²

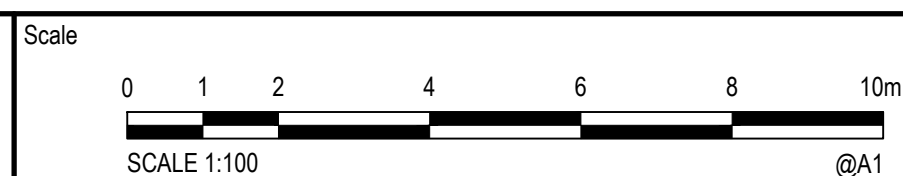
MINIMUM EFFECTIVE STORAGE VOLUME = 3m³

2. PUMP-OUT TANK INCLUDE
 - DUTY AND STANDBY PUMPS WITH ALTERNATING SWITCHES
 - FUEL GENERATOR FOR BACKUP POWER
 - HIGH LEVEL ALARM
 - CONTROL PANEL
 - ASSOCIATED FLOAT VALVES
3. PUMP-OUT TANK TO CAPTURE RUNOFF FROM THE DRIVEWAY AND SUBSOIL SEEPAGE FROM THE BASEMENT RETAINING WALLS.

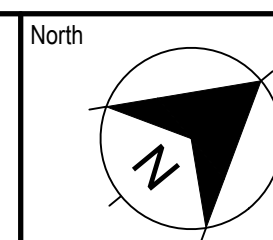
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Client

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Project	1 BILAMBEE AVENUE, BILGOLA PLATEAU SITEWORKS AND STORMWATER MANAGEMNT PLAN
Title	SITEWORKS AND STORMWATER MANAGEMENT PLAN BASEMENT LEVEL 2

Scale	1:100
Date	01/10/2020
Size	A1
Datum	AHD

Status	
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
Project Number/Drawing Number	Revision
200019-DA-C03.01	1

LEGEND

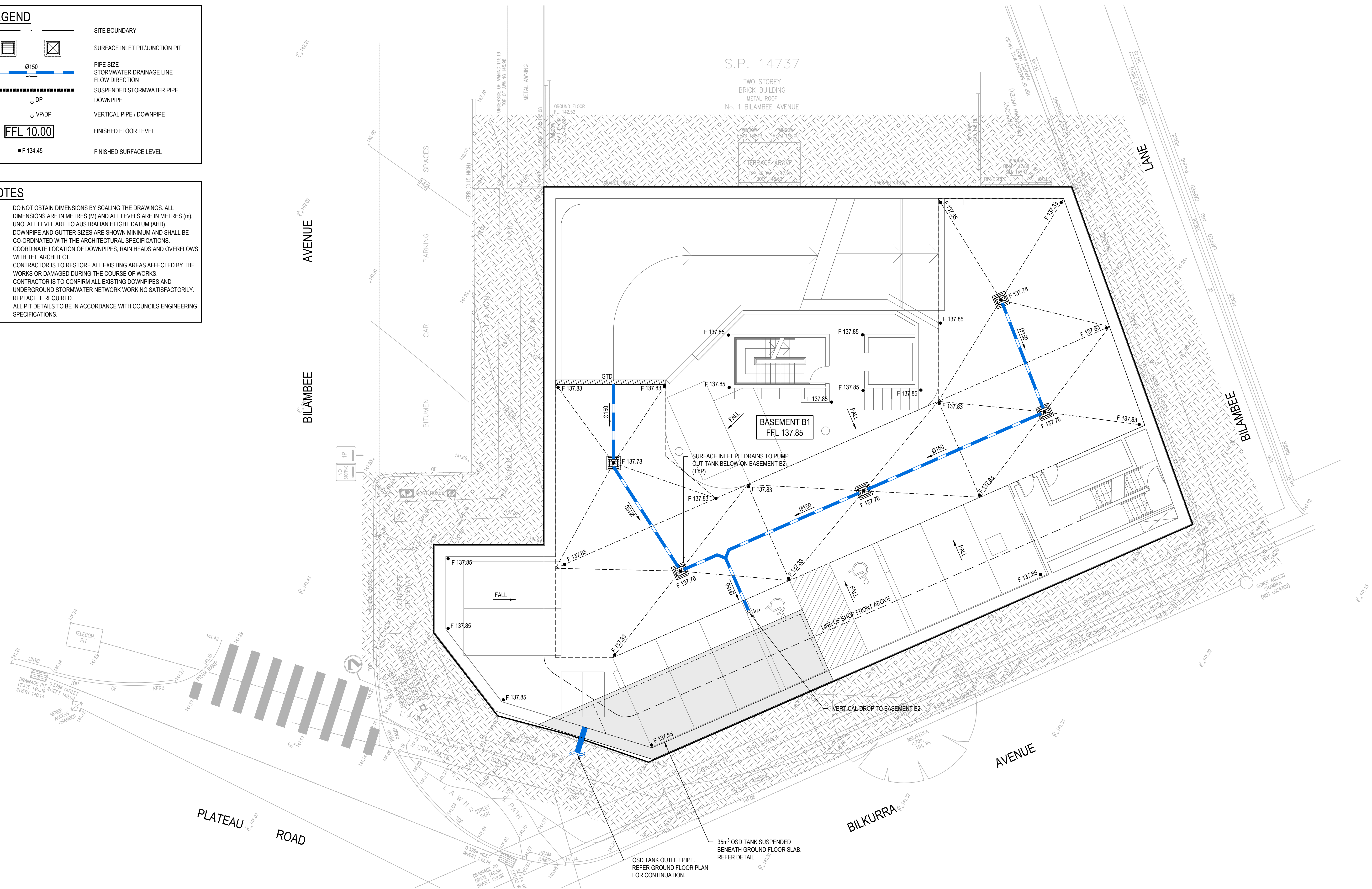
The legend defines the following symbols and their corresponding descriptions:

