ST. FRANCIS CATHOLIC COLLEGE

130-160 JARDINE DRIVE, EDMONDSON PARK NSW
INTERNAL CIVIL ENGINEERING WORKS
DA - LANDSCAPING WORKS

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY. LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND LIVERPOOL CITY COUNCIL'S REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

EXISTING SERVICES & FEATURES

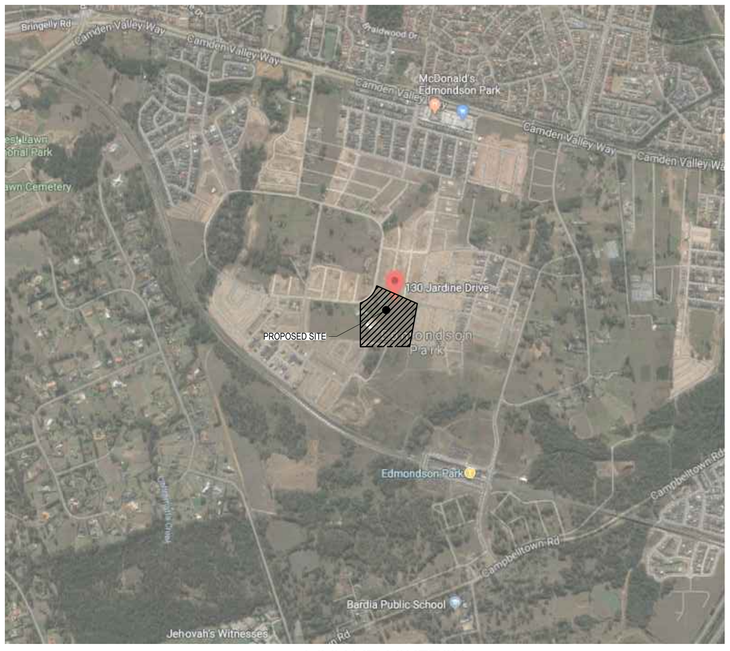
- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING 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.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH 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.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

SUBGRADE PREPARATION

1. CLEARING OF SITE VEGETATION AND STRIPPING OF ANY IN-SITU TOPSOIL/ ORGANIC LAYERS TO EXPOSE THE NATURAL CLAY. THE TOPSOIL MAY BE REUSED A MUCH AS POSSIBLE ON SITE IN LANDSCAPING AND ANY SURPLUS TOPSOIL WOULD NEED TO BE DISPOSED OF OFF SITE.
2. EXCAVATION OF IN-SITU FILL WHERE ENCOUNTERED TO EXPOSE NATURAL RESIDUAL SOIL. THE IN-SITU FILL SHOULD BE ASSESSED BY A SUITABLY QUALIFIED NATA ACCREDITED LABORATORY TO ENSURE SUITABILITY OF THE MATERIAL FOR REUSE AS STRUCTURAL FILL ON SITE. SUITABLE STRUCTURAL FILL SHOULD CONSIST OF COMPACTABLE CLAYS, SHALE AND SANDSTONE FREE OF DELETERIOUS MATERIAL (E.G. ORGANIC MATERIAL AND VEGETATION), SILT AND LARGE OVERSIZED MATERIAL WITH PARTICLE SIZE GREATER THAN 75mm.
3. THE AREA EXPOSED BY THE EXCAVATION SHOULD BE PROOF ROLLED USING A MINIMUM 8 TONNE VIBRATION ROLLER TO IDENTIFY ANY SOFT OR HEAVING AREAS. ANY SOFT OR HEAVING AREAS OBSERVED DURING PROOF ROLLING SHOULD BE EXCAVATED AND RE-COMPACTED TO A MINIMUM 95% STANDARD MAXIMUM DRY DENSITY AT 2% OPTIMUM MOISTURE.
4. ALL STRUCTURAL FILL BENEATH BUILDING AND PAVEMENTS SHOULD BE CONTROLLED AND COMPACTED IN LAYERS NOT EXCEEDING 250mm THICKNESS COMPACTED TO BE ABOVE COMPACTION LEVEL. ANY IMPORTED FILL SHOULD BE OF GOOD QUALITY MATERIAL SUCH AS RIPPED SHALE OR SANDSTONE WITH A MAXIMUM PARTICLE SIZE OF 75mm.
5. EARTHWORKS SHOULD BE CLOSELY MONITORED BY A GEOTECHNICAL CONSULTANT AND SHOULD INCLUDE FIELD DENSITY TESTING OF A FILL AT AN APPROPRIATE FREQUENCY AND LEVEL OF SUPERVISION AS DETAILED IN AS3798 - 2007 (REFERENCED 9). FILL PLACED AND COMPACTED IN ACCORDANCE WITH AS3798 MAY BE CLASSIFIED AS "CONTROLLED" FILL.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.



LOCALITY SKETCH

SCALE: NTS

DRAWING SCHEDULE	
18E34_D3_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
18E34_D3_C100	OVERALL SITE PLAN
18E34_D3_C101	SITE DETAIL PLAN - SHEET 1 OF 2
18E34_D3_C102	SITE DETAIL PLAN - SHEET 2 OF 2
18E34_D3_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
18E34_D3_C201	OSD PLAN AND SECTIONS
18E34_D3_C202	OSD SECTIONS AND DETAILS
18E34_D3_C203	OSD CALCULATIONS AND MUSIC MODELLING RESULTS
18E34_D3_C250	STORMWATER CATCHMENT PLAN
18E34_D3_SE01	SEDIMENT AND EROSION CONTROL PLAN
18E34_D3_SE02	SEDIMENT AND EROSION CONTROL DETAILS

SUBSOIL DRAINAGE NOTES

1. GENERAL PROVIDE SUBSOIL DRAINS TO INTERCEPT GROUNDWATER SEEPAGE AND PREVENT WATER BUILD-UP BEHIND WALLS AND UNDER FLOORS AND PAVEMENT. CONNECT SUBSOIL TO SURFACE DRAINS OR TO THE STORMWATER DRAINAGE SYSTEM AS APPLICABLE.
2. PIPE DEPTH:
PROVIDE THE FOLLOWING MINIMUM CLEAR DEPTH, MEASURED TO THE CROWN OF THE PIPE, WHERE THE PIPE PASSES BELOW THE FOLLOWING ELEMENTS:
   - 100mm BELOW FORMATION LEVEL OF THE PAVEMENT, KERB OR CHANNEL.
   - 100mm BELOW THE AVERAGE GRADIENT OF THE BOTTOM OF FOOTINGS.
3. JOINTING:
AT JUNCTIONS OF SUBSOIL PIPES PROVIDE TEES, COUPLINGS OR ADAPTORS TO AS2439.1.
4. TRENCH WIDTH MINIMUM 300mm
5. PIPE UNDERLAY
GENERAL: GRADE THE TRENCH FLOOR EVENLY TO THE GRADIENT OF THE PIPELINE. IF THE TRENCH FLOOR IS ROCK, CORRECT ANY IRREGULARITIES WITH COMPACTED BEDDING MATERIAL. BED PIPING ON A CONTINUOUS UNDERLAY OF BEDDING MATERIAL, AT LEAST 75mm THICK AFTER COMPACTION. LAY THE PIPE WITH ONE LINE OF PERFORATIONS AT THE BOTTOM.

