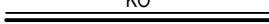

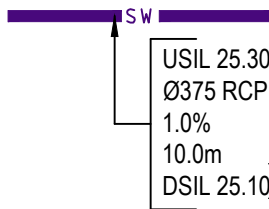








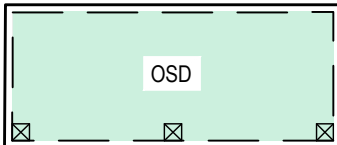







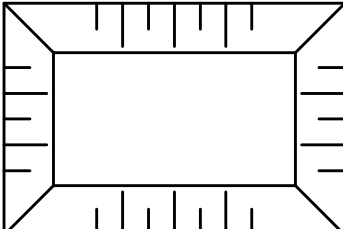











TRINITY GRAMMAR SCHOOL - TGS RENEWAL PROJECT
119 PROSPECT ROAD, SUMMER HILL NSW 2130
CIVIL SERVICES

CIVIL LEGEND

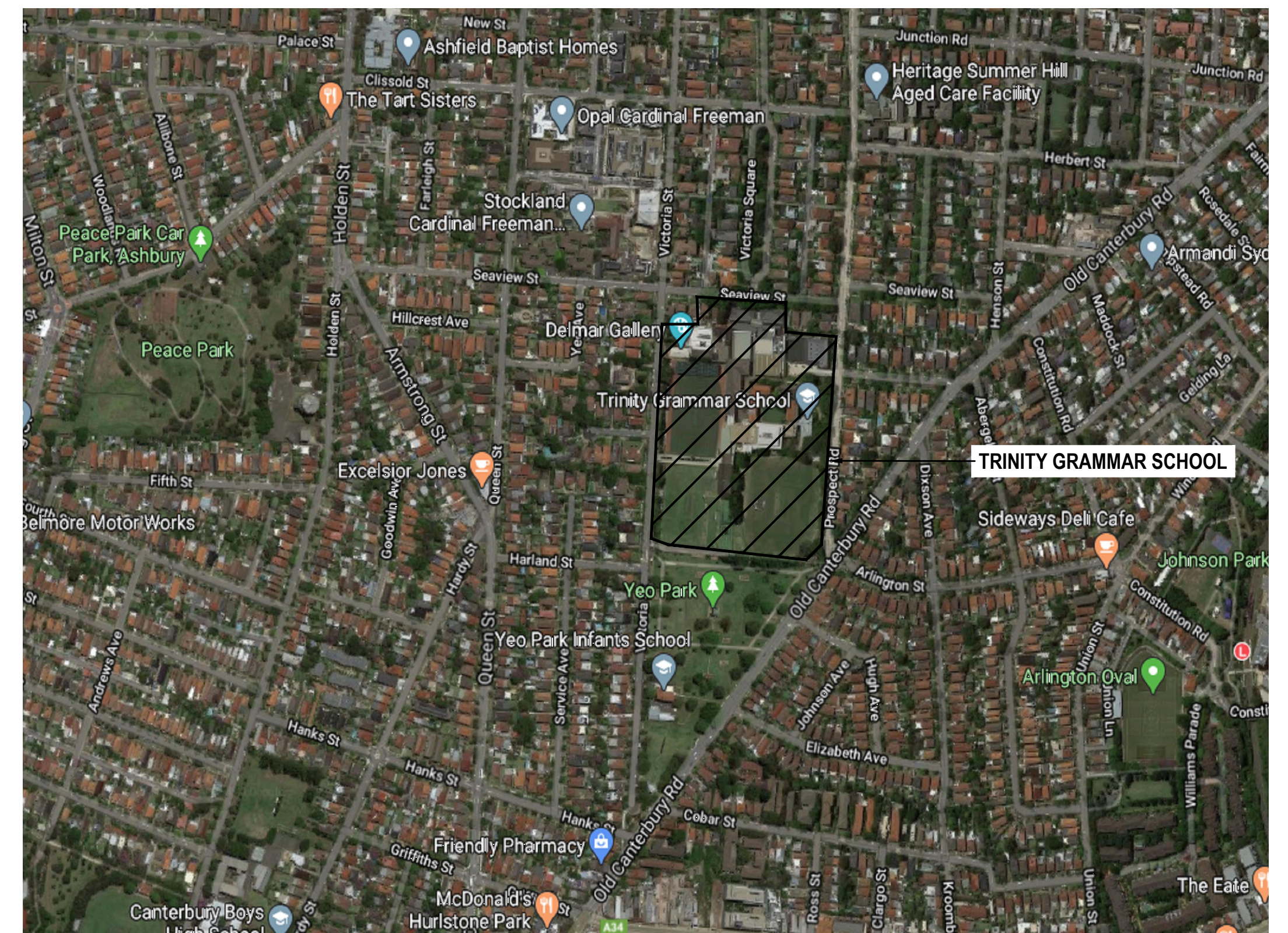
	KERB ONLY
<ul style="list-style-type: none">• P56.20• EX56.20	PROPOSED FINISHED SURFACE LEVEL EXISTING SURFACE LEVEL
	RAIN WATER OUTLET <ul style="list-style-type: none">- PEDESTRIAN AREAS - Ø150 ROUND RWO WITH S/S GRATE. SPS TRUFLUO OR APPROVED EQUIVALENT- UNDER SPORTS FIELD - Ø260(O.D.) ROUND RWO. SPS TRUFLUO OR APPROVED EQUIVALENT
	STORMWATER LINE WITH: INVERT LEVEL UPSTREAM PIPE SIZE AND MATERIAL CLASS PIPE GRADE PIPE LENGTH INVERT LEVEL DOWNSTREAM
	STORMWATER DRAINAGE STRUCTURE WITH NUMBER - REFER SCHEDULE
	GRATED DRAIN IN PEDESTRIAN AREAS. ACO KS100 (MIN DEPTH 100mm CLEAR INTERNAL) WITH ANTI-SLIP HEEL SAFE CLASS 'B' GRATE
	GRATED DRAIN IN TRAFFICABLE AREAS. ACO K200 (MIN DEPTH 250mm CLEAR INTERNAL) WITH GALVANISED STEEL CLASS 'D' GRATE
	WIDE GRATED DRAIN IN PEDESTRIAN AREAS. ACO KS200 (MIN DEPTH 200mm CLEAR INTERNAL) WITH ANTI-SLIP HEEL - SAFE CLASS 'B' GRATE
	EXISTING GRATED DRAIN
	EXISTING GRATED STORMWATER PIT
	CONTINUATION TAG
	OVERLAND FLOW PATH
	ON-SITE DETENTION SYSTEM
	SURFACE FALL ARROW

SOIL EROSION AND SEDIMENT CONTROL LEGEND

	OUTLINE OF BASEMENT LEVEL
	TEMPORARY CUT OFF DRAIN
	SEDIMENT FENCE
	SAND BAG SEDIMENT TRAP
	STABILISED CONSTRUCTION EXIT
	FILTER FABRIC DROP INLET PIT.
	SEDIMENT BASIN

EXISTING SERVICES LEGEND	
	EXISTING SEWER
	EXISTING WATER
	EXISTING GAS
	EXISTING COMMUNICATIONS
	EXISTING OPTIC FIBER
	EXISTING STORMWATER
	EXISTING ELECTRICAL
	EXISTING OVERHEAD ELECTRICAL
	EXISTING NBN

DRAWING LIST		
DWG No.	DESCRIPTION	REVISION
C1.01	COVER SHEET AND LEGENDS	A
C1.02	NOTES	A
C1.05	DETAILS - SHEET 1	A
C1.06	DETAILS - SHEET 2	A
C1.07	DETAILS - SHEET 3	A
C1.08	DETAILS - SHEET 4	A
C1.09	DETAILS - SHEET 5	A
C1.10	DETAILS - SHEET 6	A
C2.01	BULK EARTHWORKS - CUT AND FILL PLAN	A
C3.00	KEY PLAN	A
C3.01	CIVIL WORKS PLAN - SHEET 1 - BASEMENT 2	A
C3.02	CIVIL WORKS PLAN - SHEET 2 - BASEMENT 1	A
C3.03	CIVIL WORKS PLAN - SHEET 3 - LEVEL 0	A
C3.04	CIVIL WORKS PLAN - SHEET 4 - LEVEL 0	A
C3.05	CIVIL WORKS PLAN - SHEET 5 - LEVEL 0	A
C3.06	CIVIL WORKS PLAN - SHEET 6 - LEVEL 0	A
C3.07	CIVIL WORKS PLAN - SHEET 7 - LEVEL 0	A
C3.08	CIVIL WORKS PLAN - SHEET 8 - LEVEL 0	A
C3.50	CATCHMENT PLAN	A
C5.01	SOIL EROSION AND AND SEDIMENT CONTROL PLAN	A
C5.02	SOIL EROSION AND AND SEDIMENT CONTROL DETAILS	A



LOCALITY PLAN

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DIAL BEFORE YOU DIG		
	<p>DIAL <i>BEFORE</i> YOU DIG www.1100.com.au</p>	<p>IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.</p>

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A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB
Issue	Description	Date	Drawn	Approved
1" = 1'	1" = 10m at full size	1" = 10m		1" = 10m

	Client
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Architect



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Project

Project: TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

119 PROSPECT RD,
SUMMER HILL NSW 2130

Drawing Title

COVER SHEET AND LEGENDS

Drawn DK	Date Feb-20	Scale N/A	A1	Q.A. Check Date	
Designed MB	Project No. SY180989		Dwg. No. C101		Issue A

NOT FOR CONSTRUCTION

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
- WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT OR PROJECT MANAGER BEFORE THE WORK COMMENCES.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS.
- BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES
- THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **ACOR CONSULTANTS PTY.LTD.**

COMPACTION NOTES

- ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH THE SITE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY DOUGLAS PARTNERS (REF : 8686f1)
- STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTENDENT.
- WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A DEADWEIGHT (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER.
- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE GEOTECHNICAL ENGINEER AND SHALL COMPLY WITH THE FOLLOWING :
 - FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER
 - MAXIMUM PARTICLE SIZE 75MM
 - PLASTICITY INDEX BETWEEN 2% AND 15%
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 250MM THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY. DETERMINED IN ACCORDANCE WITH AS 1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 E1.1 :

LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS AND CARPARKS	98%
LANDSCAPED AREAS	90%

THE UPPER 0.5m THICKNESS FOR THE FOLLOWING AREAS MUST BE COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) AS FOLLOWS

LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	100%
EXTERNAL PAVED AREAS, ROADS AND CARPARKS	100%

- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

SITEWORKS NOTES

- ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA 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 PRINCIPAL'S REPRESENTATIVE. 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 OBTAINED.
- 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 EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS.1289.5.1.1.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- PROVIDE 12mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
- CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.

EXISTING SERVICES AND FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, 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 WRITTEN APPROVAL OF HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
- 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 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 OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

STORMWATER NOTES

- ALL 375 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
- EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
- ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
- MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
- CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE SUPERINTENDENT.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
- BEDDING SHALL BE (U.N.O.) TYPE H2, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
- WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
- PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

RAINWATER REUSE SYSTEM

MARKING & LABELLING

- THE WATER SUPPLY SYSTEM FROM A RAINWATER TANK SHALL BE CLEARLY MARKED 'RAINWATER' AT INTERVALS NOT EXCEEDING 1m WITH CONTRASTING COLOURED WORDING. WATER OUTLETS SHALL BE IDENTIFIED AS 'RAINWATER' WITH A LABEL OR A RAINWATER TAP IDENTIFIED BY A GREEN COLOURED INDICATOR WITH THE LETTERS 'RW'.
- HOSE TAP OUTLETS SHALL : -
 - BE CLEARLY MARKED 'WARNING: NOT FOR DRINKING' IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1319.
 - BE OF A TYPE THAT HAS A REMOVABLE HANDLE.

NON-DRINKING WATER SERVES - HOSE TAP OUTLETS

- PROXIMITY TO OTHER SERVICES
- THE FOLLOWING APPLIES:
 - ABOVEGROUND INSTALLATION OF NON-DRINKING WATER SERVICES SHALL NOT BE INSTALLED WITHIN 100mm OF ANY PARALLEL DRINKING WATER SERVICE, EXCEPT WHEN INSTALLED IN PIPE DUCT OR STRUCTURALLY SEPARATED
 - BELOW-GROUND INSTALLATIONS OF NON-DRINKING WATER SERVICES SHALL NOT BE INSTALLED WITHIN 300mm OF ANY PARALLEL DRINKING WATER SUPPLY.

MARKING & LABELLING OF NON-DRINKING WATER PIPES & OUTLETS

- GENERAL
- ALL PIPES, PIPE SLEEVES, IDENTIFICATION TAPES, & OUTLETS SHALL BE COLOURED LILAC (P23) IN ACCORDANCE WITH AS 2700
 - ALL PIPES, PIPE SLEEVES & IDENTIFICATION TAPES, IN ACCORDANCE WITH AS 1345, SHALL BE MARKED WITH THE FOLLOWING, WARNING: RECYCLED OR RECLAIMED - WATER - DO NOT DRINK
- BELOW GROUND PIPES
- ALL BELOW GROUND PIPES SHALL HAVE AN IDENTIFICATION TAPE IN ACCORDANCE WITH CLAUSE GENERAL INSTALLED ON TOP OF THE WATER PIPELINE, RUNNING LONGITUDINALLY, & FASTENED TO THE PIPE AT NOT MORE THAN 3m INTERVALS.
- OUTLET POINTS
- ALL OUTLET POINTS SHALL BE CLEARLY & PERMANENTLY MARKED 'WARNING: NOT FOR DRINKING' WITH SAFETY SIGNS TO COMPLY WITH AS 1319 & AS 1345.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION.
- ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

- THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :
 - INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND SANDBAG KERB INLET SEDIMENT TRAP
 - UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

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

FENCING

- 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.
- 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.
- 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.

- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.

SITE INSPECTION & MAINTENANCE

- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.

This drawing has been assigned an electronic code that signifies the drawing has been checked and approved by:

						North		
A	ISSUE FOR DEVELOPMENT APPLICATION					20.02.20	DK	MB
Issue	Description	Date	Drawn	Approved				

Client

Architect

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Project
TRINITY GRAMMAR SCHOOL - TGS RENEWAL PROJECT

119 PROSPECT RD,
SUMMER HILL NSW 2130

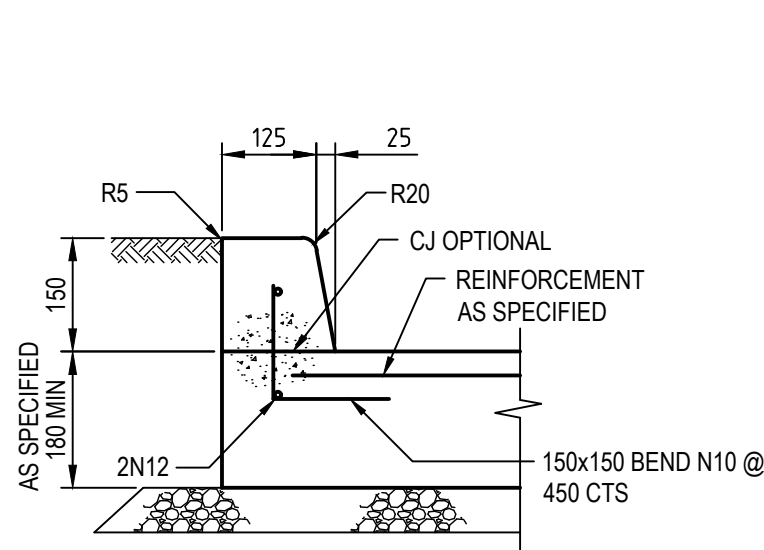
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Designed MB	Project No. SY180989	Dwg. No. C1.02	Issue A		

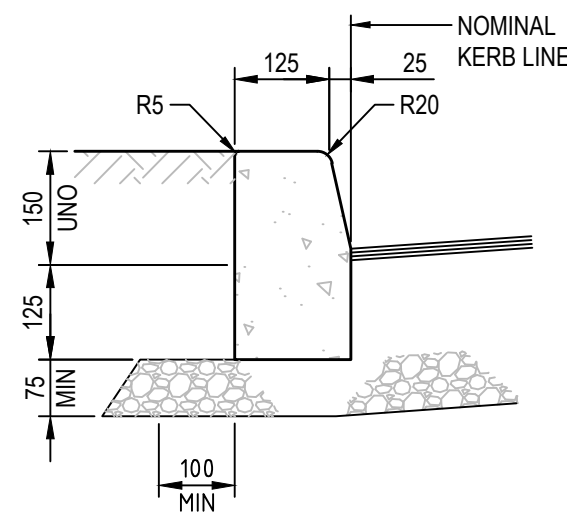
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Page 20 of 20 - 13.03.20

