# NEW HIGH SCHOOL FOR SCHOFIELDS AND TALLAWONG

SCHOFIELDS, NSW 2762



DRAWING TITLE GENERAL-00000 STHS-TTW-01-00-DR-C-00001 **GENERAL COVER SHEET GENERAL NOTES AND LEGEND SHEET 1** STHS-TTW-01-00-DR-C-00003 STHS-TTW-01-00-DR-C-00101 STHS-TTW-01-00-DR-C-00401 **GENERAL ARRANGEMENT PLAN SHEET 1** STHS-TTW-01-00-DR-C-00402 GENERAL ARRANGEMENT PLAN SHEET 2 GENERAL ARRANGEMENT PLAN SHEET 3 STHS-TTW-01-00-DR-C-00403 ROADWORKS-01000 GUNTAWONG ROAD SITEWORKS AND STORMWATER PLAN NIRMAL STREET SITEWORKS AND STORMWATER PLAN SHEET NIRMAL STREET SITEWORKS AND STORMWATER PLAN SHEET 2 **ROAD CROSS SECTIONS - NIRMAL STREET SHEET 1 ROAD CROSS SECTIONS - NIRMAL STREET SHEET 2 ROAD TYPICAL SECTIONS SHEET 2** STHS-TTW-01-00-DR-C-01501 SWEPT PATH PLAN EROSION AND SEDIMENT CONTROL-02000 STHS-TTW-01-00-DR-C-02001 EROSION AND SEDIMENT CONTROL NOTES AND LEGEND SHEET 1 STHS-TTW-01-00-DR-C-02101 EROSION AND SEDIMENT CONTROL PLAN **EARTHWORKS-03000** STHS-TTW-01-00-DR-C-03101 EARTHWORKS CUT AND FILL VOLUMES PLAN STORMWATER-04000 STORMWATER NOTES AND LEGEND SHEET 1 STHS-TTW-01-00-DR-C-04001 STHS-TTW-01-00-DR-C-04101 STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 1 STHS-TTW-01-00-DR-C-04102 STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 2 STHS-TTW-01-00-DR-C-04103 STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 3 STHS-TTW-01-00-DR-C-04104 STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 4 STHS-TTW-01-00-DR-C-04501 STORMWATER DETAILS **RETAINING WALLS-6000** RETAINING WALL PLAN SHEET 1 STHS-TTW-01-00-DR-C-06101 STHS-TTW-01-00-DR-C-06102 RETAINING WALL PLAN SHEET 2 PAVEMENT-07000 STHS-TTW-01-00-DR-C-07001 PAVEMENT NOTES AND LEGEND STHS-TTW-01-00-DR-C-07101 PAVEMENT PLAN STHS-TTW-01-00-DR-C-07501 PAVEMENT DETAILS SHEET 1 STHS-TTW-01-00-DR-C-07502 PAVEMENT DETAILS SHEET 2 STHS-TTW-01-00-DR-C-07503 PAVEMENT DETAILS SHEET 3 STHS-TTW-01-00-DR-C-07504 PAVEMENT DETAILS SHEET 4 STHS-TTW-01-00-DR-C-07505 PAVEMENT DETAILS SHEET 5 STHS-TTW-01-00-DR-C-07506 PAVEMENT DETAILS SHEET 6 SIGNAGE AND LINEMARKING-08000 STHS-TTW-01-00-DR-C-08121 SIGNAGE AND LINEMARKING PLAN (PUBLIC DOMAIN) SHEET 1 STHS-TTW-01-00-DR-C-08122 SIGNAGE AND LINEMARKING PLAN (PUBLIC DOMAIN) SHEET 2 SIGNAGE AND LINEMARKING PLAN (PUBLIC DOMAIN) SHEET 3 STHS-TTW-01-00-DR-C-08123

NOTE: PUBLIC DOMAIN DRAWINGS LISTED IN RED





GENERAL COVER SHEET Scale at A1 Drawn Designed Approved

ES AW CR

Project No Originator Type Role Sheet No.

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

#### REFERENCE DRAWINGS

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

CONSULTANT	DRAWING TITLE	DRAWING NUMBER	REVISION	DATE
DJRD	ARCH	STHS-DJRD-00-00-REF- A-0251	03	22.11.2024
SDG	SURVEY		Α	09.10.2024
DJRD	TREE RETENTION PLAN	STHS-DJRD-00-00-REF- A-0111	03	22.11.2024
GCC	HAMBLEDON ROAD EXTENSION - RIVERSONE ROAD & DRAINAGE DESIGN	STHS-DJRD-00-00-DR-A- 0300	P02	01.11.2024
C & M CONSULTING ENGINEERS	165 GUNTAWONG ROAD, ROUSE HILL	02706_S138-201	G	12.09.2024
ENSPIRE	151& 161 TALLAWONG ROAD, ROUSE HILL	220093-DA-C05.01	5	16.12.2022

#### **BOUNDARIES AND EASEMENTS**

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

#### SURVEY

ORIGIN OF LEVELS:
DATUM OF LEVELS:
COORDINATE SYSTEM:
SURVEY PREPARED BY:
SETOUT POINTS:

PM 43374 RL 38.274

GDA 2020 PROJECT SURVEYORS **CONTACT SURVEYOR** 

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

#### **UNDERGROUND SERVICES - WARNING**

- 1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON TAYLOR THOMSON WHITTINGS DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.
- 2. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION
- MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION. THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE
- ENGINEER/SUPERINTENDENT. 4. THE CONTRACTOR IS TO GET APPROVAL FROM THE RELEVANT STATE SURVEY DEPARTMENT, TO REMOVE/ADJUST ANY SURVEY MARK. THIS INCLUDES BUT IS NOT LIMITED TO; STATE SURVEY MARKS (SSM), PERMANENT MARKS (PM), CADASTRAL REFERENCE MARKS OR ANY OTHER SURVEY MARK WHICH IS TO BE REMOVED OR ADJUSTED IN ANY WAY.
- 5. TAYLOR THOMSON WHITTING PLANS DO NOT INDICATE THE PRESENCE OF ANY SURVEY MARK. THE CONTRACTOR IS TO UNDERTAKE THEIR OWN SEARCH.

#### BEFORE YOU DIG AUSTRALIA (BYDA)

- 1. PUBLIC SERVICE UTILITY INFORMATION SHOWN ON PLAN HAS BEEN COMPLIED FROM INFORMATION RECEIVED FROM DIAL BEFORE YOU DIG INQUIRY, REFERENCE NUMBER No. 37862101 OBTAINED ON 21.10.2024 UNLESS SPECIFICALLY SHOWN OTHERWISE, THIS LOCATION AND DEPTH OF SERVICES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED.
- 2. THE LOCATION OF SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES AND SHOULD BE CONFIRMED BY

#### SITE INSPECTION." SITE WORKS

3 SCHEMATIC DESIGN FOR REF JL ES 10.01.2025

2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024

1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024

Rev Description

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

Eng Draft Date Rev Description

#### PUBLIC DOMAIN WORKS

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

#### TENDER DOCUMENTATION

- 1. THESE DRAWINGS ARE PRELIMINARY DRAWINGS ISSUED FOR TENDER AS AN INDICATION OF THE EXTENT OF WORKS ONLY. THEY ARE NOT A COMPLETE CONSTRUCTION SET OF DRAWINGS.
- 2. TO DETERMINE THE FULL EXTENT OF WORK, THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ALLOW FOR ALL ITEMS SHOWN ON ARCHITECTURAL AND OTHER DRAWINGS AS NOT ALL ITEMS ARE SHOWN ON THE STRUCTURAL/CIVIL WORKS DRAWINGS.
- 3. SHOULD ANY AMBIGUITY, ERROR, OMISSIONS, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE DOCUMENTS, IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENT
- 4. RATES SHOWN ON THE DRAWINGS ARE FOR THE FINAL STRUCTURE/CIVIL WORKS IN PLACE AND DO NOT ALLOW FOR ANY WASTAGE, ROLLING MARGINS, OVER SUPPLY OR FABRICATION REQUIREMENTS. ETC.

#### DESIGN AND CONSTRUCT DOCUMENTATION

- 1. THE LEVEL OF DETAIL / DESIGN REFLECTED IN THESE DOCUMENTS IS BASED ON THE UNDERSTANDING THIS WILL BE BUILT AS PART OF A DESIGN & CONSTRUCT CONTRACT.
- THE CONTRACTOR SHALL RETAIN THE RESPONSIBILITY TO UNDERTAKE DETAILED DESIGN, CONFIRM
- COMPLIANCE WITH RELEVANT STANDARDS, CONSENT CONDITIONS & THE SPECIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE FINAL DESIGN IS CO-ORDINATED FULLY WITH OTHER CONSULTANTS.
- 4. NO VARIATION WILL BE ACCEPTED FOR DESIGN AMENDMENTS REQUIRED TO MEET THE FUNCTIONAL OBJECTIVE OF THIS DOCUMENTATION.

#### SAFETY IN DESIGN

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

1. EXISTING SERVICES

CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN PLACE TO DEMOLISH AND/OR RELOCATE.

2. EXISTING STRUCTURES

CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S)

3. EXISTING TREES

CONTRACTOR TO BE AWARE EXISTING TREES EXIST WITHIN THE SITE WHICH NEED TO BE PROTECTED. TO PREVENT DAMAGE TO TREES AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING TREES. ADVICE NEEDS TO BE SOUGHT FROM ARBORIST AND/OR LANDSCAPE ARCHITECT ON MEASURES REQUIRED TO PROTECT TREES.

CONTRACTOR TO BE AWARE GROUND WATER LEVELS ARE CLOSE TO EXISTING SURFACE LEVEL TEMPORARY DE-WATERING MAY BE REQUIRED DURING CONSTRUCTION WORKS.

5. EXCAVATIONS

DEEP EXCAVATIONS DUE TO STORMWATER DRAINAGE WORKS IS REQUIRED. CONTRACTOR TO ENSURE SAFE WORKING PROCEDURES ARE IN PLACE FOR WORKS. ALL EXCAVATIONS TO BE FENCED OFF AND BATTERS ADEQUATELY SUPPORTED TO APPROVAL OF GEOTECHNICAL ENGINEER.

6. GROUND CONDITIONS

- CONTRACTOR TO BE AWARE OF THE SITE GEOTECHNICAL CONDITIONS. REFER TO GEOTECHNICAL REPORT BY
- PSM SCHOFIELDS TALLAWONG HIGH SCHOOL SITE 1 GUNTAWING ROAD GEOTECHNICAL
- INVESTIGATION (REF PSM4693-012L) DATED 21 OCTOBER 2024)
- DETAILED SITE INVESTIGATION REPORT, PROPOSED TALLAWONG HIGH SCHOOL (REF 67774/ **162496 DATED 1 OCTOBER**
- 7. HAZARDOUS MATERIALS EXISTING ASBESTOS PRODUCTS & CONTAMINATED MATERIAL MAY BE PRESENT ON SITE. CONTRACTOR TO ENSURE ALL HAZARDOUS MATERIALS ARE IDENTIFIED PRIOR TO COMMENCING WORKS. SAFE WORKING PRACTICES AS PER RELEVANT AUTHORITY TO BE ADOPTED AND APPROPRIATE PPE TO BE USED WHEN HANDLING ALL HAZARDOUS MATERIALS. REFER TO GEOTECHNICAL/ENVIRONMENTAL REPORT BY
- REMEDIAL ACTION PLAN, PROPOSED TALLAWONG HIGH SCHOOL (REF 67774/162922) DATED 1
- LONG TERM ENVIRONMENTAL MANAGEMENT PLAN, PROPOSED TALLAWONG HIGH SCHOOL (REF 67774 /162926 DATED 1 OCTOBER 2024
- 8. CONFINED SPACES

CONTRACTOR TO BE AWARE OF POTENTIAL HAZARDS DUE TO WORKING IN CONFINED SPACES SUCH AS STORMWATER PITS, TRENCHES AND/OR TANKS. CONTRACTOR TO PROVIDE SAFE WORKING METHODS AND USE APPROPRIATE PPE WHEN ENTERING CONFINED SPACES.

9. MANUAL HANDLING

CONTRACTOR TO BE AWARE MANUAL HANDLING MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ENSURE MANUAL HANDLING PROCEDURES AND ASSESSMENTS ARE IN PLACE PRIOR TO COMMENCING WORKS.

10. WATER POLLUTION

CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE TAKEN TO PREVENT POLLUTANTS FROM CONSTRUCTION WORKS CONTAMINATING THE SURROUNDING ENVIRONMENT.

11. SITE ACCESS/EGRESS

CONTRACTOR TO BE AWARE SITE WORKS OCCUR IN CLOSE PROXIMITY TO FOOTPATHS AND ROADWAYS. CONTRACTOR TO ERECT APPROPRIATE BARRIERS AND SIGNAGE TO PROTECT SITE PERSONNEL AND PUBLIC.

12. VEHICLE MOVEMENT

Eng Draft Date Rev Description

CONTRACTOR TO SUPPLY AND COMPLY WITH TRAFFIC MANAGEMENT PLAN AND PROVIDE ADEQUATE SITE TRAFFIC CONTROL INCLUDING A CERTIFIED TRAFFIC MARSHALL TO SUPERVISE VEHICLE MOVEMENTS WHERE NECESSARY.

NSW

Eng Draft Date

### NOT FOR CONSTRUCTION

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

#### CIVIL INSPECTION CERTIFICATES

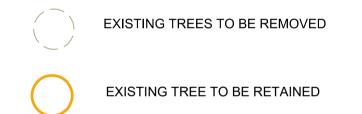
THE FOLLOWING MUST BE PROVIDED BY THE CONTRACTOR A MINIMUM 2 WEEKS PRIOR TO THE REQUESTED DATE OF A CIVIL INSPECTION CERTIFICATE FOR OCCUPATION CERTIFICATE. SUBMISSIONS MUST BE PROVIDED PROGRESSIVELY AS WORKS ARE COMPLETED IN ACCORDANCE WITH THE CIVIL SPECIFICATION. THE PROGRAM MUST ALLOW ADEQUATE TIME FOR DEFECTS TO BE RECTIFIED SHOULD THIS BE REQUIRED.

- 1. NOTIFICATION THAT ALL CIVIL WORKS TO BE CERTIFIED HAVE BEEN COMPLETED TO ALLOW A FINAL INSPECTION TO BE UNDERTAKEN.
- 2. 2.WRITTEN CONFIRMATION FROM THE CONTRACTOR THAT ALL CIVIL SITE INSPECTION REPORTS HAVE BEEN CLOSED OUT
- 3. 3.CCTV (INCLUDING WINCAN LOG OR EQUIVALENT) OF ALL CIVIL STORMWATER WORKS TO BE
- 4. 4.WAE FROM A REGISTERED SURVEYOR (PDF & DWG) FOR ALL CIVIL STORMWATER TO BE
- CERTIFIED. 5. 5.WAE FROM A REGISTERED SURVEYOR (PDF, DWG & 3D TIN) FOR ALL EXTERNAL CIVIL LEVELS TO
- BE CERTIFIED. 6.HEAD CONTRACTORS STATEMENT OF CONSTRUCTION COMPLIANCE.
- 7.HYDRAULIC CONTRACTORS INSTALLATION CERTIFICATE. 8.3RD PARTY INSTALLATION CERTIFICATES FOR PROPRIETARY PRODUCTS AND/OR D&C ELEMENTS.
- 9.COMPACTION TEST RESULTS IN ACCORDANCE WITH THE CIVIL SPECIFICATION.
- 10. 10.MATERIALS CERTIFICATES PRIOR TO INSTALLATION IN ACCORDANCE WITH THE CIVIL
- 11. 11.WRITTEN CONFIRMATION FROM TFNSW AND/OR COUNCIL CONFIRMING COMPLETION AND ACCEPTANCE OF S138 WORKS IF APPLICABLE.

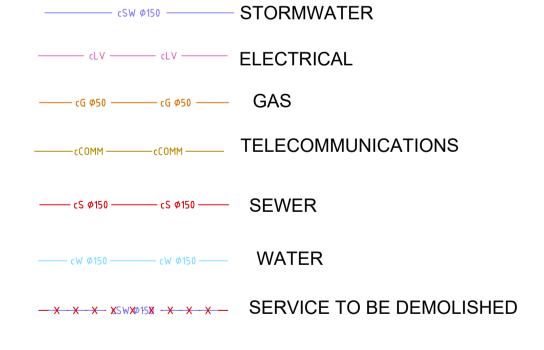
### **BOUNDARIES**

<b>EXISTING</b>	REMOVED	<u>PROPOSED</u>	
	× - × - × - × - × - × - × - × - × -		BLOCK BOUNDARY
BUILDINGS			
EXISTING	REMOVED	PROPOSED	
	*		BUILDING ENVELOPE
			FUTURE BUILDING ENVELOPE

#### LANDSCAPE



### **EXISTING SERVICES**



#### CLASSIFICATION OF EXISTING UTILITY INFORMATION

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

#### NOTE

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

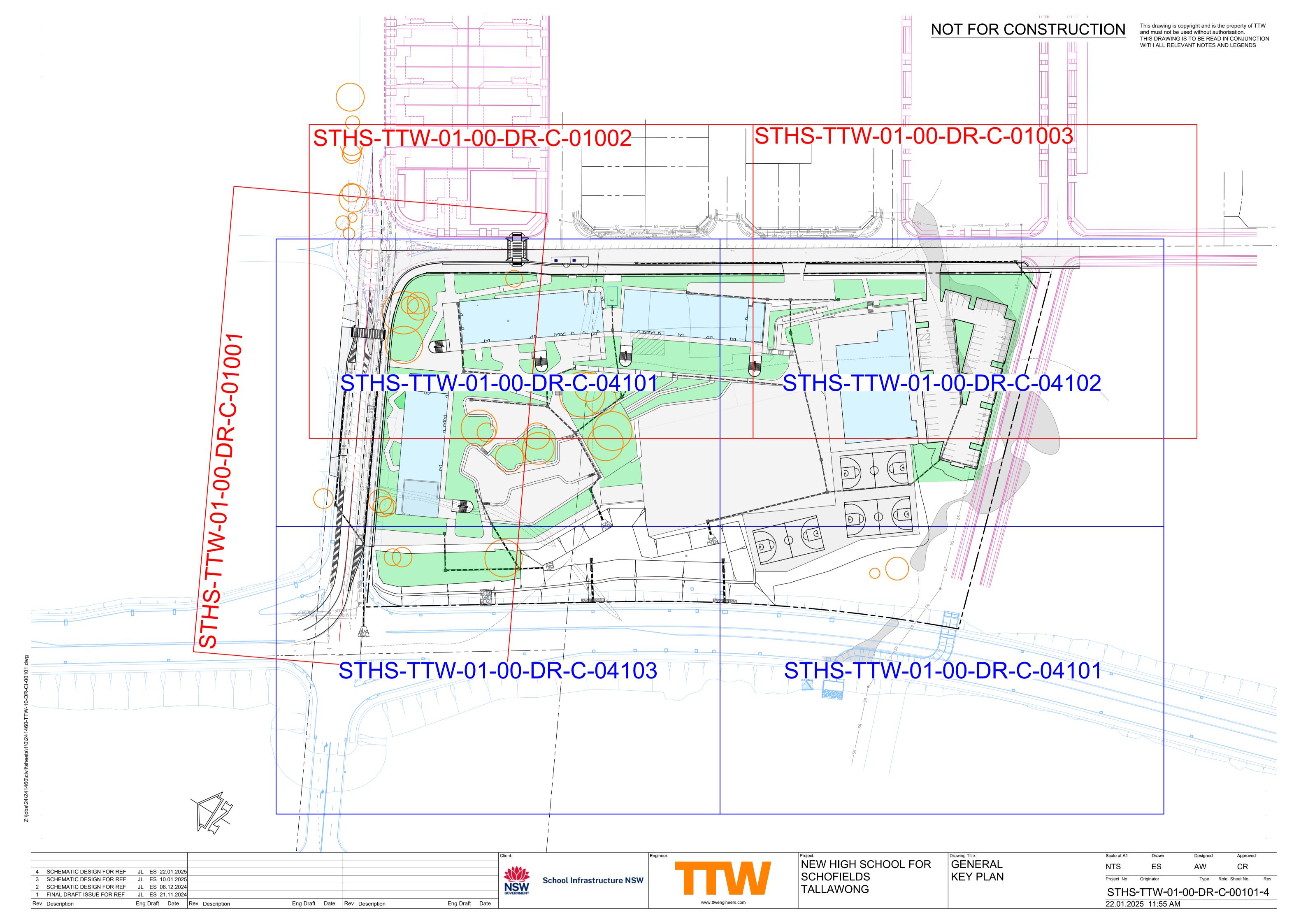


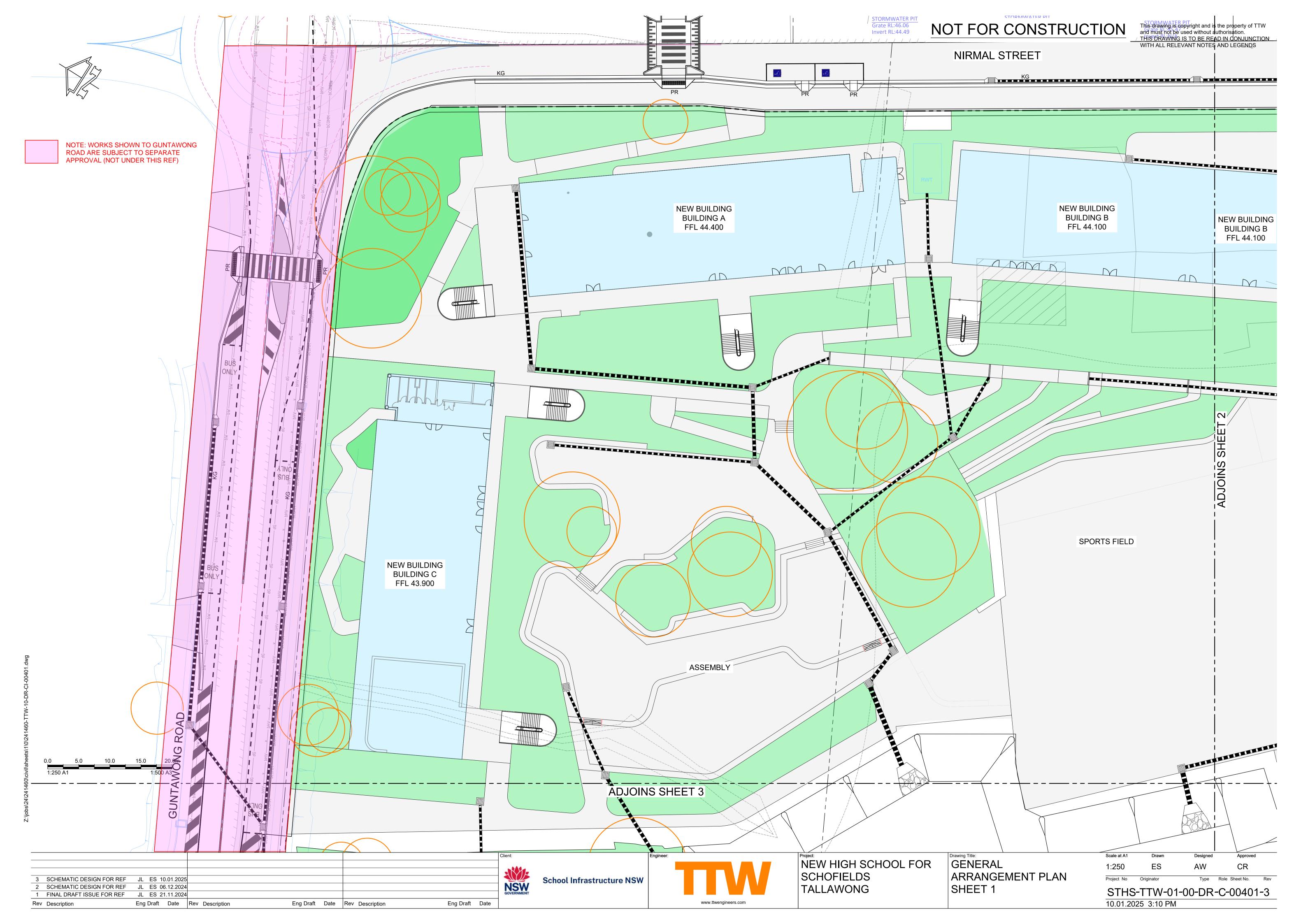
NEW HIGH SCHOOL FOR SCHOFIELDS **TALLAWONG** 