   CHASES: IF NECESSARY TO PREVENT PROJECTIONS SUCH AS SOCKETS AND FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY.
6. PIPE SURROUNDS:
GENERAL: PLACE THE MATERIAL IN THE PIPE SURROUND IN LAYERS SMALLER THAN OR EQUAL TO 200mm LOOSE THICKNESS, AND COMPACT WITHOUT DAMAGING OR DISPLACING PIPING.
DEPTH OF OVERLAY: TO THE UNDERSIDE OF THE BASE OF OVERLYING STRUCTURES SUCH AS PAVEMENTS, SLABS AND CHANNELS. TO WITHIN 150mm OF THE FINISHED SURFACE OF UNPAVED OR LANDSCAPED AREAS.
7. FILTER SOCKS PROVIDE POLYESTER PERMEABLE SOCKS CAPABLE OF RETAINING PARTICLES OF 0.25mm SIZES. SECURELY FIT OF JOIN THE SOCK AT EACH JOINT.

SITEWORKS NOTES

- DATUM : A.H.D.
- ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON THE SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH 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.
- WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS
OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY:
LAND TEAM AUSTRALIA PTY LTD
DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR TENDER ONLY	JK	LV	17.01.2020
01	ISSUED FOR COORDINATION	JK	LV	11.11.2019

Client: CATHOLIC EDUCATION DIOCESE OF WOLLONGONG
Architect: JDH ARCHITECTS

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79 Victoria Avenue
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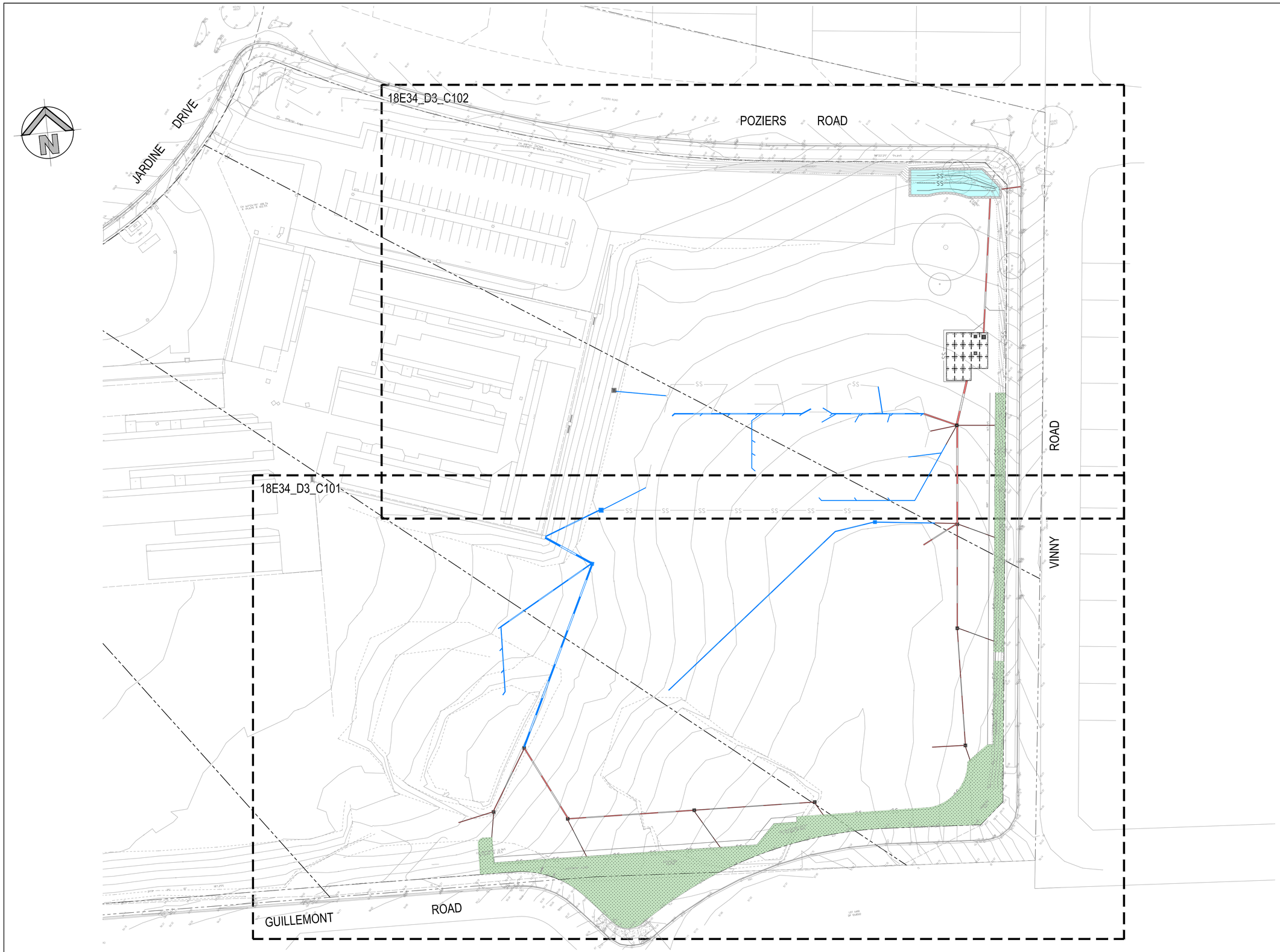
Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW
Title: COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	NTS

Drawing number: 18E34_D3_C000
Revision: 02



0 10 20 30 40 50m

10 8 6 4 2

SCALE 1:500

GENERAL ARRANGEMENT PLAN

SCALE: 1:500

NOTE:

CONTRACTOR TO INVESTIGATE PRESENCE OF EXISTING UTILITIES, SIZE AND DEPTH OF ALL IN-GROUND UTILITIES, PRIOR TO CONSTRUCTION. SERVICES SHOWN ON THIS DRAWING DEPICTED FROM SERVICES SEARCH PLANS AND CANNOT BE GUARANTEED.