- SITE BOUNDARY**: Represented by a solid black line.
- SURFACE INLET PIT/JUNCTION PIT**: Represented by a square with a double border and an 'X' inside.
- PIPE SIZE**: Represented by a horizontal line with alternating blue and white segments.
- STORMWATER DRAINAGE LINE FLOW DIRECTION**: Represented by a horizontal line with a small arrow pointing to the right.
- SUSPENDED STORMWATER PIPE DOWNPIPE**: Represented by a horizontal line with a dashed black pattern.
- VERTICAL PIPE / DOWNPIPE**: Represented by a circle with a dot in the center.
- FINISHED FLOOR LEVEL**: Represented by a square with a double border containing the text 'FFL 10.00'.
- FINISHED SURFACE LEVEL**: Represented by a circle with a dot in the center.

Additional symbols shown include a square with a double border (likely for manholes or access points) and a circle with a dot (likely for spot heights or elevations).

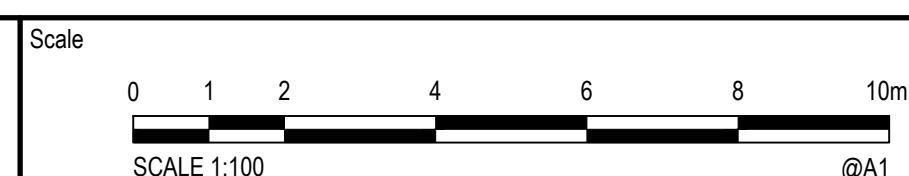
NOTES

1. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN METRES (M) AND ALL LEVELS ARE IN METRES (m), UNO. ALL LEVEL ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
2. DOWNPIPE AND GUTTER SIZES ARE SHOWN MINIMUM AND SHALL BE CO-ORDINATED WITH THE ARCHITECTURAL SPECIFICATIONS.
3. COORDINATE LOCATION OF DOWNPIPES, RAIN HEADS AND OVERFLOWS WITH THE ARCHITECT.
4. CONTRACTOR IS TO RESTORE ALL EXISTING AREAS AFFECTED BY THE WORKS OR DAMAGED DURING THE COURSE OF WORKS.
5. CONTRACTOR IS TO CONFIRM ALL EXISTING DOWNPIPES AND UNDERGROUND STORMWATER NETWORK WORKING SATISFACTORILY. REPLACE IF REQUIRED.
6. ALL PIT DETAILS TO BE IN ACCORDANCE WITH COUNCILS ENGINEERING SPECIFICATIONS.

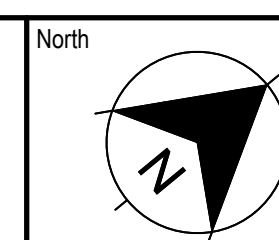
[illegible]

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Project	1 BILAMBEE AVENUE, BILGOLA PLATEAU SITEWORKS AND STORMWATER MANAGEMNT PLAN
Title	SITEWORKS AND STORMWATER MANAGEMENT PLAN
	BASEMENT LEVEL 1

N	Scale	1:100
	Date	01/10/2020
	Size	A1
	Datum	AHD

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
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Project Number/Drawing Number	200019-DA-C03.02
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1

Figure 10.1 shows the symbols for stormwater infrastructure. The legend includes:

- SURFACE INLET PIT/JUNCTION PIT**: Represented by a square with a grid pattern.
- PIPE SIZE**: Represented by a circle with a cross inside.
- STORMWATER DRAINAGE LINE FLOW DIRECTION**: Represented by a line with arrows pointing in the direction of flow.
- SUSPENDED STORMWATER PIPE**: Represented by a dashed line.
- DOWNPIPE**: Represented by a solid line.
- VERTICAL PIPE / DOWNPIPE**: Represented by a circle with a cross inside.
- FINISHED FLOOR LEVEL**: Represented by a horizontal line with a cross.
- FINISHED SURFACE LEVEL**: Represented by a horizontal line with a cross.

The plan view diagram shows a stormwater drainage line with a suspended pipe and a downpipe. The finished floor level (FFL) is 10.00, and the finished surface level (F) is 134.45.

1. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN METRES (M) AND ALL LEVELS ARE IN METRES (m), UNO. ALL LEVEL ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
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6. ALL PIT DETAILS TO BE IN ACCORDANCE WITH COUNCILS ENGINEERING SPECIFICATIONS.

