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Preliminary Ecological Appraisal

Survey Site:

Thomas's College, Queen's Rd, Richmond Hill, London, TW10 6JP

Client:

Thomas's London Day School – Thomas's College

Survey Date:

7th October 2024

Project:

This report is prepared to inform a planning application with the London Borough of Richmond. The proposal is described as: New covered MUGA to replace the existing open air MUGA like for like.

PEA survey methodology and legislation can be found in the Arbtech Supplement: **PEA Methodology and Legislation - 2024.** The survey results and recommendations contained within this report are valid for 18 months. An updated site visit may be required if the report is to be used any longer than 18 months after completion.

 The site survey was undertaken by Michelle Huang, BS, MRes DIC (Accredited Agent under Natural England Bat Licence Number: 2019-41480-CLS-CLS).

 Date of Survey
 Temperature (°C)

 Humidity (%)
 Cloud Cover (%)

 Wind (m/s)
 Bain

Date of Survey	Temperature (°C)	Humidity (%)	Cloud Cover (%)	Wind (m/s)	Rain
7 th October 2024	20.1	62.2	50	0.3	None

Ecological Survey Factor	Detailed using desk study and site survey (carried out under good weather conditions). Any specific limitations noted within its relevant section. This table may include further work you will need to
Conclusion, Impact or	commission (if any) to obtain planning permission or comply with legislation for other consent. All clients
Recommendations	are expected to read and understand this section, or to contact the lead surveyor for advice.
	See habitat map in Appendix 1, location plan in Appendix 2, proposal plan in Appendix 3, and photos in
	Appendix 4.
Habitats and Plants	
Botanical species are described	d with reference to the DAFOR scale (D = Dominant; A = Abundant, F = Frequent, O = Occasional, R = Rare).
Summary of Survey Findings The site is centred at National Grid Reference TQ 18465 74038 and has an area of approximately (
	The site is characterized by a concrete pathway which leads to an existing concrete Multi-Use Games Area (MUGA) surrounded by introduced shrubs, cypress hedges, and various scattered trees. The site is situated within Thomas's College, a secondary school characterised by sealed surfaces (access paths, parking spots, buildings, and the MUGA), areas of modified grasslands, introduced shrubs, and a number of mature trees. The wider landscape comprises urban-built up areas to the north/northwest and green spaces (i.e. Richmond Park and its surrounding areas and golf courses) to all other aspects.

The site is dominated by sealed surfaces acting as an access road, limited parking spaces, and the MUGA itself. Sealed surfaces are not subject to condition assessments. Urban: suburban mosaic of developed and natural surface – educational premises open space with introduced shrubs, bare ground, and scattered trees [uld 814 847 540 32] – Figures 8-10 and 13-18 Introduced shrubs are planted along the western and the majority of the eastern periphery of the existing MUGA. Species comprise Hypericum sp., holly, Japanese laurel, privet, palms, rhododendron, and cherry laurel. Introduced shrubs are not subject to condition assessments. Areas of bare ground are present under the cypress hedges and along the understorey of trees which serves as the entrance from the driveway to the MUGA. Such areas comprise minimal vegetation, including sparse ryegrass and forbs such as white clover, daisies, and dandelions. Scattered trees surrounding the MUGA range from young to mature and comprise mature Austrian pine, redwood, cherry, silver birch, magnolia, alder, gingko, apple, cypress, and lilac.
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Heathland and shrub: non-native and ornamental hedgerow [h2b] - Figures 11-12
Two cypress hedges line the northern and southern peripheries of the existing MUGA.
Approximate dimensions: 2m tall x 1m wide x 26m (H1) / 18m (H2) long
<i>Foreseen Impacts</i> Habitats on site comprise sealed surfaces, introduced shrubs, bare ground, scattered trees, and non-
native, ornamental cypress hedges. Rhododendron and cherry laurel were identified within the introduced
shrubs. Bar the two invasive species, other habitats on site are common and widespread and have low