NOTE:

ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED PIPES CONNECTEDTO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

NOTE:

SERVICES SHOWN ON THIS DRAWING ARE DEPICTED FROM SERVICES SEARCH PLANS AND CAN NOT BE GUARANTEED. THE EXACT DEPTH AND LOCATION OF ALL IN-GROUND UTILITIES TO BE DETERMINED BY POT HOLING OR CABLE SEARCH.

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY:
LAND TEAM AUSTRALIA PTY LTD

DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	JK	LV	20.01.2020
02	ISSUED FOR DA ONLY	JK	LV	17.01.2020
01	ISSUED FOR COORDINATION	JK	LV	11.11.2019

Client: CATHOLIC EDUCATION DIOCESE OF WOLLONGONG

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Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: GENERAL ARRANGEMENT PLAN

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	1:500 @ A1

Drawing number: 18E34_D3_C100

Revision: 03

FOR CONTINUATION REFER TO DWG 18E34_D2_C102

LEGEND

- PROPOSED BOUNDARY
- 150mm IK — PROPOSED 150mm INTEGRAL KERB
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- FUTURE STORMWATER PIPE (LANDSCAPING STAGE)
- PROPOSED SURFACE INLET PITS
- PROPOSED JUNCTION PITS
- EXISTING SURFACE INLET PITS
- 67 — EXISTING CONTOURS
- 65.00 — PROPOSED CONTOURS
- SS SS — PROPOSED SUBSOIL LINE

PIPE STUB FOR ROOF DRAINAGE

Ø150 PIPE STUB FOR ROOF DRAINAGE

Ø225

Ø100

IL65.04
Ø150
30m
2.5%
IL64.29

IL64.48
Ø225
32m
1.1%
IL64.14

IL65.028
Ø150
32.5m
1.5%
IL64.54

Ø150 PIPE STUB FOR ROOF DRAINAGE

Ø150

IL65.15
Ø150
28.9m
1%
IL64.86

IL64.475
Ø225
36.9m
1%
IL64.106

IL64.08
Ø300
20.7m
1%
IL63.873

IL64.05
Ø150
17.8m
1%
IL63.84

150mm IK

IL64.30
Ø150
13.5m
1%
IL64.165

RL65.00

RL65.20

RL65.80

Ø100

SS

EMBANKMENT

ROAD
VINNY

ROAD
GUILLEMONT

LANDSCAPE DETAILS BY LANDSCAPE ARCHITECT

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

SITE DETAIL PLAN
SCALE: 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY:
LAND TEAM AUSTRALIA PTY LTD
DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	JK	LV	16.04.2020
03	ISSUED FOR DA ONLY	JK	LV	20.01.2020
02	ISSUED FOR DA ONLY	JK	LV	17.01.2020
01	ISSUED FOR COORDINATION	JK	LV	11.11.2019

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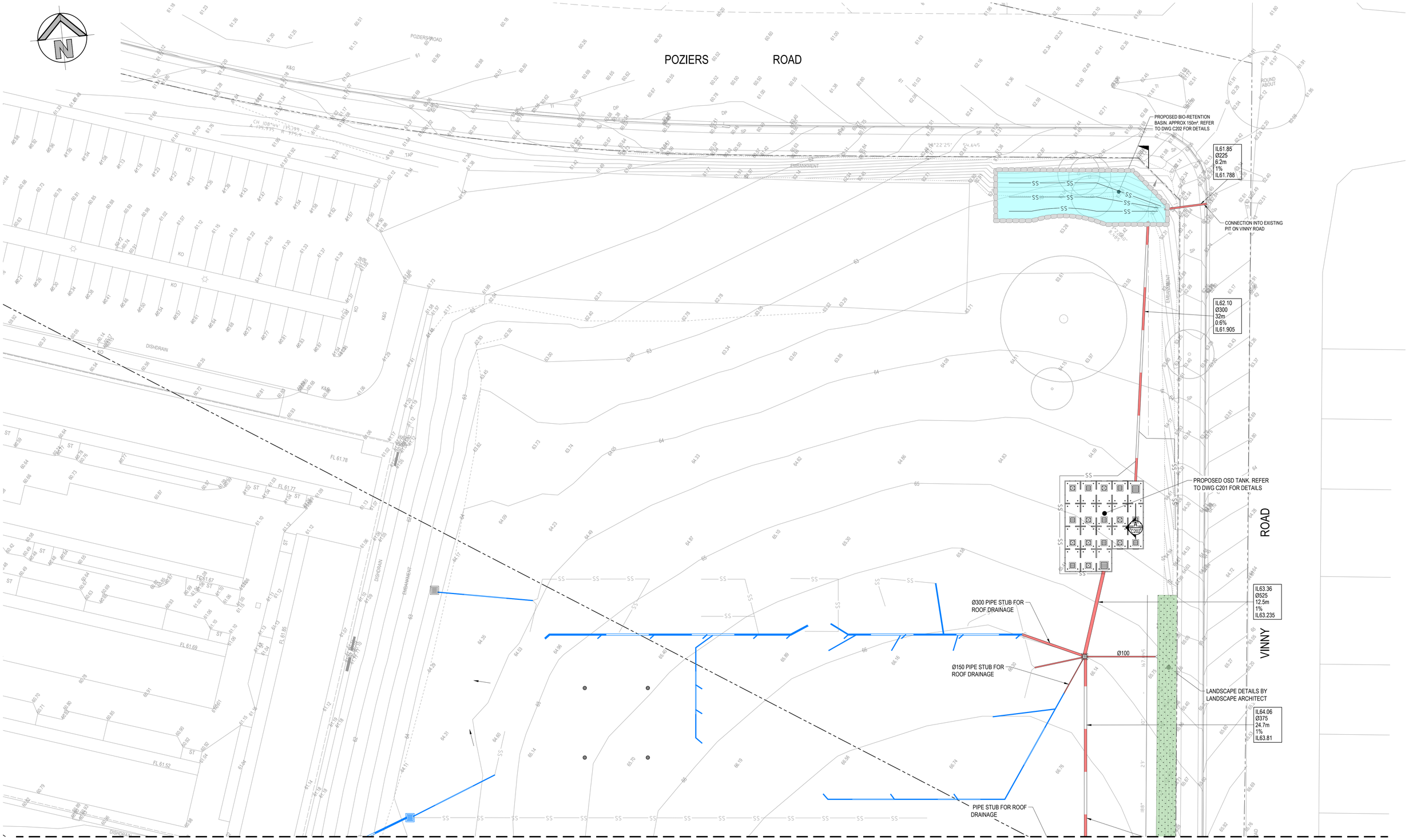
Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: SITE DETAIL PLAN - SHEET 1 OF 2

