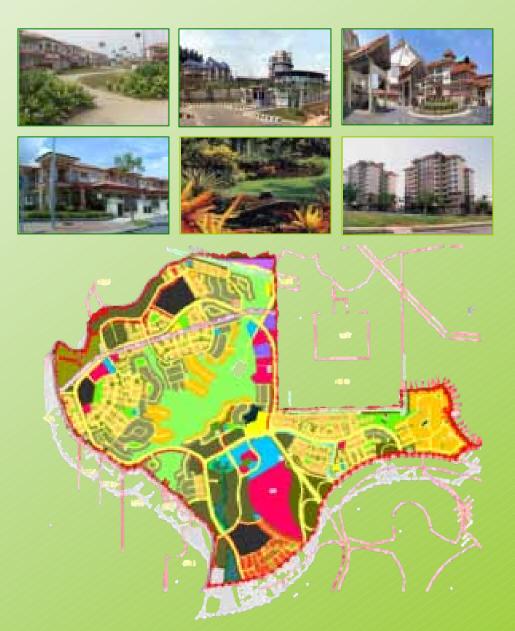
# LOCAL PLAN MANUAL P U T R A J A Y A PRECINCT 11



## PERBADANAN PUTRAJAYA **APRIL**, 2002



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#### 1.0 Introduction

Physical Planning Requirement Planning Block 1 (PB1) Physical Planning Requirement Planning Block 1 (PB2) Physical Planning Requirement Planning Block 1 (PB3) Physical Planning Requirement Planning Block 1 (PB4) Physical Planning Requirement Planning Block 1 (PB5) Physical Planning Requirement Planning Block 1 (PB6) Physical Planning Requirement Planning Block 1 (PB7) Physical Planning Requirement Planning Block 1 (PB8) Physical Planning Requirement Planning Block 1 (PB9) Physical Planning Requirement Planning Block 1 (PB10) Physical Planning Requirement Planning Block 1 (PB11) Physical Planning Requirement Planning Block 1 (PB12) Physical Planning Requirement Planning Block 1 (PB13) Physical Planning Requirement Planning Block 1 (PB14) Physical Planning Requirement Planning Block 1 (PB15) Physical Planning Requirement Planning Block 1 (PB16) Appendix

#### **Glossary Of Abbreviation**

PB	-	Planning Block
Min	-	Minimum
Max	-	Maximum
Ha	-	Hectares
Ac	-	Acre
Cps	-	Car Parking Space
М	-	Metre
M2	-	Aquare metre
No	-	Number





L A N

#### 1.0 INTRODUCTION

#### 1.1 Manual

This report forms the second part to the Draft Local Plan. It provides a manual on the detailed development guidelines, which explains further all the development strategies in the Key Plan and first report.

These guidelines aim to assist the local planning authority in facilitating the processing of plan application and in the decision making. This report also provides information to the potential developer of the physical requirements necessary to be included within this precinct.

This manual has tabulated the salient features for the development within each planning block.

There are altogether 16 planning blocks within Precinct 11. For each planning block, the key guidelines cover 3 main aspects. These are :

а.	Physic	al Development Guidelines
	i.	Planning Guidelines
	ii.	Transportation Guidelines
	iii.	Infrastructure Guidelines
b.	Lands	cape Guidelines
C.	Urban	Design Guidelines

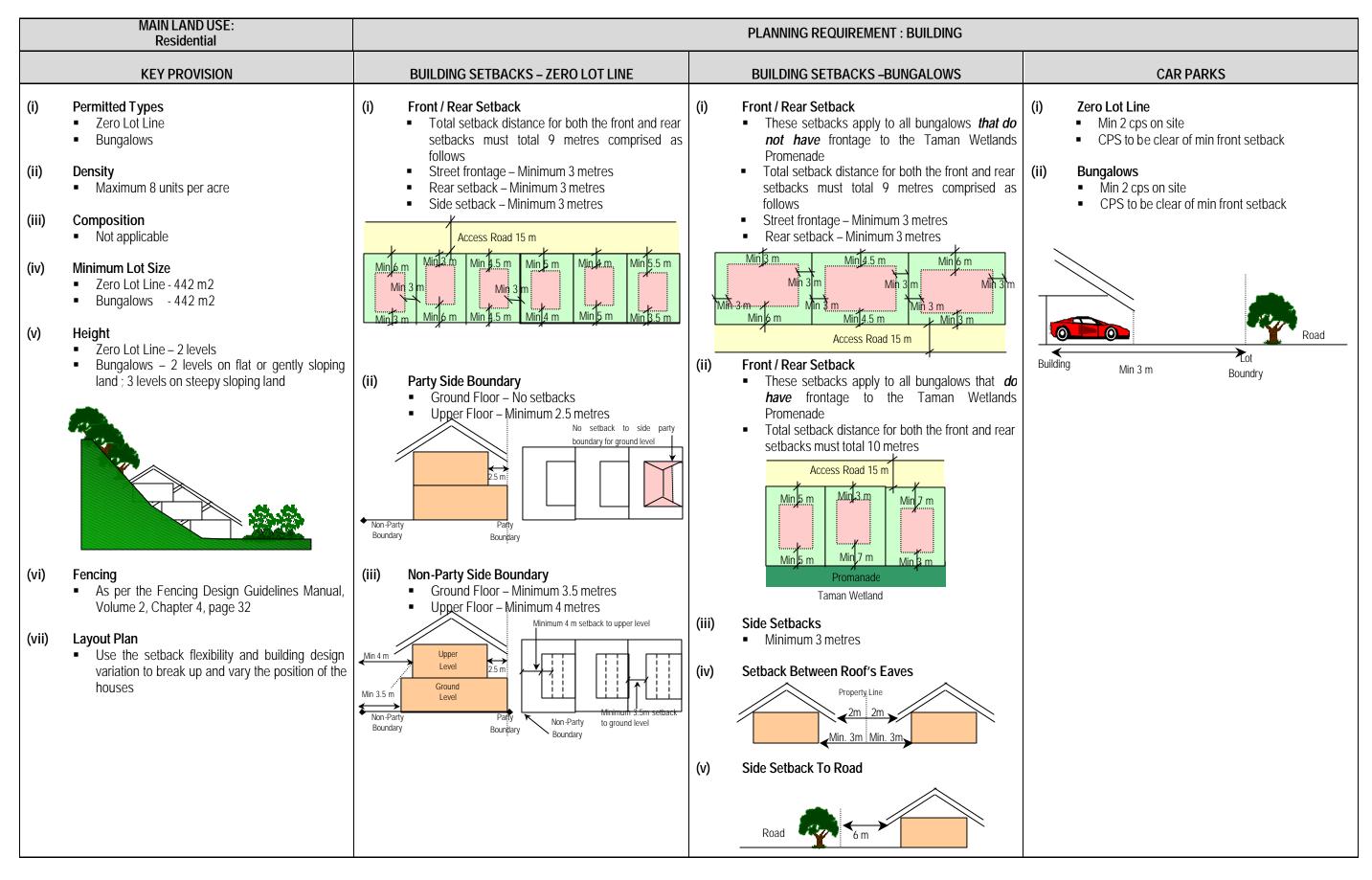
Each guideline will features on the main land uses within each planning block

#### 1.2 Urban Design Guidelines

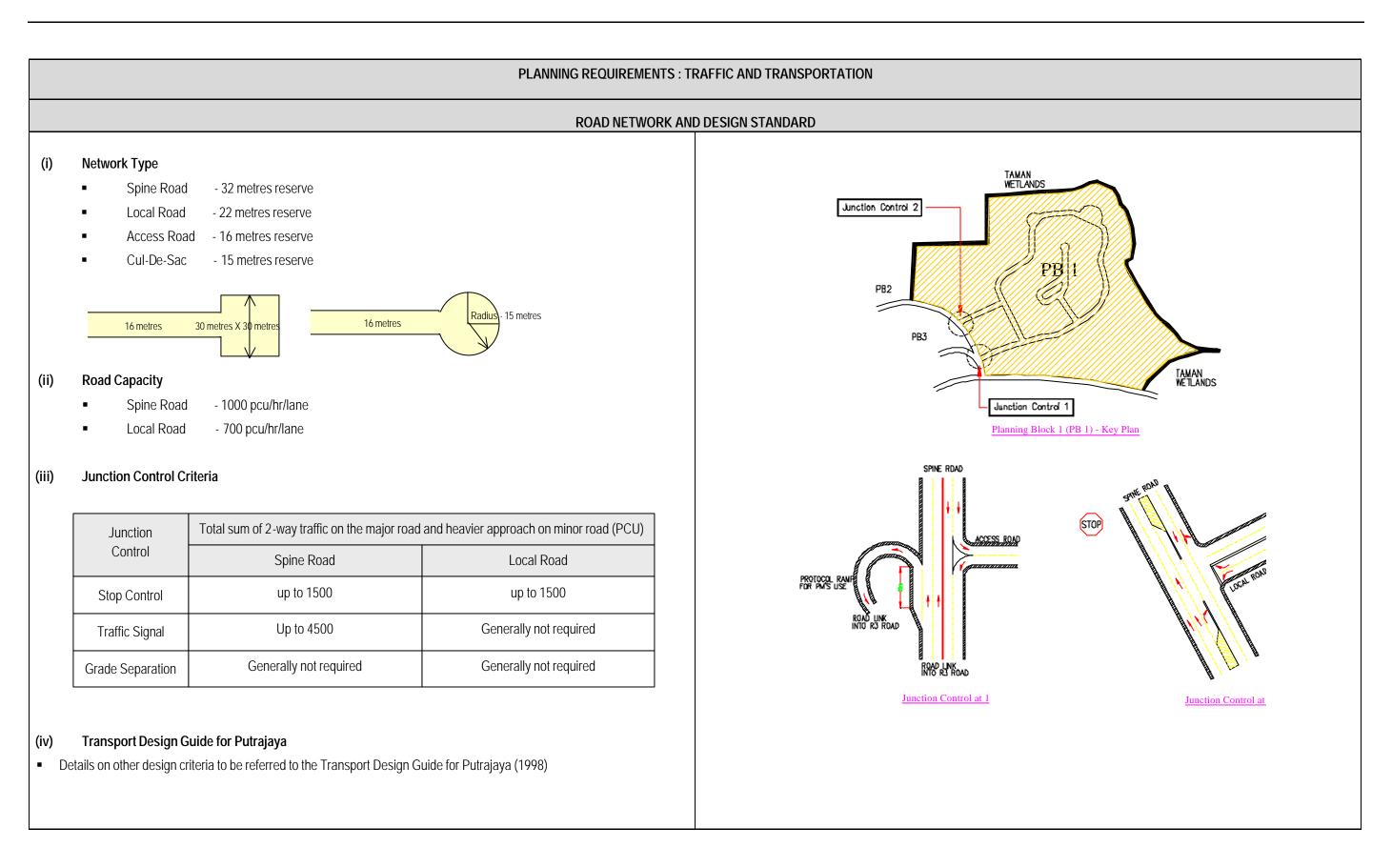
Perbadanan Putrajaya has formulated a set of Urban Design Guidelines (UDG). For any standards and guidelines not stated in this report, reference will have to be made to the UDG.



