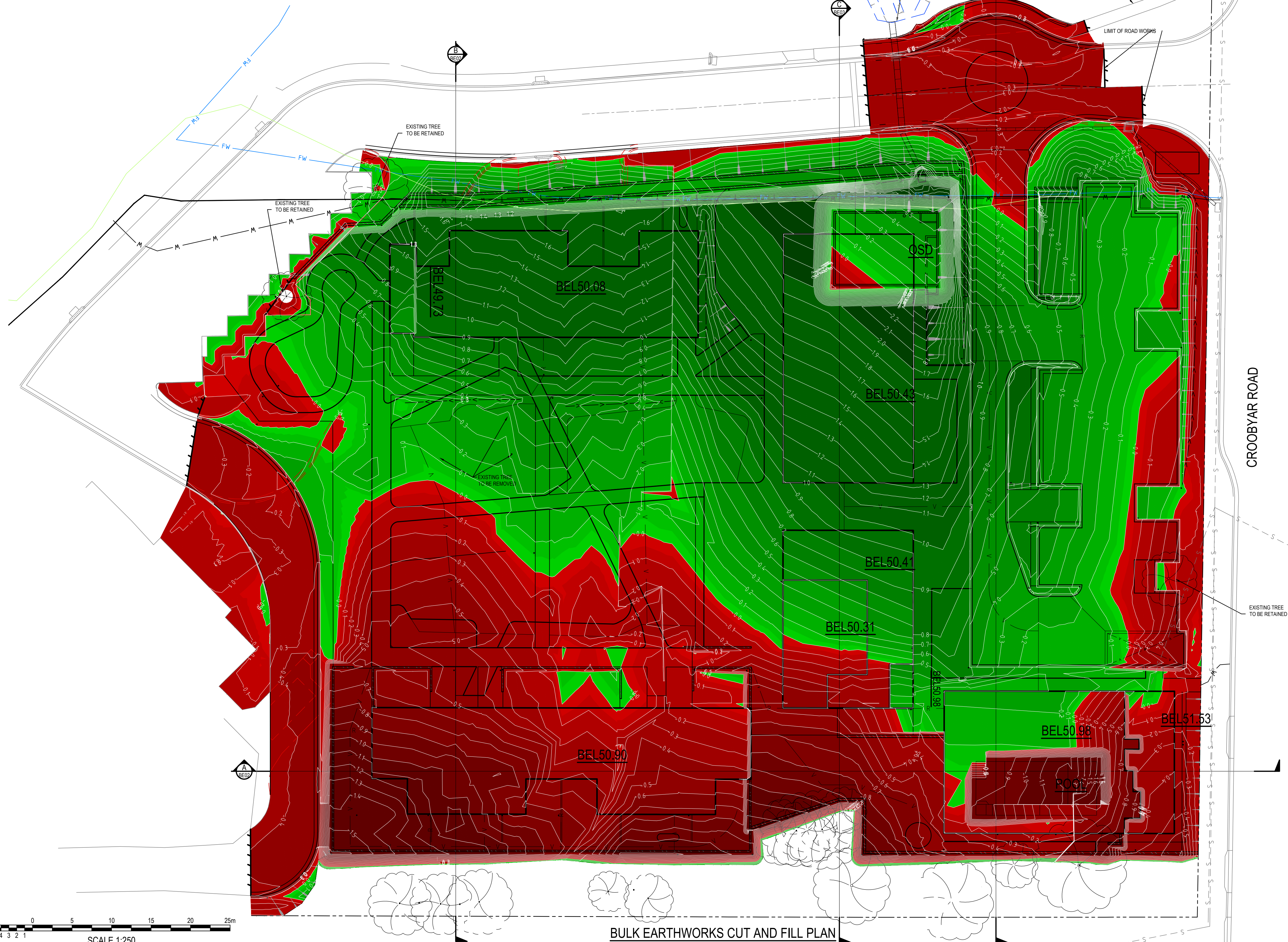
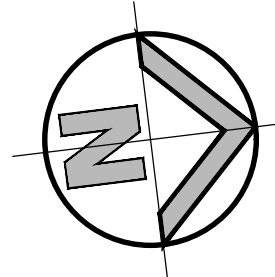




LEGEND

---	EXISTING BOUNDARY
-0.50-	DEPTH CONTOUR FOR FILL
-0.50-	DEPTH CONTOUR FOR CUT

NOTES:

- CONTOURS SHOW LEVEL DIFFERENCE BETWEEN STRIPED EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS

DEPTH RANGE				
Lower_value	Upper_value	Colour		
-6	to	-4	Meters	
-4	to	-2	Meters	
-2	to	-1	Meters	
-1	to	-.8	Meters	
-.8	to	-.6	Meters	
-.6	to	-.4	Meters	
-.4	to	-.2	Meters	
-.2	to	-.1	Meters	
-.1	to	-.05	Meters	
-.05	to	.0	Meters	
.0	to	.05	Meters	
.05	to	.1	Meters	
.1	to	.2	Meters	
.2	to	.4	Meters	
.4	to	.6	Meters	
.6	to	.8	Meters	
.8	to	1	Meters	
1	to	2	Meters	
2	to	4	Meters	
4	to	6	Meters	

EARTHWORKS QUANTITIES

(APPROXIMATE ONLY)
NOT TO BE USED FOR CONTRACTUAL PURPOSES. TENDERERS TO DETERMINE VOLUMES USING THEIR OWN METHOD OF CALCULATION.

- EARTHWORKS QUANTITIES -	
TOTAL AREA (1.15 ha)	
CUT	2030 m³
FILL	4280 m³
BACK FILL WITH SITE EXCAVATED MATERIAL	320m³
EXCESS OF FILL	2570 m³
TOPSOIL STRIPPING "100mm" OF 1150m² NOT INCLUDED IN CALCULATION	
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION	

PAVEMENT THICKNESS "INCLUDING BEDDING THICKNESS"

CARPARK PAVEMENT	400	mm
LANDSCAPE	220	mm
FOOTPATH	220	mm
ROAD PAVEMENT	450	mm
BUILDING SLAB PAVEMENT	200/220/320	mm
PROPOSED POOL PAVEMENT	250	mm

FOR TENDER ONLY

SURVEY INFORMATION
SURVEYED BY:
PHILLIP BROWN LAND SURVEYORS
DATUM: AHD
ORIGIN OF LEVELS: SSM 42008 RL 53 019

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR TENDER	JK	TR	27.07.2021					
03	ISSUED FOR CO-ORDINATION	LC	TR	21.05.2021					
02	ISSUED FOR TENDER	JK	TR	26.02.2021					
01	ISSUED FOR TENDER	JK	TR	15.02.2021					

Client
SCHOOL INFRASTRUCTURE NSW
Architect
GROUP GSA

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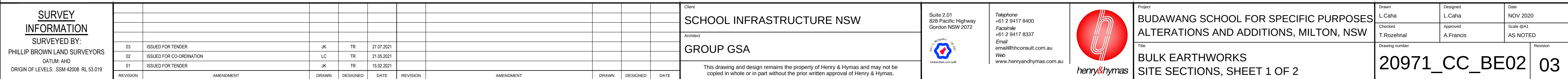
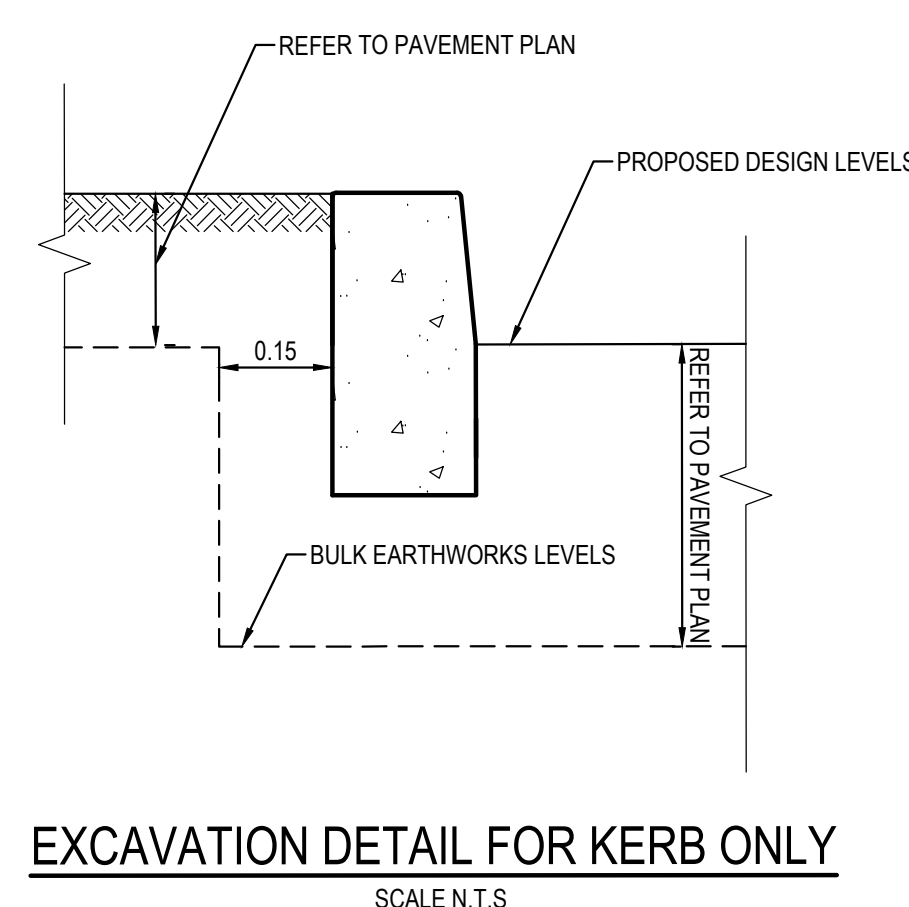


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Project
**BUDAWANG SCHOOL
ALTERATIONS AND ADDITIONS, MILTON, NSW**
Title
BULK EARTHWORKS CUT AND FILL PLAN

Drawn L.Caha	Designed L.Caha	Date NOV 2020
Checked T.Rozehnal	Approved A.Francis	Scale (B/A) 1:250
Drawing number 20971_CC_BE01		Revision 04



[illegible]

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SHOALHAVEN CITY COUNCIL 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 SHOALHAVEN CITY COUNCIL 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.



- 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 VIA PHYSICAL INVESTIGATION OR GROUND PENETRATING RADAR 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.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE LTS LOCKEY REGISTERED SURVEYORS NSW. 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.

ORIGIN OF LEVELS SSM 86293 RL 71.749 AHD IN SMITH STREET
DATUM A.H.D.

SCALE: N.T.S.

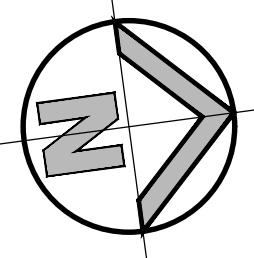
DRAWING SCHEDULE	
20971_CC_C000	COVER SHEET, DRAWING SCHEDULE, NOTES & LOCALITY SKETCH
20971_CC_C101	SITE DETAIL PLAN
20971_CC_C110	SITE SECTIONS, SHEET 1 OF 2
20971_CC_C111	SITE SECTIONS. SHEET 2 OF 2
20971_CC_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
20971_CC_C201	OSD PLAN, SECTION AND DETAILS
20971_CC_C300	RETAINING WALLS PLAN
20971_CC_C301	RETAINING WALLS DETAILS
20971_CC_C500	PAVEMENT PLAN
20971_CC_C501	PAVEMENT DETAILS
20971_CC_SE01	SEDIMENT AND EROSION CONTROL PLAN
20971_CC_SE02	SEDIMENT AND EROSION CONTROL DETAILS
20971_CC_BE01	BULK EARTHWORKS CUT & FILL PLAN
20971_CC_BE02	BULK EARTHWORKS SECTIONS, SHEET 1 OF 2
20971_CC_BE03	BULK EARTHWORKS SECTIONS, SHEET 2 OF 2

- 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.