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	1:250 @ A1

Drawing number: 18E34_D3_C101
Revision: 04



FOR CONTINUATION REFER TO DWG 18E34_D2_C101

SITE DETAIL PLAN

SCALE: 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY:

LAND TEAM AUSTRALIA PTY LTD

DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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02	ISSUED FOR DA ONLY	JK	LV	17.01.2020
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Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: SITE DETAIL PLAN - SHEET 2 OF 2

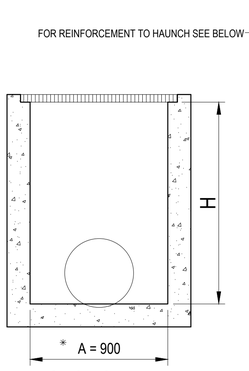
Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	1:250 @ A1

Drawing number: 18E34_D3_C102

Revision: 03

TYPICAL PIT CHAMBER SIZES
IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

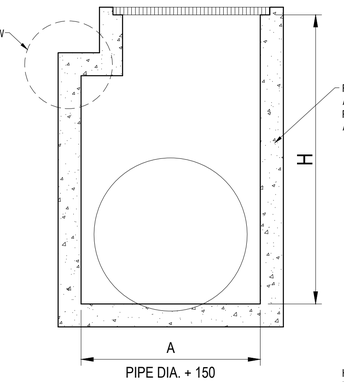
1. SELECT PIT CHAMBER USING THE STEPS BELOW:
2. SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
3. CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
   CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.



SECTION
NTS

*A = 600 FOR PIPES UP TO 375 DIA.

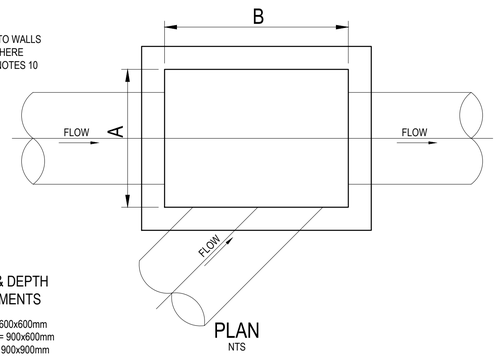
1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.



SECTION
NTS

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



PLAN
NTS

3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

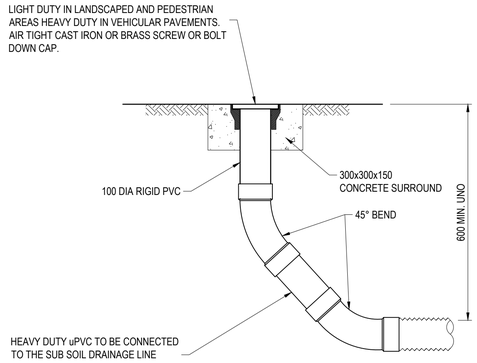
2 PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm

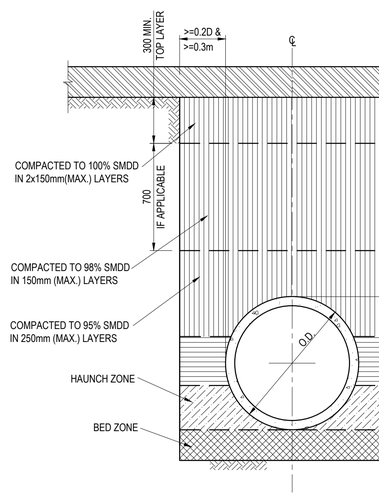
TABLE 1	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

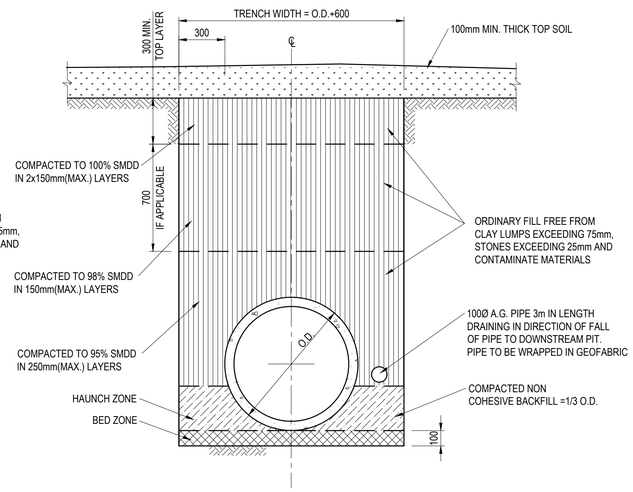


FLUSHING POINT (FP)
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



PIPE TRENCH INSTALLATION BENEATH PAVEMENT
(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20

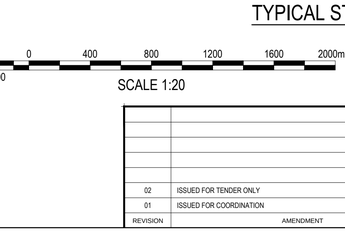
NOTE:
TYPE HS2 TO BE USED AS A TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY UNLESS SPECIFIED SEPERATELY



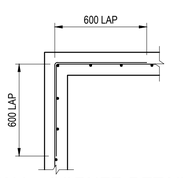
PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS
(H1 & H2 SUPPORT)
SCALE 1:20

DRAINAGE NOTES:

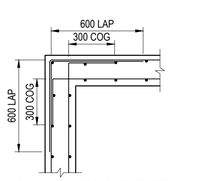
1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
   ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f'c=32 MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.
11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
    - PIPE SIZE
    - DEPTH TO INVERT
    - SKEW ANGLE
    REFER TYPICAL PIT CHAMBER DETAILS BELOW
    IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.
13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



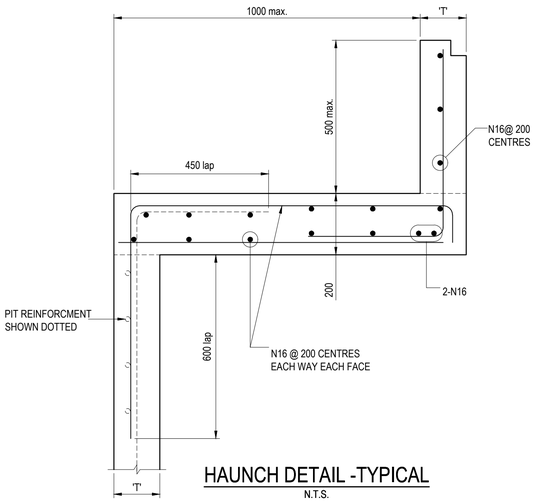
TYPICAL STEP IRON DETAIL
SCALE 1:10



150 WALL - CORNER DETAIL
SCALE 1:20



200 WALL - CORNER DETAIL
SCALE 1:20



HAUNCH DETAIL -TYPICAL
N.T.S.