GENERAL NOTES AND LEGEND SHEET 1

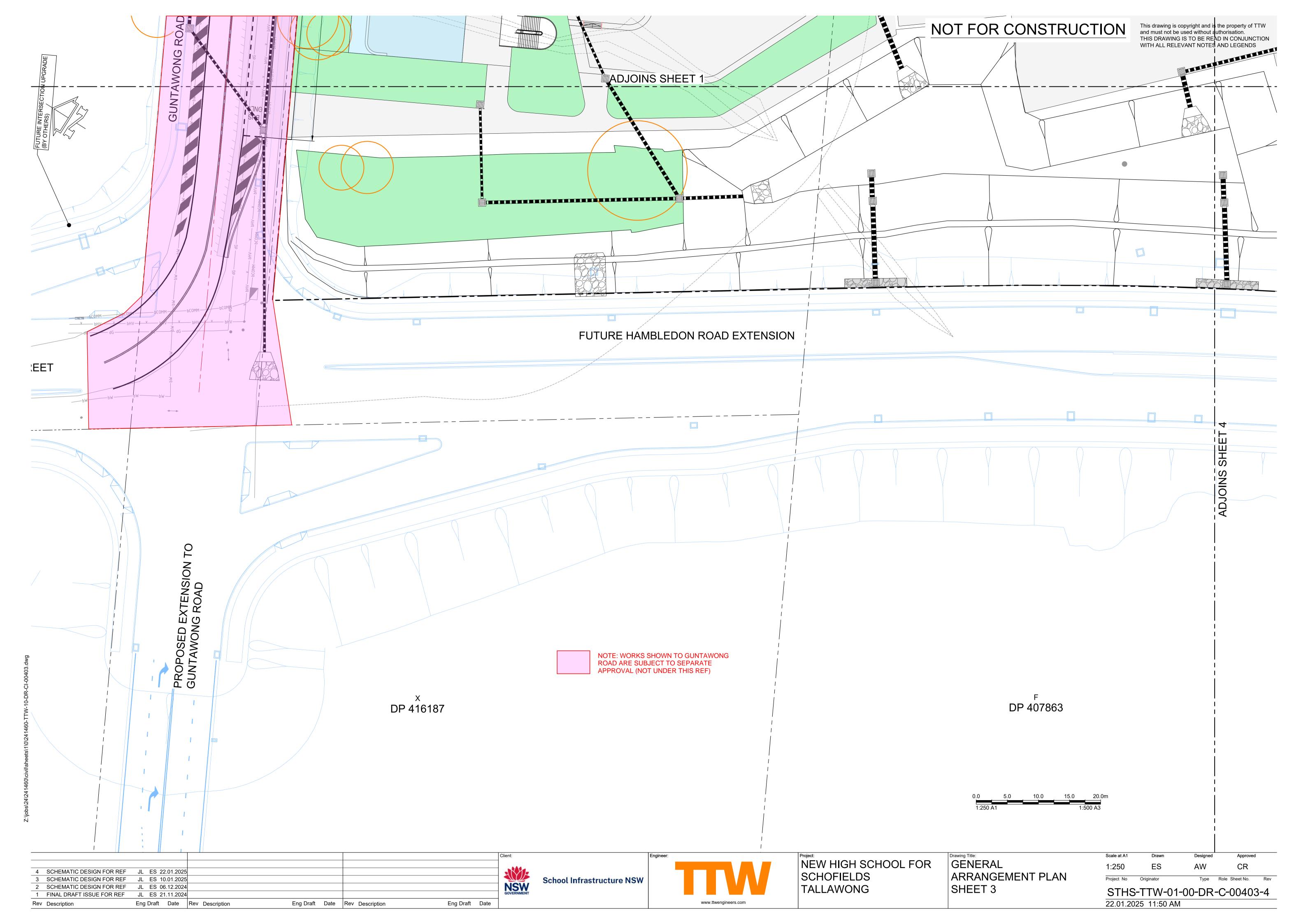
Designed Approved ΑW

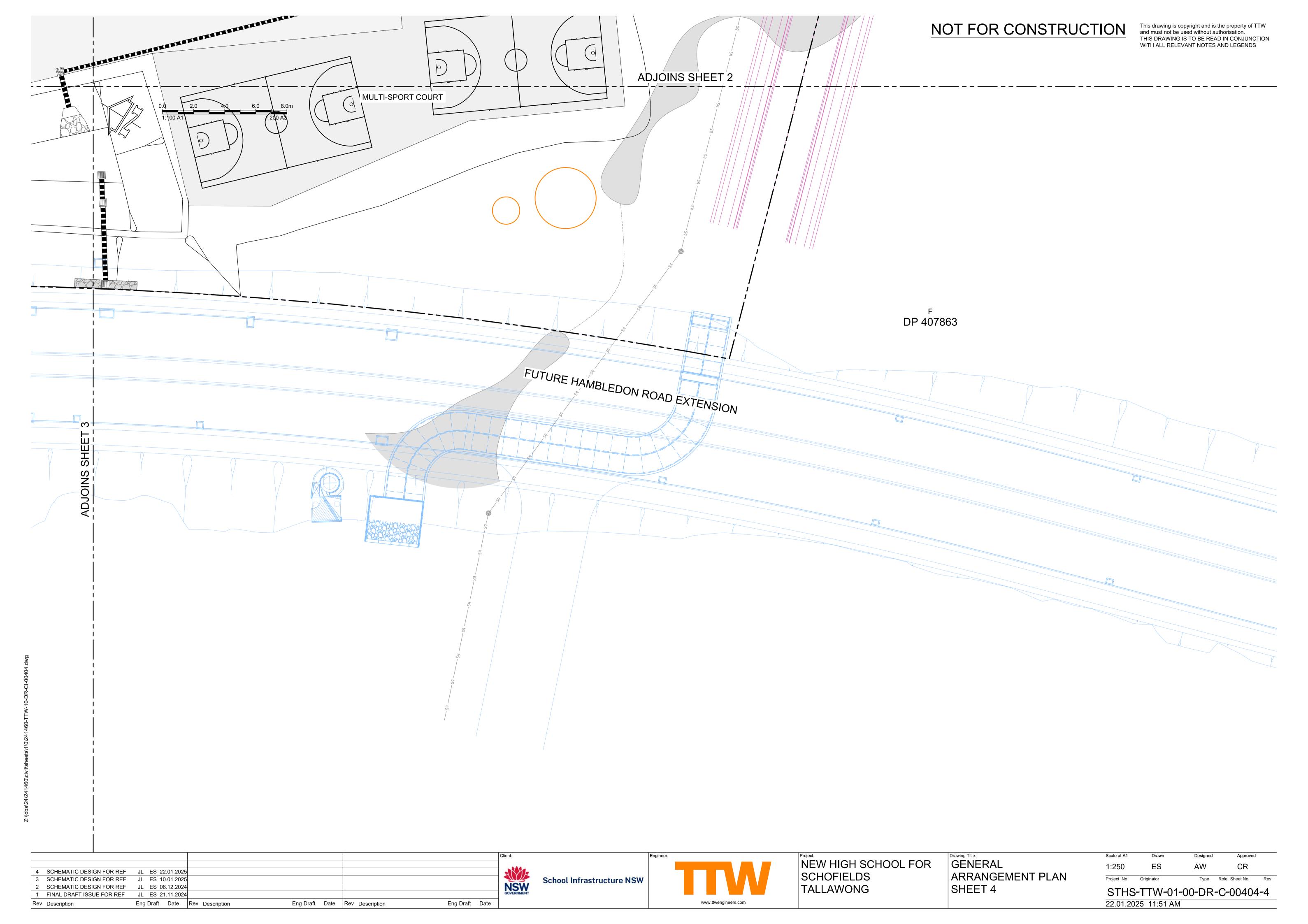
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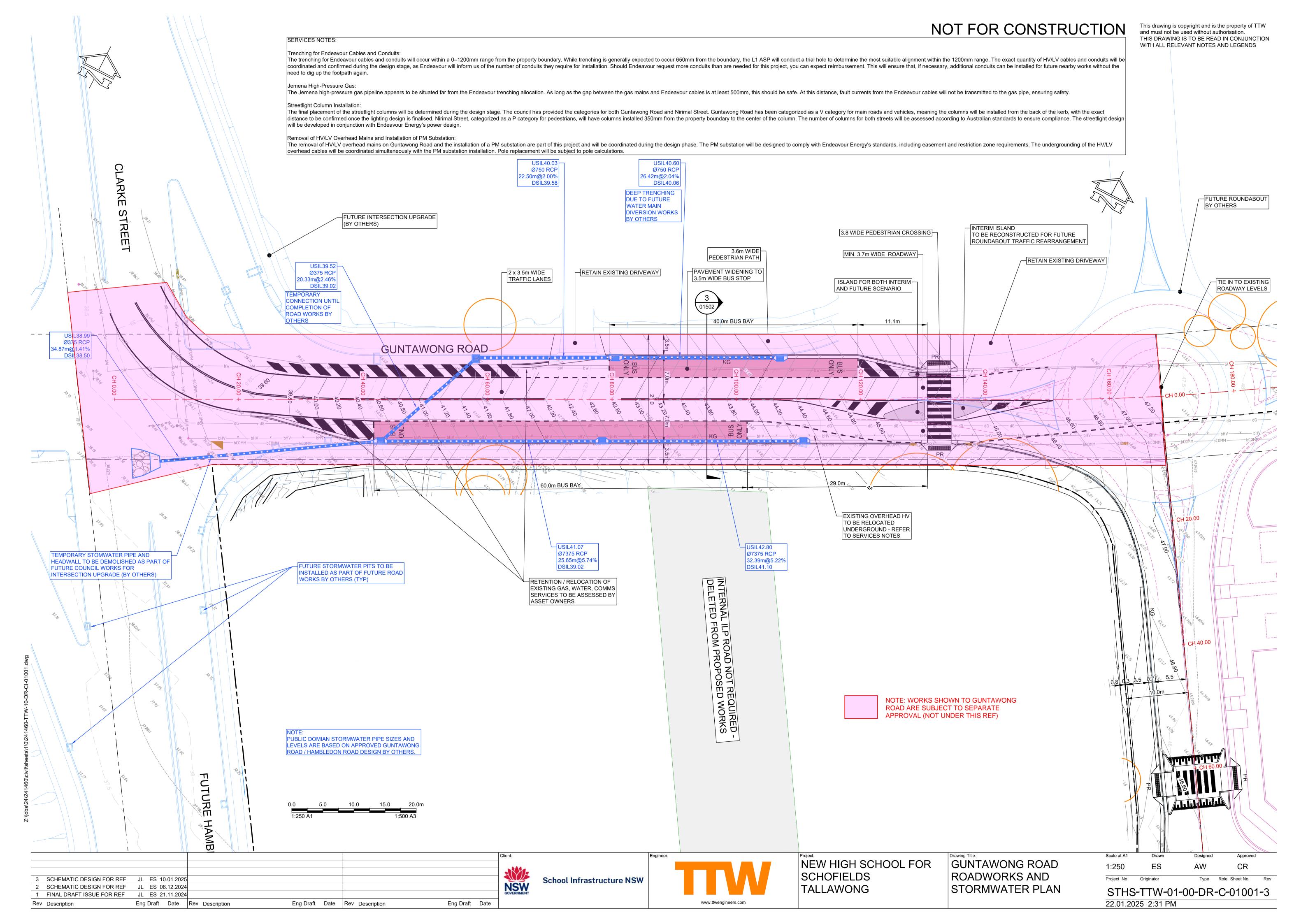


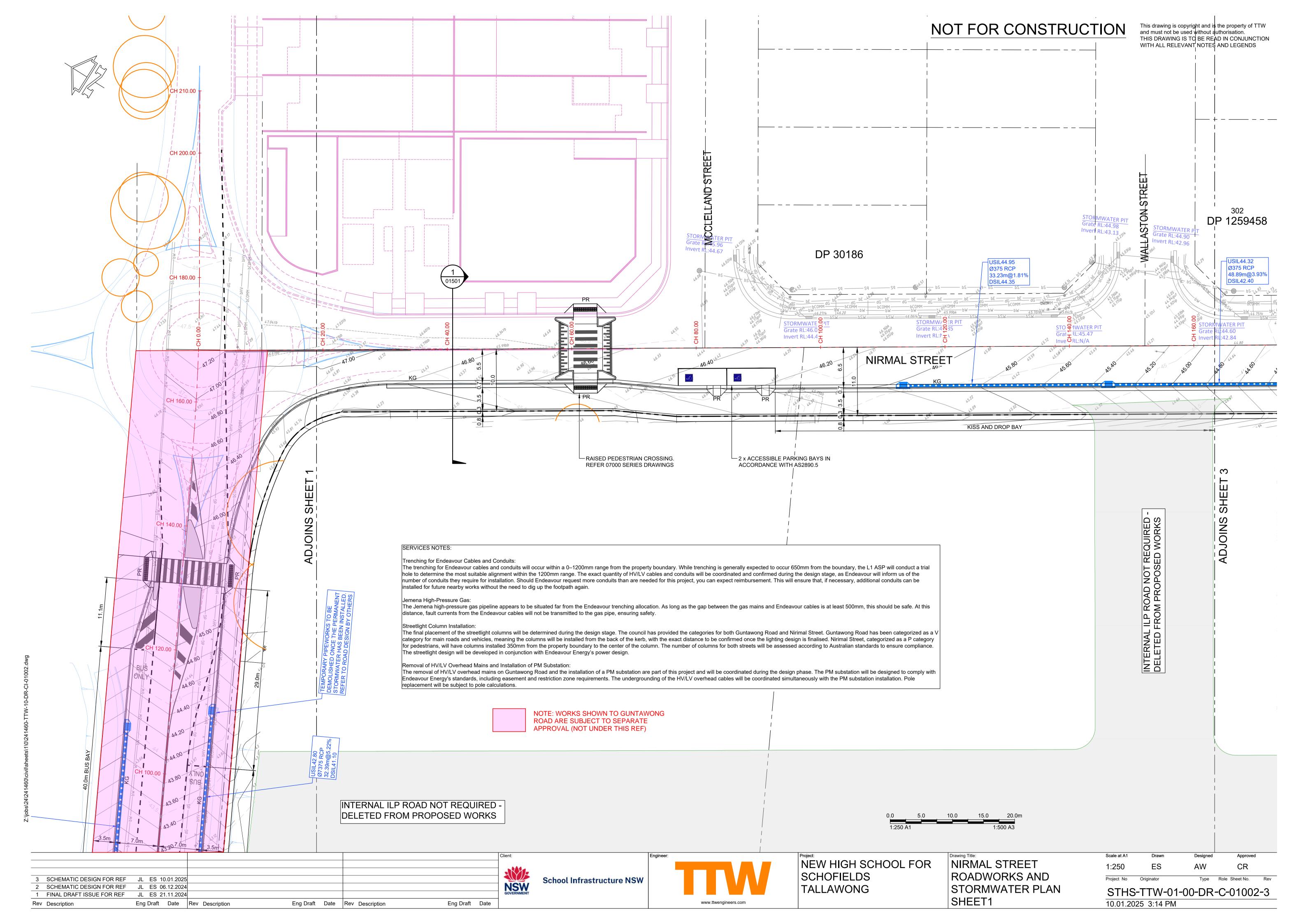


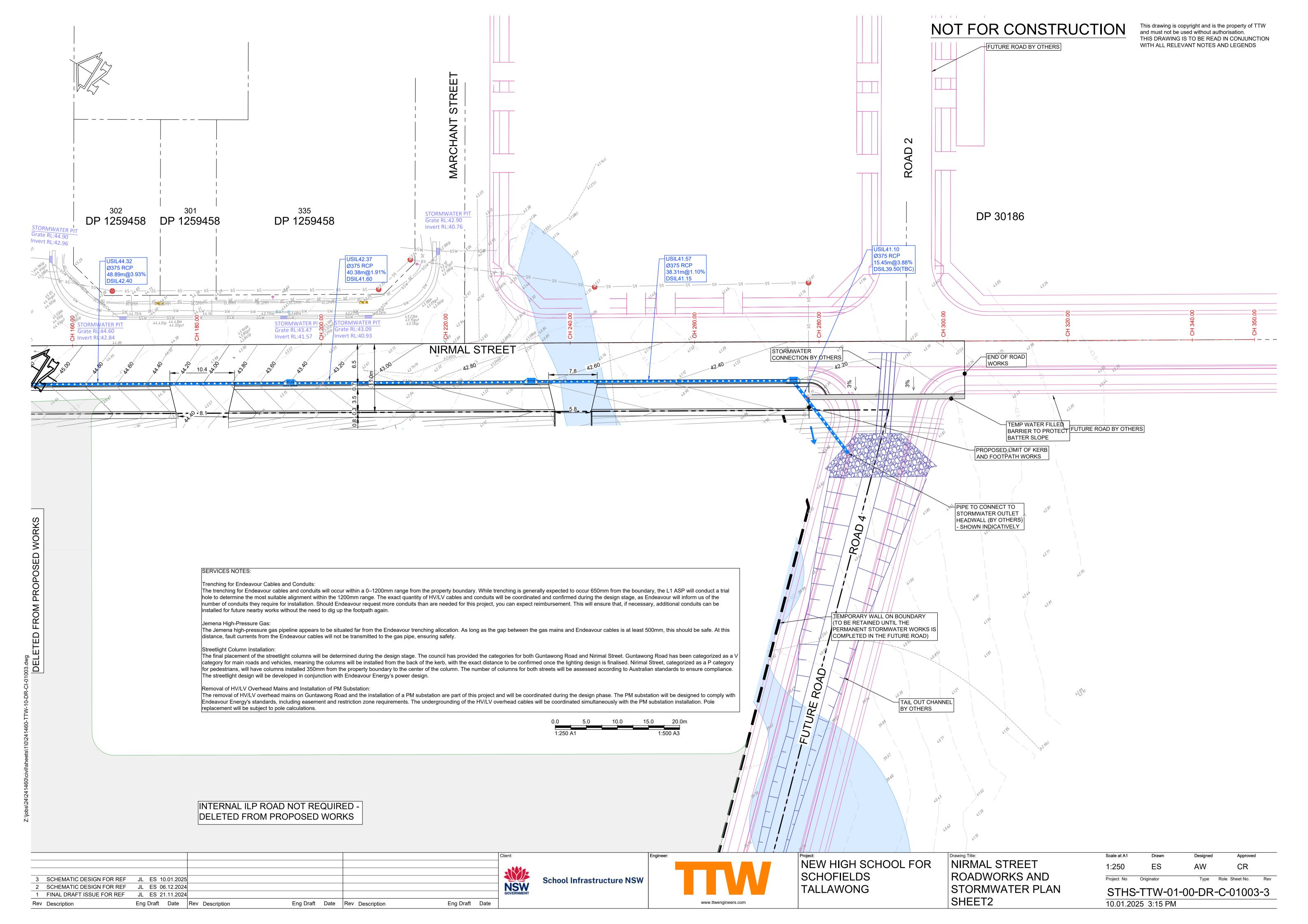


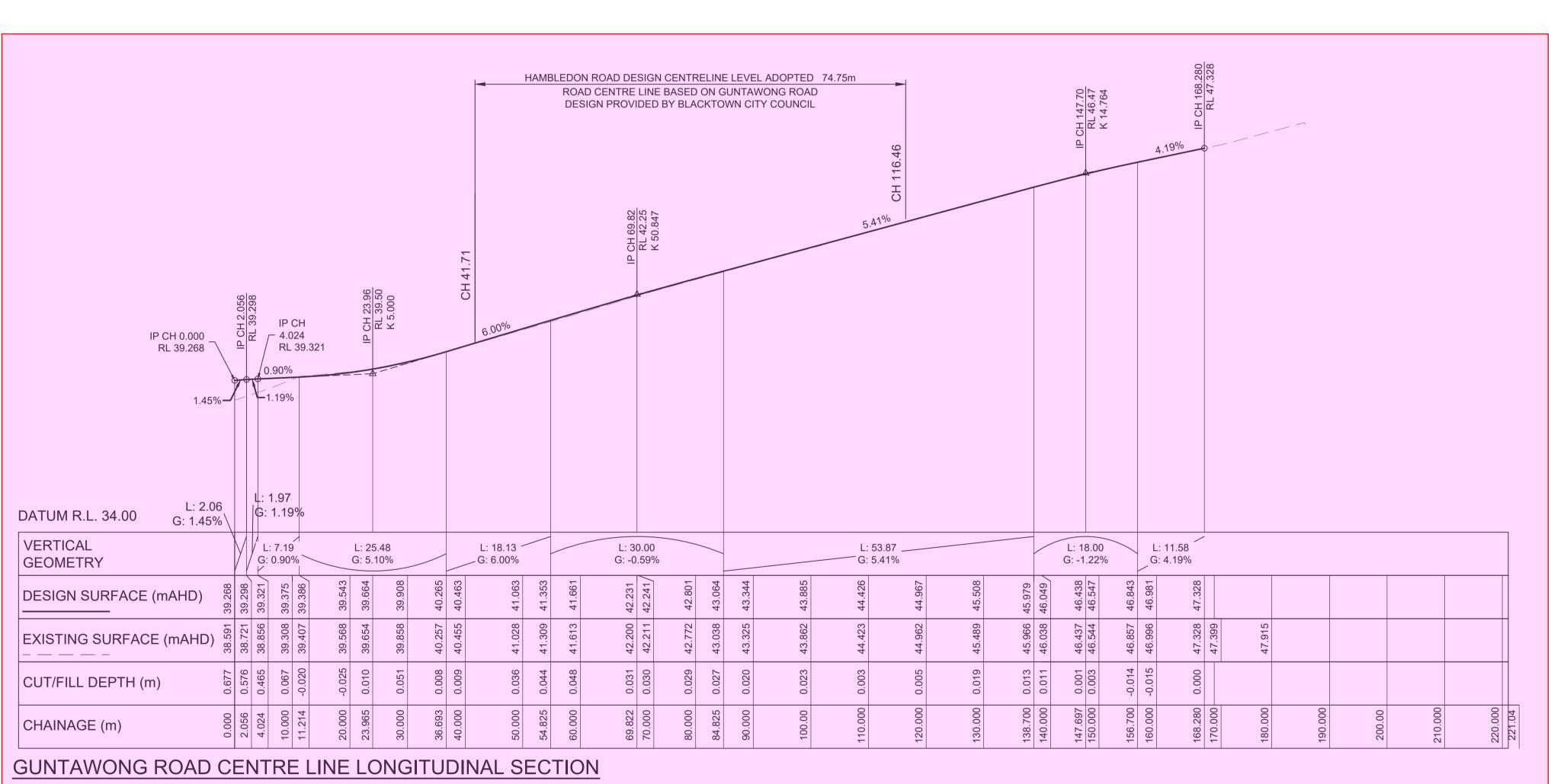




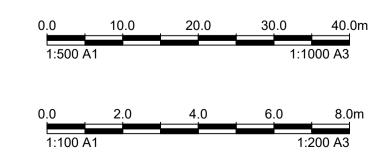




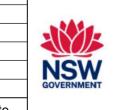




SCALES: HORIZONTAL 1:500 VERTICAL 1:100



											Client:
											4XX
3 SCHEMATIC DES	IGN FOR REF JL	_ ES 1	0.01.2025								
2 SCHEMATIC DES	IGN FOR REF JL	_ ES 0	6.12.2024								NS GOVERNM
1 FINAL DRAFT ISS	UE FOR REF JL	ES 2	1.11.2024								GOVERNM
Rev Description	En	g Draft	Date	Rev	Description	Eng Draft	Date	Rev Description	Eng Draft	Date	