1. THE EXISTING SURFACE IS TO BE STRIPPED OF ANY PAVEMENTS, TOPSOIL OR OBVIOUS UNSUITABLE MATERIAL.
2. EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
3. THE EXPOSED SUBGRADE AFTER STRIPPING AND/OR EXCAVATION TO BE PROOF ROLLED USING NOT FEWER THAN 5 PASSES OF A MINIMUM 8 TONNE DEAD WEIGHT STEEL SMOOTH-DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED AND REPLACED WITH LOW PLASTICITY FILL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (EG EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO BETWEEN 98% AND 102% OF STANDARD MAXIMUM DRY DENSITY (SMD) WITHIN 2% OF OPTIMUM MOISTURE CONTENT (OMC). IN PAVEMENT AREAS, THE UPPER 500mm SHOULD BE COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO.
5. IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
6. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING: FREE FORM ORGANIC AND PERISHABLE MATTER
MAXIMUM PARTICLE SIZE = 75mm
MAXIMUM PLASTICITY INDEX = 15%
7. IN THE NORTHERN PORTION OF THE SITE, UPPER CLAYS ARE WET OF OPTIMUM AND AS SUCH A BRIDGING LAYER FOR PAVEMENT AREAS WILL LIKELY BE NEEDED. THE BRIDGING LAYER WILL BE 300 - 500 THICK.
8. SUBGRADE DRAINAGE TO BE PROVIDED IN PAVEMENT AREAS ADJACENT TO LANDSCAPING AND SHOULD GENERALLY BE 500mm BELOW SUBGRADE LEVEL.

FOR TENDER ONLY

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LEGEND

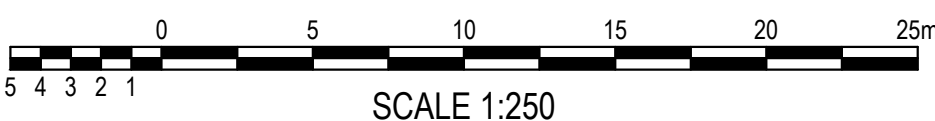
	PROPOSED BOUNDARY
	PROPOSED DOWNPIPE COLLECTION LINE
	PROPOSED STORMWATER PIPE
	PROPOSED SURFACE INLET PITS
	PROPOSED JUNCTION PITS
	OIF OVERLAND FLOW PATH
	PROPOSED KERB & GUTTER
	PROPOSED SWALE
	PROPOSED GRATED DRAIN
	PROPOSED SUBSOIL LINE
	PROPOSED DOWNPIPE LOCATION
	PROPOSED FLUSHING POINT
	PROPOSED INTERMEDIATE RISER
	PROPOSED RETAINING WALL
	PROPOSED RIDGE LINE
	PROPOSED VALLEY LINE
	PROPOSED PIT TAG
	STORMWATER UPSTREAM INVERT RL
	STORMWATER PIPE DIAMETER & CLASS
	STORMWATER PIPE LENGTH
	STORMWATER PIPE GRADE
	STORMWATER DOWNSTREAM INVERT RL
	PROPOSED CONTOURS
	PROPOSED SPOT LEVEL
	PROPOSED KERB & GUTTER
	TREE TO BE RETAINED
	LINE OF KERB TO BE DEMOLISHED
	EXISTING SEWER LINE

NOTE:

- CONTRACTOR TO ALLOW FOR SUBSOIL LINES BEHIND EVERY RETAINING WALL AND KERB EVEN IF NOT SHOWN IN PLAN.
- CONTRACTOR TO ALLOW FOR ALL STATUTORY LINEMARKING AND SIGNAGE FOR NEW ROADS AND CARPARKS.
- REFER TO HYDRAULIC DRAWINGS FOR ROOF CONNECTION TO RAINWATER TANK.
- ALL PITS ACCOMPANYING GRATED DRAINS ARE TO BE FITTED WITH OCEANGUARDS. GRATED DRAIN TO DRAIN INTO PIT ABOVE OCEANGUARD.

CHANGE REGISTER

NO	DESCRIPTION
①	FOOTPATH + GRADING REMOVED, RETAINING WALL HEIGHTS INCREASED
②	PIT ADDED
③	FOOTPATH + GRATED DRAIN + PIT ADDED
④	DOWNPIPE COLLECTION LINE ADDED
⑤	DOWNPIPE COLLECTION LINE ADDED
⑥	RAINWATER TANK + DRAINAGE ADDED
⑦	FOOTPATH ADDED
⑧	LINEMARKING AND KERB CHANGES REMOVED
⑨	TRAPPED LOW POINT REMOVED, DRAINAGE ADJUSTED, FOOTPATHS ADJUSTED



SURVEY INFORMATION
SURVEYED BY:
PHILLIP BROWN LAND SURVEYORS
DATUM: AHD
ORIGIN OF LEVELS: SSN 42008 RL 53 019

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR TENDER	JK	TR	27.07.2021					
03	ISSUED FOR CO-ORDINATION	JK	TR	21.05.2021					
02	ISSUED FOR TENDER ONLY	JK	TR	26.02.2021					
01	ISSUED FOR TENDER ONLY	JK	TR	12.02.2021					

Client
SCHOOL INFRASTRUCTURE NSW
Architect
GROUP GSA

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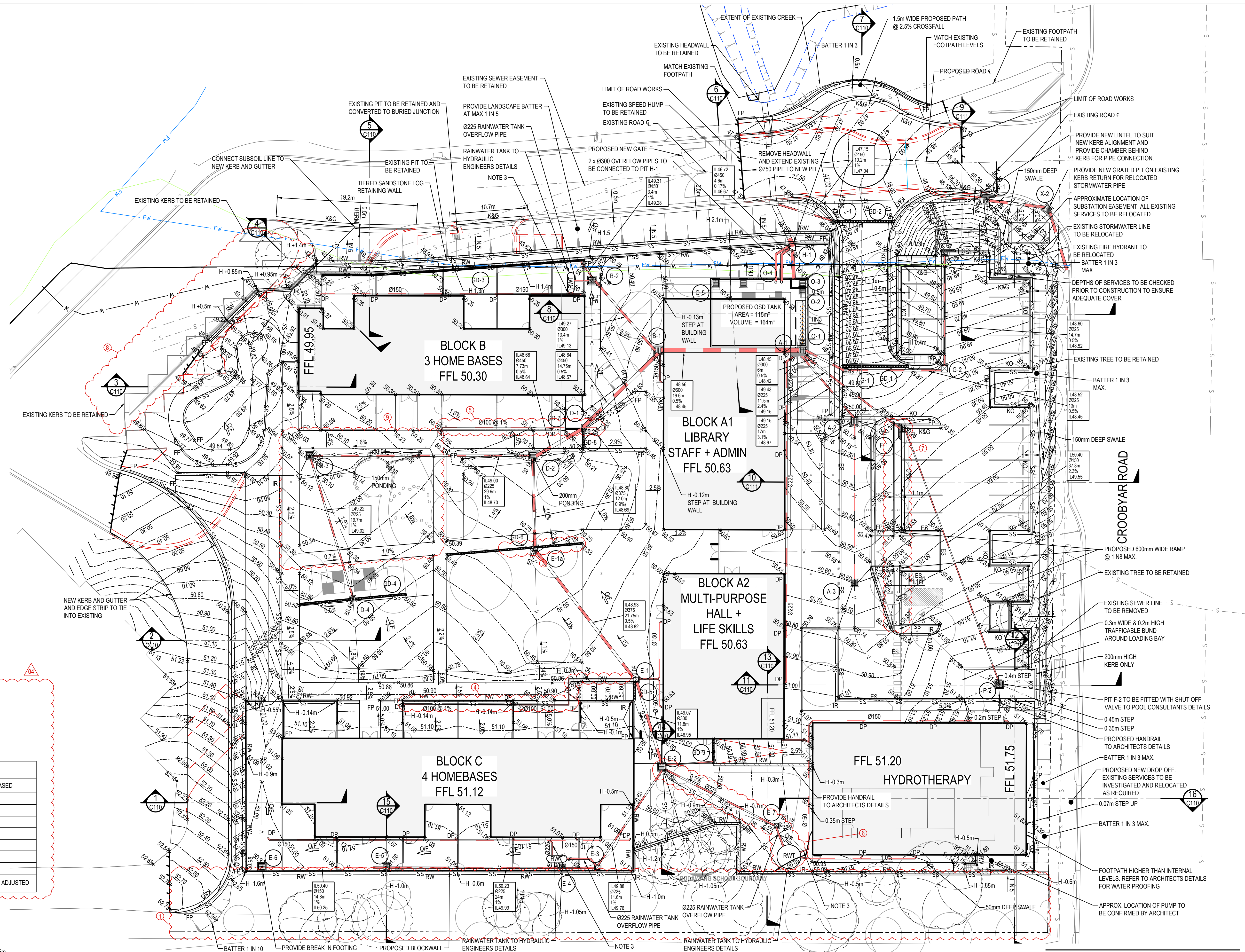
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Project
**BUDAWANG SCHOOL ALTERATIONS AND ADDITIONS
MILTON, NSW**
Title
SITE DETAIL PLAN

Drawn J. Knight	Designed T. Rozeznal	Date OCT 2020
Checked T. Rozeznal	Approved A. Francis	Scale (B1) 1:250
Drawing number 20971_CC_C101	Revision 04	



SITE DETAIL PLAN

SCALE 1:250

FOR TENDER ONLY



Drawn J.Knight	Designed T.Rozehnal	Date NOV 2020
Checked T.Rozehnal	Approved A.Francis	Scale 1:100
Drawing number 20971_CC_C110		Revision 04

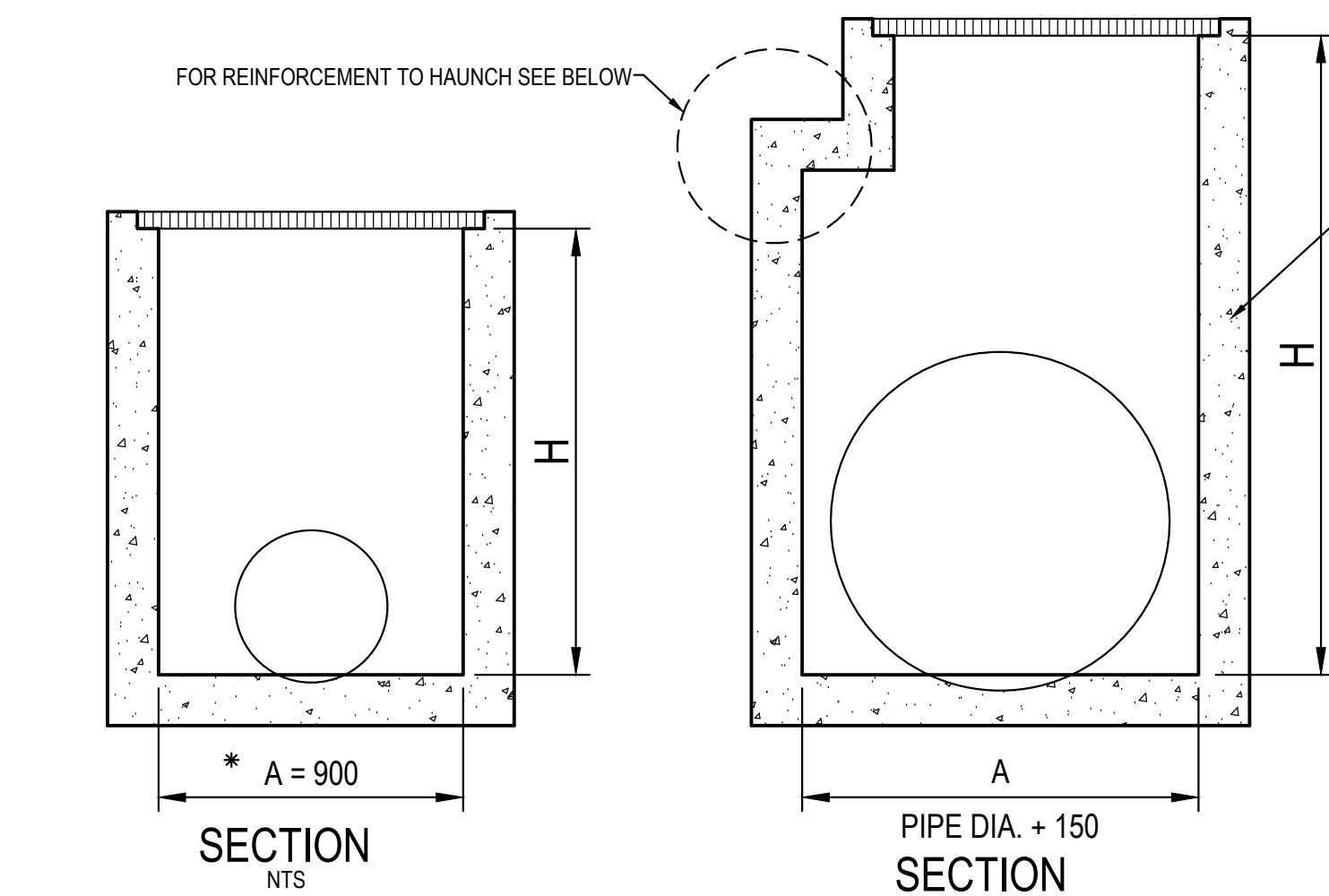
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TYPICAL PIT CHAMBER SIZES

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.
4. CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.



