PORTERS CREEK PUBLIC SCHOOL EFSG

DATE:	3 February 2023
OUR REF:	PS122536-ESD-MEM-00001-01 PCPS EFSG Independent Review - As Built.docx
SUBJECT:	Porter Creek school – EFSG and Green Star benchmark Independent Review – As Built
FROM:	Nick Asha – WSP
TO:	Schools Infrastructure NSW (SINSW)

To Whom It May Concern

WSP has been engaged by TSA Management to provide an independent peer review of the Porters Creek school project, to identify specific sustainability measures implemented in the project and benchmark this against the version of the EFSG in effect and the strategy agreed at project commencement and estimate the number of credits and points achieved using the Green Star Design and As-Built rating tool.

This information has been used to determine whether the current project design achieves the performance benchmark for a 4 Star Green Star outcome and meets the criteria for the EFSG Design Guidelines set out in the accompanying schedule.

This memorandum has been prepared to demonstrate the following:

- The project design has been completed in accordance with the EFSG ESD strategy as agreed for the project
- The project has been benchmarked to a 4 Star Green Star Design and As Built target

Reviewer

Nick Asha has completed the independent review. Nick has over 25 years' experience, is a qualified Green Star Accredited Professional, has served as the Green Star Accredited Professional on many significant projects and has been involved with a series of NSW schools projects operating under EFSG requirements, including Parramatta Region, Young High School, Tweed Heads Schools and Bletchington & Millthorpe Public Schools.

Nick's CV is attached to this document for reference in Appendix A.

WSP has been engaged by TSA Management on behalf of SINSW, and is independent of Stantec, the project sustainability consultant, who has provided design advice throughout the development of the design.

Documentation

The project's design and sustainability initiatives were assessed against the Green Star credit criteria set out in the EFSG ESD Schedule for benchmarking and gap analysis, with each credit being assessed to determine if the project design can satisfy the criteria.

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WSP has completed independent reviews of the project throughout design, tender, construction and postconstruction phases to confirm the desired sustainability performance and outcomes are being achieved.

This review is based on As Built documentation, including specifications, drawings, reports, modelling and calculations relevant to sustainability and as identified in the agreed evidence to be provided for the EFSG ESD strategy.

Results

EFSG ESD STRATEGY

From the independent assessment of the as built project documentation, we believe that the ESD strategy set out for the project in accordance with the EFSG Design Guidelines (DGs) and criteria has been or can be met in the project design as constructed.

A majority of indicators involving mandatory EFSG DG elements have been demonstrated as complete. 6 initiatives considered incomplete at final review were subsequently satisfied by undertaking the recommended actions noted, and accepted after review and approval by SINSW.

All EFSG objective indicators involving 'non-mandatory' EFSG DG elements have been demonstrated as complete.

Table 1 summarises the EFSG Objective Indicators for which we have made recommendations for actions to be taken by the project team to fully satisfy the evidence requirements for the strategy.

Table 1EFSG ESD objectives with recommended actions from as built review

Theme & objective from SINSW Sustainable School Infrastructure Strategy	Indicator, sustainability initiative & related DGs	Status	Recommended action
Energy & Carbon	EC1: Energy Efficiency	Complete	Unable to sight any commissioning report or relevant O&M information confirming the operation of the
	Indoor		system in response to CO2 sensors.
	Environment		
	Controls		Action: Recommend a statement from mechanical /
	DG55		electrical contractor to confirm sensors installed and

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Theme & objective from SINSW Sustainable School Infrastructure Strategy	Indicator, sustainability initiative & related DGs	Status	Recommended action
Place	P3 – Welcoming learning spaces Indoor CO2 levels DG55.02	Complete	commissioned to requirements is obtained to close out this requirement. Once sighted this item can be closed as compliant [Update 02/02/2023]: Evidence noted above sighted and accepted
Waste & Materials	WM1: Materials selection & use Sustainable Timber DG2.5.1, DG21.05.01	Complete	There is no reference to FSC or other chain of custody/stewardship program in either the architectural specification or BOQ. Specification certification clause 2.2 requires timber products originating from sustainably managed forests, but no detail of the application or the certification required has been completed. Action: obtain evidence of all FSC or otherwise certified sustainably sourced timber used in the project. Once sighted this item can be closed as compliant [Update 02/02/2023]: Evidence noted above sighted and accepted

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Theme & objective from SINSW Sustainable School Infrastructure Strategy	Indicator, sustainability initiative & related DGs	Status	Recommended action
Place	P3 – Welcoming learning spaces Low VOC emitting materials DG2.5.2	Complete	BOQ makes no reference to the materials listed in the paints/adhesives-sealants/carpets VOC tracking schedules. In addition to listing the products a confirmation of their compliance with low VOC criteria is needed. Action: recommend data sheets / compliance statements for the listed products be provided and filed under the As Built package's DG02.05 EFSG folder. Once sighted this item can be closed as compliant [Update 02/02/2023]: Evidence noted above sighted and accepted by SINSW
Place	P3 – Welcoming learning spaces Low formaldehyde emitting materials DG2.5.2	Complete	Comment as above for low VOC materials. Action: recommend data sheets / certificates confirming the Green Tag product certification for the listed products be provided and filed under the As Built package's DG02.05 EFSG folder. Once sighted this item can be closed as compliant [Update 02/02/2023]: Evidence noted above sighted and accepted by SINSW
Place	P3 – Welcoming learning spaces Pesticide free environments DG2.5.3	Complete	Action: Recommend head contractor provide statement confirming compliance with pesticide free policy. Once sighted this item can be closed as compliant

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Theme & objective from SINSW Sustainable School Infrastructure Strategy	Indicator, sustainability initiative & related DGs	Status	Recommended action
Energy & Carbon Energy & Carbon	EC1: Energy Efficiency Energy Conservation DG65.02 EC1: Energy	Complete	 Comment: The intent of the whole of life assessment requirement in DG65.02 is to demonstrate that consideration has been given to the relevant benefits and merits of material and equipment selections in the context of achieving best operational energy efficiency and maintenance costs for the asset life against capital outlay. The previously provided documentation including NBRS whole of life assessments demonstrates this has occurred on a qualitative basis. Future projects should however acknowledge this requirement is present for a number of the design guidelines, and allow for undertaking whole of life / life cycle costing analysis and as minimum provide a statement confirming such analysis was undertaken, the criteria considered and justification for the selections made as a result. While DG01 is a recommended guideline, DG65.02 is mandatory and requires the whole of life basis of design to be applied. Recommendation: The NBRS Technical Reference
	Efficiency Energy efficient appliance & equipment DG2.3.3		Sheet For Construction issue dated 15/09/2021 should be updated to reflect As Built.
Energy & carbon	EC1: Energy efficiency Access for Maintenance, Building Users Guide DG16.10, DG64.10, DG65.02	Complete	O&M information provided includes warranty and test information and broadly satisfies criteria for user information. Generic Building User Information document identified in submission package 12_SINSW Documentation Recommendation: Records of training provided should be included with the handover as built package. if a site-specific user information guide is also required, this may be an additional service to request from the head contractor post-occupancy.

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Theme & objective from SINSW Sustainable School Infrastructure Strategy	Indicator, sustainability initiative & related DGs	Status	Recommended action
Place	P3 – Welcoming learning spaces Safety by design DG14.02, DG31.03, DG53.11, DG53.16, DG53.17	Complete	We recognise that safety risk assessment has been undertaken in the evidence of as built security services drawings. Recommendation: a summary safety in design report to be sighted by SINSW, signed off by head contractor.

GREEN STAR BENCHMARK

From the independent assessment of the as built project documentation, the project score 45.6 benchmark points. This meets the 45 point performance benchmark required of a 4 Star Green Star rating.

The detailed credit by credit assessment is provided in Appendix B, and the results summarised in Table 2.

Table 2Green Star As Built Credit Summary

GREEN STAR CATEGORY	POINTS AVAILABLE	CREDIT POINTS ACHIEVABLE						
Management	14	5						
Indoor Environment Quality	17	8						
Energy	22	9.1						
Transport	10	1						
Water	12	8						
Materials	14	2.5						
Land Use & Ecology	6	1						
Emissions	5	4						
Innovation	10	7						
CORE POINTS	100	38.6						
INNOVATION	10	7						
TOTAL	110	45.6						
4 Star Green Star rating benchmark	4	.5						
Can the project achieve a 4 Star Green Star benchmark?	yes							

Specific Sustainability Design Initiatives

Sustainability is embedded within the design of this project, and as built documentation demonstrates this to be the case. Whilst there are many features throughout the project, below are some initiatives which have been implemented:

Management

- Engagement of a Green Star Accredited Professional to consult to the design team and drive sustainability
- Formalised commissioning process
- Building energy metering, energy monitoring and calibration requirements
- Operational waste management strategy to divert waste from landfill

Indoor environment quality

- Reduced indoor pollution through ventilation systems
- Outdoor air ventilation provided
- High quality acoustic design, lighting design, solar glare controls, daylight access and views
- Energy and greenhouse gas emissions
 - Rooftop PV system
 - High efficiency LED lighting system
 - Performance glazing and shading for good passive design
- Water
 - High efficiency fixtures and fittings
- Materials
 - Lower impact concrete and responsible steel
- Land use
 - Site has been assessed for hazardous materials and remedial actions identified
- Emissions
 - Low stormwater peak discharge off site, and high stormwater pollution reduction targets
 - Minimised light pollution for energy efficiency and minimising ecological impacts

Based on the independent assessment of the project as built documentation following project completion, the project has achieved the performance benchmark of a 4 Star Green Star rating.

Kind Regards Nick Asl

Associate Sustainability



APPENDIX A CV OF REVIEWER

NICK ASHA Associate Sustainability



7 years with WSP 27 years of experience LOCATION Sydney (George St), Australia

PROFILE

Nick is an Associate with WSP's ANZ Sustainability team. He has over twenty five years' experience across a breadth of professional engineering roles including sustainability consulting, infrastructure, materials handling, industrial automation and controls engineering.

Nick has provided extensive analysis and guidance on a broad range of educational projects spanning childcare, primary, secondary and tertiary facilities.

Close work with Department of Education and Schools Infrastructure NSW projects and guidelines has provided Nick with a thorough understanding of public education ESD requirements for now and into the future. Nick has delivered ESD outcomes for numerous education projects including schools within the Parramatta , Central West, Southern Cluster and Northern regions for the NSW Dept. of Education as well as private and independent schools and universities. He has a deep working understanding of the EFSG and its function for benchmarking the ESD performance through design and construction of new and refurbishment projects with SINSW, and has established a strong network with relevant education stakeholder groups and a quality working relationships with SINSW Sustainability team.

Nick combines a passionate and pragmatic approach to sustainable building solutions with technical expertise in a comprehensive suite of computational tools and analytical techniques. He is an accredited NatHERS thermal performance assessor and Green Star Accredited Professional. Thriving on the technical challenge of complex tasks, Nick applies a rigorous approach to analysis, and enthusiastically engages with clients and project design teams to produce sustainable, robust and financially effective outcomes.

EDUCATION

Masters of Design Science (Sustainable Design), University of Sydney	2011
Bachelor of Engineering (Hons.) (Mechatronic Engineering),	1995
University of Sydney	

PROFESSIONAL ASSOCIATIONS

Green Star Accredited Professional NatHERS Accredited Assessor

PROFESSIONAL EXPERIENCE

Education - Primary and Secondary

 Tweed Schools - Tweed Heads South Public School & Tweed River High School, Tweed Heads, NSW, Australia (2021 - Present): Lipman Pty Ltd / Bennett Constructions (NSW) Pty Ltd, Sustainability Project Lead

Refurbishment and expansion of the two existing schools, including new VET buildings. Develop and coordinate ESD strategy for the project in line with EFSG and implement in accordance with SINSW Sustainable Development (SD) Plan framework. Nick worked with the project design and contractor teams to define and deliver against the ESD requirements for the project under the EFSG. Participation in project meetings, liaison with stakeholder teams and coordinating WSP delivery of assessment and reporting responsibilities.

 Mainsbridge School for Special Purposes (SSP), Liverpool, NSW, Australia (2018 - 2021): Hayball Architecture, Project Lead

Green Star, Section J Energy Efficiency, ESD Concept Design. DA, DD & Tender, Construction

 Southern Cluster Schools: Queanbeyan SSP, Queanbeyan, ACT, Australia (2018 - 2020): Hayball Architecture, Sustainability PM

Education - Secondary

 De La Salle College Caringbah, Sydney, NSW, Australia (2019 - 2020): Build369, Sustainability PM

Section J thermal envelope assessment (JV3).

 Southern Cluster Schools: James Fallon High School, Albury, NSW, Australia (2018 - 2020): Hayball Architecture, Sustainability PM

ESD Concept Design, Section J Thermal Envelope Analysis (JV3).

 Southern Cluster Schools - Young High School and Community Library, Young, NSW, Australia (2018 - Present): Hayball, Sustainability PM

Delivery of new school and community library facility and upgrades to existing buildings, benchmarking of the library project to Green Star Design and As Built in accordance with requirements of the EFSG, with verification through peer ESD review. Delivery of Section J performance solution assessment, ESD strategy and initiatives development.

Policy

- City of Sydney Net Zero, Sydney, NSW, Australia (2019 2020): City of Sydney, Senior Sustainability Consultant
- ABCB NCC 2019 Section J Validation case studies, Sydney, NSW, Australia (2018 - 2019): Australian Building Codes Board, Senior Sustainability Consultant

Education - Primary

 Parramatta Region Schools: Parramatta West Public School, Parramatta, NSW, Australia (2018 - Present): Conrad Gargett / Taylor, Senior Consultant

ESD Concept Design, Section J Thermal Envelope Analysis (JV3), Solar PV analysis, Life Cycle Costing of plant, Thermal Comfort assessment

Public Buildings

 Belconnen Arts Centre, Canberra, ACT, Australia (2018 - 2020): PBS Building ACT, Sustainability Consultant

Refurbishment and extension with addition of theatre, rehearsal spaces, gallery, studios. Energy Efficiency Section J services and envelope assessment (JV3).

 Shellharbour Civic Centre, Shellharbour, NSW, Australia (2016 - 2020): ADCO / Shellharbour Council, Sustainability PM, GSAP

Green Star Public Buildings, Section J.

Retail

Woolworths Shopping Centres, NSW, Australia (2017 - Present): Fabcot Pty Ltd, Sustainability PM, GSAP

Woolworths Group are targeting the achievement of Green Star Design & As Built ratings for new assets as they are developed. WSP are engaged with Woolworths Group to deliver assets in multiple locations across NSW, with similar rollouts in Victoria, Queensland and Western Australia. Mixed use retail local shopping centres typically comprising Woolworths major supermarket tenancy with specialty food and general retail tenancies and administration offices.

Health Infrastructure

 Port Macquarie Base Hospital Mental Health Unit Expansion, Port Macquarie, NSW, Port Macquarie, NSW, Australia (2016 - 2019): Silver Thomas Hanley / A W Edwards, Sustainability Consultant

NCC Section J DTS and Performance Envelope Assessment, Daylighting analysis, Thermal Comfort and Solar assessment. Construction inspection for Section J envelope.

Education - Tertiary

University of South Australia (UniSA) Great Hall, Adelaide, NSW, Australia (2015 - 2016): JPE, Sustainability Consultant

Daylight analysis and annual daylight glare probability assessment, external reflectivity glare assessment, energy modelling (JV3). Hall spaces included auditorium, function spaces, admin and indoor swimming pool.