**School Infrastructure NSW** 



NEW HIGH SCHOOL FOR SCHOFIELDS **TALLAWONG** 

Prawing Title:
ROAD LONGITUDINAL SECTION GUNTAWONG ROAD

ES ΑW STHS-TTW-01-00-DR-C-01201-3

10.01.2025 3:16 PM

KERB RETURN INVERT OF KERB LONGITUDINAL SECTION SCALES: HORIZONTAL 1:500 VERTICAL 1:100

KERB RETURN PLAN

SCALES: 1:500

DATUM R.L. 40.00

HORIZONTAL ALIGNMENT

DESIGN SURFACE (mAHD)

EXISTING SURFACE (mAHD)

CUT/FILL DEPTH (m)

CHAINAGE (m)

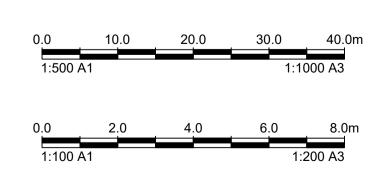
0.95%

R=60.000 L=19.280

0.100

### NIRMAL STREET CENTRE LINE LONGITUDINAL SECTION

SCALES: HORIZONTAL 1:500 VERTICAL 1:100



									Client:
3	SCHEMATIC DESIGN FOR REF	JL ES 10.01.2025							
2	SCHEMATIC DESIGN FOR REF	JL ES 06.12.2024							NSV
1	FINAL DRAFT ISSUE FOR REF	JL ES 21.11.2024							GOVERNM
Rev	Description	Eng Draft Date	Rev Description	Eng Draft [	Date	Rev Description	Eng Draft	Date	
						•			•

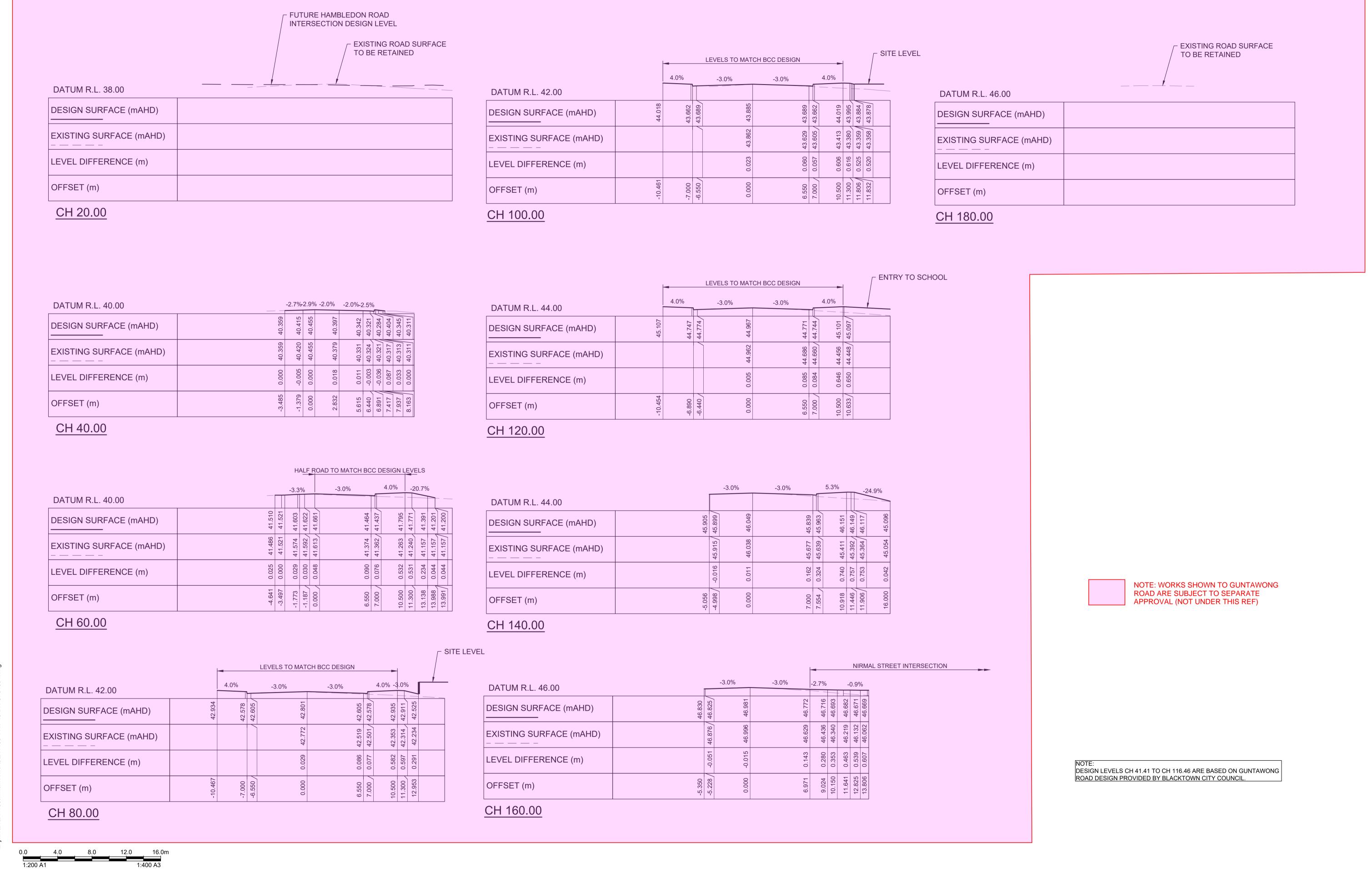




NEW HIGH SCHOOL FOR SCHOFIELDS **TALLAWONG** 

ROAD LONGITUDINAL SECTION NIRMAL STREET

ES CR AW



3 SCHEMATIC DESIGN FOR REF JL ES 10.01.2025 2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024 1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024 Rev Description

Eng Draft Date Rev Description

Eng Draft Date Rev Description

NSW Eng Draft Date

**School Infrastructure NSW** www.ttwengineers.com



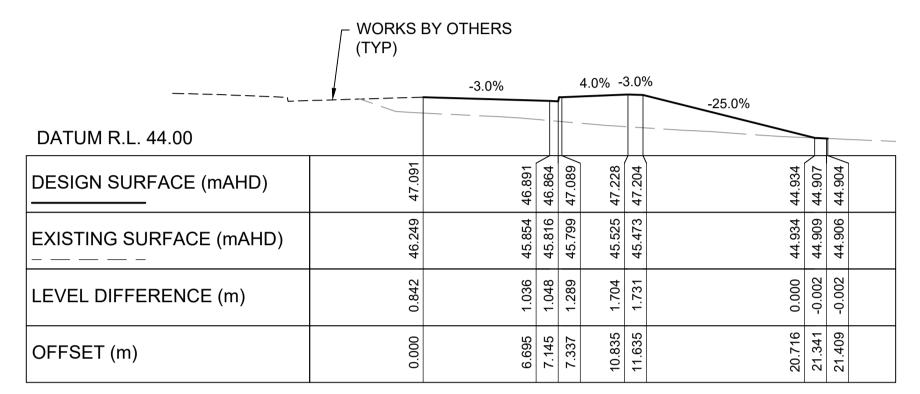
CROSS SECTIONS GUNTAWONG ROAD

Designed ES CR 1:200 ΑW Type Role Sheet No. Rev

STHS-TTW-01-00-DR-C-01301-3 10.01.2025 3:16 PM

DATUM R.L. 46.00		-4.3%			-4.4%			-4	1.5%							
DESIGN SURFACE (mAHD)	47.328	47.230	47.147	47.057	46.974	46.889	46.824	46.796	46.702	46.621	46.523	46.493	46.411	46.331	46.269	46.204
EXISTING SURFACE (mAHD)	47.328	47.231	47.149	47.061	46.981	46.898	46.827	46.797	46.696	46.610	46.508	46.478	46.395	46.317	46.256	46.188
LEVEL DIFFERENCE (m)	0.000	-0.001	-0.003	-0.005	-0.007	-0.009	-0.003	-0.001	900.0	0.011	0.015	0.016	0.016	0.014	0.013	0.015
OFFSET (m)	0.000	2.281	4.215	6.288	8.176	10.126	11.608	12.241	14.323	16.043	18.098	18.703	20.355	21.923	23.134	24.372

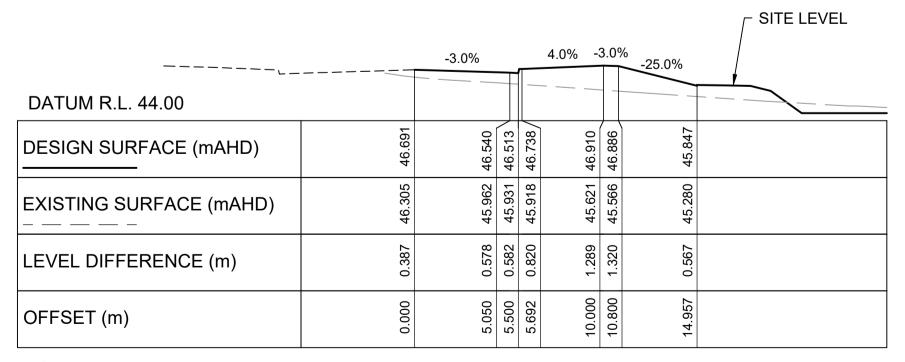
### CH 0.00



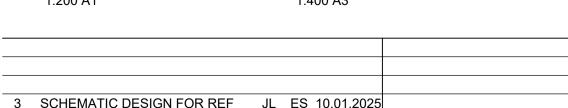
### CH 20.00

 DATUM R.L. 44.00		-3.0%			4.0% -	3.0%	% -25.0%	SITE LEVEL
DESIGN SURFACE (mAHD)	46.891	46.740	46.713	46.938	47.110	47.086	45.188	
EXISTING SURFACE (mAHD)	45.881	45.471	45.437	45.423	45.145	45.110	44.616	
LEVEL DIFFERENCE (m)	1.010	1.269	1.275	1.515	1.965	1.976	0.572	
OFFSET (m)	0.000	5.050	5.500	5.692	10.000	10.800	18.393	

### CH 40.00



### CH 60.00



3	SCHEMATIC DESIGN FOR REF	JL ES 10	0.01.2025							
2	SCHEMATIC DESIGN FOR REF	JL ES 0	6.12.2024							
1	FINAL DRAFT ISSUE FOR REF	JL ES 2	1.11.2024							
Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev Description	Eng Draft	Date

┌ SITE LEVEL 4.0% -3.0% ------**DATUM R.L. 44.00** DESIGN SURFACE (mAHD) 46.149 46.119 46.106 EXISTING SURFACE (mAHD) 0.161 LEVEL DIFFERENCE (m) OFFSET (m)

### CH 80.00

<sub></sub>		-3.0%			4.0% -	3.0%	<sup>%</sup> -25.0%	SITE LEVEL
DATUM R.L. 44.00								
DESIGN SURFACE (mAHD)	46.291	46.110	46.083	46.308	46.480	46.456	45.493	
EXISTING SURFACE (mAHD)	46.187	45.877	45.845	45.832	45.640	45.600	45.410	
LEVEL DIFFERENCE (m)	0.105	0.233	0.237	0.476	0.840	0.856	0.084	
OFFSET (m)	0.000	6.050	6.500	6.692	11.000	11.800	15.651	

### CH 100.00

	WORKS (TYP)	BY OTHERS							
<b></b> ,		-3.0%			4.0% -3	3.0%	~ 25.0%		
DATUM R.L. 44.00								L	
DESIGN SURFACE (mAHD)	46.077	45.896	45.869	46.094	46.266	46.242	44.984	44.970	
EXISTING SURFACE (mAHD)	45.996	45.502	45.464	45.448	45.087	45.048	44.984	44.983	
LEVEL DIFFERENCE (m)	0.081	0.394	0.405	0.646	1.179	1.193	0.000	-0.012	
OFFSET (m)	0.000	6.050	6.500	6.692	11.000	11.800	16.831	16.880	

### CH 120.00

 DATUM R.L. 44.00		-3.0%			4.0% -	3.0%	<sup>/6</sup> -25.0%	SITE LEVEL
DESIGN SURFACE (mAHD)	45.683	45.502	45.475	45.700	45.872	45.848	45.143	
EXISTING SURFACE (mAHD)	45.602	45.264	45.233	45.220	44.935	44.900	44.735	
LEVEL DIFFERENCE (m)	0.081	0.238	0.241	0.479	0.937	0.948	0.408	
OFFSET (m)	0.000	6.050	6.500	6.692	11.000	11.800	14.621	

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### CH 140.00

——————————————————————————————————————		-3.0%			4.0% -	3.0%	6 -25.0%	SITE LEVEL
DATUM R.L. 42.00								
DESIGN SURFACE (mAHD)	45.063	44.881	44.854	45.079	45.252	45.228	44.528	
EXISTING SURFACE (mAHD)	45.026	44.695	44.671	44.661	44.463	44.422	44.280	
LEVEL DIFFERENCE (m)	0.037	0.186	0.183	0.418	0.789	0.805	0.248	
OFFSET (m)	0.000	6.050	6.500	6.692	11.000	11.800	14.600	

### CH 160.00

						SITE LEVEL
<b></b>		-3.0%			4.0%	
DATUM R.L. 42.00				-		
DESIGN SURFACE (mAHD)	44.230	44.049	44.022	44.247	44.414	
EXISTING SURFACE (mAHD)	44.204	43.876	43.852	43.842	43.615	
LEVEL DIFFERENCE (m)	0.026	0.173	0.169	0.404	0.799	
OFFSET (m)	0.000	6.050	6.500	6.692	10.870	

### CH 180.00

	WORKS E	BY OTHERS							
		-3.0%		4.0% -	3.0%	<del>-25.0%</del>			
DATUM R.L. 40.00									
DESIGN SURFACE (mAHD)	43.397	43.216	43.189	[]	43.562	42.379	42.341	42.323/	
EXISTING SURFACE (mAHD)	43.403	42.936	42.895	42.680	42.648	42.379	42.362	42.354	
LEVEL DIFFERENCE (m)	-0.005	0.280	0.536	906:0	0.914	0.000	-0.021	-0.031	
OFFSET (m)	0.000	6.050	6.500	11.000	11.800	16.533	16.796	16.926	

### CH 200.00

							SITE LEV	ΈL	$\overline{}$
		-3.0%			4.0% -	3.0%	-25.0%		
DATUM R.L. 40.00									
DESIGN SURFACE (mAHD)	42.951	42.769	42.742	42.967	43.140	43.116	41.214	41.207	
EXISTING SURFACE (mAHD)	42.887	41.856	41.820	41.805	41.531	41.505	41.214	41.213	
LEVEL DIFFERENCE (m)	0.064	0.913	0.922	1.163	1.609	1.611	0.000	-0.006	
OFFSET (m)	0.000	6.050	6.500	6.692	11.000	11.800	19.406	19.445	

### CH 220.00

roject:	Drawing Title:
NEW HIGH SCHOOL FOR	CROSS
SCHOFIELDS	NIRMA
TALLAWONG	SHEET

Drawing Title:
CROSS SECTIONS
NIRMAL STREET
SHEET1

Scale at A1	Drawn	Designed	Approved	
1:200	ES	AW	CR	
Project No	Originator	Туре	Role Sheet No.	Rev
STHS-	-TTW-01	-00-DR-	-C-01302	2-3
10.01.202	25 3:16 PM			

————,		-3.0%	<b>1</b>	4.0%	SITE LEVEL
DATUM R.L. 40.00					
DESIGN SURFACE (mAHD)	42.750	42.569		42.767	
EXISTING SURFACE (mAHD)	40.886	40.653	40.648	40.646	
LEVEL DIFFERENCE (m)	1.865	1.916	ω ,	2.121	i
OFFSET (m)	0.000	6.050		6.692	

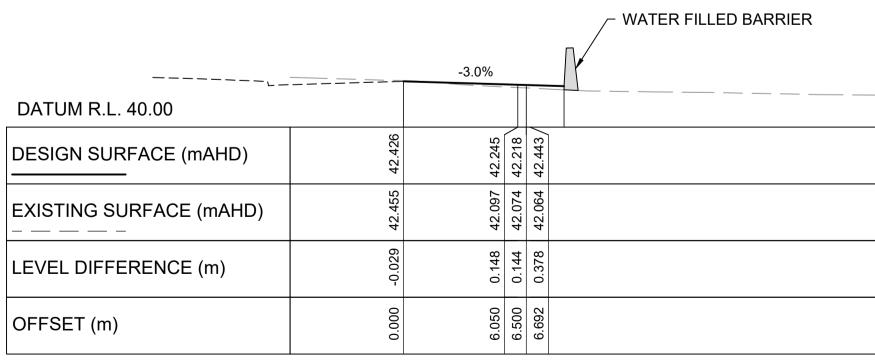
### CH 240.00

							SITE LEVEL	$\neg$
<sub></sub>		-3.0%			4.0% -	3.0%	-25.0%	
DATUM R.L. 40.00			_					
DESIGN SURFACE (mAHD)	42.550	42.369	42.342	42.567	42.739	42.715	40.345	
EXISTING SURFACE (mAHD)	41.462	41.094	41.063	41.050	40.828	40.777	40.297	
LEVEL DIFFERENCE (m)	1.088	1.275	1.279	1.517	1.911	1.938	0.048	
OFFSET (m)	0.000	6.050	6.500	6.692	11.000	11.800	21.281	

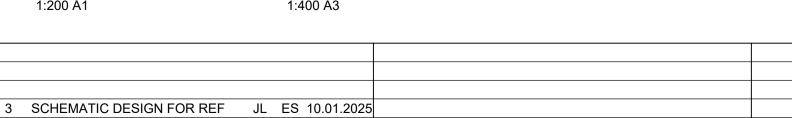
### CH 260.00

	WORKS I	BY OTHERS					
		-3.0%			4.0% -3	3.0%	-25.0%
DATUM R.L. 40.00							
DESIGN SURFACE (mAHD)	42.350	42.169	42.142	42.367	42.539	42.515	40.966
EXISTING SURFACE (mAHD)	41.679	41.446	41.427	41.419	41.208	41.178	40.966
LEVEL DIFFERENCE (m)	0.672	0.723	0.715	0.948	1.331	1.337	0.000
OFFSET (m)	0.000	6.050	005.9	6.692	11.000	11.800	17.996

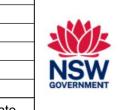
### CH 280.00



### CH 300.00



												Client:
												-18
3	SCHEMATIC DESIGN FOR REF	JL E	S 10.0	01.2025								
2	SCHEMATIC DESIGN FOR REF	JL E	S 06.1	12.2024								GOVE
1	FINAL DRAFT ISSUE FOR REF	JL E	S 21.1	11.2024								GOVE
Rev	Description	Eng Dr	raft [	Date	Rev	Description	Eng Draft	Date	Rev Description	Eng Draft	Date	