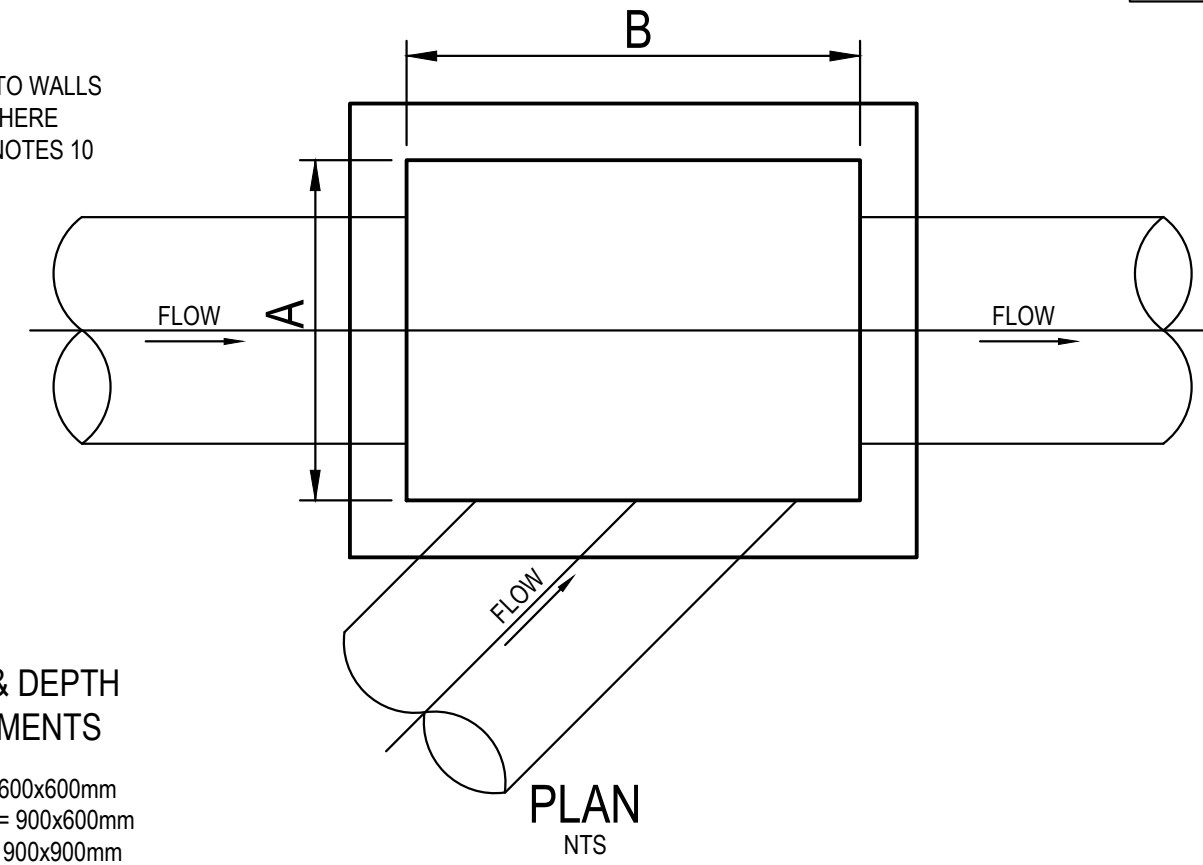
*A = 600 FOR PIPES UP TO 375 DIA.

1. PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

2. PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - Ax B = 600x600mm
H = 900-1200mm - Ax B = 900x600mm
H = >1200mm - Ax B = 900x900mm

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 = 1800mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



3. PIT CHAMBER FOR SIDE ENTRY ON SKEW

TABLE 1

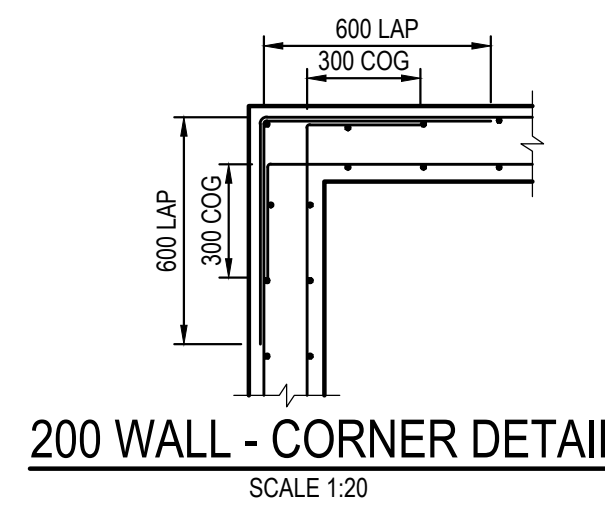
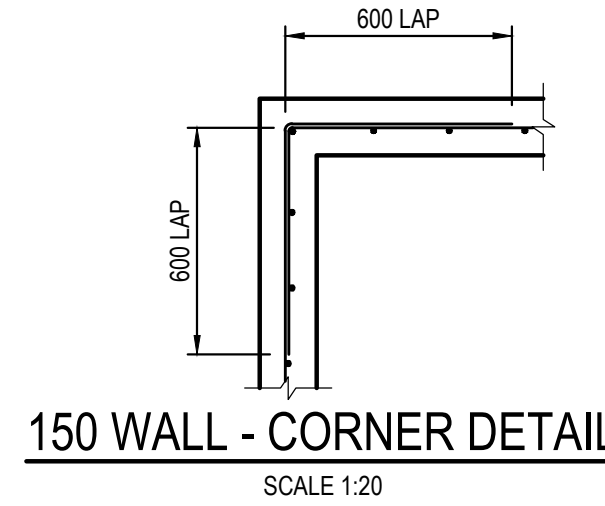
SIEVE SIZE (MM)	WEIGHT PASING (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2

SIEVE SIZE (MM)	WEIGHT PASING (%)
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



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 ANGLEREFER 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 BENCH 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 1.5m 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.

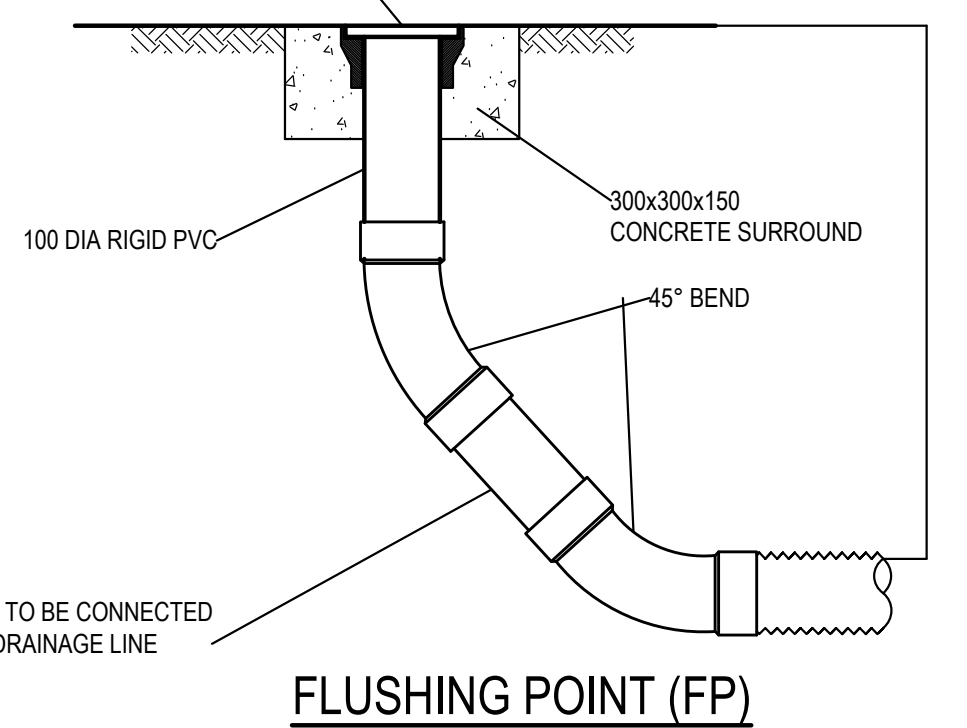
PIT LID SCHEDULE

PIT/STRUCTURE NUMBER	DESCRIPTION
G-3 F-1 X-1	KERB INLET PIT WITH 1.2m UNTEL HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
D-2 E-2 E-4 E-5 E-6	PROPOSED INLET PIT WITH 900x900 HINGED HEELSFAE LIGHT DUTY GRATED LID CLASS "B" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
O-1 O-2 O-3 O-4 O-5 A-1	PROPOSED INLET PIT WITH 900x900 HINGED HEELSFAE MEDIUM DUTY GRATED LID CLASS "C" WITHIN OSD TANK IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
B-2 D-4 H-1	PROPOSED INLET PIT WITH 900x900 HINGED MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
B-1	PROPOSED INLET PIT WITH 900x900 HINGED HEELSFAE MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
F-2 A-2 A-3 X-2	PROPOSED INLET PIT WITH 900x900 HINGED HEAVY DUTY GRATED LID CLASS "B" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
D-1 D-3	PROPOSED INLET PIT WITH 600x600 HINGED HEELSFAE LIGHT DUTY GRATED LID CLASS "B" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
G-1 I-1 E-1a J-1	PROPOSED INLET PIT WITH 600x600 HINGED HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
G-2	PROPOSED JUNCTION PIT WITH 900x900 SEALED HEAVY DUTY LID CLASS "D" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
E-1 E-3 E-7	PROPOSED JUNCTION PIT WITH 600x600 SEALED LIGHT DUTY LID CLASS "B" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
GD-1 GD-2	PROPOSED 225mm WIDE HEAVY DUTY GRATED DRAIN WITH HEAVY DUTY FRAME CLASS "D" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
GD-3 GD-5 GD-7 GD-8 GD-9	PROPOSED 150mm WIDE MEDIUM DUTY GRATED DRAIN WITH HEELSFAE GRATE CLASS "C" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.
GD-4 GD-6	PROPOSED 225mm WIDE MEDIUM DUTY GRATED DRAIN WITH HEELSFAE GRATE CLASS "C" IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENT.