- SITE AREA = 930m^2
- POST-DEVELOPMENT IMPERVIOUS AREA = 930m^2
- AREA BYPASSING OSD = 0m^2

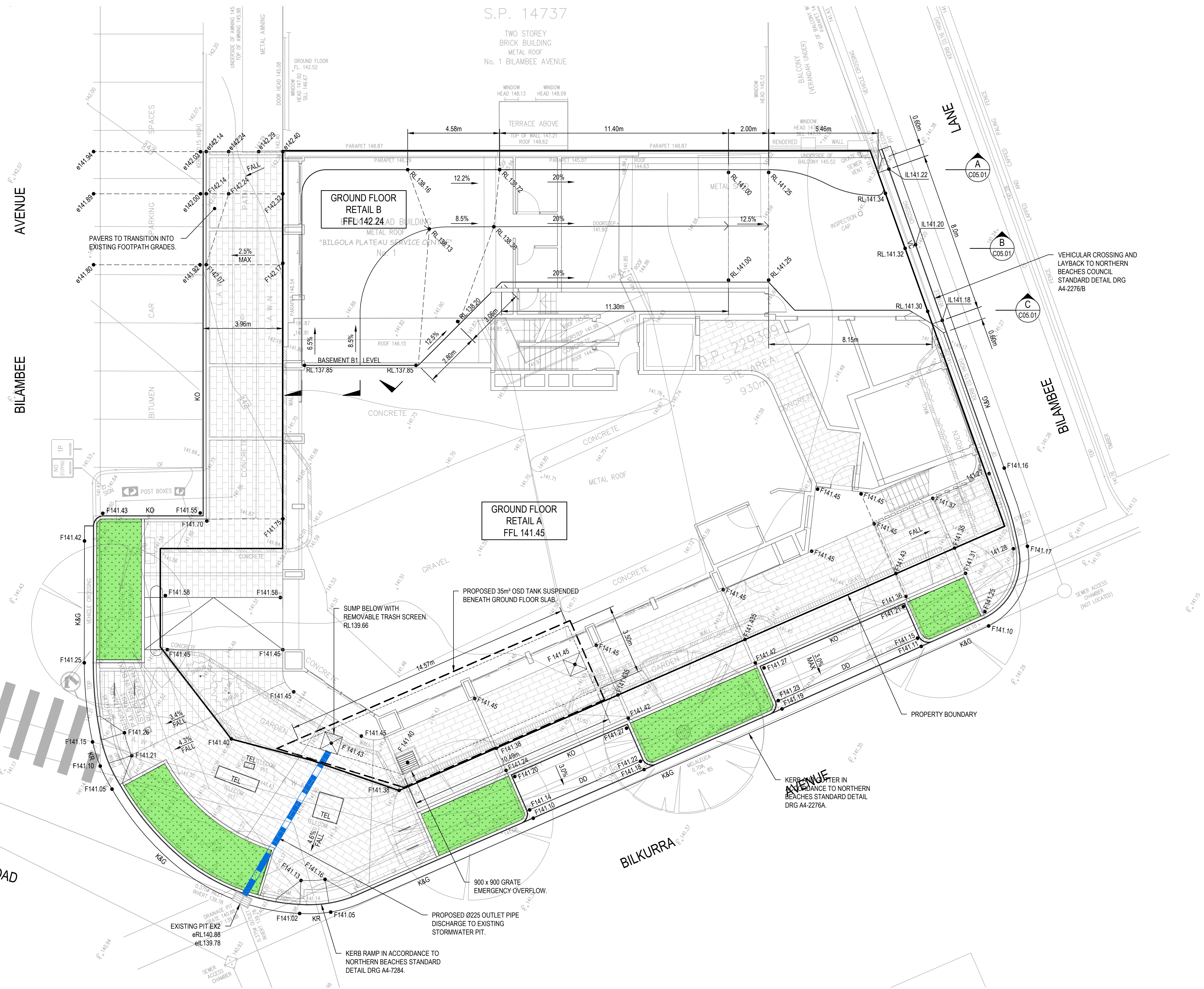
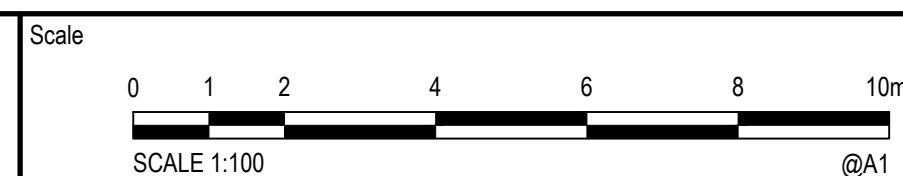
OSD CALCULATED USING DRAINS WITH ARR 1987 PROCEDURE.

- THE POST-DEVELOPMENT RUNOFF FOR 5, 20 AND 100 YEAR ARI STORM EVENTS MUST BE RESTRICTED TO THE PRE-DEVELOPMENT DISCHARGE RATES.
- PRE-DEVELOPMENT RATES ARE CALCULATED ON THE MAXIMUM ALLOWABLE IMPERIOUS FRACTION OF 0%.

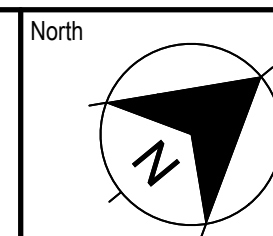
STORM	PRE-DEVELOPMENT FLOWS (L/S)	POST-DEVELOPMENT FLOWS (L/S)
5YR	18	18
20YR	29	21
100YR	39	26

- OSD VOLUME = 35m^3 (MIN)
- NO WATER QUALITY TREATMENT REQUIRED

THE STORMWATER MANAGEMENT PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH WARRINGAH COUNCIL ON-SITE STORMWATER DETENTION TECHNICAL SPECIFICATION, PL 850 WATER MANAGEMENT POLICY AND NORTHERN BEACHES COUNCIL WSDU MODELLING GUIDELINES.