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	ecological value. There are no notable habitats (i.e. protected or notable plant species) within the site but		
	five priority habitats are present within 2km of the site, the closest being deciduous woodlands,		
	woodpasture & parkland, and lowland dry acid grasslands within Richmond Park ~200m southeast of the		
	site.		
	No direct impacts to any notable habitats will occur as a result of the proposed development. However,		
	due to the proximity of the site to scattered trees and cypress hedges, indirect effects such as pollution or		
	tree damage could occur during construction. Tree works are anticipated (i.e. trimming) to facilitate the		
	provisioning of the proposed canopy structure.		
Recommendations	Best practice measures to minimise the possibility of pollution must be implemented during construction.		
	Retained trees/hedgerows should be protected in line with the measures outlined in the British Standard		
	"Trees in Relation to Design, Demolition and Construction to Construction - Recommendations" (BS 5837)		
	(2012). A Construction Environment Management Plan (CEMP) may be required for this.		
	A suite of tree surveys, including an Arboricultural Impact Assessment, is recommended.		
Locality and Designated Sites			
Summary of Survey Findings	The site is not subject to any designation.		
	There are 2no. statutory designated sites within a 2km radius, the closest of which is the Richmond Park		
	National Nature Reserve (NNR)/Site of Special Scientific Interest (SSSI)/Special Area of Conservation		
	(SAC) located ~200m southeast of the site. Richmond Park is of importance for its diverse deadwood		
	beetle fauna (with stag beetles being an Annex II species that are a primary reason for the selection of		

	this site as an SAC) associated with the ancient trees. It also supports the most extensive area of dry acid
	grassland in Greater London. The other is the Ham Common Local Nature Reserve (LNR) located ~100m
	south of the site which comprises birch and oak woodlands with wet hollows and acid grasslands. The
	site is located within the impact risk zone of Richmond Park SSSI but the proposed development is not
	listed as a possible high risk with regards to this designation.
	Non-statutory sites within a 2km radius were retrieved from Greenspace Information for Greater London's
	Sites of Importance to Nature Conservation (SINCs) Open Data (GiGL, 2022). There are 7no. non-statutory
	sites within 1km of the site, the closest being the Terrace Field and Terrace Garden SINC located ~175m
	west of the site. The grassland is of moderate diversity. The sward is dominated by cock's-foot and meadow
	foxtail, with wildflowers including meadow vetchling, common vetch, cow parsley and bulbous buttercup
	There are some fine old field maples along the top edge of the field beside the road, and an overgrowr
	hedge at the bottom. A nationally scarce spider, Philodromus praedatus, has been found in the roadside
	trees. Terrace Garden, adjacent to the field, is a more formal park. Here amenity grassland, mature planted
	trees; shrubberies and flower beds predominate, contrasting with the wilder hay meadow and scrub of the
	field. These habitats, while of less intrinsic interest than the hay meadow, provide a diversity of habitat
	structure and more niches for animals and plants dependent on woodland, scrub and trees. In places, the
	mowing regime has been relaxed, allowing a more diverse vegetation to develop and providing usefu
	habitat for grassland invertebrates.
Foreseen Impacts	No impacts to designated sites are anticipated due to the small scale and distance of the proposed
	development from such sites (where known) as well as the urban location of the site with surrounding
	physical barriers.

Recommendations	N/A					
Invasive / Non-native species	•					
Summary of Survey Findings	No Schedule 9 invasive	species were identifie	ed on site. Rhododendro	on (Rhododendron ponticum) and		
	cherry laurel (Prunus la	a <i>urocerasus</i>) were ide	ntified on the site (Fig	ures 17-18). Rhododendron is a		
	Schedule 9 species per t	he Wildlife and Country	/side Act 1981, while ch	erry laurel is an additional invasive		
	species relevant to Lond	on per the London Inva	sive Species Initiative (L	ISI).		
Foreseen Impacts	Existing specimens of rh	nododendron and cher	ry laurel are understood	to be retained in full. As such, no		
	risk of the spread of suc	h species is anticipated	J.			
Recommendations	No further surveys but re	emain vigilant.				
Bats						
Summary of Survey Findings	A review of the MAGIC database revealed 3no. granted European Protected Species Licences (EPSLs)					
	within a 2km radius, which are summarised in the table below.					
	EPSL Reference	Distance from Site	Species Impacted	Impacts Granted		
	2019-43456-EPSMIT	~850m southwest	Brown long-eared bat Soprano pipistrelle	Damage of a resting place Destruction of a resting place		
	2016-25082-EPSMIT	~1850m southwest	Brown long-eared bat Common pipistrelle Soprano pipistrelle	Destruction of a resting place		
	2016-27025-EPSMIT	~1950m north	Brown long-eared bat Serotine Soprano pipistrelle	Damage of a resting place		
			-	habitats for foraging and rby roosts outside of the site and		
	commuting around the a	-		-		