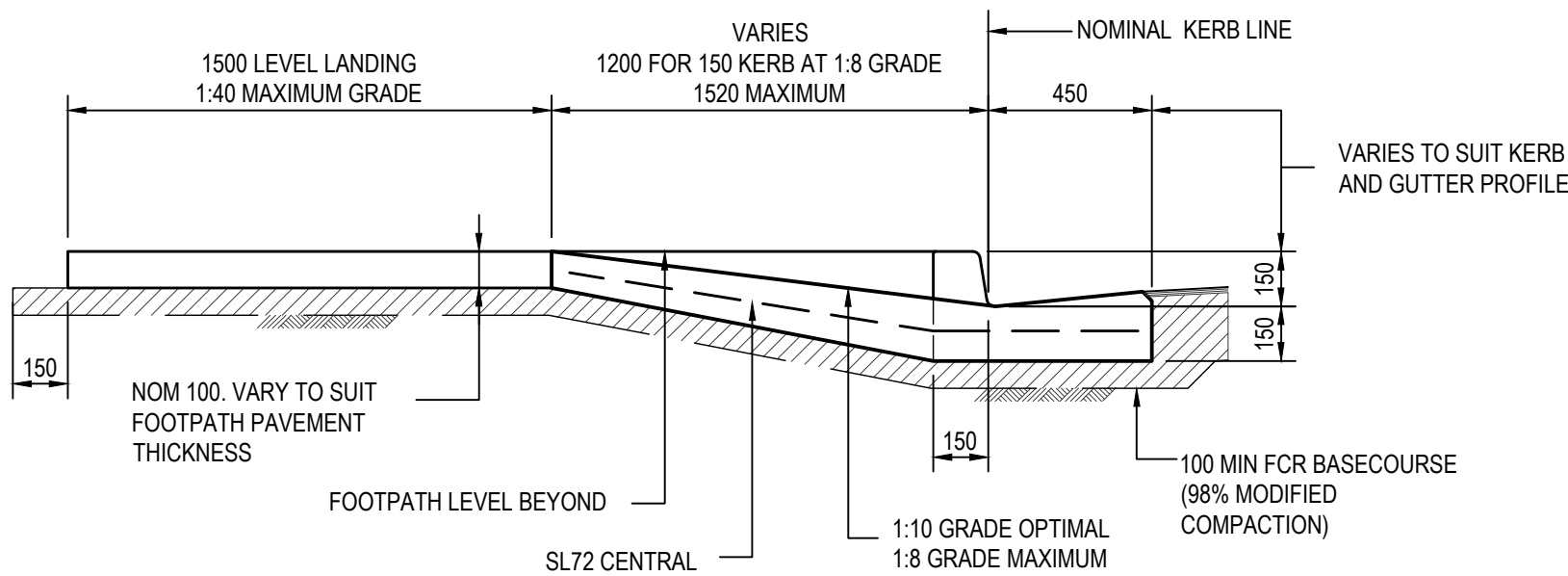
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INTEGRAL KERB
SCALE 1:10



KERB ONLY
SCALE 1:10
SHOWN AS "K0"



SECTION 1
SCALE 1:20

NOTE 1: GRADE AT 1:8 UP TO A MAXIMUM OF 1:4 GRADE IF REQUIRED TO ALLOW CONSTRUCTION OF FOOTPATH CLEAR LANDING IN CONSTRAINED AREAS. GREATER THAN 1:8 GRADE ONLY ALLOWABLE WHERE RAMP DOES NOT FORM PART OF THE PEDESTRIAN PATHWAY. 1:4 GRADE ON RAMP SPLAY REQUIRES HANDRAIL TO AS/NZS 1428.1:2001

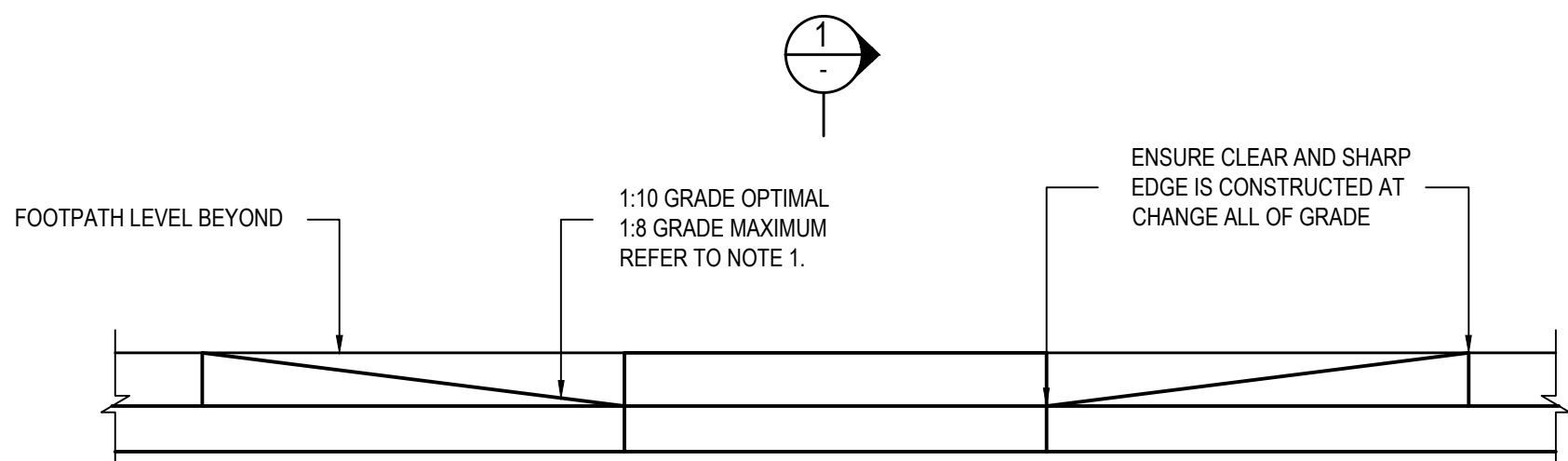
NOTE 2: REFER TO AS/NZS 1428.4:2002 FOR TACTILE INDICATOR REQUIREMENTS

30° TO 45° ANGLE VARIES TO ALLOW CONSTRUCTION OF FOOTPATH LANDING IN CONSTRAINED AREAS

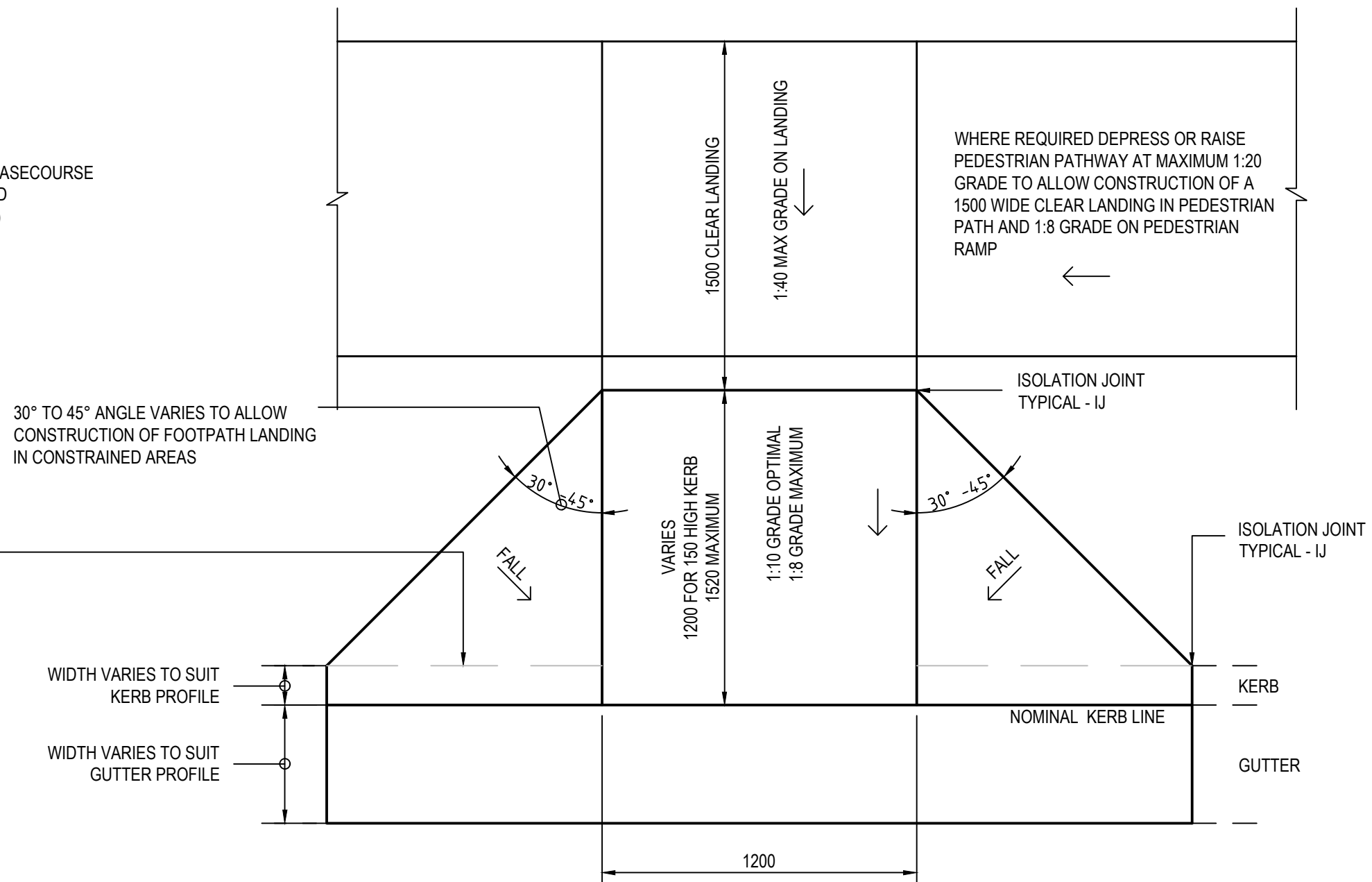
WIDTH VARIES TO SUIT KERB PROFILE

WIDTH VARIES TO SUIT GUTTER PROFILE

KERB RAMP DETAIL
SCALE 1:20



ELEVATION



PLAN

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						North
A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB		
Issue	Description	Date	Drawn	Approved		
1						

Client



Architect

PMDL ARCHITECTURE
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Project

TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

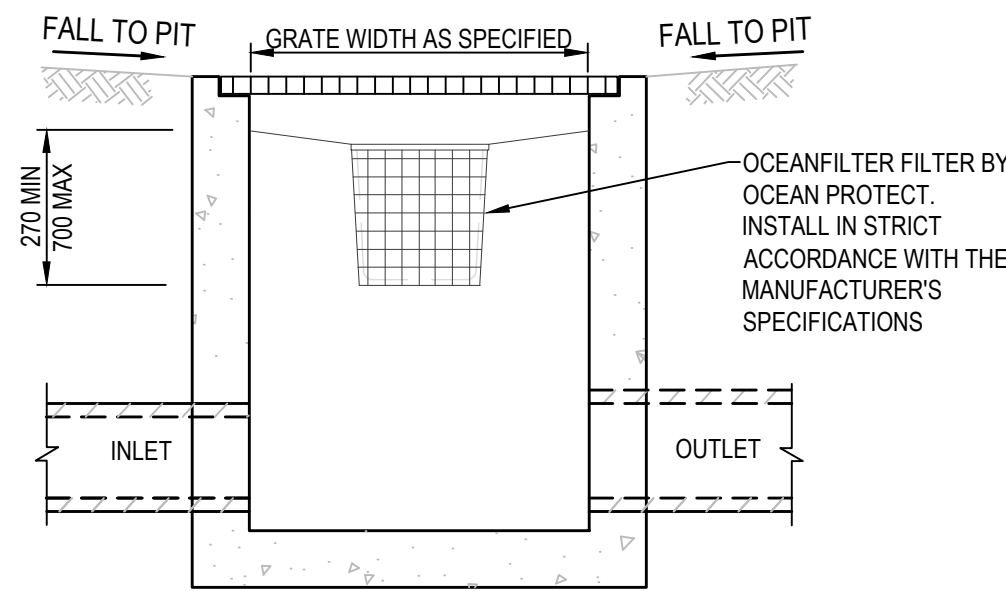
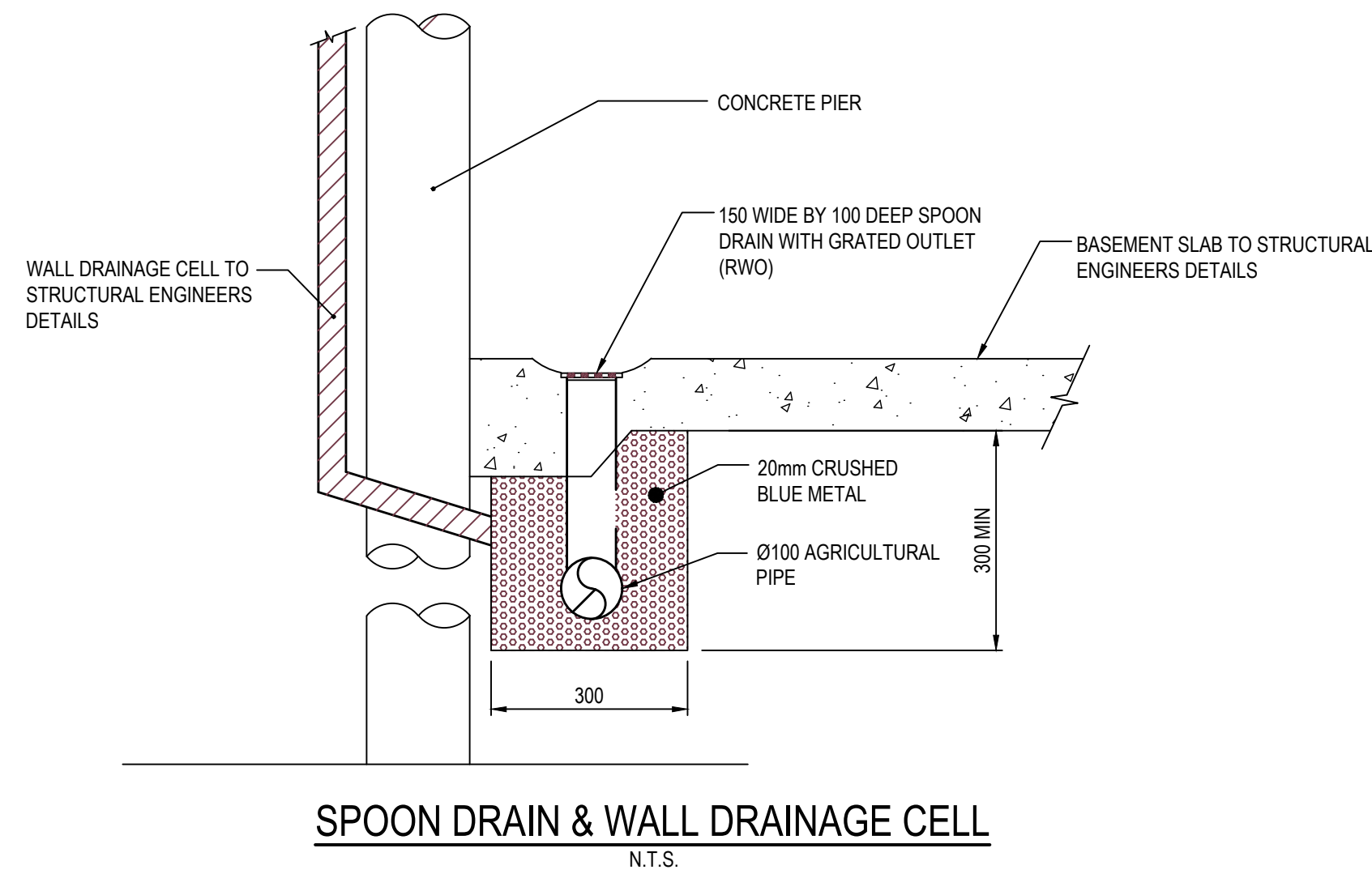
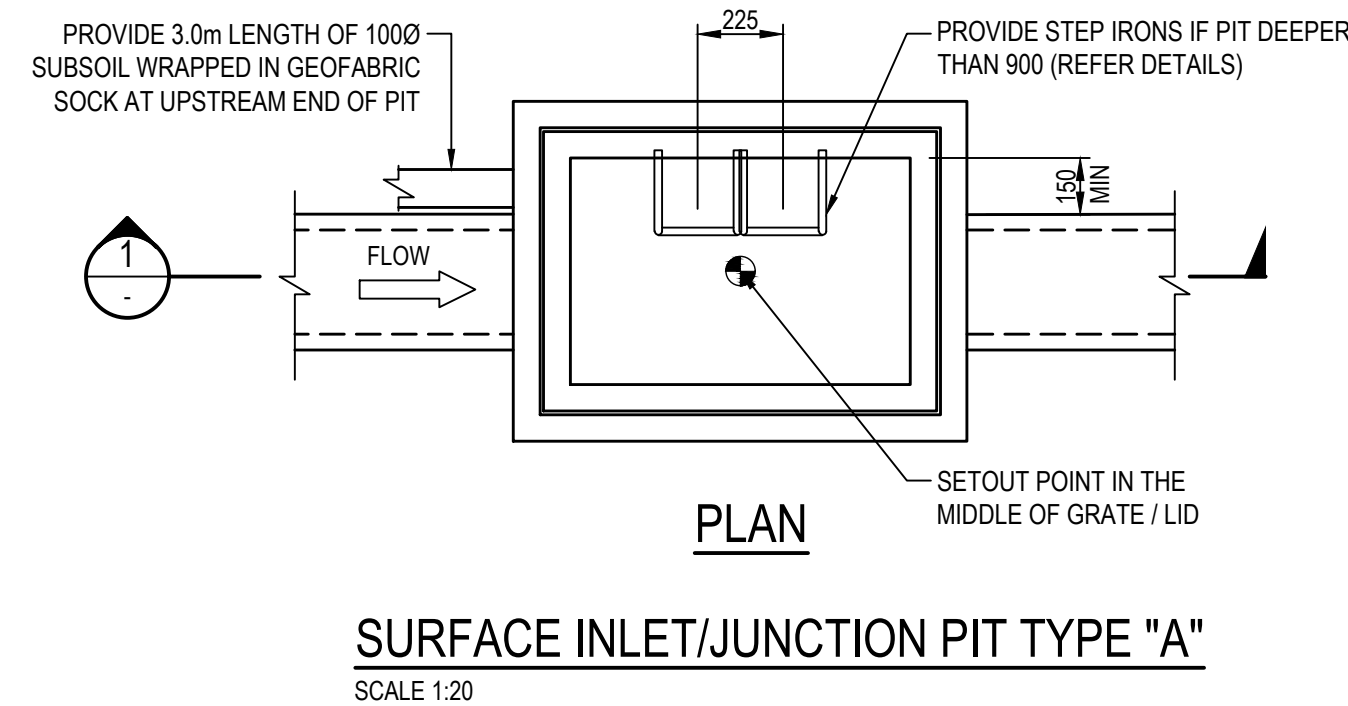
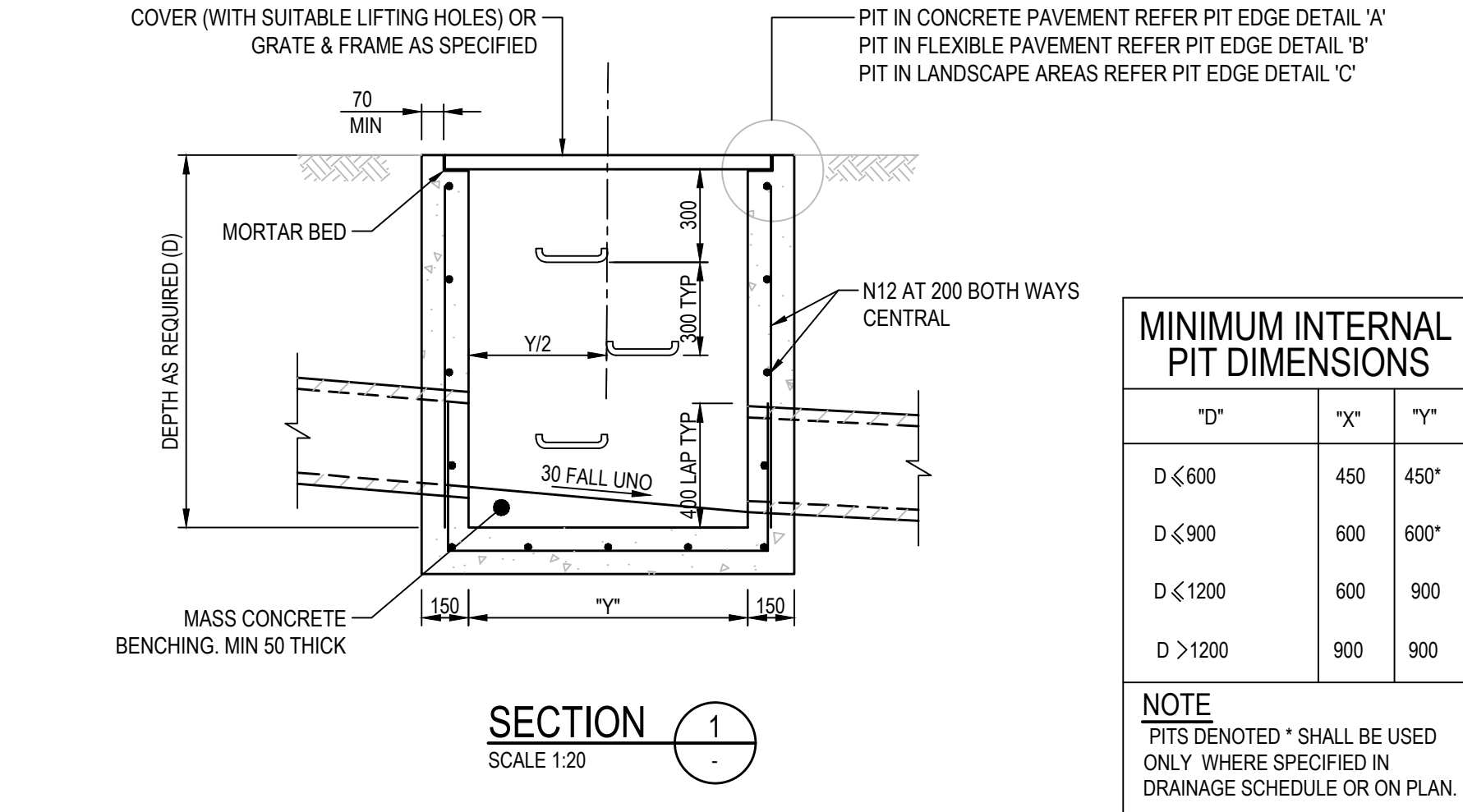
119 PROSPECT RD,
SUMMER HILL NSW 2130