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

0 200 400 600 800 1000mm
200 100
SCALE 1:10

FOR DA ONLY

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR TENDER ONLY	JK	LV	17.01.2020
01	ISSUED FOR COORDINATION	JK	LV	11.11.2019

Client: CATHOLIC EDUCATION DIOCESE OF WOLLONGONG
Architect: JDH ARCHITECTS

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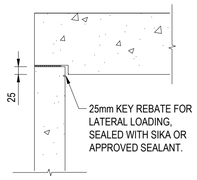
Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW
Title: STORMWATER MISCELLANEOUS DETAILS

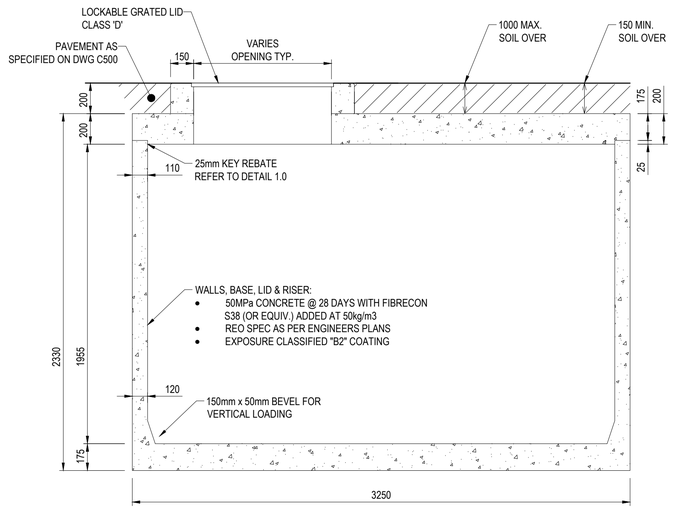
Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	AS NOTED @ A1

Drawing number: 18E34_D3_C200
Revision: 02



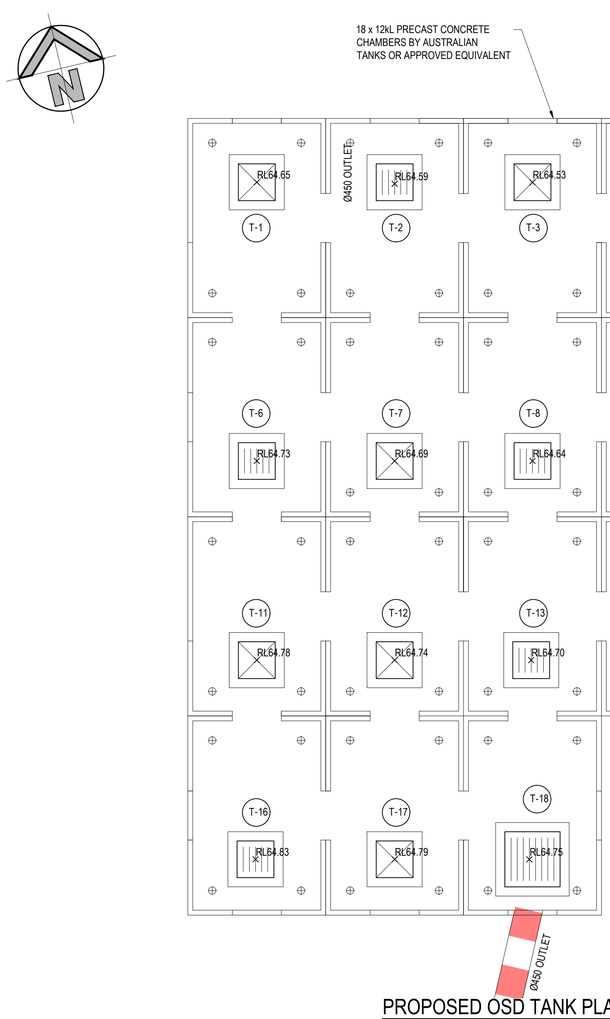
DETAIL 1.0

SCALE 1:10



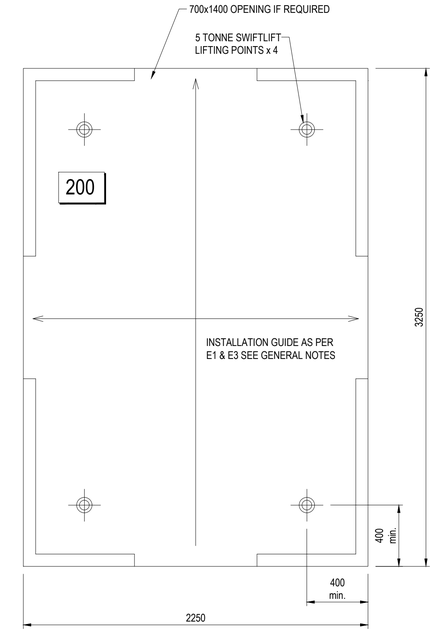
SECTION A

SCALE: 1:20



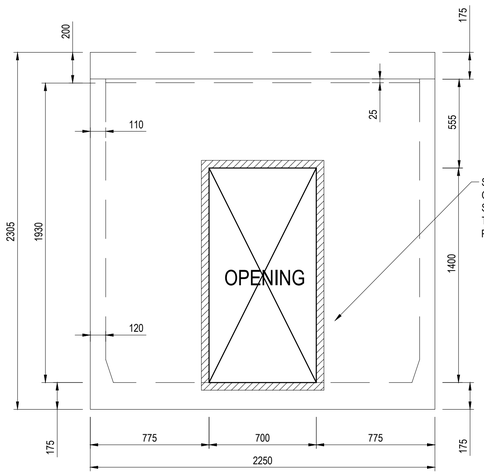
PROPOSED OSD TANK PLAN

SCALE: 1:50



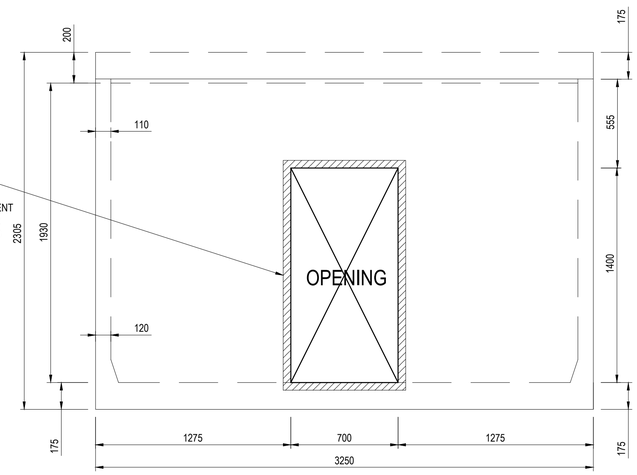
PROPOSED TANK BASE PLAN

SCALE: 1:20



PROPOSED TANK WALL OPENING "1"