NOTE:

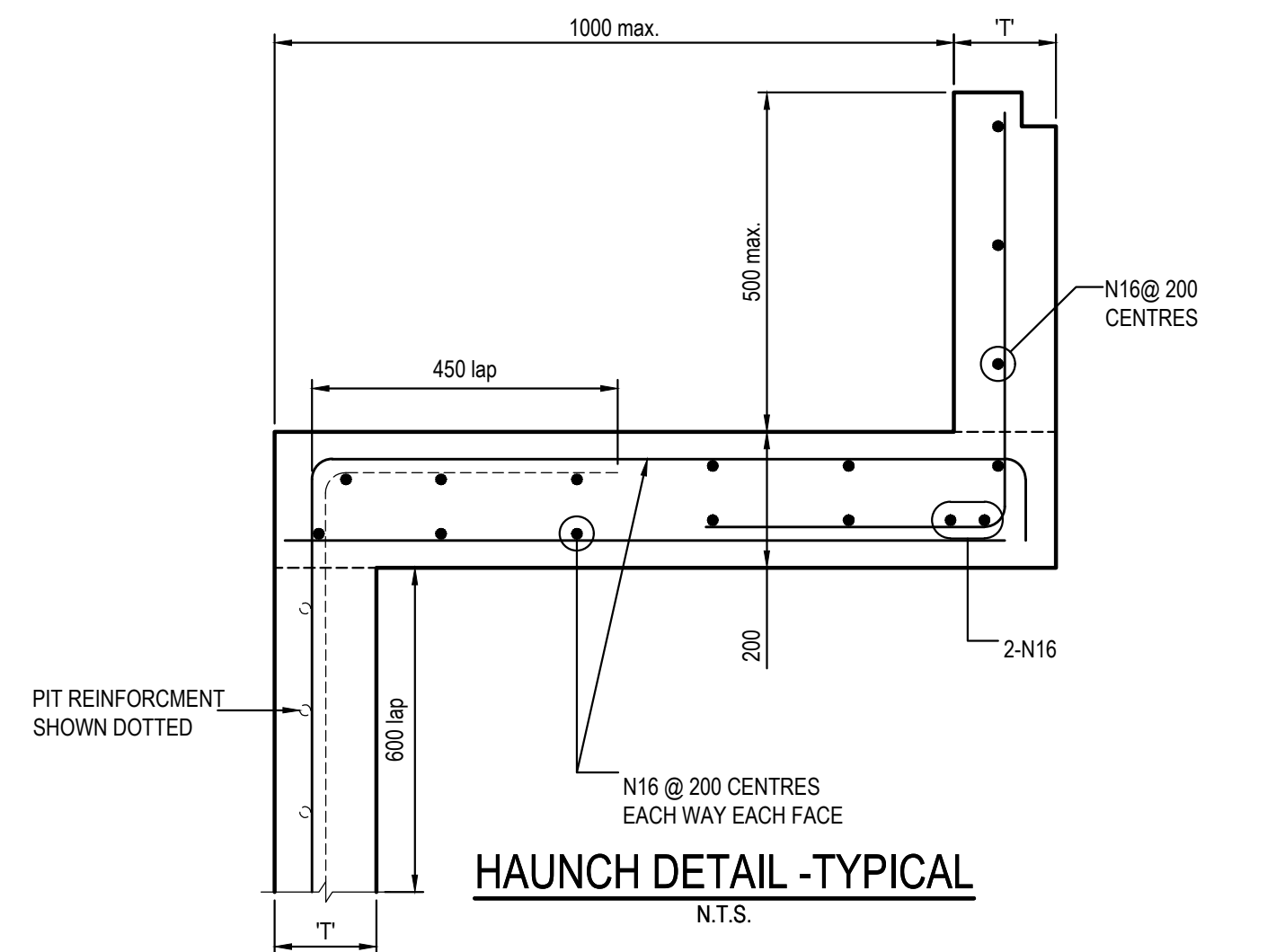
OCEANPROTECT OCEANGUARD TO BE INSTALLED IN PITS: E-2, E-4, E5, E6, D-2, D-3, D-4, B-2, I-1, E-1a, H-1, F-1, A-2, A-3, G-1, G-3, X-1, J-1

LIGHT DUTY IN LANDSCAPED AND PEDESTRIAN AREAS HEAVY DUTY IN VEHICULAR PAVEMENTS AIR TIGHT CAST IRON OR BRASS SCREW OR BOLT DOWN CAP.



FLUSHING POINT (FP)

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



FOR TENDER ONLY

SURVEY INFORMATION

SURVEYED BY:
PHILLIP BROWN LAND SURVEYORS
DATUM: AHD
ORIGIN OF LEVELS: SSM 42008 RL 53 019

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR TENDER	JK	TR	27.07.2021					
02	ISSUED FOR CO-ORDINATION	JK	TR	21.05.2021					
01	ISSUED FOR TENDER ONLY	JK	TR	12.02.2021					

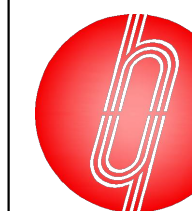
Client
SCHOOL INFRASTRUCTURE NSW
Architect
GROUP GSA

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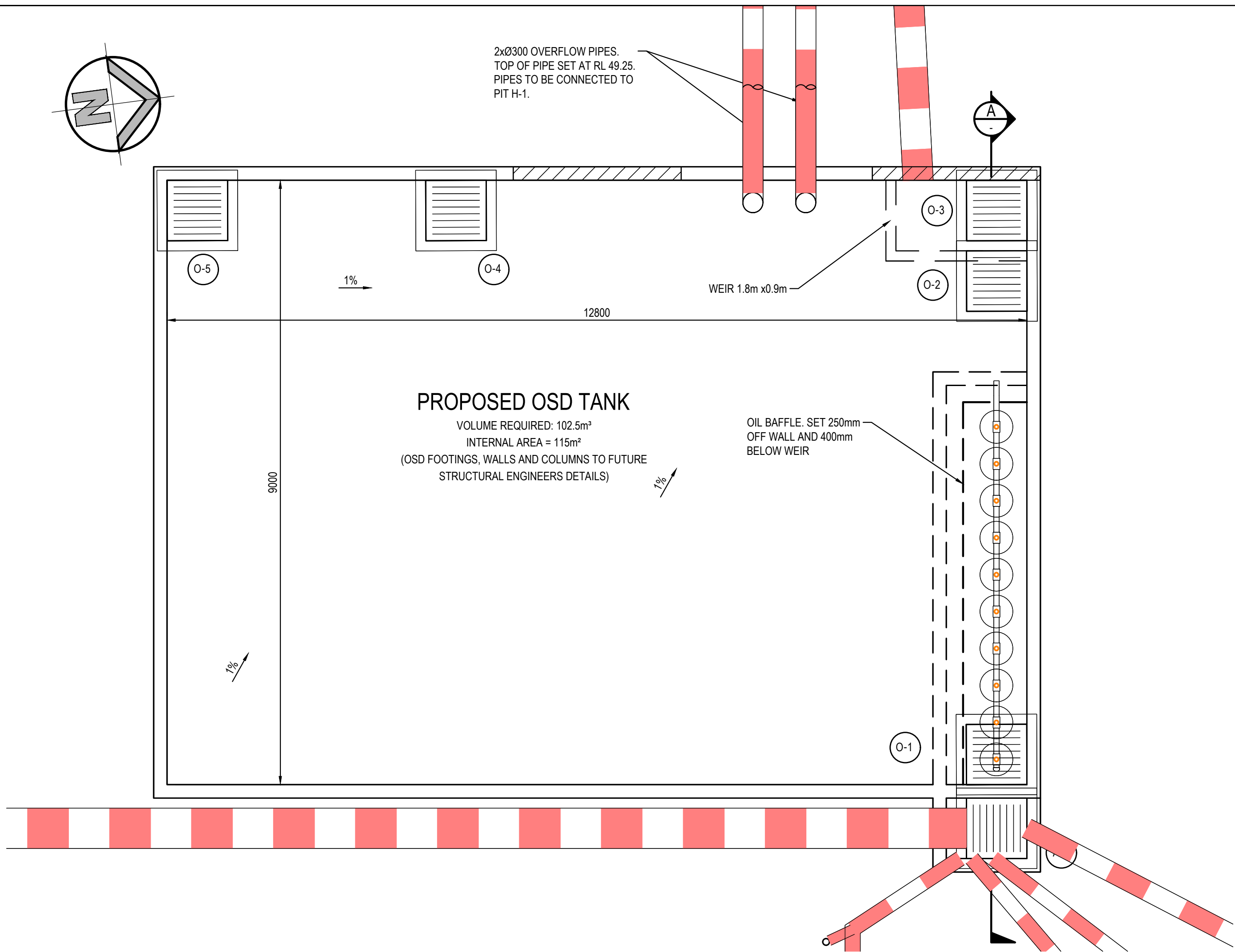


Project
BUDAWANG SCHOOL FOR SPECIFIC PURPOSES ALTERATIONS AND ADDITIONS, MILTON, NSW

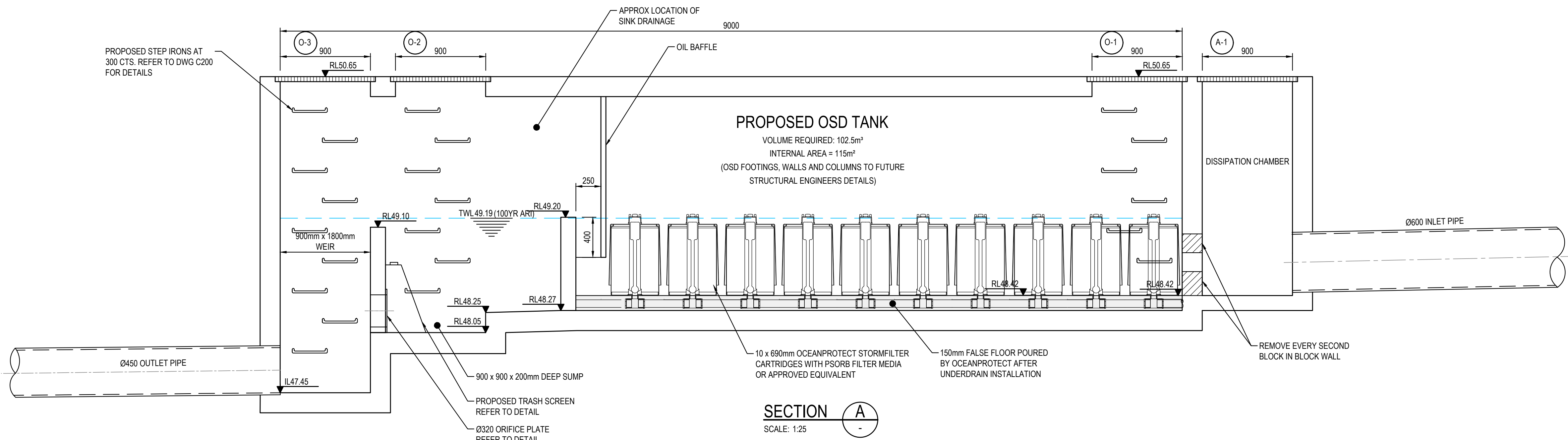
Title
STORMWATER MISCELLANEOUS DETAILS

Drawn
J.Knight
Designed
T.Rozezhnal
Approved
A.Francis
Date
NOV 2020
Scale (B/A)
AS NOTED