	commuting resource for bats in the context of the wider landscape, though bats may utilise habitats
	within the wider site ownership boundary as a whole for foraging and commuting purposes. Three
	existing light structures were found along the eastern periphery of the existing MUGA, an example of
	which is pictured in Figure 20. Habitats in the wider landscape, such as woodland copses, grasslands,
	linear features such as hedgerows, and water features such as ponds within green spaces such as
	Richmond Park and neighbouring golf courses provide more ideal habitats for foraging and commuting
	bats.
	A dead, unidentified tree is located centrally north of the northern periphery of the MUGA (TQ 18460
	74061). There is a knot hole (Figure 19) present on its western aspect approximately 2m above ground
	level. Due to the uncertain extent of the knot hole, notably whether there are suitable crevice-dwelling
	features internally, this tree is, at this point, classed as having potential roosting features (PRF).
Foreseen Impacts	The proposed development may lead to an increase in the amount of current lighting of surrounding
	habitats or the retained building without mitigation. This may disturb commuting bats.
	The dead tree has a PRF, which could be suitable for roosting bats. If this dead tree will be removed,
	further survey efforts will be required, as the removal of this tree could result in the destruction of any
	bat roosts present and could cause disturbance, death, or injury to bats.
Recommendations	A low impact lighting strategy will be adopted within the proposed development. This will be designed in
	accordance with Guidance Note GN08/23 Bats and Artificial Lighting at Night (Institution of Lighting
	Professionals, 2023).

	ne dead tree, if set for removal, will require an endoscope survey to discern whether the PRF identified is
su	uitable for roosting bats or contain evidence of a roost. The survey is not seasonally restricted and can
tal	ke place at any time. If the endoscope survey reveals suitability for roosting bats or signs of previous
oc	ccupancy by bats, the appropriate amount of dusk bat emergence surveys will be required: for low roost
su	uitability (PRF-I), no further emergence surveys required; for high roost suitability (PRF-M), 3no.
en	mergence surveys required with each visit spaced at least three weeks apart during the active bat season
(m	nid-May to September inclusive, with 2no. visits required between mid-May and August inclusive). These
en	nergence surveys will require 2no. surveyors per visit and infrared cameras should be used as an aid. If
ba	at roosts are confirmed an EPSL application to Natural England will be required. The EPSL application
rec	quires that surveys have been undertaken within the most recent active bat season and planning
pe	ermission must have been granted and all relevant wildlife-related conditions have been discharged prior
to	submission. As the use of tree roost by bats can be extremely transient, regardless of the results of dusk
ba	at emergence survey efforts, an inspection of the features should be undertaken immediately prior to
fel	lling by an arborist with qualifications in line with BS8596: surveying for Bats in Trees and Woodlands.
lf,	alternatively, the dead tree will be retained in full, no further survey efforts are required.
En	nhancement opportunities for bats include:
	The installation of 2no. bat boxes, fit on retained, mature trees around the site's boundaries, will
	provide additional roosting habitats for bats. Bat boxes should be positioned 3-5m above ground
	level facing in a south or south-westerly direction with a clear flight path to and from the
	entrance, away from artificial light. The bat boxes will be a specification suitable for both crevice-