SCALE: 1:20



PROPOSED TANK WALL OPENING "2"

SCALE: 1:20

INSTALLATION NOTES

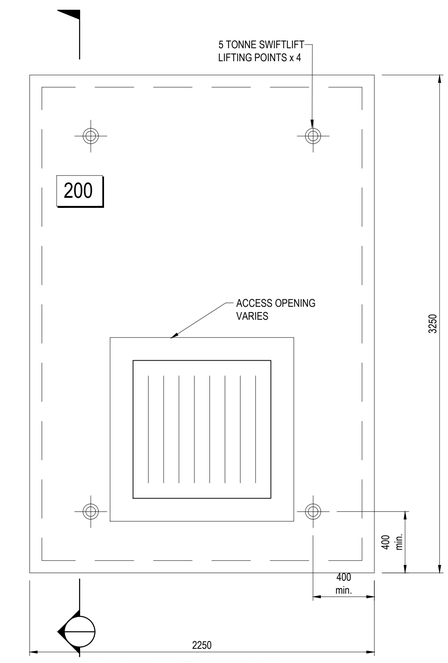
THE BUILDING CONTRACTOR MUST ENSURE TANK BASE IS TO BEAR IN STABLE NATURAL GROUND WITH A SAFE BEARING CAPACITY OF AT LEAST 150kPa.

PROVIDE A 100m THICK LEVELING LAYER OF COMPACTED SAND / ROADBASE / CRUSHED ROCK AT THE BASE OF EXCAVATION. THIS LAYER MAY BE OMITTED SHOULD THE EXISTING FOUNDING MATERIAL BE DEEMED BY THE ENGINEER A SOUND PLATFORM FOR THE INSTALLATION OF THE TANK.

THE BASESLAB IS NOT TO BE FOUNDD ON A CUT / FILL PLATFORM. BASE SLAB IS TO BE WHOLLY FOUNDED IN EITHER CUT OR FILL.

BACKFILLING AROUND AND ADJACENT TO WALLS SHALL BE WITH APPROVED SELECTED MATERIAL. THE MATERIAL SHALL BE COMPACTED IN LAYERS NOT MORE THAN 250mm THICK, EACH LAYER SHALL BE COMPACTED TO AT LEAST 99% OF THE MAXIMUM DRY DENSITY AS DEFINED BY THE STANDAR COMPACTING TEST AS 1289.

NO MORE THAN 500mm INBACKFILLING HEIGHT VARIATION BETWEEN OPPOSITE SIDES OF BACKFILL.



PROPOSED TANK LID PLAN

SCALE: 1:20

0 200 400 600 800 1000mm
200 100
SCALE 1:10

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

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SURVEY INFORMATION
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LAND TEAM AUSTRALIA PTY LTD
DATUM: AHD

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02	ISSUED FOR TENDER ONLY	JK	LV	17.01.2020
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Architect: JDH ARCHITECTS

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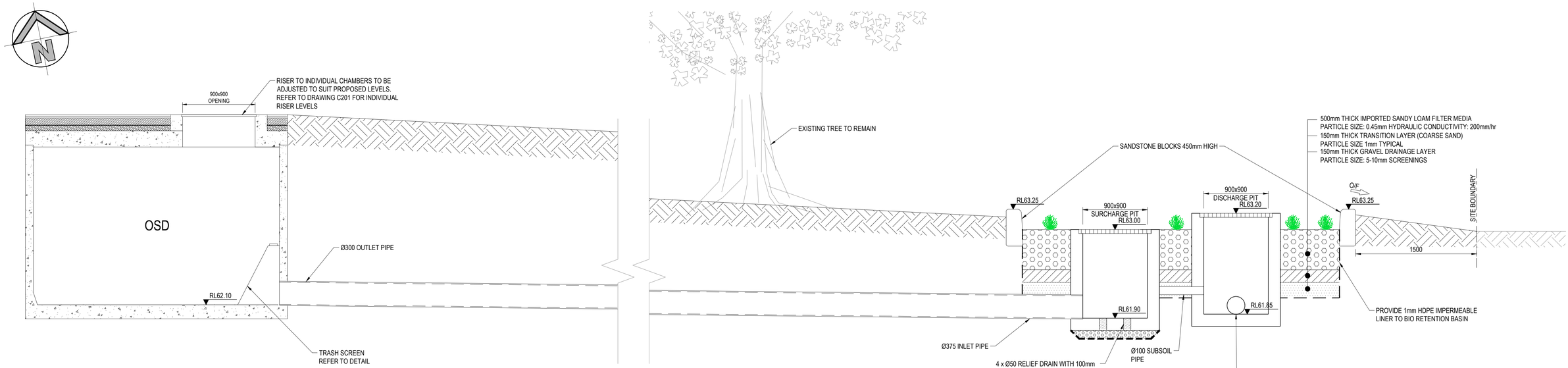
Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: OSD PLAN AND SECTIONS

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	AS NOTED @ A1

Drawing number: 18E34_D3_C201

Revision: 02

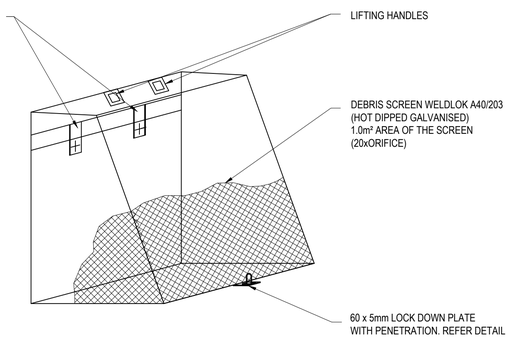


SECTION A
C101
SCALE: 1:25

100 x 16 MOUNTING BAR WITH BRACKETS, SCREEN TO BE ATTACHED (GENERALLY ON A SLIDING MECHANISM) TO THE WALL, BUT SHOULD BE REMOVABLE (WITHOUT THE USE OF TOOLS) TO PERMIT CLEANSING AND EASY INSPECTION OF THE OUTLET CONTROL. ALL STEEL TO BE HOT DIPPED GALVANISED.

SCREEN TYPE WELDLOK A40/203 IS RECOMENDED FOR ORIFICES LARGER THAN 150mm AND SCREEN AREA 20 x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRCT SECTION 4-13

MAXIMESH RH3030 IS RECOMMENDED FOR ORIFICES LESS THAN 150mm IN DIAMETER AND SCREEN AREA 50xTHE ORIFICE AREA REFER BURWOOD COUNCIL AND UPPER PARRAMATTA RIVER CATCHMENT TRUST HANDBOOK.