Drawing Title
DETAILS
SHEET 1

Drawn DK	Date Feb-20	Scale AS SHOWN	A1	Q.A. Check	Date
Designed MB	Project No. SY180989	Dwg. No. C1.05	Issue A		

NOT FOR CONSTRUCTION

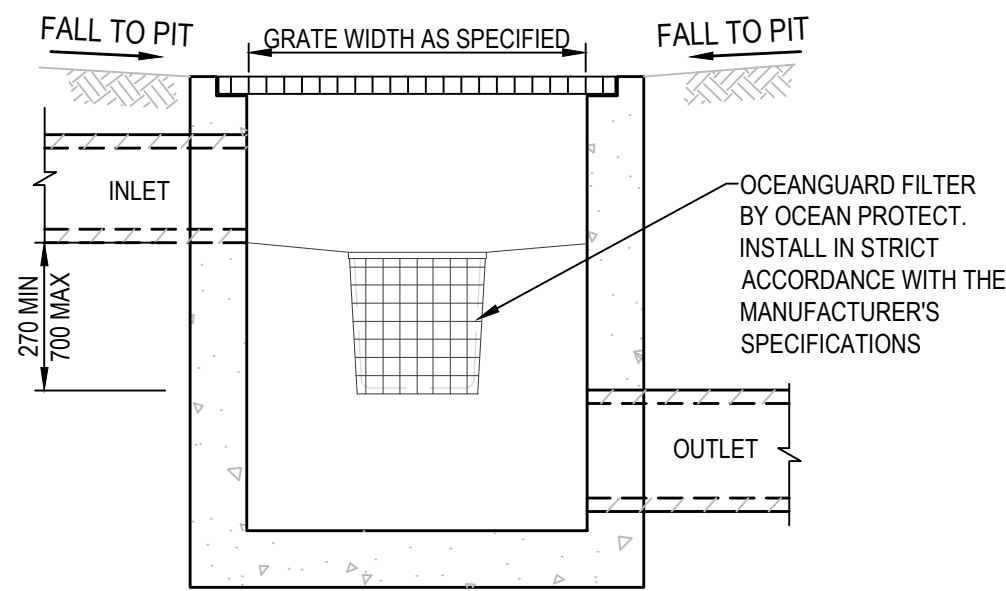
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Feb 20 2020 - 14:49pm



TYPICAL OCEANGUARD ARRANGEMENT DETAIL - SURFACE INLET TREATMENT

NOT TO SCALE

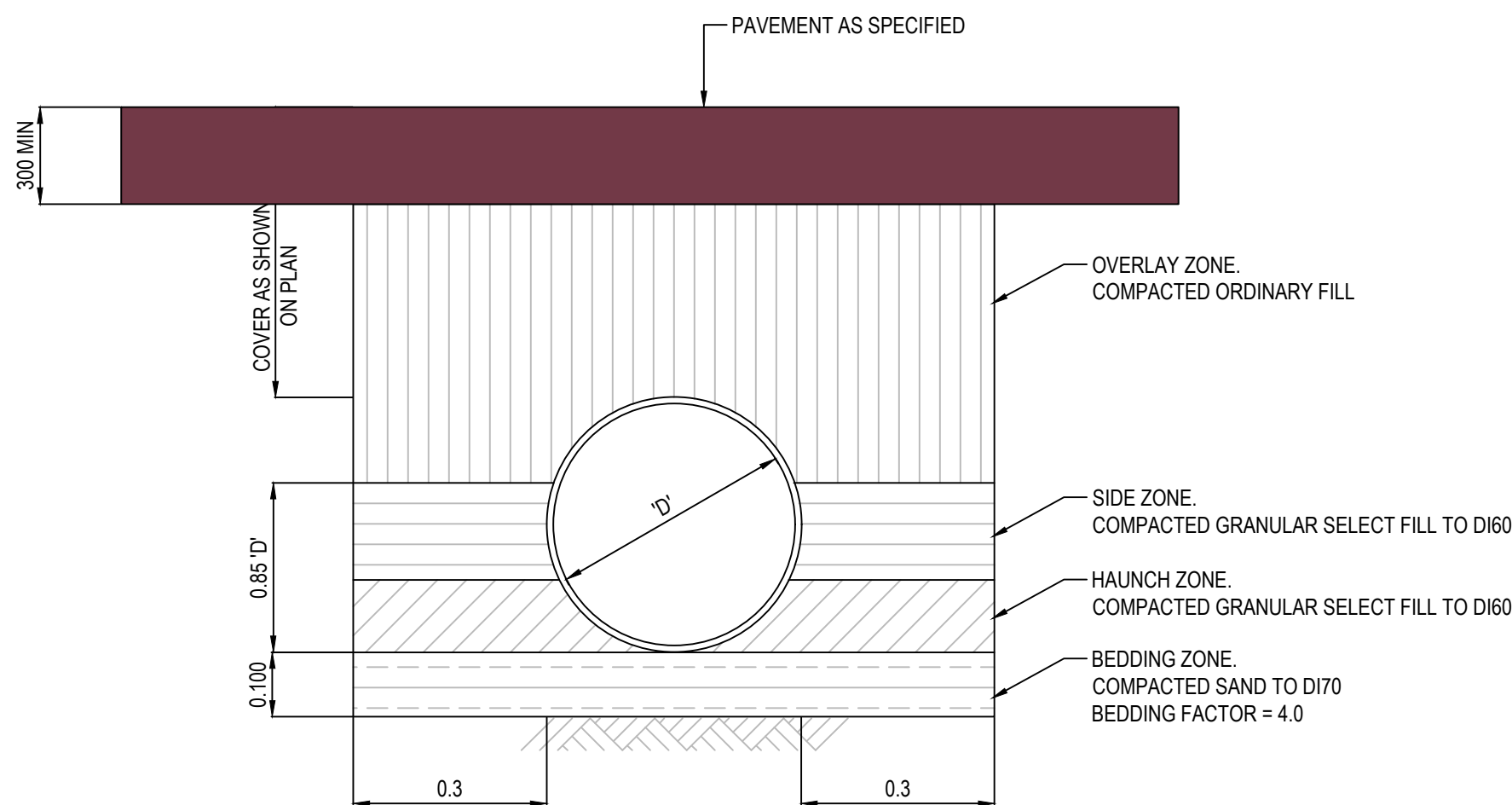
NOTE:
REFER TO MANUFACTURER'S DRAWINGS FOR OCEANGUARD FILTER ARRANGEMENT AND COMPONENTS DETAILS



TYPICAL OCEANGUARD ARRANGEMENT DETAIL - DOWNPIPE CONNECTION / DROP PIT

NOT TO SCALE

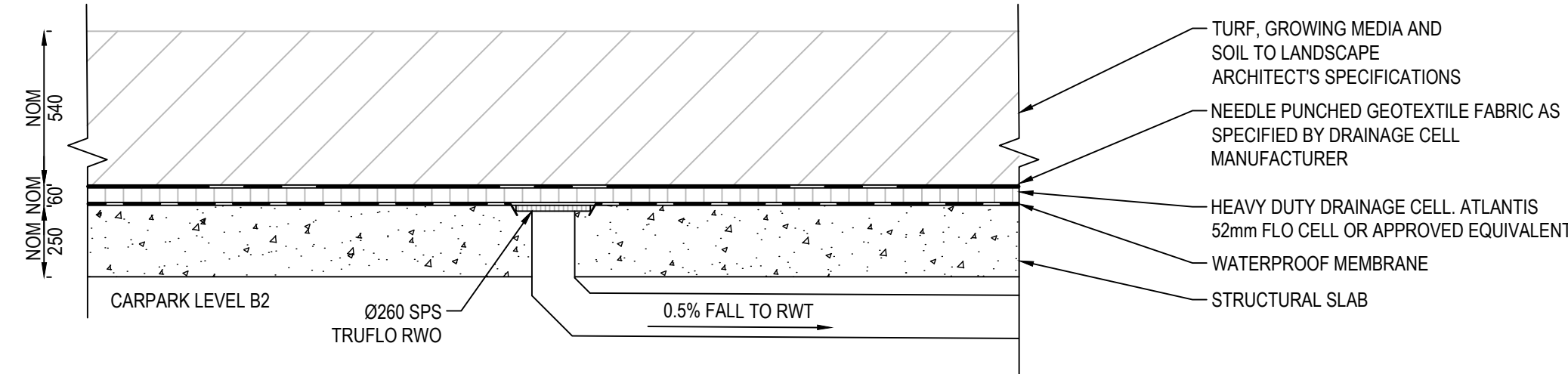
NOTE:
REFER TO MANUFACTURER'S DRAWINGS FOR OCEANGUARD FILTER ARRANGEMENT AND COMPONENTS DETAILS



TYPICAL STORMWATER TRENCH DETAIL

SCALE 1:10

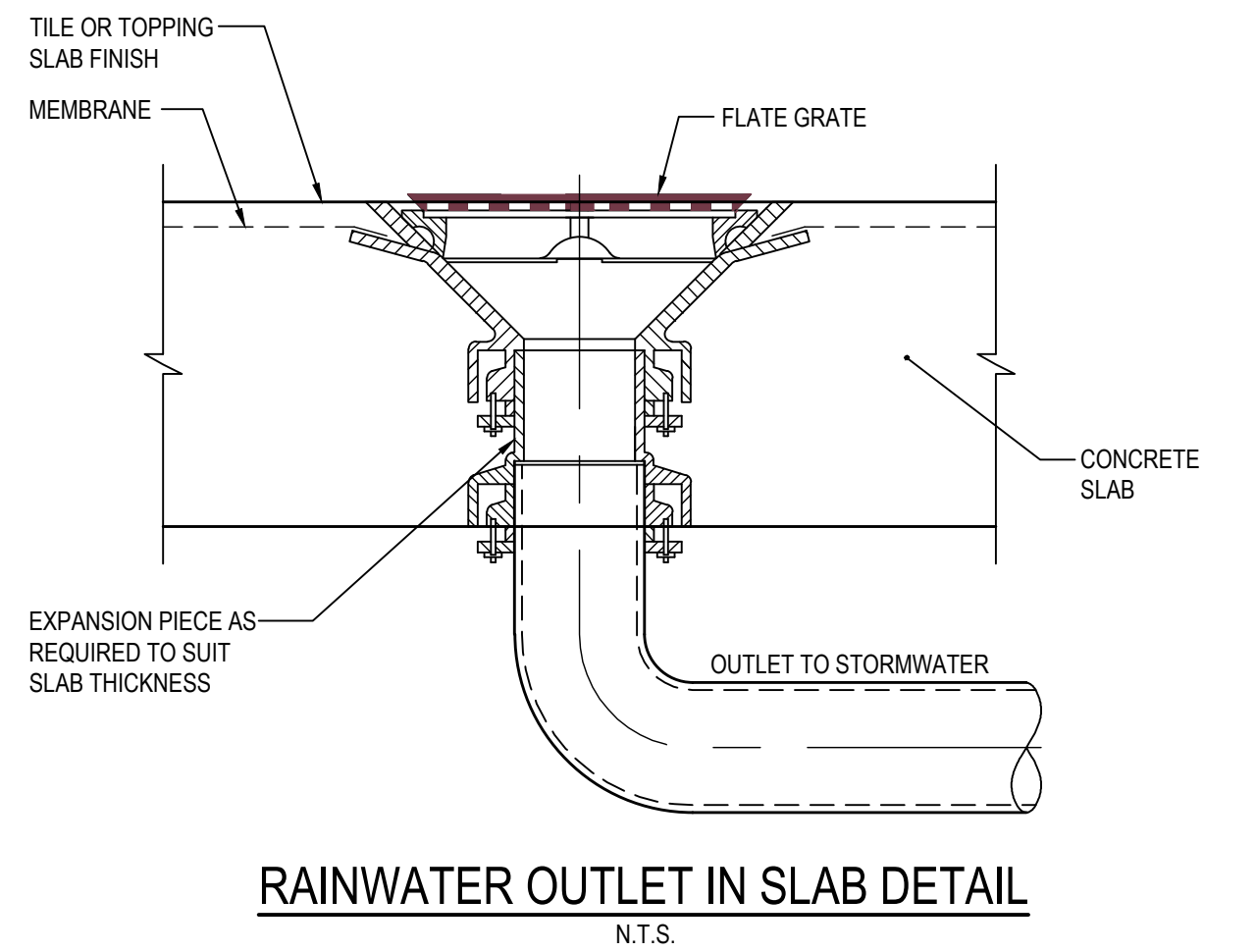
NOTE
STORMWATER PIPE INSTALLATION TO BE IN ACCORDANCE WITH AS3725, AS3500.3, AS2566.1, CURRENT CPAA SPECIFICATIONS AND ALL OTHER RELEVANT STANDARDS