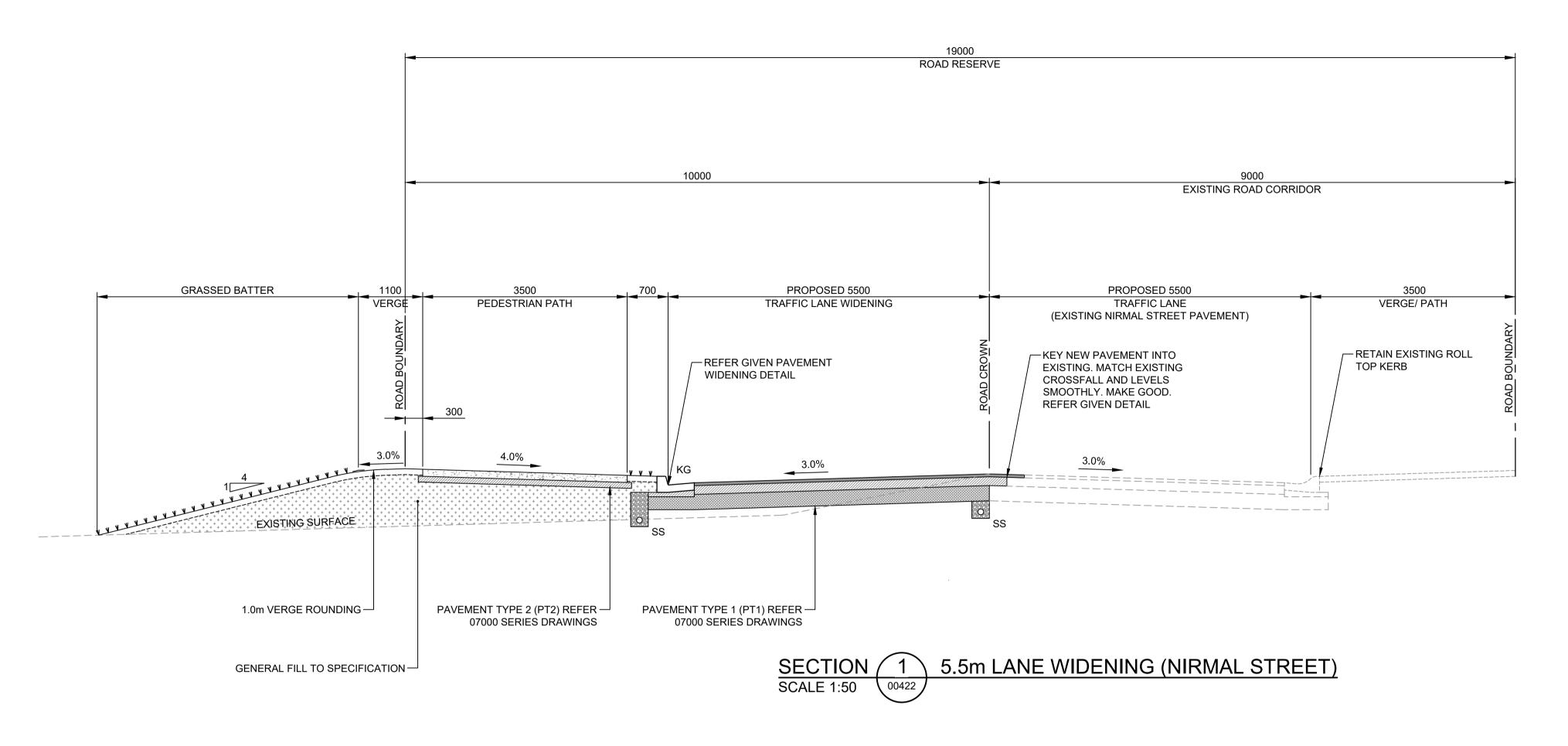
School Infrastructure NSW

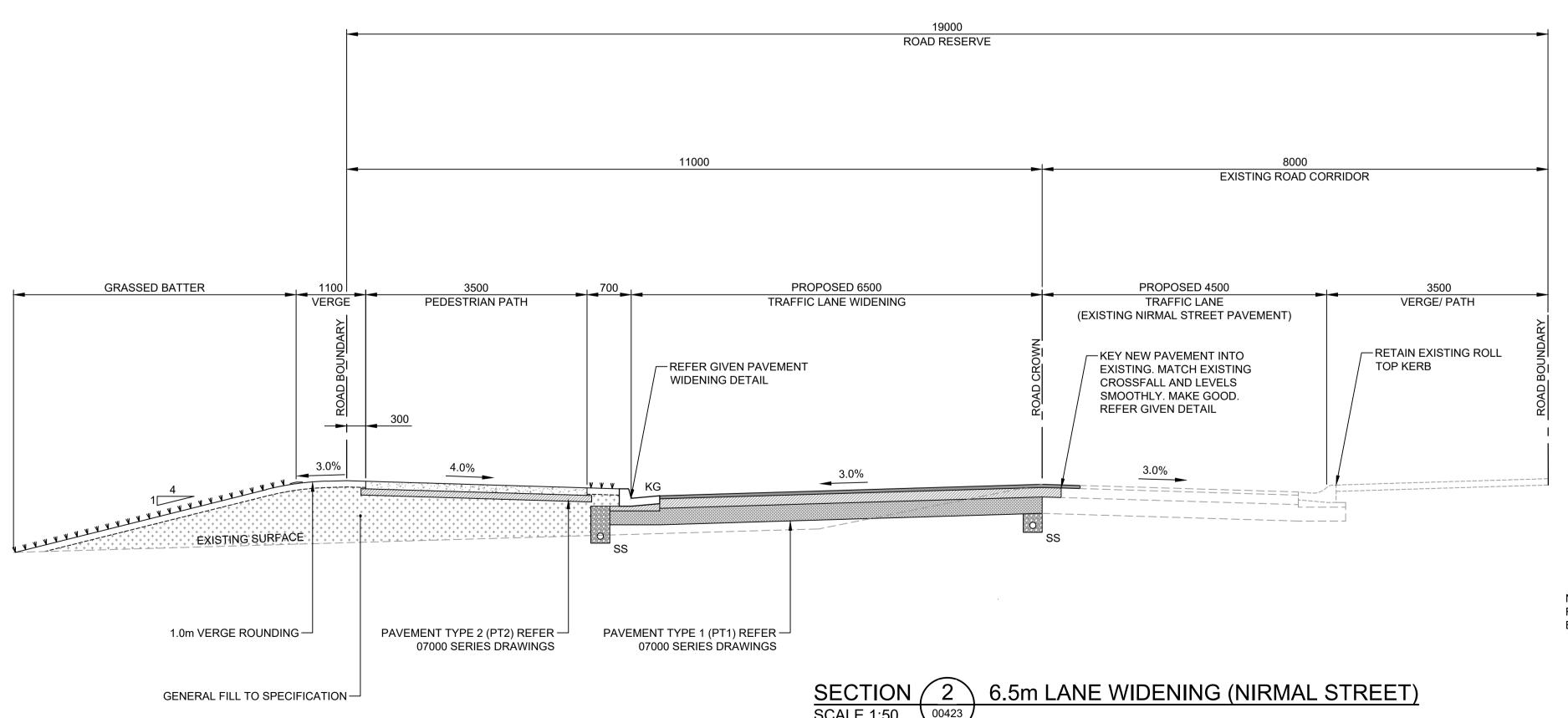


NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG

Drawing Title:
CROSS SECTIONS NIRMAL STREET SHEET2

1:200





ROAD AND FOOTPATH CROSSFALLS TO BE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S REQUIREMENTS.

SECTION	2	6.5m LANE WIDENING	(NIRMAL	STREET)
SCALE 1:50	00423			

					Client:	
3 SCHEMATIC DESIGN FOR REF JL ES 10.01.2	25					School Infrastructure NSW
2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2	24				NSW GOVERNMENT	
1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2	24				GOVERNMENT	
Rev Description Eng Draft Dat	Rev Description	Eng Draft Date	Rev Description	Eng Draft Date		



NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG

ing Title:	_
YPICAL SECTIONS	
HEET 1	

Scale at A1	Drawn	Designed		Approved	
1:50	ES	AW		CR	
Project No	Originator	Туре	Role	Sheet No.	Rev
STHS.	-TT\\\/-\\1-\\(	J-DB.	-0-	01/01	-3

51H5-11W-01-00-DR-C-01401-3 10.01.2025 3:17 PM

ROAD AND FOOTPATH CROSSFALLS TO BE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S REQUIREMENTS.



						Client:
						J.Y.
3 SCHEMATIC DESIGN FOR REF	JL ES 10.01.2025	5				
2 SCHEMATIC DESIGN FOR REF	JL ES 06.12.2024					NSV
1 FINAL DRAFT ISSUE FOR REF	JL ES 21.11.2024					GOVERNME
Rev Description	Eng Draft Date	Rev Description	Eng Draft Date	Rev Description	Eng Draft Date	

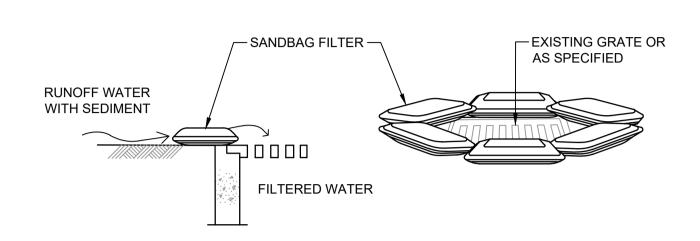




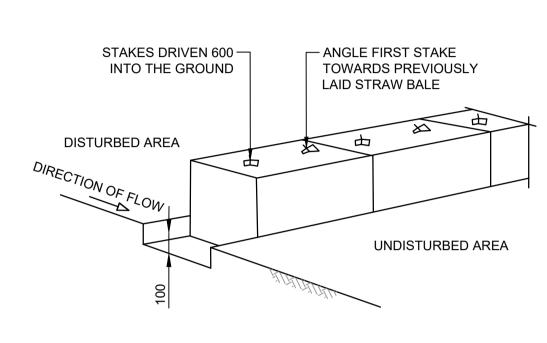
Scale at A1	Drawn	Designed	Approved	
1:50	ES	AW	CR	
Project No	Originator	Туре	Role Sheet No.	Re
STHS	-TTW-01-	00-DR-	-C-01402	<u>'-3</u>



MANY SWIMMING POOL SHOPS AND HARDWARE STORES.

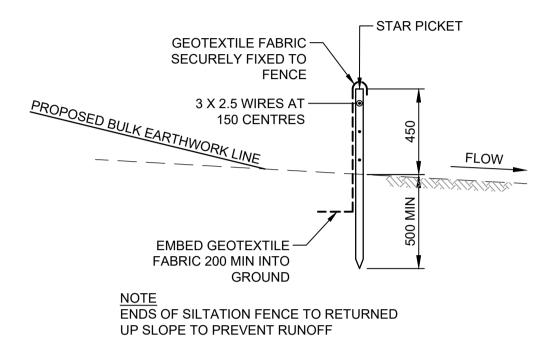


## SANDBAG KERB SEDIMENT TRAP

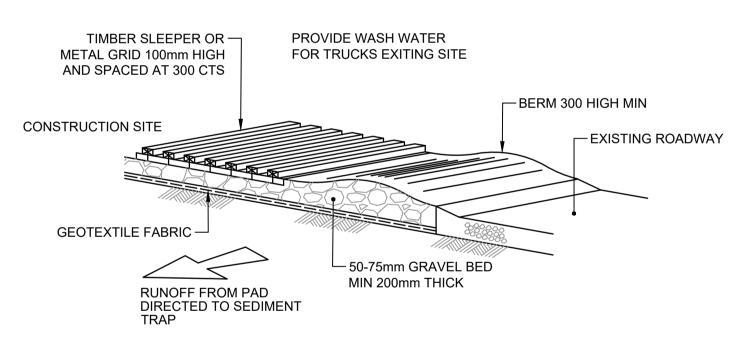


HAY BALE SEDIMENT FILTER NTS NOTE: STAKE TO BE EITHER TAR COATED

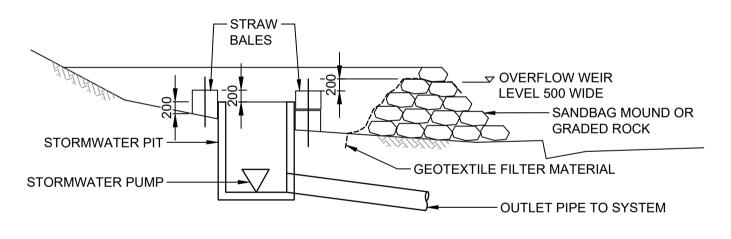
STAR OR 50 x 50 HARDWOOD



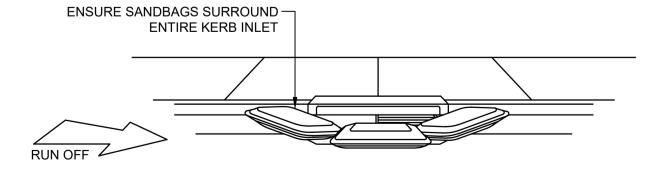
SILTATION FENCE DETAIL SCALE 1:20



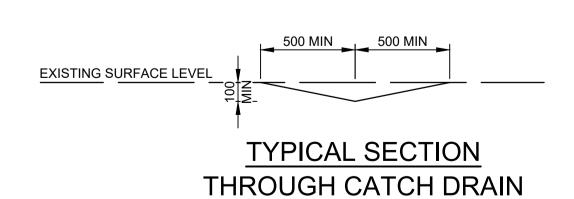
TEMPORARY CONSTRUCTION VEHICLE EXIT

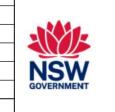


### SEDIMENTATION TRAP NTS



SANDBAG KERB INLET SEDIMENT TRAP





**School Infrastructure NSW** 

SCALE 1:20

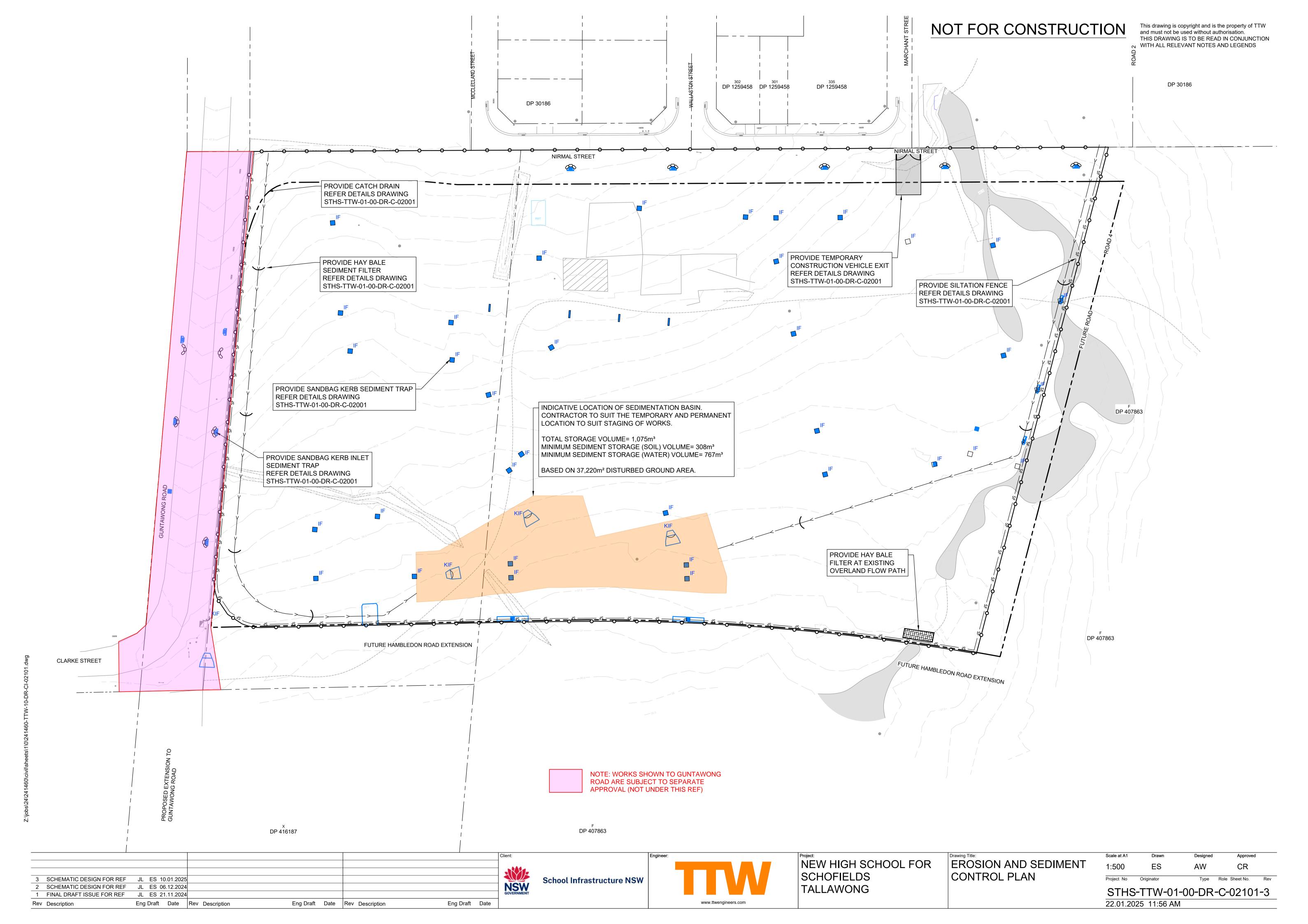


NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG

**EROSION AND SEDIMENT** CONTROL NOTES AND LEGEND

ES Project No Originator

STHS-TTW-01-00-DR-C-02001-3 10.01.2025 3:18 PM



- 2. All batters at a slope of 2 (H): 1 (V) U.N.O. 3. Excavated material may be used as structural fill provided,
- (i) it complies with the specification requirements for fill material, (ii) the placement moisture content complies with the Geotechnical Consultants requirements, and allows filling to be placed and proofrolled in accordance with the specification. Where necessary the Contractor must moisture condition the
- 4. Compact fill areas and subgrade to not less than:

Under roads and carparks:

-2.00

-1.00

0.00

1.00

2.00

3.00

4.00

Landscaped areas:

excavated material to meet these requirements.

Location	Standard d (AS 1289 5	•	y Moisture (OMC)	
Under building s	labs on ground:	98%	±2%	

 Before placing fill, proof roll exposed subgrade with a 12 tonne minimum roller to test subgrade and then remove soft spots(areas with more than 3mm movement under roller). Soft spots to be replaced with granular fill U.N.O.

98%

95%

±2%

±2%

6. Contractor shall place safety barriers around excavations in accordance with

LEVELS TABLE

No. FROM LEVEL (m) TO LEVEL (m) COLOUR

-1.00

0.00

1.00

2.00

3.00

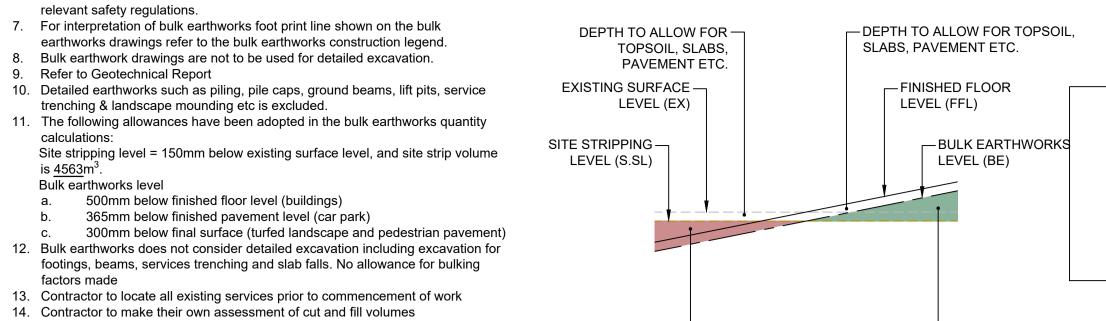
4.00

5.00

NOTE: WORKS SHOWN TO GUNTAWONG

ROAD ARE SUBJECT TO SEPARATE

APPROVAL (NOT UNDER THIS REF)



15. All bulk earthworks in accordance with AS3798-2007 Guidelines on earthworks

for commercial and residential development.

NOT FOR CONSTRUCTION

CAR PARK

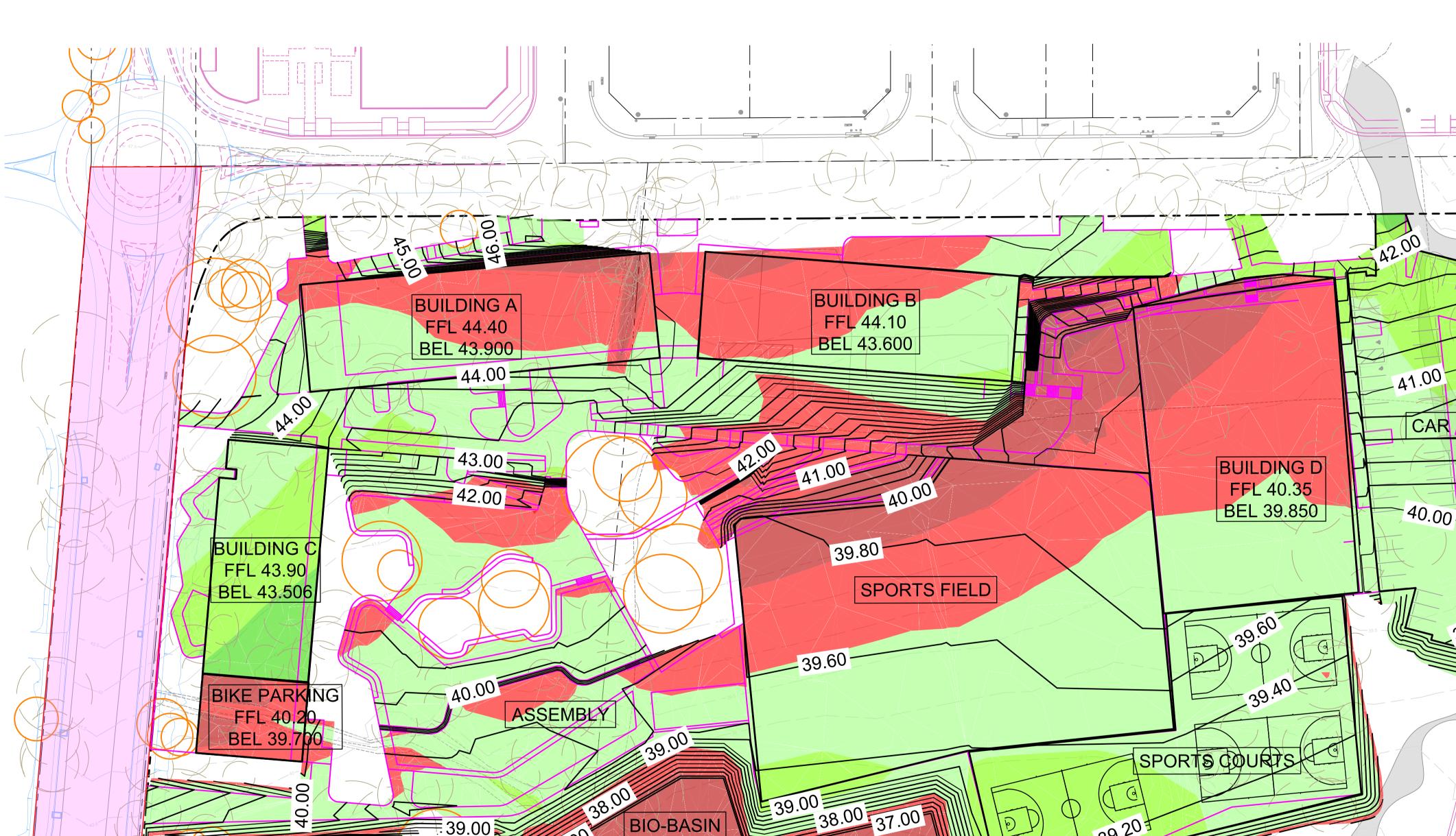
This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

# Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CUT AND FILL	1.000	1.000	30424sq.m	6723 Cu. M.	12446 Cu. M.	5723 Cu. M. <fill></fill>

### **EARTHWORKS TYPICAL SECTION**

CUT VOLUME



BIO-BASIN

39.00

**School Infrastructure NSW** 

FILL VOLUME

									Client:
4	SCHEMATIC DESIGN FOR REF	JL ES 22.01.2025							
3	SCHEMATIC DESIGN FOR REF	JL ES 10.01.2025							
2	SCHEMATIC DESIGN FOR REF	JL ES 06.12.2024							NS GOVERN
1	FINAL DRAFT ISSUE FOR REF	JL ES 21.11.2024							GOVERN
Rev	Description	Eng Draft Date	Rev Description	Eng Draft D	Date	Rev Description	Eng Draft	Date	



38.00 37.00

NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG

Drawing Title: EARTHWORKS CUT AND FILL **VOLUMES PLAN** 

STHS-TTW-01-00-DR-C-03101-4 22.01.2025 11:49 AM

#### STORMWATER DRAINAGE

1. STORMWATER DESIGN CRITERIA

(A) AVERAGE EXCEEDANCE PROBABILITY: -

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

(B) RAINFALL INTENSITIES: -

- 5% AEP = 177mm/hr

- TIME OF CONCENTRATION: 5 MINUTES - 1% AEP = 235mm/hr

(C) RAINFALL LOSSES: -

- IMPERVIOUS AREAS: IL = 1.5mm CL = 0mm/hr PERVIOUS AREAS: IL = 28mm CL = 1.2 mm/hr

2. PIPES 300 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS "4" APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.