DEBRIS SCREEN DETAIL
NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED

0 500 1000 1500 2000 2500mm
500 300 100
SCALE 1:25

0 200 400 600 800 1000mm
200 100
SCALE 1:10

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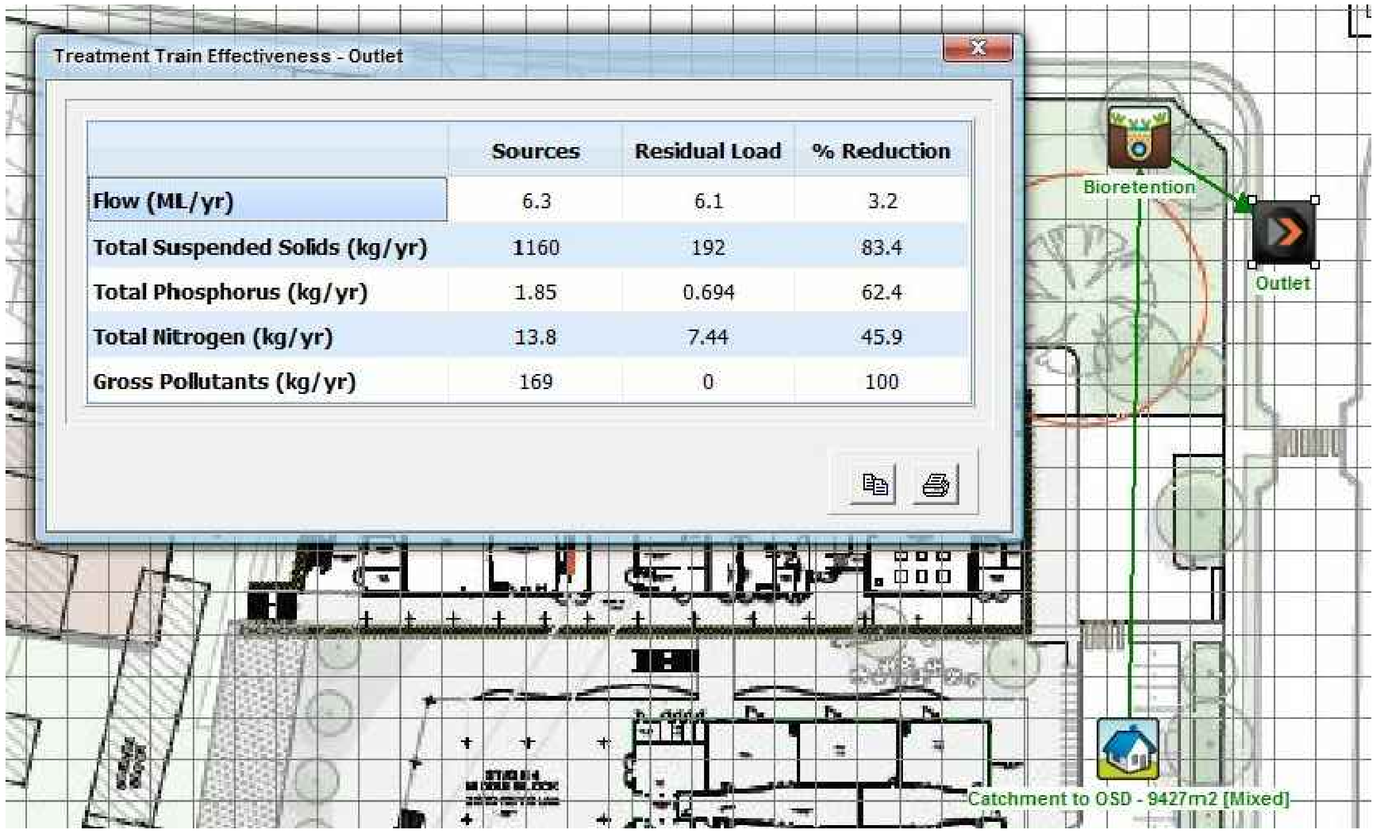
Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW
Title: OSD SECTIONS AND DETAILS

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	AS NOTED @ A1

Drawing number: 18E34_D3_C202
Revision: 02



MUSIC MODEL

NTS

DESIGN SUMMARY

THE STORMWATER MANAGEMENT MEASURES HAVE BEEN DESIGNED IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S DEVELOPMENT CONTROL PLAN, ON-SITE STORMWATER DETENTION POLICY AND, ON-SITE STORMWATER DETENTION TECHNICAL MANUAL.
STORMWATER QUANTITY
A DRAINS MODEL HAS BEEN PREPARED TO DETERMINE THE PRE-DEVELOPMENT AD POST-DEVELOPMENT STORMWATER RUNOFF. THE PRE-DEVELOPMENT FLOW HAS BEEN LIMITED TO THE PRE-DEVELOPMENT FLOW PRODUCED BY THE CATCHMENT DRAINING TO VINNY ROAD
REFER TO SUMMARY TABLE.

PRE-DEVELOPED VINNY ROAD CATCHMENT: 5239 m² (ASSUMED 100% PERVIOUS - 0% IMPERVIOUS)
POST-DEVELOPMENT OSD CATCHMENT: 8684 m² (ASSUMED 10% PERVIOUS - 90% IMPERVIOUS)

OSD CALCULATIONS

YR	PRE-DEVELOPMENT (L/S)	POST-DEVELOPMENT (L/S)
100	191	179
20	133	106
10	108	94
5	80	78

TOTAL OSD STORAGE PROVIDED = 204m³
OSD OUTLET CONTROL: Ø250mm ORIFICE
SITE DISCHARGE CONTROL: Ø200mm PIPE FROM BIO-RETENTION BASIN CONNECTING INTO EXISTING PIT ON VINNY ROAD

STORMWATER QUALITY

A STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED TO LIMIT AND ELIMINATE ANY ADVERSE EFFECT ON THE ADJACENT ECOSYSTEM RESULTING FROM THE PROPOSED DEVELOPMENT. A MUSIC MODEL HAS BEEN PREPARED TO DETERMINE THE EFFECTIVENESS OF THE WATER QUALITY TREATMENT DEVICES AT REACHING THE RATE REMOVAL RATES TARGETS SET BY LIVERPOOL CITY COUNCIL. REFER TO RESULT SUMMARY TABLE BELOW AND SCREENSHOT.