APPENDIX B EFSG ESD STRATEGY AND GREEN STAR BENCHMARK REVIEW OUTCOMES

PROJECT: Theme & objective from SINSW's Sustainable School In Infrastructure	PCPS Indicator	Sustainability initiatives / requirements from the ESSG This is an outrad only from the relevant ESSG. For full requirements refer to https://olig.def.new.edu.au/weicone	ISSG ISSG type	Crossover with Green Star	Standard avidence to demonstrate compliance	Has this been implemented in the project? Y or N	Contractor's ISS consultant comments	Actual evidence proposed This evidence needs to show that the requirement from column C has been met	Design stage - evidence proposed	As Built stage - Additional evidence proposed	Documentation check is the evidence proposed accepted? Y or N	independent checkpoint 1	Stantec's response 04/05/2021	Independent checkpoint 2	Stantec's response 09/10/2021	Independent the (koolint 3	An-built check	Responses received 08/08/2022 + 14/09/2022	An-built charák ERIAL SG/18/2022	As built check FIMAL 82/02/2023
Energy & carbon ef	C1: Energy efficiency But	ingrammed and VC. Aday is disqued and hold as that energy consumption is produced for an and 100 leases that Thad is motivue complexes on XCC represents.	th DG02.03 Mandatory	DAII c152.0 CHG Imission Reduction- Conditional Requirement	Longy modeling report / Predicts energy modeling and thermal control in the second second second second second second building the retention NLC regularizers, and leaded to the resolution of the second second second second leaded to the resolution of the second se	¥	This is repeated to be achieved through a return of hadding emotype performance and applied energy efficient systems (arrange efficient LED lighting systems, efficient modulated system) – providered of VV perform. Schartlin expected to comply with NCC 2014 – 2015, evolven to be available accurately performed in NCC 2014 – 2015, evolven to be	Evergy Mobiling Report Section J Report Architectural Drawings Micharinal Disparent schedule Electrical Schematics Gass data shreti Gassing Bernard Schedultura Solar PV analysis Report	Energy Mobiling Report Section / Report Architectual Drawings Machanical Drawings Machanical Experient Andrée Exectinal Schemelan Ganarig Berneral Academin Salar Versiola Report Hydrawlac Drawings Versiol Towayto Towangs	As Bell Drawlep Commissioning Dela	Energy modeling also requires other services drawings and schedules such as hydroxile (domatic but water and after hydroxile purq) and water in strateging (Plan and excalators - if applicable)	Dargy mobiling demonstrates 415 reduction in GHG emissions					As built documents reviewed against documents used for the Dorgy Modeling Report I: Innotes of charges between the design that I Bergy Modeling Report is still wild in the As Built.			v
Energy& Carbon ef	C1: Deepy efficiency The	tragg constraints the second	ere D0552 Mandatory	DAB c13 GHG Emission Refuction]]Oug input domen	¥	The second react that a stress is a stress for a stress of the stress of the second stress of	Long Making Nyart Settins I opert	Denga Madeling Report Section Inspect	As ball Drawing Constanting Date	As yes allow	SSSSS for the SSS website solves white of the approximation to exercise manifest expectation and exercises	COLD III mananada hari "Niche d'Af agench hata an da unitatu and dang an destrut ayana". Na binha analari hata da gang an destrut ayana, "An binha analari hata da gang an destrut ayana". Na binha da gang ang	Lapitor glanowski začilog ober til social social social social social social ter to social social social social ter to social ter to social social ter to soc	Territe na regensibili for a deletalog tha projet. Leden al for memoria VC ed will be provide dra t-ball administra	Noted. Peaker provide relevant as-built documentation address complement to the experiment	Wole of the measured property 2015 - Hoever, assessment does no matches come of another speed, assessment of methods and of the	The popular studies with Code DSOLE 20 much the density approximations of the code DSOLE 20 much the density approximation of the code DSOLE 20 much the community of the code DSOLE 20 much the community of the code DSOLE 20 much the density of the	Y Sector of the while of the summaries requirement in SOLID 1 to of memory and appointed indexis and appointed	Y Descent of the white of the summaries requirement is SUSLES to the of interim descent paperts induces a low standard at Subard part of paperts of standard and paperts induces in the first and the standard at Subard part of paperts and the standard standard at Subard part of paperts and summarias in the standard standard standard standard standard standard descent bits in a scientific of a significant while and induces and the standard standard standard standard standard standard standard standard standard standard standard standards
Energy & carbon ef	C1: Energy efficiency - W	Daylphong	og2.1.1 Mandatory	DAB c15 GHG Emissions Reduction	Daylight modeling report demonstrating how natural daylight has been maximum and in all hobitable spaces; and A so built dayling a demonstrating that the model accurately represents the building (i.e. window size and location; skylights installed; etc.); and Specifications supporting inputs used in modeling (e.g. skylights and glas spece)	Partial	Levels of daylight will be maximized across the learning areas, while limiting gives through passive design. No daylight sensors are proposed on the norm. Teachers can control lights in space when daylight is sufficient.	Daylight Modeling Report Decision (Lighting) As Builts	Daylight Modeling Report Architectural Drawings Gauss data sheets (showing YLT) Walls, cellings and floors surface reflectance	Decrical (Lighting) As Bulls	Also requires the following information: Architectural Drawings Glass data sheets shearing VLT Walls, cellings and floors surface reflectance	Døylight report demonstrates 42% of space with good døylight.					Architectural as built drawings have been reviewed against the drawings used in the Daylight Report by Stantec Immaterial changes between the design thus the Daylight Report is still valid in the As Built.		v	¥
Energy& carbon ef	C1: Energy efficiency	Stating devices On exposed locates subject to direct switcht, external window shading has been cansidered as part of the building design	DG2.3.1 Mandatory	DAB c15 GHG Emissions Reduction	1. As built drawings	v	Architectural intent & drawings include fixed shading devices.	Architectural Drawings Forçade As Built drawings FFBLE Schedule showing blinds	Architectural Drawings	Fapide As Bull Drawings FFBE Schedule (showing blinch)		Averings shown in the architectural drawings. More fixed shading devices will likely reduce natural daylight in the spaces.					Architectural as-built reviewed.		v	¥.
Energy& carbon ef	C1: Energy efficiency	Lighting energy conservation Lighting system must have timed or sensor freeback functionality for energy conservation	DG2.3.2 Mandatory	DAE c15 GHG Emissions Reduction	1. As built mechanical drawings / statement from head contractor	¥	Lighting motion sensors (PIR) are included in the desgin, controlling immediate environment	As Built Electrical Drawings PIR Functional Description Confirmation from the Head Contractor of Head- Contractor installation		As Built Electrical Drawings FIR Functional Description Confirmation from the Head Contractor of Head- Contractor Installation		Lighting sensors included in the electrical drawings					Electrical as-built reviewed		v	¥
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Energy& carbon ef	C1: Energy efficiency	Maximum Ruentiation grower densities ton J per E of the National Construction Code provides safely that its acceptabl various locations. This, and a stater element of Section J per E shead be applied appropriately.	le In DG63.05.01 Mandatory	DAB c15 GHG Emissions Reduction	1) Lighting drawings 2) Lighting specifications / schedules 3) Lighting modeling report showing compliant power densities	¥	Cade requirements to be exceeded by up to 50%. Documentation to be provided by electrical consultant demonstrating J& Compliance.	Luminaire Schedule As Built Lighting Drawings 36 Calculations	Luminaire Schedule 36 Calculations	As Built Lighting Drawings		Lighting power densities provided in the Energy modeling report. Electrical documentation received does not include this information. Pleas confirm the lighting power densities in the electrical design documentation.	Refer to updated evidence provided through the DFG DC1- DG51 JC5 21 - Max Illumination Power Dentities Exidence Includes: - Indus pilots with UPD tables - Lighting Data sheets	LPD shown in the Lighting Design drawings.			Au-Built Lighting Drawings reviewed against design and isolax picts provided are still applicable.		v	¥
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Energy&Carbon ef	C1: Deergy Co efficiency If st The	Instance of the second	n DG61.07 Negotiable / TS DG65.03.01	DAB C15 GHG Emission Refuction	1] Octool & Noting & Serving Allowing with the group, and astandar centrols.	Partal	Motion wersen aus greenderk to control lights, Lights an Philanean Beignetist to and And Schwarts of incenting (including) down that control are associated in the Control of the Schwart Lights (control and control of the Schwarts) Lights (control and control of the Schwarts) Schwarts (control and control of the Schwarts) Schwarts (control of the Schwarts) Schwarts	As but Destruit & Lyting Drawings	Detrail Lighting Drawings	As Build Destroid & Lighting Drawings		Lighting sensors included in the electrical detextings					Electrical as-built reviewed			
Energy&carbon ECI ef	S C1: Energy efficiency - b	Degraduated text (Section 2007) Methods with the text and the section and the section and the section and the section 2007 and the sec	t DG2.3.2 DG55 Mandatory DG16.09	DABC15 GHG Emissions Reduction	 As ball mechanical drawing / planment from head contractor, Wheth of the cost analysis drawing statistical particular series whether the net on WOX performance. 	¥	Pill semans to be installed on lighting system, controlling mechanical spriam. In line with DOSS, AJC to be pash on, sensor off, pash off, timer off.	Mechanical Drawings Mechanical Equipment schedule		Mechanical Drawings Mechanical Davigment schedule		Lighting control system specified in the electrical services performance brief					Electrical as-built reviewed		×.	×
Energy & carbon ef	C1: Energy efficiency Ele	Conggentianes & applicances & applicances extrain apparent multi-art hash 5.5 sins a door of the standards appropriate Standards	In DG2.3.3 Mandatory	DAB c15 GHG Emissions Reduction	 Schwicks of spylanoms and spylanoms with their star ratings of performance standorchs, Speedray hand motivation or an Alano. All appliances and explanent regulard in the GEP must be listed, and air conditioning explanent, electric mature, transformers, etc. 	v	Applances to be in line with UTSG and Green Star requirements.	FFEE Schedule Applances and equipment schedule with star ratings Confirmation from the Head Contractor installation	FFBLESchedule Applances and equipment schedule with star ratings Confirmation from the Head Contractor Installation					Schedules provided but please provide confirmation on compliance to the design guide 2.3.3 by means of datasheets, etc.	As per schedule provided appliances and equipment are compliant with the BTSG DG 2.3.3 Energy Efficient mquirements: -Refrigerator REFOL: 1.5 Stars (BTSG min 2.5 stars) -Refrigerator REFOL: 4 Stars (BTSG min 4 Stars) -Dahmacher Durdic: 4 Stars (BTSG min 4 Stars) Confirmation of installation to be provided at as built	Schedule with nontinuted energy star rating provided.	Please provide confirmation that the specified appliances and equipment have been installed.	Confirmation was provided as part of the DBM package PCPS-050G, et auth Package, 000100 General Documents 100 J. Head Contractor/OBM Package/Usavey Norman Beffer to extracts attached in DG 2.3.3	Y ArBan Resonance the MBS Trobulat Relevance Steet For Construction Issue deed 35/07/2023 be updated to reflect A Built Near constants to produce statement comforming schedula in the Tarowy Norman OBM warranty dec package is the installed appliance But	Y Action: Resonance the NIBS's facilities indexerso Street For Construction Insue dated 15 (07)(22) is a updated to reflect As built. Head contract to provide alternatic calculationing schedule at the Internet Viernam OEM warrantly doc package is the installed applance fast.
Energy & carbon ef	C1: Energy efficiency - En	Markingkon Delay Karlo (Marking and Carlos Santa) - Canady meter dama and an anna anna anna anna anna an	d a DGD4.01 Mandatory	DA8 c15 GHG Emissions Reduction	1. Downel modeling report 1. A built existence demonstrating the bandwark for excerning expresentation different data 1. Specifications/ calculations supporting modeling inputs	n y	Dermit cardent multility will be complete complete Mechanical system dissipation of the system of backs and any start of the system of the system Advant any specific to comply with OCSE may be more discontrol on any system of the system one margor multility is completed and reported.	Thernal confort nodeling report Energy Modeling Report An-Bulk Michanical / Architectural drawings	Thermal confurt modeling report Energy Modeling Report	As Bult Methodical / Architectural drawings		Requirement ask for heat loss/gain not thermal confort. Every modeling report and Section 1 report demonstrates this.					As built documents reviewed against documents used for the Energy Modeling Payor Limitative Strong Modeling Report in still wild in the As Built.		×	×
Energy & carbon ef	C1: Energy C1: Energy efficiency C2:	Detailed Section 2014 Detailed Section 2014 Section 2014 Detailed Section 2014 Sect	eco ser DGDS Mandatory/ DG27.12 Recommended	DA8 c15 GHG Emissions Reduction	The end modeling report A shall evidence demonstrating measures implemented to reduce need for a sinter country Providence (a provide reduction of a providence design initiatives explanational	v	Refer Architectural design for datash ish barren, Anaban, window operability and knyosis	Thermal confict modeling report Energy Modeling Report An-Bailt Architecture of examps Fagude details	Thermal confirst marking report Dargy Masking Report	Au-Bult Mechanical / Architectural drawings		Section 3 and Thermal Comfast Report sufficient					As built documents reviewed agoins documents used for the Energy Modeling Report. Immaries in document between the design thus Energy Modeling Report. stati valid in the Ar Built.		÷	×
Energy & carbon ef	C1: Energy efficiency	Vestilation strategy Avertilation strategy is to be developed to array of the unificative provided to all spaces to meet the requirements of the BCARCA card associated instraction. Specifically vestilates explorent should: - Separa transmitted free provides including encoursements.	DG57.01 Mandatory	DAB c15 GHG Emissions Reduction	1) Cooling system strategy including WOK analysis 2) Corcept plans 3) Construction drawings 4) Trade-based specification 5) Als built drawinn	¥	Vestilation strategy to provide high quality internal spaces, with significant fresh air. Natural vestilation option available through for de operability.	Energy modeling report Ar-Sulk Architectural drawings Mechanical Drawings Mechanical Equipment schedule	Energy modeling report	As Bult Architectural drawings Mechanical Drawings Mechanical Equipment schedule		Mechanical schedule mechanical ventilation (including provision of outside air) in habitable upaces and architectural drawings show natural wertilation opening					Mechanical as built reviewed.		v	¥
Energy & carbon ef	C1: Energy - V efficiency		e DGDS.01 Mandatory	DAB c15 GHG Emissions Reduction	As built drawings demonstrating windows have been installed as required.	. ¥	As built drawings demonstrating windows have been installed as required.	Ao-dult Architectural drawings Façıde detals	Architectural drawings Façade details	Ao-Bult Architectural drawings Fapade details		Architectural elevation shows window openings					Architectural as built reviewed		¥	¥
Energy&carbon ef	CI: Energy efficiency	Instead of the sector of the section of the sector of	DG57.18 Mandatory	DAB c15 GHG Emissions Reduction	As bult metantical drawings and specifications Datasch from commissioning report	N/A.	Not required as solural vertiliation can be achieved.	N/A												
Energy&carbon ECI ef	C1: Energy efficiency - Pro	Collegation of the second seco	ic DGDS.02 DG37 Mandatory	DAB c15 GHG Emissions Reduction	As built mechanical drawings demonstrating vestilation has been installed as required.	y	Roof Vertilators gravided per LFSG. Refer Roof Mechanical Plans	As Bult Mechanical Drawings Mechanical Equipment Schedule	Architectural plans Mechanical Plans	As Bult Mechanical Drawings Mechanical Equipment Schedule		Roof vertilators are shown in the mechanical drawings					Mechanical as built reviewed		×.	×
Energy & carbon ef	C1: Energy P efficiency P	Real worklass control Provide controls for the operation of the materiand dampers on the real well-killion. Generally one witch is required for each space within the school where real well-killion are included	DG85.16 Mandatory	DAB c15 GHG Emissions Reduction	Mechanical / electrical drawings showing controls	¥	Edmonds Ecopower Hybrid Roof Ventilators installed	As Built Mechanical Drawings Mechanical Equipment Schedule	Architectural plans Mechanical Plans	As Built Mechanical Drawings Mechanical Equipment Schedule				Mechanical drawings and schedules provided outlining root ventilator control ve PiC control. Network, design guide 65.15 outlines requirement for a switch mechanism. Please provide explanation on how the design meets the requirement.	Refer to updated evidence provided in DG65.16 and DG57.14	Please provide a description of how the EFSG requirement has been implemented in the desig	n. As per previous comment	The Submission package provides evidence that the roof	,	Y
Energy & carbon ef	C1: Energy efficiency	Mind parent or extension Mind parent Mind par	DG57.14 Mandatory	DAB c15 GHG Emissions Reduction	As built mechanical drawing showing location of roof ventilators if installed	¥	Edmonds Ecopower Hybrid Roof VietElators Installed	As Built Mechanical Drawings Mechanical Equipment Schedule	Architectural plans Mechanical Plans	As Built Mechanical Drawings Mechanical Equipment Schedule				Mechanical drawings and schedules provided outlining roof ventilator control via PLC control. However, design puide 57.14 outline requirement for a suitch mechanism. Please provide explanation on how the design meets the requirement.		As per comment above.	As per previous comment	requirements under DGGS.16.		
Energy& carbon ef	C1: Energy efficiency	Veeblation is anathry space invalue at decidation than that required by building regulations in regulations in regulations the regulations to disperse adours and <i>for</i> humding. - Orose within the bit and where possible. - Previde machinal and eventiations to a Disubit for service stress as agregated).	on, DGDS.04 DGDS.16 Mandatory	DAEc13 GHG Emissions Reduction	As built mechanical drawings demonstrating ventilation has been installed as required.	¥	Ventilation is provided in all amenities to meet code. Where this can not be met with natural ventilation, mechanical ventilation is provided	Mechanical Drawings Mechanical Equipment schedule Architectural Drawings	Architectural plans Mechanical Plans	As Bult Mechanical Drawings Mechanical Equipment schedule As Bult Architectural Drawings		Tollet vertilation shown in mechanical drawings and schedules					Mechanical as built reviewed		Y	¥
Energy&carbon ECC	C1: Energy efficiency C1: Energy	Vertilation in storage spaces -Permanent air vertilation openings are to be provided (without compromising security), to prevent concentration of odsurs. Vertilation is permanent learning spaces and Blavies Were lossibly Joursch.	DGDS.05 Mandatory	DAE c15 GHG Emissions Reduction	As built mechanical drawings demonstrating ventilation has been installed as required. As built drawings demonstrating celling/wall fans have been installed as	Y	Grilles installed in doors in doors as make-up air, exhaust fans keep space under negstoe pressure Only as required, depending on space type and anticipated storage material	Mechanical Drawings Architectural Drawings Dischrical Drawings	Architectural plans Mechanical Plans Discritical Plans	As Bult Mechanical Drawings As Bult Architectural Drawings As Bult Decirical Drawings		Vestilation system shown in mechanical drawings					Mechanical as built reviewed		¥ .	¥
Energy&corbon fil	El: Drergy efficiency efficiency efficiency - Ca		DCS Mandatory	DAIL:15 GHE Environ Reflection	Control of the second of	v v	Langtons are to be product to althorney area and torsets Control segments to be rotable and an entropy area and to enable Control segments to be rotable and an enable and the enable Control segment to be rotable and the enable of the enable	Contract Densing Methods of Opener Cahedra Methods of Opener Methods of Opener Methods of Seal	Extra Oraclo Bestra Oraclo Control Factoria Control Paral Control Control Paral Control And Control Paral Control Paral Control Paral Control Parad Parad Paral Pa	A bild-childrack/cpproved.chable		uting for yoken's reclarity drawings					An deal backward Downey a solid An deal backward Downey a solid An deal Colonesce and the backward Read and the solid New Solid Colonesce and the solid Solid Colonesce and the solid Colonesce Solid Colonesce and the solid Colonesce and the solid Colonesce Solid Colonesce and the solid Colonesce and the solid Colonesce Solid Colonesce and the solid Colonesce	A bit dweg nod still be.	V Underto optio and control locaring apper for solecut GMA elevation undertog de appenden of the system in magnetic (CQ) service. ACODE Accounted a catalement ten inspection (CQ) and the analysis which control activity of the system and the supported of the system in the shared of complete and the spectrum. These spectra bits are not to shared as complete in	Y Etaement from there yield before and more students and an execution of provided and an experiment