	and void-dwelling species such as the Schwegler 45/2F Bat Box 2FDFP (WildCare) or a similar	
	alternative brand.	
Birds		
Summary of Survey Findings	No habitat for schedule 1 birds was observed. Evidence of disused birds' nests were found on mature	
	trees in close proximity to the existing MUGA (Figure 16).	
Foreseen Impacts	The proposed development could result in the destruction or the disturbance and subsequent	
	abandonment of active bird nests.	
Recommendations	Any tree works should be undertaken outside the period 1 st March to 31 st August. If this timeframe	
	cannot be avoided, a close inspection of the vegetation should be undertaken immediately, by a qualified	
	ecologist, prior to the commencement of work. All active nests will need to be retained until the young	
	have fledged. Precautions should be taken with machinery and noise levels when working close to any	
	active nests so as not to disturb any nearby nesting birds during construction works. At least a 3-5m	
	buffer should be created between any machinery and active nests until the young have fledged.	
	Enhancement opportunities for birds include:	
	Installation of 3no. bird boxes mounted on retained, mature trees along the site's boundaries wil	
	provide additional nesting opportunities for birds. Nest boxes should be sheltered from prevailing	
	wind, rain, and strong sunlight, and should be placed on an open aspect with no trees or large	
	shrubs potentially obstructing flight paths.	
Herpetofauna		
Summary of Survey Findings	There are no ponds on site, and one pond within a 500m radius (P1, ~250m southeast) which is situated	
	within Richmond Park. Habitats on site are largely unsuitable for great crested newts due to their intensely	

	managed nature and lack of connectivity to water features; notably, they are typically found within		
	terrestrial habitats of up to 500m from breeding ponds (Langton et al., 2001). A review of the MAGIC		
	database returned five great crested newt class survey licence returns within a 2km radius, all of which		
	situated within Richmond Park and all detected the presence of great crested newts. The closest pond (P2)		
	is ~1900m southeast of the site. Though semi-natural habitats within Richmond Park provides connectivity		
	from P2 to P1, great crested newts are unlikely to disperse from P1 onto site as they are separated by		
	urban infrastructure such as buildings and tarmacked roads. Given the wider context of the surrounding		
	habitat and the fidelity of great crested newts to ponds and the lack of connectivity of the site from such		
	suitable breeding ponds, they are unlikely to be on site.		
	Common amphibian and reptile species, on the other hand, have a wider terrestrial range in terms of		
	movements and dispersal and are not as bound to ponds or water courses as great crested newts.		
	Introduced shrubs on site provides suitable albeit limited habitats for foraging and sheltering common		
	amphibian and reptiles.		
Foreseen Impacts	No impacts are anticipated on great crested newts, as a result of the proposed development as this		
	species is unlikely to be on site.		
	All existing vegetation is set to be retained (bar possible tree pruning works). However, construction		
	works could result in the death or injury of common amphibians or reptiles, if present and crossing the		
	construction zone.		

Recommendations	Owing to the nature of the proposed development and the low potential for impacts to great crested newts,
	further surveys are considered to be disproportionate. A precautionary working method will be
	implemented for common amphibians and reptiles during construction, including the following measures:
	Any rubble piles will be dismantled by hand and debris and brash will be stored on pallets or
	removed from the site to prevent common amphibians or reptiles from utilising these areas.
	Any excavations will be covered overnight, or a ramp will be installed to enable any trapped
	animals to escape.
	Best practice pollution prevention measures will be implemented to minimise impacts to nearby
	aquatic habitats that amphibians could use.
	Any chemicals or pollutants used or created by the development should be stored and disposed of
	correctly according to COSHH regulations.
	If any common amphibians or reptiles are found in the working area these should be allowed to
	disperse of their own accord or, if at immediate risk, should be moved by hand to a sheltered,
	vegetated area away from disturbance.
	In the unlikely event that a great crested newt is identified, works must cease and advise must be
	sought from a suitably qualified ecologist.
	Grasslands of longer sward height, compost heaps, or log piles will provide additional suitable habitats
	for amphibians and reptiles.
Badger	
Summary of Survey Findings	No evidence of badgers was found on site or suspected within 30m of the site boundary. Though such
	managed modified grasslands in the wider site ownership make for suitable foraging and commuting