[illegible]

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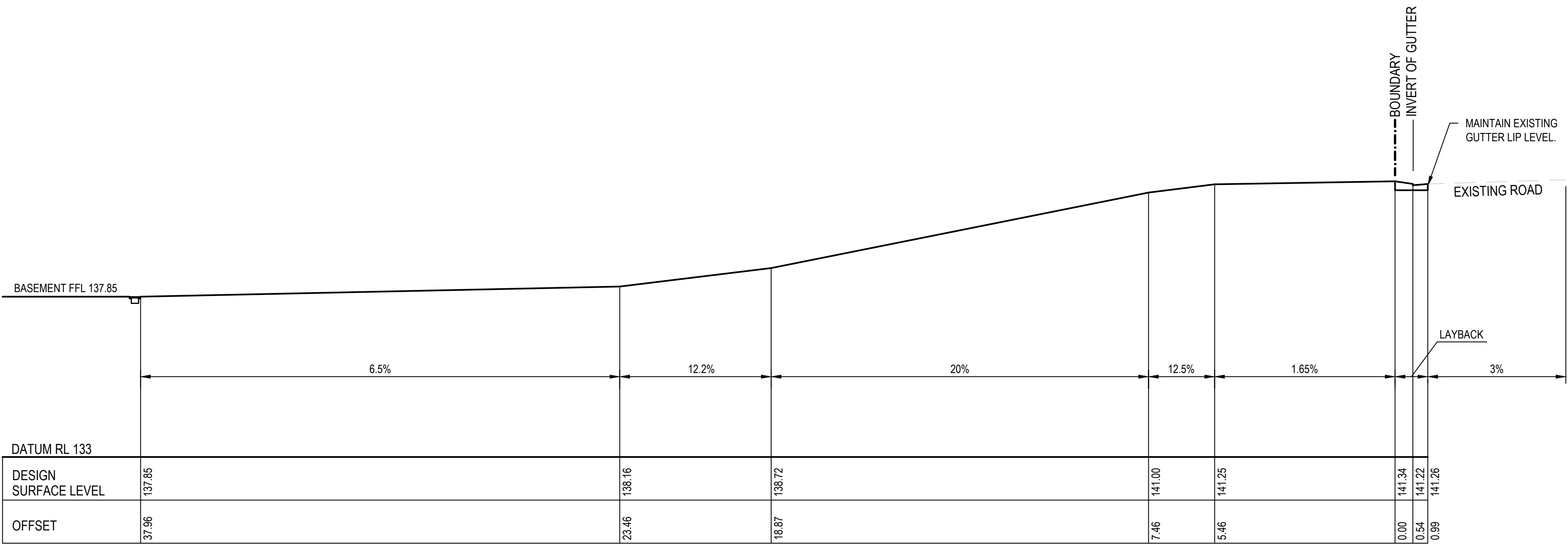
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Project	1 BILAMBEE AVENUE, BILGOLA PLATEAU SITEWORKS AND STORMWATER MANAGEMNT PLAN
Title	SITEWORKS AND STORMWATER MANAGEMENT PLAN
	GROUND FLOOR LEVEL

Scale 1:100	Status		
Date 01/10/2020	<p style="text-align: center;">FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</p>		
Size A1	Project Number/Drawing Number	Revision	
Datum AHD	200019-DA-C03.03	1	