PROJECT: Theme & objectiv from SINSW's Sustainable Schoo Infrastructure	PCPS	Socializability initiatives / requirements from the USG This is an output of from the relevent CISE. For full requirements refer to thips ()(edg dot rue adu au)/webcome	EFSG EFSG type	Crossover with Green Star	Standard evidence to demonstrate compliance	Has this been implemented in the project? Y or N	Cantractor's 550 consultant comments	Actual evidence proposed This evidence needs to show that the requirement from column C has teen met	Design stage - evidence proposed	As Built stage - Additional exidence proposed	Decume station check is the exidence proposed accepted? Y or N	Independent (he class of 1	Stantec's response 04/06/2022	Indexendent the sharts?	Stanter:'s response 99/10/2021	Indexendent (Participiet 2	As -built check	Responses received Bej08/2022 + 54/09/2022	An burit check TBAAL DC/10/2022	An built check TINAL 32/92/2023
Energy & carbon	EC1: Energy efficiency	Any time and engineers in the bandhown in the standard and the standa	DG16.10 DG64.10 DG66.02	DM of Bulling Information	1.(A bit dowing mining of opposed some arragements for antistensor 2. Tolong some di 4. Holeschander 5. Holeschander 3. Judite gan gade	¥	Dournehistus el la provide far haubur, curit-rang fad martin de la provide far provide far provide el grans en la la degrada de la song Al grans en la la degrada de la della song organgentationes.	A ball draing. Speaker navak Vandakarn servick av daliget navn Radig ovri gab		A built dramp A built dramp De retro mank Mandem en argente et all Rading on 1 galls				Section / Report and Thongs Modeling protocid an antime for design goods (2.5) We analyze and the good section war to go de.	Barles of myseukhiller underkängelse status. Datase af die myseukhille CC and all begrechtet au shalt anderson	 Noted, Peterang pandle relevant as built, desparations and may complement to the experiment. 	CMM resolution for electron and metapolic analysis in the second second production of a single (pure V calor an energical control and second second analysis is to gradient and second second metapolic and a single control and metapolic and metapolic and metapolic and metapolic and metapolic and metapoli	The proof and provide the D-and DOLL 20 integrities which are determined on the D-and DOLL 20 integrities which are any en- cession of the provide of the D-ADD and the provide which are an effective of the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide which are any encoded on the D-ADD and the provide on the D-ADD and the D-ADD and the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D-ADD and the D-ADD and the D-ADD and the second of the D-ADD and the D	y GMJ advantum provide factor in our and reformation software characteristic and a software factor in the software and a software provide the software and a software and a software and the software and the software and a software in the software and a software. A some of a software in the software and software, the software is a software in the software and software. A some of a software in the software is a software in the software is a software in the software in the software in the software is a software. A some of a software in the software is a software in the software is a software in the software is a software in the software is a software in the software is a software in the software is a software in the software is a software in the software is a software is a software in the software is a software is a software in the software in the software is a software in the software in the software in the software in the software is a software in the software in	v EAM of environment of the environment of the environment and the environment for the environment of the environment of the environment for the e
		- Cettal a reasonable maximum program - Adviser Die user of the most nutstalle replacements for consumables							Energy Modeling Report	As Installed PV Drawings	Aso requires additional information:									
Energy & carbon	EC2: Scope 1 & 2 emissions	A prid connection takes PP reprint much to installed. Where feasible, PV reprint shall be installed to other an such of the decisition consumed by the school as is practicable Integra strange Extern variation an energy strange of end or sole energy much installed and the school as	DG2.3.4 DG55 Mandatory	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand Reduction	1) As installed drawings of FV system 2) Energy modeling report showing renewable energy generation	¥	40 kW PV System has been allowed for in the design provided.	Energy Modeling Report As Installed PV Drawings	Architectal Drawings PV Assessment	PV databets PV modeling report outlining PV annual generation	PV datasheets PV modeling report outlining PV annual generation	PV drawings provided					As built PV information reviewed		*	Y
Energy & carbon	EC2: Scope 1 & 2 emissions	Alting and all comparison of instances in the second methods in the second method. The second methods are also also also also also also also also	DG65.8.3 Mendatory	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand Reduction	1) As installed drawings of battary storage system	N	Na hatary of uzvelaké prif uzpřy in ses- Beckup skrage for poser roti justifiet and unfensible in E yser paylack in today's market	N/A	N/A.											
Energy & carbon	EC2: Scope 1 & 2 emissions	Norm The second	DG55 Mandatory	DAB c15 GHG Emissions Reduction	1) if reverse cycle ar conditioning is included, confirmation that gas haden are out installed, OR 2) Ordenec that the gas heaters included are energy efficient	¥	No gas basters in class rooms - full conditioned. Reduct Gas Tabe Heaters on Califing In Hall for heating only	Mechanical Drawings Mechanical Equipment schedule	NA	As Balt Mechanical Drawings Mechanical Equipment schedule		No gas beaters schemen in the mechanical drawings.	The hot water with have an LTR of 6.2 and the gas room				Mechanical drawings reviewed	The project complies with Credit DCDLD9 Brough the	×	×
Energy & carbon	EC2: Scope 1 & 2 emissions	 Not water and tempend water generation for schools should be carefully considered to ensure that a Whole of Life assessment is understaten to minima life cycle care. Environmentally friendly options such as solar heating (if wordal resistant), high efficiency instantaneous gas and heat pumps are performed anters sources to minimize some commention. 	DG53.09 Mandatory	DAB c15 GHG Emissions Reduction	WOL cost assessment for hot water vystems Hydraulic drawings/schematics showing installed DHW systems	¥	Gas use limited on site (hot water only used for staff, kitchen, castenen, sick hay and special deducation) No solar hot water system proposed - efficient natural gas only Transport nion provided at Tamfor	Hydraulic Drawings		As Built Hydrauls Orawings		Gas instantaneous shown in the hydraulic drawing and identified in the spec. Need confirmation if these water heaters are efficient	heaters have an EER of 4.8. Refer to updated evidence provided in the EFSG EC2-DG530 Water Heaters	Efficiency information of hot water units (Rinnal models) provided.			Please provide confirmation on the actual installed hot water units.	following agreed documentation: - Hydraulic As Bullts In addition, the OBM manulas and Water heaters datasheets were provided	v	¥
Energy & carbon	emissions	Transport glan	N/A N/A	DAB c17 Sustainable Tramport		Y	Green Travelplan to be provided post PC in line with programme Bicycle storage to be provided in line with IFSG and SINGW	Travel Plan		Simeline)										
Energy & carbon	emissions	Provide 1 space for every 20 students to AS380.3 standard Protoide 1 space for every 20 students to AS380.3 standard Protoide and the standard st	363324.86 TEC	DAB c17 Sustainable Transport		¥	Sandards. 16 racks will be provided at the school site.	Architectural Drawings	Architectural Deswings			Bicycle storage shown in the landscaping draw		Most fadures and fitting selections are efficient (in comparison to a standard practic building under a fador and family and fatting the second secon			Architectural as built reviewed		v	×
Water	w 2. Water use efficiency	Macandian productions: The configuration of the Advance of Advances Advances - Adva	DG53.01 Mandatory	DAB c18 Potoble Water	 Screene et miture and mining isocare type et unions and type installed are as required 	¥	Non-Putable water line and rainwater throughout for non-potable sources (MC's, Ulrinah, Irrigation)	A suit->44 Schular HydraulicSchematics	i Had Schotzar	Al aut i via scriedu Nydradi: Schenatics				Building all behavior by division for a point in the first scheduling provided. The provided The provision of a rainwater tank who assists to potable water conservation.	Prese refer to the updated evidence provided in DC53.02 and	Datasheet of updated fatures and fittings	flow rates/WEIS rating of the installed flowns and fittings.	•	No mpions provide non-entrie with the three down in the basis Augular. A 1 second for Fature efficiency also satisfies this requirement Y Data shares and certificates sylfreed for TAPCD, TAPOA, StreetJ/StCD1 in DR	No regional processo processo non-ver var toss the regional do book au/cloud A. Secon for factors efficiency duo saturbas that regionement V Data sheets and certification systemfor 14003, 13006, 504002/20000 in DR
Water	W1: Water use efficiency	Bond Courter for the Cour	DG53.02 DG2.4.1 Mandatory	DAB c181.1 Petable Water - Santary Pature Efficiency	W115/Midenflark ratios, demonstrating compliance and identifying those with flow restrictors and inved flow.	¥	Low flow fishers and fittings provided throughout in line with USG	WELS certificates As Built FF&E Schedule	WELS om Hinden FF&E Schedule	WELS certification As Built FFEE Schedule			_	do not comply with the requirement of the design guide as _TAPOL_SHOOL, SHARCE.	Updated sanitary schedule to be provided at as built.	Please provide updated schedule in the as built	flow rate products rating of the installer flow rate of fittings.	Proseided, refer to: Pr25-875C, As Built Package, 001(00531(00531.02	submission paskage 1 received 15/09/2012 - OGLO 2012/posted complexe anathrapitage". Action: Recommend MIRIS Technical Informance Sheef 4 schedule be updated to reflect An Bulk selections for future maintenance replacements.	submission package 1 review 15,09(2011 - 0503 Of Diposited compliant samary tings". Action: Recommend MBS Technical Informers Street schedule be updated to reflect As Built safections for Josure maintenance reglacements.
Water	W1: Water use efficiency	hýchtal se vníčen shodé: - Support nationide riskip provingi val ved rostverplan and veste production. - Jegrarpolitalý text any trade veste to ensure ninimal enformental impact - Bez accelad e and acricadals - vest provinska vel híni knjiže se o nachod u evak om nationanso a bie og parformed - Die products with a long life (gan – many hydraulic anvices ave concessie) to durability is exential	DG51.01 Mandatory	DAB c18 Potable Water	 Hydraulic report showing usataivability initiatives implemented to reduce potable water consumption As built drawings showing trade water arrestors 	¥	Trade waste collected by Grease Arrestor	Hydraulic Schematics Hydraulic drawings Hydraulic report	Hydraulic report	As Built Hydraulic Schematics As Built Hydraulic drawings		Nydraulic services information provided in th specification	-				As built hydraulics reviewed		*	×
Water	W1: Water use efficiency	Water was benefining In addition to the main water month for the share share water and the datawarg. - Mater improvements and the share and t	0G53.04 Mandatory		1) As built hydraulic drawings	¥	Metering will be provided where beneficial to provide relevant information to SINOV and facilities management. Meterin includer - Canteen Supply - Ablution amention - Main gate meter	Landscape / Irrigation Drawings Hydraulic Drawings		As Built Landscape / Intigation Drawings As Built Hydraulic Drawings		Water meters shown in the hydraulic drawing	B -				Please provide a mark-up of the wate meters. Only a canteen water meter has been identified in the as built drawing.	Provided, refer to: PCPS-dFSG_Ao Built Package_001(DGS3(DGS3.04	×	*
Water	W2 – Proportion of potable vs non- potable water	Any own reservation of the server server Restanced careforcian Restanced Restanced careforcian Restanced careforcian Restan	DG53.14 DG2.4.2 Mandatory DG53.01	DAB c188.2 Rainwater Reuse	1) As built hydraulic drawings showing task connection to end uses and capacity	¥	2014. Rainwater tank to be installed, serving non-potable sources (WC's and irrigation).	Hydrauli: Schematics Hydraulic drawings		Hydraulic Schematics As Built Hydraulic drawings		Rainwater tank shown in the hydraulic drawk and specified in the specification	14 C				Hydraulic as built reviewed		v	Y
Water	W2 – Proportion of potable vs non- potable water	Fire system water rease Where schools are required to install a sprinkler system for fire safety, it is recommended to install a closed loop system to capture and reuse fire system testing and maintenance water, or by using an alternative non-potable water source.	0G2.4.2 Optional	DAB c188.5 Fire System Test Water	Fire engineering report	N/A	No Sprinkler system installed	N/A						It is noted that this is a mandatory requirement as per the DSG website. Please confirm if a sprinkler system is required for this development.	Confirmed no sprinkler system is required	Noted.	No update on the as built is required	Confirmed no sprinkler system is required	×	¥.
Water	W2 – Proportion of potable vs non- potable water	Cround water Where ground water is available for use for imposons, requiring should be undertaken with DPIE to determine the suitability of a ground water system.	DG53.03 Mandatory	DAB c18 Potable Water	1. Relevant due diligence report / investigation	N/A	Not applicable	N/A												
Water	W3 – Responsible water discharge	Somwater management Aim to minimite the transportation of toxicants to widerways and other efficite environments, and maintain the existing hydrological regimes.	DG2.4.3 Mandatory	DAB c26 Stormwater	Somwater modeling report showing stormwater pollution and Bows. Ovi//Hydraulic drawing showing management measures. Water sensitive urban design report (if WSUD was use4)	¥	CSD tank and treatment train required to meet local requirements	Steplans Calculation/Modeling Report Chil drawings	Sile plans Calculation/Modelling Report Ovil drawings			Stormwater system cullined in the Stormwate Management Plan	-				As-built documentation showing the civil design is required.	Provided, refer to: 00 General Documents/DR_Dvil Documentation/Dvil As builts	×	×
Water	W3 - Responsible water discharee WM1:	Trade wants Arrestors for sold, grease, plaster and city of adequate spacity must be installed to local wantswater from science laboratories, kitchens, art rooms and canteens as required in DGS2.	DG52 Mandatory	Not covered in Green Star	1) As built drawings showing trade waste arrestors or 2) Letter by Hydraulic Engineer confirming arrestor have been installed as required	¥	Trade waste collected by Grease Arrestor	Hydraulics drawings	Note this is a recommended credit but not required.	As Built Hydraulics drawings Note this is a recommended credit but not required.		Grease arrestor for trade waste outlined in th performance specification					Grease arrestor shown in the as built hydraulic drawing.	t Note this is a recommended credit but not required. Given no	v v	v v
Waste & material	WM1: WM1: Materials selection and use	Envergence of specific and end of the same parameter of deform material indexton Shark of the same (SG) Shark of the same (SG) Shark of the same (SG) Shark of share and share the shark of share and share (SG) Shark of share and share the shark of share and share the share and share (SG) Shark of share and share the shark of share and share the share the share the s	DGD1 All draign guides for selection of materiala and building systems	d 635.40 - Refum an Investment	Lingth and grape for situativation	Y	USE / Green Star visited in where provide and meaningful Gibliotical by Sarvises and architecture in their works to when explorment	FFEE Schedule	completing a formed for LCA.	ampleting a formed bill CA	regine forther discussion.						regularment yet.	empilere filmen fall de Cycle Analysis.	Helder, Ba understanlig is net neurology. Y No supports give houses as of the on gips of to 5001.51 gibbs and alternating the contraction as to the of signature to 5001.51 gibbs are and alternating to contract the the of signature to 5001.51 gibbs are and biblicate.	ministre, filo vaderskrige i se menderey. V Ne regenere gene hover en net file mendere skonskrige for cataloge and an de beste dispersion provide response ander filo skalador.
Waste & material	WM1: Materials selection and use	International In	DGD2.05 Optional	DAB c21 Sustainable Products	Devicemental Product Deduction of graduatic (reduction) Products and the second	¥	Selected to be met throughout as gracical and achievable within the supply chain	Seei producer/ ISO 14001 certificate Confirmation from the Steel Suppler of quartities suppled PVC involor. 4 Serie Practice PVC certificates Cardinaution from Suppler Environmental Product Occasion / Product certificates		Steel producen' 150 14001 enrificate Confirmation from the Steel Supplier of quantities Best Practice PVC Confiliation Confirmation Product Devintions / Product Environment Product Devintions / Product carificates Bill of Quantities	Also requires the following information: Total product cost Cost of all compliant product installed						No information provided for this requirement yet.	Prouided, refer to: PCT-875C, As Buik Puskage, 2013/SGC2/SGC2.25 In addition, plase note this is an Optional requirement under the ETSG	Y Product certifications / EPDs provided for start and PVC.	Y Product conflications / 070ic proceided for shart and PVC
Waste & material	WM1: Materials selection and use	International tensors, - Use only recycled limiter, organized and place limits argumpting parts, - Use only recycled limiter, organized and place limits argumption bases. - All tensors used is the trended place and pressured or trended list the metromous limits in the appropriate lawar flows.	DG2.5.1 Mandatory	DAB c20.2 Responsible Building Materials - Tenber	1. Bediense of chain of custody 2. Bit of quantities	Partial	FIC standard to be met, but Chain of Custody to not be multitained. This is quite articous and does not justify the benefits associated with CuC	List of engineered wood with FSC Architectural Specifications	List of engineered wood with FSC Architectural Specifications Cost of Simber Installed	List of engineered wood with FSC Architectural Specifications Cost of timber installed	Also requires the following information: Cost of timber installed						No information provided for this requirement yet.	Schedule indicates that this credit would only be partially met The project complex though the following documentation: - 800 - Architectural Specification	There is its inference in TGC as other class of castady/source drifts program in either the architectural specification or 800, Specification senterations class 22 ar- ginging in table production ingering? Into instandial remand/ transmission, but in deal of the application or the cartification regards in their castady and deal and the application or the cartification regards in the complete tables catter without and 11% or otherwork that is used as completed to the used in the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, castady and the closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, can be closed as completed to the castady of the project. Once applied this time, castady and the closed as completed to the castady of the project. Once applied the time castady applied to the castady applied to the project. The closed as a completed to the castady applied to the castady ap	V Exdence of compliance by suppler (Parkelo Group) through PDE coarch results provided and unreplate.
Waste & material	WM2: Materials selection and use	Bath for dissurably Consider the use of building materials which are adde to be defausted for for suc, in surpicetion with considerations for the addition and monocid of accommodition over thes.	DGD2.07 Mandatory	,		¥	Internal walk are non-load bearing for fature field/bity. Concrete Tas high after-market value for margined concrete. Internal loose Forman designed as standard per SIXXVIII op een maximum opportunit for histor VIII. La constants to charty, etc. Column locations placed to allow fisture field/bity in space use.	ж									No information provided for this requirement yet.	No agreed documentation required. Comment made within shedule to provide hrief explanation on compliance. A confirmation latter from Architect adjes structural consultant would suffice this. Please advise if you require assistance from STN to prepare a template — Lieter from NBRS provided 14/09/2022	Y Letter from NBIS solars rease of AC floor and columns, maximum column specified for internal subject fields/by and (globus) respectively in control wall constructions for sale abstration. We note rease apportunity for KL internal however it can be separated into site and concrete elements for much interplay and particular proded we as aggregate/RL.	Y Letter from NBIG tester, wave of RC floor and columns, maximum column spacing for internal layor, finability and lightwayfer externed wall constructions for ease of <i>alteration</i> . We note mass apportunity for RC is immery however it can be separated into sete and concrete elements for make repeting and potential degraded us as aggregate/RE.
Waste & material	WM1: Materials selection and use	Cororie - Our materials complying with AG based on the Worked Ulle approach to materials selectors On on ta us breactic air addentis in control referent trains By ash is a manufacturing hyproduct that can be used as a some trained procement that should limited to a maximum of 20% by weight of control contrart.	DG21.02 Mandatory	DAB c198.1	Structural specifications and drawings Structural Engineer's report showing Scienient replacement	¥	Proposed up to 20% flysch for conventionally reinforced elements and 10% for suspended PT slabs.	Reduction in cementitious material calculation Structural Specifications		Reduction in comentitious material calculation Structural Specifications							No information provided for this requirement yet.	Provided, please refer to: PCPS-07556_As Built Package_001(00 General Documents\09_Head Contractor\55eel and Concrete	Y 10% by mass fly ach content indicated by TEC mix design submission.	Y 10% by mass fly ash content indicated by TEC mix design submission.
Waste & material	Resource efficient school operations	Operational wate Consider opportunities for re-use and recycling of materials in the operation of the facilities	DGD2.07 Mandatory	048 cE Operational Waste	Operational waste management plan Operational waste reports showing diversion rates	¥	Refer operational Waste Management Plan as part of Tender in line with BCC requirements	Operational Waste Management Plan Architectural Plans showing waste room		Operational Waste Management Plan Architectural Plans showing waste room		Reuse and recycling opportunities included in t worke management plan	*				No update on the as built is required	8	× ·	Y Y
Waste & material	Resource efficient school operations	Building facility Position structural members considering the future finelding of the structure. Avoid ad hoc plucing of columns internally, giving preference to uniformity in layout. Design all internal walk as non-load basing to enable future file/bilty.	DG21.1.16 Mandatory	Not covered in Green Star	As built drawings or statement by relevant professional	¥	Architectural and Structural design should be optimised to ensure design is sensible and flexible	Structural Orawings		As Built Structural Drawings							No information provided for this requirement yet.	Provided by RCC separately	Structural drawings demonstrateur/formity of column placement and placement of non-bad-bearing partitions. Letter from NBZS in response to DG20.20 notes: reasivum column spacing for internal lanced flexibility.	Structural drawings demonstrateuraliternity of column placement and placement of non-base-bearing partitions. Letter from NBRS in response to DOSD 327 notes maximum column spacing for internal layout finability.
Waste & material	Responsible management of waste	Construction wate Consider opportunities for re-use and neuroimp of materials in the construction phase <u>Consider</u> opportunities for re-use and neuroim of transform the construction phase a water threads are much able included in it does are related to a state and reservoir of transform the construction of states and reservoir does and a water to be a state included in it does are related to a state and reservoir of transform the construction of states and reservoir does and a water to be a state of the construction of transform the construction of states and reservoir does and a state of transform to a state of trans	DG02.07 Mandatory	DAB c22 Construction and Demolition Waste	Construction waste reports showing percentage of waste re-used and recycled (diverted from landfill)	Y	[BON] target set by Contractor	Waste Report from Waste contractor		Waats wapor non wasse consistor Waate contractor and waste processing facilities' Compliance Verification Summary or Disclosure Statement	Allo requires the following information: Wate contractor and wate proceeding facilities' Compliance Verification Summary or Disclosure Statement	Reuse and recycling opportunities included in t wate management plan					No update on the as built is required	8	v	Y
Waste & material	WM3 - Responsible management of waste	maligite water stream, mutufate - general schlabb, - someging introduced - somegan introduced - some result, red - gene result. - gene result.	DGD2.07 Mandatory	DAB c8 Operational Waste	As-built drawing showing location of waste storage area	¥	Refer Architectural drawings for information on water storage spice. Also -refer water magement plus by SMEC to confirm size of storage area.	Operational Winste Management Plan Architectural Plans showing waster room	Operational Waste Management Plan	Architectural Plans showing waste room		Waste transfer and waste storage not include the Waste Management Par. Please confirm Information related to these items.	SINGX continued the current WWP to be sufficient at this in stage. Refer to correspondence evidence provided in the 87%G WM DG22.07	Current WMP by SMEC does not include information on safe weater transfer paths, which excess and sufficient provision of water storage.	SINGW confirmed the current WMMP to be sufficient at this stage. Refer to correspondence evidence provided in DGGD 20	WSP acknowledges that SNGW confirms the current WMP is sufficient. For best practice WMP, it is still recommended that the items highlighted is WSP's previous comment should be addressed.	No update on the as built is required		v	v
Place	P1 – Green Infrastructure	Environmental conservation education The design of the fucilities provide unique and valuable environmental answervation kaving coportunities and effective environmental modeling to the wider community.	DGD2.06 Mandatory		Statement / Report by qualified ecologist	¥	Environmental sustainability and ecology maintained around the site, primarily in the site's blodwarulty retention area Nexting boxes are provided for given carridor Numerous trees retained on site	Ecological Report Landscape Plans Site Photos	Ecological Report Landscape Plans Site Photos			Ecological assessment report provided					No update on the as built is required	8	*	×
Place	P1 – Green Infrastructure	Productive landscope Consider Including opportunities for development of community groups for this to occur.	DGD2.06 Optional	GSC c14.2 Local Food Production	Site plan demonstrating location and size of community gurden	¥	In a concort a concept na been designed with a strete or vegge Planter. These are for devicement and education, as well as developed to encourage community engagement. Native landscape retained as far as possible, to be meaningful and responsible in it's design.	Landscape Drawings Landscape Statement Architectural drawings	As Built Landscape Drawings As Built Architectural drawings	As Builts		Community garden shown in the arcadia drawings					As built landscaping drawing reviewes	4	v	¥.
Place	P1 – Green Infrastructure	For developments with driving water cachenet zers, a water cycle maximent tudy is be included with the Development Application & Gancian Facility development involving - Agriculture facilities - Gancian and Heatmer are an chomes - Severage systems or works (molding backage severage training bach) - Gancian are works involving the discaled of worked should - Gancian are works involving the di	DG51.07 Mandatory	GSC c24 Integrated Water Cycle	Water cycle management study Widence that recommendations in the study have been followed / implemented	N/A	Not in drinking water catchment	N/A												
Place	92 – Community & heritage connections	Bit investigations for given and/or of a constantly constantion. The following distribution of the constant of the constantiation of the constant of the cons	DGD3.02 Negotiable	GSC s12 Culture, Nertage and Identity DAB 24.2 Contamination and Hazardoux Materials	1) Educating reports (Jonary directing of (Seara Mohly Include economous direction for the first dama (searant seque) 2) Orderez directoria (sear economous filter), seara transmissions have been implemented (sed researd.	N	The is a regatable indicise along through efforts have been understand is achieve the: "Indigeness references how load downwelly incorporated as the "Indigeness dependences and provide and cannot the use, "Engeneense spectrum and provide and the state of the spectrum and the state of the spectrum and the state "Rest bitters is advaced down."	Report for further development stage basives care for reports and works	Report for further development stage business cave for reports and works	r				It is noted that this is a mandatory requirement as per the UTSC website. Ecological Report, Bachfer Report, PAZMAT Report and Infrastructure Report provided.			No update on the as built is required			·
Рася	P2 – Community & heritage connections	Sense of place The laboration place provides the sense of the school. - Alter and a school place of the school place - A school place the school place of the school place - A school place the school place of the school place - A school place the school place of the school place - A school place the school place of the school place of the school place - A school place the school place of the school place	DG90.04 TBC	Not covered in Green Star	1) Landscape design report 2) Landscape daweings	¥	Incorporated and toherwet in design from architectural and lumbracep perspective Retaining numerous plants on site Rativation for the second second Rativative tank for integration	Landscope design report Landscope drawings Hydraulic Drawings	Landscape design report	As built Landscape drawings As built indicasic Drawings		Design principles not included in the landscap specification	Refere to updated evidence provided in the ETSG P2-DG80. In Sense of Place Evidence provided: - 100% Schematic Design Tasse, Arcadia	A - Design principles intorporated in the 100X Schematic Design Taxee by Arcadia.			No update on the as built is required		×	×
Place	P2 - Community & beritage connections	Constraints for different set and provide the set of th	0616.08 TBC	DAB c308 Community Benefits	Lookmarken by the Architect that divest access has been provided to open space and any other decision that could be have dust the commany. 2) At lat of community energyment, at hilds on understand to develop a community leading to strain access the strain or constrainty leaded 2) Plance leady sublicing how the automass from the counting by leading 4) Direct on times are made and allowed allowed and only one of the 4) Direct on times are made and allowed allowed and on the or	¥	There is access to open play space, hall and gens. Direct access to acrieve facilities and rand access to hall. Design allows for community use	Architectural drawings		As bull Architectural drawings		Open play space appears to be publicly accessib but please confirm if hals, and gyms are too	Opportunity for community shared use facilities is available the communities and public forecast. Alters to updated evidence provided in the EFSG P2-DG261 Community Use of Facilities. Didence provided. - Shararmenti Impact Statement, COPS	A per the 855 DO25.08 - Devicemental I papet Statement (D75 not resolved in the Correct package.	Refere evidence provided in DG16.08 Environmental impact Ratemant_COPS	Community use of facilities outlines in the ELS Chapter 4.15.	No update on the as built is required		·	
Place	P2 - Community & heritage connections	Republica altor par	N/A N/A	DAIL c3DD Reconciliation Action Plan	1) Pid ⁴ 's Reconciliation Action Plen 2) Endence of the project's relationship with the RAP, e.g. actions implemented in free with RAP, etc.	¥	SINGW has common NAP. Coordination actions have been understatem with local community and engagement. Direct / Indexs specific actions of the contract Name - Nin in cost and YSC regularment, or N in cottact demonstrating 4 Dar Green Start Equivalency	Recordition Action Flan Report Datach fram SUGRY, Janual Report or website RCC Supporting data from supply chain	Reconclution Action Plan Report Exidence of project i nole on SAP Extracts from SINGAY Annual Report or website RCCS opporting docs from supply chain			NAP provided but no connection between the proposed development and the NAP has been identified.	Plasa nife to exidence provided through 0555 P2- Recordination Action Plan (MAT) folder: Section 6 2 Darkin jung LAC recommendations (page 22) in the Aborginal Intellige Assessment by RP5	Note cognitization to concated note a available and endorsed by Reconciliation Australia, however, the project does not play a central rele in the delayery of the RRP. An Aborgical Caltural Herstage Assessment Report (PCMR) is also available. At the compliances to be intent of the crudit.	Green Star credit not targeted. Research to a videore a provided through AI documents- Reconciliation Action Plan (MAV) fodar. Sections 2.2 Substage JLLC recommendations (pages 12) in the Azorginal Heritage Assessment by RPS	Noted that Green Star credit is not targeted.	No update on the as built is required			×