#### PHYSICAL PLANNING REQUIREMENTS PLANNING BLOCK 1 (PB 1)

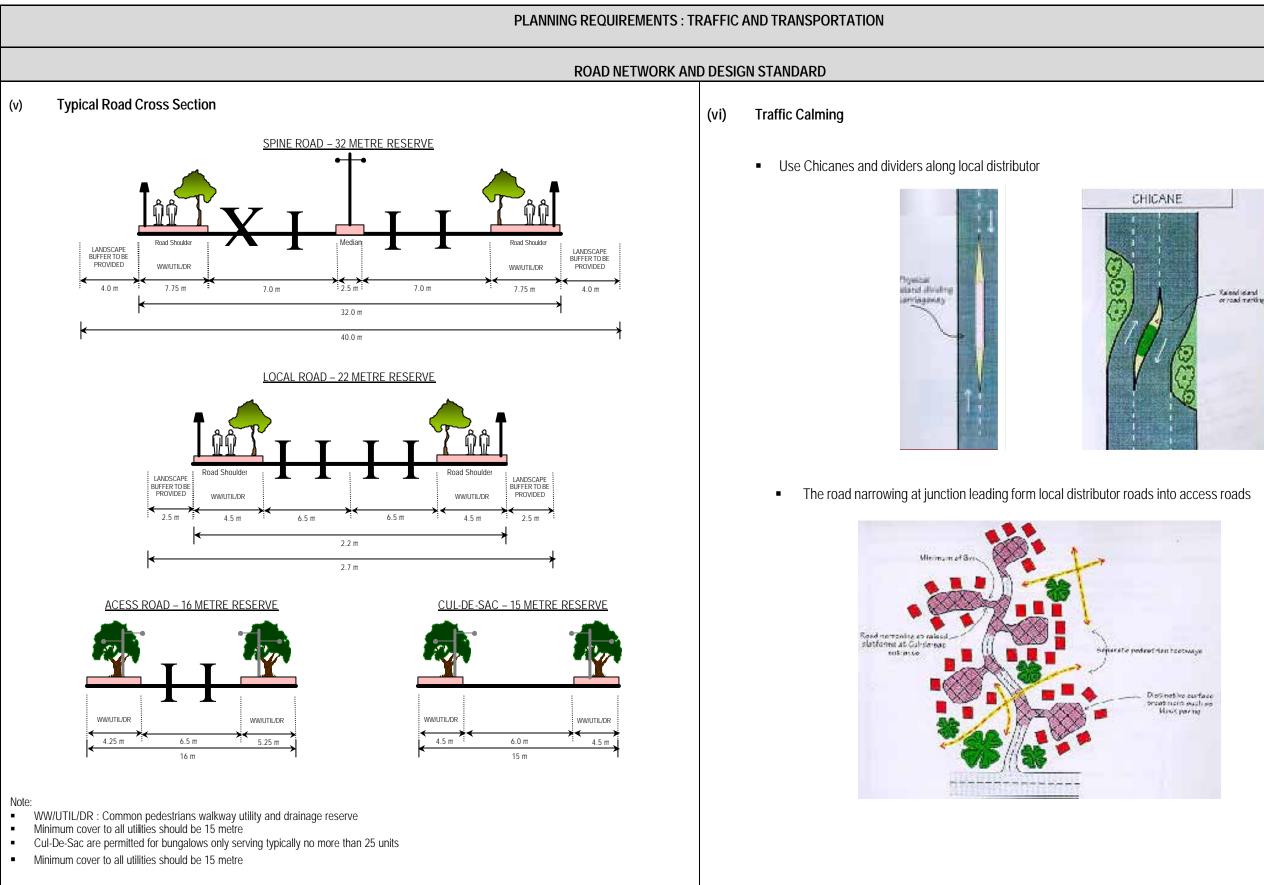








PLAN

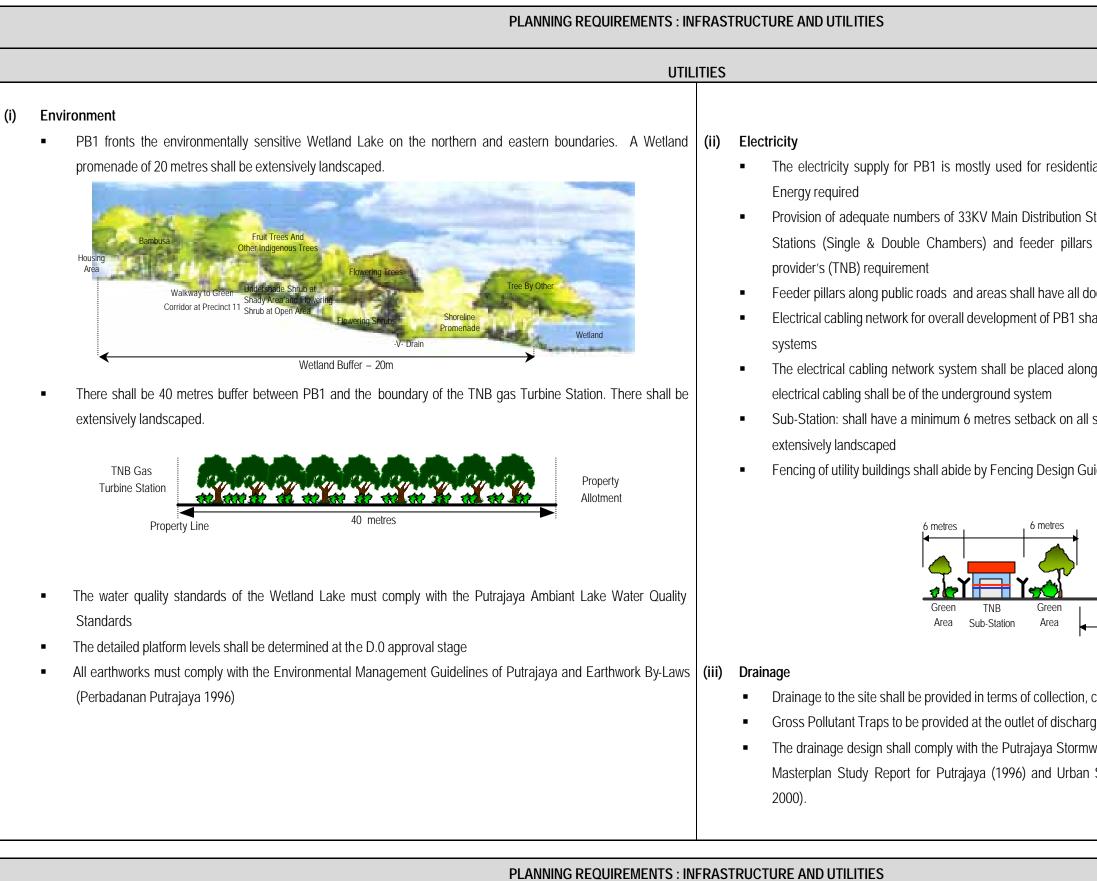












l Plan
ntial which are approximately 90% of the total Electrical
Station (MDS) to be supported by a series of 11KV Sub- rrs at strategic locations to comply with the electricity
doors to open away from road and public view. shall consist of 33KV, 11KV and 415V distribution network
ong the utility reserves to conform to the no dig policy All
all sides to the nearest residential building These shall be
Guidelines-Vol. 2, Chap 15 pg. 132
Road 15 metres House
n, conveyance and retention of flow from the site arge points
mwater Management Design Guidelines (1998), Drainage In Stormwater Management Manual for Malaysia, (JPS,

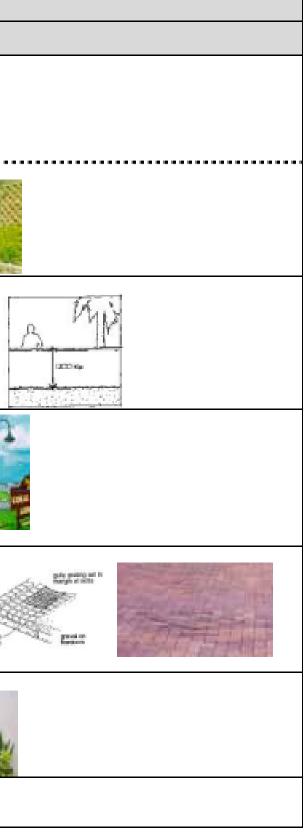
#### UTILITIES (iv) Sewerage (vi) Waste Disposal A network of gravity sewer reticulation to collect sewage from the precinct (Level 3 works) Solid waste management in PB1 shall address reduction, reuse, recycling and recovery, the 4 R's of waste From these reticulation networks, sewage will be discharged into the centralized trunk sewer system of Putrajaya management (Level 1 & 2 works) at appropriate points Solid waste is proposed to be separated at source, by residents or employees, into three streams; dry recycles, wet The trunk sewers will terminate at two pump-stations. These two pump stations are PS1 in Precinct 9 and PS9 • waste and rubbish (all other wastes) The dry recyclable is to be further separated at source into containers and (Levels 1 & 2 works) located at the south of precinct 11, next to Road R3 fiber materials From PS1 and PS9, sewage will be conveyed via the centralized trunk sewer system to STP2 for treatment The sensitivity of the site in terms of waste management relates to the operational requirements of Precinct 11, However, STP2 is not scheduled to be ready until Year 2003 In the interim, sewage discharge will be temporary which require that no burial of material is undertaken during the construction phase directed to the sewage switching station PS5 for onward conveyance to STP1 for treatment until the completion of In addition to control odour nuisance to any sensitive receptors biodegradable waste cannot be left at the site for STP2 extended periods The buffer for a closed STP shall be 10 m to the nearest property boundary The waste management shall comply with Urban Design Guidelines and Environmental Guidelines for Putrajaya The buffer for an open STP system shall be 30 m to the nearest property boundary For low rise residential, refuse chamber is to be placed in front of the house, either left or right of the driveway and near to main road for the ease of mechanical collection The estimated generation of solid waste is 5kg/unit/day The estimated generation of solid waste for recreation park/public transport stop station are 0.2 kg/visitor, Pump Station Property 300L/1000m<sup>2</sup>(gross floor area) for shopping complex and 500L/1000m<sup>2</sup>(gross floor area) for restaurant. Roundar Access road must be constructed for the ease of mechanical collection and public use Obstructions to any . collection vehicle's access must be disallowed at all time House Road 10 metres Commercial 5 metres minimu Access and Screening (v) Gas The gas supply for PB1 is mostly used for residential which are approximately 80% of the total gas requirements (vii) Water Supply Gas supply for PB1 will be served from a District Gas Station located at Precinct 9 through a medium pressure gas Water supply to PB1 shall be consistent with the provision of water supply master plan for Putrajaya pipeline Storage reservoir and pumping station together with the rising and falling mains shall be planned to serve this area Provisions of 4 nos of area Gas Station are allocated within the Precinct 11 development to cater for the projected in compliance with Jabatan Bekalan Air (JBA) requirement, and Design Criteria and Standards for Water Supply gas loading requirements, with total area reserve of 113 acres System, JKR (1989) Low-pressure gas pipeline reticulation from the Area Gas Station is planned to serve the gas requirements for the Platform for a water tower to follow landform and earthworks required should be sympathetic to the terrain residential, commercial and other amenities Land reserve for water tower should provide for all setback requirement and necessary slopes to be accommodated Safety provision for construction within the vicinity The design of the water tower shall comply with Design Criteria and Standards for Water Supply Systems (For details of Gas Pipeline Reserve Design refer Appendix 1) Approach road may be designed for occasional usage The design of water tower should be aesthetically compatible with the neighbourhood

L	P	L	A	N	



			PLANNING REQU	IREMENT : LANDSCAP	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Residential (Landed)	<ul> <li>Paving, walls and steps</li> <li>Informal</li> <li>Formal</li> <li>Contemporary</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Durable</li> </ul>	<ul> <li>Building compound</li> </ul>	
		<ul> <li>Walls         <ul> <li>Key stone</li> <li>Concrete</li> <li>Fencing brick etc.</li> </ul> </li> </ul>	<ul> <li>Harmonize with surrounding</li> </ul>	<ul> <li>Building</li> <li>compound</li> <li>Building</li> <li>boundary</li> </ul>	
	<ul> <li>Fence, Gate and Barrier</li> <li>Contemporary</li> <li>Formal</li> <li>Traditional</li> </ul>	– Hardwood – Metal – Masonry	<ul> <li>To follow Fencing Design Guideline Putrajaya</li> </ul>	<ul> <li>Boundary line</li> <li>Entrance</li> </ul>	
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Informal</li> <li>Formal</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul> <li>Durable</li> <li>Attractive</li> <li>Safe</li> <li>Max. height of 4 meters</li> </ul>	<ul> <li>Building compound</li> </ul>	
	<ul> <li>Drainage         <ul> <li>Swales</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Concealed drains</li> </ul>	<ul> <li>Building lot</li> </ul>	Hard Bar and Andrew Hard B
	<ul> <li>Planting</li> <li>Formal</li> <li>Informal</li> </ul>	– Tree – Palm – Shrub – Groundcover	<ul> <li>Non-poisonous species</li> <li>Strong branch</li> <li>Medium size</li> </ul>	<ul> <li>Building compound</li> </ul>	
	<ul> <li>Irrigation Strategy</li> </ul>	<ul> <li>Tap from storage tank or</li> </ul>	r JBA main or tap from JBA main.		

PB 1 - 7





			PLANNING REQU	JIREMENT : LANDSCAI	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Hill Top Park	<ul> <li>Paving / Step, Wall and Kerbs</li> <li>Informal</li> <li>Robust</li> <li>Reflect character of adjacent neighbourhood</li> </ul>	<ul> <li>Paving/Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> <li>Grasscrete</li> </ul>	<ul> <li>Anti-Shipping surface</li> <li>Max. gradient 8%</li> <li>Durable</li> <li>Attractive</li> </ul>	<ul><li>Open space</li><li>Footpaths</li></ul>	
		<ul> <li>Wall</li> <li>Key stone</li> <li>Facing brick finish</li> <li>Concrete finish etc.</li> </ul>	<ul> <li>Harmonize with surrounding structure</li> </ul>	– Slope areas	
	<ul> <li>Site Furniture</li> <li>Robust</li> <li>Informal</li> </ul>	<ul> <li>Timber</li> <li>Metal</li> <li>Stone concrete</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Pedestriant walkway</li> </ul>	
	<ul> <li>Lighting         <ul> <li>Robust</li> <li>Minimal</li> <li>Reflect character of adjacent neighbourhood</li> </ul> </li> </ul>	<ul> <li>Timber</li> <li>Metal</li> <li>Concrete etc.</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Footpaths</li> <li>Cycle track</li> <li>Car park</li> <li>Open space</li> </ul>	
	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	<ul> <li>Where necessary</li> </ul>	And a state of the
	Irrigation Strategy	– Pipe reticulation from pond	and supported by trucking or tap f	orm JBA main	
	<ul> <li>Structures and Shelter</li> <li>Informal</li> <li>Vernacular</li> <li>Robust</li> </ul>	– Stone – Timber – Metal	<ul> <li>Sustainable design</li> <li>Proportion to human scale</li> <li>Functional</li> <li>Blend to the surrounding areas</li> </ul>	– Open space	





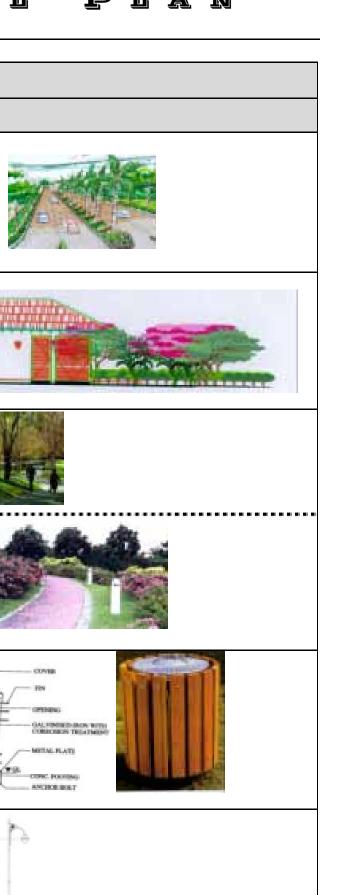


			PLANNING REQ	UIREMENT : LANDSCAI	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Hill Top Park	<ul> <li>Play features</li> <li>Integrated</li> <li>Robust</li> <li>Minimal</li> </ul>	<ul> <li>Metal</li> <li>Plastic</li> <li>Fiber glass</li> </ul>	<ul> <li>Conform to SIRIM standards</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Children's play areas for all age groups</li> </ul>	
	<ul> <li>Sports feature         <ul> <li>Reflecting natural features and topography</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Grass</li> <li>Concrete</li> <li>Sand</li> </ul>	– Durable – Safe	<ul> <li>Kick around areas</li> <li>Games court</li> </ul>	
	<ul> <li>Signage         <ul> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Timber</li> <li>Metal</li> <li>Stone</li> </ul>	<ul> <li>To following Signage and Advertisement Design Guideline, PJC</li> </ul>	<ul> <li>Directional</li> <li>Entrance sign</li> </ul>	
	<ul> <li>Fences, Railings and Barriers         <ul> <li>Follow UDL guideline</li> <li>Robust</li> </ul> </li> </ul>	<ul> <li>Timber</li> <li>Metal</li> <li>Stone</li> </ul>	<ul> <li>To suit Arc Design</li> <li>To blend naturally to surrounding areas</li> <li>To following Fencing Design Guideline, PJC</li> </ul>	<ul> <li>Boundary fence to children's play areas</li> </ul>	
	<ul> <li>Water features</li> <li>Informal</li> <li>Natural</li> </ul>	<ul><li>Boulders</li><li>Stone</li></ul>	– Safe – Attractive	<ul> <li>At view point</li> <li>Seating areas</li> </ul>	
	<ul> <li>Planting         <ul> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Tree</li> <li>Palm</li> <li>Shrub</li> <li>Groundcover</li> <li>Turfing</li> </ul>	<ul> <li>Medium size tree &amp; palm</li> <li>Flowering shrub</li> <li>Non-poisonous species</li> <li>Low maintenance planting</li> </ul>	– All green areas	





			PLANNING REQU	JIREMENT : LANDSCA	ЪЕ
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
□ Buffer	<ul> <li>Planting         <ul> <li>Natural</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Palm</li> <li>Shrub</li> <li>Forest species</li> <li>Medium trees</li> </ul>	<ul> <li>Able to Screen</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Along Roadside</li> <li>Public utilities boundary</li> <li>Between TNB- Turbine area and Housing area</li> </ul>	
Public Utilities	<ul> <li>Planting         <ul> <li>Informal design</li> </ul> </li> </ul>	<ul> <li>Medium Tree</li> <li>Tall Shrub</li> </ul>	<ul> <li>Hormonisely with the surrounding environment</li> <li>Able to screen structure</li> <li>Attractive</li> </ul>	<ul> <li>All public utilities</li> <li>Boundary line</li> </ul>	
□ Roadside	<ul> <li>Paving, walls and steps</li> <li>Formal</li> <li>Contemporary</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interloc king paver etc.</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Max. Gradient for super elevation 2%</li> </ul>	– Roadside	
		<ul> <li>Wall</li> <li>Key stone</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas	
	<ul> <li>Site Furniture         <ul> <li>Contemporary</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Masonry</li> <li>Metal</li> </ul>	<ul> <li>Vandalism proof</li> <li>Safe</li> <li>Attractive</li> </ul>	– Junction	
	<ul> <li>Lighting         <ul> <li>Robust</li> <li>Minimal</li> <li>Reflect character of adjacent neighbourhood</li> </ul> </li> </ul>	– Timber – Metal	<ul> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Footpaths</li> <li>Cycle track</li> <li>Car park</li> </ul>	