NOTES

1. FINAL VERGE LEVELS TO BE DETERMINED BY COUNCIL.

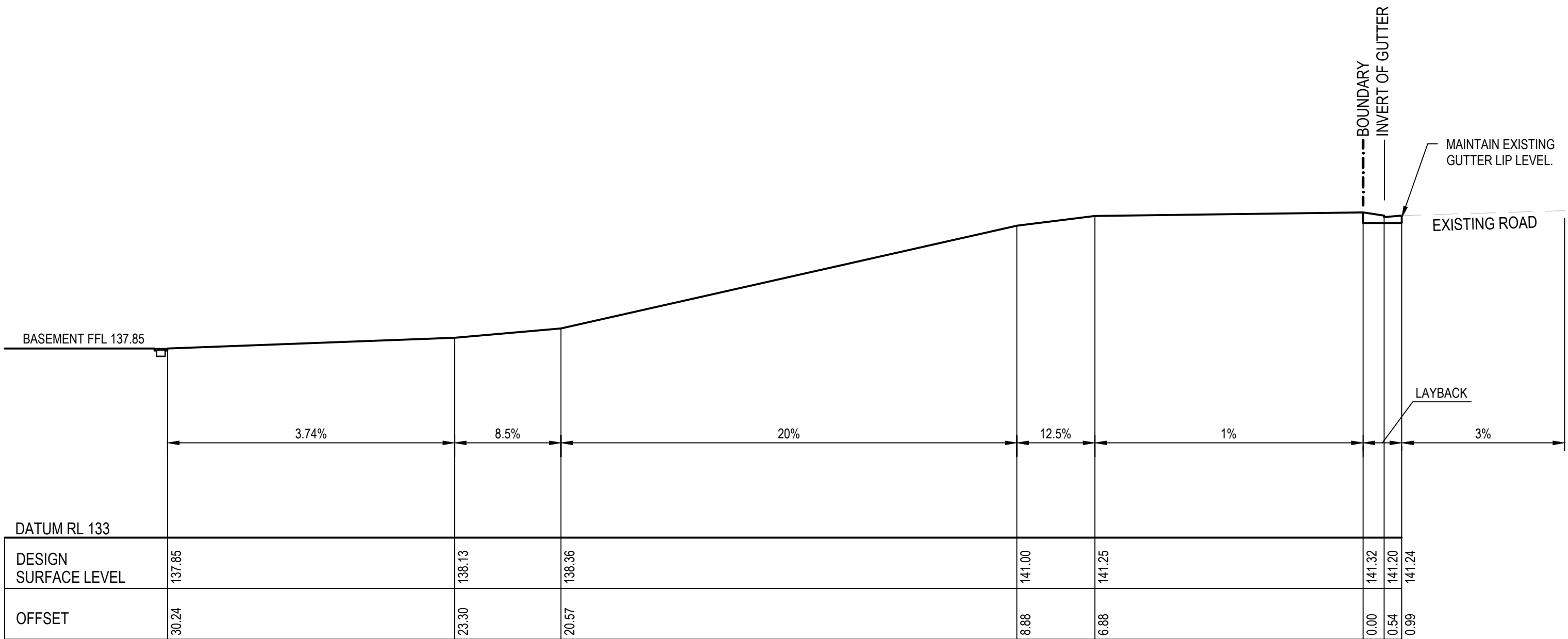


DRIVEWAY LONGITUDINAL SECTION

SCALE 1:100

A

C03.03

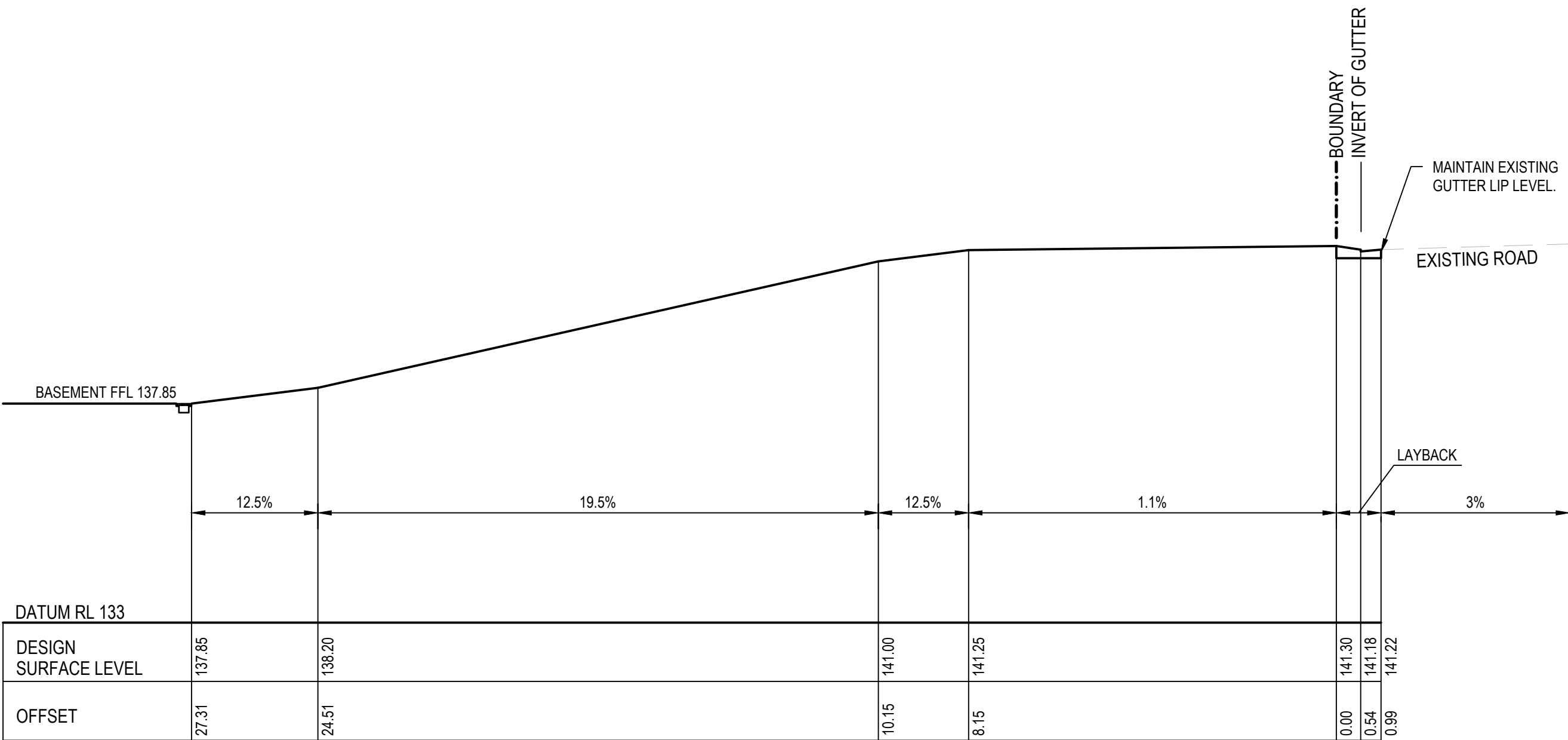


DRIVEWAY LONGITUDINAL SECTION

SCALE 1:100

B

C03.03



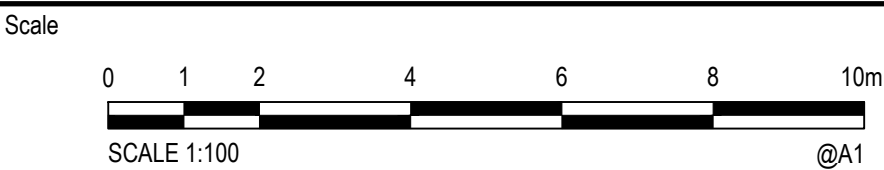
DRIVEWAY LONGITUDINAL SECTION

SCALE 1:100

C

C03.03

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
1	1/10/2020	ISSUED FOR DEVELOPMENT APPLICATION	RT	RT	AD	AD

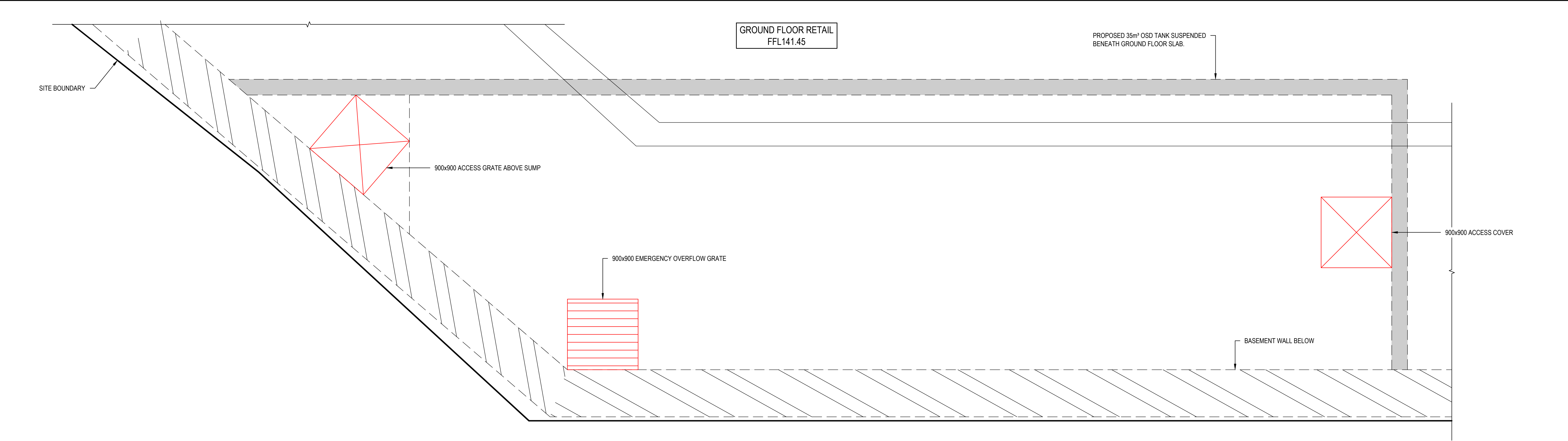