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

APPROVAL BY THE ENGINEER

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

5. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ENGINEER. 6. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE MANUFACTURED FITTINGS WHERE PIPES ARE

LESS THAN 300 DIA. 7. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED

UPVC SEWER GRADE PIPE IS TO BE USED. 8. GRATES AND COVERS SHALL CONFORM WITH AS 3996-2006, AND AS 1428.1 FOR ACCESS

9. PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING TO BE TYPE H2 U.N.O. 10. CARE IS TO BE TAKEN WITH INVERT LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO

BE REDUCED WITHOUT APPROVAL. 11. ALL STORMWATER PIPES TO BE 150 DIA AT 1.0% MIN FALL U.N.O.

12. SUBSOIL DRAINS TO BE SLOTTED FLEXIBLE UPVC U.N.O. 13. ADOPT INVERT LEVELS FOR PIPE INSTALLATION (GRADES SHOWN ARE ONLY NOMINAL).

#### STORMWATER PIPE INFORMATION

#### PIPE INFORMATION

**UPSTREAM INVERT LEVEL** Ø000 PIPE INTERNAL DIAMETER PIPE MATERIAL AND CLASS PIPE LENGTH 0.0 m/s

HYDRAULIC FLOW RATE PIPE GRADE DOWNSTREAM INVERT LEVEL

#### **TIE INFORMATION**

L 10.0m D 1.0m Ø150

TIE LENGTH TIE DEPTH TIE DIAMETER

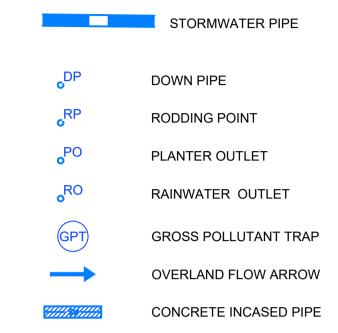
### STORMWATER STRUCTURE IDENTIFICATION

LINE NUMBER 1 - STRUCTURE NUMBER 2

#### SUBSOIL DRAINAGE

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

#### STORMWATER LEGEND



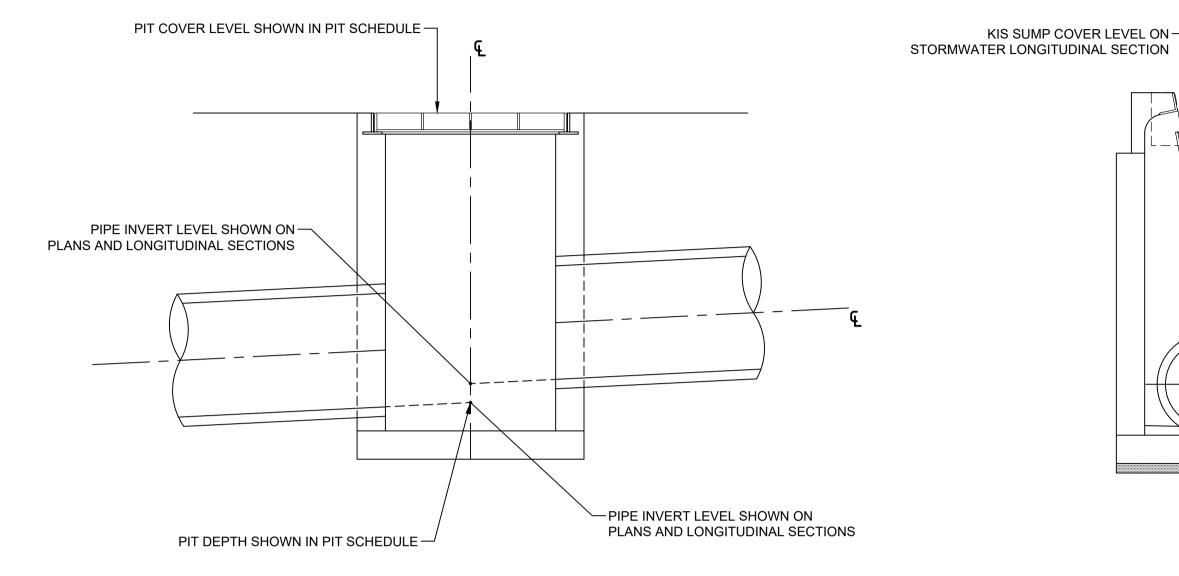
#### STORMWATER ANNOTATIONS

**SWALE DRAIN** 

PIPE INVERT LEVEL PIPE OBVERT LEVEL OL CL PIT COVER LEVEL WATER LEVEL

#### NOTE

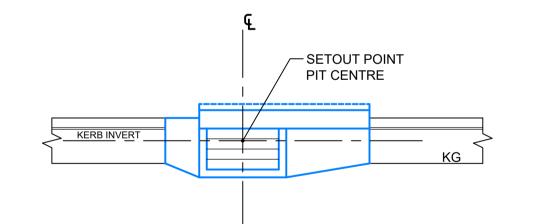
STORMWATER DRAINAGE NOTES AND LEGEND IS TO READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00002



KIS SUMP COVER LEVEL ON —

DESIGN INVERT LEVELS AT STORMWATER STRUCTURES SCALE 1:20

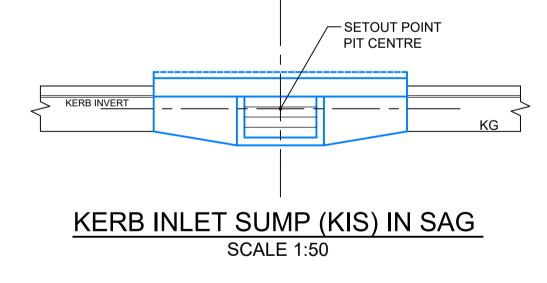
KERB INLET STRUCTURE (KIS) COVER LEVEL FOR KIS IN ROAD **SCALE 1:20** 

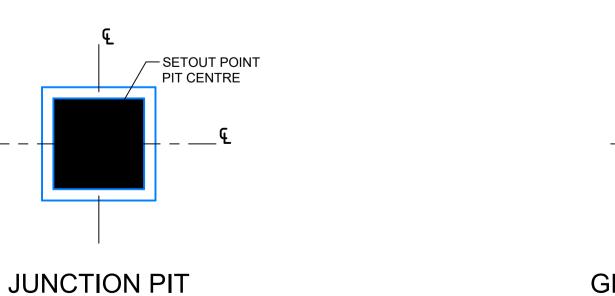


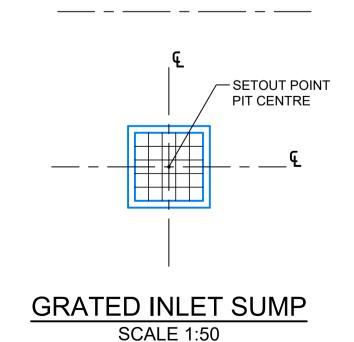
### KERB INLET SUMP (KIS) ON GRADE

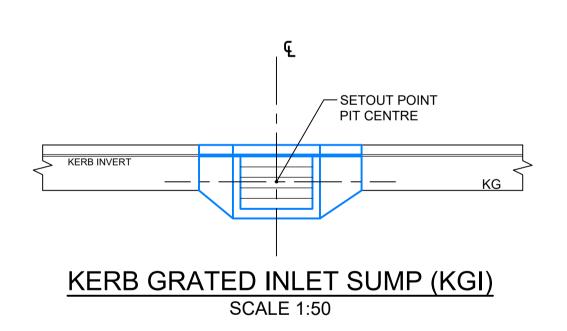
SCALE 1:50

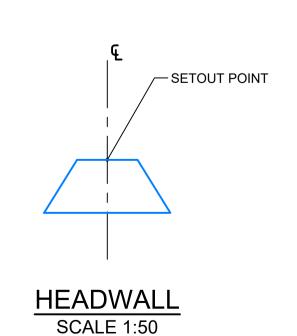
SCALE 1:50



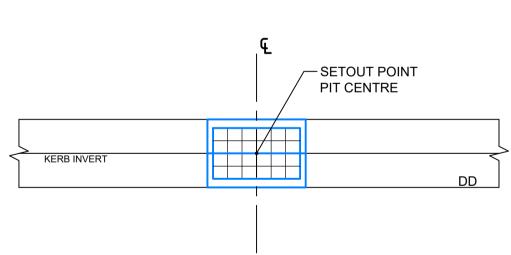








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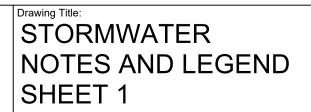


DISH DRAIN GRATED INLET SUMP (DDI) SCALE 1:50

											Client:
											-
	SCHEMATIC DESIGN FOR REF	JL	ES 1	10.01.2025							1
	SCHEMATIC DESIGN FOR REF	JL	ES (	06.12.2024							GOVE
	FINAL DRAFT ISSUE FOR REF	JL	ES 2	21.11.2024							GOVE
٧	Description	Eng	Draft	Date	Rev	Description	Eng Draft	Date	Rev Description Eng Draft I	Date	

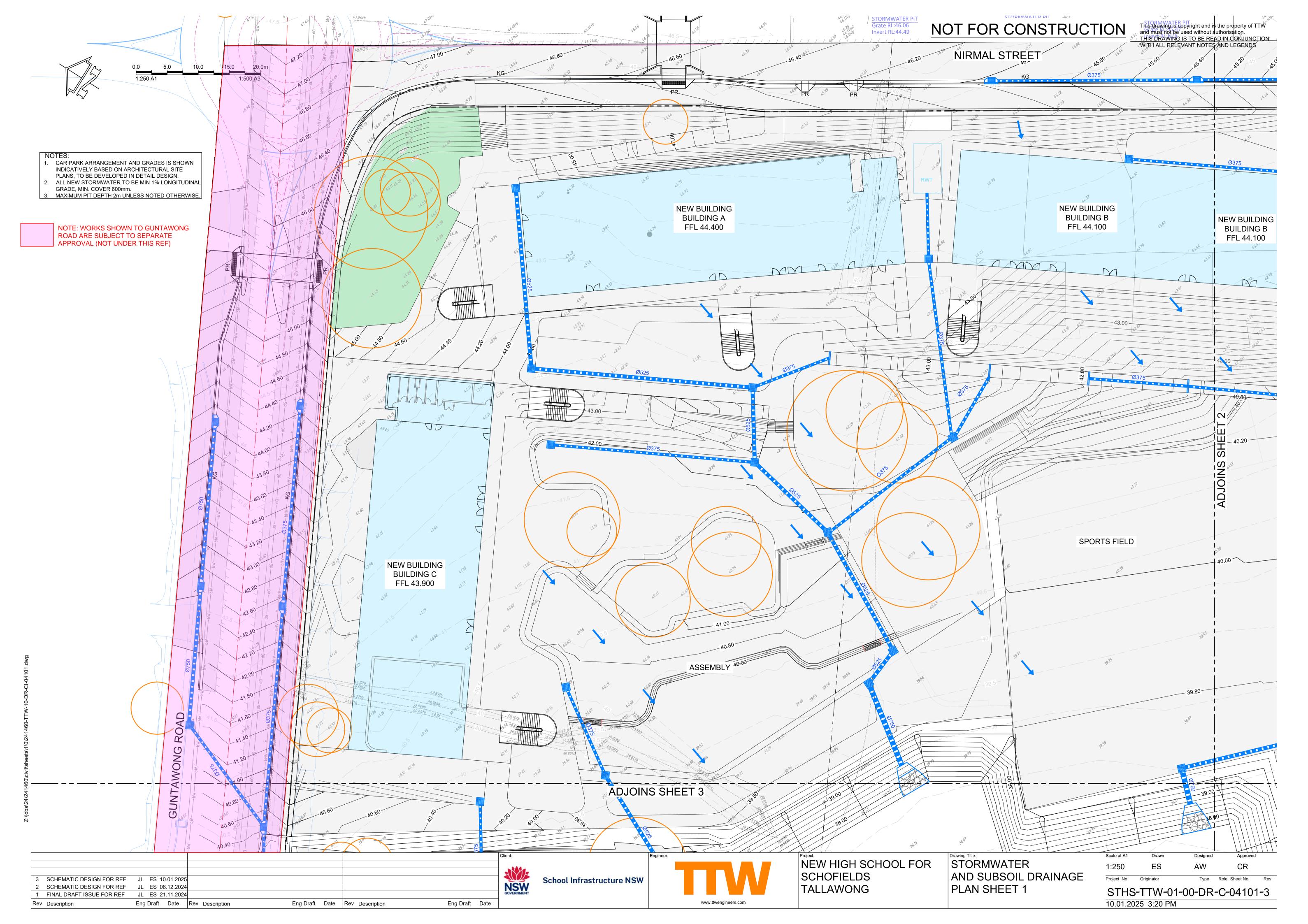


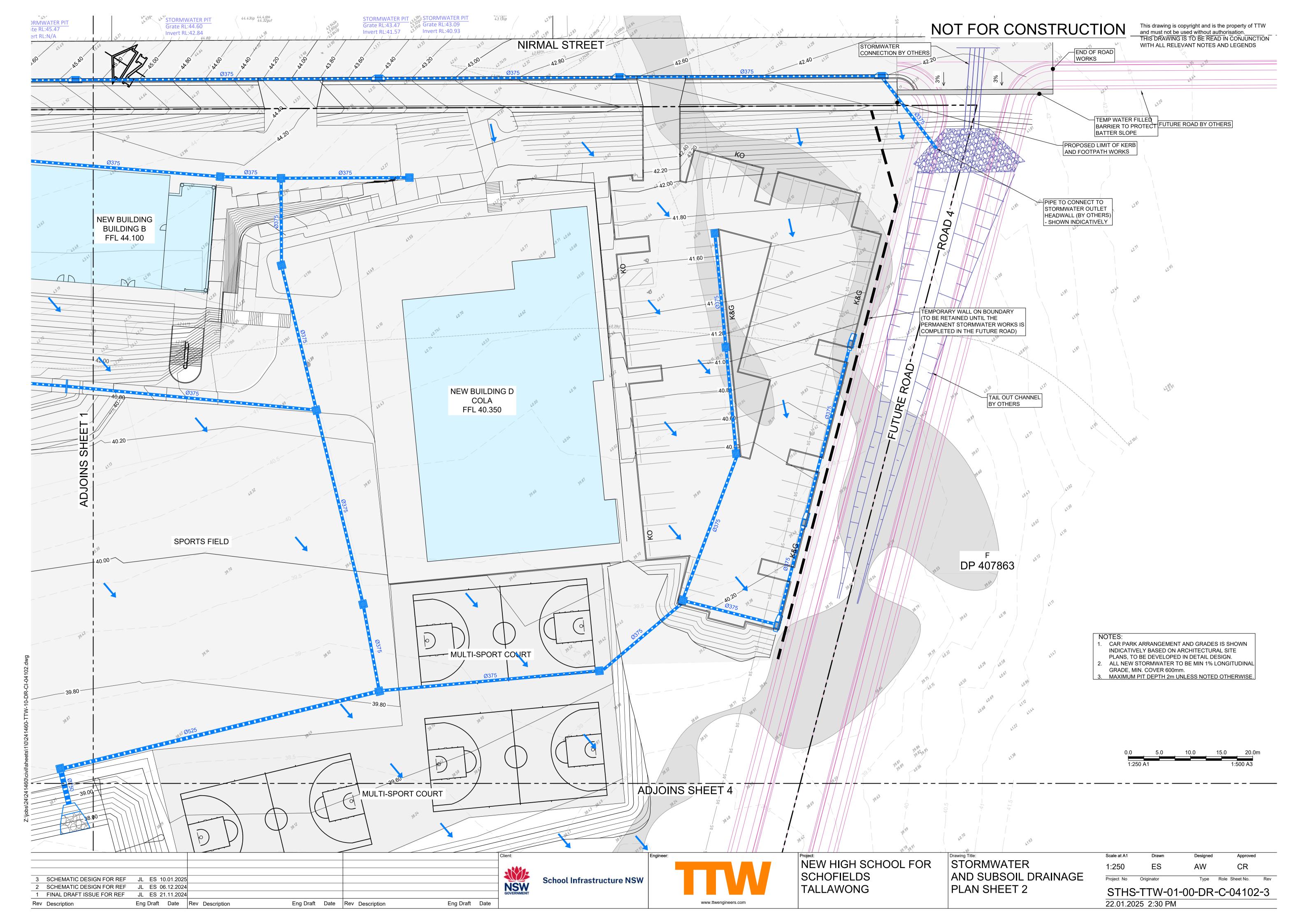


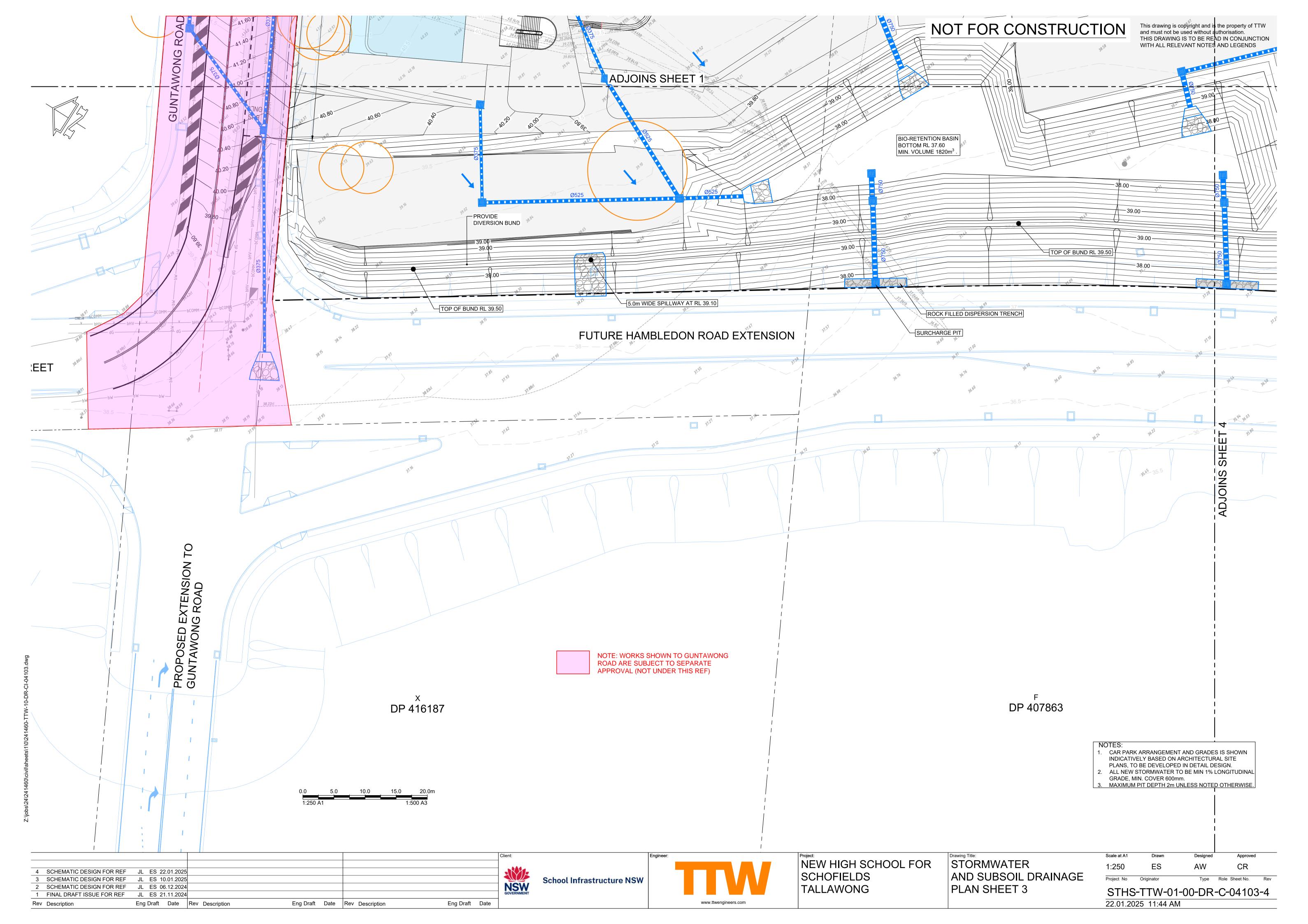


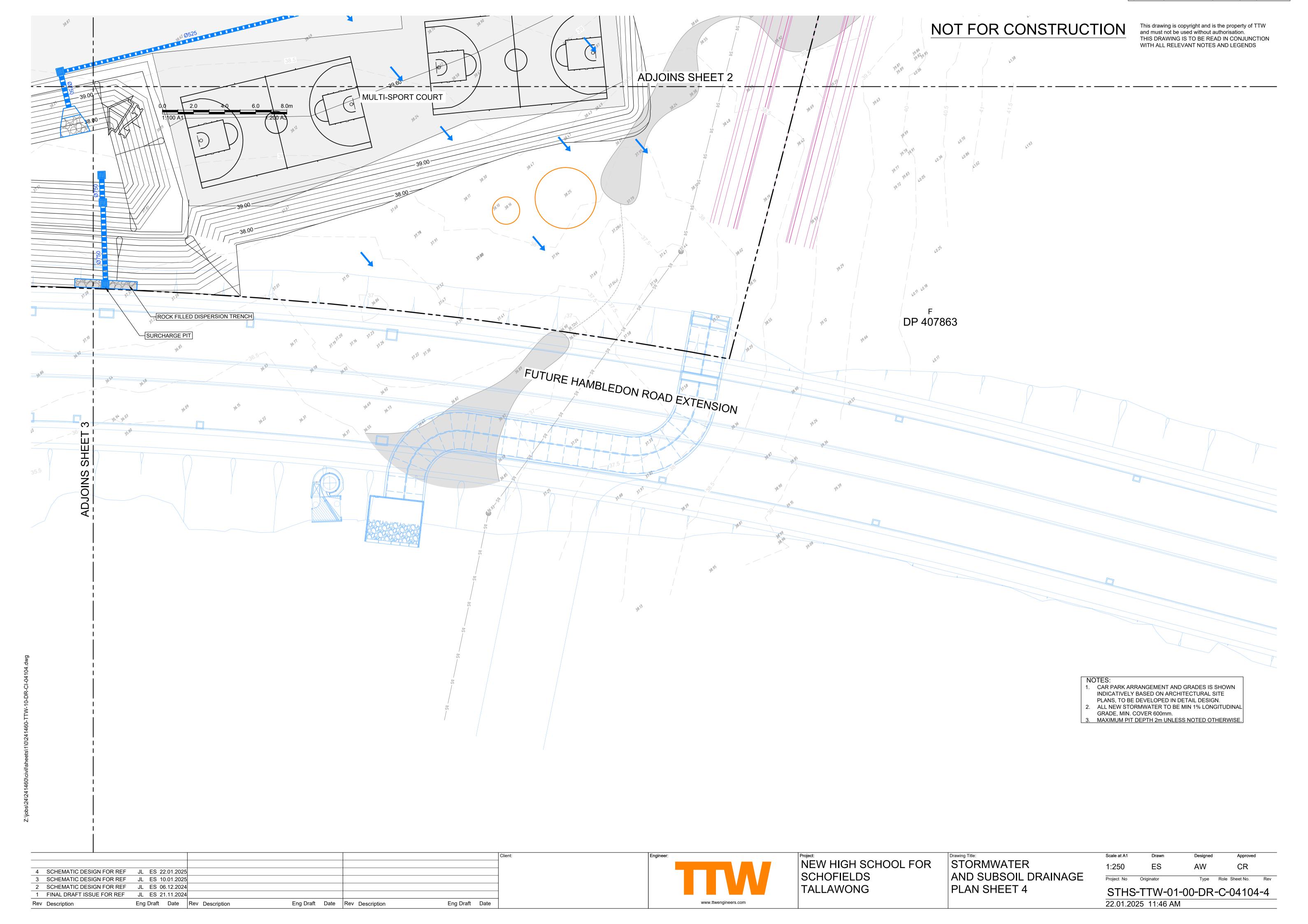
Scale at A1	Drawn	Designed	Approved	
	ES	AW	CR	
Project No	Originator	Туре	Role Sheet No.	Rev
STHS	S-TTW-01	-00-DR	-C-04001	-3