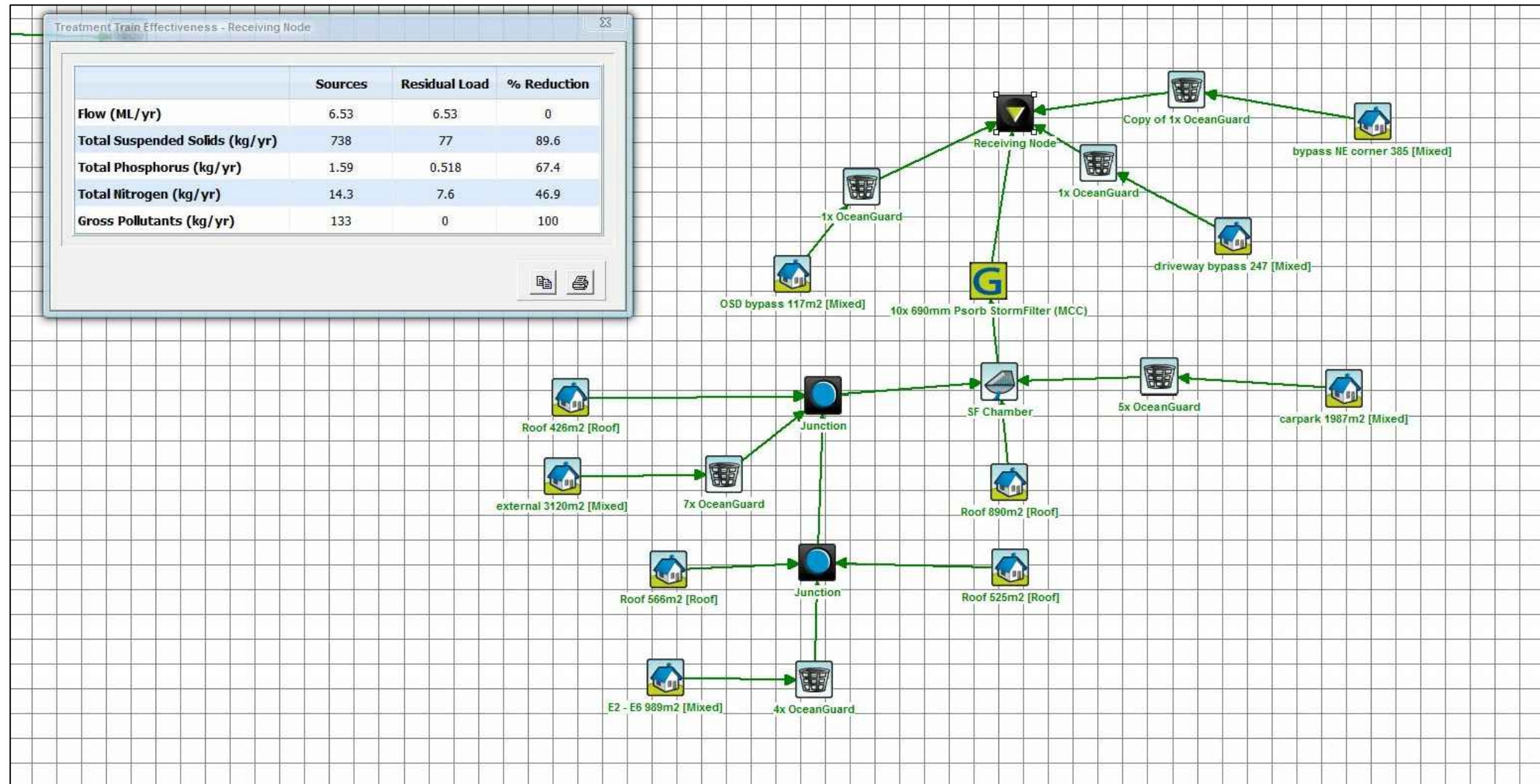
Drawing number
20971_CC_C200
Revision
03



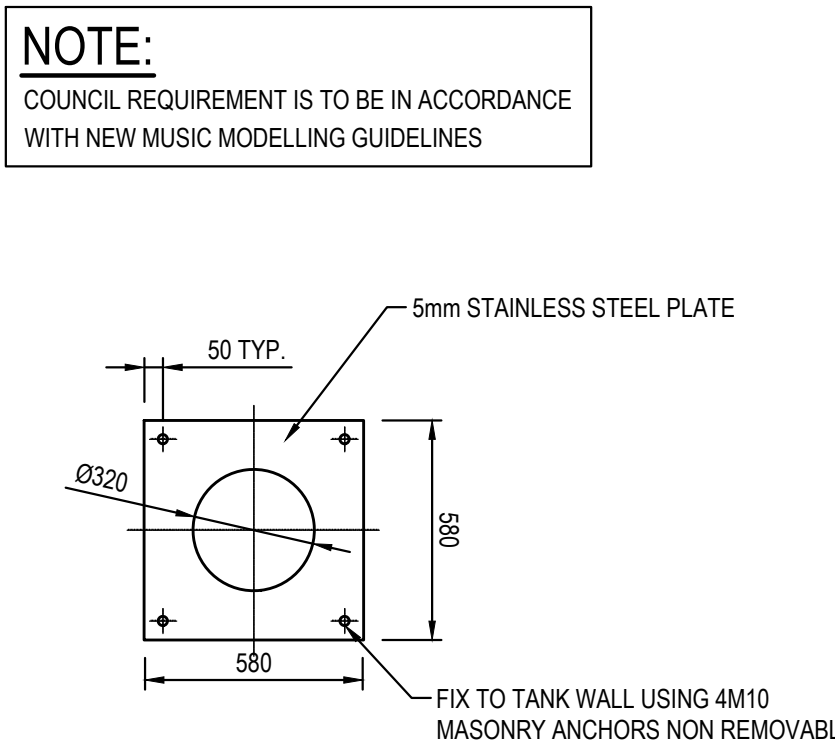
OSD TANK PLAN
SCALE 1:50



SECTION A
SCALE: 1:25



STORMWATER QUALITY RESULTS
SCALE: NTS

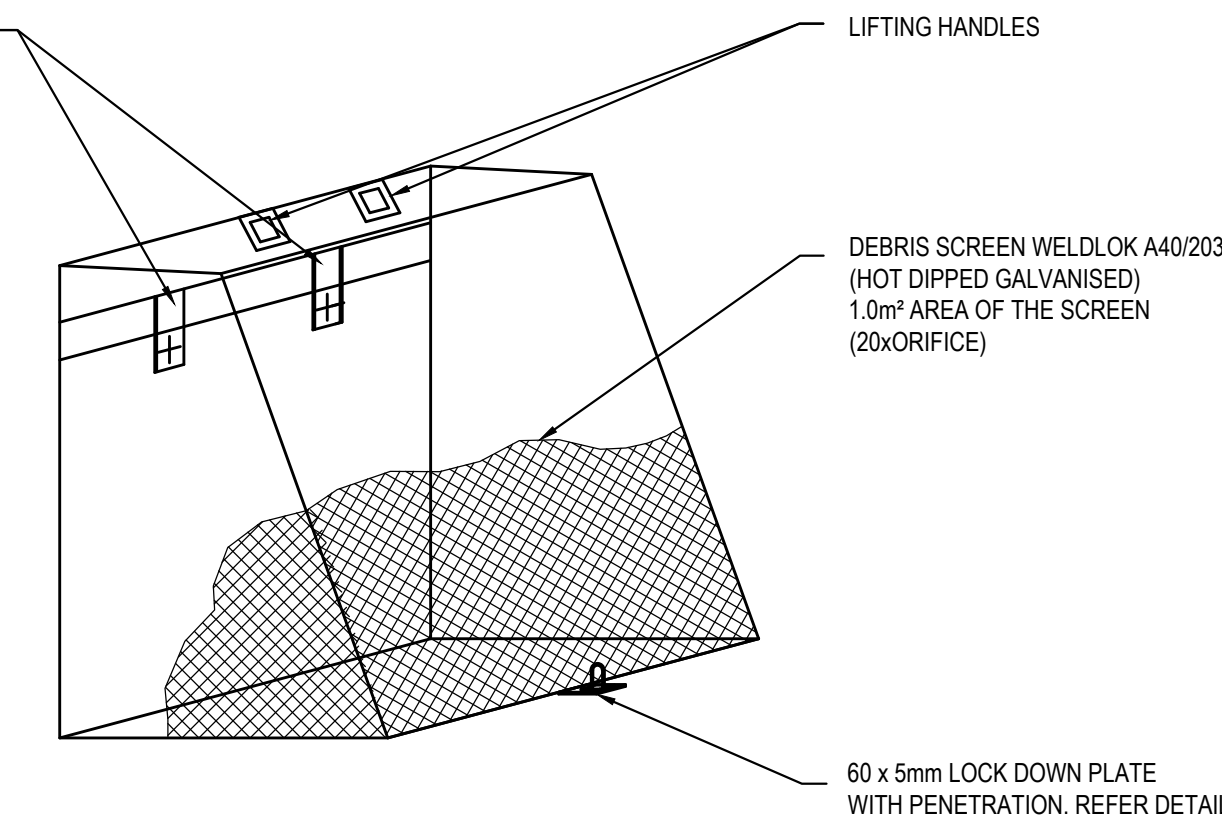


ORIFICE PLATE DETAIL
SCALE 1:20

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 RECOMMENDED 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 50x THE 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

ARI	PRE (L/s)	POST (L/s)
5	173	170
20	278	235
100	441	427

FOR TENDER ONLY

SURVEY INFORMATION
SURVEYED BY:
PHILLIP BROWN LAND SURVEYORS
DATUM: AHD
ORIGIN OF LEVELS: SSM 42008 RL 53.019

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR TENDER	JK	TR	27.07.2021					
03	ISSUED FOR CO-ORDINATION	JK	TR	21.05.2021					
02	RE-ISSUED FOR TENDER	MS	TR	15.02.2021					
01	ISSUED FOR TENDER	MS	TR	12.02.2021					

Client
SCHOOL INFRASTRUCTURE NSW

Architect
GROUP GSA

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Project
**BUDAWANG SCHOOL FOR SPECIFIC PURPOSES
ALTERATIONS AND ADDITIONS, MILTON, NSW**

Title
OSD PLAN, SECTION AND DETAILS

Drawn
J.Knight

Designed
T.Chan

Date
NOV 2020

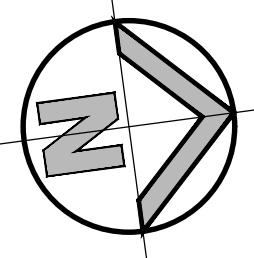
Checked
T.Rozehnal

Approved
A.Francis

Scale (B/A)
AS NOTED

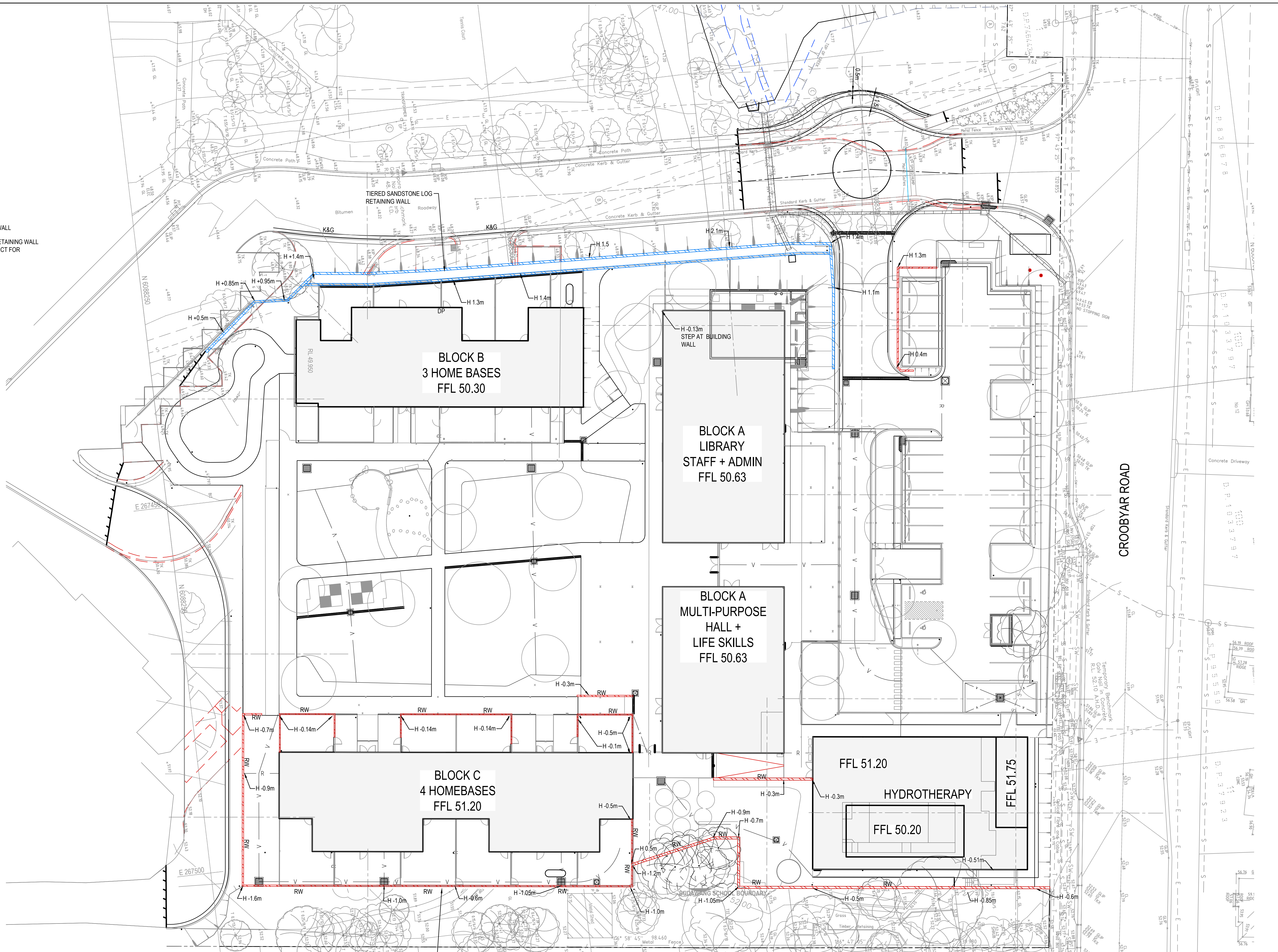
Drawing number
20971_CC_C201

Revision
04



LEGEND

- PROPOSED BOUNDARY
- PROPOSED BLOCK RETAINING WALL
- PROPOSED SANDSTONE LOG RETAINING WALL
REFER TO LANDSCAPE ARCHITECT FOR DETAILS