PB1-10

			PLANNING REQ	UIREMENT : LANDSCA	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
□ Roadside	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	<ul> <li>Roadside reserve</li> </ul>	His productions man and a start frage protocol and a start frage transmission tra
	<ul> <li>Signage</li> <li>Contemporary</li> <li>Formal</li> <li>Simple</li> <li>Clear</li> </ul>	– Metal	<ul> <li>Clear</li> <li>To follow Signage and Advertisement Design Guideline, PJC</li> </ul>	– Junction	
	<ul> <li>Planting         <ul> <li>Formal</li> </ul> </li> </ul>	<ul> <li>Shade medium size tree</li> <li>Palm</li> <li>Shrub</li> </ul>	<ul> <li>Provide ample shade</li> <li>Hardy Plants</li> <li>Attractive</li> </ul>	– Roadside	

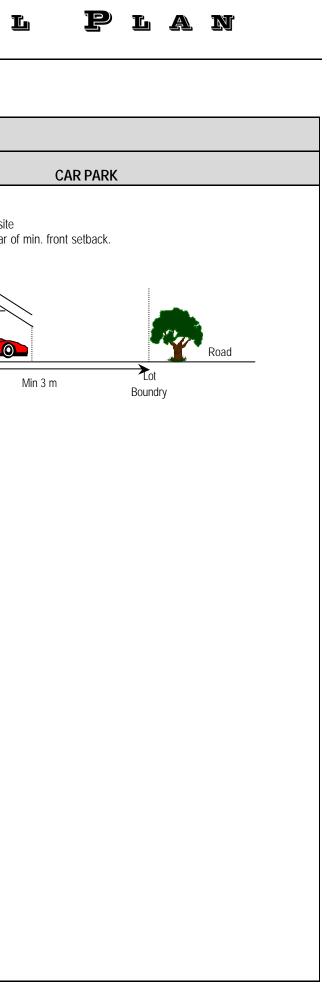


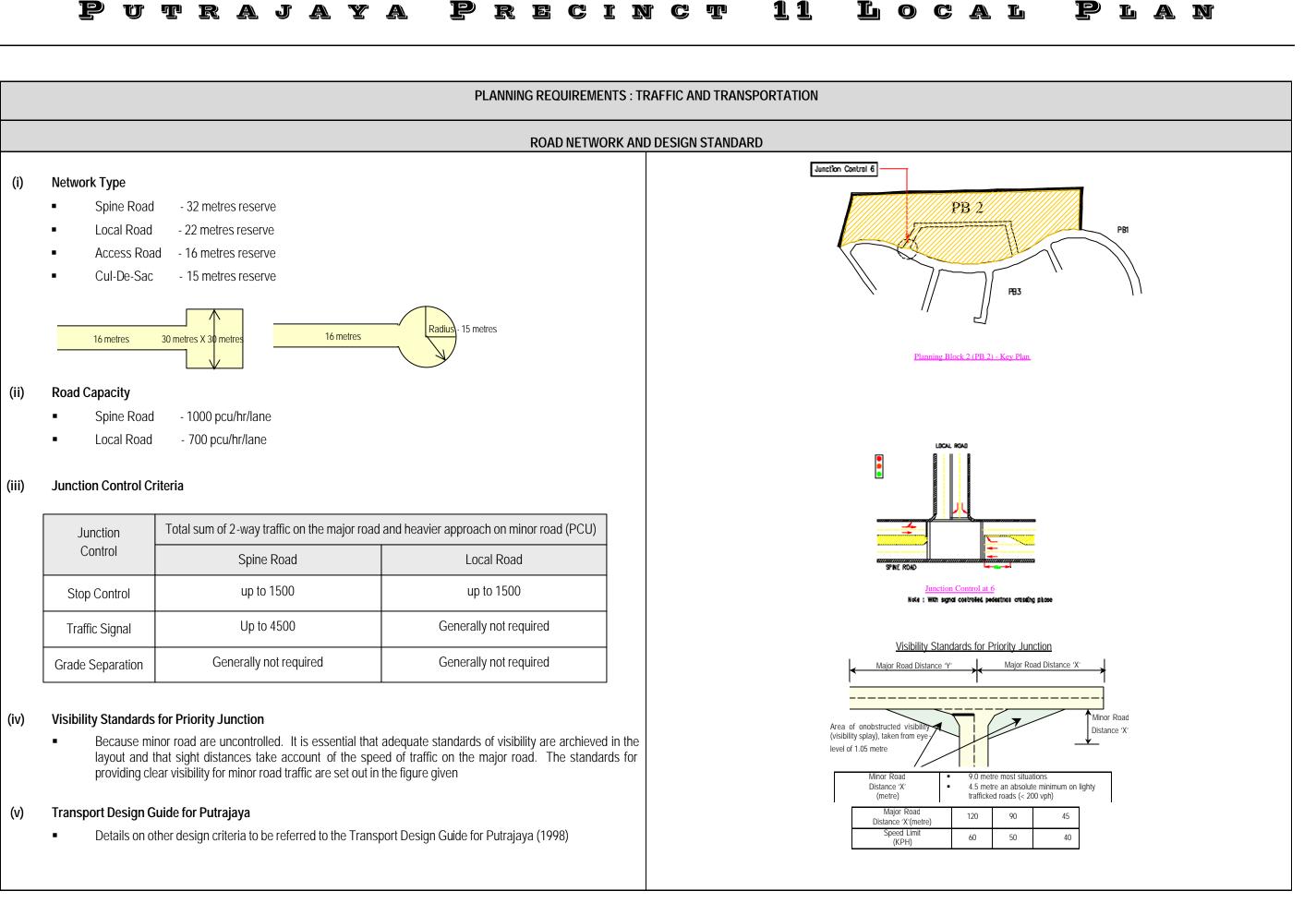
PB 1 - 11

			PLANNING REQUIREMENT : URBAN DESIGN		
	LAYOUT PLAN	BUILDING CHARACTER	HEIGHT, MASSING AND BUILDING SPACES	COLOUR TEXTURE	MISCELLANEOUS
(i)	<ul> <li>The layout plan must demonstrate that the following elements are addressed in the design:</li> <li>Development appropriate to topographical features</li> <li>Appropriate building orientation with respect to the sun</li> <li>Appropriate pedestrian and vehicular access systems</li> <li>Site infrastructure systems are designed in a manner which enhances site development</li> </ul>	<ul> <li>(i) Avoid monotonous building designs – provide a range of housing types to meet different lifestyle choices, diversity in the marketplace and opportunity for an interesting street frontage</li> <li>(ii) Ensure that buildings are designed to respect the topographical features of the site ,eg buildings should step with steeper sites – do not cut substantial benches into steep land</li> </ul>	<ul> <li>within these guidelines, and must comply with the UDG of Precinct 11 and 13</li> <li>(ii) Spaces on any ground level should not directly overlook dwellings on adjacent land</li> </ul>	<ul> <li>Building colours should harmonise with the predominant colours of the surrounding area</li> <li>Use of earth tones shall be encouraged</li> <li>Colours for specific building types will be subject to the approval of the Perbadanan Pastel colours are to be encouraged</li> </ul>	<ul> <li>be controlled by appropriate orientation f windows and use of splay windows</li> <li>(ii) Air conditioning equipment including piping-all equipment should be contained in compartments that are designed as an integral component of he building to ensure the equipment is hidden from view</li> <li>(iii) Drying yards – building design should incorporate appropriate design for drying</li> </ul>
(ii) (iii)	Illustrate the effective and efficient integration of the pedestrian, cycle and road systems Development is to be designed to work with site contours to avoid unnecessary cut and	<ul> <li>(iii) Building design should respect the amenity of adjoining and adjacent buildings and their residents</li> <li>(iv) Building design should interpret local image and character with new materials that are energy efficient</li> </ul>	daylight to open space and habitable rooms in adjacent development		<ul> <li>areas that allows for natural ventilation and light while ensuring they are hidden from public view</li> <li>(iv) Aerials and satellite dishes – the location of aerials and satellite dishes must not impact on the amenity of adjoining buildings</li> </ul>
(iv)	associated retaining structures Illustrate a high level of permeability between site uses within the Planning Block and with adjoining Planning Blocks	<ul> <li>(v) Building facades should be designed to accommodate a tropical environment</li> <li>(vi) Designers should look to the use of</li> </ul>	(vi) Roof overhangs should be designed to minimise the impact on sight lines from adjacent buildings		<ul> <li>(v) Service ducting shall not be exposed on the external surfaces of buildings</li> <li>(vi) Carports and garages should:</li> </ul>
(v) (vi)	Illustrate appropriate site building setbacks from major traffic routes or other noise generating or potentially dangerous infrastructure Illustrate that the site will be developed in a	<ul> <li>innovative building materials that are less maintenance intensive and more environmentally efficient</li> <li>(vii) While diversity is sought in building design, buildings should be designed with a common theme that provides a linkage to the style</li> </ul>	facade articulation and use of design elements that reduce building bulk and provide a pleasant street aspect Any blank wall should be avoided		<ul> <li>Be designed to integrate with the design of associated buildings</li> <li>Not diminish the attractiveness of the streetscape</li> <li>Not visually dominate views of the house from the street</li> <li>Cover the full length of a car</li> </ul>
(vii)	logical sequence The layout plan should illustrate that the form of development effectively contributes to the Planning Block's sense of place and	<ul> <li>and nature of the development area</li> <li>(viii) Building design should ensure good living environments for residents that do not adversely impact on neighbours</li> </ul>	be sympathetic with adjoining buildings, yet provide for local identity and character		<ul> <li>(vii) Dwellings with green frontage must address that frontage with habitable spaces and not service areas only</li> </ul>
	amenity with the context of Putrajaya	(ix) The building design should incorporate landscaping that contributes to a pleasant and safe environment and integrates well with the streetscape and adjoining open	- Alexandre		(viii) Dwelling design must provide sufficient outdoor open space that can act as an extension of the dwelling for relaxation, entertainment, recreation and children's play purposes
		space areas			<ul> <li>(ix) For the installations of grills, residents need to abide by the guidelines on the Uniform Design and Installation of Grills for Buildings in Putrajaya (Department of Urban Services, Putrajaya)</li> </ul>
					<ul> <li>Any changes to the façade and design of buildings must seek planning permission for Perbadanan Putrajaya</li> </ul>

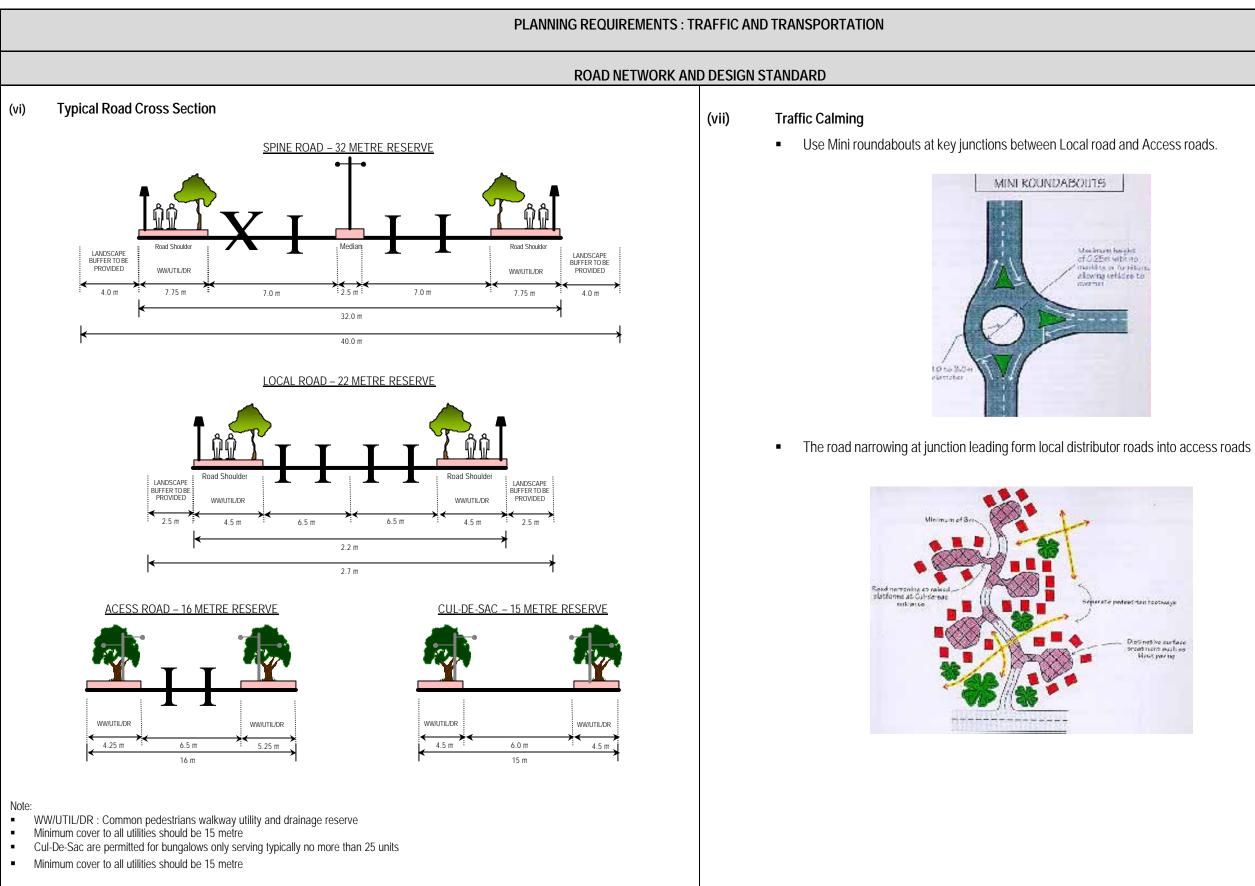
## PHYSICAL PLANNING REQUIREMENTS PLANNING BLOCK 2 (PB 2)

	MAIN LAND USES: Residential		PLANNING REQUIR	EMEN	T : BUILDING
	KEY PROVISION		BUILDING SETBACKS		
(i) (ii)	<ul> <li>Permitted Types</li> <li>Terrace</li> <li>Density</li> <li>Maximum 20 units per acre</li> </ul>	(i)	<ul> <li>Front / Rear Setback</li> <li>Total setback distance for both the front and rear setbacks must total 9 metres comprised as follows</li> <li>Street frontage – Minimum 3 metres</li> <li>Rear setback – Minimum 3 metres</li> </ul>	(i)	Car Park <ul> <li>Min. 2 cps on site</li> <li>CPS to be clear of</li> </ul>
(iii)	<ul> <li>Composition</li> <li>80% for government use</li> </ul>		Access Road 15 m		
(iv)	Minimum Lot Size ■ 130 m2		<u></u>		
(v)	Height <ul> <li>Maximum 3 levels</li> </ul>		<ul> <li>This variation in setback is only permissible within a single block of terraces and not for individual buildings.</li> </ul>		
(vi)	<ul> <li>Fencing</li> <li>As per the Fencing Design Guidelines Manual, Volume 2, Chapter 3, page 52</li> </ul>	(ii)	<ul><li>Side Setback</li><li>Side setback to 15 metres road, for roads with 3 metres green buffer</li></ul>		
(vii)	<ul> <li>Layout Plan</li> <li>Use the setback flexibility and building design variation to break up and vary the position of the houses.</li> </ul>		Access Road 15 m 15 m 3 m		
			<ul> <li>Side setback to 15 metres road, without 3 metres buffer</li> <li>Access Road 15 m</li> <li>15 m</li> <li>6 m</li> </ul>		
		(iii)	Setback between roof's Eaves		
			Property Line 2m Min. 3m Min. 3m		
		(iv)	<ul> <li>Minimum 4 metres</li> <li>20 m</li> <li>4 m</li> <li>Corner</li> </ul>		
		(iv)	<ul> <li>Visibility Standards for Priority Junctions</li> <li>Refer section on Transport</li> </ul>		