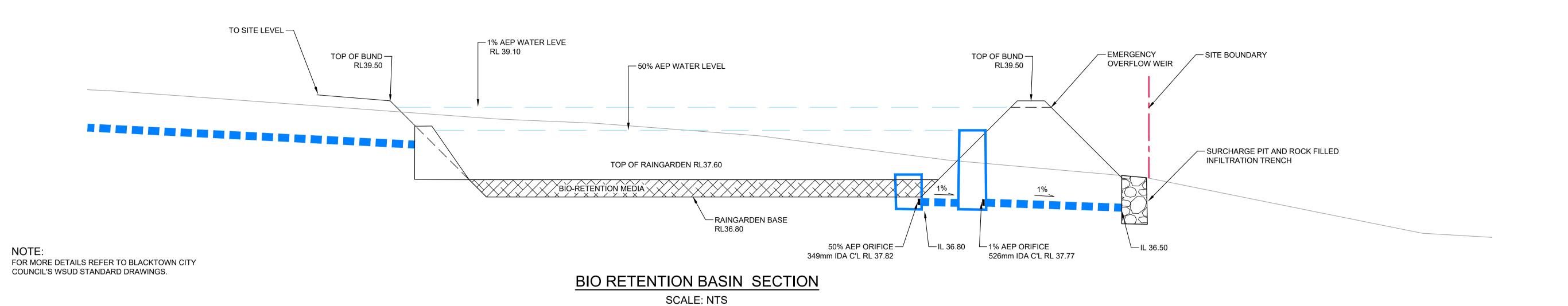
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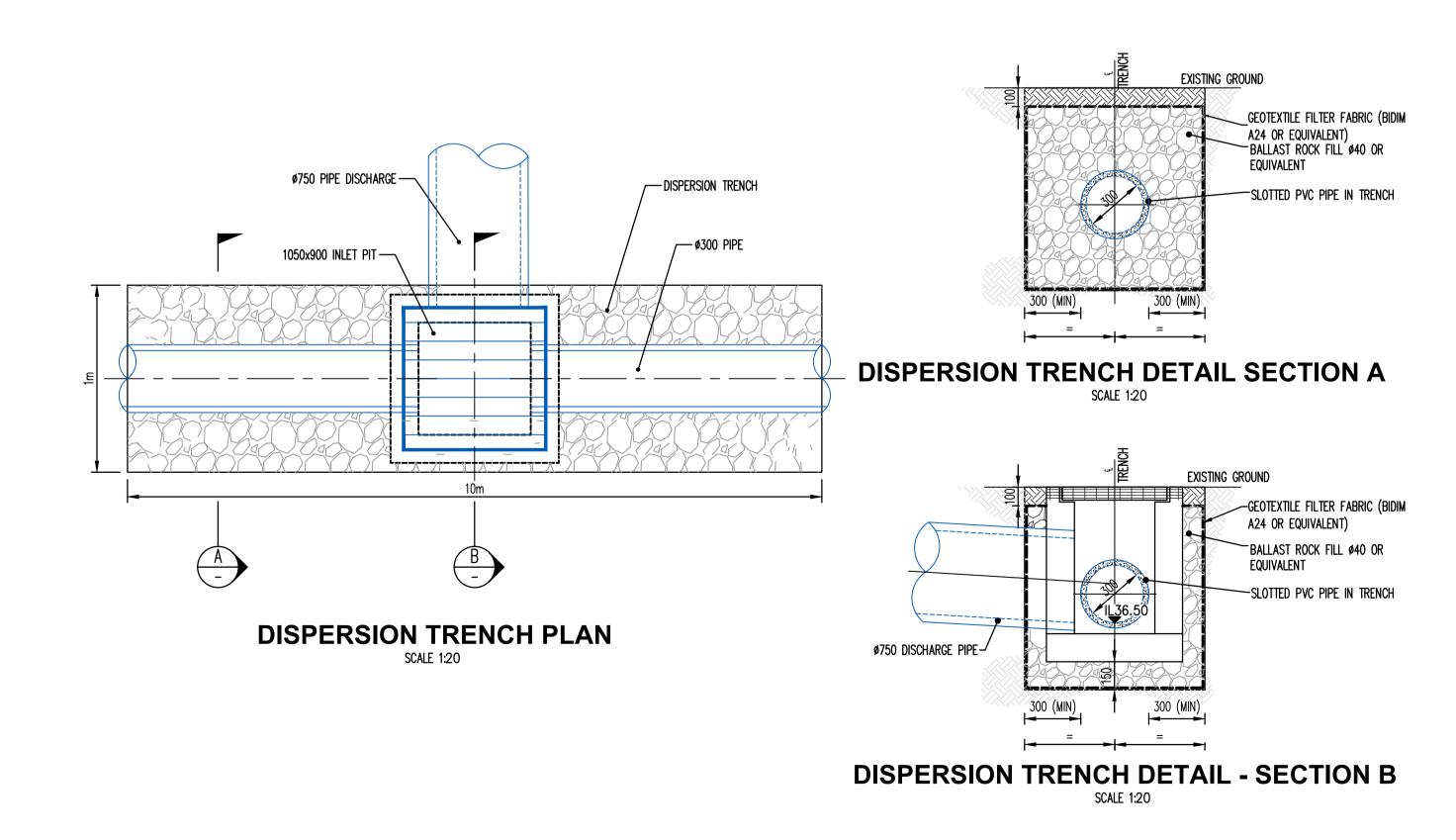




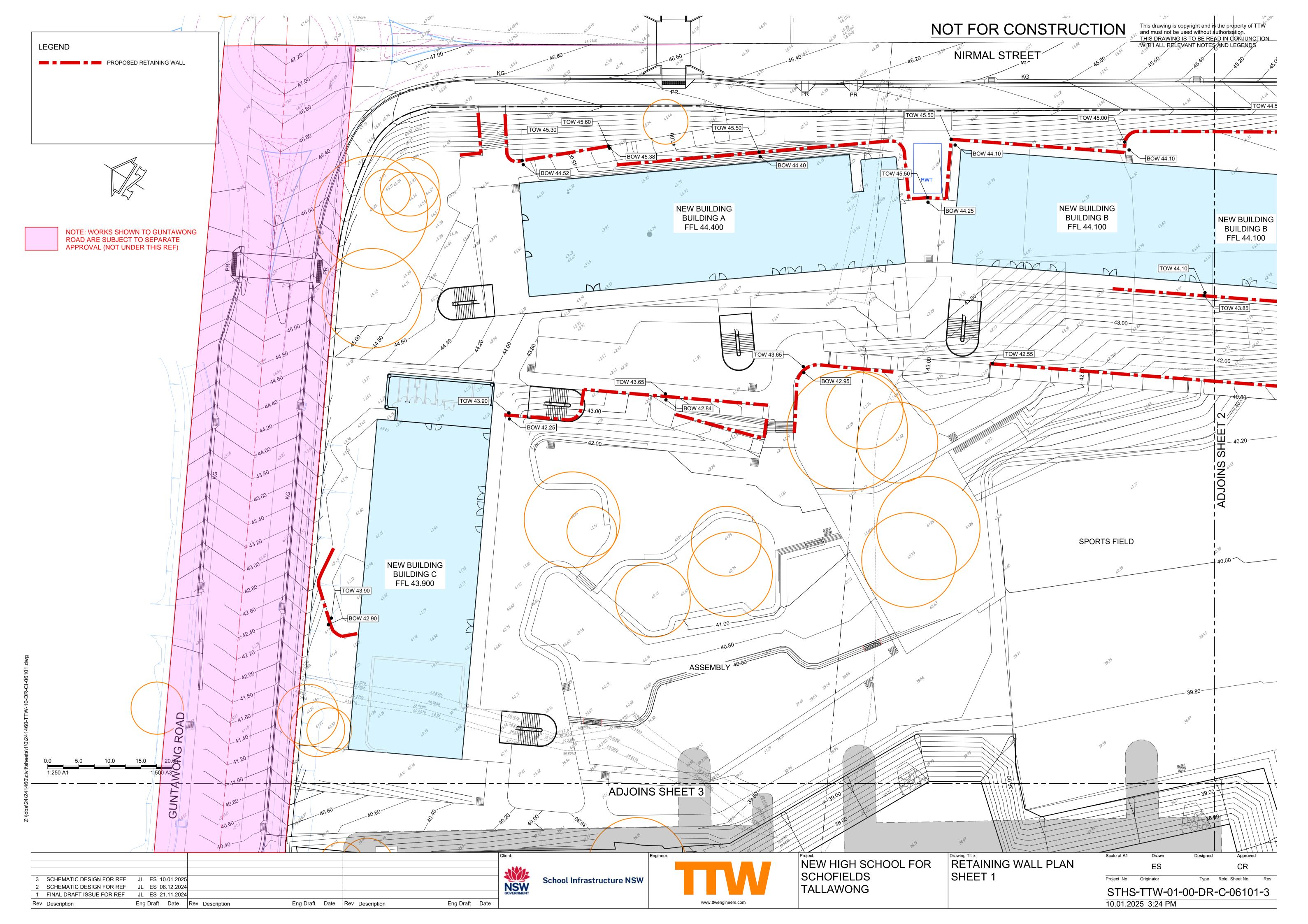


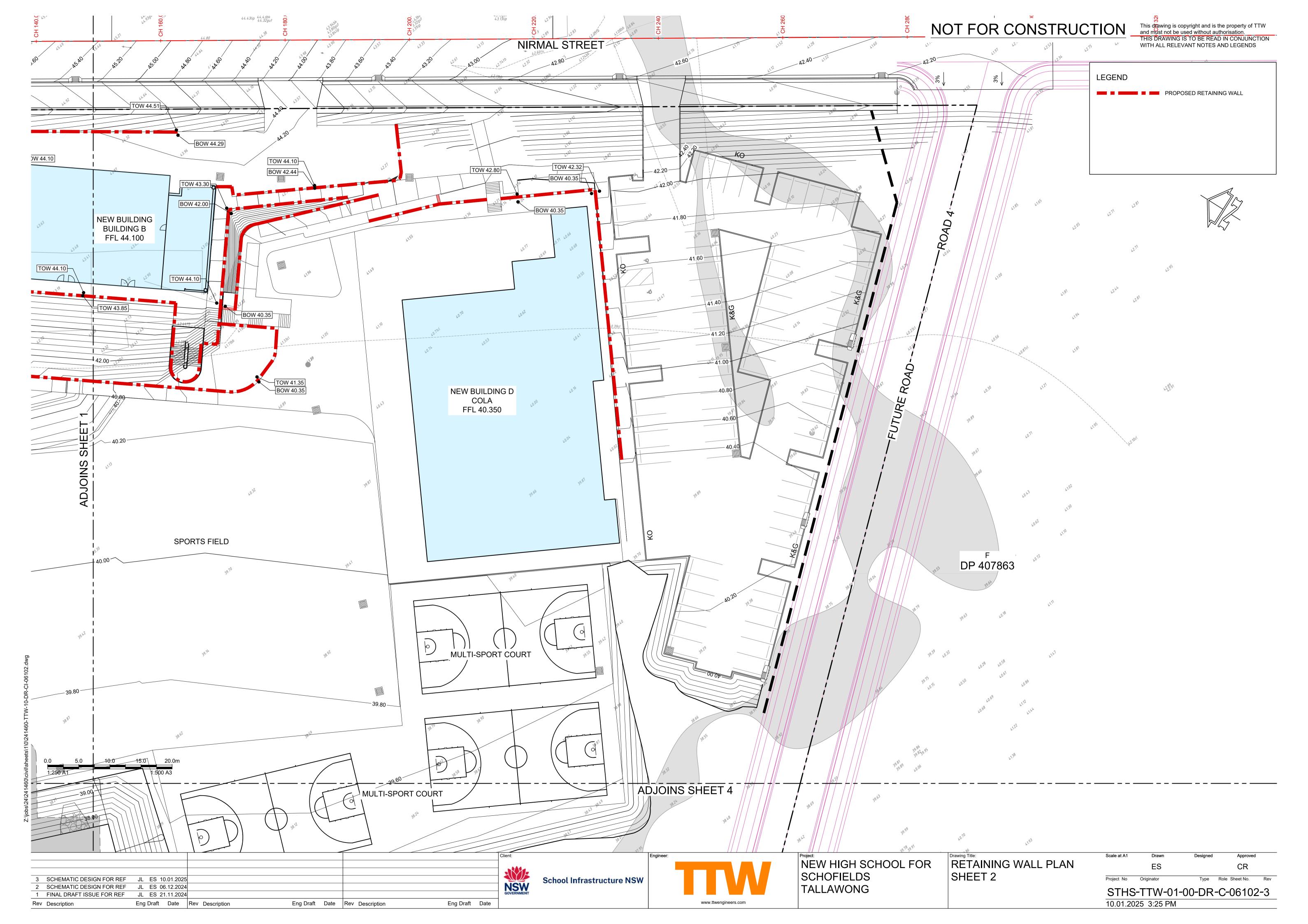




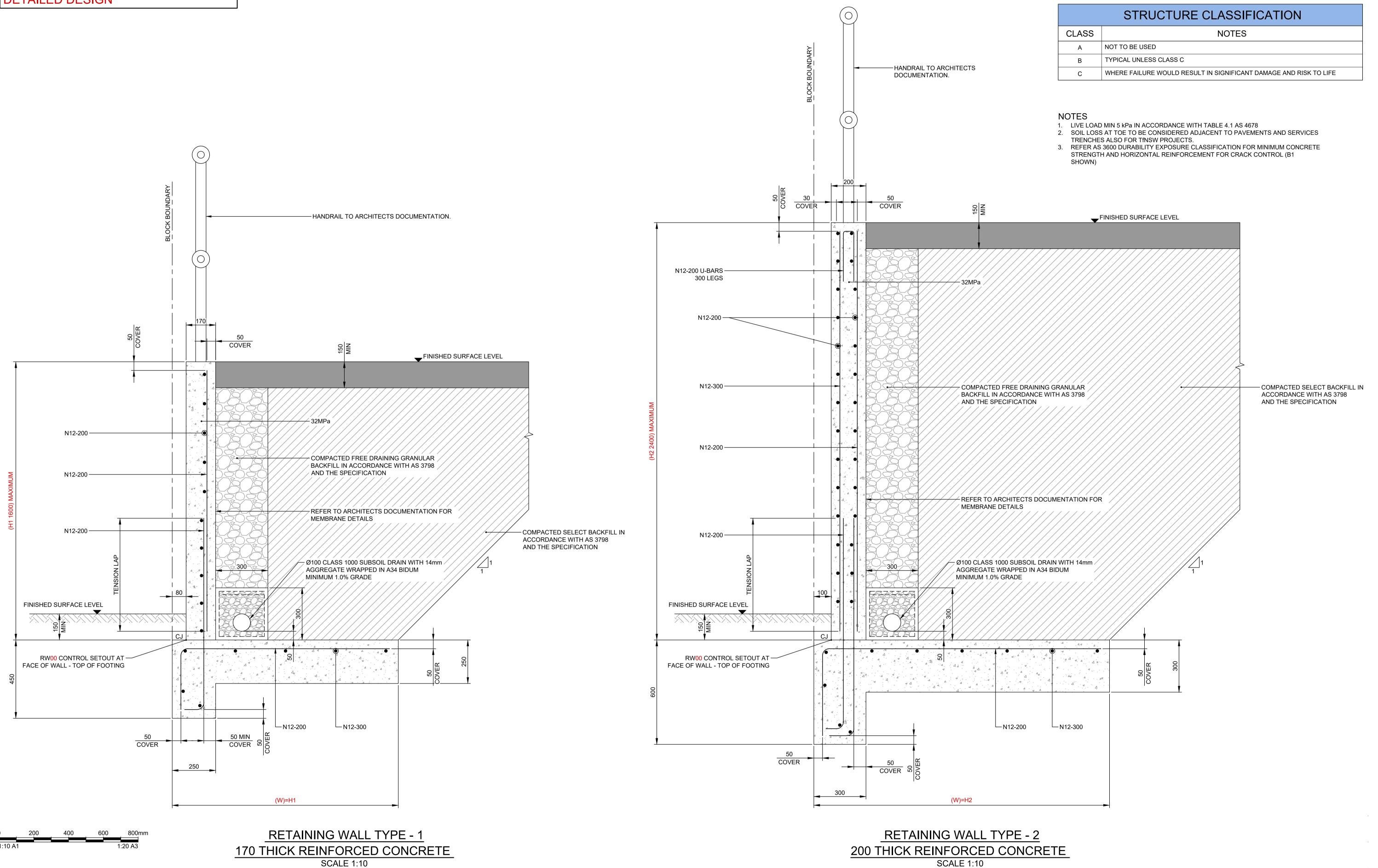


			Client:		Engineer:	Project:	Drawing Title:	Scale at A1 Drawn	Designed	Approved
4 SCHEMATIC DESIGN FO	OR REF JL ES 22.01.2025			¥1.		NEW HIGH SCHOOL FOR	STORMWATER	AS SHOWN ES	AW	CR
	OR REF JL ES 10.01.2025			School Infrastructure NSW		SCHOFIELDS	DETAILS	Project No Originator	Type R	Role Sheet No. Rev
2 SCHEMATIC DESIGN FO	OR REF JL ES 06.12.2024		NS	SW		TALLAWONG			14 00 DD 0	0 0 4 5 0 4 4
1 FINAL DRAFT ISSUE FO	OR REF JL ES 21.11.2024		GOVERN	NMENT		17 (LL/ (VVOIVO		STHS-TTW-0	71-00-DR-0	C-04501-4
Rev Description	Eng Draft Date Rev Description	Eng Draft Date Rev Description	Eng Draft Date		www.ttwengineers.com			22.01.2025 11:42	4M	





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3 SCHEMATIC DESIGN FOR REF JL ES 10.01.2025
2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024
1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024

Rev Description Eng Draft Date Rev Description Eng Draft Date





NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG RETAINING WALLS
DETAILS

Scale at A1 Drawn Designed Approved

ES AW CR

Project No Originator Type Role Sheet No. Rev

STHS-TTW-01-00-DR-C-06501-3 10.01.2025 3:25 PM

#### CONCRETE

1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH fc IN

ACCORDANCE WITH AS 1379.

LOCATION	f'c MPa (28 DAYS)	SPECIFIED SLUMP	NOMINAL AGG. SIZE
KERBS	S20	80	20
RETAINING WALL FOOTINGS	S40	80	20

- 3. USE TYPE 'GP' CEMENT, UNLESS OTHERWISE SPECIFIED.
- ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS 1379.
- CONSOLIDATE BY MECHANICAL VIBRATION. CURE ALL CONCRETE SURFACES AS DIRECTED IN THE
- FOR ALL FALLS IN SLAB, DRIP GROOVES, REGLETS, CHAMFERS ETC. REFER TO ARCHITECTS DRAWINGS AND SPECIFICATIONS.
- UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE
- SUBMITTED TO ENGINEER FOR REVIEW. NO HOLES OR CHASES SHALL BE MADE IN THE SLAB WITHOUT THE APPROVAL OF THE ENGINEER
- CONDUITS AND PIPES ARE TO BE FIXED TO THE UNDERSIDE OF THE TOP REINFORCEMENT LAYER.
- 10. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL
- 11. ALL SLABS CAST ON GROUND REQUIRE SAND BLINDING WITH A CONCRETE UNDERLAY

#### **CONCRETE FINISHING**

- 1. ALL EXPOSED CONCRETE PAVEMENTS ARE TO BE BROOMED FINISHED.
- 2. ALL EDGES OF THE CONCRETE PAVEMENT INCLUDING KEYED AND DOWELLED JOINTS ARE TO BE FINISHED WITH AN EDGING TOOL.
- 3. CONCRETE PAVEMENTS WITH GRADES GREATER THAN 10 % SHALL BE HEAVILY BROOMED
- 4. CARBORUNDUM TO BE ADDED TO ALL STAIR TREADS AND RAMPED CROSSINGS U.N.O.

#### **FORMWORK**

1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, FALSEWORK AND BACKPROPPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROPOSED METHOD OF INSTALLATION AND REMOVAL OF FORMWORK IS TO BE SUBMITTED TO THE SUPERINTENDENT FOR COMMENT PRIOR TO WORK BEING CARRIED OUT.