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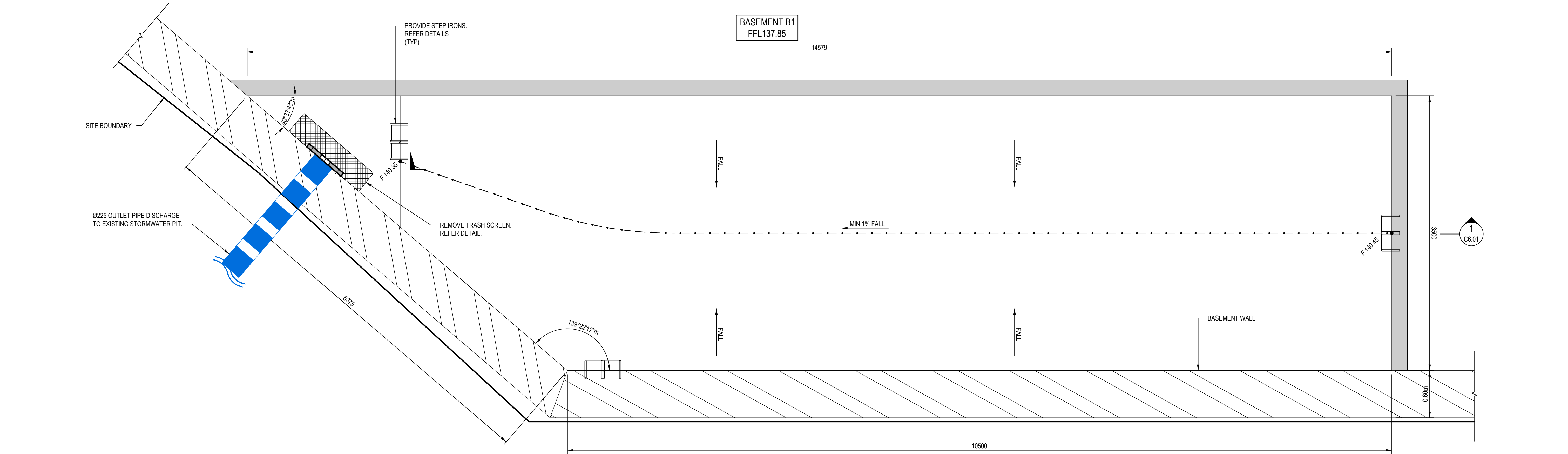
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Project 1 BILAMBEE AVENUE, BILGOLA PLATEAU SITEWORKS AND STORMWATER MANAGEMNT PLAN	Scale AS SHOWN Date 01/10/2020
Title DRIVEWAY LONGITUDINAL SECTION	Size A1 Datum AHD

Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	Project Number/Drawing Number 200019-DA-C05.01	Revision 1
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OSD TANK - GROUND FLOOR PLAN
SCALE 1:25