0 5 10 15 20 25m
SCALE 1:250

RETAINING WALL PLAN
SCALE 1:250

FOR TENDER ONLY

SURVEY INFORMATION
SURVEYED BY:
PHILLIP BROWN LAND SURVEYORS
DATUM: AHD
ORIGIN OF LEVELS: SSM 42008 RL 53.019

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR TENDER	JK	TR	27.07.2021					
03	ISSUED FOR CO-ORDINATION	JK	TR	21.05.2021					
02	ISSUED FOR TENDER	JK	TR	26.02.2021					
01	ISSUED FOR TENDER ONLY	JK	TR	12.02.2021					

Client
SCHOOL INFRASTRUCTURE NSW
Architect
GROUP GSA

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Project
**BUDAWANG SCHOOL ALTERATIONS AND ADDITIONS
MILTON, NSW**
Title
RETAINING WALL PLAN

Drawn J.Knight	Designed T.Rozezhnal	Date OCT 2020
Checked T.Rozezhnal	Approved A.Francis	Scale @A1 1:250
Drawing number 20971_CC_C300	Revision 04	



NOTES:

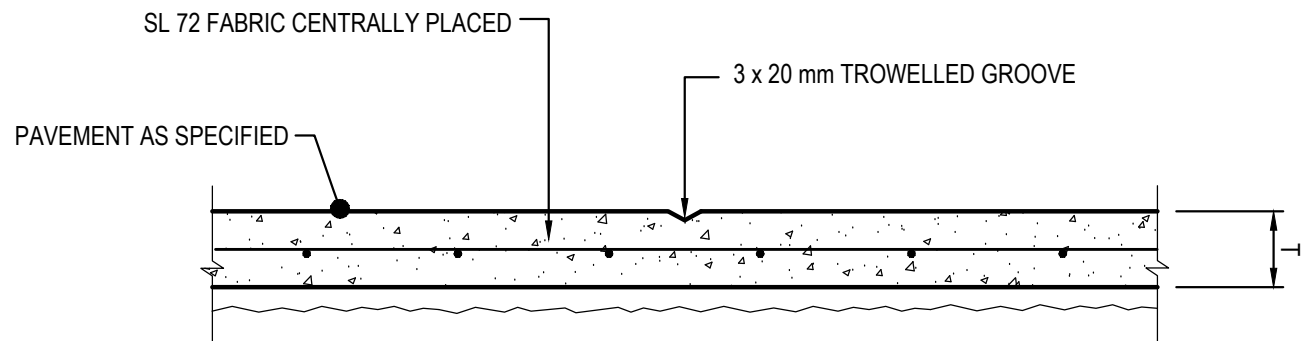
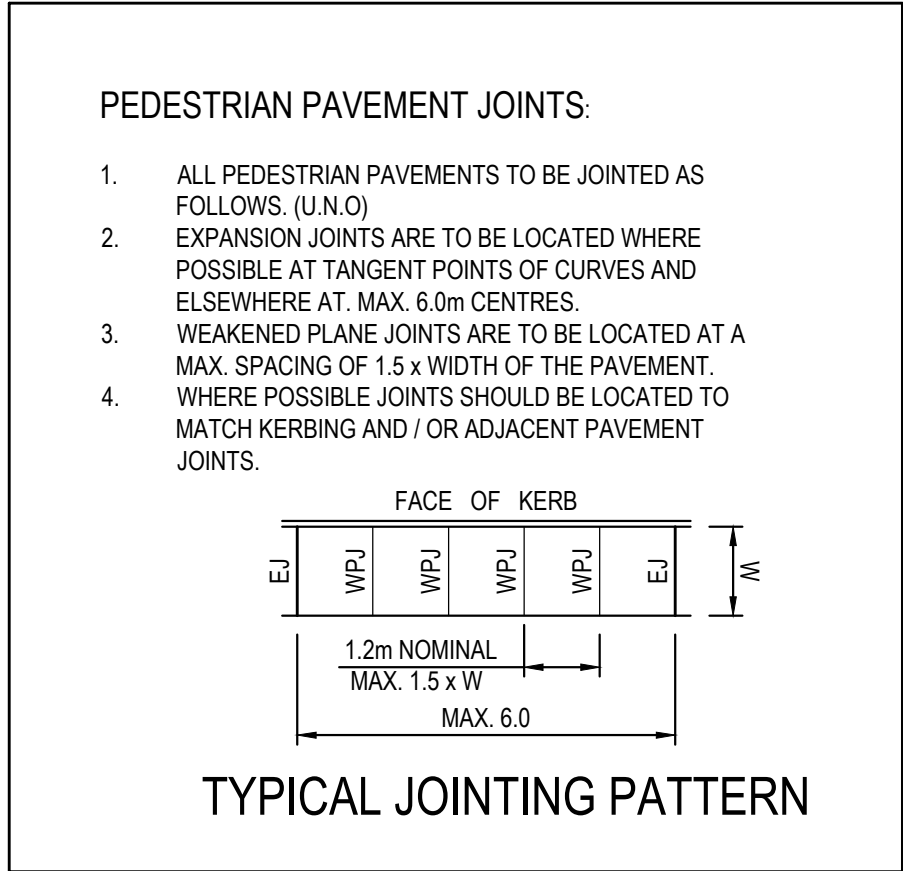
1. MINIMUM ALL ALLOWABLE BEARING CAPACITY OF SOIL TO BE 100 kPa.
2. ENSURE REAR FACE OF RETAINING WALL IS FULLY WATERPROOFED. USE EMER-PROOF ECOFLEX OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. (2 COATS min. APPLIED IN OPPOSITE DIRECTIONS AND ALLOWED TO CURE FOR 7 DAYS TO BE CONFIRMED BY THE ARCHITECT).
3. INSTALL FULL HEIGHT DRAINAGE CELL TO REAR OF WALL. USE NYLON CORDRAIN/18 OR APPROVED EQUIVALENT.
4. PROVIDE GEOFABRIC MATERIAL AS SEPARATION BETWEEN GRANULAR BACKFILL (GRAVEL) AND NATURAL BACKFILL MATERIAL. USE BIOMIM A24 OR APPROVED EQUIVALENT.

SCALE 1:20

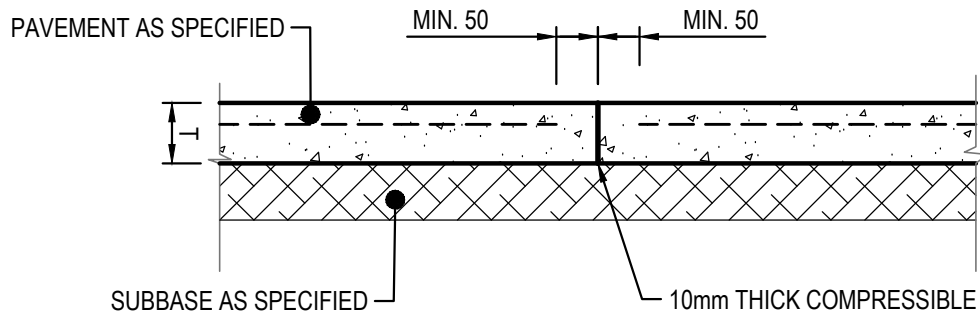


FOR TENDER ONLY

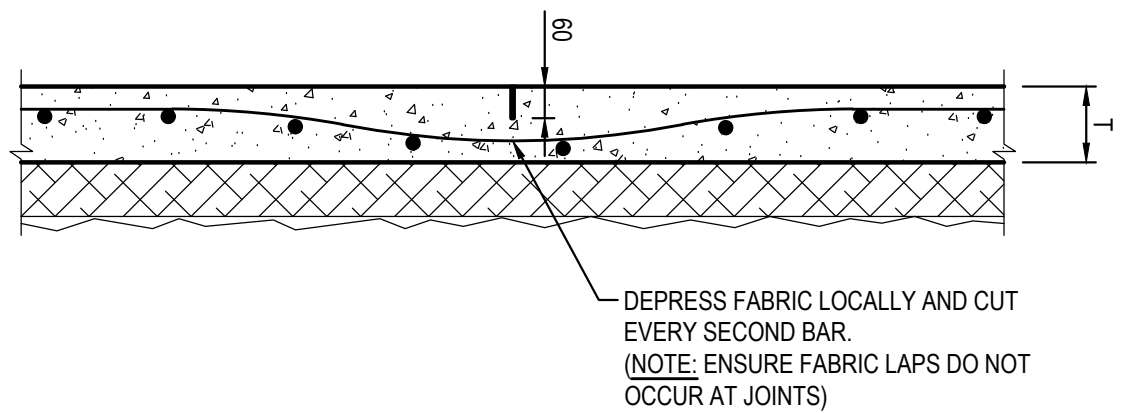
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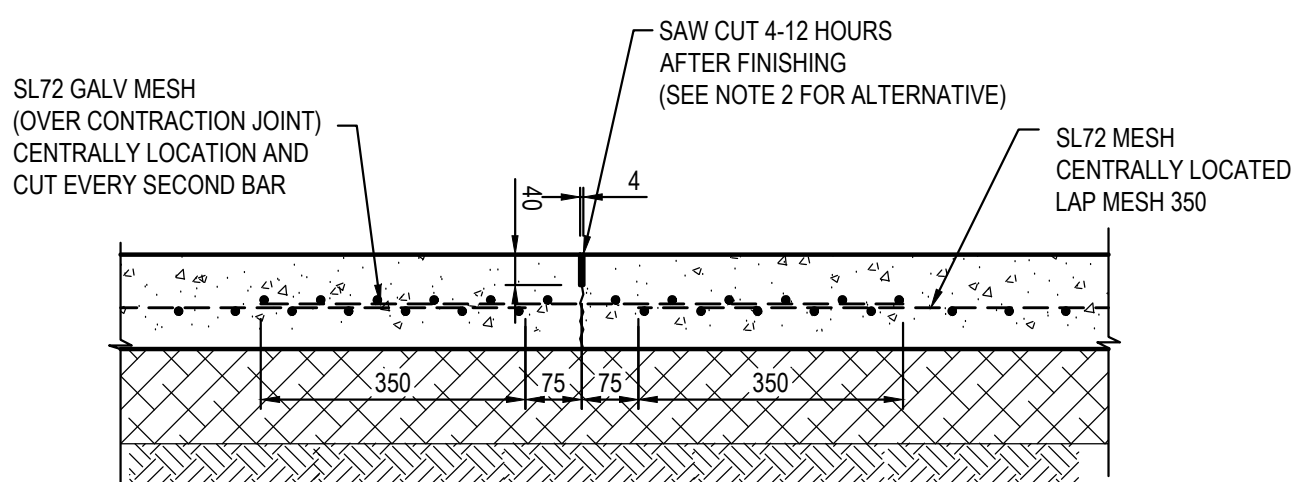
FOOTPATH WEAKENED PLANE JOINT (WPJ)
SCALE 1:10