PROJ Theme & o from Sil Sustainabi Infrastr Stat	INCT: PCPS abjective INSW's ale School Indicator ructure terev	Southandelling initiatives / requirements from the DSG This is at extract only from the relevent DSG. For full requirements roles to https://doi.now.edu.au/webiane	873G 873G	ype Crossover with Green Star	Standard evidence to demonstrate compliance	Has this been implemented in the project? Y or N	Contractor's ISIP consultant comments	Actual evidence proposed This evidence needs to show that the requirement fro colume C has been neet	m Denign stage - evidence proposed	As Built stage - Additional evidence proposed	Decomentation check In the evidence proposed accepted? Y or N	Indian rule of the chapter (Stantec's response 64/06/2022	Inducedor (Archister) Sentech response (8)(20)2222 Is the project complete at this range?	Indexendent checkedet 2	As dulk check is the project compliant at this stage	Responses received 06/06/2022 + 14/09/2022	An Suffi Check FMA(06/30/2022 Is the project compliant at this stage?	As sufficient FINAL 02/02/2020
Pla	P2- Welcoming learning spaces	Depayting Maximize nutural daylight in all habitable spaces to improve index amonity and creates plasmat environment.	DG2.3.1 Manda	tory DAB c22 Visual Comfort	 Daylight modeling report demonstrating how natural daylight has be maximated in all hobbalds spaces; and A built drawing demonstrating that the model accurately regressent the builting (i.e. window size and faculator; skylights installed; etc.); an 3. Specifications supporting input asset in modeling (e.g. skylight and gins specific 	en GL Y d	Windows located to encourage defuse light to learning areas. Good levels of daylight to be achieved	Daylight modeling report	Daylight modeling report Gazing datasheets (suffixing VLT) Ceiling, walk and floors surface reflectance		Also requires the following information: Giaring datasheets outlining V/T Ceiling, walls and floors surface reflectance	Døylight report demonstrates 42% of space with good døylight.				Architectural as built drawings have been reviewed against the drawings used in the Daylight Report by Stante Immaterial changes between the design thus the Daylight Report is still valid in the As Built.	6	v	Y
Pla	P3 – Welcoming learning spaces	Design between the second seco	n om DG12 DG07.01 Manda	tory DAB c12.0 Gare Reduction	 Onylight given modeling report/ yaw dings you showing direct sening has been excluded an repaired. Deswings supporting topsho of model, showing location of blinds and a other given costs of others. 	nt any Y	Lourne, overhangs and blinds requires to initial to reduce give	Architectural Orawings, including Block Architectural Flams Facada As Suith Savariga FF&E Schedule showing blocks		As Bulk Architectural Drawings, (including Binds) Faqada As Bulk drawings FFBE Schedule showing Binds	0	Confirmation of give reducing measures required	Refere to updated exidence provided in the 675G PI-DG12 Daylight gives control	It's Shadah resolut galang phag pasata Mara Theorem and a standard to the provided at where the status as a mainfart WD may architecturi di wang watevel with the status of the maintenance of the status of the status of the status of the status of the maintenance of the status of the status of the status of the status of the status of the status of the status of the status of the status of the status of th	as built Noted that confirmation of blinds installation be provided during the as built submission	Architectural as built drawings includ dual roller blinds type 02 (BLDD1) as provisioned in Arch Technical Data Sheet FFE Schedules		×	×
Pla	P3- Welconing Isorons	Consider that function is particular the source of the source from the source of	Ingy DG61.03 DG61.03 Manda	tory DAB c11 Lighting Confort	1) Lighting disarings 2) Antonicus di anaropolis 3) Antonicus di anaropolis 3) Antonicus di anaropolis 3) Antonicus di anaropolis 3) Joha pist di anarop 6) Lighting mediding singoni albaning compliant suchemity and UGA	Y	The light timings should be selected as 4000K	Product Data Dates, demonstrating 12-bit LD luminary Landaure Schedule Conformation the contract and runniarie Institution Robus Path shawing compliance with A3 1282.2 for Iv levels and uniformity As Built Lighting Drawings	Product Sata Deets, demonstrating 13-bit UD Junitaires Lumitaire Schedule	Confirmation from the contractor of luminaire installation Italia Pith showing compliance with A5 1002.7 for Italia Pith showing compliance with A5 1002.7 As Bult Lighting Drawings	tar	Lighting requirement specified in the electrical services performance specification				Electrical as built reviewed		·	· ·
Pla	P2- Welcoming Iserning Spaces	Uption and/or Light general hand is a unit of children (and you children) general products and an AG2, Sokiar Min. Marking sequences angle the dance of the strength of the	K ef, DG63.03.02 Mandi Ken	DAILCII.I General Burnhunce an Reduction	Lighting madeling report confirming compliance with required standard and parameters	ά γ	This is a requirement of the electrical S&C sub-contractor	Lighting modeling report Hotics Drawings	Lighting modeling report	instan Drawings				Trighting Stratight by Triching Stratights Scheller Lange State Stratights Scheller Lange Stratights		As-Bull Lighting Drawings reviewed against design and Isolar pitch provided are still applicable.		×	
Pla	P3 – Welcoming Iserning spaces	Darrad zere rights, and an ender a faith and an ender right and an ender an ender an ender and e	(for DG63.08.01 Mands	tory DAB c27.0 Light Pollution to Neigh Bodies	curing 1) As built drawing indicating the location of all external luminations 2) Letter by lighting, designer describing gare prevention measures	¥	CPTED principals require to be met for all outdoor lighting	As Built Outdoor Lighting Drawings		As Built Outdoor Lighting Drawings				Editorial lighting complex with AAC236 and AAC3358 as per bitment (crypter brough by Waters Lighting Comp by Waters demonstratives (Microsoft of etry door and changes in brenk).		Electrical as built reviewed			v
Pla	P3 – Welcoming learning spaces	- Tradition and Alexandre - Tradition and Alexandre - Tradition and Alexandre - Tradition and a second and alexandre 2135666 with logical second and alexandre 2135666 with logical second and alexandre - Tradition and	0606.03 0655.01 Mand 0655.02	tory DAB c14 Thermal Confort	 Marbanizal drawlings shearing MAC system: Installed, or 2) Confirmation from sub-contexture that service has been installed a confirmation of a required and 2) Modeling report behavior geographic MAP is schward. Modeling report bediese in the with methodology disordinary to March and Modeling report bediese in the with methodology disordiary of the thread context are bediese in the with methodology disordiary of the AMP is an installed of the AMP is a schward and provide and the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward and the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of the AMP is an installed of the schward of the AMP is an installed of th	rnd Y tas	Designed to meet DGSS, demonstrates through modelling	Thermal Canfort Report Architectural Tornaings Mechanical Tornaings Gaus data sheets	Thermal Camfort Report Giana data sheeta	As bulk Architectural Drawings (Including R values As bulk Mechanical Drawings	n) Architectural drawings to show E-values achieved.	Thermal conflict report provided							
Pta	P3 - Welcoming Isaring spaces	torget under auf ter sonnt auch auf der auf d	nth DGS5.02 DGS8.06 Mandi amm	DAB c101 Internal Note Lev	 Back, rail, and edited advances on a measurement or got 00211. Backwich to advance on the second secon	02 ¥	Acuatic designed in Genes Ster Zondersh and 0754	Ansata rappi Casalad Dawrys Actasts Performena Taxing Report		Annalit report Databel Draving Annalit: Performance Testing Report		Acoust: assument detailed design-report provided				As-Built Well Type Schedule nutlines assumic rating of earls as fixe 6. However, its housdo the Ascause Assessment Detailed Design Physics to AMPT Consultation for the as such many conferration for the as such many the assumic regularisment.	RCC to obtain a confirmation helier from Acaudic consultert ander Amfrei mit. Thisse alluke if you regime activation from 2015 argument a market letter provided AURI(2022	NOT assist couldn't site come for solution south regionse metter the adjust game.	MP sensiti varianti bite con the nonner statut reparamete met to the adject grave.
Pla	P2 - Welcoming Iserning spaces	Constraints the provide sectors by performance records performance and the performance records performance and the performance records performance and the performance records and the performanc	DG11.05 Mand	fory DAII:10.3 Acoustic Separation	E. Detailed drasting including the excession beings specification of operation when, why proce, behaving detail sections, etc. OI 2. Relevent by a qualified according complexes	the Y	Acoustics designed to Green Star Standards and DSG Generally compliant, with localised departures	Ansantis report Celalited Drawings Acaustis Performance Testing Report		Acatalis report Detailed Strainip Acatalis Performance Testing Report	Credit 10.3 Accounts Separation currently rot beginte in the GS pathway - potential for additional point to be reviewed.	Acoustic assessment detailed design report provided				Ar-Bult Wall Type Schedule outlines acoustic rating of walks as Ru-40. However, It is indiced in the Acoustic Assessment Dealard Design Ripport to RMPT Consulting that most walk are required to have Ru-42. Rease provid confirmation that the as bulk meets the acoustic regularement.	RCC to obtain a conformation letter from Acoustic consultant and of affect this. These advance stypes require assistance from 2015 or program anotation 2015 or program and anotation of the stype of the stype of the anter provided 34/08/2022	T MAT exacts consubst?) Helic confirms that minimum assusts: requirement met for the subject spaces.	Y 807 exolit consultify hitle confirm the minimum accords requirements well for the subject space.
Pla	P3 - Welcoming learning spaces	Exercision Generally rates emission to the environment of the model and exercision that are an additionally set the subject of devicement of the model and exercisions are associated as a subject of a devicement and an additional training and and a subject of the subject of a devicement and an additional training and and additional training and and additional training additional training and additional training additionadditional t	B DG11.04 Optio	ral Not covered in Green Star		¥	Acoustics designed to Green Star Standards and DISG	Acoustic report Acoustic letter confirming requirements		Acoustic report Acoustic letter confirming requirements		Acoustic assessment detailed design report provided				As-Built Wall Type Schedule outlines account rating of walks in Ske 40. However, it is noted in the Accounts Assessment Detailed Design Report BAPT Consulting that most walks are required to have Rise 45. Please provid confirmation that the as built meets the accounts requirement.	RCC to obtain a confirmation letter from Acoustic consultant would will confice this. These adults if you require assistance from 25% to prepare a temptate active provided 34/09/2022	y 8497 accustic consultant's letter conferen that minimum accustic requirement met for the subject spaces.	Y RAPT accusts consultant's letter confirms that minimum accustic requirements met for the subject spaces.
Pla	P3 - Welcoming Isarces spaces	Acceleration of a compared sector and a comp	at of DG11.07 Optic	nal GSP c13 internal Noise Leve	 Commitment by 50 is candidat security part ecceptancy evolution 		Optional initiative in the ETSG. Accounts performance designed to, but no allowance for pool-occupancy evaluation									No information provided for the requirement yet.	This is an Optional initiative in the IFTSG and has been marked in INT targeted. Accounts performance designed to, but no allowance for post-accupancy evaluation	NA	NA
Pla	P3- Welcoming Isarcing spaces	Une VIC entropy enterink All surfare catelings, may define Valatile Opper of Company Optic metal and using a subset, surgers and care and advect, markst web franciss of Committee metals, and and and and advect (10 VIC State for law VIC period on low or to the used	ft DG2.5.2 Mand	tory DAB c11 Indoor Pollutants	Product geofications, contributes, suffry dataments that demonstrate to VSC contents Bill of quantities	tve- Y	Materials selected in line with 1755 & G5 requirements	VGC Datasheets / Test Certificates / Product Certificat Finishes Schedule	WCC Datasheets / Test Certificates / Product Certificat Fishbes Schedule Bill of quantities unless all products comply.	Ce	Bill of quartities unless all products comply.					No information provided for this requirement yet.	Provided, plasae refer to: PCM-0156, As Bulk Package_001(p5602(p5602 05\00_Low VGC	EOQ makes no inferences to the materials listed on the paint, Jathawas- saniany, Jaspan VCC vacing shadawa in addition to induct the products a confirmation of their compliance with two VCC christs in admitted to the complexity of the VCC admitted induction of the listed particular begin of the start admitted with a Mail admitted to the listed particular begins of the start admitted with the Mail admitted to the listed particular large induction and induce the An A Mail admitted to the listed particular large induction and admitted to the start particular coloradion to the listed particular large induction and admitted to the start admitted to the large induction. The admitted that items can be chosed an compliant.	Y Statement provided by NBIS reviewed and accepted by SINCW as well-cleat
Pla	P3 – Welcoming Isarcing spaces	ten translative instanting and translative instanting attended to be a set of the a set	D62.5.2 Manda	tory DAB c13 Indoor Pollutents	Product specifications, certification, scaling desirablents. But demonstrates to formabilitysis contents. Bill of quantities	tre-	Materials selected in line with EPSG & GC requirements	Formuldehyde Test Cartificates / Data Sheets / Produc Certificates FF&E / Probles Schedule	t Formaldehyde Test Cartificatin / Data Sheets / Produc Gestfloatin HT&Z / Frankse Schedule Bill of quartifies unless all products comply.	d	Bit of quantities unless all products comply.					No information provided for this requirement yet.	Prouded, please refer to: PCP-6755, As Bulk Package, <u>001</u> (D023)D020.20104, Formaldehyde	DOD makes no inference to the materials applications listed in the wood formability of tacking indexide. In addition to listing the products a combine of the comparison with linearity of common transition. Additional application of the state of the state of the state of the excitations for the lade opticals to produce and field and the Adu Adu package's DOD. 20. DISG table. Once agind this term can be closed as compliant package's DOD. 20. DISG table.	v v Statement provided by NBIS reviewed and acquired by SNEW on sufficient
Pla	P3 – Welcorning learning spaces	Vertifiation participants Vertifiation participants Vertifiation participants Vertifiation vertification ve	DG57.07 Mand	tory DAB cf. 3 Dehaust or Elimination of F	shares 1. Mechanical drawing and querification showing compliant printing reserventiables	. _v	Educatio provided ant/or printers select with low off-gaming	Mechanical drawings FRE Schedule Mechanical ubsidue includes softwart to printing area	Mechanical drawings FRESchedule Mechanical underdule includes exhaust to printing any			Debauit system provided is printing rooms as pe the mechanical drawings				Mechanical as built reviewed		v	•
Pla	P3 - Welcoming learning spaces	- Provide and analysis of the second se	per of DG57.09 Manda	tory Not covered in Green Star		Y	Mechanical design to ensure ACH rate of 15 is met	Mechanical An-Bulk		Mechanical As-Built		Exhaust system provided in stores as per the mechanical drawings				Mechanical as built reviewed		v	v
Pla	P3- Welcoming Isarring spaces P3- Welcoming	Periodic free environments Schook are designed, combinated end assistander, which can generalize for termine and other periodices. No dhemical periodies and germiode to be used. Preventive treatments to be by physical means and candid design to minima mi	DG2.5.3 Manda	tory Not covered in Green Star	Statement by head contractor that no pesticides or termicides have bee used. 1) WEB Clean School User Saide	r y	SINESH Policy	Policy Green cleaning specification	Policy	Green cleaning specification						No information provided for this requirement yet.	Not provided. We understand a policy should be provided by SINGW. Please advise if you require assistance from STN to prepare a template POPS-675G, As Built Package_001(00 General	Action: Recommend head contractor provide statement conferning compliance with perticide free policy. Once sighted this item can be closed as compliant	• • •
Pla	sce learning spaces P2 - Welcoming learning	Net the claims: Ny travestory must be provided in all schedu high them scheme Phy screening must be provided in all schedu high theory, nuclease and other operation programation, tockeys, and non-wate denote their spectra constraints and theory approximation in the DTGS. Schedu his hould inter well for denote constraints and the DTGS.	0G31.01 Manda	tory Not covered in Green Star	 Green Cleaning specifications An-built drawings showing fly screening has been provided as required 	a v	Per since users cannot you be a substitute of the substituteoo of the substit of the substituteooo of	Compared with an approved creatment works Green Building Cound (WGSC) member rating tool Architectural drawings showing By screening in 6750 designated areas	 Architectural drawings showing By screening in EFSG designated areas. 	Compared with an approved method work Green Building Counci (WGBC) member rating to	e el	Ry screens not clearly shown in architectural elevation drawings.	Refer to Window schedule within EFSG P3-DG31.01 - Fily free indoors	Figureans shear is the athebut and door schedule by RC Cara & Russian		requirement yet.	Documents 12, SakOW Documentation DA: School Gale Ganning D4: Web clean School user audie	uom documents agroto, we understand als operational given calance gains to implemented by the school should also be in effect.	 actin accuments agreed, we are enternable an operational green cleaning pain to be implemented by the school should also be in effect.
Pta	P3- Welcoming Iserning spaces	Control to the second sec	ne DGS5.02 Mandi	nery DAil di Indoor Ar Quelly	Machanal it are prod quadration Education constrained append	Pertial	C22 monthing spatial and the backward in the analysis of the spatial spatiae spatial spatiae spatial spatiae spatial s	i Mehanial Draing Mehanial Gujumet shekki		As built Mashmint Drashing Mediantical Engineeric schedule.		CC2 uman shaw to natural drawing.				As both Mechanical Drawings solid metrics and Color and a solid solid Means are involved and with or metric have here involved and with or metric solid metrics and and and and and solid metrics and and and and solid metrics and and and and and and and solid metrics and and and and and and and and and solid metrics and	lann a dao 9555 A Sulf Grang shead saliy na.	And drawy & Calutor C.J. Strateg. (Docum), Salary December of Calutor D.S.	¹ Maximum from foreign to Service survivous probability and survivous transmissioning probability of surgerial.
Pla	P3 - Welcoming learning spaces	Example a conservation Exhibit a low of a conservation of conservatio	DGD2.05 Manda	DAB-c21 Ecological Value fory GSC c29 Ecological Value (incl Biod Enhancement)	1) Bothwarky or enripsical answerse / boof firms and factors survey 2) Bothwarky meansprint plan factoriting semantin for the conservation and protection of throateness proteins or communities, bothwarky enhancement, these protection, etc. 3) External communities from the communities identified, and enhance endangered special, recollique communities identified, preserve or re-activably naive.	Y Ion Y Ct D	Head-Contractor and Landscape to comment	Ecological assessment report Plant species list	Ecological assessment report Plant species list			Eological assessment report provided				No update on the as built is required		v	×
Ра	P3 - Welcoming Ispaces	Exercise Arrow hollow new reserves the hole of the second relation in the other of the second relation of	nts DG19.01 DG25.14 Manda	dory DAB 300 Universal design	3) Accessibility plan 2) As-built derange or other exidence demonstrating that intrinsion infranced accessibility requirements have been provided for underange carristicm, proget. 2) Photographic or other exidence of sprage installed	d y	Design in line with Accessibility report	Accessibility plan Hearing augmentation system design Architectural drawings Photographic Evidence	Accessibility plan Hearing augmentation system design	As built Architectural drawings Photographic Exidence	Currently not included in the GS pathway. Potential for additional innovation point.	Acons deign assessment report provided				No update on the as built is required		×	·
Pla	P2- Welcoming learning spaces	Weather protection Circulation areas provided between administrative, staff and all induced spaces (seepid agriculture), should be protected from use, n and underscattered and underscattered and underscattered and underscattered and underscattered and underscattered. Open play space Open play space Open play space Underscattered and underscattered and underscattered and underscattered and under scattered and underscattered and unders	ain DGDB.DS Manda	fory Not covered in Green Star	As built drawings showing circulation areas are protected as required	Y Y	Inherent in design	Architectural drawing: showing covered area between admin, staff and student spaces	n 	Architectural drawings showing covered area betwee admin, staff and student spaces	***	Architectural drawings show circulation areas are weatherproofed				Architectural as built reviewed		v	¥.
Pla	P3 – Welcorning Isearcing spaces	any pixel of - Reading from the - Control Solary and the - Control Solary and the - Solary Solary Control Solary (Control Solary (Cont	DG10.03 Mand	tory Not covered in Green Star	Plan view disectop: showing provision of open space	Y	Informat in design	Architectural drawings showing open play space		As bulk Architectural drawings showing open pla space	×	Achtectural dirawing shows open play speces				Architectural as built reviewed		×	•
Pla	P2 - Welcoming Isoaces P2 -	completed project must not be less than the existing of par student currently on the site.	N/A N/	4 GSI c Amenity Space	1] Extracts from the EFSG requirements for staff rooms 2) (Vidence of staff room delivered accordingly 1) Research report behind Healthe Centeen Policy	Y	Provided in line with EPSG and School requirement	Architectural drawings		As built Architectural drawings	Currently not included in the GS pathway. Potential for additional innovation point.	Architectural drawings show staff room				Architectural as built reviewed		Y	¥.
Pla Pla	nce Welconing Jacobie spaces P2 Welconing spaces	Reality existing any Section of the sectio	N/A N/ di di di di di di di di di di	Dial (20) integrating theory Don't	2 Extension that packs institute that them the manufacture of the schular under assessment. 1. Short report destring a direct spin short package of all by traditionality and the pack pack programmers in SCI. The Band Band State Sci. 1. Short report destring all destring the schular systems in SCI. The Band Band Sci. 1. Short report destring the Schular systems in SCI. The Band Band Sci. 1. Short report destring the Schular systems in SCI. The Band Band Sci.	* *	SHOR Seep dense id a contractor ten.	Nor- nd adapt taan Solog ist assumed Repetitually of a figure of the Repetitually of a figure of the Repetitual of the Solo of the Solo of the Solo of the Repetitual of the Solo of the S		Soloy na anazona Regaritativing unity by samp income Surgerind / Sport if by band unitativ				Notation and enterland discontine, model for single galarities 22.3, however, phonor specific enterlands and service phonore in the strategies and service and service and service and service phonore in the strategies and service and s	forge distant	No of consists provided for the registration of p.	Provided, planar where the PROF of RC, a Much Hange, PCI (SCH 60044.00 Much Hange Ha	Y the encourse that adding risk associated and the socialization of the analysis of the socialization of the social sectors of the analysis of the social sectors of the analysis of the social sectors of the social sector	 We receive that shelp it is a constant to be a solution of a build security servers derive. We such server will be a constant or while a derive the solution open of the two of security.
Pla	P3 - Welcoming learning spaces	House of the second and the second and the second and the second at	tic DG51.09 DG53.11 Manda	fory DAB c28 Microbial Control	 Letter by hydraulic engineer confirming hot water is stored above 65 d and that valves comply with code of practice. 	fing y	No water-based heat rejection	Mechanical drawing Mechanical schedule Hydraulic drawing Wydraulic schedule Letter by hydraulic engineer confirming hot water is stored above 65 deg and that valves comply with cod	Mechanical drawing Mechanical schedule Nychaulic drawing Nychaulic schedule Letter by hydraulic schedule Letter by hydraulic schedule a stored abowe GC dag and that valves comply with cod of practics	As Builts		Nydraulic specification outlines hot water storage to be 65 degrees				Please provide confirmation that the requirement has been met in the as built.	Provided, please refer to: PCVS-9556, As Built Package, 001(p053)(p053.1) This should be suffice. If a separate letter template is required please achiest if our require assistance from STN to prepare a simplate	Y Confirmation letter in final DG33.11 package lighted	Y Confirmation letter in Fraid DGS3.11 package sighted
Pla	P3 – Welcorring learning spaces	isority Safey in Serge and One-Prevention Through Swammer Michael (no 17712) provide an site bioingkeensist in project planning at Advice in the density and and an and an advice site bioingkeensist in project planning CCVV system an engineer for ware information where indicated the Name and System Rectional Data table, including - Rectaency density - Rectaency density	95. DG14.10 DG65.08 DG65.10	tory GSC c15 Safe Places	 Other risk assessment or explositent Extense of designing such crites principles implemented Excertly carriers plans, schedules, and fram by Schessil Security Ortil SSI specification and extenses of input on project specification 	e v	Schools assuring unit report has been completed for the site. Security requirements have been contrained by the GoX 2021. The report documents, include the drawing schooling CCV	CCTV design and installation to different areas (lbrary uick bay and cfried) CPTLD report	y, CCV design and installation to different areas (Borar) sick bay and direct O'TED report	γ.				Solvari Seculty Unit Security System Includions Collibera and Specification provided.		No update in the as built is required.		·	· ·