OSD TANK - BASEMENT B1 LEVEL
SCALE 1:25

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
1	1/10/2020	ISSUED FOR DEVELOPMENT APPLICATION	RT	RT	AD	AD

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Scale

0 0.5 1 1.5 2 2.5m

SCALE 1:25 @A1

North

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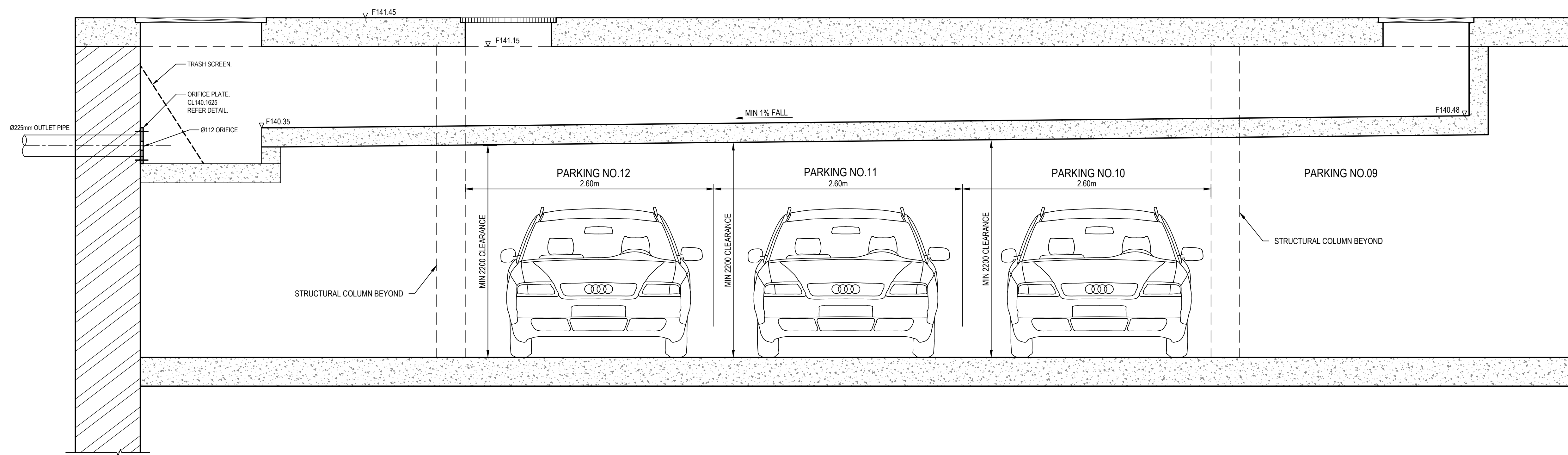
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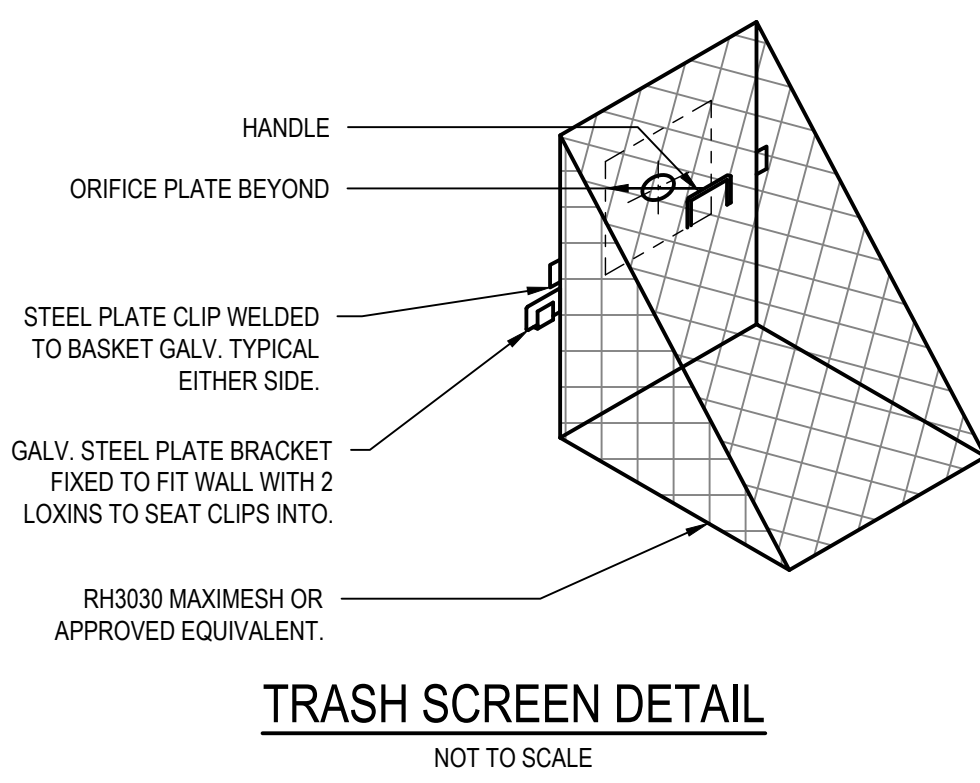
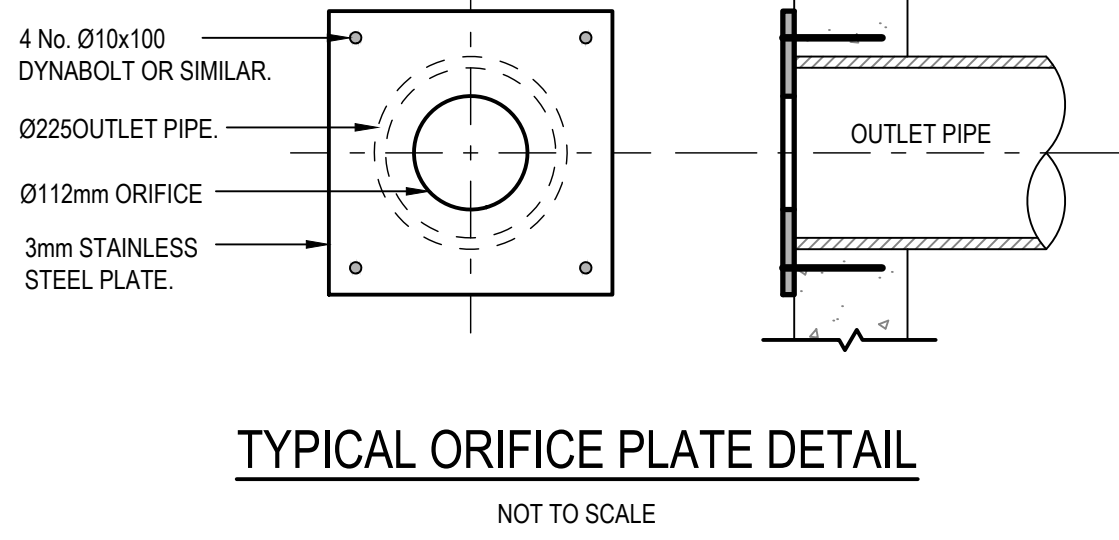
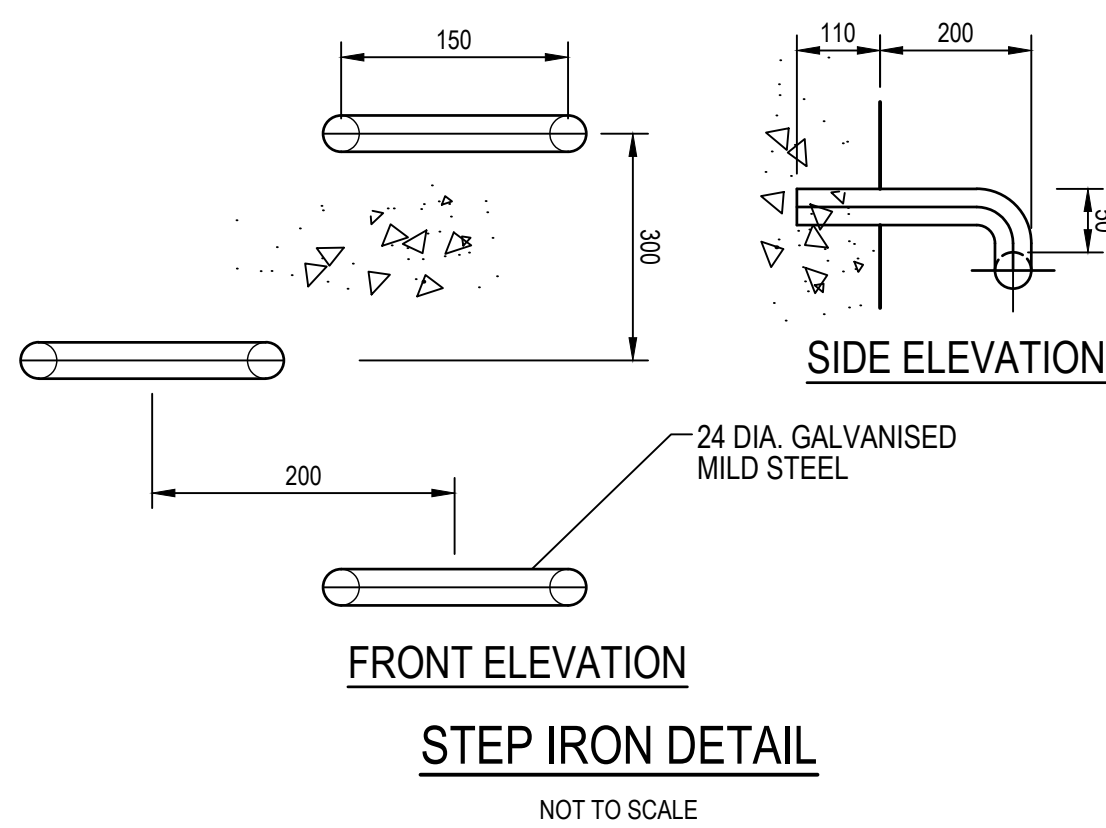
Project
1 BILAMBEE AVENUE,
BILGOLA PLATEAU
SITWORKS AND STORMWATER MANAGEMNT PLAN

Title
DETAILS - SHEET 01

Scale 1:25	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Date 01/10/2020	Project Number/Drawing Number 200019-DA-C06.01
Size A1	Revision 1
Datum AHD	



SECTION 1
SCALE 1:25
C6.01



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
1	1/10/2020	ISSUED FOR DEVELOPMENT APPLICATION	RT	RT	AD	AD



Scale 0 200 400 600 800 1000mm
SCALE 1:10 @A1
0 0.5 1 1.5 2 2.5m
SCALE 1:25 @A1

North

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Project
1 BILAMBEE AVENUE,
BILGOLA PLATEAU
SITWORKS AND STORMWATER MANAGEMNT PLAN

Title
DETAILS - SHEET 02

Scale AS SHOWN	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
Date 01/10/2020		
Size A1		
Datum AHD	Project Number/Drawing Number 200019-DA-C06.02	Revision 1