RAINWATER OUTLET DETAIL (UNDER SPORTS FIELD)

NOT TO SCALE

SCHEDULE OF STORMWATER DRAINAGE PITS	
PIT CLEAR INTERNAL DIMENSIONS, SIZE AND TYPE	PIT NUMBER
900X900 WITH CLASS 'B' GALVANISED MILD STEEL,HEEL SAFE, ANTI SLIP GRATE AND FRAME. GRATE TO BE HINGED TO FRAME	P1
600X600 WITH CLASS 'B' GALVANISED MILD STEEL,HEEL SAFE, ANTI SLIP GRATE AND FRAME. GRATE TO BE HINGED TO FRAME	P2
900X900 WITH CLASS 'D' GALVANISED MILD STEEL GRATE AND FRAME. GRATE TO BE HINGED TO FRAME	P3
900X900 WITH CLASS 'B' CAST IRON SOLID COVER AND FRAME. COVER TO BE CONCRETE INFILLED	P4
900X900 WITH CLASS 'D' CAST IRON SOLID COVER AND FRAME. COVER TO BE CONCRETE INFILLED	P5
600X600 WITH CLASS 'B' CAST IRON SOLID COVER AND FRAME. COVER TO BE CONCRETE INFILLED	P6
600X600 WITH CLASS 'D' GALVANISED MILD STEEL AND FRAME. GRATE TO BE HINGED TO FRAME	P7
900X900 WITH CLASS 'B' GALVANISED MILD STEEL,HEEL SAFE, ANTI SLIP GRATE AND FRAME. GRATE TO BE HINGED TO FRAME.PIT TO BE CAST INTO STRUCTURAL SLAB	P8
1800X1800 WITH CLASS 'D' GALVANISED MILD STEEL AND FRAME. GRATE TO BE HINGED TO FRAME	P9
1200X1200 WITH CLASS 'D' GALVANISED MILD STEEL AND FRAME. GRATE TO BE HINGED TO FRAME	P10
1500X1500 WITH CLASS 'D' CAST IRON SOLID COVER AND FRAME. COVER TO BE CONCRETE INFILLED	P11
1200X1200 WITH CLASS 'D' CAST IRON SOLID COVER AND FRAME. COVER TO BE CONCRETE INFILLED	P12
EXISTING PIT TO BE RECONSTRUCTED TO SUIT NEW PIPES	P13

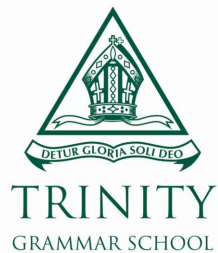


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Client



Architect

PMDL ARCHITECTURE INTERIORS MASTERPLANNING



ACOR Consultants Pty Ltd
Suite 2, Level 1, 33 Herbert Street
St Leonards NSW 2065
T +61 2 9438 5098



Project

TRINITY GRAMMAR SCHOOL - TGS RENEWAL PROJECT

119 PROSPECT RD,
SUMMER HILL NSW 2130

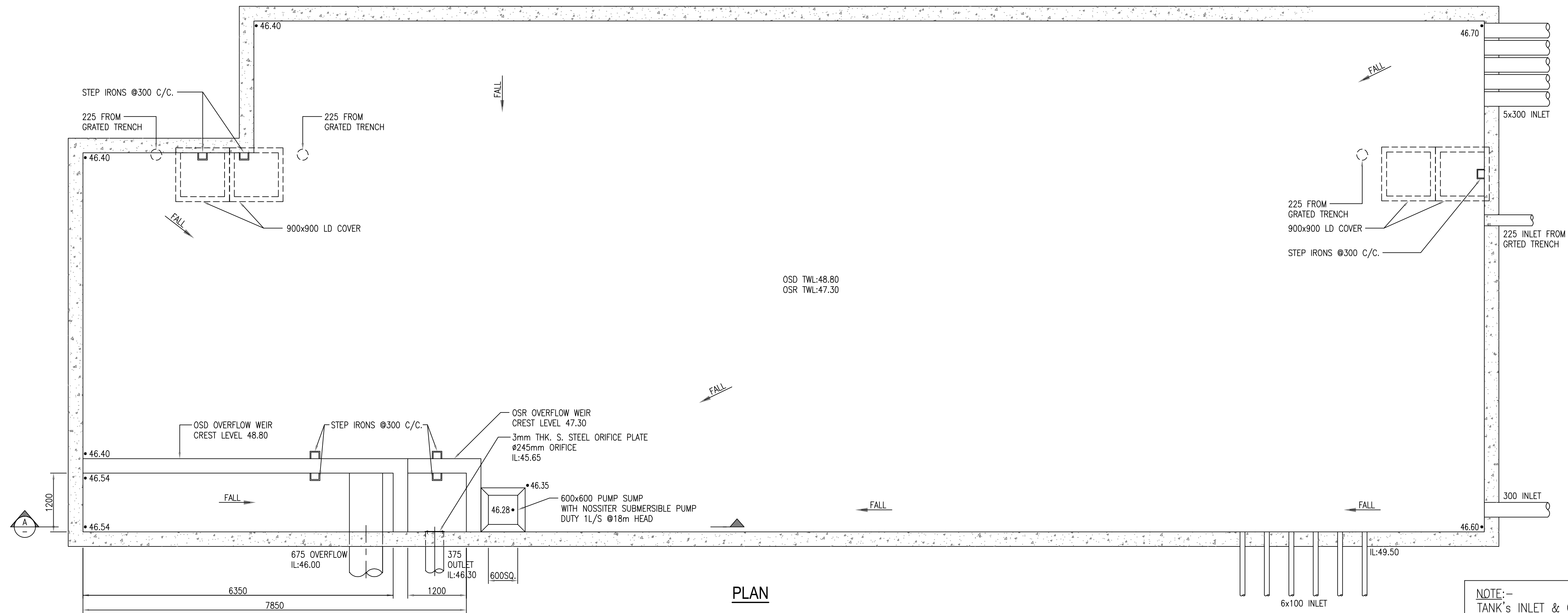
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DETAILS
SHEET 2

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Designed MB	Project No. SY180989	Dwg. No. C1.06	Issue A		

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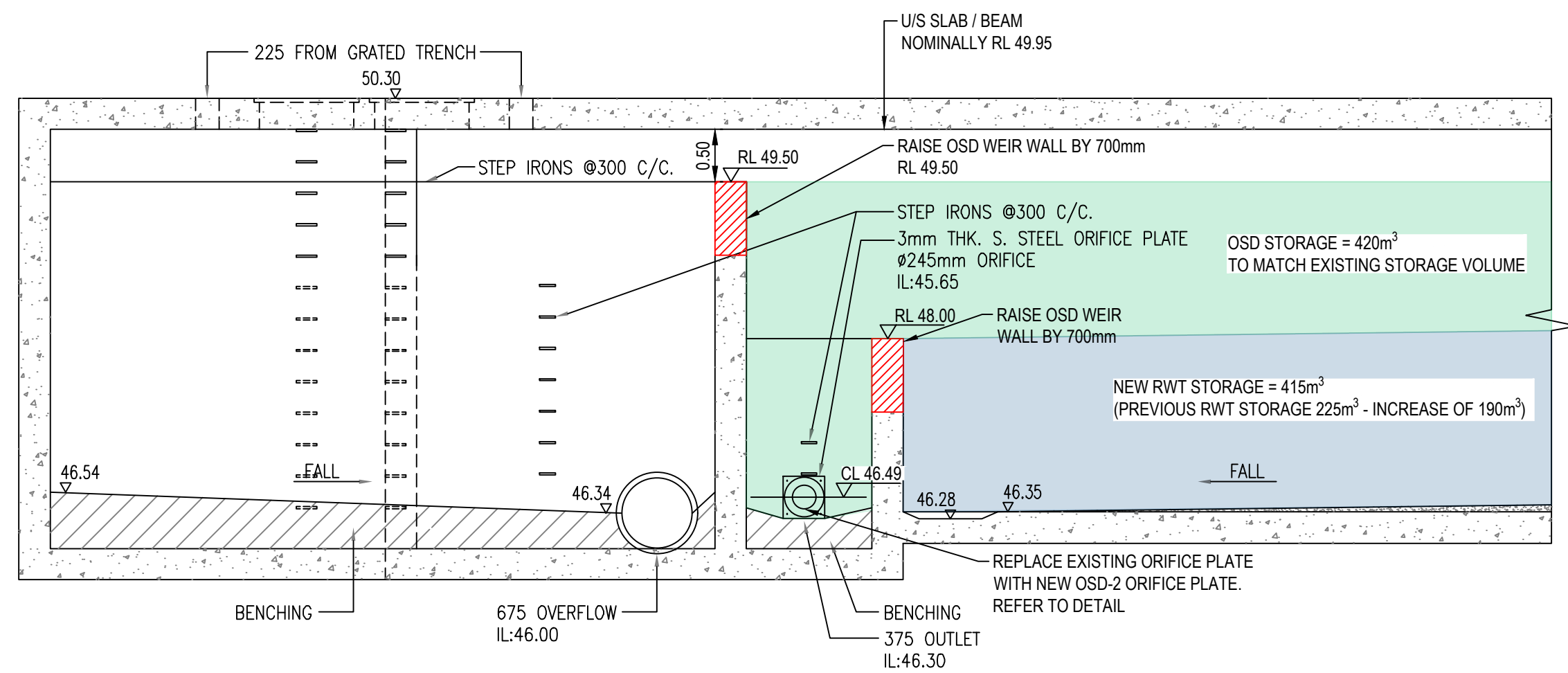
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NOTE: EXISTING OSD CONFIGURATION IS BASED ON AVAILABLE DESIGN
DRAWINGS PREPARED BY LHO GROUP FOR THE OVAL 2 CARPARK
(REF:0808-0015-H06-T) CONFIRMATION OF OSD CONFIGURATION TO BE
UNDERTAKEN PRIOR TO ANY WORKS

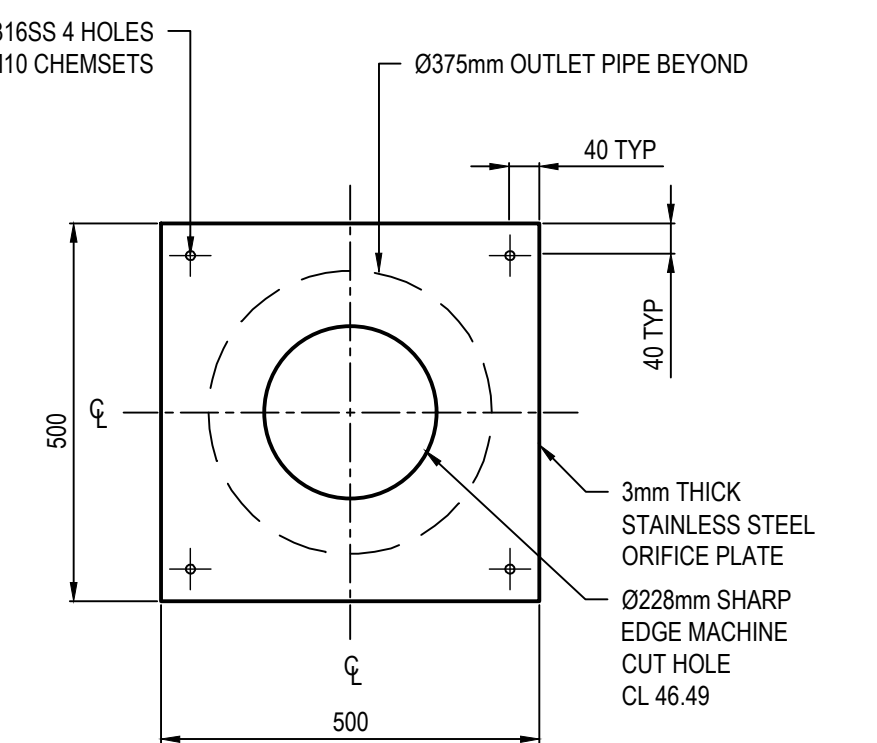


NOTE:-
TANK's INLET & OUTLET TO BE PROTECTED WITH
MOSQUITO PROOF MESH SCREEN (1x1mm OPENING)

RAINWATER RE-USED FOR LANDSCAPE IRRIGATION



SECTION A - A



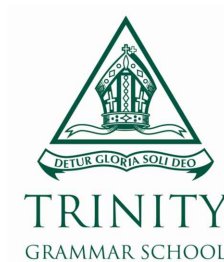
OSD-2 ORIFICE PLATE

SCALE 1:10

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A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB	
Issue	Description	Date	Drawn	Approved	
1	Form at full size				

	Client
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Architect

PMDL ARCHITECTURE
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Project	
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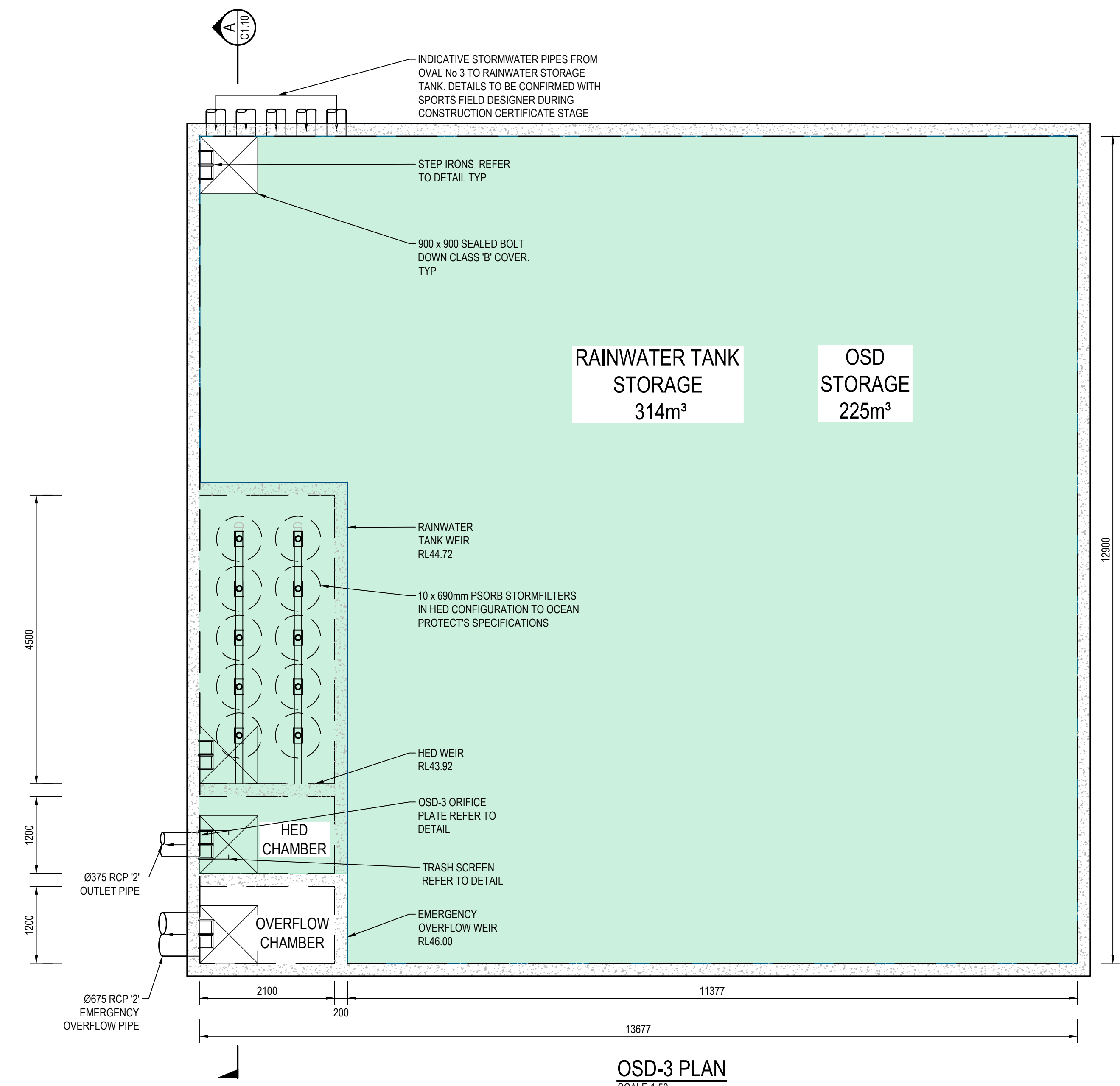
Project
TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