	habitats, badgers are creatures of habit and no established mammal trails, evidence of latrines, or setts
	were found on or around the site. As such, the presence of badgers has been discounted.
Foreseen Impacts	No impacts are anticipated on badgers as a result of the proposed development.
Recommendations	N/A
Hazel Dormouse	
Summary of Survey Findings	No EPSLs were returned by MAGIC within a 2km radius. The site features no habitats which might provide
	opportunities for hazel dormouse, such as established woodland or mature, native hedgerows as it is
	based in an urban setting. Given the wider context of the surrounding habitats, hazel dormice are unlikely
	to be present on site.
Foreseen Impacts	No impacts are anticipated on hazel dormice as a result of the proposed development.
Recommendations	N/A
Riparian Animals	
Summary of Survey Findings	There are no watercourses on or connected to the site.
Foreseen Impacts	No impacts are anticipated on riparian animals as a result of the proposed development.
Recommendations	N/A
Invertebrates	
Summary of Survey Findings	Introduced shrubs, scattered trees, and the cypress hedges are able to support an assemblage of common
	invertebrate species. The site is unlikely to support notable invertebrate species.
Foreseen Impacts	All existing vegetation is set to be retained (bar possible tree pruning works). No impacts are anticipated
	on invertebrates as a result of the proposed development.
Recommendations	Enhancement opportunities for invertebrates include:
	 Installation of insect hotels.

Other e.g. hedgehog			
Summary of Survey Findings	Hedgehogs are extremely mobile and highly adapted to urban landscapes. There is limited suitability for		
	foraging, commuting, and sheltering hedgehogs on site within the introduced shrubs and cypress hedges		
	and their presence during works cannot be discounted.		
Foreseen Impacts	All existing vegetation is set to be retained (bar possible tree pruning works). However, construction		
	works could result in the death or injury of hedgehogs, if present and crossing the construction zone.		
Recommendations	A precautionary working method will be implemented during construction, including the following		
	measures:		
	 Any excavations will be covered overnight, or a ramp will be installed to enable any trapped animals to escape. 		
	The use of night-time lighting will be avoided, or sensitive lighting design will be implemented to avoid light spill on to retained habitats which hedgehogs could use.		
	Any chemicals or pollutants used or created by the development should be stored and disposed of correctly according to COSHH regulations.		
	If any hedgehogs are found in the working area these should be allowed to disperse of their own		
	accord or, if at immediate risk, should be moved by hand to a sheltered, vegetated area away from disturbance.		
	Enhancement opportunities for hedgehogs include:		
	Installation of gaps under boundary fences to allow hedgehogs to pass through the site.		