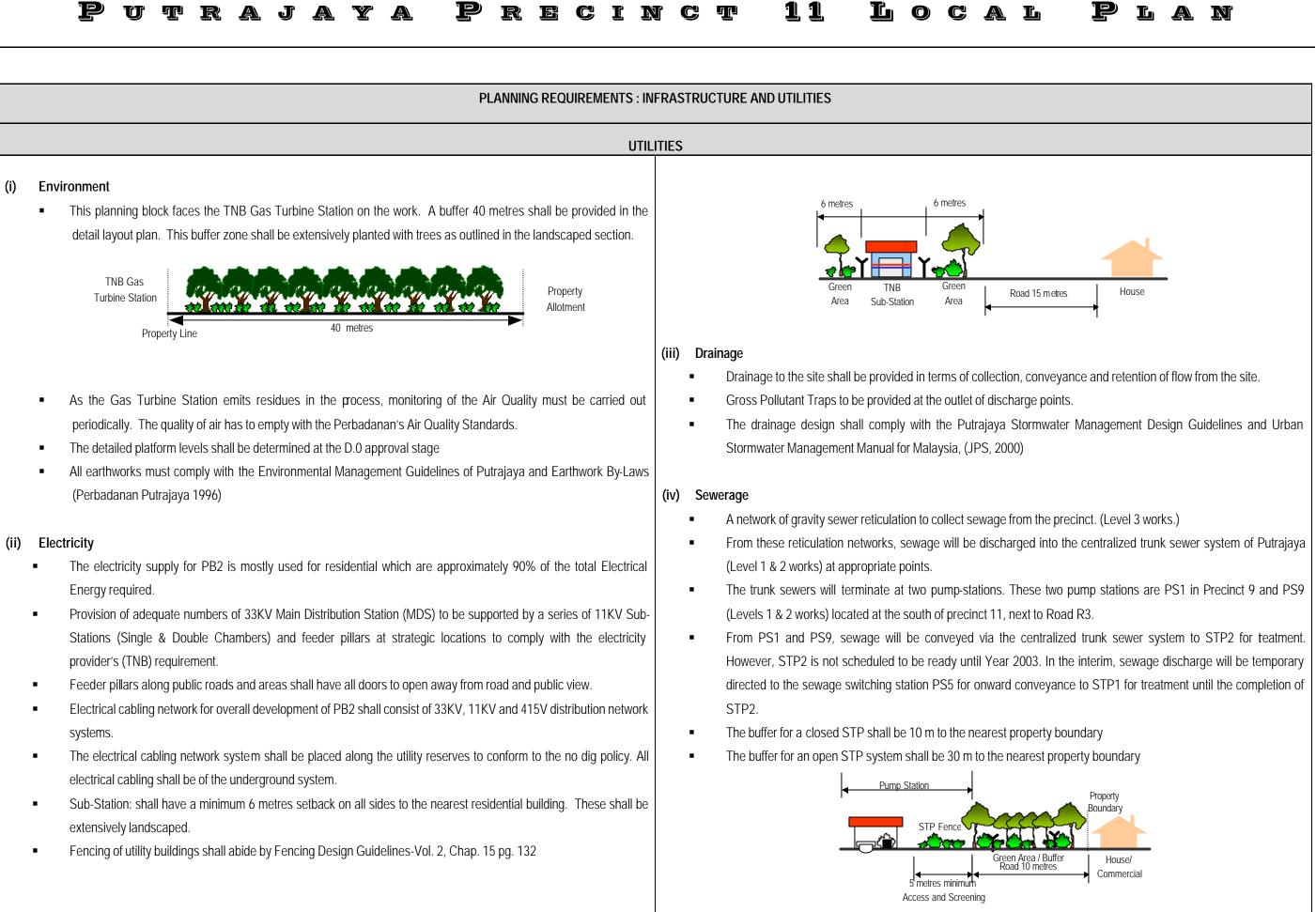




PB2-14



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#### PLANNING REQUIREMENTS : INFRASTRUCTURE AND UTILITIES

#### UTILITIES

#### (v) Gas The gas supply for PB2 is mostly used for residential which are approximately 80% of the total gas requirements.

- Gas supply for PB2 will be served from a District Gas Station located at Precinct 9 through a medium pressure gas pipeline.
- Provisions of 4 nos. of area Gas Station are allocated within the Precinct 11 development to cater for the projected gas loading requirements, with total area reserve of 1.13 acres.
- Low-pressure gas pipeline reticulation from the Area Gas Station is planned to serve the gas requirements for the residential, commercial and other amenities.
- Safety provision for construction within the vicinity.
- (For details of Gas Pipeline Reserve Design refer Appendix 1)

#### (vi) Waste Disposal

- Solid waste management in PB2 shall address reduction, reuse, recycling and recovery, the 4 R's of waste • management.
- Solid waste is proposed to be separated at source, by residents or employees, into three streams; dry recycles, wet waste and rubbish (all other wastes). The dry recyclable is to be further separated at source into containers and fiber materials.
- The sensitivity of the site in terms of waste management relates to the operational requirements of Precinct 11, which require that no burial of material is undertaken during the construction phase.
- In addition to control odour nuisance to any sensitive receptors biodegradable waste cannot be left at the site for extended periods.
- The waste management shall comply with Urban Design Guidelines and Environmental Guidelines for Putrajaya.
- For low rise residential, refuse chamber is to be placed in front of the house, either left or right of the driveway and near to main road for the ease of mechanical collection. The estimated generation of solid waste is 5kg/unit/day.
- The estimated generation of solid waste for recreation park/public transport stop station are 0.2 kg/visitor, . 300L/1000m<sup>2</sup>(gross floor area) for shopping complex and 500L/1000m<sup>2</sup>(gross floor area) for restaurant.
- Access road must be constructed for the ease of mechanical collection and public use. Obstructions to any collection vehicle's access must be disallowed at all time.



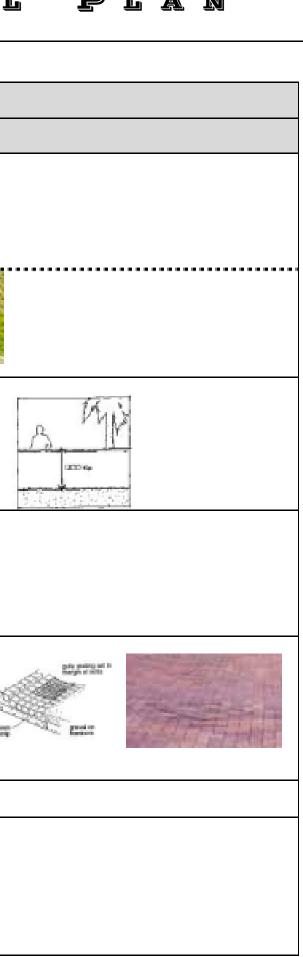
### (vii) Water Supply

- Water supply to PB2 shall be consistent with the provision of water supply master plan for Putrajaya.
- in compliance with Jabatan Bekalan Air (JBA) requirement, and Design Criteria and Standards for Water Supply System, JKR (1989).

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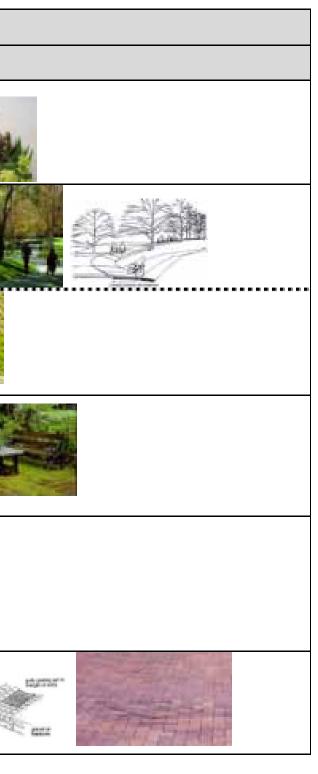
Storage reservoir and pumping station together with the rising and falling mains shall be planned to serve this area

		PLANNING REQUIREMENT : LANDSCAPE						
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION				
Residential (Landed)	<ul> <li>Paving, walls and steps</li> <li>Informal</li> <li>Formal</li> <li>Contemporary</li> </ul>	<ul> <li>Paving / Step         <ul> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul> </li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Durable</li> </ul>	<ul> <li>Building compound</li> </ul>				
		<ul> <li>Walls         <ul> <li>Key stone</li> <li>Concrete</li> <li>Fencing brick etc.</li> </ul> </li> </ul>	<ul> <li>Harmonize with surrounding</li> </ul>	<ul> <li>Building compound</li> </ul>				
	<ul> <li>Fence, Gate and Barrier</li> <li>Contemporary</li> <li>Formal</li> <li>Traditional</li> </ul>	– Hardwood – Metal – Masonry	<ul> <li>To follow Fencing Design Guideline, Putrajaya</li> </ul>	– Boundary line	The Hear France			
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Informal</li> <li>Formal</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul><li>Durable</li><li>Attractive</li><li>Safe</li></ul>	<ul> <li>Building compound</li> </ul>				
	<ul> <li>Drainage</li> <li>Swales</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Concealed drains</li> </ul>	<ul> <li>Building lot</li> </ul>	Martin Contraction of the second seco			
	<ul> <li>Irrigation Strategy</li> </ul>	Tap from storage tank or JBA m	ain or tap from JBA main					
	<ul> <li>Planting</li> <li>Formal</li> <li>Informal</li> </ul>	– Tree – Palm – Shrub – Groundcover	<ul> <li>Non-poisonous species</li> <li>Strong branch</li> <li>Medium size trees</li> </ul>	<ul> <li>Building compound</li> </ul>				

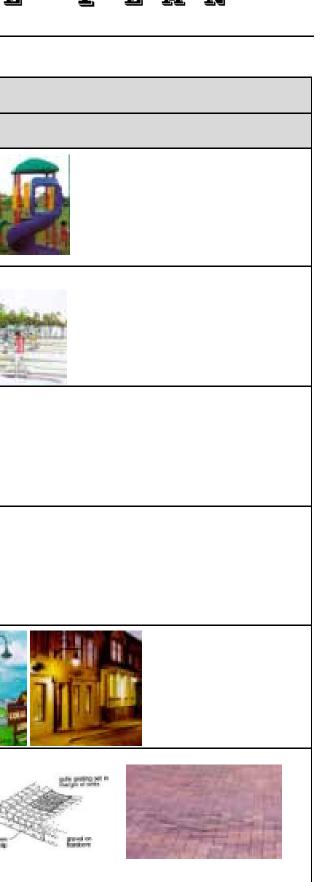


	PLANNING REQUIREMENT : LANDSCAPE							
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION				
Public Utilities	<ul> <li>Planting         <ul> <li>Informal design</li> </ul> </li> </ul>	<ul><li>Medium Tree</li><li>Tall Shrub</li></ul>	<ul> <li>Harmonize with the surrounding environment</li> <li>Able to screen structure</li> <li>Attractive</li> </ul>	<ul> <li>All public utilities</li> <li>Boundary line</li> </ul>				
Open space	<ul> <li>Paving, walls and steps</li> <li>Informal and contemporary</li> <li>Informal and natural</li> <li>Robust</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Grasscreate etc</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Durable</li> <li>Accessible for disable</li> </ul>	– Open space – Plaza				
		<ul> <li>Wall</li> <li>Key stone</li> <li>Facing brick</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul>	<ul> <li>Visually attractive</li> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas				
	<ul> <li>Site Furniture         <ul> <li>Robust</li> <li>Contemporary</li> <li>Decorative</li> </ul> </li> </ul>	<ul> <li>Hardwood timber</li> <li>Concrete</li> <li>Metal</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Plaza</li> <li>Along walkway</li> </ul>				
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Robust</li> <li>Decorative</li> </ul> </li> </ul>	<ul> <li>Hardwood timber</li> <li>Metal</li> <li>Fiberglass</li> </ul>	<ul> <li>Max. height compound lighting 4m</li> <li>Anti-corrosion finishes</li> <li>Durable</li> </ul>	– Plaza – Open space – Along walkway				
	<ul> <li>Drainage</li> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	– Open space – plaza	are and a construction of the construction of			
	Irrigation Strategy	Pipe reticulation from pond and	supported by trucking or tap from	JBA main.				
	<ul> <li>Structures and Shelters</li> <li>Contemporary</li> <li>Simple</li> <li>Informal</li> </ul>	<ul> <li>Timber</li> <li>Concrete</li> <li>Metal</li> </ul>	<ul> <li>Sustainable design</li> <li>Proportion to human scale</li> <li>Durable</li> </ul>	– Open space – Plaza				





			PLANNING REC	DUIREMENT : LANDSCA	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Open space	<ul> <li>Play feature</li> <li>Robust</li> <li>Colorful</li> <li>Safe</li> </ul>	<ul> <li>Timber</li> <li>Rubber matting</li> <li>Metal etc.</li> </ul>	<ul> <li>Conform to SIRIM standard</li> <li>Safe</li> <li>Attractive</li> </ul>	– Open space – Plaza	
	<ul> <li>Sport feature</li> <li>Informal</li> </ul>	<ul> <li>Timber</li> <li>Rubber matting</li> <li>Concrete</li> <li>Grass</li> </ul>	– Durable – Safe	– Open space	
	<ul> <li>Signage</li> <li>Contemporary</li> <li>Formal</li> </ul>	– Masonry – Metal	<ul> <li>As per Signage Design Guideline, Putrajaya</li> </ul>	<ul> <li>Entrance</li> <li>Junction</li> <li>Pedestrian</li> <li>Sport areas</li> </ul>	
	<ul> <li>Water feature</li> <li>Contemporary</li> <li>Formal</li> <li>Informal</li> </ul>	<ul> <li>Rock, Natural</li> <li>Tile finish</li> <li>Metal sculpture</li> <li>Concrete sculpture</li> </ul>	– Safe – Attractive	<ul> <li>Entrance</li> <li>Open space</li> <li>Plaza</li> </ul>	
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Robust</li> <li>Decorative</li> </ul> </li> </ul>	<ul> <li>Hardwood timber</li> <li>Metal</li> <li>Fiberglass</li> </ul>	<ul> <li>Max. height compound lighting 4m</li> <li>Anti-corrosion finishes</li> <li>Durable</li> </ul>	– Plaza – Open space – Along walkway	
	<ul> <li>Drainage         <ul> <li>Swales/Natural</li> <li>Concealed drai</li> </ul> </li> </ul>			– Open space – plaza	The second secon