119 PROSPECT RD,
SUMMER HILL NSW 2130

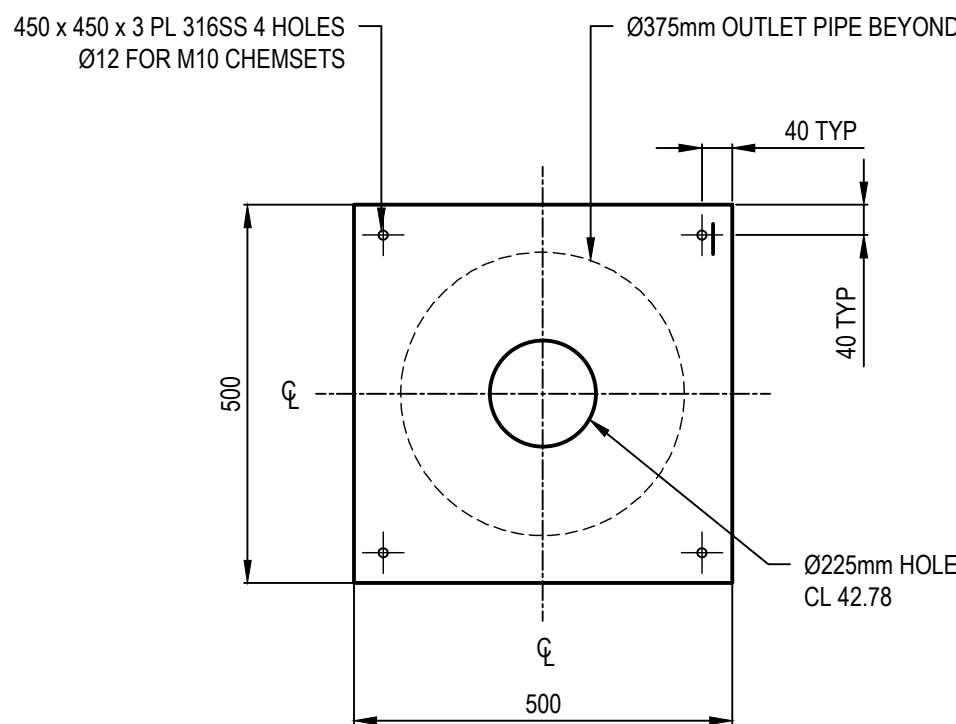
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DETAILS
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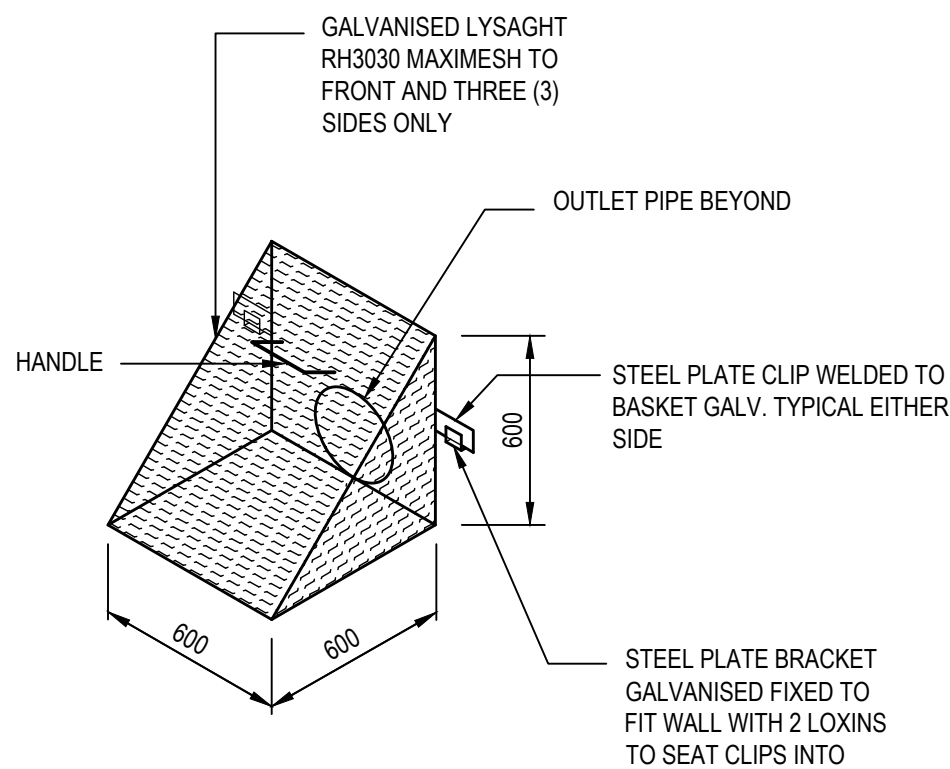
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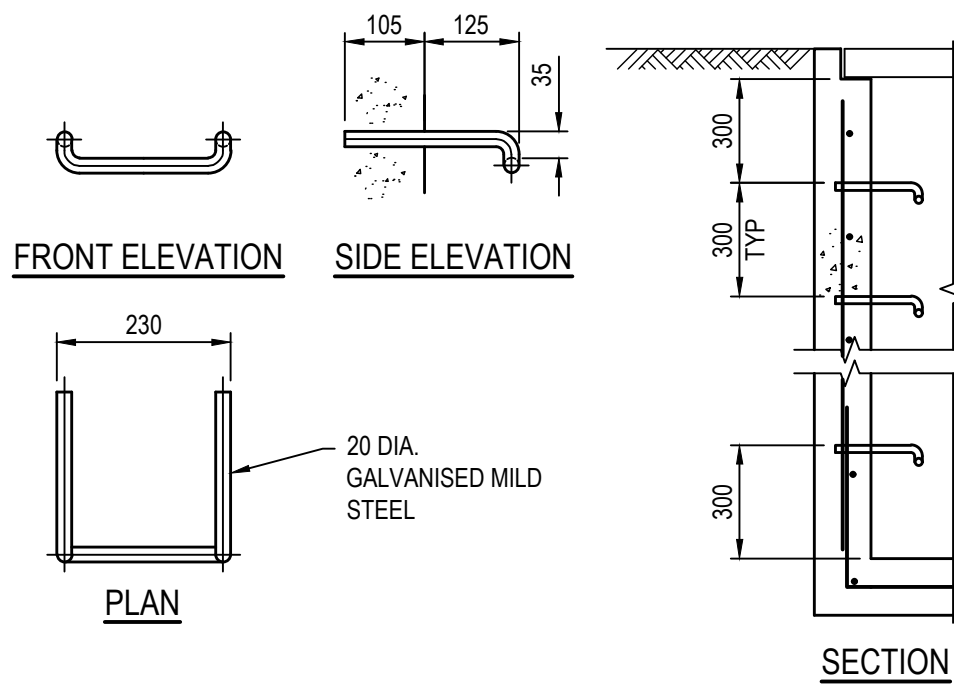
OSD-3 PLAN
SCALE 1:50



OSD-3 ORIFICE PLATE
SCALE 1:10



TRASH SCREEN DETAIL
NTS



STEP IRON DETAIL
N.T.S.

OSD-3 DESIGN CRITERIA

	PRE-DEVELOPMENT	POST-DEVELOPMENT - TO OSD	POST-DEVELOPMENT - DRIVEWAY BYPASS
CATCHMENT AREA	10,000m ²	8350m ²	1020m ²
IMPERVIOUS AREA	0%	65%	98%
20% AEP FLOWS	156 l/s	140 l/s	39 l/s
5% AEP FLOWS	284 l/s	154 l/s	56 l/s
1% AEP FLOWS	459 l/s	174 l/s	77 l/s
OSD INTERNAL SURFACE AREA PROVIDED	-	173.2m ²	-
OSD TANK DEPTH	-	1.28m	-
OSD VOLUME PROVIDED	-	225m ³ (INCLUDING FILTER CHAMBER)	-
OSD VOLUME REQUIRED	-	216.3m ³	-

NOTE:

- REFER TO STORMWATER MANAGMNT REPORT FOR FULL YEO PARK CATCHMENT DISCHARGE RATES AND JUSTIFICATION OF PRE VS POST FLOWS.
- REDUCTION IS POST-DEVELOPMENT CATCHMENT AREA IS DUE TO PAVILION BYPASS FLOWS DIRECTLY TO OVAL 1. REFER TO STROMWATER MANAGEMENT REPORT FOR FURTHER DETAILS

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A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB

Client



Architect

PMDL ARCHITECTURE
INTERIORS
MASTERPLANNING



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Project

TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

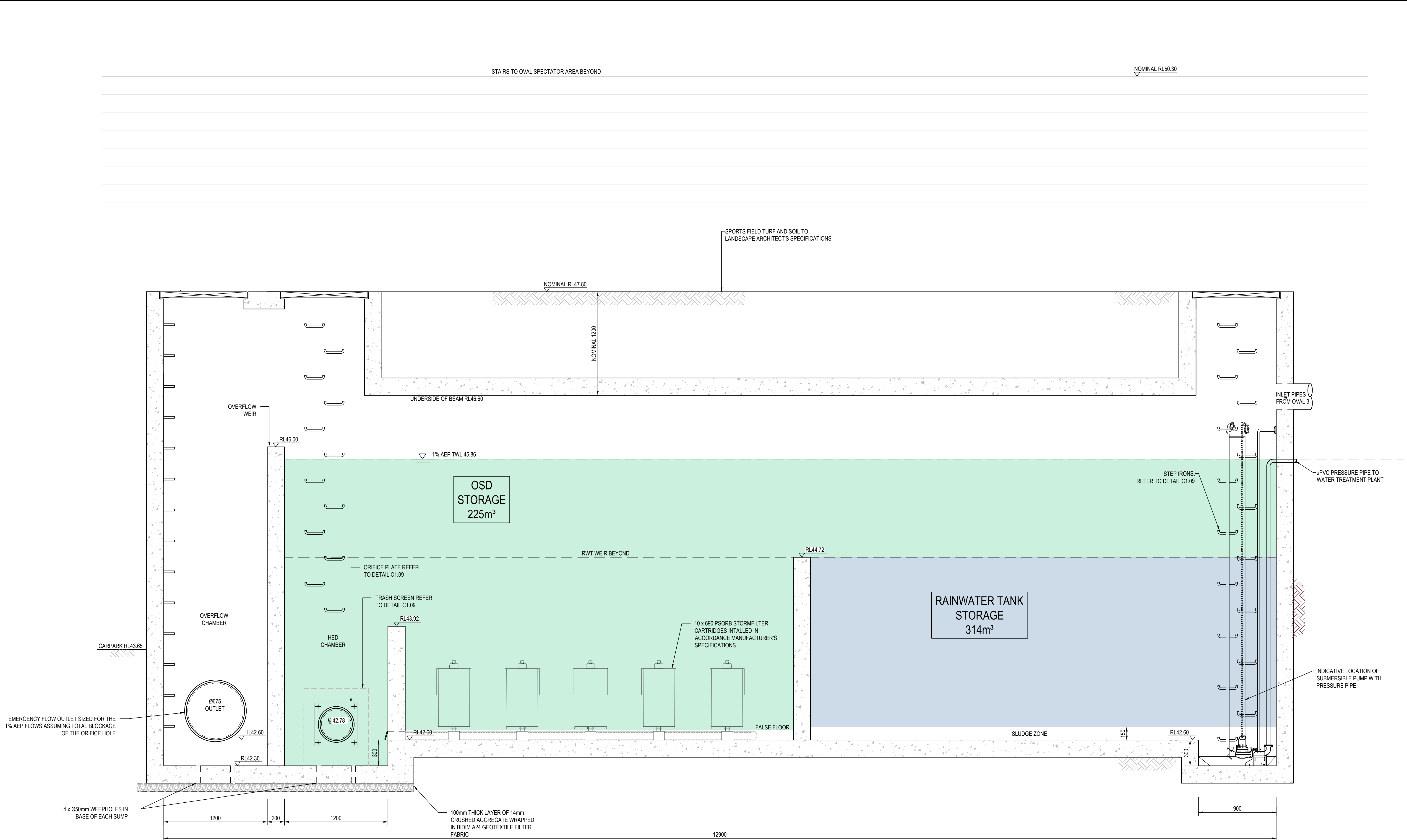
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SUMMER HILL NSW 2130

Drawing Title
DETAILS
SHEET 5

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DK	Feb-20	AS SHOWN			
Designed	Project No.	Dwg. No.	Issue		
MB	SY180989	C1.09	A		

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Feb 20, 2020 - 3:56pm



OSD-3 SECTION A
SCALE = 1:20

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						North
A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB		
Issue	Description	Date	Drawn	Approved		
1						

Client



Architect

PMDL ARCHITECTURE INTERIORS MASTERPLANNING



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Project

TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

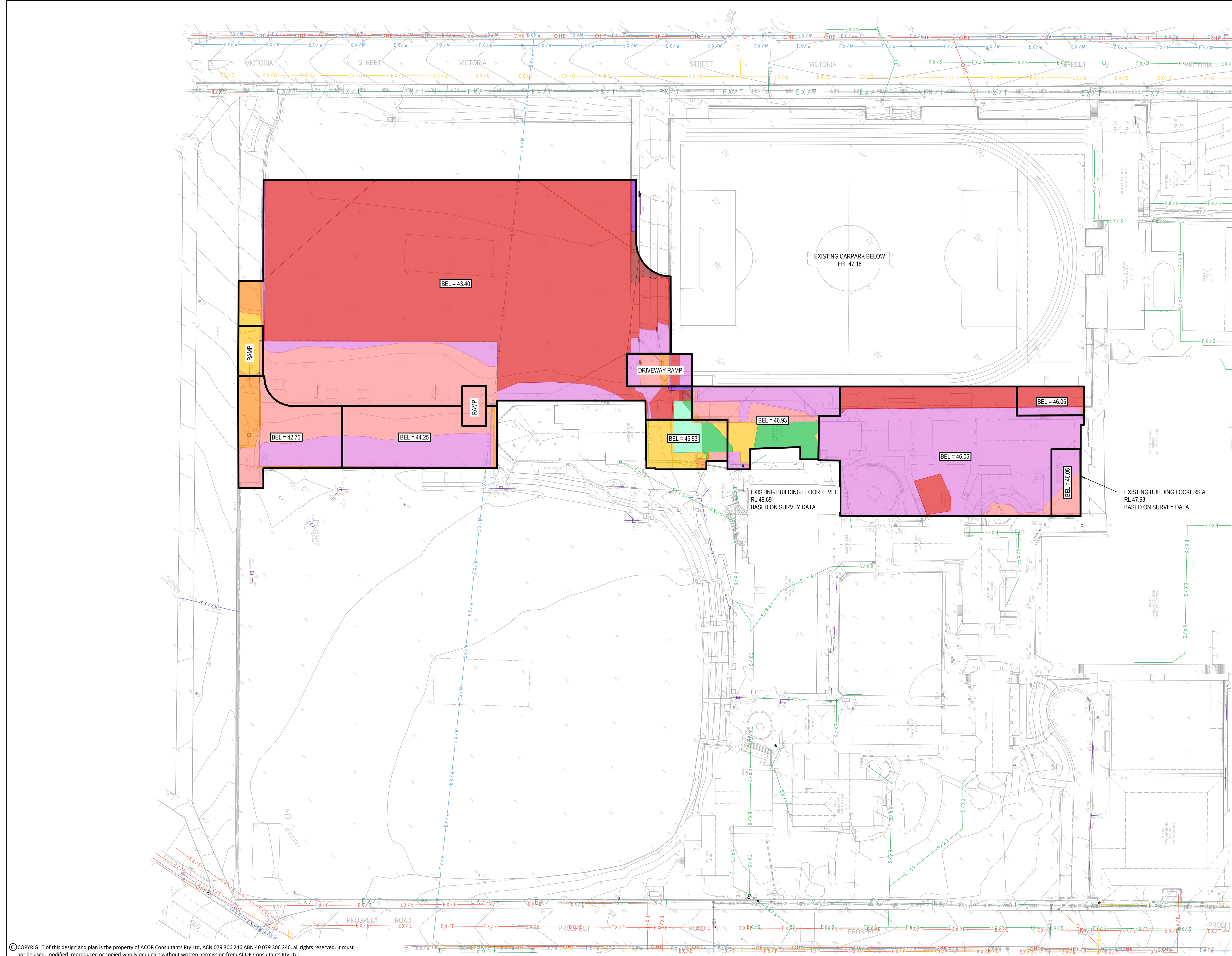
119 PROSPECT RD,
SUMMER HILL NSW 2130

Drawing Title
DETAILS
SHEET 6

Drawn DK	Date Mar-20	Scale AS SHOWN	A1	Q.A. Check	Date
Designed MB	Project No. SY180989	Dwg. No. C1.10	Issue A		