PROJEC	PCPS										Documentation check	Independent checkpoint 1		Independent checkpoint 2	Independent checkpoint 3	As built check		An-built check FINAL 06/10/2022	
Theme & ob from SINS Sustainable Infrastruc Strateg	ctive i's chool Indicator re	Soutainability initiatives / requirements from the ESSG This is an extract only from the relevant ESSG. For full requirements refer to https://efig.dot.new.edu.au/weikame	CFSG CFSG type	Crossover with Green Star	Standard øvldence to demonstrate compliance	Has this been implemented in the project? Y or N	Contractor's ISD consultant comments	Actual evidence proposed This evidence needs to show that the requirement from column C has been met	Design stage - evidence proposed	As Built stage - Additional evidence proposed	is the evidence proposed accepted? Y or N	is the project compliant at this stage? T or N	Stantec's response 04/06/2021	Stanlar(): response 08/10/2021	is the project compliant at this stage? Y or N	Is the project compliant at this stage? Y or N	Responses received 08/08/2022 + 14/09/2022	Is the project compliant at this stage? Y or N	Is the project compliant at this stage? Yor N
Place	P2- Welconing learning spaces	Wards and more Wards and more Wards and more Wards and more and mor	DG48.01 Mandator	p DAB24.3 Containvision and Haserdow Addenials	Shareshare materials study / dis inspection regard / unary Monogenerative for how both the study of	¥	Harmel report has been completed at Tender by Harmel Services.	Haardoo mateloh suvey report Dearana antifuks for Cavarnation and Iteanboo Monsil	Hazardaa meterlah survey report Okanaca antifusia far Ganienadan ad Navardiba Makenak			Neurobou Materiali Sarang provided				No update in the as built is required.			
Place	P3 - Welcoming learning spaces	Digital infrastructure New building and refurbithments are required to provide a common wineins solution compatible across the school, providing a consistent user experience and support machanism. This involves the registrument of existing ingary winders equipment, such as wireless accessionitism and also wireless.	DG64.12.02 Mandator	y GSC c22.2 Digital infrastructure	1) Contracts describing the network infrastructure specification and operational requirements	Y	Provided in line with EPSG requirements	Network Infrastructure Diagrams Description of Installation Disctrical As Builts Comms As Builts		Network Infrastructure Diagrams Description of Installation Electrical As Builts Comms As Builts						No update in the as built is required.		Y	×
Realler	R1 – Preparation for shocks	Se basegation for melline The fallencing dotted reservices in the reservice of the sector of the se	DG03.02 Negotiabi	DAB c3 Adaptation and Besilience	1) British ayon o sa na ƙwagat 20 Anarona wa sa na na an 13 Salan a Amarika a sa na na na na na na na a dawad Drongh duga naganas.	d Y	Exclusion Argonic Infrastructure Argonic Marchard Report All produced for SEAA is part of business case	Kollegial report Buthin Report Infrastructure Report Humait Report	Konlegical-Import Buhdhe Neport Infrastructure Report Harmet Report			Reclama reports provided				No update in the as built is required.		v	×
Reeller	R1 – Proparation for shocks	Hold synthemic Comparison of the synthesis of the synthesynthesis of the synthesis of the synthesis of the synthesis	DG11.01 Mandator	r 548-c1 Adaptetion and Busilience	 Back das associated selects Back das associated sele	Ÿ	Rafer Skuldten Regard by Cherkelder	Bush for a sensing report Submersky drafted / Jush for consultant subling strategies and drafted and the sensitivity of the strategies of the subscription of the strategies of the subscription of the sensitivity of the subscription of the measures implemented	Buth for assessment report Software Hy Archited / Josh Pre sonabarit adding the singuine and the Architecture and Architecture Architecture and Architecture and Architecture to adjust professional Landscope and an information measures implemented			Bublin report provided				No update in the se built is required.			
Reulies	R2 – Preparation for stresse	Response to climate risks Consideration to be given to how other and clobed communities will be able to adaptive respond to climate charge over time, especially for projects involving sulverable communities e.g. climate generating examinated flood, strem suppr, humdation, heatware, bash free, externer storm and worker events.	DGD2.08 Mandator	g DAB c3 Adaptation and Resilience	1) Climaterisk assessment, and 2) Climate adaptation plan 3) Ennergency management plan	¥	Calculations by engineers have been completed to account for changes in design conditions associated with climate change. Buch fire assessment complete, low-maintenance landscaping to be installed Community safe spaces such as halls provided.	Cimate Charge Statement Evidence of elements installed in design	Climate Change Statement Evidence of elements installed in design			Climate nisk consideration not provided in the ESD Report	Please refer to evidence provided in 8756 R2 0602.08 - Response to clanate risk. Evidence provided: - Clanate change adaptation & Resilience Memo	Climate charge adaptation & realisece meno outlines climate rink consideration.		No update in the as built is required.		¥	¥
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Green Star - Design & As Built Gap Assessment