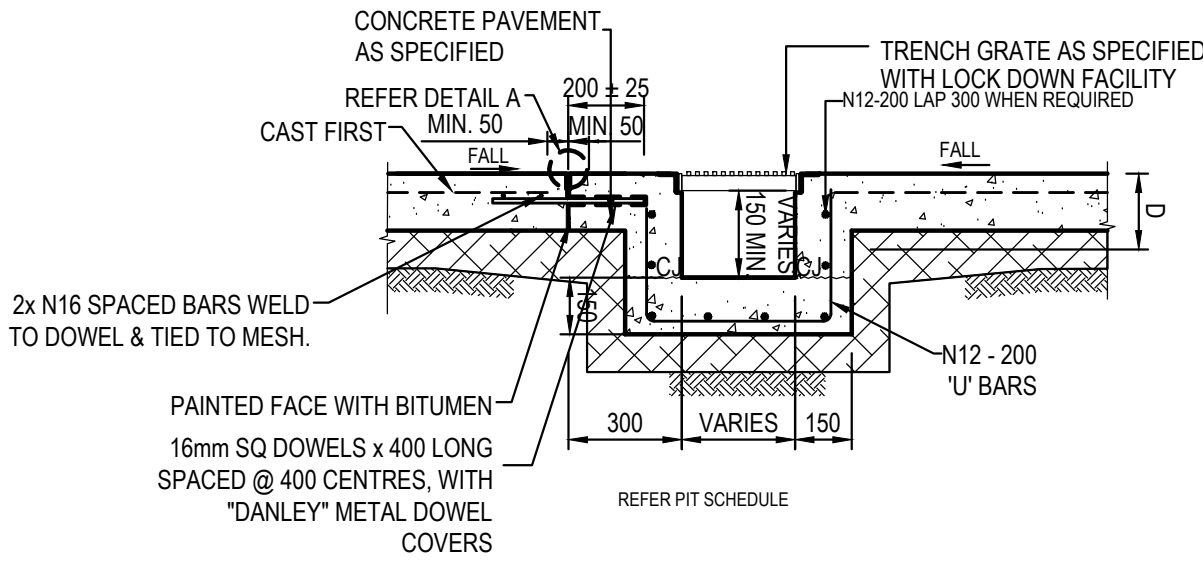
FOOTPATH EXPANSION JOINT (EJ)
SCALE 1:10



SAW CUT JOINT (SC)
SCALE 1:10

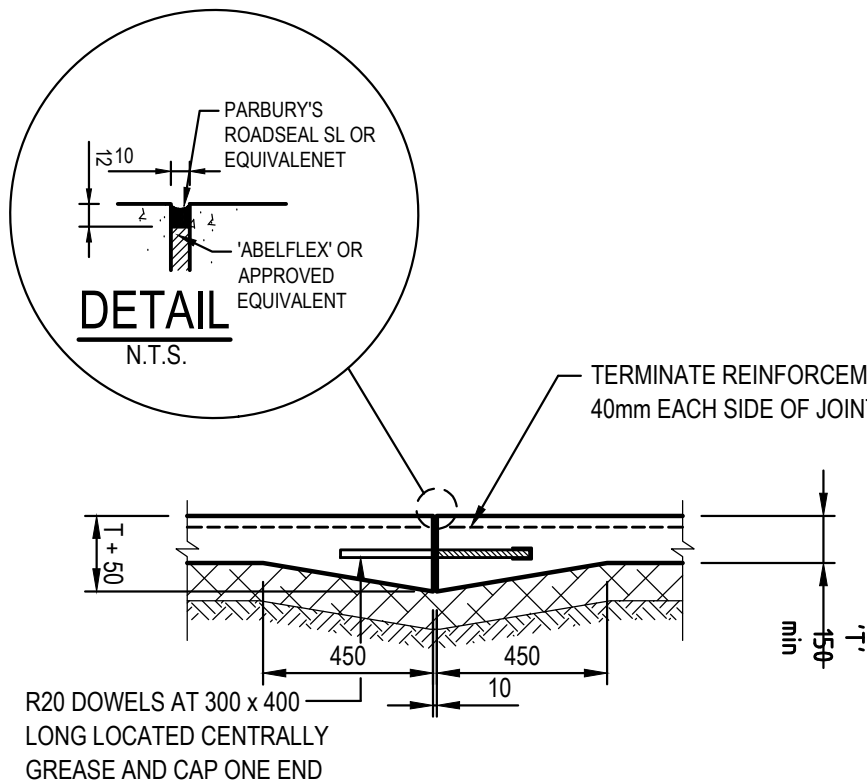


CONTRACTION JOINT (CJ)
SCALE 1:10



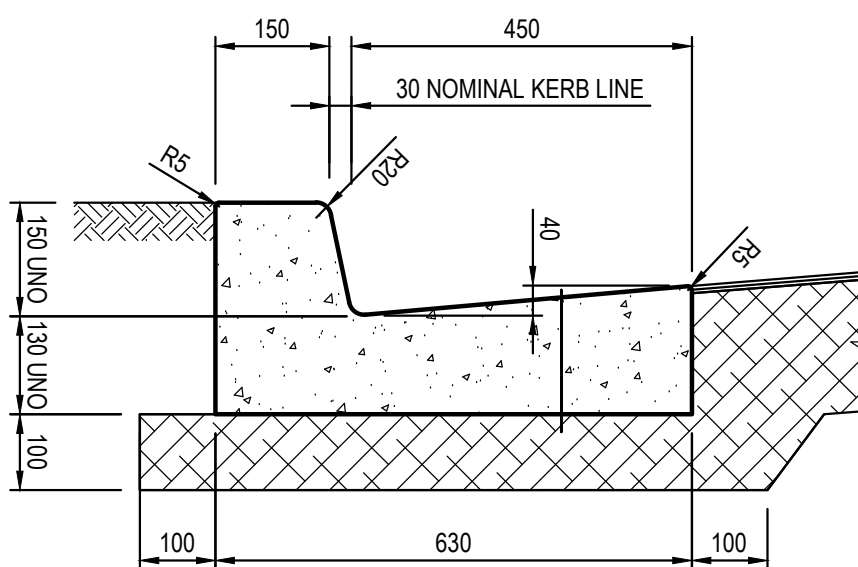
GRATED DRAIN IN CONCRETE
SCALE 1:20

ALTERNATE GRATED DRAIN TYPE - 'ACO' S300K VARIABLE DEPTH HEAVY DUTY DRAIN SYSTEM. NO REINFORCEMENT REQUIRED AROUND PREFAB DRAIN. REFER TO MANUFACTURERS SPECIFICATIONS.

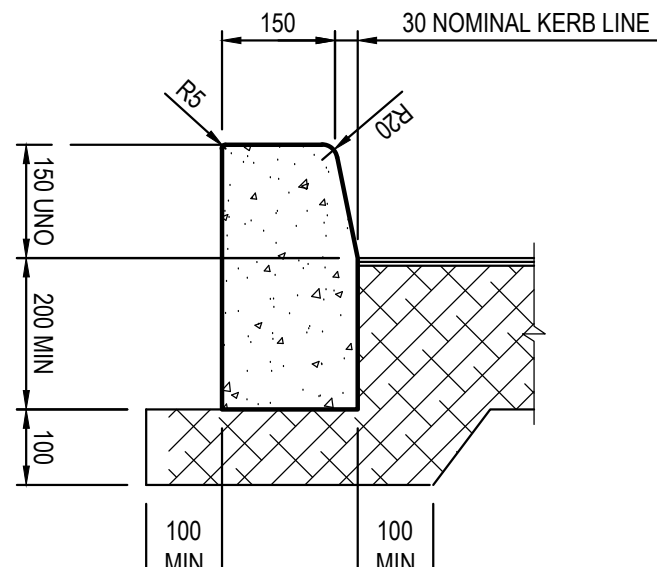


DOWELED EXPANSION JOINT
NOTED DEJ ON PLAN
SCALE 1:20

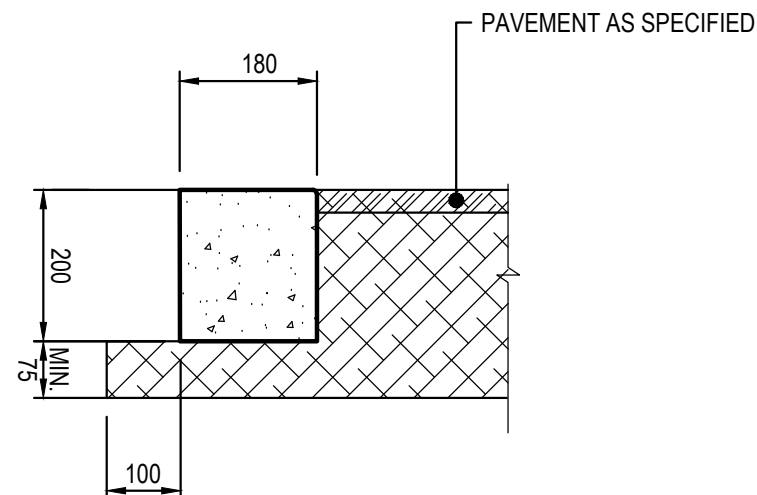
NOTE:
1. ALL JOINTS TO BE SILICON SEALED. REFER TO DETAILS.
2. EXTERNAL SLAB TO HAVE GALVANISED DOWELS



KERB & GUTTER (K&G)
SCALE 1:10



KERB ONLY (KO)
SCALE 1:10



CONCRETE EDGE STRIP (ES)
SCALE 1:10

ASPHALTIC CONCRETE SURFACING NOTES:

- ASPHALT (HOT MIXED) TO AS2150.
- BITUMEN EMULSION: TO AS1160.
- BASECOURSE SURFACE TO BE FIRM, FREE OF SURFACE WATER, OILS, GREASE, RETARDERS, LOOSE MATERIAL AND DUST. APPLY TACK COAT IMMEDIATELY BEFORE PLACING ASPHALT.
- TACK COAT: BITUMINOUS EMULSION SPRAY TO THE RECOMMENDATION OF AS2150.
- ASPHALT: MIXING LAYING AND COMPACTION TO THE RECOMMENDATION OF AS2150. TACK COAT: BITUMINOUS EMULSION SPRAY TO THE RECOMMENDATION OF AS2150.
- MIXES:
 - AC10 - 10mm NOMINAL MAXIMUM AGGREGATE SIZE
 - AC7 - 7mm NOMINAL MAXIMUM AGGREGATE SIZE
 - AC5 - 5mm NOMINAL MAXIMUM AGGREGATE SIZE
- BITUMEN BINDER CLASS: 170.
- SURFACE FINISH: DENSE, SMOOTH, FREE OF ROLLER MARKS AND LOOSE MATERIAL. COMPACTION: WHILST THE MIX TEMPERATURE IS ABOVE 140°C. SITE DENSITY (MINIMUM): 95% OF THE 50 BELOW MARSHALL DENSITY OF THE LABORATORY COMPACTED MIX.
- JOINTS:**
 - THE NUMBER OF JOINTS, BOTH LONGITUDINAL AND TRANSVERSE, SHALL BE KEPT TO MINIMUM.
 - THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THOSE OF THE REMAINDER OF THE LAYER.
 - FORM JOINTS AND STAGGER 300mm MINIMUM IN SUCCESSIVE LAYERS.
- FINISHED PAVEMENT PROPERTIES:**
FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE TO SHAPE AND SHALL NOT VARY MORE THAN 10mm FROM SPECIFIED PLAN LEVEL AT ANY POINT AND SHALL NOT DEVIATE FROM THE BOTTOM OF A 3M STRAIGHT EDGE LAID IN ANY DIRECTION BY MORE THAN 5mm.

RIGID CONCRETE PAVEMENT NOTES

GENERAL:

- CARRY OUT ALL CONCRETE WORK IN ACCORDANCE WITH AS3600-2018 AND THE SPECIFICATION. KEEP A COPY OF THESE DOCUMENTS ON SITE.
- VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT AND OR THE SURVEYOR.
- DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS.
- IN CASE OF DOUBT - ASK.

CONCRETE:

- PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH F_c AS DEFINED IN AS3600-2018 OR RTA FORM 609. ADD WATER REDUCING ADMIXTURE EQUAL TO WRDA.