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Page 20 of 20 - 10:07 am



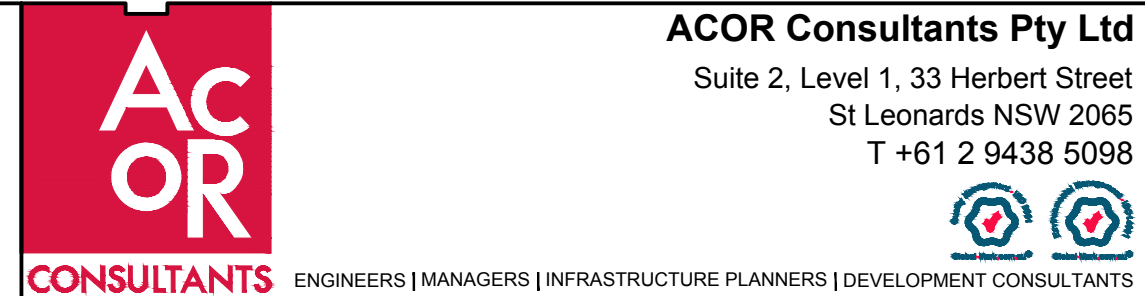
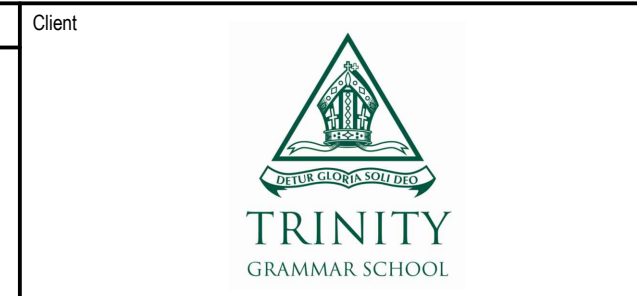
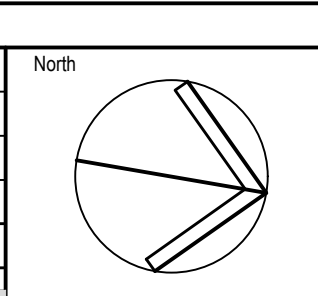
EARTHWORKS QUANTITIES	
TOTAL AREA (11766m²)	
TOTAL CUT	-42873 m³
TOTAL FILL	198 m³
TOTAL BALANCE	-42675 m³ (CUT)
NOMINAL CARPARK AND BUILDING SLAB THICKNESS ALLOWED = 250mm	

LEGEND	
	CUT BETWEEN -7.0m AND -6.0m
	CUT BETWEEN -6.0m AND -5.0m
	CUT BETWEEN -5.0m AND -4.0m
	CUT BETWEEN -4.0m AND -3.0m
	CUT BETWEEN -3.0m AND -2.0m
	CUT BETWEEN -2.0m AND -1.0m
	CUT BETWEEN -1.0m AND 0.0m
	FILL BETWEEN 0.0m AND 1.0m
	FILL BETWEEN 1.0m AND 2.0m

- NOTES**
- BULK EARTHWORKS LEVELS HAVE BEEN SHOWN TO UNDERSIDE OF THE BLINDING LAYER FOR CONCRETE SLAB. SLAB THICKNESS TO BE CONFIRMED BY THE STRUCTURAL ENGINEER DURING DESIGN DEVELOPMENT.
 - PRIOR TO EARTHWORKS COMMENCING ALL VEGETATION ROOTS, DELETERIOUS FILL OR OTHER DELETERIOUS MATERIAL IS TO BE REMOVED.
 - THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED WITH AT LEAST 8 PASSES OF A MINIMUM 10 TONNE DEAD WEIGHT, SMOOTH DRUM VIBRATORY ROLLER. THE FINAL PASS OF PROOF ROLLING SHOULD BE CARRIED OUT WITHOUT VIBRATION AND IN THE PRESENCE OF A GEOTECHNICAL ENGINEER.
 - ANY WEAK SUBGRADE AREAS DETECTED SHOULD BE LOCALLY EXCAVATED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH ENGINEERED FILL IN ACCORDANCE WITH THE COMPACTION NOTES.
 - ALL FILL LAYERS ARE TO ACHIEVE 100% SMDD COMPACTION UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.
 - ALL EARTHWORKS AREAS ARE TO ACHIEVE A MINIMUM ALLOWABLE BEARING CAPACITY AS SPECIFIED BY THE STRUCTURAL ENGINEER.
 - NO BULKING OR COMPACTION FACTORS OR STRIP TOPSOIL/VOLUMES HAVE BEEN CONSIDERED TO THE EARTHWORKS VOLUMES.
 - BULK EARTHWORK CONTOURS HAVE BEEN DESIGNED TO MATCH EXISTING SURVEY LEVELS AND EXISTING CARPARK LEVELS AS APPLICABLE. NO ALLOWANCE HAS BEEN MADE FOR TEMPORARY CONSTRUCTION BATTERS.
 - ALL TOPSOIL SHALL BE RETAINED ON THE DEVELOPMENT SITE AND UTILISED EFFECTIVELY TO ENCOURAGE APPROPRIATE REVEGETATION.

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Issue	Description	Date	Drawn Approved
1cm at full scale			



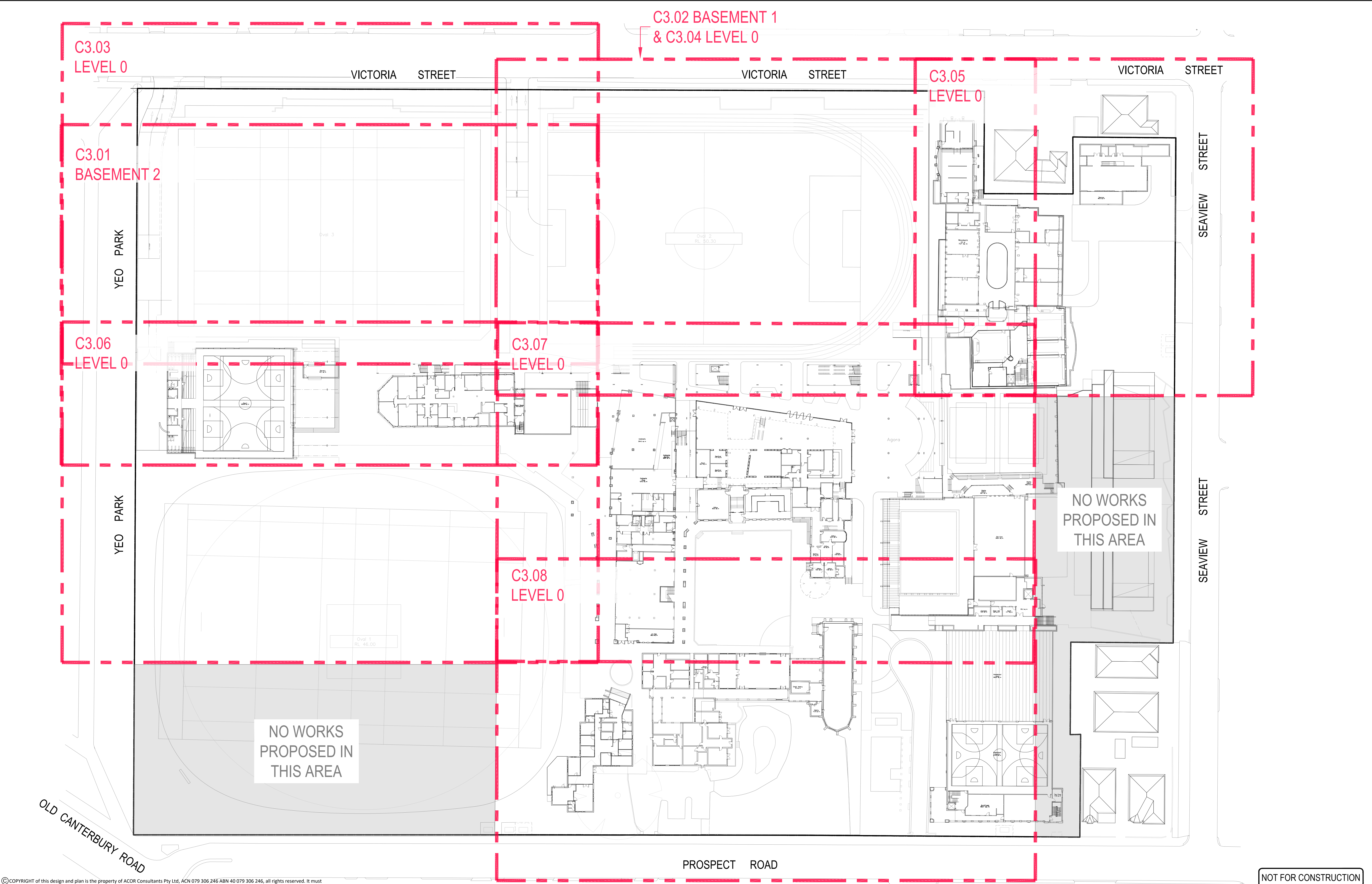
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Project
TRINITY GRAMMAR SCHOOL - TGS RENEWAL PROJECT

119 PROSPECT RD,
SUMMER HILL NSW 2130

Drawing Title BULK EARTHWORKS CUT AND FILL PLAN			
Drawn DK	Date Feb-20	Scale 1:500	A1
Designed MB	Project No. SY180989	Dwg. No. C2.01	Issue A

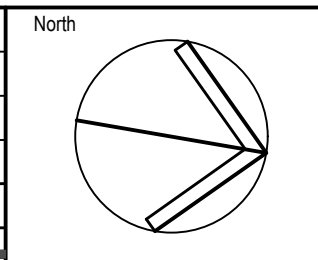
NOT FOR CONSTRUCTION



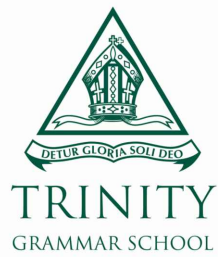
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Issue	Description	Date	DK	MB
A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB



Client



Architect

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Project
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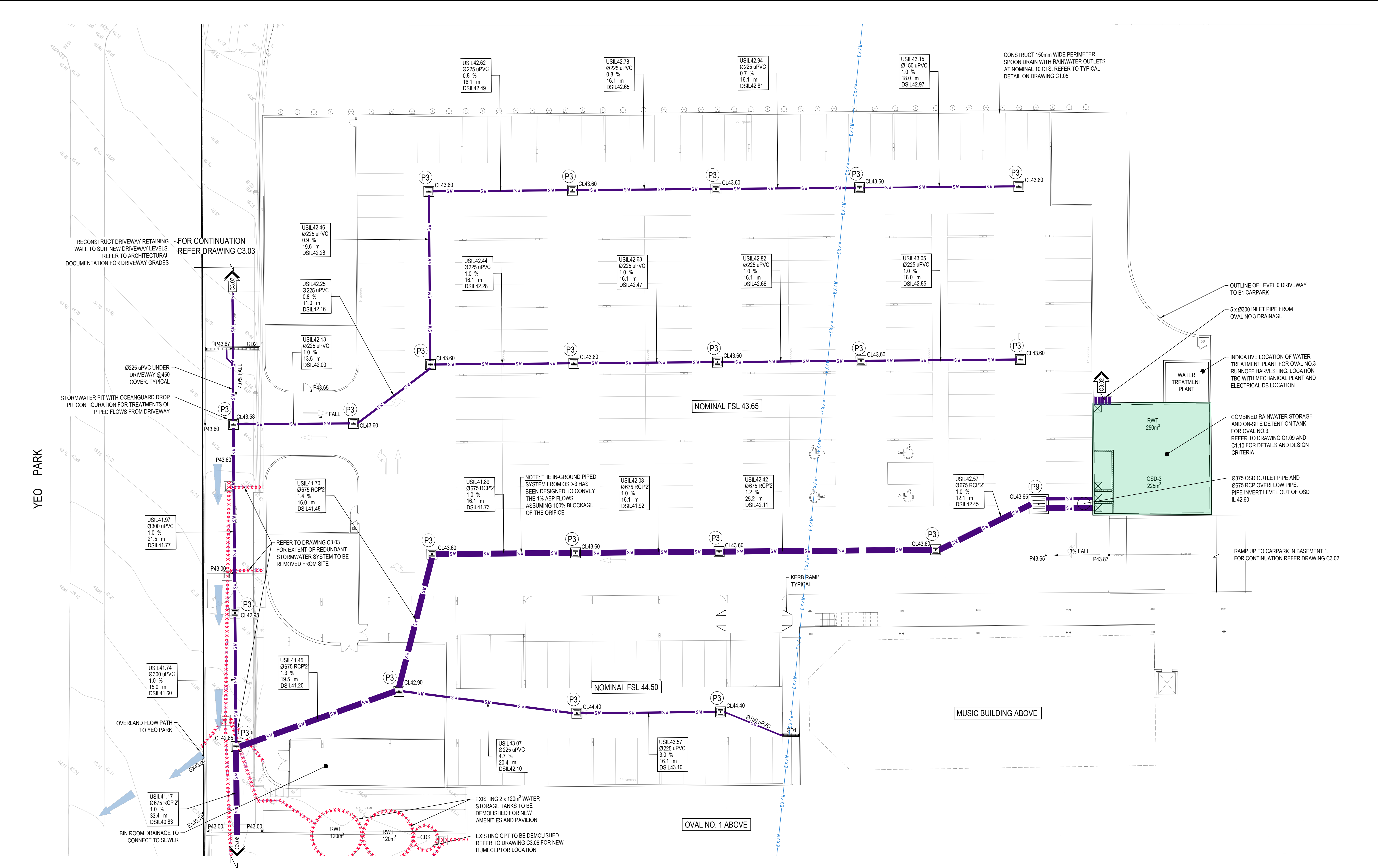
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Drawing Title
KEY PLAN

Drawn	Date	Scale	A1	Q.A. Check	Date
DK	Feb-20	1:500			
Designed	Project No.	Dwg. No.	Issue		
MB	SY180989	C3.00	A		

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P:\2018\TGS Renewal\Drawings\CAD\2020\masterplan\KEY PLAN C3.00.dwg
Feb 20 2020 1:35pm



FOR CONTINUATION REFER DRAWING C3.06

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Issue	Description	Date	Drawn	Approved
A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB

North

Client

Trinity Grammar School

Architect

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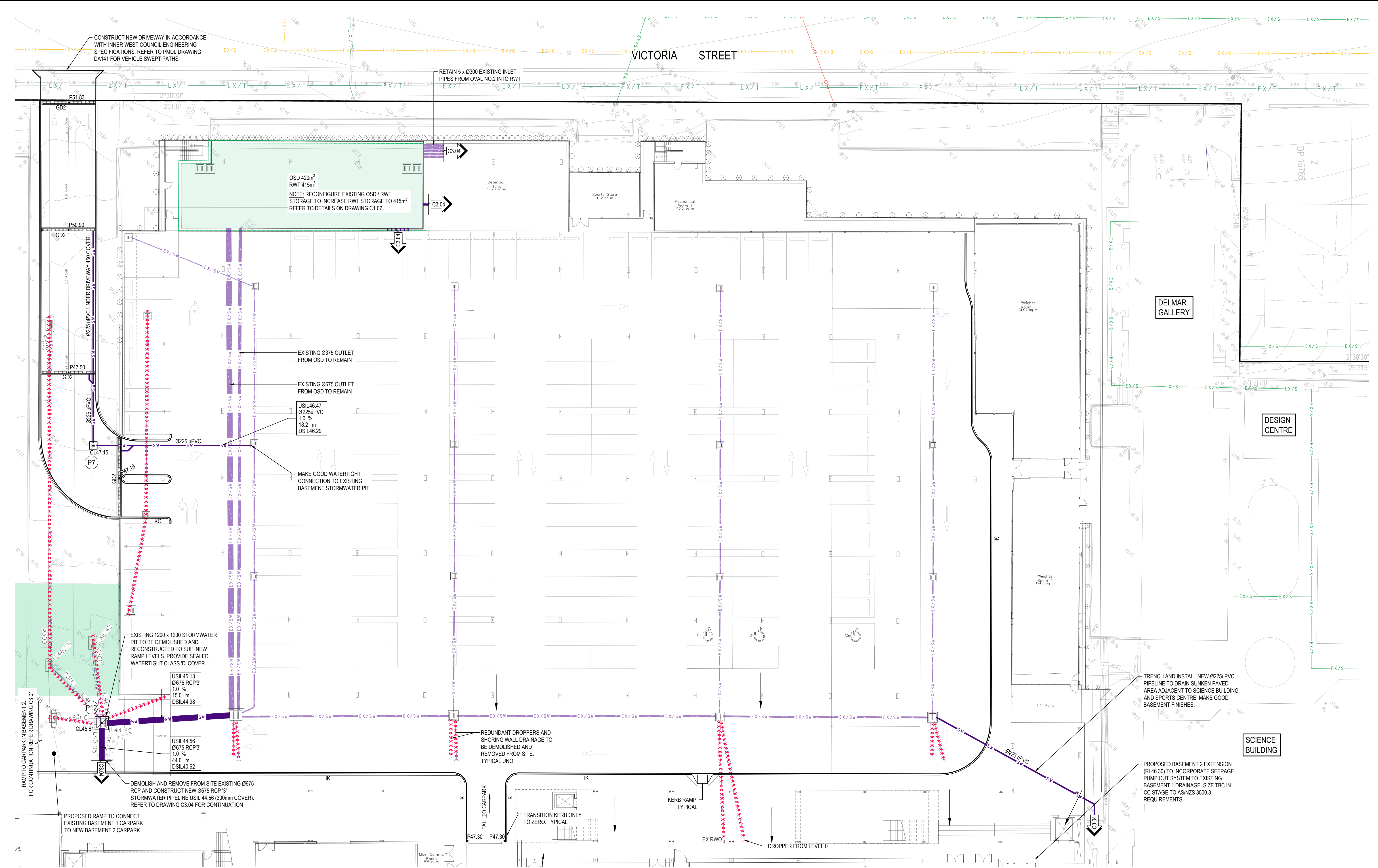
Project
TRINITY GRAMMAR SCHOOL - TGS RENEWAL PROJECT
119 PROSPECT RD, SUMMER HILL NSW 2130