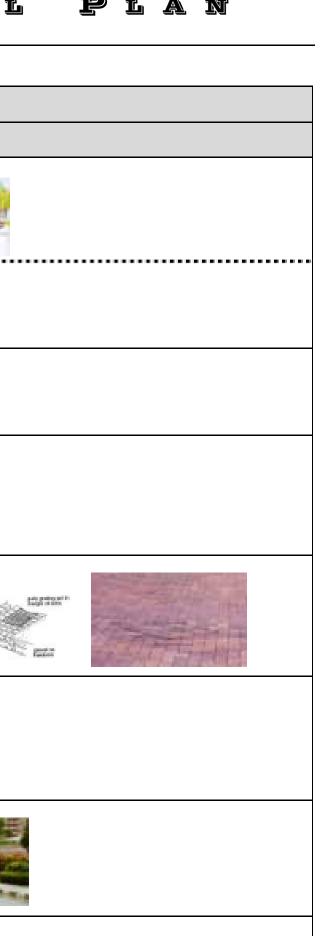


		LANNING REQUIREMENT : LANDSCAPE						
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION				
Open space	<ul> <li>Structures and Shelters</li> <li>Contemporary</li> <li>Simple</li> <li>Informal</li> </ul>	<ul><li>Timber</li><li>Concrete</li><li>Metal</li></ul>	<ul> <li>Sustainable design</li> <li>Proportion to surrounding scale</li> <li>Durable</li> </ul>	– Open space – Plaza				
	<ul> <li>Play feature</li> <li>Robust</li> <li>Colorful</li> <li>Safe</li> </ul>	<ul> <li>Timber</li> <li>Rubber matting</li> <li>Metal</li> </ul>	<ul> <li>Conform to SIRIM standard</li> <li>Safe</li> <li>Attractive</li> </ul>	– Open space – Plaza				
	<ul> <li>Sport feature         <ul> <li>Informal</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Timber</li> <li>Rubber matting</li> <li>Concrete</li> <li>Grass</li> </ul>	– Durable – Safe	– Open space				
	<ul> <li>Signage         <ul> <li>Contemporary</li> <li>Formal</li> </ul> </li> </ul>	– Masonry – Metal	<ul> <li>As per Signage Design Guideline, Putrajaya</li> </ul>	<ul> <li>Entrance</li> <li>Junction</li> <li>Pedestrian</li> <li>Sport areas</li> </ul>				
	<ul> <li>Water feature         <ul> <li>Naturalistic</li> <li>Contemporary</li> </ul> </li> </ul>	<ul> <li>Rock, Natural</li> <li>Tile finish</li> <li>Metal sculpture</li> <li>Concrete sculpture</li> </ul>	<ul><li>Safe</li><li>Attractive</li></ul>	<ul> <li>Entrance</li> <li>Open space</li> <li>Plaza</li> </ul>				
□ Buffer	<ul> <li>Planting         <ul> <li>Natural</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Palm</li> <li>Shrub</li> <li>Forest species</li> <li>Medium trees</li> </ul>	<ul> <li>Able to Screen</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Along Roadside</li> <li>Public utilities boundary</li> <li>Between TNB- Turbine area and Housing area</li> </ul>				





	PLANNING REQUIREMENT : LANDSCAPE							
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION				
□ Roadside	<ul> <li>Paving, walls and steps</li> <li>Formal</li> <li>Contemporary</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking paver etc.</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Max. Gradient for super elevation 2%</li> </ul>	– Roadside				
		<ul> <li>Wall</li> <li>Key stone</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas				
	<ul> <li>Site Furniture</li> <li>Contemporary</li> </ul>	– Hardwood – Masonry – Metal	<ul> <li>Vandalism proof</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Junction</li> <li>Along pedestrian walkway</li> </ul>				
	<ul> <li>Lighting         <ul> <li>Robust</li> <li>Minimal</li> <li>Reflect character of adjacent neighbourhood</li> </ul> </li> </ul>	– Timber – Metal	<ul> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Footpaths</li> <li>Cycle track</li> <li>Car park</li> </ul>				
	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	– Open space – plaza				
	<ul> <li>Signage</li> <li>Contemporary</li> <li>Formal</li> <li>Simple</li> <li>Clear</li> </ul>	– Masonry – Metal – Hardwood	<ul> <li>Clear</li> <li>Vandalism proof</li> </ul>	– Junction				
	<ul> <li>Planting</li> <li>□ Formal</li> </ul>	<ul> <li>Palm</li> <li>Shrub</li> <li>Forest species</li> </ul>	<ul> <li>Provide ample shade</li> <li>Hardy Plants</li> <li>Attractive</li> </ul>	– Roadside				
	Irrigation Strategy	– Trucking	1	1				



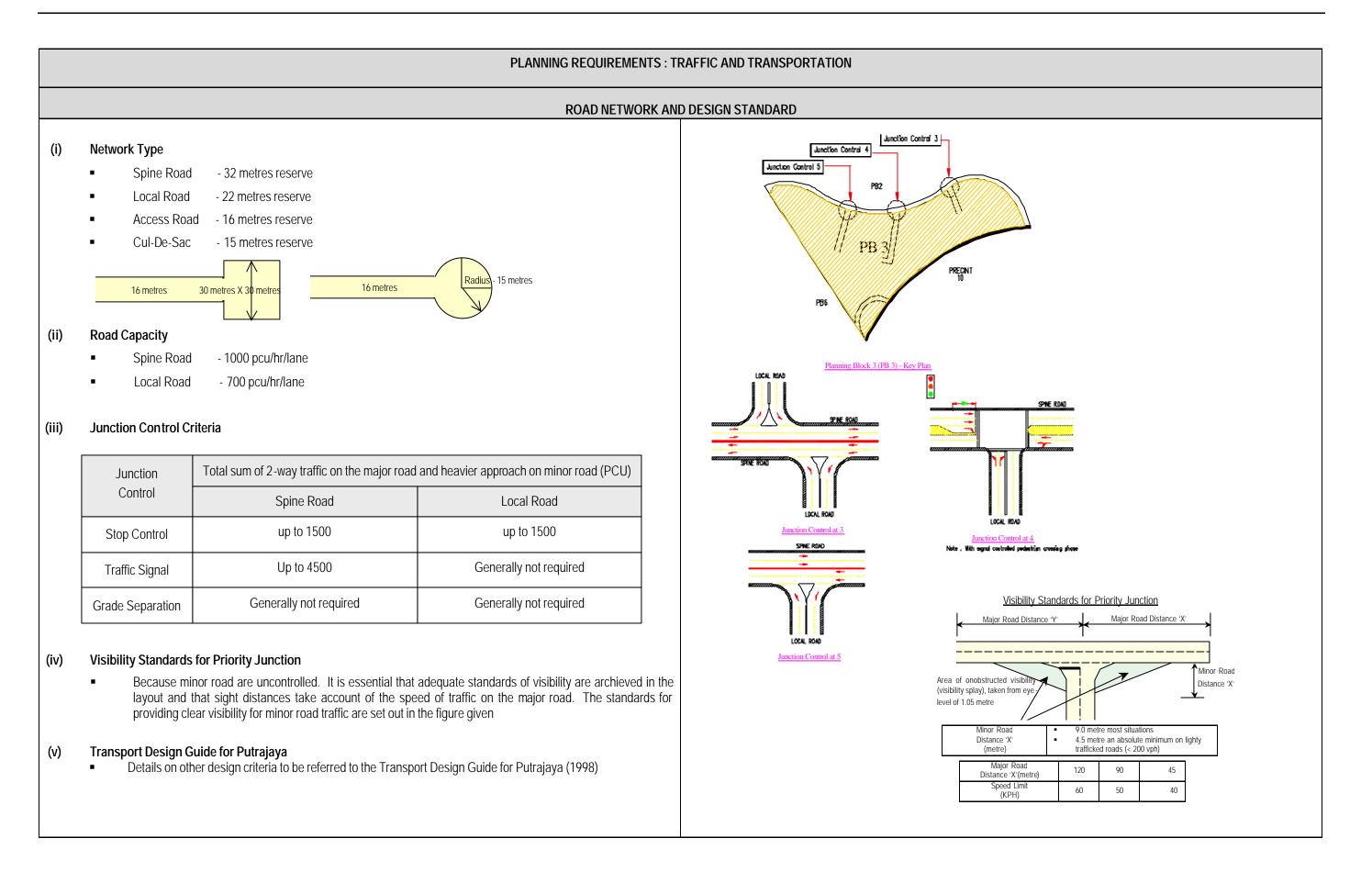
		PLANNING REQUIREMENT : URBAN DI	ESIGN	
LAYOUT PLAN	BUILDING CHARACTER	HEIGHT, MASSING AND BUILDING SPACES	COLOUR TEXTURE	MISCELLANEOUS
<ul> <li>(i) The layout plan must demonstate that the following elements are addressed in the design: <ul> <li>Development appropriate to topographical features</li> <li>Appropriate building orientation with respect to the sun</li> <li>Appropriate pedestrian and vehicular access systems</li> <li>Site infrastructure systems are designed in a manner which enhances site development</li> </ul> </li> <li>(ii) Illustrate the effective and efficient integration of the pedestrian, cycle and road systems</li> <li>Site infrastructure systems are designed in a manner which enhances site development</li> <li>(ii) Illustrate the effective and efficient integration of the pedestrian, cycle and road systems</li> </ul> (iii) Development is to be designed to work with site contours to avoid unnecessary cut and associated retaining structures (iv) Illustrate a high level of permeability between site uses within the Planning Block and with adjoining Planning Blocks (v) Illustrate that the site will be developed in a logical sequence (vi) The layout plan should illustrate that the form of development effectively contributes to the Planning Block's sense of place and amenity with the context of Putrajaya	<ul> <li>(i) Avoid monotonous building designs – provide a range of housing types to meet different lifestyle choices, diversity in the marketplace and opportunity for an interesting street frontage</li> <li>(ii) Ensure that buildings are designed to respect the topographical features of the site ,eg buildings should step with steeper sites – do not cut substantial benches into steep land</li> <li>(ii) Building design should respect the amenity of adjoining and adjacent buildings and their residents</li> <li>(iv) Building design should interpret local image and character with new materials that are energy efficient</li> <li>(v) Building facades should be designed to accommodate a tropical environment</li> <li>(vi) Designers should look to the use of innovative building materials that are less maintenance intensive and more environmentally efficient</li> <li>(vii) While diversity is sought in building design, buildings should be designed with a common theme that provides a linkage to the style and nature of the development area</li> <li>(viii) Building design should ensure good living environments for residents that do not adversely impact on neighbours</li> <li>(ix) The building design should incorporate landscaping that contributes to a pleasant and safe environment and integrates well with the streetscape and adjoining open space areas</li> </ul>	<ul> <li>directly overlook dwellings on adjacent land</li> <li>(iii) Ground loor levels must be responsive to pedestrian footpaths and continuity and flow between buildings</li> <li>(iv) Building design does not significantly reduce daylight to open space and habitable rooms in adjacent development</li> <li>(v) Roof pitch and overlay should be designed to meet local environmental requirements</li> <li>(vi) Roof overhangs should be designed to minimise the impact on sight lines from adjacent buildings</li> </ul>	<ul> <li>Building colours should harmonise with the predominant colours of the surrounding area</li> <li>Use of earth tones shall be encouraged</li> <li>Colours for specific building types will be subject to the approval of the Perbadanan. Pastel colours are to be encouraged.</li> </ul>	<ul> <li>(i) Privacy and visual controls – overlooking to be controlled by appropriate orientation f windows and use of splay windows</li> <li>(ii) Air conditioning equipment including pipingall equipment should be contained in compartments that are designed as an integral component of the building to ensure the equipment is hidden from view</li> <li>(ii) Drying yards – building design should incorporate appropriate design for drying areas that allows for natural ventilation and light while ensuring they are hidden from public view</li> <li>(iv) Aerials and satellite dishes – the location of aerials and satellite dishes must not impact on the amenity of adjoining buildings</li> <li>(v) Service ducting shall not be exposed on the external surfaces of buildings</li> <li>(vi) Carports and garages should: <ul> <li>Be designed to integrate with the design of associated buildings</li> <li>Not diminish the attractiveness of the streetscape</li> <li>Not visually dominate views of the house from the street</li> <li>Cover the full length of a car</li> </ul> </li> <li>(vii) Dwelling design must provide sufficient outdoor open space that can act as an extension of the dwelling for relaxation, entertainment, recreation and children's play purposes.</li> <li>(ix) For the installations of grills, residents need to abide by the guidelines on the Uniform Design and Installation of Grills for Buildings in Putrajaya (Department of Urban Services, Putrajaya)</li> </ul>

## PHYSICAL PLANNING REQUIREMENTS PLANNING BLOCK 3 (PB 3)

MAIN LAND USES:	SEMI-DETACHED HOUSES	TERRACE HOUSES	APARTMENTS	TADIKA	SURAU	STESYEN MINYAK	STESYEN PAM KUMBAHAN UTAMA
(i) Density	• 5 – 7 units / ac	• 8 units / ac	<ul> <li>20 units / ac</li> </ul>	<ul> <li>One in PB3</li> <li>Maximum Plinth Area : 30%</li> </ul>	<ul> <li>One in PB3</li> <li>Maximum Plinth Area : 50%</li> </ul>	<ul> <li>One in PB3</li> <li>Plot ratio – 0.5 (max)</li> <li>Plinth area – 40% max</li> </ul>	One in PB3
(ii) Composition			<ul> <li>100% medium cost</li> </ul>				
(iii) Minimum Lot size	• 300 m2	• 130 m2	<ul> <li>N/A</li> </ul>	<ul> <li>Minimum 0.20 ha</li> </ul>	<ul> <li>Minimum 0.30 ha</li> </ul>	<ul> <li>Minimum 0.25 ha</li> </ul>	<ul> <li>0.50 ha</li> </ul>
(iv) Height	<ul> <li>2 levels on flat or gently sloping land</li> <li>3 levels on steep land</li> </ul>	2 levels on flat or gently sloping land		<ul> <li>2 storey (max)</li> </ul>	<ul> <li>Maximum 2 levels</li> </ul>	<ul> <li>1 storey (6m max)</li> </ul>	■ N/A
(v) Setbacks:							
Front/Rear setbacks	<ul> <li>Total setback distance for both the front and rear setbacks must total 9 metres</li> <li>Street frontage – Minimum 3m</li> <li>Rear setback – Minimum 3m</li> </ul>	<ul> <li>Total setback distance for both the front and rear setbacks must total 9 metres</li> <li>Street frontage – min. 3.0 metres</li> <li>Rear setback – min. 3.0 metres</li> <li>Variation of setback is permissable within a single block of terraces and not for individual buildings</li> </ul>		<ul> <li>Street frontage – Minimum 6 metres</li> <li>Rear – Minimum 6 metres</li> <li> <ul> <li></li></ul></li></ul>	<ul> <li>Street frontage – Minimum 6 metres</li> <li>Rear – Minimum 6 metres</li> </ul>	<ul> <li>Street frontage – Minimum 6 metres</li> <li>Rear – Minimum 6 metres</li> </ul>	<ul> <li>Street frontage – Minimum 6 metres</li> <li>Rear – Minimum 6 metres</li> </ul>
<ul> <li>Non-Party/side Boundary</li> </ul>	Minimum 3 me tres	<ul> <li>Where applicable – Minimum 3 metres to side road with buffer</li> <li>Minimum 6 metres to side road without buffer</li> <li>Access Road 15 m</li> <li>3 m</li> <li>3 m</li> </ul>	• N/A	Minimum 6 metres	Minimum 6 metres	<ul> <li>6m measured from the road reserve to the nearest permanent structure in the petrol station</li> <li>A minimum landscape buffer of 5m shall be provided for petrol station located next to residential building</li> </ul>	Minimum 6 metres
<ul> <li>Street Boundary</li> <li>Setback Between Roofs'</li> </ul>	Minimum 3 metres	<ul><li>Minimum 3 metres</li><li>Minimum 2 metres</li></ul>	<ul> <li>Minimum 6 metres</li> </ul>	<ul> <li>Setback from access road</li> <li>- 12m (min)</li> </ul>	<ul> <li>Setback from access road – min. 12m</li> </ul>	<ul> <li>N/A</li> </ul>	<ul> <li>Minimum 6 metres</li> </ul>
Eaves		Property Line 2m 2m Min. 3m Min. 3m		<ul> <li>Minimum Tadika size (if within building for strata residential development) Min. classroom size –</li> </ul>			
Setback Between Building			<ul> <li>20 metres setback between buildings or average of building heights</li> <li>Building A 20 m Building Building Building</li> <li>Where: • Z = ¥x 2</li></ul>				
			<ul> <li>Z = <u>X + Y</u> Z</li> <li>Whichever x</li> <li>Building A</li> <li>Z</li> <li>Building Y</li> <li>Building A</li> </ul>	r			