#### PAVEMENT LEGEND

CONCRETE BLEACHERS

INTERNAL PEDESTRIAN PAVING 120mm THICK CONCRETE SLAB (25MPa) WITH SL72 MESH (40 COVER) 150mm THICK COMPACTED FINE CRUSHED ROCK (DGB20) REFER TO LANDSCAPE ARCHITECTS DOCUMENTATION FOR COLOUR TREATMENT

CARPARK AND DELIVERY ZONE

40mm COMPACTED THICKNESS AC14 WEARING COURSE ON 150mm COMPACTED THICKNESS DGB20 CLASS 1 BASE TO 98% MMDD AT ±2% OMC ON 175mm COMPACTED THICKNESS DGS20 SUBBASE TO 98% MMDD AT ±2% OMC ON SUBGRADE MIN. CBR 4% COMPACTED TO 98% SMDD AT ±2% OMC

PT4

MULTI SPORTS COURTS

TO LANDSCAPE ARCHITECT'S DOCUMENTATION

SPORTS FIELD

TO LANDSCAPE ARCHITECT'S DOCUMENTATION

PT6

INTERNAL PEDESTRIAN PAVING 120mm THICK CONCRETE SLAB (25MPa) WITH SL72 MESH (40 COVER) 150mm THICK COMPACTED FINE CRUSHED ROCK (DGB20) REFER TO LANDSCAPE ARCHITECTS DOCUMENTATION FOR COLOUR TREATMENT

PUBLIC DOMAIN REINFORCED CONCRETE DRIVEWAY 150 THICK S32 CONCRETE

150 THICK DGB20 COMPACTED TO 98% MMDD

PT20

PUBLIC DOMAIN ROAD MILL AND RESHEET 2x25mm THICK WEARING COURSE AC10 PRIME AC00

PT21

PUBLIC DOMAIN ROAD PAVEMENT **REFER DRAWING 07501** 

**EXISTING PAVEMENT** 

PT22

PUBLIC DOMAIN FOOTPATH 125mm THICK CONCRETE SLAB (25MPa) WITH SL72 MESH (40 COVER) 150mm THICK COMPACTED FINE CRUSHED ROCK (DGB20)

LANDSCAPING REFER TO LANDSCAPE ARCHITECT'S DOCUMENTATION

#### NOTES:

- 1. PAVEMENT BUILDUPS ARE INDICATIVE AND TO BE DEVELOPED IN DETAILED DESIGN.
- 2. ADOPTED DESIGN PARAMETERS:
- DESIGN TRAFFIC 5x10<sup>5</sup> ESA, SUBGRADE 4% CBR MIN.

#### CONCRETE REINFORCEMENT

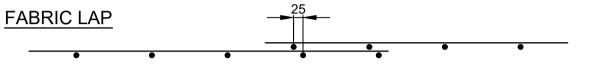
1. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWINGS THIS IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES OF THE REINFORCEMENT.

SYMBOL	TYPE	GRADE	
N	HOT ROLLED RIBBED BAR	DN500N	
R	PLAIN ROUND BAR	R250N	
SL	SQUARE MESH	500L	
RL	RECTANGULAR MESH	500L	

2. PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS OTHERWISE NOTED ON DRAWINGS.

LOCATION	COVER (MM)
FOOTINGS	50
WALLS	30

- 3. COVER TO REINFORCEMENT ENDS TO BE 50 mm U.N.O.
- 4. PROVIDE N12-450 SUPPORT BARS TO TOP REINFORCEMENT AS REQUIRED, LAP 500 U.N.O.
- 5. MAINTAIN COVER TO ALL PIPES, CONDUITS, REGLETS, DRIP GROOVES ETC
- 6. ALL COGS TO BE STANDARD COGS UNLESS NOTED OTHERWISE
- 7. FABRIC END AND SIDE LAPS ARE TO BE PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS TO ACHIEVE A FULL TENSILE LAP. FABRIC SHALL BE LAID SO THAT THERE IS A MAXIMUM OF 3 LAYERS AT ANY LOCATION.



8. LAPS IN REINFORCEMENT SHALL BE MADE ONLY WHERE SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED. LAP LENGTHS AS PER TABLE BELOW.

	TENSION LAPS	
BAR SIZE	TOP BARS IN BANDS AND BEAMS	ALL OTHER BARS
N12	570	480
N16	800	700
N20	1150	950
N24	1500	1250
N28	1850	1500
N32	2250	1800
N36	2700	2100

COMPRESSION LAPS						
BAR SIZE						
N16	640					
N20	800					
N24	960					
N28	1120					
N32	1280					
N36	1440					

- **ASSUMPTIONS:**
- 1. TOP BARS IN BANDS AND BEAMS:
- MORE THAN 300mm OF CONCRETE BELOW THE BAR.
- 2. MINIMUM COVER OF 25mm AND MINIMUM STIRRUP SIZE OF N12 GIVING Cd=37mm; THEREFORE MINIMUM CLEAR SPACING BETWEEN BARS = 2 X Cd = 74mm. MINIMUM COVER IS BASED ON THE NEW A2 EXPOSURE CLASSIFICATION FOR INTERIOR, NON-RESIDENTIAL WHICH REQUIRES 25mm COVER FOR 32Mpa CONCRETE,
- 3. f'c = 32Mpa
- ALL OTHER BARS:
- 1. LESS THAN 300mm OF CONCRETE BELOW THE BAR.
- 2. MINIMUM COVER OF 25mm GIVING Cd = 25mm; THEREFORE MINIMUM CLEAR SPACING BETWEEN BARS =  $2 \times Cd = 50 \text{mm}$ .

School Infrastructure NSW

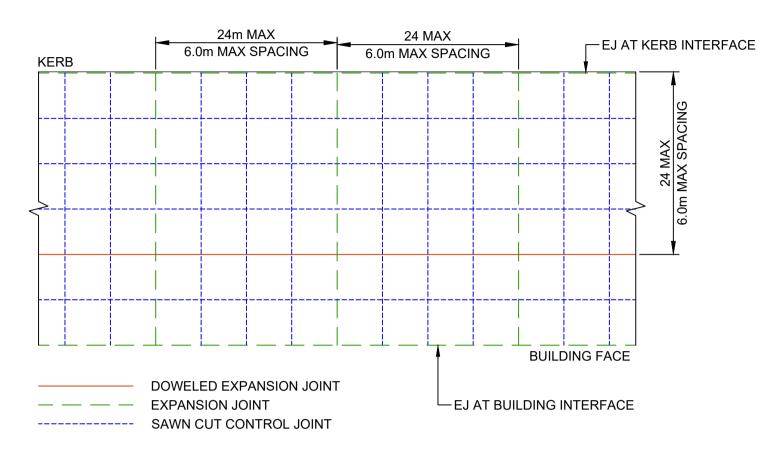
- 3. f'c = 32Mpa.
- COLUMNS:
- 1. COVER TO COLUMNS = 40mm (30+10)k7 = 1.25
- 2. COVERS FOR FIRE RATING ARE TO BE DESIGNED BY THE ENGINEER.

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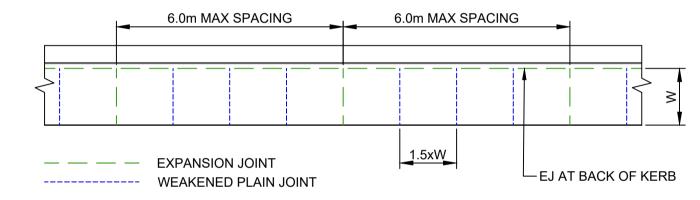
#### VEHICULAR PAVEMENT JOINTING (03000 SERIES DRAWINGS)

- 1. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
- 2. DOWEL BARS ARE TO BE IN ACCORDANCE WITH GIVEN DETAIL. REFER 03000 SERIES DRAWINGS. 3. DOWELED EXPANSION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 24.0M CENTRES.
- 4. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6.0M CENTRES OR 1.5 X THE
- SPACING OF PERPENDICULAR SAWN JOINTS. 5. PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS BETWEEN BUILDINGS/STRUCTURES AND ALL
- CONCRETE OR UNIT PAVERS. 6. THE TIMING OF THE SAW CUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE
- CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED. REFER TO THE SPECIFICATION FOR WEATHER CONDITIONS AND
- TEMPERATURES REQUIRED. 7. VEHICULAR PAVEMENT JOINTING AS FOLLOWS.



#### PEDESTRIAN PATH JOINTING (03000 SERIES DRAWINGS)

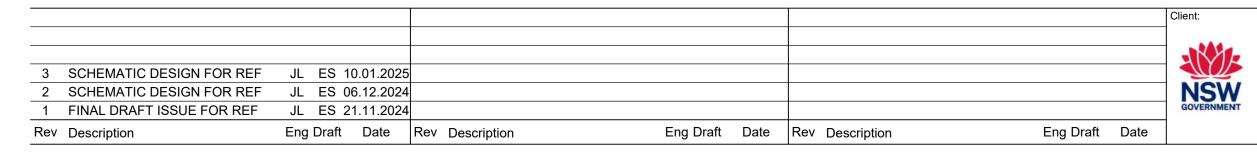
- 1. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND
- ELSEWHERE AT MAX 6.0M CENTRES. 2. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX 1.5 X WIDTH OF THE PAVEMENT.
- 3. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
- 4. ALL PEDESTRIAN FOOTPATH JOINTING AS FOLLOWS (UNO).



### **KERBING**

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSINGS AND EDGES.

- 1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
- 2. EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
- 3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN 4. BROOMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH
- DRAINS TO BE STEEL FLOAT FINISHED. 5. IN THE REPLACEMENT OF KERBS - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESSES. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB WITH A 100mm DIA HOLE. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.



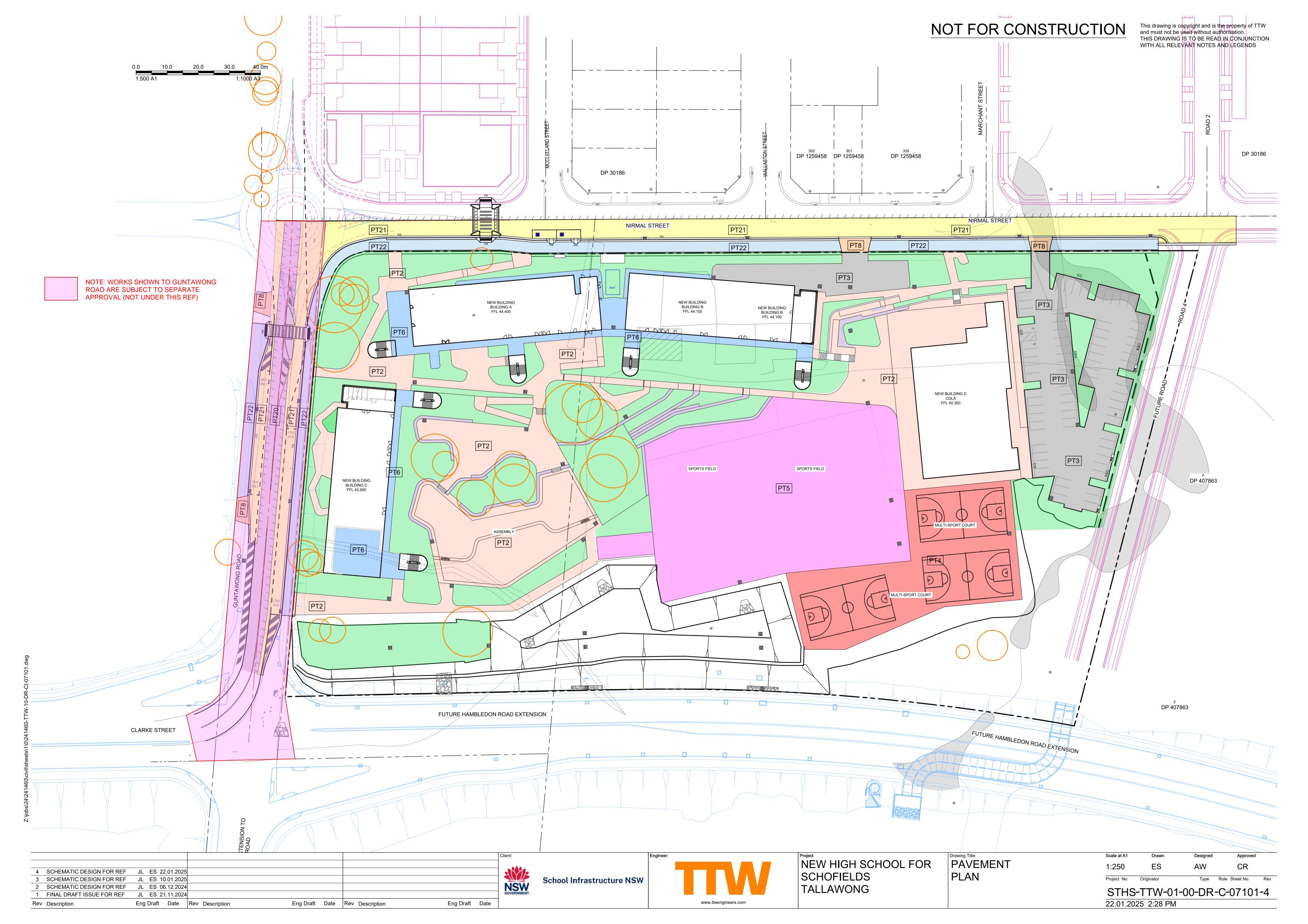




PAVEMENT NOTES AND LEGEND

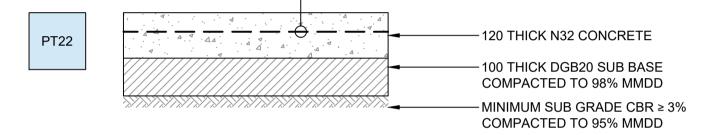
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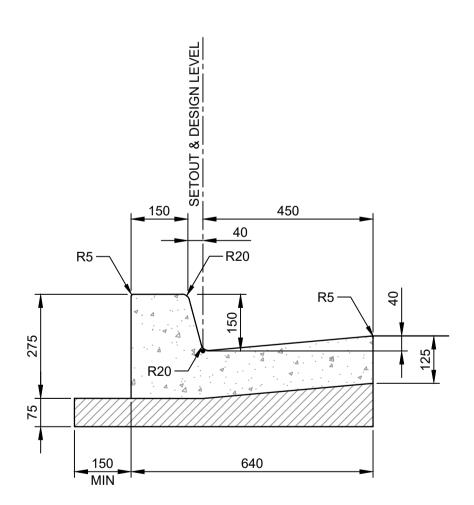


PAVEMENT TYPE 21 (PT21) EXTERNAL ROAD PAVEMENT SCALE 1:10

\_\_ SL72 (40 COVER)

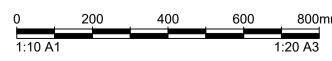


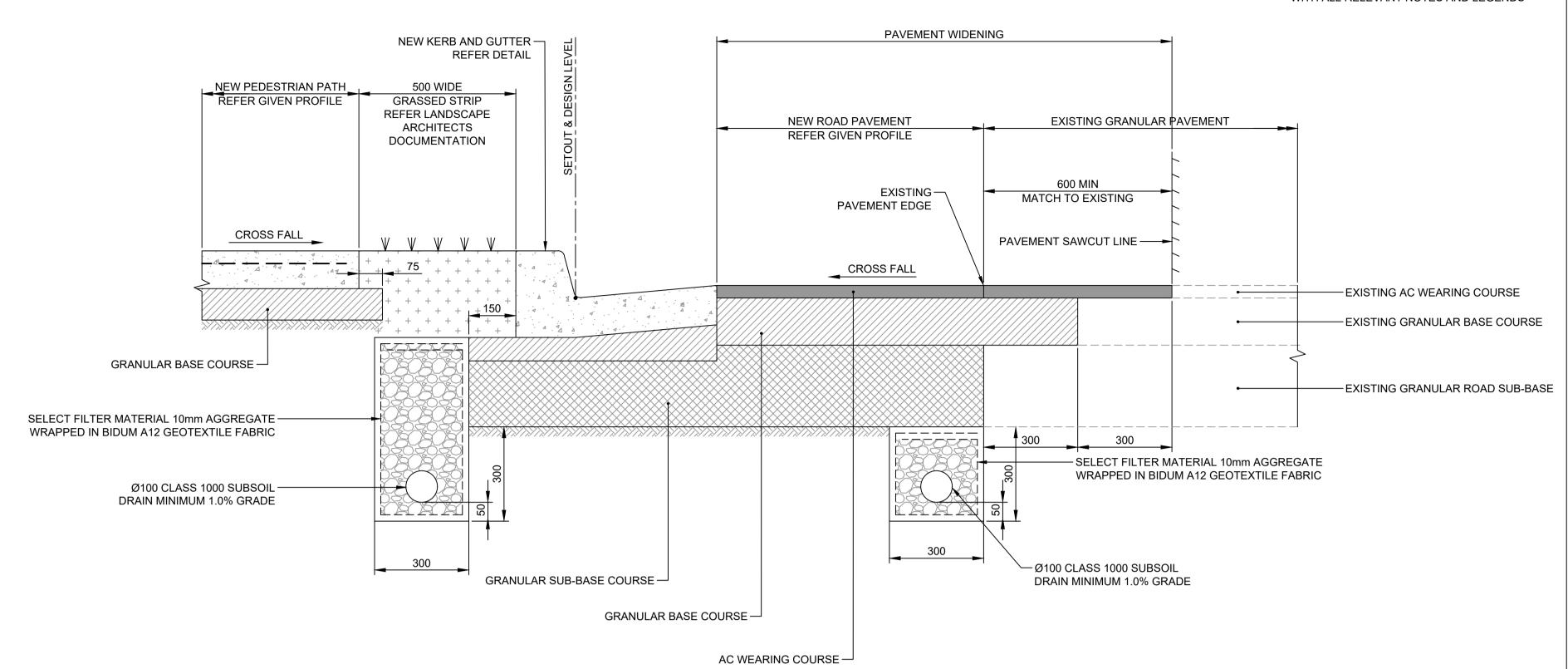
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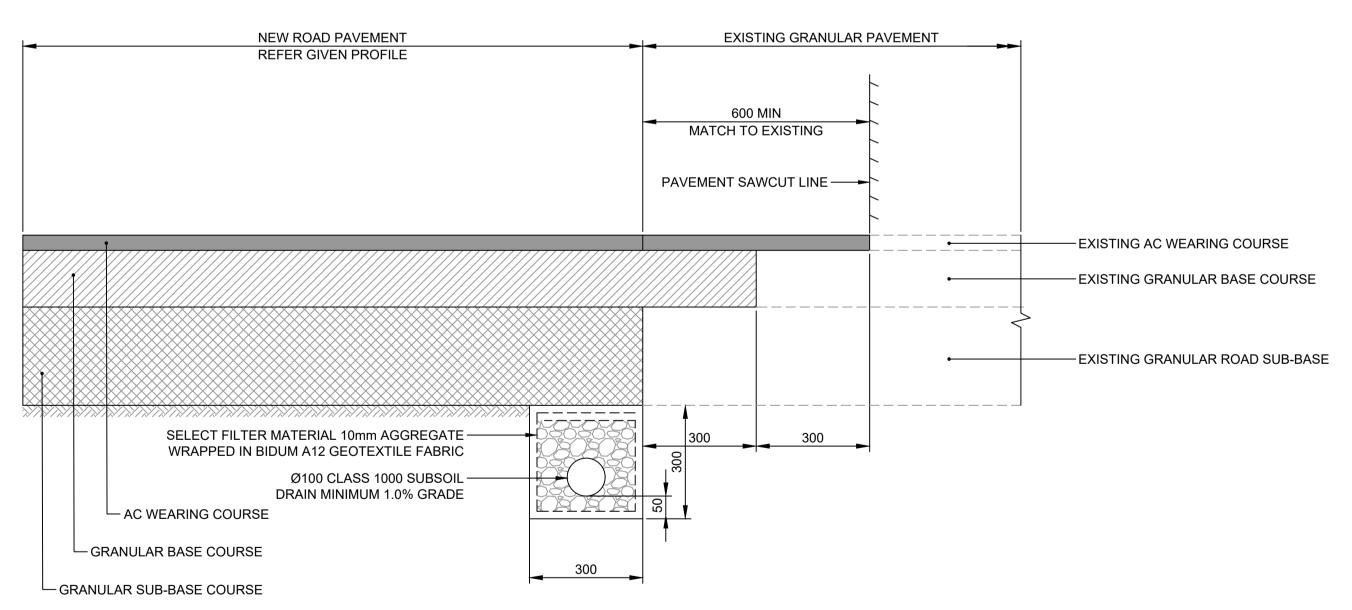
KERB AND GUTTER (KG)

SCALE 1:10





PAVEMENT WIDENING **KEYED INTO EXISTING PAVEMENT** SCALE 1:10



PAVEMENT TRANSVERSE **KEYED INTO EXISTING PAVEMENT** SCALE 1:10

									Client:
3	SCHEMATIC DESIGN FOR REF	JL ES	10.01.2025						
2	SCHEMATIC DESIGN FOR REF	JL ES	06.12.2024						
1	FINAL DRAFT ISSUE FOR REF	JL ES	21.11.2024						
Rev	Description	Eng Draf	ft Date	Rev Description	Eng Draft Da	ate [	Rev Description	Eng Draft Date	



NEW HIGH SCHOOL FOR SCHOFIELDS **TALLAWONG** 

Drawing Title:
PAVEMENT **DETAILS SHEET 1**  AS SHOWN ES ΑW Project No Originator

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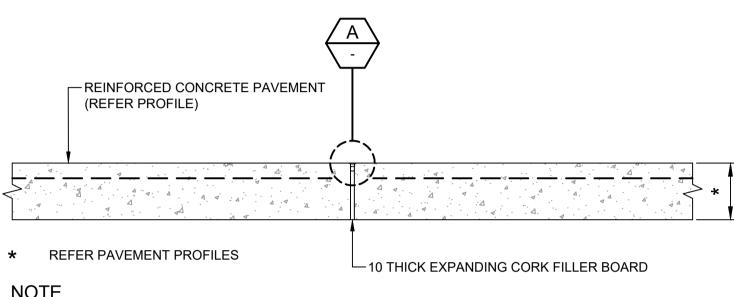
#### \* REFER PAVEMENT PROFILES

1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT

2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

### **DOWELED EXPANSION JOINT (DEJ)**

SCALE 1:10

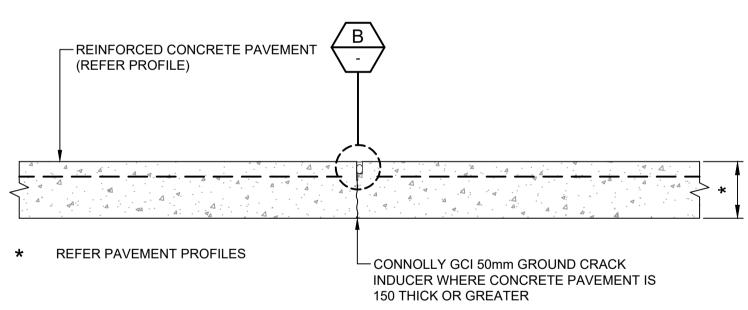


1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT

2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

### **EXPANSION JOINT (EJ)**

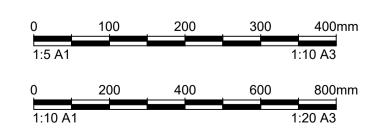
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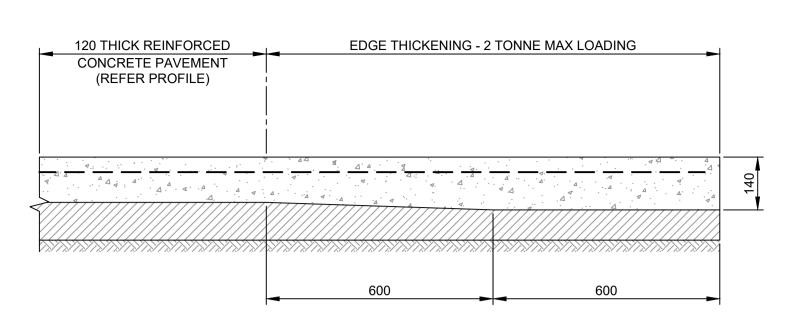