Drawing Title
**CIVIL WORKS PLAN
SHEET 1
BASEMENT 2**

Drawn	Date	Scale	A1	Q.A. Check	Date
DK	Feb-20	1:200			

Designed	Project No.	Dwg. No.	Issue
MB	SY180989	C3.01	A

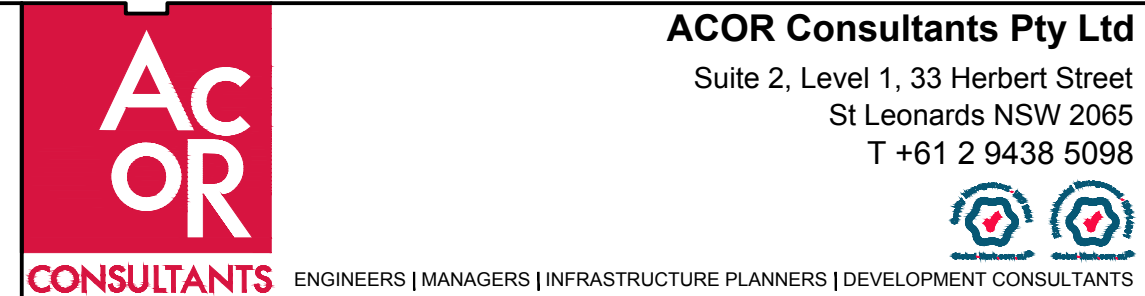
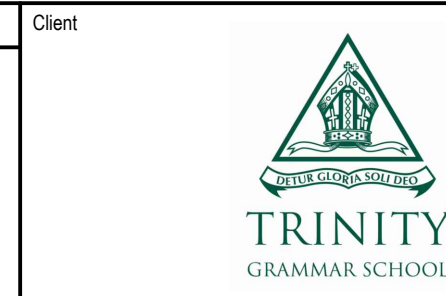
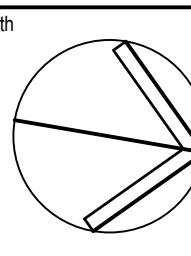
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A		20.02.20	DK	MB
Issue	Description	Date	Drawn	Approved
1	ISSUE FOR DEVELOPMENT APPLICATION			

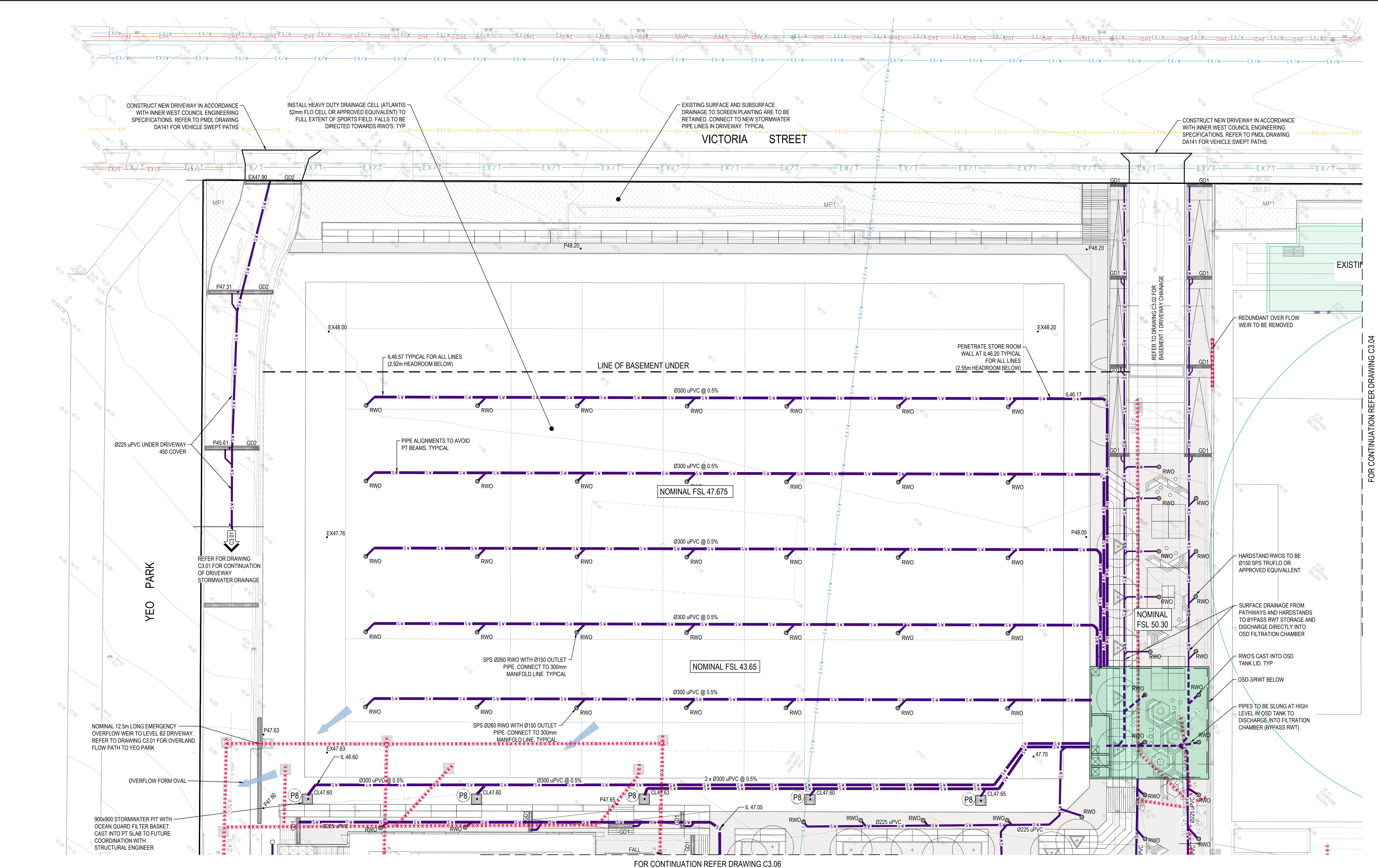


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SUMMER HILL NSW 2130

Drawing Title		CIVIL WORKS PLAN		SHEET 2		BASEMENT 1	
Drawn	Date	Scale	A1	Q.A. Check	Date	Drawn	Date
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Designed	Project No.	Dwg. No.	Issue				
MB	SY180989	C3.02	A				

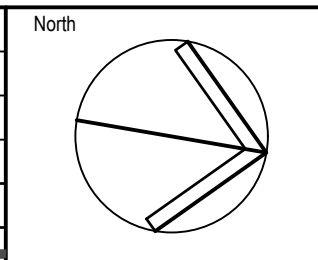
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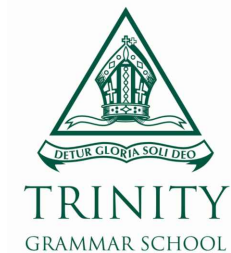
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A		20.02.20		DK		MB	
Issue	Description	Date	Drawn	Checked	Approved	Issue	Description
1	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB			



Client



Architect

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Project

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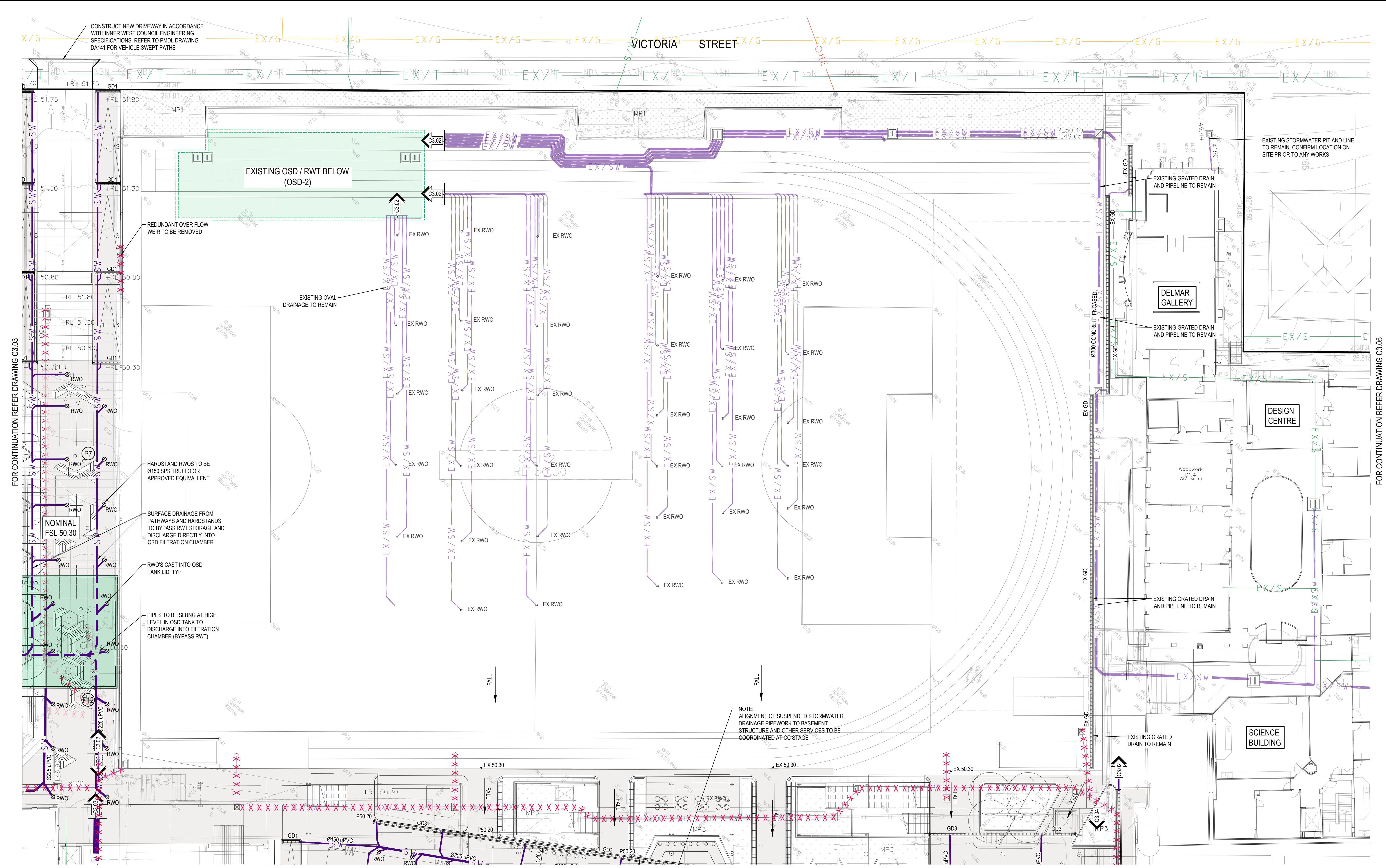
Drawing Title
CIVIL WORKS PLAN
SHEET 3
LEVEL 0

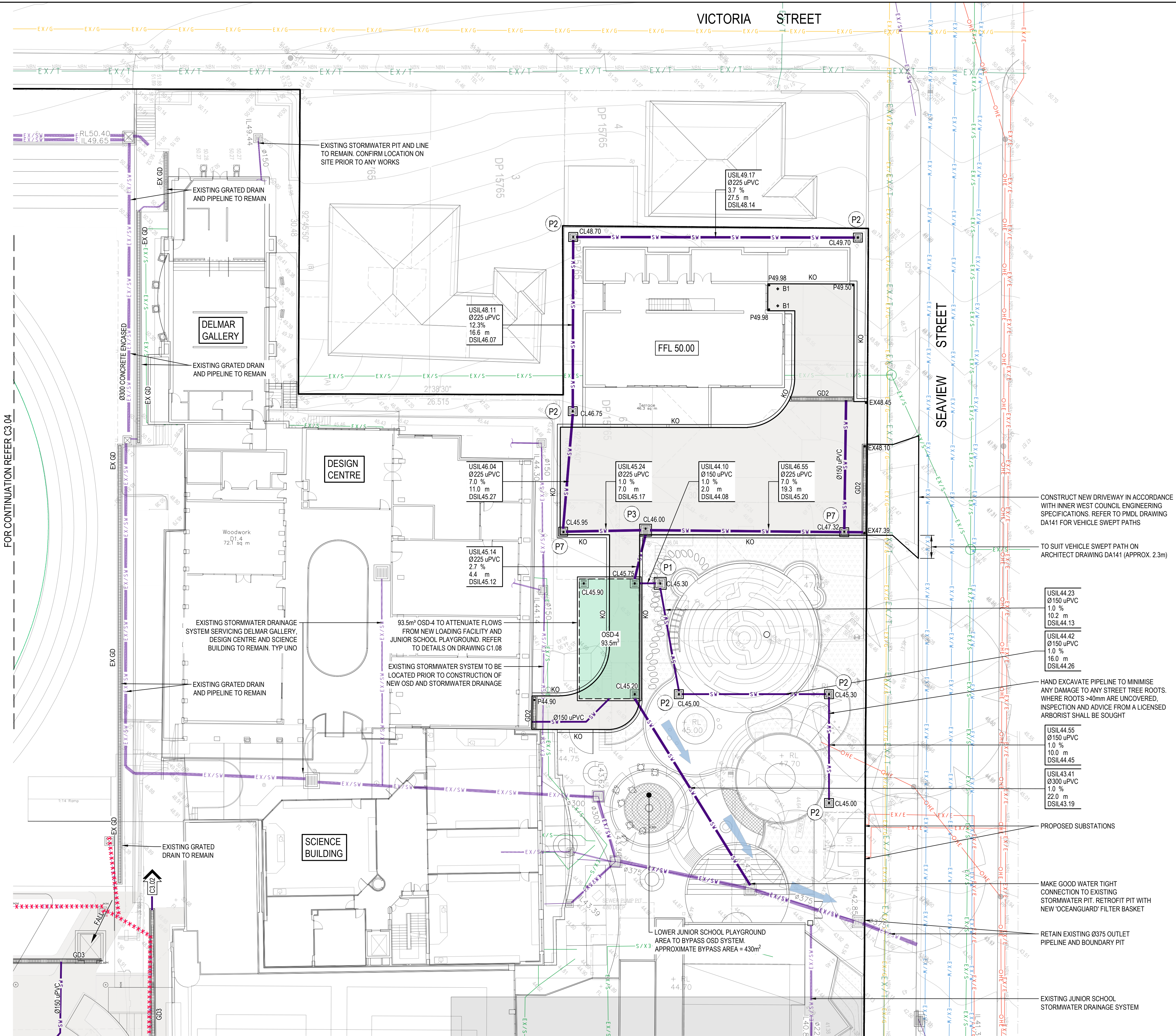
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Designed	Project No.	Dwg. No.	Issue		
MB	SY180989	C3.03	A		

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FOR CONTINUATION REFER DRAWING C3.04

PROJECT: TRINITY GRAMMAR SCHOOL - TGS RENEWAL PROJECT, C:\ACOR\Drawings\TGS_Renewal_C3.03.dwg, 20.02.20, 1:200



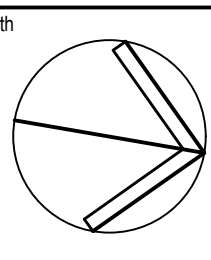


FOR CONTINUATION REFER C3.04

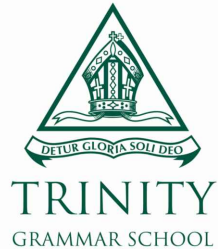
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A		21.02.20	DK	MB
Issue	Description	Date	Drawn	Approved
1	ISSUE FOR DEVELOPMENT APPLICATION	21.02.20	DK	MB



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Architect

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Project

TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

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Drawing Title
CIVIL WORKS PLAN
SHEET 5
LEVEL 0

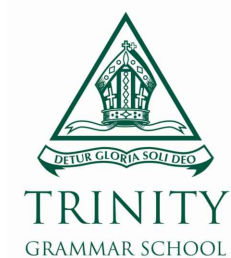

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Designed	Project No.	Dwg. No.	Issue		
MB	SY180989	C3.05	A		

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North


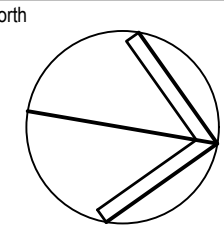


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Drawn DK	Date Feb-20	Scale 1:200	A1	Q.A. Check	Date
Designed MB	Project No. SY180989			Dwg. No. C3.06	Issue A

A	ISSUE FOR DEVELOPMENT APPLICATION	21.02.20	DK MB
Issue	Description	Date	Drawn Approved
0	10m at full scale		20m