## Putrajaya Precinct 11 Local Plan

MAIN LAND USES:	SEMI-DETACHED HOUSES	TERRACE HOUSES	APARTMENTS	TADIKA	SURAU	STESYEN MINYAK	STESYEN PAM Kumbahan utama
Car Park	<ul> <li>Min. 2 cps on site</li> <li>CPS to be clear of min. front setback.</li> </ul>	<ul> <li>Min. 2 cps on site</li> <li>CPS to be clear of min. front setback.</li> </ul>	<ul> <li>Minimum 1 cps per unit + 10% for visitors</li> <li>CPS to be clear of minimum front setback</li> <li>Car parking for disabled at 1% of total number of cps.</li> <li>Covered motorcycle bays at 1:1</li> </ul>	<ul> <li>1 cps per 500 sq ft floorspace</li> </ul>	<ul> <li>1 cps for 250 sq ft floorspace</li> <li>Car parking for disabled at 1% of total number of cps.</li> </ul>	<ul> <li>N/A</li> </ul>	<ul> <li>N/A</li> </ul>
(vi) Fencing As per the Fencing Design Guidelines Manual, Volume 1 and Volume 2, chapter 1, 2 and 3		<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 2 and 6</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 8</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 11</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 13</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 20</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 15</li> </ul>
(vii) Layout Plan	<ul> <li>Use the setback flexibility and building design variation to break up and vary the position of the houses.</li> </ul>	<ul> <li>Use the setback flexibility and building design variation to break up and vary the position of the houses</li> </ul>	<ul> <li>Provide a fenced children's playground – Minimum 500m2</li> <li>Suitable size surau + ruang jenazah. Calculation for surau size: 80% X No Of Units X 0.4m2</li> <li>Car park to be well landscaped</li> <li>Min 2 m landscape buffer to all boundaries.</li> <li>Service areas to be aesthetically screened.</li> <li>Location of solid waste collection to be clearly shown</li> <li>Provision of community hall</li> <li>Image: Service areas to be clearly shown</li> <li>Other community provision:         <ul> <li>Kindergarten</li> <li>Day Care Centre</li> <li>Laundry</li> <li>Car Wash Area</li> <li>Courts Sepaktakraw or Volleyball</li> </ul> </li> </ul>	<ul> <li>Layout plans to show the design concept including:         <ul> <li>Total gross net areas of indoor play, outdoor play, roofed shade and other outdoor shade areas.</li> <li>Service areas to be aesthetically screened.</li> <li>Site car parking to be clearly indicated.</li> <li>Site car parking to be landscaped.</li> <li>Min 2m landscaped buffer between car parking spaces and any boundary.</li> <li>Initiate stacked outdoor play areas, carparking.</li> <li>Indicate set-down/pick-up areas to be visible from road and must be covered.</li> <li>Indicate pedestrian access to/from the site and connection to surrounding pedestrian pathways.</li> <li>Where boundaries are not residential dwellings, carefully locate potentially noisy activities to minimise impacts.</li> <li>Show appropriate screening that protects the amenity of abutting residential uses.</li> </ul> </li> </ul>	<ul> <li>Layout plan to show the design concept including:         <ul> <li>Location of all key facilities.</li> <li>Location of car parking spaces</li> <li>Location of screening devices to minimise impact of noise (for example – air conditioning equipment).</li> <li>Effective screening to abutting residential uses.</li> <li>Calculation for minimum surau size: 80% X No Of Units X 0.4 m2</li> </ul> </li> </ul>	<ul> <li>Layout plan to show the design concept including:         <ul> <li>Location of all key facilities.</li> <li>Location of car parking spaces</li> <li>Location of screening devices to minimise impact of noise producing machinery.</li> <li>Effective screening to abutting residential uses.</li> </ul> </li> </ul>	<ul> <li>Layout plan to show the design concept including:         <ul> <li>Location of all key facilities.</li> <li>Location of car parking spaces</li> <li>Location of screening devices to minimise impact of noise producing machinery.</li> <li>Effective screening to abutting residential uses.</li> </ul> </li> </ul>

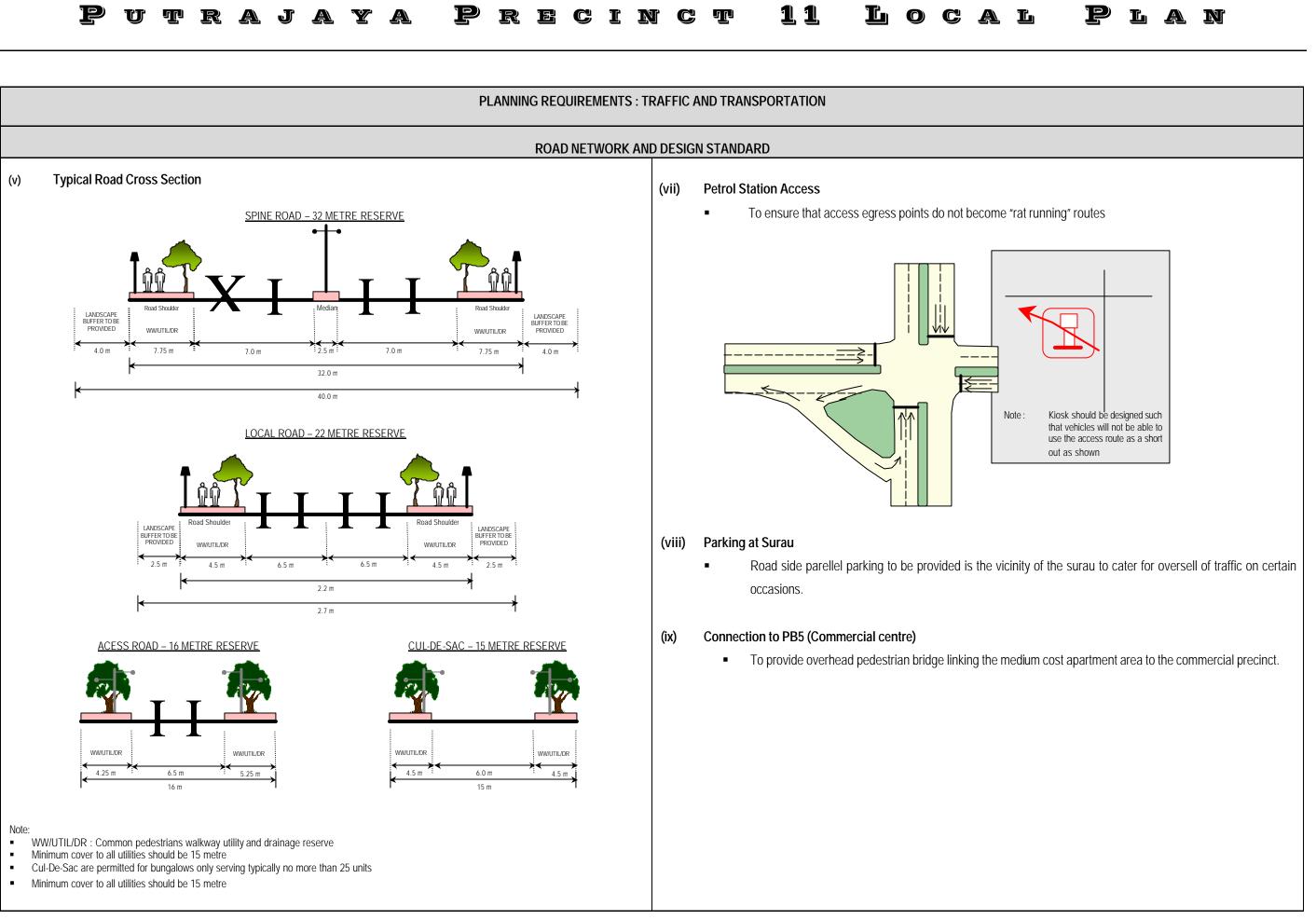


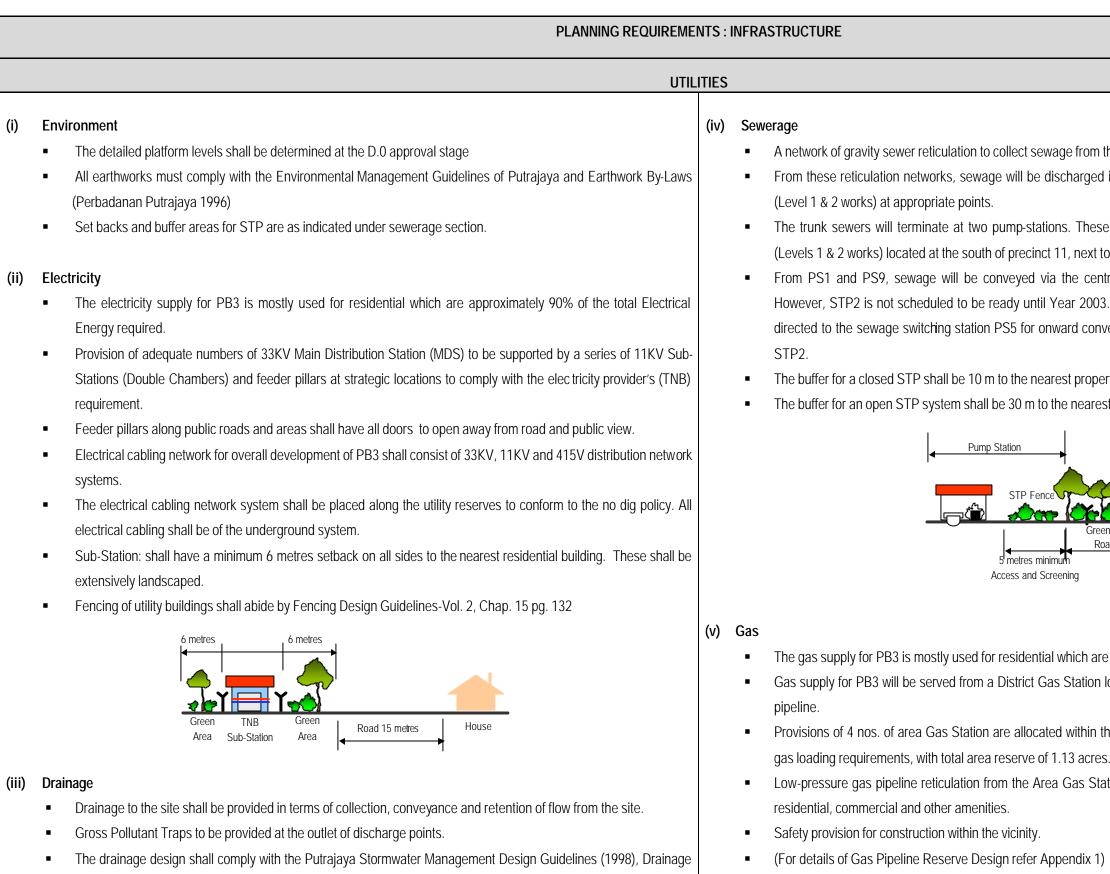












Masterplan Study Report for Putrajaya (1996) and Urban Stormwater Management Manual for Malaysia (JPS, 2000)

l Plan
rom the precinct. (Level 3 works.) rged into the centralized trunk sewer system of Putrajaya
hese two pump stations are PS1 in Precinct 9 and PS9 ext to Road R3.
centralized trunk sewer system to STP2 for treatment. 2003. In the interim, sewage discharge will be temporary conveyance to STP1 for treatment until the completion of
roperty boundary. earest property boundary.
Property Boundary Green Area / Buffer Road 10 metres House/ Commercial
h are approximately 80% of the total gas requirements.
tion located at Precinct 9 through a medium pressure gas
hin the Precinct 11 development to cater for the projected acres.
s Station is planned to serve the gas requirements for the
lix 1)

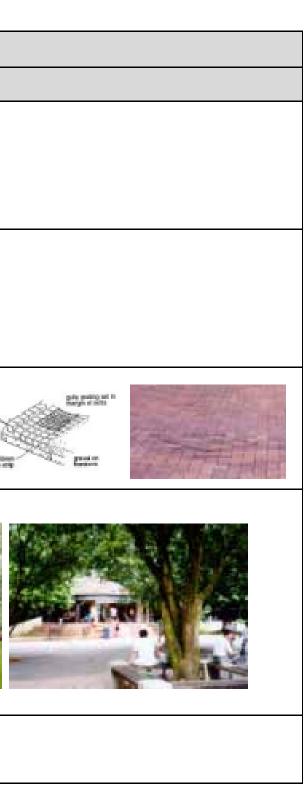
## PLANNING REQUIREMENTS : INFRASTRUCTURE UTILITIES (vi) Waste Disposal (vii) Water Supply Solid waste management in PB3 shall address reduction, reuse, recycling and recovery, the 4 R's of waste Water supply to PB3 shall be consistent with the provision of water supply master plan for Putrajaya. Storage reservoir and pumping station together with the rising and falling mains shall be planned to serve this area management. Solid waste is proposed to be separated at source, by residents or employees, into three streams; dry recycles, wet in compliance with Jabatan Bekalan Air (JBA) requirement, and Design Criteria and Standards for Water Supply • waste and rubbish (all other wastes). The dry recyclable is to be further separated at source into containers and System, JKR (1989) fiber materials. The sensitivity of the site in terms of waste management relates to the operational requirements of Precinct 11, which require that no burial of material is undertaken during the construction phase. In addition to control odour nuisance to any sensitive receptors biodegradable waste cannot be left at the site for extended periods. The waste management shall comply with Urban Design Guidelines and Environmental Guidelines for Putrajaya. For low rise residential, refuse chamber is to be placed in front of the house, either left or right of the driveway and near to main road for the ease of mechanical collection. The estimated generation of solid waste is 5kg/unit/day. For high rise residential (apartment, condominium and government's quarters), individual refuse chamber center • must be placed at each block. These refuse chambers must be built on ground floor / basement. Building management team would collect the refuses from refuse chamber and place it to the refuse chamber center. The estimated generation of solid waste is 5 kg/unit/day. For non-residential building, refuse chamber center can be built at the ground floor / basement or apart from the main building. The estimated generation of solid waste for recreation park/public transport stop station are 0.2 kg/visitor, 300L/1000m<sup>2</sup>(gross floor area) for shopping complex and 500L/1000m<sup>2</sup>(gross floor area) for restaurant. Access road must be constructed for the ease of mechanical collection and public use. Obstructions to any collection vehicle's access must be disallowed at all time.