WATER QUALITY TREATMENT		
POLLUTANT	REDUCTION TARGETS (%)	ACHIEVED REDUCTION (%)
GROSS POLLUTANT	90	100
TOTAL SUSPENDED SOLIDS	80	83.4
TOTAL PHOSPHORUS	45	62.4
TOTAL NITROGEN	45	45.9

FOR DA ONLY

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Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: OSD CALCULATIONS AND MUSIC MODELLING RESULTS

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	NTS

Drawing number: 18E34_D3_C203
Revision: 02

PRE-DEVELOPMENT - TOTAL SITE = 72279m²

CATCHMENT TO OSD TO VINNY ROAD = 8684m²

CATCHMENT TO POZIERS ROAD = 3777m²

REMAINING SITE TO EXISTING OSD AND PLAYING FIELDS BYPASSING EXISTING OSD = 59818m²

N

JARDINE DRIVE

POZIERS ROAD

VINNY ROAD

GUILLEMONT ROAD

0 10 20 30 40 50m

10 8 6 4 2

SCALE 1:500

STORMWATER CATCHMENT PLAN

SCALE: 1:500

FOR DA ONLY

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SURVEYED BY:

LAND TEAM AUSTRALIA PTY LTD

DATUM: AHD

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03	ISSUED FOR TENDER ONLY	JK	LV	20.01.2020
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Project: ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: STORMWATER CATCHMENT PLAN

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	1:500 @ A1

Drawing number: 18E34_D3_C250

Revision: 03

LEGEND

- SITE BOUNDARY
- PROPOSED SEDIMENTATION FENCE
- PROPOSED STOCKPILE LOCATION
- PROPOSED GEO-TEXTILE INLET FILTER
- PROPOSED MESH & GRAVEL INLET FILTER
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS

SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1:500

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY:

LAND TEAM AUSTRALIA PTY LTD

DATUM: AHD

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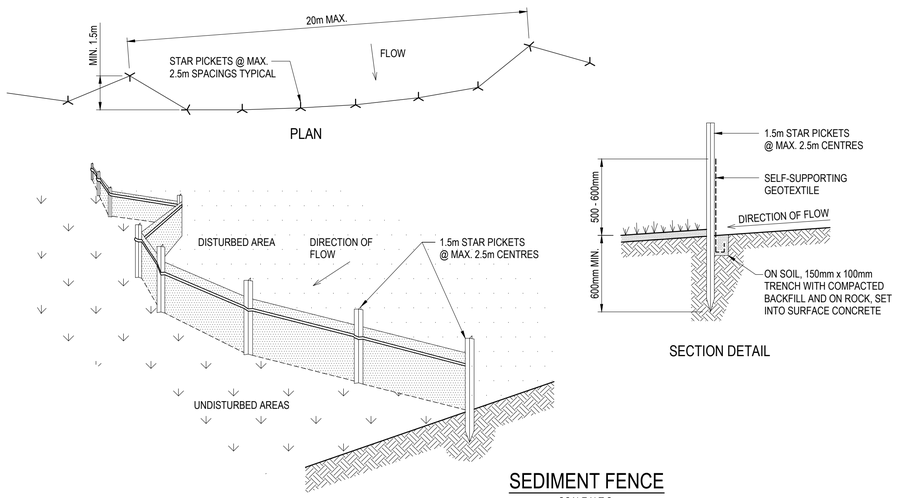
Project: ST. FRANCIS CATHOLIC COLLEGE - STAGE 4
130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: SEDIMENT AND EROSION CONTROL PLAN

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	1:500 @ A1

Drawing number: 18E34_D2_SE01

Revision: 02

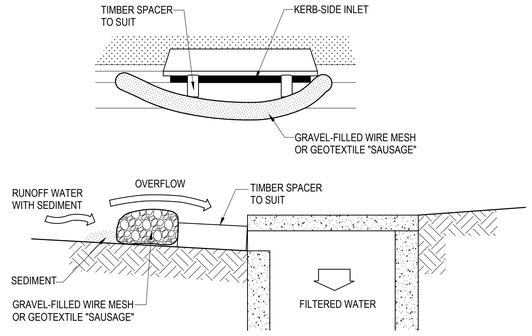


SEDIMENT FENCE

SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

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. 3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. 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. 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.

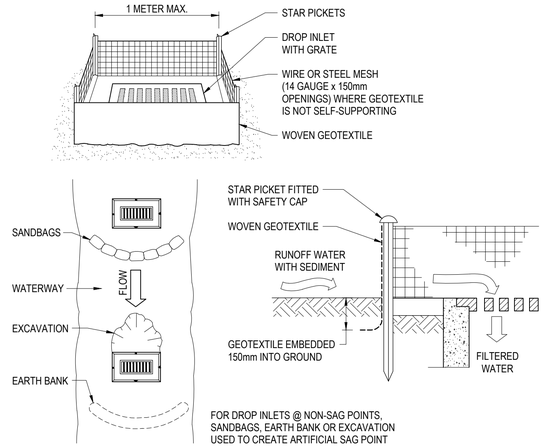


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER

SCALE N.T.S.



GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

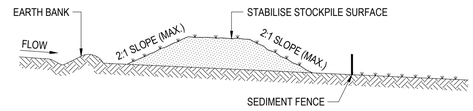
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S.

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE COUNCIL SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILTY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

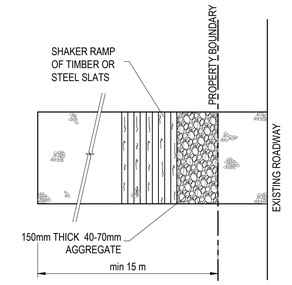


STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SCALE N.T.S.

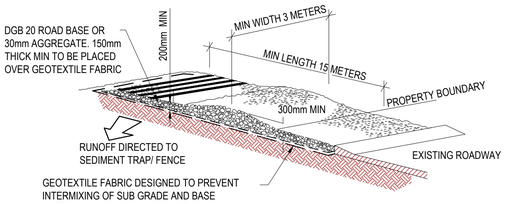


PLAN

STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

CONSTRUCTION SITE



STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

NOTES:

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY "HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY:
LAND TEAM AUSTRALIA PTY LTD
DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR TENDER ONLY	JK	LV	17.01.2020
01	ISSUED FOR COORDINATION	JK	LV	11.11.2019

Client: CATHOLIC EDUCATION DIOCESE OF WOLLONGONG

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130-160 JARDINE DRIVE, EDMONDSON PARK NSW

Title: SEDIMENT AND EROSION CONTROL DETAILS

Drawn	Designed	Date
J.Knight	L.Villa	JAN 2019
Checked	Approved	Scale
B.Seizov	A.Francis	NTS

Drawing number: 18E34_D2_SE02
Revision: 02