TRINITY
GRAMMAR SCHOOL

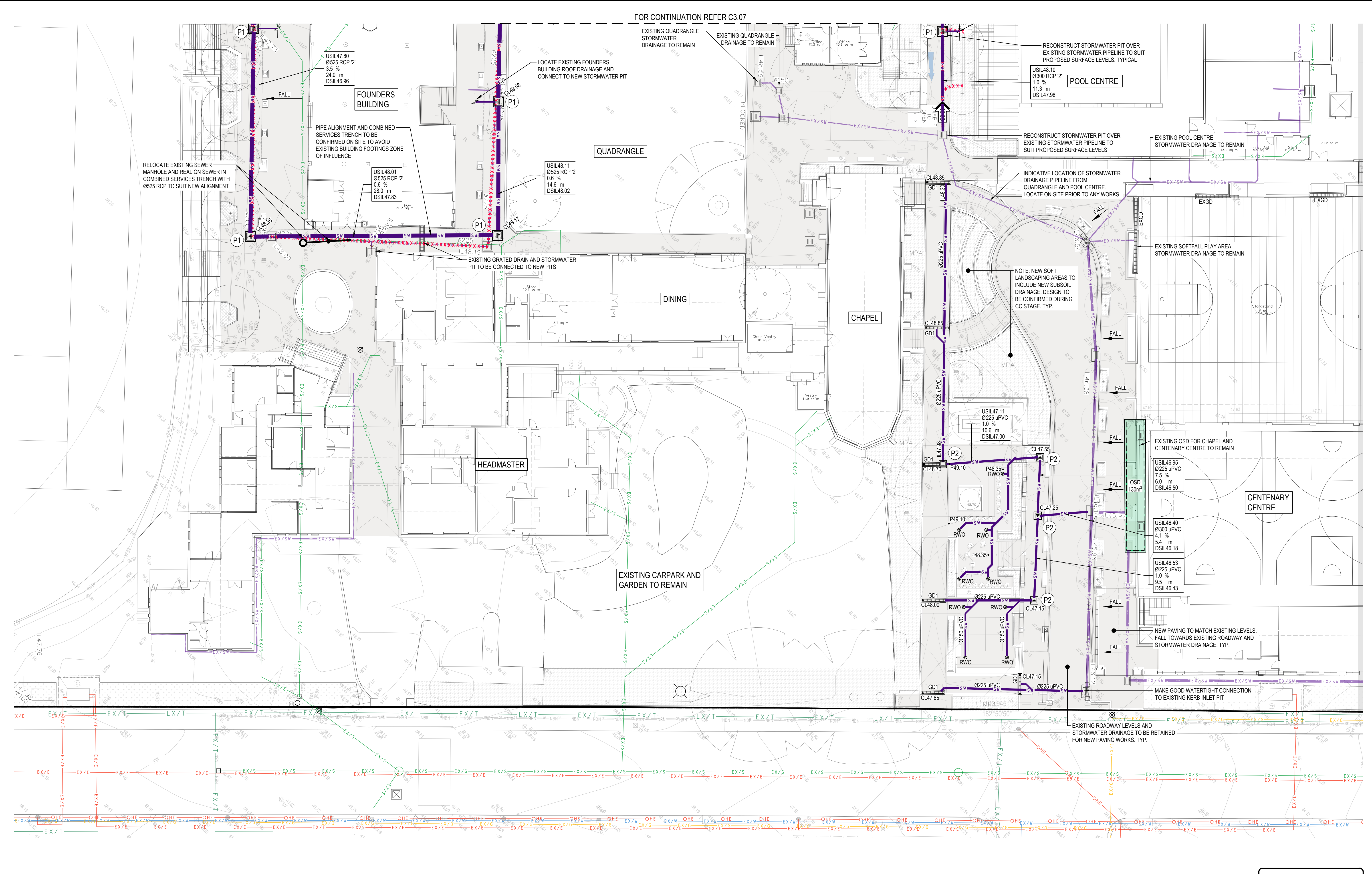
PMDL  ARCHITECTURE
INTERIORS
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Drawn DK	Date Feb-20	Scale 1:200	A1	Q.A. Check		Date
Designed MB	Project No. SY180989			Dwg. No. C3.07	Issue A	

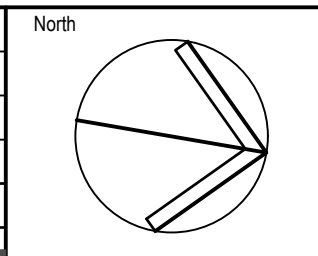
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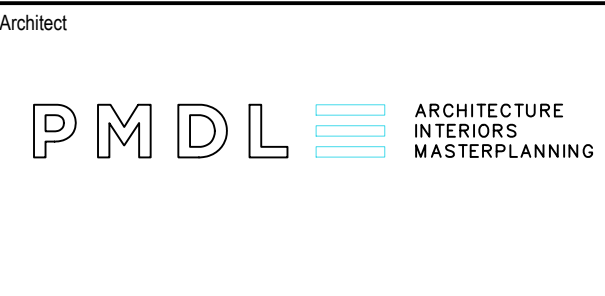
Issue	Description	Date	Drawn	Approved
A	ISSUE FOR DEVELOPMENT APPLICATION	21.02.21	JH	MB



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Architect

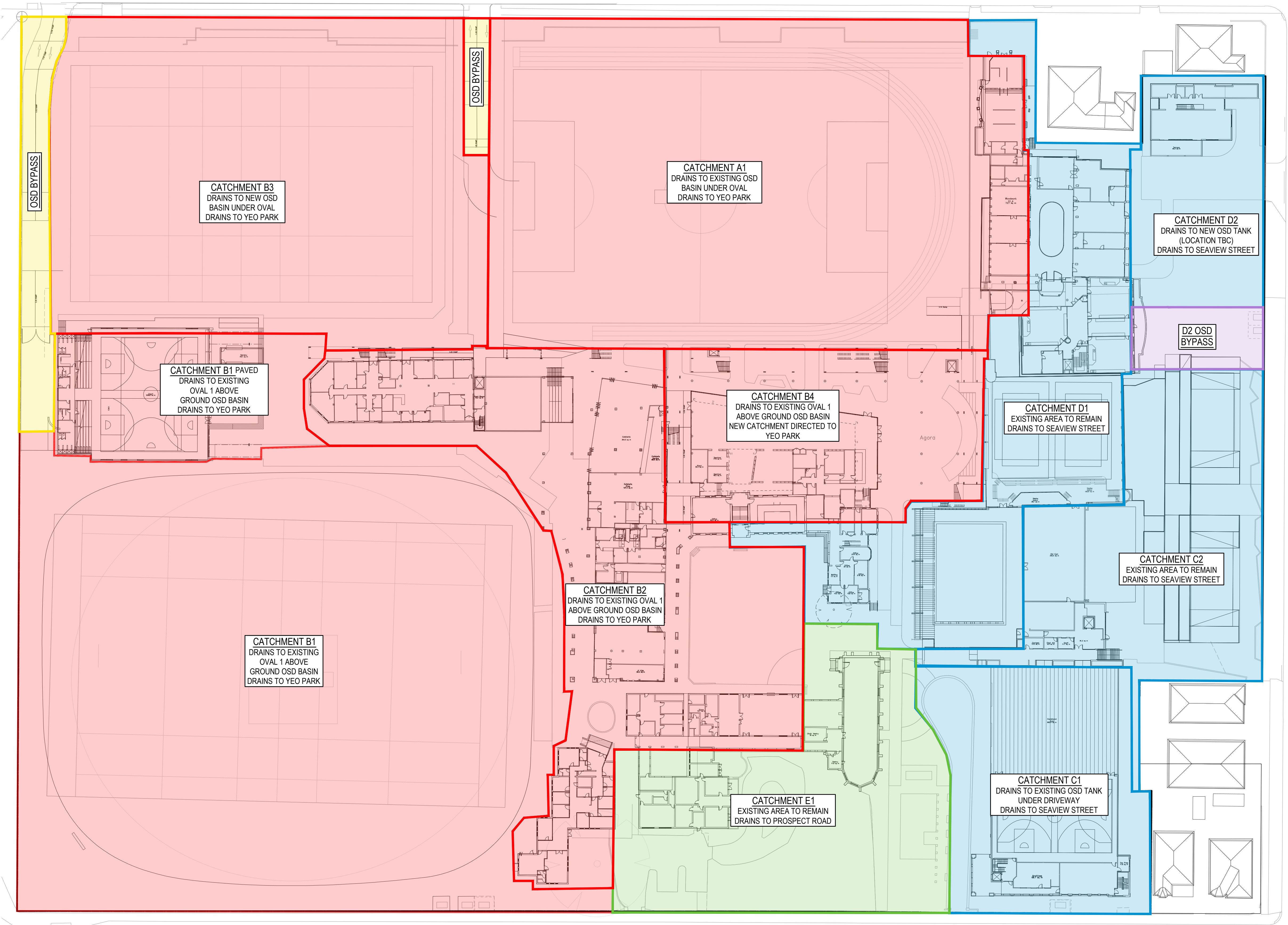


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Drawing Title		CIVIL WORKS PLAN		SHEET 8		LEVEL 0	
Drawn	Date	Scale	A1	Q.A. Check	Date	Drawn	Date
DK	Mar-20	1:201					
Designed	Project No.	Dwg. No.	Issue				
MB	SY180989	C3.08	A				

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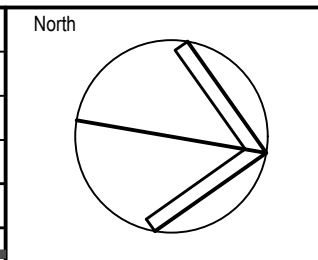


CATCHMENT SUMMARY					
CATCHMENT NO.	DESCRIPTION	AREA	% IMPERVIOUS	TREATMENT MEASURES	SUB CATCHMENT
A1	NO.2 OVAL (SYNTHETIC)	10,750	100	TO LEVEL B1 RWT AND HUMECEPTOR	YEO PARK
B1	NO.1 OVAL (GRASS)	15,050	0	EXCLUDED - TO REMAIN AS PER PRE-DEVELOPMENT CONDITIONS	
	HARDSTAND, MULTIPURPOSE PAVILION (ROOF)	2,000	100	TO HUMECEPTOR	
B2	MUSIC HALL, QUAD, DINNING, FOUNDERS BUILDING (ROOF)	6800	100	TO OCEAN GUARDS AND HUMECEPTOR	
	QUADRANGLE		52		
B3	NO.2 OVAL	8,350	0	TO LEVEL B2 RWT AND STORMFILTERS	
B4	LIBRARY	3,300	0 (MUSIC) 65 (DRAINS)	TO OCEAN GUARDS AND HUMECEPTOR	
OSD BYPASS	DRIVEWAY BYPASS CATCHMENT	1020	100	HUMCEPTOR	BYPASS (YEO PARK)
C1	CENTENARY CENTRE	3,050	100	EXCLUDED - NOT TO BE REDEVELOPMENT	SEAVIEW STREET
C2	HALL, JUNIOR SCHOOL	3,850	85	EXCLUDED - NOT TO BE REDEVELOPMENT	
D1	QUAD, POOL, SPORT CENTRE, SCIENCE, DESIGN	4,800	95	EXCLUDED - NOT TO BE REDEVELOPMENT	
D2	NEW MAINTENANCE, JUNIOR SCHOOL PLAY	2,350	85	TO OCEANGUARDS AND STORMFILTERS	
D2	OSD BYPASS	430	75	TO OCEAN GUARDS	SEAVIEW STREET
E1	HEADMASTER'S RESIDENCE, CHAPEL	4,300	70	EXCLUDED - NOT TO BE REDEVELOPMENT	PROSPECT ROAD
	TOTAL AREA	66,050			

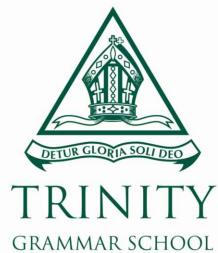
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A	ISSUE FOR DEVELOPMENT APPLICATION	21.02.20	DK	MB



Client



Architect

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Project

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TGS RENEWAL PROJECT

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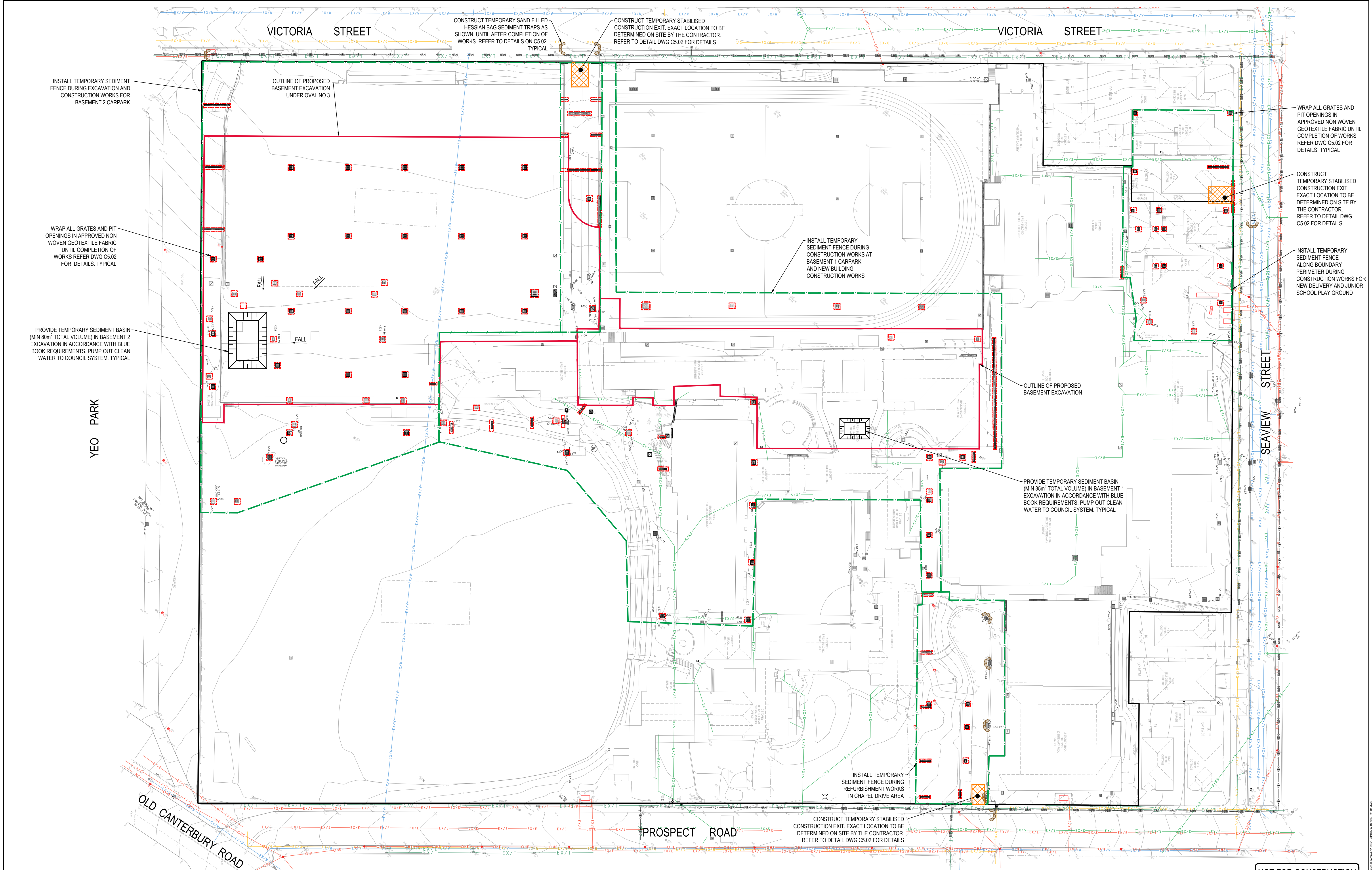
Drawing Title

OSD CATCHMENT PLAN

Drawn	Date	Scale	A1	Q.A. Check	Date
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Designed	Project No.	Dwg. No.	Issue		
MB	SY180989	C3.50	A		

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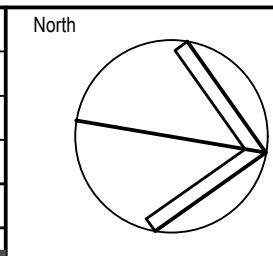
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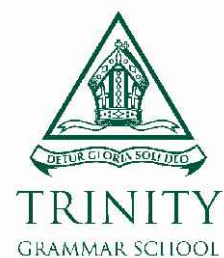
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Issue	Description	Date	Drawn	Approved
A	ISSUE FOR DEVELOPMENT APPLICATION	20.02.20	DK	MB



Client



Architect

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Project
TRINITY GRAMMAR SCHOOL -
TGS RENEWAL PROJECT

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SUMMER HILL NSW 2130

Drawing Title
SOIL EROSION AND AND SEDIMENT CONTROL PLAN

Drawn	Date	Scale	A1	Q.A. Check	Date
DK	Feb-20	1:500			
Designed	Project No.	Dwg. No.	Issue		
MB	SY180989	C5.01	A		

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