	AS3600 F _c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
ALL KERBS, PITS ETC.	25	80	20
VEHICULAR PAVING	REFER TO CONCRETE PAVEMENT NOTES BELOW		

- USE TYPE GP CEMENT IN ACCORDANCE WITH AS3972.
- ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS3600-2018.
- CONSOLIDATE BY VIBRATION. CURE SURFACES BY COVERING WITH PLASTIC AND KEEPING SURFACE MOIST FOR MIN 7 DAYS.

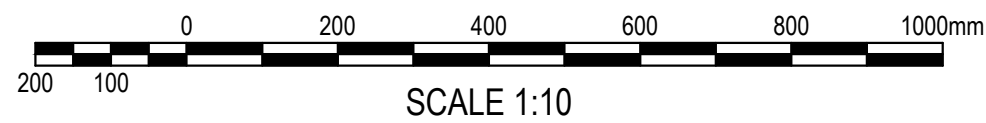
REINFORCEMENT:

- FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW.
 - N. HOT ROLLED DEFORMED BAR, GRADE 500
 - R. PLAIN ROUND BAR, GRADE 250
 - SL OR RL HARD DRAWN WIRE FABRIC SQUARE OR RECTANGULAR
- PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS NOTED OTHERWISE.
 - FOOTINGS: 75 BOTTOM, 65 TOP AND SIDES 40
 - SLABS: 40 WHEN EXPOSED TO WEATHER.
 - DRAINAGE STRUCTURES: 30 WHEN CAST IN FORMS BUT LATER EXPOSED TO WEATHER OR GROUND, 65 WHEN CAST DIRECTLY IN CONTACT WITH GROUND.
- FOR ALL PITS LOCATED IN CONCRETE PROVIDE 2N16 TRIMMER BARS AROUND 1200mm LONG AROUND ALL CORNERS OF PITS UNLESS SHOWN OTHERWISE.

CONCRETE VEHICULAR PAVEMENT NOTES:

- CONCRETE MIX PARAMETERS:
 - MAXIMUM AGGREGATE SIZE 20mm
 - FLEXURAL STRENGTH AT 28 DAYS = 3.5 MPa (F_c=32MPa)
 - FLEXURAL STRENGTH AT 90 DAYS = 3.85 MPa
 - MAXIMUM WATER / CEMENT RATIO = 0.45
 - MAXIMUM SHRINKAGE LIMIT = 600 MICROSTRAINS (AS1012.13) AFTER 8 WEEKS OF DRYING
 - MINIMUM CEMENT CONTENT = 300kg/m³
 - CEMENT TO BE TYPE GP (NORMAL CEMENT) TO AS 3972
 - SLUMP = 50mm
- SAWN JOINTS ARE TO BE CUT BETWEEN 2-4 HOURS AFTER CONCRETE POUR USING SOFF CUT SAW TO AVOID DAMAGING THE SURFACE DURING SAWCUT.
- FOR EXPANSION JOINTS, PRIOR TO THE PLACEMENT OF CONCRETE IN THE ADJACENT SLAB, SELF EXPANDING CORK FILLER SHALL BE ADHERED TO THE ALREADY CAST AND CLEANED CONCRETE FACE USING AN APPROVED WATERPROOF ADHESIVE. ADHESIVE SHALL BE LIBERALLY APPLIED TO THE FULL FACE OF THE CONCRETE SLAB TO BE COVERED BY THE FILLER. AND ON THE FULL FACE OF THE FILLER TO BE ADHERED. THE BUILDER SHALL PROVIDE CONSTANT SUPERVISION OF CONCRETE POURS EXECUTED BY SUB-CONTRACTORS TO ENSURE:
 - REINFORCEMENT DISPLACED OFF CHAIRS ARE REPLACED PRIOR TO CONCRETE PLACEMENT.
 - NO SITE WATER IS ADDED TO CONCRETE OR CONCRETE IN WAITING TRUCKS. (REQUIRED SLUMP FOR PLACEMENT SHALL BE ACHIEVED USING SUPER PLASTICISER).
 - ALL CONCRETE IS FULLY COMPACTED USING A POKER VIBRATOR.
 - NO POURS ARE EXECUTED WHEN THE AMBIENT TEMPERATURE EQUALS OR EXCEEDS 35°C
 - POURS ARE PROTECTED FROM ANY HOT DRYING WINDS.
- REFER TO COMPACTION NOTES FOR PREPARATION OF SUB-BASE AND SUB-GRADE.
- CURING: THE FINISHED CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS USING AT LEAST ONE OF THE FOLLOWING METHODS:
 - PONDING OR CONTINUOUS SPRINKLING WITH WATER.
 - THE USE OF AN ABSORBENT COVER KEPT CONSTANTLY WET. (WHEN THE AMBIENT TEMPERATURE EXCEEDS 32°C CURING MAY ONLY BE ACHIEVED USING THE ABOVE 2 METHODS.
 - THE USE OF AN IMPERMEABLE SHEET MEMBRANE OVER A MOISTENED SURFACE. (THE MEMBRANE SHALL BE FIXED AND LAPPED SO THAT NO AIR CIRCULATION CAN OCCUR AT THE CONCRETE SURFACE).
 - THE USE OF A CURING COMPOUND COMPLYING WITH AS3799, APPLIED UNIFORMLY IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, AND WHEN DRY THE COAT SHOULD BE CONTINUOUS, FLEXIBLE AND WITHOUT VISIBLE BREAKS OR PIN HOLES FOR SEVEN DAYS.
- BROOM CONCRETE FINISH UNLESS SPECIFIED OTHERWISE TO ARCHITECTS REQUIREMENTS.

FOR TENDER ONLY



SURVEY INFORMATION
SURVEYED BY:
PHILLIP BROWN LAND SURVEYORS
DATUM: AHD
ORIGIN OF LEVELS: SSM 42008 RL 53 019

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR TENDER	JK	TR	27.07.2021					
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01	ISSUED FOR TENDER	MS	TR	12.02.2021					

Client
SCHOOL INFRASTRUCTURE NSW
Architect
GROUP GSA

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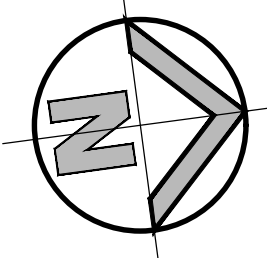


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Project
**BUDAWANG SCHOOL ALTERATIONS AND ADDITIONS
MILTON, NSW**
Title
PAVEMENT DETAILS AND NOTES

Drawn J.Knight	Designed T.Rozehnal	Date OCT 2020
Checked T.Rozehnal	Approved A.Francis	Scale (BA) 1:250
Drawing number 20971_CC_C501		Revision 03

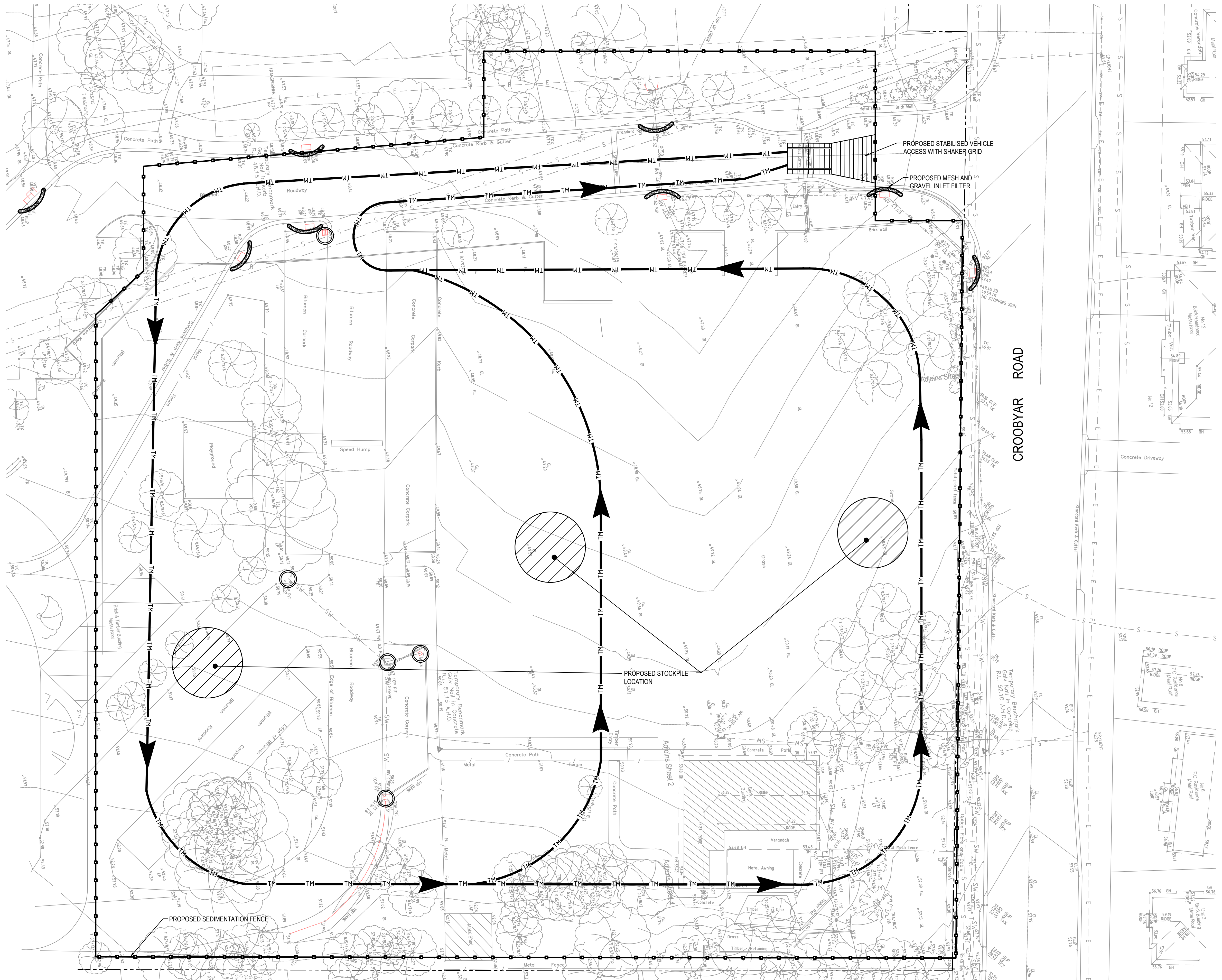


LEGEND

- SITE BOUNDARY
- PROPOSED SEDIMENTATION FENCE
- TRAFFIC MANOEUVRING
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- GEOTEXTILE INLET FILTER
- PROPOSED MESH & GRAVEL INLET FILTER
- PROPOSED STOCKPILE LOCATION

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH SHOALHAVEN CITY 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 RESPONSIBILITY 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 & 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.



SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1:250



FOR TENDER ONLY

SURVEY INFORMATION				Client				Project			
SURVEYED BY: PHILLIP BROWN LAND SURVEYORS DATUM: AHD ORIGIN OF LEVELS: SSM 42008 RL 53.019				SCHOOL INFRASTRUCTURE NSW GROUP GSA				BUDAWANG SCHOOL ALTERATIONS AND ADDITIONS MILTON, NSW			
03 ISSUED FOR TENDER				Architect				Title			
02 ISSUED FOR CO-ORDINATION				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Drawing number			
01 ISSUED FOR TENDER				DRAWN				20971_CC_SE01			
AMENDMENT				DESIGNED				93			
REVISION				DATE				NOV 2020			
JK				27.07.2021				Scale @A1			
JK				21.05.2021				1:250			
MS				12.02.2021							
TR											



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- A cross-sectional diagram of a sediment fence system. On the left, an 'EARTH BANK' is shown with a downward arrow indicating 'FLOW'. The bank slopes down to a 'STABILISE STOCKPILE SURFACE' which is labeled with a '2:1 SLOPE (MAX.)'. A 'SEDIMENT FENCE' is depicted as a vertical line on the right side of the stockpile, which also has a '2:1 SLOPE (MAX.)' on its right side. The stockpile area is shaded with diagonal lines.

- STOCKPILES**
SCALE N.T.S.



- # GEOTEXTILE INLET FILTER
- SCALE N.T.S.



- MESH & GRAVEL INLET FILTER**
SCALE N.T.S.



- ISSUED FOR CO-ORDINATION

[illegible]