Project: Targeted Rating: Revision	Porters Cr 4 Star - Be 06 FINAL	reek Public School est Practice														NOT AWARDED or ACTION RECOMMENDED
Points Available	100	Equivalence to Green Star outcome	2													
Points Required Points Targeted Safety Margin	45 45.6 0.6	Low Med High	0 10 38	0% 21% 79%												
Rating Achieved	4 Stars	TOTAL Credit Criteria	48 Points	100%	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to	WSP Review Comment 11/12/2020 WSP Review Con	1ment 28/04/2021	Stantec Review Comments 06/05/2021	WSP Review Comment 05/07/2021	Stantec Review Comments 09/10/2021	WSP Review Comment 06/12/2021	WSP Review Comment 15/07/2022	WSP Final Review 06/10/2022
Management			Available 14	5				Green Star outcome								
Green Star Accredited Professional (GSAP)	1.0	Accredited Professional	1	1	Stantec	Appoint GSAP at all stages of the project, leading to certification	ESD consultant identifies sustainability needs and requirements and coordinates ESD input in building design. An ESD report is produced to identify all sustainable development actions and initiatives.	High	While a Green Star submis still be good to demonstra the project team.	sion is not required, it will GS te that a GSAP is included in Do	SAP certificate from Stantec team member included ithin the Reference Documents folder - Sustainability ocumentation folder	GSAP certificate from Stantec team member included and is acceptable.			No changes in the as-built	Can be achieved
Building Information	4.0	Building Information	1	1	Head Contractor	Provide operations and maintenance (O&M) information and log book to facilities management team and stakeholders and Provide building user information to all relevant stakeholders	Operations and Maintenance manuals and Principal's handbook. EFSGs require a building user's guide is developed.	High				No information provided for this credit yet.	ō be provided at as built	Noted	OMM received for electrical and mechanical services. However, EFSG and Green Star requirement also ask for the production of a Building User's Guide - an overarchin document outlining the initiatives to optimise operationa efficiencies and summarising maintenance information of services.	Generic Building User Information document included with package. Recommend submitting BUG where provided as additional support to the O&M documentation received.
Commitment to Performance	5.1	Environmental Building Performance	1	1	SINSW	Set, measure and report for at least 2 building performance metrics i.e. energy, water, waste and IEQ	SINSW able to commit to measure and report on environmental performance. Building performance monitoring is currently done by SINSW for all projects	High				No information provided for this credit yet.	ō be provided at as built	Noted	No information provided for this credit yet.	Set targets based on modelling reports and in line with SINSW general targets Where satisfied, this point can be claimed
Responsible Building Practices	7.0	Environmental Management Plan (EMP) Formalised Environmental Management System	Mandatory for this Credit 1	-	Head Contractor Head Contractor	Develop and implement a best practice EMP A responsible party for the site has a formalised approach to planning, implementing and auditing is in place during construction, to ensure conformance with the EMP	EMP is required. The requirements for the best practice EMPs are outlined in the NSW Environmental Management Systems Guidelines . GC21 provisions for ISO accredited EMS	High High				No information provided for this credit yet.	o be provided at as built	Noted	No information provided for this credit yet. No information provided for this credit yet.	RCC to provide evidence of their current EMS and EMP (known to be in place) Where satisfied, this point can be claimed
Operational Waste	8A	Performance Pathway	1	1	Head Contractor/Wast Auditor	Qualified waste auditor prepares and Implements an Operational Waste Management Plan (OWMP) which is then reflected in design of building facilities	School Waste Management Plan Whole-of-government contract under discussion for best practice stream separation.	High	WMP received by SMEC do following information: - operational waste diversi - separation of waste strea - waste transfer paths from location - bin storage location withi - vehicle access	es not contain the on targets ms within the development n source to bin storage n the development	NSW confirmed the current WMP to be sufficient at is stage. efer to correspondance evidence provided through the FSG WM3-DG02.07	Confirmation received outlines that the WMP can be used if it's been amended from further consultation with AMU & the School. WMP is not sufficient to meet the credit intent. If it is desired to achieve a point for this credit, it is recommended that WMP be updated to include the following information. These information provide assurance that the operational waste management practices for the site are appropriate and efficient. - operational waste diversion targets - separation of waste streams within the development - waste transfer paths from source to bin storage location	INSW confirmed the current WMP to be sufficient. Refer to correspondance evidence provided through the FSG WM3-DG02.07	WSP acknowledges that SINSW confirms the current WMP is sufficient. For best practice WMP, it is still recommended that the items highlighted in WSP's previous comment should be addressed.	WSP acknowledges that SINSW confirms the current WMP is sufficient. For best practice WMP, it is still recommended that the items highlighted in WSP's previous comment should be addressed.	Can be achieved
Category/Credit	Code	Credit Criteria	Points Available 17	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to Green Star outcome								
	9.2	Provision of Outdoor Air	2	1	Mechanical	1 point - Outdoor air is provided at a rate 50% greater than min required by AS 1668.2:2012 or maintain CO ₂ concentrations below 800ppm 2 points - Outdoor air is provided at a rate 100% greater than min required by AS 1668.2:2012 or maintain CO ₂ concentrations below 700ppm •Naturally ventilated spaces must meet the requirements of AS 1668.4-2012	Provision of outdoor air required in EFSGs is above Section J but below Green Star requirements	N/A	Provide confirmation on he exceeds the minimum requ if the requirements of AS 1 naturally ventilated spaces	ow the outside air provision uired by AS1668.2:2012 and 668.4-2012 are met for . EC Ma	D2 sensors are set to maintain 600-800ppm as ecommended by AS1668.2:2012. efer to updated evidence provided through the EFSG C1-DG57.01 Ventialtion Strategy - Northtrop lechanical Services Specification	Ventilation strategy as outlined in the Northrop Mechanical Services Specification is acceptable.			As-Built Mechanical Drawings outline that CO2 sensors are to be installed. Please provide confirmation that they have been installed and set to meet the ventilation strategy as per the Northrop Mechanical Services Specification.	 Refer EFSG ESD schedule responses to Energy & Carbon-EC1: Energy Efficiency and Place-P3 Welcoming Spaces, for DG55 / DG55.02 (rows 26 & 77 of the EFSG ESD schedule) We note these CO₂ sensors are not intended to control outside air turn-down for A/C but are only used to provide feedback via signalling of poor indoor environmental quality. 1 point might be justified by natural ventilation opportunity but diverges from the original pathway
Indoor Air Quality	9.3	Exhaust or Elimination of Pollutants	1	1	Mechanical	Sources of pollutants (printing, photocopying) compliant with minimum emissions standards or be exhausted directly to outside	EFSG contains provisions for exhaust or elimination of pollutants for multiple spaces, incl printing rooms and kitchens	High	Provide confirmation that flow rate are in accordance	minimum exaust ventilation e with AS1668.2-2012. Re EC Ma	eneral exhaust systems to print rooms, BCR and all reas as specified in DG57 NSW EFSG. efer to updated evidence provided through the EFSG C1-DG57.01 Ventialtion Strategy - Northtrop Jechanical Services Specification	Exhaust strategy as outlined in the Northrop Mechanical Services Specification is as per DG57 NSW EFSG - This design guide (DG57.03) references compliance as per AS1668.2. The specification is acceptable.			Please provide confirmation that the exhaust strategy as per the Northrop Mechanical Services Specification has been met.	Can be achieved
Acoustic Comfort	10.1	Internal Noise Levels	1	1	Acoustic	Internal ambient noise levels no more than 5db(A) above lower figure in table 1 of AS/NZA 2107:2016 Compliance shall be demonstrated through measurement provided by a qualified acoustic consultant	Acoustic performance requirements for the different spaces are set out in EFSGs.This includes noise levels, reverberation and acoustic separation. Requirements within EFSGs are considered best practice for schools	High	Acoustic Assessment Detai Consulting is acceptable.	led Design Report by RAPT					As-Built Wall Type Schedule outlines acoustic rating of walls as Rw 40. However, it is noted in the Acoustic Assessment Detailed Design Report by RAPT Consulting that most walls are required to have Rw 45. Please provide confirmation that the as built meets the acoustic requirement.	Confirmed through RAPT confirmation letter
	10.2	Reverberation	1	1	Acoustic	Reverberation time below max stated in table 1 of AS/NZS 2107:2016 Compliance shall be demonstrated through measurement	As above	High	Acoustic Assessment Detai Consulting is acceptable.	led Design Report by RAPT					As-Built Wall Type Schedule outlines acoustic rating of walls as Rw 40. However, it is noted in the Acoustic Assessment Detailed Design Report by RAPT Consulting that most walls are required to have Rw 45. Please provide confirmation that the as built meets the acoustic requirement.	Confirmed through RAPT confirmation letter
	11.0	Minimum Lighting Comfort	Mandatory for this Credit	-	Electrical	Lights in the nominated area (all primary and secondary spaces) are Flicker-free lights and min Colour Rendering Index (CRI) of 80	EFSGs encompass best practice provisions for lighting comfort, illuminance levels, glare reduction, surface illuminance and lighting controls. Modelling is required to inform design and demonstrate outcomes.	High	Electrical Services Specifica requirement. No other cor	tion includes CRI nments.					LED lighting installed and the Lighting Schedule and Datasheets provided outline compliant CRI.	Can be achieved
Lighting Comfort	11.1	General Illuminance and Glare Reduction	1	1	Electrical	Lighting levels and quality comply with the GBCA best practice guidelines and Glare reduction	As above	High	Isolux plots need to include following to determine if e - Illuminance levels are con AS/NZS 1680.1 - Maintaned illuminance u that specified in Table 3.2 o - Provide datasheets/confi are fitted with baffles, louv celing design or other mea light source. We note that specified do not meet this	e a table demonstrating the quivalency is achieved: npared against Table 3.1 of niformity of no less than of AS1680.1. rmation that all luminaires rers, translucent diffusers, ns that obscures the direct some of the luminaires requirement.	efer to updated evidence provided through the EFSG C1-DG63.06 Constant light output/ Daylighting. vidence includes: Confirmation email from Electrical contractor Stowe solux plots containing required inforamtion Lighting Data sheets	Isolux plots and confrimation that all luminaires are fitted with baffles, louvers and other means that obscure the direct light source are acceptable.			As-Built Lighting Drawings reviewed against design and Isolux plots provided are still applicable.	Can be achieved