1. CONNOLLY CRACK INDUCED JOINT ACCEPTED OR APPROVED EQUIVALENT

2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

### WEAKENED PLANE JOINT (WPJ) SCALE 1:10

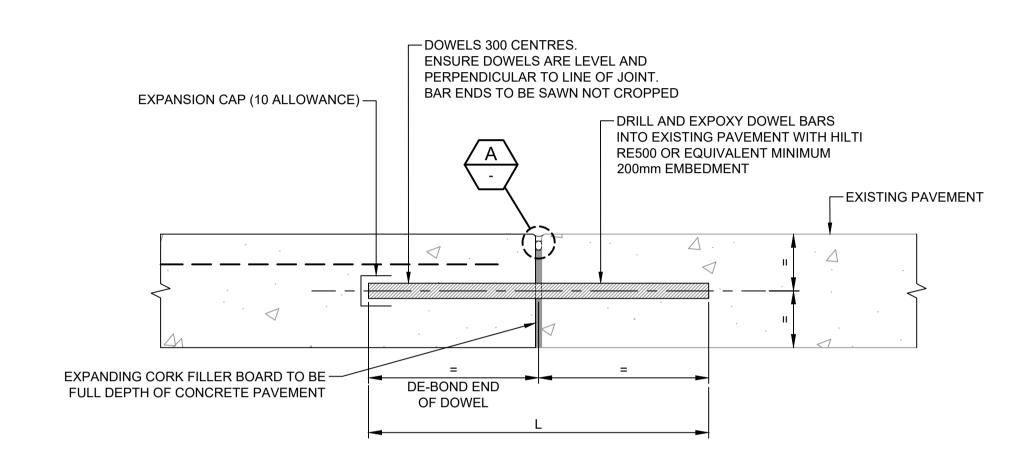


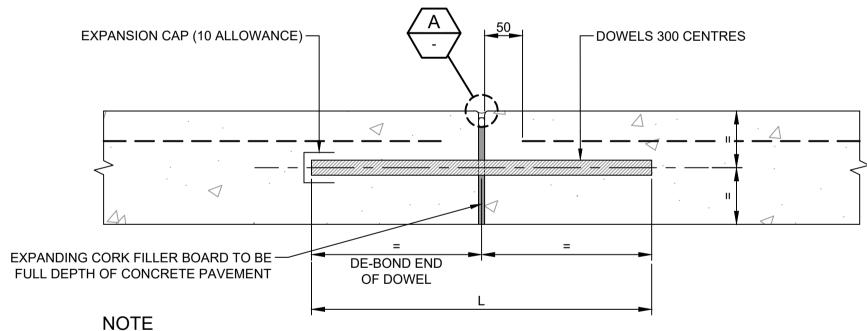


### 120 THICK REINFORCED CONCRETE PAVEMENT

EDGE THICKENING - 2 TONNE MAX LOADING

SCALE 1:10





DOWEL BARS TO BE PLAIN ROUND STEEL AND OF GRADE 250N

CONCRETE THICKNESS	DOWEL SIZE	DOWEL LENGTH (L)
150 - 190	Ø20	450
200 - 240	Ø24	450
250 - 270	Ø30	450
280 - 340	Ø33	450
>340	Ø36	500

DOWEL JOINT DETAIL

SCALE 1:5

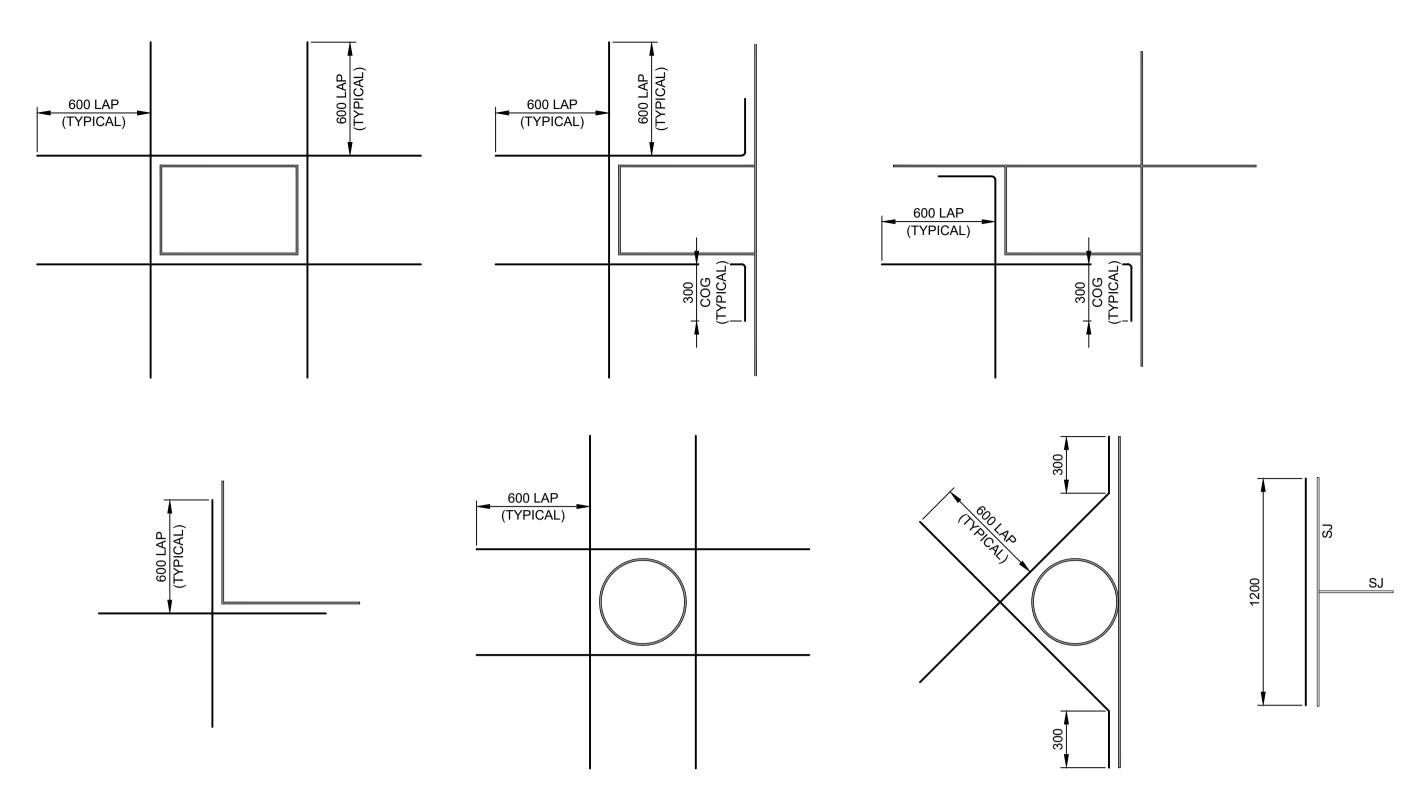
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2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024	1		GOVE
1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024	1		GOVE
Rev Description Eng Draft Date	Rev Description Eng Draft Date	Rev Description Eng Draft Date	





NEW HIGH SCHOOL FOR SCHOFIELDS **TALLAWONG** 

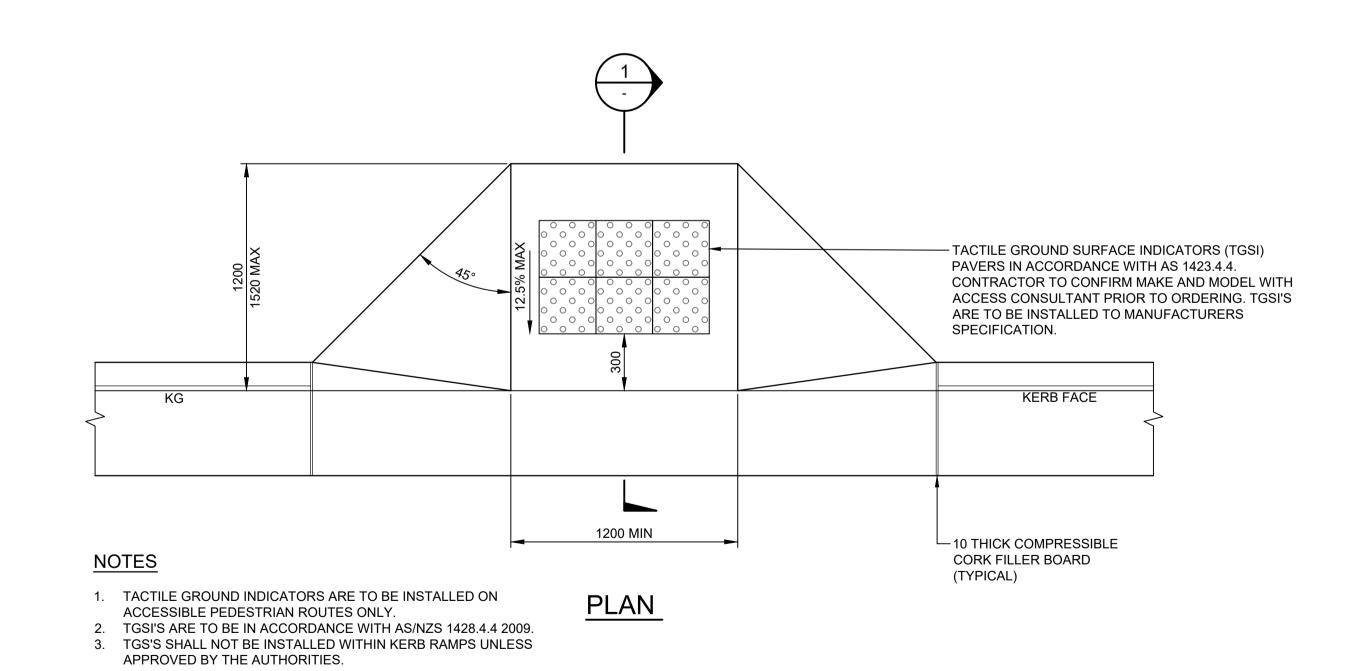
Drawing Title:
PAVEMENT DETAILS SHEET 2 AS SHOWN ES ΑW Project No Originator

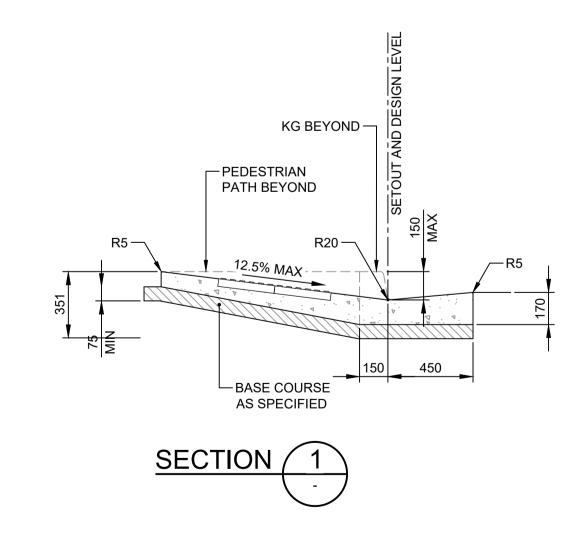


### NOTES

- 1. PROVIDE TRIMMER BARS AT SLAB PENETRATIONS (COLUMNS, WALLS, PITS ETC).
- 2. ALL TRIMMER BARS TO BE 1N16 U.N.O
- 3. PROVIDE 50 COVER EACH FACE U.N.O
- 4. TRIMMER DETAILS ARE TO BE READ IN CONJUNCTION WITH GIVEN JOINTING DETAILS

# TYPICAL SLAB ON GROUND TRIMMER BAR DETAILS SCALE 1:20





### RAMPED PEDESTRIAN CROSSING AT KISS AND DROP SCALE 1:20

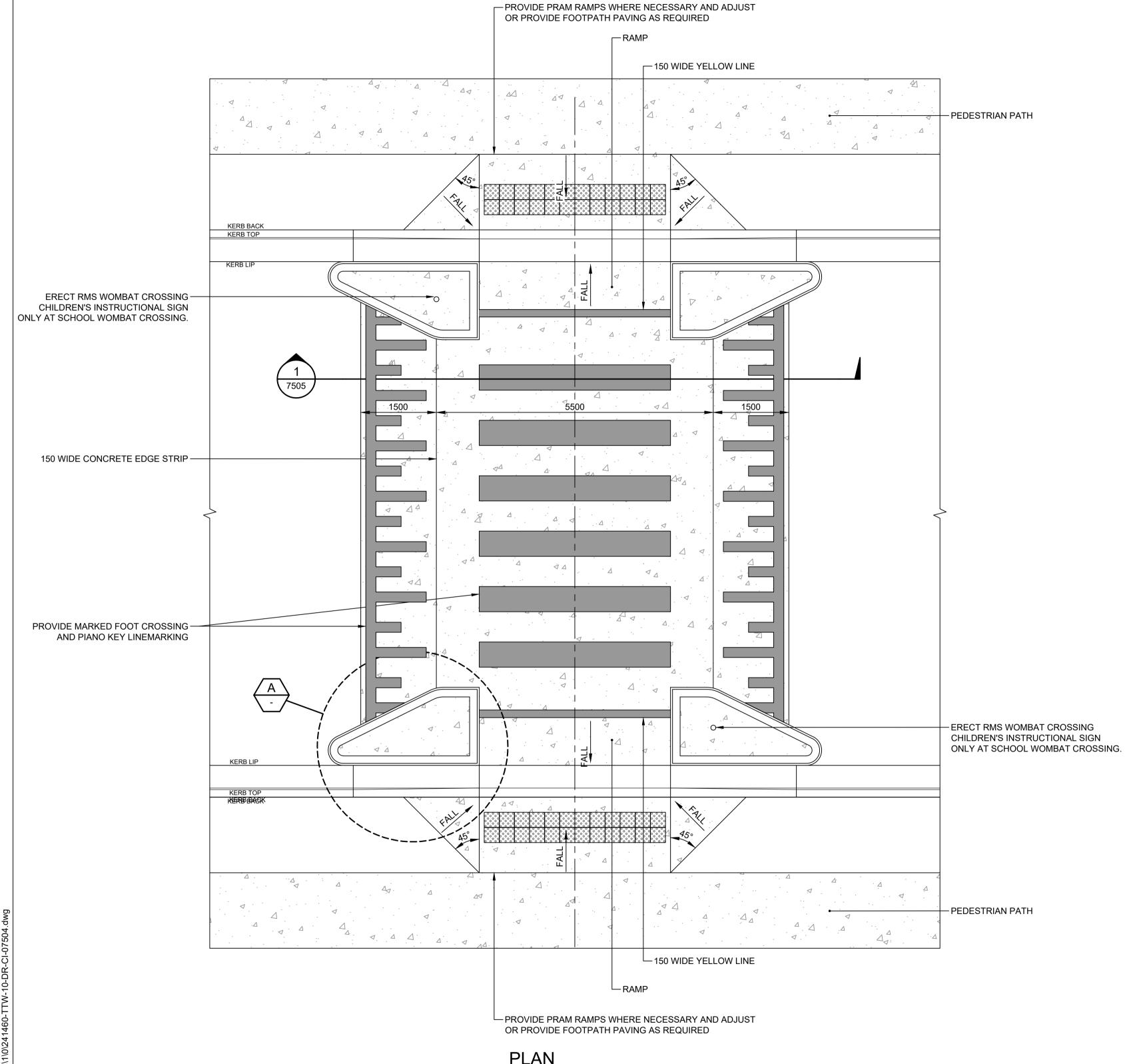
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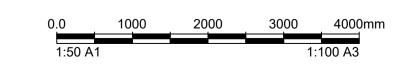
NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG PAVEMENT
DETAILS SHEET 3

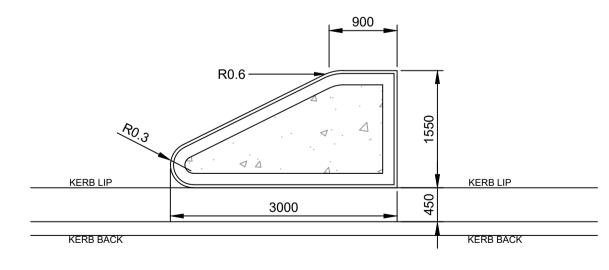
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DETAIL A
SCALE 1:50

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													AK
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2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024									NS GOVER
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024									GOVER
Rev	Description	Eng	Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	





NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG PAVEMENT
DETAILS SHEET 4

Scale at A1 Drawn Designed Approved

AS SHOWN ES AW CR

Project No Originator Type Role Sheet No. Ref

SECTION 1 SCALE 1:20 7504

0.0 1000 2000 3000 4000m 1:50 A1 1:100 A3

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3	SCHEMATIC DESIGN FOR REF	JL ES 10.01.2025					
2	SCHEMATIC DESIGN FOR REF	JL ES 06.12.2024					NS\ GOVERNM
1	FINAL DRAFT ISSUE FOR REF	JL ES 21.11.2024					GOVERNM
Rev	Description	Eng Draft Date	Rev Description	Eng Draft Date	Rev Description	Eng Draft Date	





NEW HIGH SCHOOL FOR SCHOFIELDS TALLAWONG

PAVEMENT
DETAILS SHEET 5

Scale at A1 Drawn Designed Approved

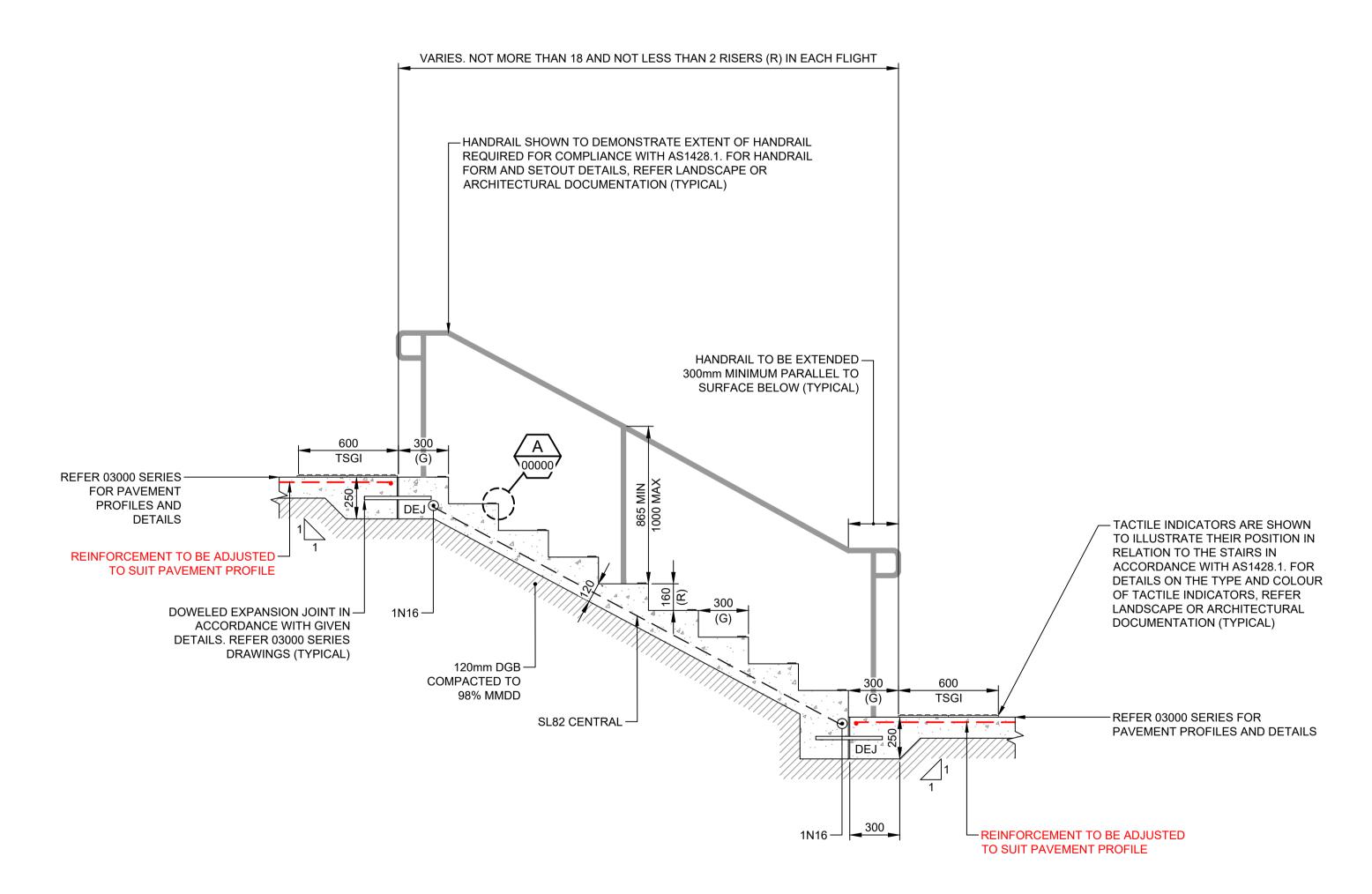
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Project No Originator Type Role Sheet No. F

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### TYPICAL STAIR ON GRADE

SCALE 1:20





3 SCHEMATIC DESIGN FOR REF JL ES 10.01.2025 2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024 1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024 Eng Draft Date Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description





### NEW HIGH SCHOOL FOR SCHOFIELDS **TALLAWONG**

### PAVEMENT DETAILS SHEET 6

NOSING STRIP TO BE IN ACCORDANCE WITH AS1428.1

AND THE NATIONAL CONSTRUCTION CODE (NCC)

### AS SHOWN ES AW Project No Originator STHS-TTW-01-00-DR-C-07506-3

10.01.2025 3:28 PM

### **NOTES**

CONCRETE STRENGTH TO BE 32MPa

NOT FOR CONSTRUCTION

STAIR TYPE

STAIRS (OTHER THAN SPRIAL)

SPIRAL

REFER SITE PLANS FOR SETOUT, LEVELS AND GEOMETRY

RISER (R)

MAX MIN

220 140

115

190

3. FOR MINIMUM SLIP RESISTANCE OF STAIR TREADS AND LANDINGS REFER LANDSCAPE OR ARCHITECTURAL DOCUMENTATION

RISER AND GOING DIMENSIONS

GOING (G)

MAX MIN

355 240

370 210

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SLOPE RELATIONSHIP

(2R+G)

MAX

700

680

MIN

550

590