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Putrajaya Precinct 11 Local Plan

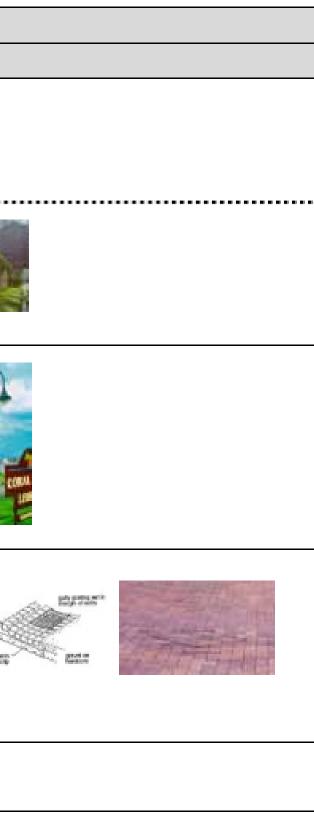
			PLANNING REQU	IREMENT : LANDSCAP	E
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
<ul> <li>Public Amenity (Kindergarten)</li> </ul>	<ul> <li>Play feature         <ul> <li>Integrated</li> <li>Bright colour</li> </ul> </li> </ul>	– Hardwood – Metal – Plastic	<ul> <li>Conform to SIRIM standard</li> </ul>	– Open Space	
	<ul> <li>Lighting         <ul> <li>Robust, minimal</li> <li>Reflect character of adjacent neighborhood</li> </ul> </li> </ul>	– Metal – Timber	<ul> <li>Anti-corrosion</li> <li>Durable</li> <li>Attractive</li> </ul>	<ul> <li>Footpath</li> <li>Open space</li> </ul>	
	<ul> <li>Drainage</li> <li>Swales</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Concealed drains</li> </ul>	<ul> <li>Building lot</li> </ul>	And a second sec
	<ul> <li>Planting         <ul> <li>Formal</li> <li>Informal</li> </ul> </li> </ul>	– Medium size – Tree – Palm – Shrub	<ul> <li>Non-poisonous species</li> <li>Safe</li> <li>Attractive</li> </ul>	– Open Space	
	<ul> <li>Irrigation Strategy</li> </ul>	Pipe reticulation from PHB and/	or trucking	1	1





	PLANNING REQUIREMENT : LANDSCAPE				
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Residential (Landed)	<ul> <li>Paving / Step, and Wall</li> <li>Contemporary</li> <li>Natural</li> </ul>	<ul> <li>Clay Brick</li> <li>Homogenous tile</li> <li>Concrete</li> <li>Interlocking paver etc</li> </ul>	<ul> <li>Anti-Slippery surface</li> <li>Max. gradient 8%</li> <li>Max. gradient 2% for super elevation</li> </ul>	<ul> <li>Building compound</li> </ul>	
		<ul> <li>Wall</li> <li>Key stone</li> <li>Concrete</li> <li>Granite Stone etc.</li> </ul>	<ul> <li>Key Stone</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul>	– Slope areas	
	Lighting     Decorative	– Metal	<ul> <li>Anti-Corrosion</li> <li>Durable</li> <li>Attractive</li> </ul>	- Building compound	
	<ul> <li>Drainage</li> <li>Swales</li> <li>Concealed drains</li> </ul>	<ul> <li>Concrete</li> <li>Stone etc.</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> <li>Easy to maintain</li> </ul>	– All area	Hard and a state of the state o
	Irrigation Strategy	Tap from storage tank or JBA m	ain or tap from JBA main		



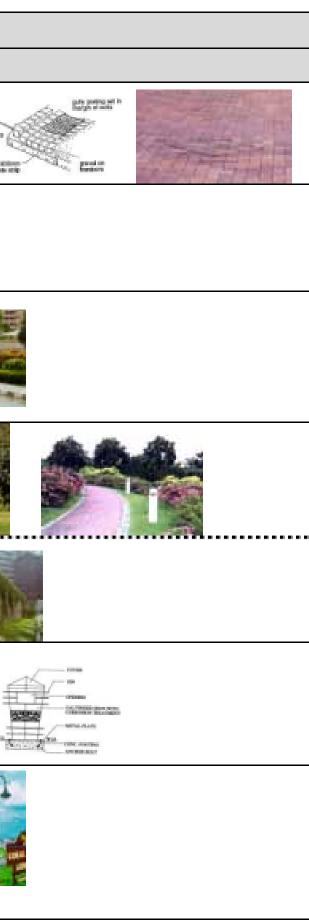


		PLANNING REQUIREMENT : LANDSCAPE			
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Residential (Landed)	<ul> <li>Fences, Railing and Barriers         <ul> <li>Contemporary</li> <li>Elegant</li> </ul> </li> </ul>	<ul> <li>Metal</li> <li>Timber</li> <li>Concrete</li> <li>Planting</li> </ul>	<ul> <li>To follow Fencing Design Guideline, PJC</li> </ul>	– Boundary Line	Ark 1 Part From
	<ul> <li>Water feature</li> <li>Contemporary</li> </ul>	<ul> <li>Metal</li> <li>Concrete</li> <li>Tiles</li> <li>Stone</li> </ul>	<ul> <li>Clean</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Building</li> <li>compound</li> <li>Entrance</li> </ul>	
	<ul> <li>Planting</li> <li>Formal</li> </ul>	<ul> <li>Palms</li> <li>Shrub</li> <li>Trees</li> <li>Ground cover</li> </ul>	<ul> <li>Non-poisonous species</li> <li>Hardy plants</li> <li>Attractive</li> </ul>	<ul> <li>Building compound</li> </ul>	
□ Roadside	<ul> <li>Paving, walls and steps</li> <li>Formal</li> <li>Contemporary</li> </ul>	<ul> <li>Paving / Step         <ul> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking paver etc.</li> </ul> </li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Max. Gradient for super elevation 2%</li> </ul>	– Roadside	
		<ul> <li>Wall</li> <li>Key stone</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas	
	<ul> <li>Site Furniture</li> <li>Contemporary</li> </ul>	<ul><li>Hardwood</li><li>Masonry</li><li>Metal</li></ul>	<ul> <li>Vandalism proof</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Junction</li> <li>Along pedestrian walkway</li> </ul>	
	<ul> <li>Lighting         <ul> <li>Robust</li> <li>Minimal</li> <li>Reflect character of adjacent neighborhood</li> </ul> </li> </ul>	– Timber – Metal	– Max. height 10m	<ul> <li>Footpaths</li> <li>Cycle track</li> <li>Car park</li> </ul>	

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	PLANNING REQUIREMENT : LANDSCAPE					PE
	LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
	Roadside	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	<ul> <li>Roadside reserve</li> </ul>	No o Like o Like o Like on Like of Lik
		<ul> <li>Signage</li> <li>Contemporary</li> <li>Formal</li> <li>Simple</li> <li>Clear</li> </ul>	– Metal	<ul> <li>To follow Signage and Advertisement, PJC</li> </ul>	– Junction	
		Planting     Formal	<ul> <li>Shade medium size</li> <li>tree</li> <li>Palm</li> <li>Shrub</li> </ul>	<ul> <li>Provide ample shade</li> <li>Hardly Plants</li> <li>Attractive</li> </ul>	– Roadside	
		Irrigation Strategy	– Trucking			
	Residential (condominium and apartment)	<ul> <li>Paving / Step, Wall</li> <li>Formal</li> <li>Informal</li> </ul>	<ul> <li>Paving / Step         <ul> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul> </li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max-gradient of 8%</li> <li>Durable</li> </ul>	– Open space – Walkway	
			<ul> <li>Wall</li> <li>Keystone</li> <li>Facing Brick</li> <li>Concrete etc.</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas	
		<ul> <li>Site Furniture         <ul> <li>Contemporary</li> <li>Elegant formal</li> <li>Specific design for neighborhood</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Resting areas</li> </ul>	
		<ul> <li>Lighting         <ul> <li>Contem porary</li> <li>Elegant formal</li> <li>Specific design for neighborhood</li> </ul> </li> </ul>	<ul> <li>Concrete</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Open space</li> <li>Entrance with bollard</li> <li>Roadside</li> </ul>	





Putrajaya Precinct 11 Local

		PLANNING REQUIREMENT : LANDSCAPE			
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Residential (condominium and apartment)	<ul> <li>Drainage</li> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Harmonious with surrounding environment</li> </ul>	<ul> <li>Where necessary</li> </ul>	And the second s
	<ul> <li>Structures and Shelter</li> <li>Informal</li> <li>Vernacular</li> </ul>	<ul> <li>Hardwood</li> <li>Concrete</li> <li>Masonry</li> <li>Metal</li> </ul>	<ul> <li>To blend harmoniously with surrounding structure</li> <li>Durable</li> <li>Safe</li> </ul>	– Open space	
	<ul> <li>Signage</li> <li>Contemporary</li> <li>Formal</li> <li>Informal</li> </ul>	<ul> <li>Metal</li> <li>Hardwood</li> <li>Concrete etc.</li> </ul>	<ul> <li>To following Signage and Advertisement Design Guideline, PJC</li> </ul>	<ul> <li>Entrance</li> <li>Open space</li> <li>Pedestrian walkway</li> </ul>	
	<ul> <li>Play feature         <ul> <li>Integrated</li> <li>Bright colour</li> </ul> </li> </ul>	<ul> <li>Metal</li> <li>Rubber matting</li> <li>Plastic</li> </ul>	<ul> <li>Conform to SIRIM standard</li> <li>Safe</li> <li>Attractive</li> <li>Durable</li> </ul>	– Open space	
	<ul> <li>Planting         <ul> <li>Informal</li> <li>Tropical</li> </ul> </li> </ul>	<ul> <li>Trees</li> <li>Palms</li> <li>Shrubs</li> <li>Ground covers</li> </ul>	<ul> <li>Non-poisonous species</li> <li>Hardy plants</li> <li>Low maintenance</li> </ul>	– All green areas	
Buffer	<ul> <li>Planting         <ul> <li>Natural</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Palm</li> <li>Shrub</li> <li>Forest species</li> <li>Medium trees</li> </ul>	<ul> <li>Able to Screen</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Along Roadside</li> <li>Public utilities boundary</li> <li>Between TNB- Turbine area and Housing area</li> </ul>	



P L A N

		PLANNING REQUIREMENT : URBAN DESIGN		
LAYOUT PLAN	BUILDING CHARACTER	HEIGHT, MASSING AND BUILDING SPACES	COLOUR TEXTURE	MISCELLANEOUS
<ul> <li>(i) The layout plan must demonstrate that the following elements are addressed in the design: <ul> <li>Development appropriate to topographical features</li> <li>Appropriate building orientation with respect to the sun</li> <li>Appropriate pedestrian and vehicular access systems</li> <li>Site infrastructure systems are designed in a manner which enhances site development</li> </ul> </li> <li>(ii) Illustrate the effective and efficient integration of the pedestrian, cycle and road systems</li> <li>Site infrastructure systems are designed in a manner which enhances site development</li> <li>(ii) Illustrate the effective and efficient integration of the pedestrian, cycle and road systems</li> </ul> (iii) Development is to be designed to work with site contours to avoid unnecessary cut and associated retaining structures (iv) Illustrate a high level of permeability between site uses within the Planning Blocks and with adjoining Planning Blocks (v) Illustrate appropriate site building setbacks from major traffic routes or other noise generating or potentially dangerous infrastructure	<ul> <li>provide a range of housing types to meet different lifestyle choices, diversity in the marketplace and opportunity for an interesting street frontage</li> <li>(ii) Ensure that buildings are designed to respect the topographical features of the site, eg buildings should step with steper sites – do not cut substantial benches into steep land</li> <li>(iii) Building design should respect the amenity of adjoining and adjacent buildings and their residents</li> <li>(iv) Building design should interpret local image and character with new materials that are energy efficient</li> <li>(v) Building facades should be designed to accommodate a tropical environment</li> <li>(vi) Designers should look to the use of innovative building materials that are less maintenance intensive and more environmentally efficient</li> <li>(vii) While diversity is sought in building design, buildings should be designed with a common theme that provides a linkage to the style and nature of the development area</li> <li>(viii) Building design should ensure good living environments for residents that do not adversely impact on neighbours</li> </ul>	<ul> <li>within these guidelines, and must comply with the UDG of Precinct 11 and 13</li> <li>(ii) Spaces on any ground level should not directly overlook dwellings on adjacent land</li> <li>(iii) Ground floor levels must be responsive to pedestrian foopaths and continuity and flow between buildings</li> <li>(iv) Building design does not significantly reduce daylight to open space and habitable rooms in adjacent development</li> <li>(v) Roof pitch and overlay should be designed to meet local environmental requirements</li> <li>(vi) Roof overhangs should be designed to minimise the impact on sight lines from adjacent buildings</li> <li>(vii) Buildings should be designed to encourage facade articulation and use of design elements that reduce building bulk and provide a pleasant street aspect. Any blank wall should be avoided.</li> <li>(viii) The design of free standing buildings should be sympathetic with adjoining buildings, yet provide for local identity and character</li> </ul>	<ul> <li>Building colours should harmonise with the predominant colours of the surrounding area</li> <li>Use of earth bnes shall be encouraged</li> <li>Colours for specific building types will be subject to the approval of the Perbadanan. Pastel colours are to be encouraged</li> </ul>	<ul> <li>(i) Privacy and visual controls - overlooking to be controlled by appropriate orientation of windows and use of splay windows</li> <li>(ii) Air conditioning equipment including piping - all equipment should be contained in compartments that are designed as an integral component of the building to ensure the equipment is hidden from view</li> <li>(ii) Drying yards - building design should incorporate appropriate design for drying areas that allows for natural ventilation and light while ensuring they are hidden from public view</li> <li>(iv) Aerials and satellite dishes - in high rise buildings or multiple tenancy commercial buildings, a central reception system is to be incorporated in to the building design. On all other buildings, aerials and satellite dishes shall be located to avoid adverse impact on the amenity of adjoining buildings</li> <li>(v) Service ducting shall not be exposed on the external surfaces of buildings</li> <li>(vi) Carports and garages should:         <ul> <li>Be designed to integrate with the design of associated buildings</li> <li>Not visually dominate views of the streetscape</li> <li>Not visually dominate views of the house from the street</li> <li>Cover the full length of a car</li> </ul> </li> </ul>