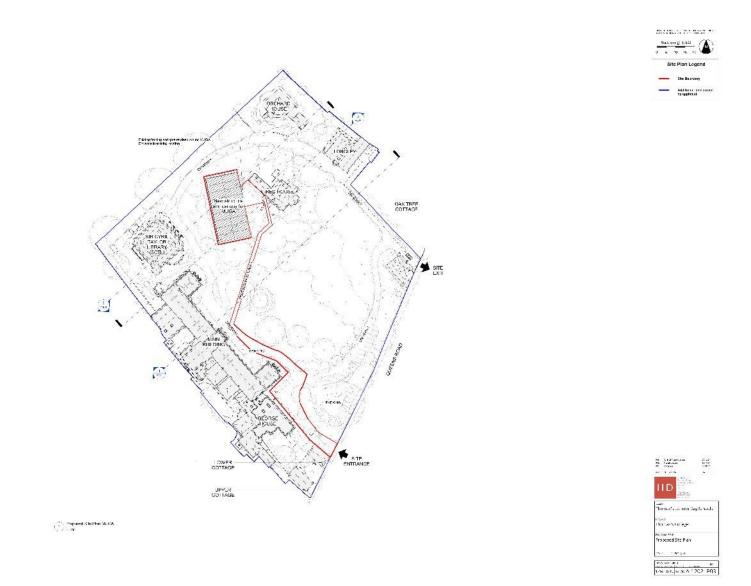
Appendix 1: Survey/Habitat Map



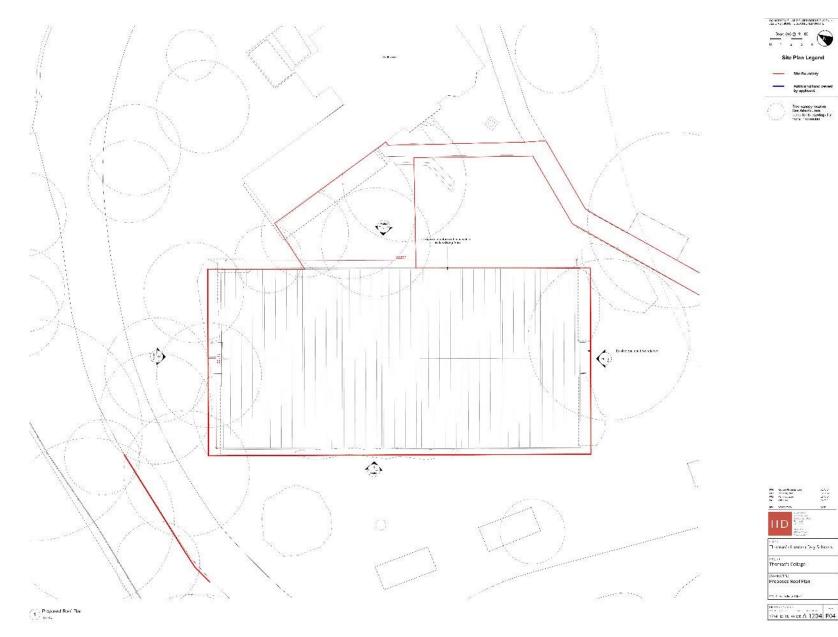
Appendix 2: Location Map



Appendix 3: Proposed Plan



Thomas's College, TW10 6JP







Figures 1 (opposite), 2 (bottom left), and 3 (bottom right).

Sealed surface pathway which leads to the existing MUGA, lined with grasslands, trees, hedgerows, and introduced shrubs.



Thomas's College, TW10 6JP



Figures 4 (top left), 5 (top right), 6 (bottom left), and 7 (bottom right). Existing MUGA from each corner, demonstrating the extent of vegetation in close proximity to the border fence.

Thomas's College, TW10 6JP



Figures 8 (opposite), 9 (bottom left), and 10 (bottom right).

Introduced shrubs surrounding the existing MUGA.





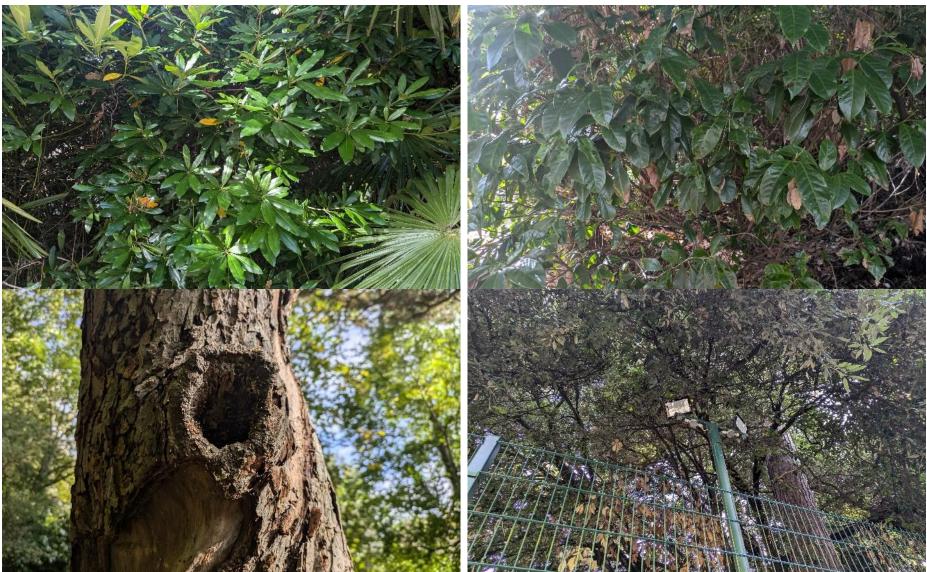
Preliminary Ecological Appraisal and Preliminary Roost Assessment

Figures 11 (top) and 12 (bottom).

Cypress hedges H1 (Figure 11) and H2 (Figure 12).



Figures 13 (top left), 14 (top right), 15 (bottom left), and 16 (bottom right). Scattered trees in close proximity to the MUGA. Disused bird's nests are pictured in Figure 16.



Figures 17 (top left), 18 (top right), 19 (bottom left), and 20 (bottom right). Target notes: rhododendron, cherry laurel, knothole within dead tree, and existing lights for the MUGA.

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Version Control			
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Final	1.0	Michelle Huang (BS, MRes DIC); Consultant Ecologist	21 st October 2024
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