Rating Achieved	4 Stars TOTAL	48	100%											
Category/Credit	Code Credit Crite	a Points Available	Points Targete	d Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to Green Star outcome WSP Review Comment 11/12/2020	WSP Review Comment 28/04/2021	Stantec Review Comments 06/05/2021	WSP Review Comment 05/07/2021	Stantec Review Comments 09/10/2021	WSP Review Comment 06/12/2021	WSP Review Comment 15/07/2022	WSP Final Review 06/10/2022
Green Star Accredited Professional (GSAP)	1.0 Accredited Professional	14	1	Stantec	Appoint GSAP at all stages of the project, leading to certification	ESD consultant identifies sustainability needs and requirements and coordinates ESD input in building design. An ESD report is produced to identify all sustainable development actions and initiatives.	High	While a Green Star submission is not required, it will still be good to demonstrate that a GSAP is included ir the project team.	GSAP certificate from Stantec team member included within the Reference Documents folder - Sustainability Documentation folder	GSAP certificate from Stantec team member included and is acceptable.			No changes in the as-built	Can be achieved
Building Information	4.0 Building Information	1	1	Head Contractor	Provide operations and maintenance (O&M) information and log book to facilities management team and stakeholders and Provide building user information to all relevant stakeholders	Operations and Maintenance manuals and Principal's handbook. EFSGs require a building user's guide is developed.	High			No information provided for this credit yet.	To be provided at as built	Noted	OMM received for electrical and mechanical services. However, EFSG and Green Star requirement also ask for the production of a Building User's Guide - an overarchin document outlining the initiatives to optimise operationa efficiencies and summarising maintenance information o services.	Generic Building User Information document included with package. Recommend submitting BUG where provided as additional support to the O&M documentation received.
Commitment to Performance	Environmenta 5.1 Building Performance	1	1	SINSW	Set, measure and report for at least 2 building performance metrics i.e. energy, water, waste and IEQ	SINSW able to commit to measure and report on environmental performance. Building performance monitoring is currently done by SINSV for all projects	/ High			No information provided for this credit yet.	To be provided at as built	Noted	No information provided for this credit yet.	Set targets based on modelling reports and in line with SINSW general targets Where satisfied, this point can be claimed
Responsible Building Practices	7.0 Environmenta 7.0 Management (EMP) Formalised 7.1 Environmenta Management	Plan Mandatory for this Credit 1	- 1	Head Contractor Head Contractor	Develop and implement a best practice EMP A responsible party for the site has a formalised approach to planning, implementing and auditing is in place during construction, to ensure conformance with	EMP is required. The requirements for the best practice EMPs are outlined in the <i>NSW Environmental Management</i> <i>Systems Guidelines</i> . GC21 provisions for ISO accredited EMS	High			No information provided for this credit yet.	To be provided at as built	Noted	No information provided for this credit yet. No information provided for this credit yet.	RCC to provide evidence of their current EMS and EMP (known to be in place) Where satisfied, this point can be claimed
Operational Waste	System 8A Performance Pathway	1	1	Head Contractor/W Auditor	the EMP Qualified waste auditor prepares and Implements an Operational Waste Management Plan (OWMP) which is then reflected in design of building facilities	School Waste Management Plan Whole-of-government contract under discussion for best practice stream separation.	High	WMP received by SMEC does not contain the following information: - operational waste diversion targets - separation of waste streams within the developmen - waste transfer paths from source to bin storage location - bin storage location within the development - vehicle access	SINSW confirmed the current WMP to be sufficient at this stage. Refer to correspondance evidence provided through the EFSG WM3-DG02.07	Confirmation received outlines that the WMP can be used if it's been amended from further consultation with AMU & the School. WMP is not sufficient to meet the credit intent. If it is desired to achieve a point for this credit, it is recommended that WMP be updated to include the following information. These information provide assurance that the operational waste management practices for the site are appropriate and efficient. - operational waste diversion targets - separation of waste streams within the development - waste transfer paths from source to bin storage location	SINSW confirmed the current WMP to be sufficient. Refer to correspondance evidence provided through the EFSG WM3-DG02.07	WSP acknowledges that SINSW confirms the current WMP is sufficient. For best practice WMP, it is still recommended that the items highlighted in WSP's previous comment should be addressed.	WSP acknowledges that SINSW confirms the current WMP is sufficient. For best practice WMP, it is still recommended that the items highlighted in WSP's previous comment should be addressed.	Can be achieved
Category/Credit	Code Credit Crite	a Points Available	Points Targete	d Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to Green Star outcome							
Indoor Environment Quality	9.2 Provision of Outdoor Air	17 2	8	Mechanical	1 point - Outdoor air is provided at a rate 50% greater than min required by AS 1668.2:2012 or maintain CO ₂ concentrations below 800ppm 2 points - Outdoor air is provided at a rate 100% greater than min required by AS 1668.2:2012 or maintain CO ₂ concentrations below 700ppm •Naturally ventilated spaces must meet the requirements of AS 1668.4-2012	Provision of outdoor air required in EFSGs is above Section J but below Green Star requirements	N/A	Provide confirmation on how the outside air provision exceeds the minimum required by AS1668.2:2012 and if the requirements of AS 1668.4-2012 are met for naturally ventilated spaces.	CO2 sensors are set to maintain 600-800ppm as recommended by AS1668.2:2012. Refer to updated evidence provided through the EFSG EC1-DG57.01 Ventialtion Strategy - Northtrop Mechanical Services Specification	Ventilation strategy as outlined in the Northrop Mechanical Services Specification is acceptable.			As-Built Mechanical Drawings outline that CO2 sensors are to be installed. Please provide confirmation that they have been installed and set to meet the ventilation strategy as per the Northrop Mechanical Services Specification.	Refer EFSG ESD schedule responses to Energy & Carbon- EC1: Energy Efficiency and Place-P3 Welcoming Spaces, for DG55 / DG55.02 (rows 26 & 77 of the EFSG ESD schedule) We note these CO ₂ sensors are not intended to control outside air turn-down for A/C but are only used to provide feedback via signalling of poor indoor environmental quality. 1 point might be justified by natural ventilation opportunity but diverges from the original pathway
Indoor Air Quality	Exhaust or 9.3 Elimination of Pollutants	1	1	Mechanical	Sources of pollutants (printing, photocopying) compliant with minimum emissions standards or be exhausted directly to outside	EFSG contains provisions for exhaust or elimination of pollutants for multiple spaces, incl printing rooms and kitchens	High	Provide confirmation that minimum exaust ventilation flow rate are in accordance with AS1668.2-2012.	General exhaust systems to print rooms, BCR and all areas as specified in DG57 NSW EFSG. Refer to updated evidence provided through the EFSG EC1-DG57.01 Ventialtion Strategy - Northtrop Mechanical Services Specification	Exhaust strategy as outlined in the Northrop Mechanical Services Specification is as per DG57 NSW EFSG - This design guide (DG57.03) references compliance as per AS1668.2. The specification is acceptable.			Please provide confirmation that the exhaust strategy as per the Northrop Mechanical Services Specification has been met.	Can be achieved
Acoustic Comfort	Internal Noise 10.1 Levels	1	1	Acoustic	Internal ambient noise levels no more than 5db(A) above lower figure in table 1 of AS/NZA 2107:2016 Compliance shall be demonstrated through measurement provided by a qualified acoustic consultant	Acoustic performance requirements for the different spaces are set out in EFSGs.This includes noise levels, reverberation and acoustic separation. Requirements within EFSGs are considered best practice for schools	High	Acoustic Assessment Detailed Design Report by RAPT Consulting is acceptable.					As-Built Wall Type Schedule outlines acoustic rating of walls as Rw 40. However, it is noted in the Acoustic Assessment Detailed Design Report by RAPT Consulting that most walls are required to have Rw 45. Please provide confirmation that the as built meets the acoustic requirement.	Confirmed through RAPT confirmation letter
	10.2 Reverberation	1	1	Acoustic	Reverberation time below max stated in table 1 of AS/NZS 2107:2016 Compliance shall be demonstrated through measurement	As above	High	Acoustic Assessment Detailed Design Report by RAPT Consulting is acceptable.					As-Built Wall Type Schedule outlines acoustic rating of walls as Rw 40. However, it is noted in the Acoustic Assessment Detailed Design Report by RAPT Consulting that most walls are required to have Rw 45. Please provide confirmation that the as built meets the acoustic requirement.	Confirmed through RAPT confirmation letter
	Minimum Ligh 11.0 Comfort	ing Mandatory for this Credit	_	Electrical	Lights in the nominated area (all primary and secondary spaces) are Flicker-free lights and min Colour Rendering Index (CRI) of 80	EFSGs encompass best practice provisions for lighting comfort, illuminance levels, glare reduction, surface illuminance and lighting controls. Modelling is required to inform design and demonstrate outcomes.	High	Electrical Services Specification includes CRI requirement. No other comments.					LED lighting installed and the Lighting Schedule and Datasheets provided outline compliant CRI.	Can be achieved
Lighting Comfort	General 11.1 Illuminance al Glare Reductio	d 1 n	1	Electrical	Lighting levels and quality comply with the GBCA best practice guidelines and Glare reduction	As above	High	Isolux plots need to include a table demonstrating the following to determine if equivalency is achieved: - Illuminance levels are compared against Table 3.1 of AS/NZS 1680.1 - Maintaned illuminance uniformity of no less than that specified in Table 3.2 of AS1680.1. - Provide datasheets/confirmation that all luminaires are fitted with baffles, louvers, translucent diffusers, celing design or other means that obscures the direct light source. We note that some of the luminaires specified do not meet this requirement.	Refer to updated evidence provided through the EFSG EC1-DG63.06 Constant light output/ Daylighting. Evidence includes: - Confirmation email from Electrical contractor Stowe - Isolux plots containing required inforamtion - Lighting Data sheets	Isolux plots and confrimation that all luminaires are fitted with baffles, louvers and other means that obscure the direct light source are acceptable.			As-Built Lighting Drawings reviewed against design and Isolux plots provided are still applicable.	Can be achieved

Green Star - Design & As Built Gap Assessment

Project: Targeted Rating: Revision	Porters Creek Public School 4 Star - Best Practice 06 FINAL							
Points Available	100	Equivalence to Green Star outcome						
Points Required	45	Low	0	0%				
Points Targeted	45.6	Med	10	21%				
Safety Margin	0.6	High	38	79%				
Rating Achieved	4 Stars	TOTAL	48	100%				

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Category/Credit	Code	Credit Criteria	Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Green Star outcome	WSP Review Comment 11/12/2020	WSP Review Comment 28/04/2021	Stantec Review Comments 06/05/2021	WSP Review Comment 05/07/2021	Stantec Review Comments 09/10/2021	WSP Review Com
	12.0	Glare Reduction	Mandatory for this Credit		Architect/ESD	Reduce glare through a combination of blinds, screens fixed devices, or other means	, EFSGs require daylight glare controls are implemented in the design	High		Confirmation is required on what glare reducing measures are in place.	Refere to updated evidence provided through the EFSG P3- DG12 Daylight glare control	FFE Schedule received outlining the provision of blinds. However, need confirmation on where these blinds are installed. WSP note that these blinds are not included in the architectural drawings received.	Blinds will be provided as per FFE schedule. Final Arch drawings To be provided at as built	Noted
Visual Comfort	12.1	Daylight	2	1		 1 point - 40% of the nominated area (all primary spaces) receives high levels of daylight 2 points - 60% of the nominated area (all primary spaces) receives high levels of daylight 	EFSGs require daylighting is maximised through a combination of measures.	N/A		Previously not targeted and now 1 point is achieved for Daylight.				
	12.2	Views	1	1	Architect/ESD	60% of the nominated area (all primary spaces) has to have a clear line of sight to a high quality internal or external view <u>External View</u> – A high quality external view must extend to the outside towards natural elements such as large bodies of vegetation, a body of water, frequent movement of (people, vehicles, or animals) o sky <u>Internal View</u> - A high quality internal view is defined as a view towards an area that is landscaped or contains a water feature, or an atrium	Not explicitely required in EFSGs but should be achievable based on typical room design, windows and landscaping in or new schools.	Med		Views calculation is required to demonstrate equivalency the Green Star Views Credit.	Teaching Building Lower Ground Plan has been calculated to prove compliance. Refere to updated evidence provided through the EFSG P3- DG2.3.1 Daylighting - Views	Views Calculation for the teaching building is acceptable.		
Indoor Pollutants	13.1	Paints, Adhesives, Sealants and Carpets	1		Head Contractor/Architect & Services Consultants Head	No paints, adhesives, sealants or carpets are used in the building or 95% of all internal paints, adhesives, sealants and carpets meet total VOC limits No new engineered wood products are used in the	EFSGs encompass best practice provisions for VOC and formaldehyde contents, but this is costly to document.	High				No information provided for this credit yet.	To be provided at as built	Noted
	13.2	Engineered Wood Products	1		Contractor/Architect & Service Consultant (Joinery)	building or At least 95% of all engineered wood products meet formaldehyde emission limits	As above	High				No information provided for this credit yet.	To be provided at as built	Noted
Thermal Comfort	14.1	Thermal Comfort Advanced Therma	1	1	Head Contractor/Mechanical & ESD Head Contractor/Mechanical	80% of occupants satisfied - equivalent to PMV between -1 and +1 90% of occupants satisfied - equivalent to PMV	Inclusion of active cooling is directed by DoE's thermal comfort policy. If provided: EFSGs require thermal comfort is automatically controlled within specified parameters. Thermal modelling is required to demonstrate that learning spaces and libraries have been designed to achieve a predicted mean vote (PMV) of +/- 0.5 for 95% of occupied	High Med		Thermal Comfort Report is acceptable. Point removed since it is not achieved as per the				
			Points		& ESD		hours	Equivalence to						
Category/Credit	Code	Credit Criteria	Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Green Star outcome						
Greenhouse Gas Emissions	15E.O	Conditional Requirement: Reference Building Pathway	Mandatory for this Credit and Certification	-	ESD, Head Contractor/Architect & Services Consultants	 Projects targeting: 4 Star - Proposed building must achieve 10% improvement on NCC Section J reference building. Equivalent to GBCA Benchmark Building 5 Star - Minimum points threshold = 3 points 6 Star - Minimum points threshold = 6 points 	EFSG DG02 requires 'energy consumption is predicted to be at least 10% lower than if build to minimum compliance with National Construction Code requirements'.	High			The distance between the project site is approximately			
	15E.1	Reference Building Pathway	^g 20	7.2	ESD, Head Contractor/Architect & Services Consultants	 Points awarded for emissions reduction: Building fabric relative to NCC Section J to Reference Building - 1 point for 5%, 2 point for 10%, 3 point for 15%, max. 4 point for 20% Proposed building relative to GBCA Benchmark Building - 1.6 point for 10%, 3.2 point for 20%, 4.8 point for 30%, 6.4 point for 40% etc. 	 EFSG's require a number of measures for reduced energy consumption including: Passive design (building envelope, orientation, daylighting, insulation, etc) Energy efficient HVAC and lighting systems Solar PV Based on this, it's estimated that, on average, 6 points could be scored under this credit. 	High		Minor comments on the Energy Modelling undertaken: - Weather file used is Sydney but it is closer to Newcastle. - DHW system storage capacity between reference and proposed are not the same	 Selcted Sydeney weather station. Since both locations are within Climate zone 5 (BCA Climate Zone Map) the selection of the weather file would not have a significar impact on the project's results. The DHW storage tank capacity for the reference case has been calculated and sized based on the increased DHW demand difference between the reference and proposed case. The proposed DHW storage size would not meet the reference DHW demand. 	t Stantec comments noted. Updated Energy Modelling Report is acceptable.		
Peak Electricity Demand Reduction	16B	Performance Pathway - Reference Building	2	1.90	ESD, Head Contractor	Project's predicted peak electricity demand has beenreduced below that of a Reference Building:1 point - 20% reduction		Med		Peak energy demand in the report states that it is 29% reduction when it's meant to be 17% as per the	Refere to updated Energy Modelling report Peak Energy Results Section.	 Stantec comments noted. Updated Energy Modelling Report is acceptable. 		
			Dointe			• 2 points - 30% reduction		Equivalance to						
Category/Credit	Code	Credit Criteria	Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Green Star outcome						
Sustainable Transport	17A.1	Performance Pathway	10	1.00	ESD & Transport professional, Architect	 The Travel Plan or Transport Plan must be developed by a suitably qualified transport professional Completion of the Sustainable Transport Calculator Most appropriate for suburban or regional projects 	Active transport plan, but bike infrastructure required is excessive. Conservative 3 points estimated to be achievable.	High		Only 1 point can potentially be achieved due to proximity to bus stops and dedicated bus services during school zone. While approximately 16 bicycle racks are provided based on the Arcadia drawing, they don't appear to be secure and no associated end of trip facilities are provided which does not meet the intent of the "active mode encouragement".	SINSW has very comprehensive transport requirements for schools, and the GBCA has agreed that these are robust enough to be an alternative to their requirements. If the project has a School Travel Plan and completed their transport planning accordingly, then this is all that is required. Refer to correspondance evidence provided through th EFSG EC3 - Transport Plan	e Please provide confirmation from the GBCA.	TQ from GBCA provided Refer to correspondance evidence provided through the EFSG EC3 - Transport Plan	GBCA TQ noted
Category/Credit	Projects tha	<u>crioose to use the 'P</u> Credit Criteria	Points	v creait can not use t Points Targeted	me subsequent Sustainabe Responsibility	Compliance Requirements		Equivalence to						
Water	coue		Available 12	8.00	responsibility	complance requirements		Green Star outcome						
Potable Water	18A.1	Performance Pathway	12	8	ESD, Hydraulics, Fire, Landscape & Mechanical	Completion of the Green Star Potable Water Calculator	EFSGs require a number of initiatives to reduce potable r water consumption. This includes rainwater harvesting, water efficient fixtures and fittings, etc.	High		Requires: - Completed potable water calculator to support 8 points claimed - Confirm proposed flush rate/flow rate information of fixtures and fittings.	Potable water calculations will not be provided as this i a GS equivalency refer to the EFSG Water credits DG53.02 and DG2.4.1 - Fixture Efficiency	s High level potable water calculator completed by WSP. Current water efficiency strategies in line with the 8 points claimed. Documents received are acceptable.		
	Codo	Cradit Critaria	Points	Doints Targeted	Posponsihility	Compliance Requirements		Equivalence to						

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Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to Green Star outcome	WSP Review Comment 11/12/2020	WSP Review Comment 28/04/2021	Stantec Review Comments 06/05/2021	WSP Review Comment 05/07/2021	Stantec Review Comments 09/10/2021	WSP Revie
	12.0	Glare Reduction	Mandatory for this Credit		Architect/ESD	Reduce glare through a combination of blinds, screens, fixed devices, or other means	, EFSGs require daylight glare controls are implemented in the design	High		Confirmation is required on what glare reducing measures are in place.	Refere to updated evidence provided through the EFSG P3- DG12 Daylight glare control	FFE Schedule received outlining the provision of blinds. However, need confirmation on where these blinds are installed. WSP note that these blinds are not included in the architectural drawings received.	Blinds will be provided as per FFE schedule. Final Arch drawings To be provided at as built	Noted
Visual Comfort	12.1	Daylight	2	1		 1 point - 40% of the nominated area (all primary spaces) receives high levels of daylight 2 points - 60% of the nominated area (all primary spaces) receives high levels of daylight 	EFSGs require daylighting is maximised through a combination of measures.	N/A		Previously not targeted and now 1 point is achieved for Daylight.				
	12.2	Views	1	1	Architect/ESD	60% of the nominated area (all primary spaces) has to have a clear line of sight to a high quality internal or external view <u>External View</u> – A high quality external view must extend to the outside towards natural elements such as large bodies of vegetation, a body of water, frequent movement of (people, vehicles, or animals) or sky <u>Internal View</u> - A high quality internal view is defined as a view towards an area that is landscaped or contains a water feature, or an atrium	Not explicitely required in EFSGs but should be achievable based on typical room design, windows and landscaping in r new schools.	Med		Views calculation is required to demonstrate equivalency the Green Star Views Credit.	Teaching Building Lower Ground Plan has been calculated to prove compliance. Refere to updated evidence provided through the EFSG P3- DG2.3.1 Daylighting - Views	Views Calculation for the teaching building is acceptable.		
Indoor Pollutants	13.1	Paints, Adhesives, Sealants and Carpets	1		Head Contractor/Architect & Services Consultants Head	No paints, adhesives, sealants or carpets are used in the building or 95% of all internal paints, adhesives, sealants and carpets meet total VOC limits No new engineered wood products are used in the	EFSGs encompass best practice provisions for VOC and formaldehyde contents, but this is costly to document.	High				No information provided for this credit yet.	To be provided at as built	Noted
	13.2	Engineered Wood Products	1		Contractor/Architect 8 Service Consultant (Joinery)	 building or At least 95% of all engineered wood products meet formaldehyde emission limits 	As above	High				No information provided for this credit yet.	To be provided at as built	Noted
Thermal Comfort	14.1	Thermal Comfort Advanced Thermal	1	1	Head Contractor/Mechanica & ESD Head Contractor/Mechanica	80% of occupants satisfied - equivalent to PMV between -1 and +1 90% of occupants satisfied - equivalent to PMV	Inclusion of active cooling is directed by DoE's thermal comfort policy. If provided: EFSGs require thermal comfort is automatically controlled within specified parameters. Thermal modelling is required to demonstrate that learning spaces and libraries have been designed to achieve a predicted mean vote (PMV) of +/- 0.5 for 95% of occupied	High		Thermal Comfort Report is acceptable. Point removed since it is not achieved as per the				
		Comfort	Points		& ESD	between -0.5 and +0.5	hours	Equivalence to		Thermal Comfort Report				
Category/Credit Energy	Code	Credit Criteria	Available	9.1	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Green Star outcome						
	15E.0	Conditional Requirement: Reference Building Pathway	Mandatory for this Credit and Certification	-	ESD, Head Contractor/Architect & Services Consultants	 Projects targeting: 4 Star - Proposed building must achieve 10% improvement on NCC Section J reference building. Equivalent to GBCA Benchmark Building 5 Star - Minimum points threshold = 3 points 6 Star - Minimum points threshold = 6 points 	EFSG DG02 requires 'energy consumption is predicted to be at least 10% lower than if build to minimum compliance with National Construction Code requirements'.	High						
Greenhouse Gas Emissions	15E.1	Reference Building Pathway	20	7.2	ESD, Head Contractor/Architect 8 Services Consultants	 Points awarded for emissions reduction: Building fabric relative to NCC Section J to Reference Building - 1 point for 5%, 2 point for 10%, 3 point for 15%, max. 4 point for 20% Proposed building relative to GBCA Benchmark Building - 1.6 point for 10%, 3.2 point for 20%, 4.8 point for 30%, 6.4 point for 40% etc. 	EFSG's require a number of measures for reduced energy consumption including: - Passive design (building envelope, orientation, daylighting, insulation, etc) - Energy efficient HVAC and lighting systems - Solar PV t Based on this, it's estimated that, on average, 6 points could be scored under this credit.	High		Minor comments on the Energy Modelling undertaken: - Weather file used is Sydney but it is closer to Newcastle. - DHW system storage capacity between reference and proposed are not the same	The distance between the project site is approximately equidistant from the Newcastle weather station and the selcted Sydeney weather station. Since both locations are within Climate zone 5 (BCA Climate Zone Map) the selection of the weather file would not have a significant impact on the project's results. The DHW storage tank capacity for the reference case has been calculated and sized based on the increased DHW demand difference between the reference and proposed case. The proposed DHW storage size would not meet the reference DHW demand.	Stantec comments noted. Updated Energy Modelling Report is acceptable.		
Peak Electricity Demand Reduction	16B	Performance Pathway - Reference Building	2	1.90	ESD, Head Contractor	 Project's predicted peak electricity demand has been reduced below that of a Reference Building: 1 point - 20% reduction 2 points - 30% reduction 		Med		Peak energy demand in the report states that it is 29% reduction when it's meant to be 17% as per the calculaton.	Refere to updated Energy Modelling report Peak Energy Results Section.	Stantec comments noted. Updated Energy Modelling Report is acceptable.		
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to Green Star outcome						
Transport Sustainable Transport	17A.1	Performance Pathway	10	1.00	ESD & Transport professional, Architect	 The Travel Plan or Transport Plan must be developed by a suitably qualified transport professional Completion of the Sustainable Transport Calculator Most appropriate for suburban or regional projects 	Active transport plan, but bike infrastructure required is excessive. Conservative 3 points estimated to be achievable.	High		Only 1 point can potentially be achieved due to proximity to bus stops and dedicated bus services during school zone. While approximately 16 bicycle racks are provided based on the Arcadia drawing, they don't appear to be secure and no associated end of trip facilities are provided which does not meet the intent of the "active mode encouragement".	SINSW has very comprehensive transport requirements for schools, and the GBCA has agreed that these are robust enough to be an alternative to their requirements. If the project has a School Travel Plan and completed their transport planning accordingly, then this is all that is required. Refer to correspondance evidence provided through the EFSG EC3 - Transport Plan	Please provide confirmation from the GBCA.	TQ from GBCA provided Refer to correspondance evidence provided through the EFSG EC3 - Transport Plan	GBCA TQ noted
	Projects that	choose to use the 'Pe	rformance Pathway Points	y' credit can not use	the subsequent Sustainabe	el Transport credits and vice-versa		Equivalence to						-
Category/Credit Water	Code	Credit Criteria	Available	Points Targeted 8.00	Responsibility	Compliance Requirements		Green Star outcome						
Potable Water	18A.1	Performance Pathway	12	8	ESD, Hydraulics, Fire, Landscape & Mechanical	Completion of the Green Star Potable Water Calculator	EFSGs require a number of initiatives to reduce potable water consumption. This includes rainwater harvesting, water efficient fixtures and fittings, etc.	High		Requires: - Completed potable water calculator to support 8 points claimed - Confirm proposed flush rate/flow rate information of fixtures and fittings.	Potable water calculations will not be provided as this is a GS equivalency refer to the EFSG Water credits DG53.02 and DG2.4.1 - Fixture Efficiency	High level potable water calculator completed by WSP. Current water efficiency strategies in line with the 8 points claimed. Documents received are acceptable.		
			Points		D			Equivalence to						

Green Star outcome

DEMONSTRATED ACHIEVABLE

5/12/2021	WSP Review Comment 15/07/2022	WSP Final Review 06/10/2022
	Architectural as built drawings include dual roller blinds type 01 (BLD01) as provisioned in Arch Technical Data Sheet FFE Schedules	Can be achieved
	Architectural as built drawings have been reviewed against the drawings used in the Daylight Report by Stantec. Immaterial changes between the design thus the Daylight Report is still valid in the As Built.	Can be achieved
	Architectural as built drawings have been reviewed against the drawings used in the Views Calculation by Stantec. Immaterial changes between the design thus the Views Calculation is still valid in the As Built.	Can be achieved
	No information provided for this credit yet.	Refer EFSG ESD schedule responses to DG2.5.2 Where satisfied, this point can be claimed
	No information provided for this credit yet.	Refer EFSG ESD schedule responses to DG2.5.2 Where satisfied, this point can be claimed
	Mechanical as built drawing have been reviewed against drawings used in the Thermal Comfort Report by Stantec. Immaterial changes between the design thus Thermal Comfort Report is still valid in the As Built.	Can be achieved

As built documents reviewed against documents used for the Energy Modelling Report. Immaterial changes between the design thus Energy Modelling Report is still valid in the As Built. As built documents reviewed against documents used for the Energy Modelling Report. Immaterial changes between the design thus Energy Modelling Report is still valid in the As Built. No changes in the as-built Can be achieved Please provide confirmation of the flow rates/WELS Refer EFSG ESD schedule responses to DG53.02 / DG2.4.1

rating of the installed fixtures and fittings.

Green Star - Design &	As Built (Gap Asses	sment													
Project: Targeted Rating:	Porters Creek 4 Star - Best P	< Public School Practice														
Revision Points Available	100 cr	Equivalence to														DEMONSTRATED ACHIEVABLE
Points Required Points Targeted	45 L 45.6 M	.ow Med	0 10	0%	-											
Safety Margin Rating Achieved	0.6 + 4 Stars T	ligh F OTAL	38 48	79% 100%												
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to	WSP Review Comment 11/12/2020	WSP Review Comment 28/04/2021	Stantec Review Comments 06/05/2021	WSP Review Comment 05/07/2021	Stantec Review Comments 09/10/2021	WSP Review Comment 06/12/2021	WSP Review Comment 15/07/2022	WSP Final Review 06/10/2022
Projects that choose to use the 'Life Cycle A	Assessment' credit n	nay not use the 'Life	Cycle Impacts' cred	it and vice-versa		Portland compart contant reduction measured by mar										
	19B.1 C	Concrete	3	0.5	ESD/Head Contractor Structural	 <u>rotatile centent content</u> reduction measured by mass compared to the reference case 1 point - 30% content reduction 2 points - 40% content reduction <u>Water reduction</u> - 0.5 point mix water for all concrete used in the project contain at least 50% captured or reclaimed water <u>Aggregates Reduction</u> - 0.5 point at least 40% of coarse aggregate in the concrete is crushed slag aggregate or another alternative materia and does not increase the use of Portland cement by over 5 kg/m³ of concrete At least 25% of fine aggregate (sand) inputs in the 	s als EFSGs state fly ash can be used in concrete mixes	High				No information provided for this credit yet.	To be provided at As built	Noted	No information provided for this credit yet.	Refer EFSG ESD schedule responses to DG21.02 10% portland cement replacement by fly ash achieved, but insufficient to claim a point Aggregates claim 0.5 point
Life Cycle Impacts	19B 2 S	Steel	1	1	ESD/Head Contractor	 concrete are manufactured sand or other alternative and does not increase the use of Portland cement by over 5 kg/m³ of concrete Concrete masonry, including core-filled, is excluded This credit is not applicable if cost of all poured concrete is less than 1% of project contract value <u>Steel framed building</u> - Reduced Mass of Steel Framin to compared standard practice High strength steel or 5% reduction in mass of steel frame used Concrete framed building - Reduced Use of Steel 	d	High				No information provided for this credit yet	To be provided at As built	Noted	No information provided for this credit yet	Befer EESG ESD schedule responses to DG21.02
			-	-	Structural	 Reinforcement compared to standard practice 5% reduction in the mass of reinforcing steel used This credit is not applicable if cost of structural and reinforcing steels is less than 1% of project contract value 95% of steel (by mass) sourced from responsible steel 	31									
Responsible Building Materials	20.1 S R	Structural and Reinforcing Steel	1		Head Contractor & Structural	maker and <u>For steel framed buildings</u> - at least 60% of the fabricated structural steelwork is supplied by a steel fabricator/steel contractor accredited to the Environmental Sustainability Charter of the Australia Steel Institute (ASI)	Not required in EFSGs. This is a procurement decision.	High				No information provided for this credit yet.	To be provided at As built	Noted	No information provided for this credit yet.	Provided
	P 20.3 F a	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1	Head Contractor & Services (Mech, Elec,Hyd, Struct)	For concrete framed buildings - at least 60% (by mass 90% (by cost) of all permanent formwork, pipes, flooring, blinds and cables should not contain PVC or meet GBCA best practice guidelines for PVC	2)	High				No information provided for this credit yet.	To be provided at As built	Noted	No information provided for this credit yet.	Provided
Construction and Demolition Waste	22.0 R	Reporting Accuracy	Mandatory for this Credit	-	ESD/Head Contractor a Architect	All waste contractors and waste processing facilities that provide waste management and reporting servic must demonstrate compliance with <i>Green Star</i> <i>Construction and Demolition Waste Reporting Criteria</i>	GC21 construction contract provisions	Med							No information provided for this credit yet.	
	22B B	Percentage Benchmark	1		ESD/Head Contractor Architect	 90% of construction and demolition waste generated to be diverted from landfill or Less than 10kg/m² of GFA goes to landfill 	As above	Med				No information provided for this credit yet.	To be provided at As built	Noted	No information provided for this credit yet.	Not sighted
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements		Equivalence to Green Star outcome								
Land Use & Ecology			6	1												
Ecological Value	E 23.0 T V	Endangered, Threatened or /ulnerable Species	Mandatory for this Credit	-	Head Contractor	No critically endangered or vulnerable species or ecological communities were present on site at the date of site purchase or option contract	EFSGs require due diligence studies and appropriate management of vulnerable species or communities	Med				Ecological assessment outlines that there are no threatened ecological community under either the NSW Biodiversity Conservation Act 2016 or the Commonwealth Environment Protection and Biodiversity Conversation Act 1999. This document is deemed acceptable to meet the credit requirement.			No changes in the as-built	Can be achieved
Sustainable Sites	24.0 C	Conditional Requirement	Mandatory for this Credit and Certification	-	Head Contractor	Site did not include old growth forest, prime agricultural land, wetland of high national importance or impact on matters of national significance	EFSGs require comprehensive due diligence studies are undertaken.	High				threatened ecological community under either the NSW Biodiversity Conservation Act 2016 or the Commonwealth Environment Protection and Biodiversity Conversation Act 1999. This document is deemed acceptable to meet the credit requirement.			No changes in the as-built	Can be achieved
	C 24.2 a N	Contamination and Hazardous Materials	1	1	Head Contractor & Environmental	Environmental site assessment concludes site is contaminated and is to be remediated prior to development	EFSGs require investigation of presence of contamination and hazardous materials and appropriate remediation measures.	High				lead and asbestos and recommendations have been provided for their handling and removal. This document is deemed acceptable to meet the credit requirement.			No changes in the as-built	Can be achieved
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements		Equivalence to Green Star outcome								
Emissions	26.1 C	Stormwater Peak Discharge	1	1	Civil & Hydraulics	Post-development peak average recurrence interval (ARI) event discharge from site does not exceed pre- development	EFSGs require stormwater system to be integrated with relevant authoriy requirements, especially the local council and water authority.	Med	S P R S	Stormwater Management Plan by Cardno Table 4-1 Performance Achieved meets the Green Star Requirements. Stormwater Management Plan by Cardno Table 4-1					As-built documentation showing the civil design is required.	Provide statement confirming civil as built is in accordance with Cardno stormwater management plan. Where satisfied, this point can be claimed
Stormwater	26.2 S P	Stormwater Pollution Targets	1	1	Civil & Hydraulics	Additional point awarded for stormwater site discharge to meet GBCA pollution reduction targets	EFSGs require stormwater treatment and aim to minimise the transportation of toxicants to waterways and other offsite environments, and maintain the existing hydrological regimes.	Med	P R 1 e	Performance Achieved meets the Green Star Requirements. 1 additional innovation point can be achieved for exceeding the minimum requirement.					As-built documentation showing the civil design is required.	Provide statement confirming civil as built is in accordance with Cardno stormwater management plan. Where satisfied, this point can be claimed
	27.0 N B	light Pollution to Neighbouring Bodies	Mandatory for this Credit	-	Electrical	Compliance requirement - AS 4282:1997 No external luminaire has an upward light output rat (ULOR) that exceeds 5% relative to actual mounted	EFSGs require external lights to be designed to prevent glare to nearby residents	Med				Compliance to AS4282 specified in the electrical specification.			As-Built Lighting Drawings reviewed against design and Isolux plots provided are still applicable.	Can be achieved
Light Pollution	27.1 L N	ight Pollution to Night Sky	1	1	Electrical	orientation or Direct illuminance from external luminaries does not produce an initial point illuminance value greater tha 0.5 lux to site boundary and 0.1 lux to 4.5m beyond site into night sky Building naturally ventilated	No requirements in EFSGs in this regard. Typically achievable as external lightin is minimal but compliance to be checked on a project by project basis.	Med				External lighting isolux plots show an Upward Waste Light Ratio (UWLR) of 0% which meets the credit requirement.			As-Built Lighting Drawings reviewed against design and Isolux plots provided are still applicable.	Can be achieved
Microbial Control	L 28.0 fr S	egionella Impacts rom Cooling Systems	1	1	Mechanical	or Has waterless heat rejection system or Has water-based heat rejection systems that includes measures for Legionella control and Risk Managemen	stored at temperature above 65 C. Thermostatic mixing valves are to be used for tempered water generation at each point of use. No requirement for waterless heat rejection systems but these are typically installed	High	V d E	Waterless heat rejection system used in the development as per the Mechanical Schedule and the Energy Report.					No changes in the as-built	Can be achieved
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements		Equivalence to Green Star outcome								
Innovation			10	7.0												
Innovative Technology or Process	30A E	Greenhouse Gas Emissions	2	2	-	Onsite Renewable Energy contribution • 1 point - 5% contribution • 2 points - 10% contribution		High	2	2 Points can be achieved as per the Energy Report.					As built documents reviewed against documents used for the Energy Modelling Report. Immaterial changes between the design thus Energy Modelling Report is stil valid in the As Built.	or Can be achieved
Improving on Green Star Benchmarks	30C S	Stormwater	1		-	Exceeding Stormwater Pollution Targets		High	S P R 1 e	Stormwater Management Plan by Cardno Table 4-1 Performance Achieved meets the Green Star Requirements. 1 additional innovation point can be achieved for exceeding the minimum requirement.					As-built documentation showing the civil design is required.	If additional stormwater pollutant control targets of column B in Green Star manual table have been met by the implement stormwater treatment system, please provide statement confirming civil as built is in accordance with this target
	30D C B	Community 3enefits	1	1	Head Contractor	A 'needs analysis' of the surrounding community is required but TQ has been approved on usign community use of schools facilities policy instead. Still community engagement activies and a plan is required.	This innovation challenge/claim is general across all SINSW projects	High				As per the EFSG DG16.08 - Environmental Impact Statement_CCPS not received in the current package.	Refere evidence provided in the EFSG P2- DG16.08 - Community Use of Facilities. Evidence provided in Round 1: - Environmental Impact Statement_CCPS	1 point can be achieved as per the community use of the school grounds as per the EIS noted but please provide TQ from the GBCA.	No updated document received	Standard schools practice, and evidence to be provided by school / SINSW in support of this innovation point

Green Star - Design & As Built Gap Assessment

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Project:	Porters C	reek Public School												
Targeted Rating:	4 Star - Be	est Practice												
Revision	06 FINAL													
Points Available	100	Equivalence to Green Star outcome												
Points Required	45	Low	0	0%										
Points Targeted	45.6	Med	10	21%										
Safety Margin	0.6	High	38	79%										
Rating Achieved	4 Stars	TOTAL	48	100%										
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	Compliance Requirements	SINSW approach to achieve best practice outcome	Equivalence to Green Star outcom	WSP Review Comment 11/12/2020	WSP Review Comment 28/04/2021	Stantec Review Comments 06/05/2021	WSP Review Comment 05/07/2021	Stantec Review Comments 09/10/2021	WSP Re
Innovation Challenge	30D	Integrating Healthy Environments	1	1	Head Contractor	Research report behind Healthy Canteen Policy Evidence of roll out of policy in initial schools and expansion into all schools. Evidence that it has been incorporated into the school under assessment	This innovation challenge/claim is general across all SINSW projects	High				No information provided for this credit yet.	To be provided at as built	Noted
	30D	Powered by Renewables	3	1	Head Contractor/Electrical	1 point available for 15% of annual consumption sourced from renewables. 2 points for 30%. Another point available for electricity storage procurement/installation	One point may be achievable for 15% electricity sourced from PV system. Need to meet 15% threshold to achieve the point.	High		1 Point can be achieved as per the Energy Report.				
	30E	Amenity Space	1		Head Contractor	Compliance demonstrated using staff room amenities but still needs to be documented as per credit requirements (TQ)	This innovation challenge/claim is general across all SINSW projects	High						
Global Sustainability	30E	Digital Infrastructure	1	1	Head Contractor	FTTP and Fixed wireless connectivity to be provided	This innovation challenge/claim is general across all SINSW projects	High	Targeting this point requires further discussion. This Green Star Communities credit is currently not included in the list of credits to be targeted under this innovation point.			No information provided for this credit yet.	To be provided at as built	Noted
	30E	Green Cleaning	1	1	Head Contractor		This innovation challenge/claim is general across all SINSW projects	High				No information provided for this credit yet.	To be provided at as built	Noted

DEMONSTRATED ACHIEVABLE

view Comment 06/12/2021	

WSP Review Comment 15/07/	2022 WSP Final Review 06/10/2022
No information provided for this credit yet	Standard schoiols practice, and evidence to be provided by school / SINSW in support of this innovation point
As built documents reviewed against docur the Energy Modelling Report. Immaterial cl between the design thus Energy Modelling valid in the As Built.	nents used for nanges Report is still
As built architectural drawings reviewed	Can be achieved
No information provided for this credit yet	. Can be achieved
No information provided for this credit yet	Refer EFSG ESD schedule responses to P3 - Welcoming Learning Spaces after DG2.5.3