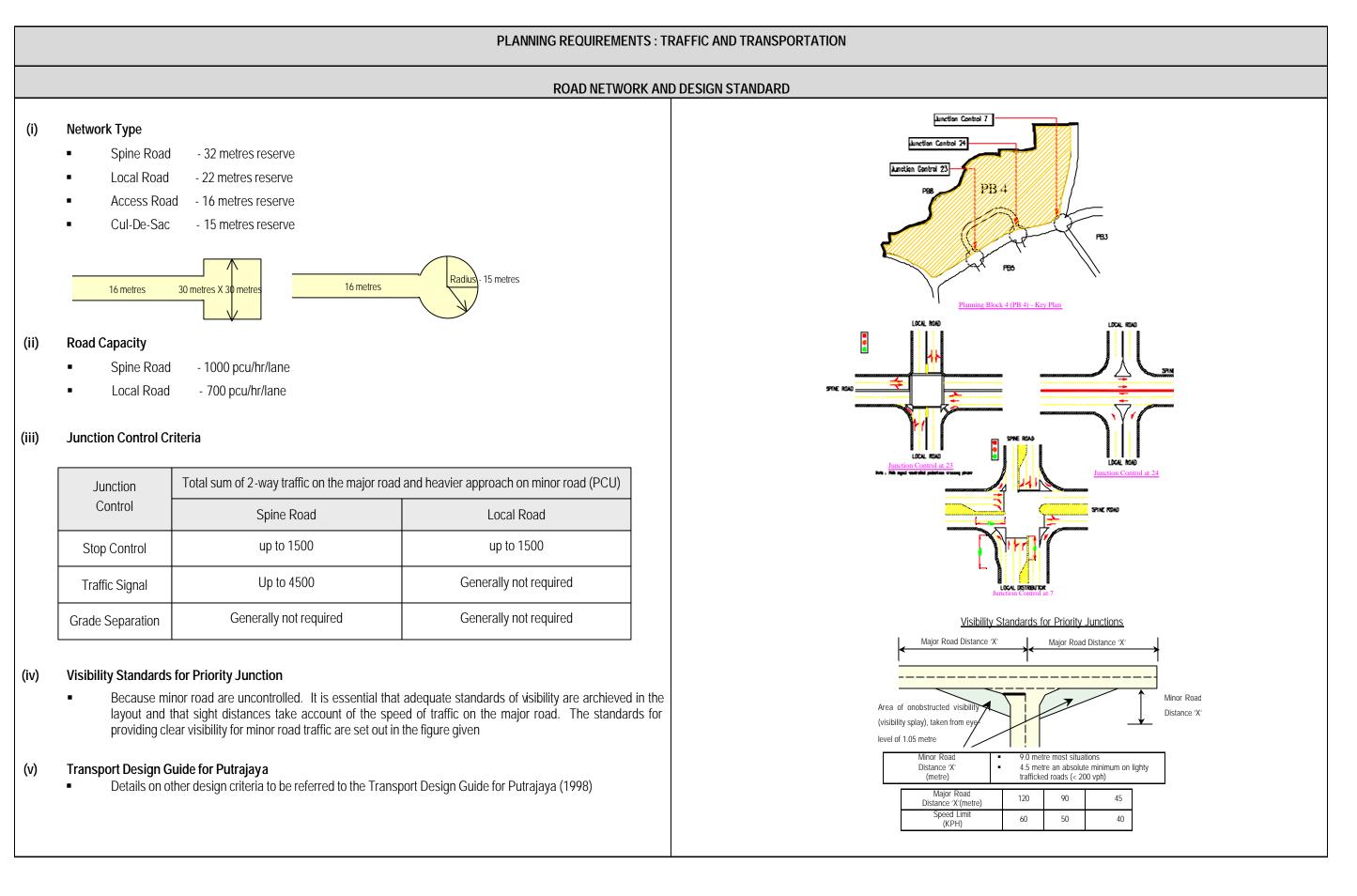
<ul> <li>(v) Illustate that the site will be developed in a logical sequence</li> <li>(vii) The layout plan should illustrate that the form of development effectively control development eff</li></ul>	PLANNING REQUIREMENT : URBAN DESIGN							
<ul> <li>logical sequence</li> <li>(vii) The layout plan should illustrate that the form of development effectively contributes to the Planning Block's sense of place and amenity with the context of Putrajaya</li> <li>(viii) The location of tadikas should:</li> <li>(viii) The location of tadikas should:</li> <li>Be in a highly accessible position for the community</li> <li>Minimise the introduction of non-local traffic into minor residential streets</li> <li>(x) Where applicable, the provisions of suraus, within apartment complexes should be a freestanding building</li> <li>(x) The apartment complexes should be a freestanding building</li> <li>(x) The apartment complexes should be a freestanding building</li> <li>(x) Maximum plinth foe apartment building is 60% of the site</li> </ul>	LAYOUT PLAN	MISCELLANEOUS						
Image: state of the state	<ul> <li>Illustate that the site will be developed in a logical sequence</li> <li>The layout plan should illustrate that the form of development effectively contributes to the Planning Block's sense of place and amenity with the context of Putrajaya</li> <li>The location of tadikas should: <ul> <li>Be in a highly accessible position for the community</li> <li>Minimise the introduction of non-local traffic into minor residential streets</li> </ul> </li> <li>Where applicable, the provisions of suraus, within apartment complexes should be a freestanding building</li> <li>The apartment complex must include 'drop off' points for the convenience of residents</li> </ul>	<ul> <li>(viii) Dwelling design must provide sufficient outdoor open space that can act as extension of the dwelling for relaxate entertainment, recreation and children's purposes</li> <li>(ix) The design of tadikas should: <ul> <li>Ensure that the playground is visu interesting and environmentally safe children</li> <li>The play area is protected from on and off site hazards</li> <li>The play area has adequate shade shelter areas</li> <li>The landscaping assist the education role of the facility</li> </ul> </li> <li>(x) Service station design shall: <ul> <li>Ensure safety, minimise pollution maintain visual amenity</li> <li>Be reasonably compatible appearance and scale with near buildings</li> <li>Include appropriate screening buffering that maintains or improves amenity of adjoining uses</li> <li>Ensure that no noise emissions vibrations from the site cause nuisance to nearby residents</li> </ul> </li> <li>(ix) For the installations of grills, residents n to abide by the guidelines on the Unifor Design and Installation of Grills for Buildin in Putrajaya (Department of Urban Service Putrajaya)</li> </ul>						

## PHYSICAL PLANNING REQUIREMENTS PLANNING BLOCK 4 (PB 4)

MAIN LAND USES:	BUNGALOWS	SEMI-DETACHED HOUSES	TERRACE HOUSE	GOVERNMENT APARTMENT	MOSQUE
(i) Density	8-10 unit/acre	12-18 unit/acre	20 unit/acre	Maximum 75 unit/acre	<ul><li>One in PB4</li><li>Maximum Plint Area : 50%</li></ul>
(ii) Composition	<ul> <li>High cost</li> </ul>	<ul> <li>90% government housing</li> </ul>	<ul> <li>5% government housing</li> </ul>		
(iii) Minimum Lot size	• 740m2	• 300m2	• 130m2	• N/A	<ul> <li>Min 0.85 ha</li> </ul>
(iv) Height	<ul><li>2 levels on flat or gently sloping land</li><li>3 levels on steep land</li></ul>	<ul><li>2 levels on flat or gently sloping land</li><li>3 levels on steep land</li></ul>	<ul> <li>2 levels on flat or gently sloping land</li> </ul>	Maximum 20 storey	
(v) Setbacks:					
<ul> <li>Front/Rear setbacks</li> </ul>	<ul> <li>Total setback distance for both the front and rear setbacks must total 9 metres</li> <li>Street frontage – min. 3.0 metres</li> <li>Rear setback – min. 3.0 metres</li> <li>Min. 3 m</li> <li>Min. 4.5 m</li> <li>Min. 3 m</li> <li>Min. 4.5 m</li> <li>Min. 3 m</li> <li>Min. 4.5 m</li> </ul>	<ul> <li>Total setback distance for both the front and rear setbacks must total 9 metres</li> <li>Street frontage – min. 3.0 metres</li> <li>Rear setback – min. 3.0 metres</li> </ul>	<ul> <li>Total setback distance for both the front and rear setbacks must total 9 metres</li> <li>Street frontage – min. 3.0 metres</li> <li>Rear setback – min. 3.0 metres</li> <li>Variation in setback is permissable within a single block of terraces and not for individual buildings.</li> </ul>	Building to building : Minimum 20m	<ul> <li>Setback from access road – min 12m</li> </ul>
<ul> <li>Non-Party/side boundary</li> </ul>	<ul> <li>Minimum 3 metres</li> <li>Min. 4 m</li> <li>Upper Level</li> <li>Sin</li> <li>Min. 3.5 m</li> <li>Ground Level</li> <li>Non-Party</li> <li>Boundary</li> <li>Minimum 4.0 m setback to upper level</li> </ul>	Minimum 3 metres	Where applicable minimum 3 metres		<ul> <li>Rear setback – 6m (min)</li> <li>Min 6 metres</li> </ul>
<ul> <li>Street boundary</li> </ul>	Minimum 3 metres	Minimum 3 metres	<ul> <li>Minimum 3 metres</li> </ul>	<ul> <li>Minimum 6 metres</li> </ul>	
<ul> <li>Setback Between Roof's Eaves</li> <li>Setback Between Buildings</li> </ul>	Minimum 2 metres     Property Line     2m     2m     2m     Min. 3m     Min. 3m	Minimum 2 metres     Property Line     2m     2m     Min. 3m     Min. 3m		$\frac{1}{20 \text{ m}}$	

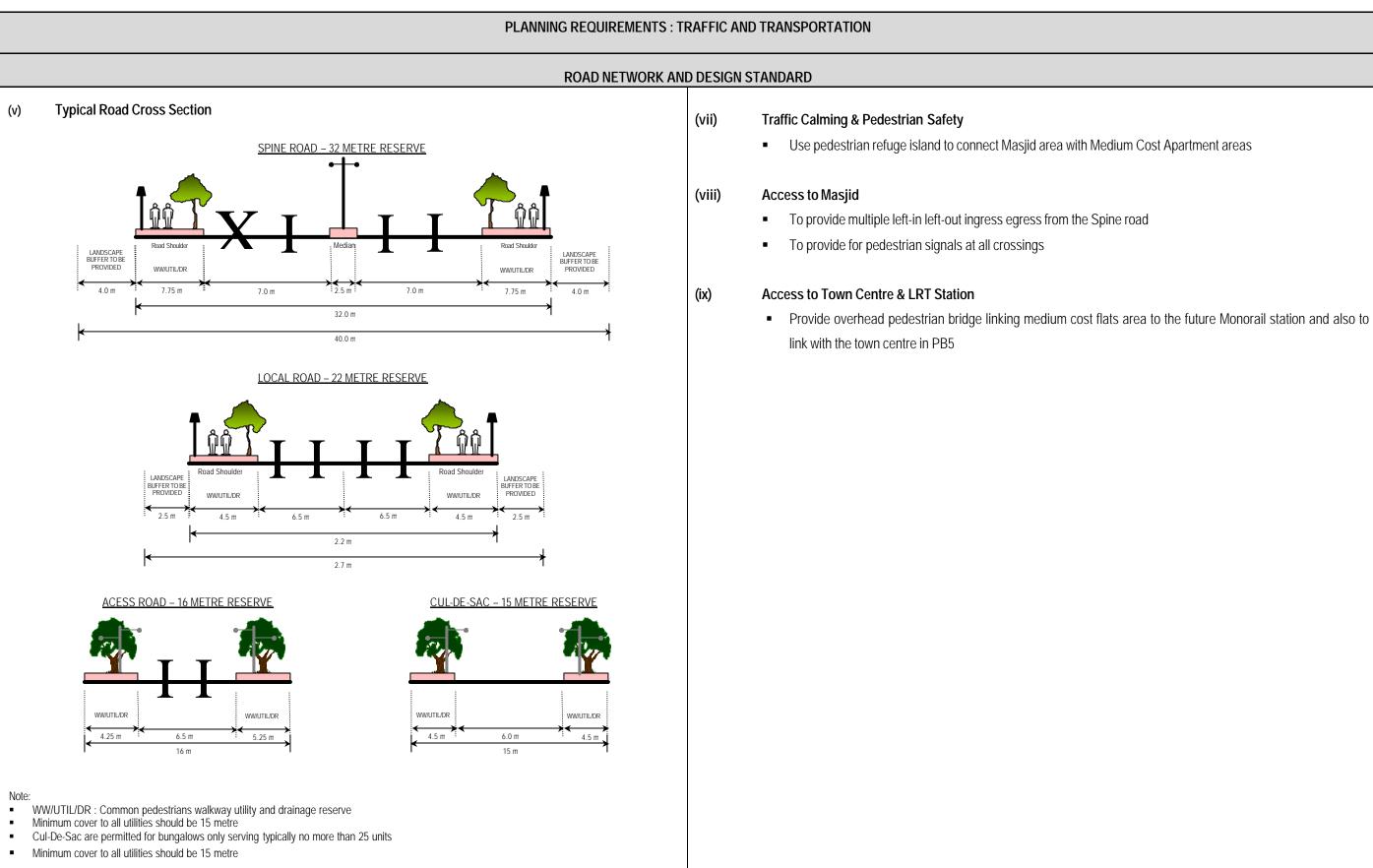
# Putrajaya Precinct 11 Local Plan

MAIN LAND USES:	BUNGALOWS	SEMI-DETACHED HOUSES	TERRACE HOUSE	GOVERNMENT APARTMENT	MOSQUE
• Car Park	<ul> <li>Min. 2 cps on site</li> <li>CPS to be clear of min. front setback.</li> </ul>	<ul> <li>Min. 2 cps on site</li> <li>CPS to be clear of min. front setback</li> </ul>	<ul> <li>Minimum 1 cps per unit</li> <li>CPS to be clear of minimum front setback</li> </ul>	<ul> <li>Minimum 1 CPS per unit+10%</li> <li>Provision for disabled parking at 1% of total number of cps</li> <li>Covered motorcycle bays at 1:1</li> <li>1 CPS : 1.5 unit + 10% visitor</li> <li>MPS – 50% of total housing unit</li> </ul>	<ul> <li>Minimum 80 CPS per unit</li> <li>1 CPS : 150 GFA</li> <li>1 MPS: 300 GFA</li> <li>BPS - min. 1 rack</li> <li>Min. 1 bus bay</li> <li>Disable at 1% of total no. of CPS or min. 2 parking spaces whichever is higher</li> </ul>
(vi) Fencing As per the Fencing Design Guidelines Manual, Volume 1 and Volume 2, chapter 1, 2 and 3	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 4</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 5</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 6</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 8</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, chapter 13</li> </ul>
(vii) Layout Plan	<text></text>	<text></text>	<ul> <li>Use the setback flexibility and building design variation to break up and vary the position of the houses</li> <li>To provide for a Tadika site of 0.5 acre</li> </ul>	<ul> <li>Provide a fenced children's playground</li> <li>Car park to be well landscaped</li> <li>Minimum 2m landscape buffer</li> <li>Service areas to be aesthetically screened</li> <li>Suitable size surau + ruang jenazah standard provision 80%XNo of unitsX0.4m2</li> <li>Community hall standards 1/3Xno of unitsX0.9m2</li> <li>1 Tadika (standard provision : 0.5 acre)</li> <li>Other community provision:         <ul> <li>Kindergarten</li> <li>Day Care Centre</li> <li>Laundry</li> <li>Car Wash Area</li> <li>Convenient Shop</li> <li>Courts Sepaktakraw or Volleyball</li> </ul> </li> </ul>	<ul> <li>Use the setback flexibility to vary the siting of the building</li> <li>Car park to be well landscaped</li> <li>Service area to be aesthetically screened</li> <li>Facilities for handicapped to be included in all designs</li> </ul>





P L A N

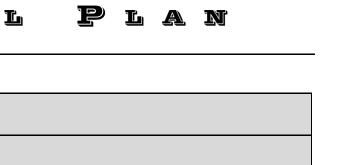


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with Mediun	n Cost Apa	artment	areas		

	PLANNING REQUIREMEN	NTS : INFRASTRUCTURE		
	UTIL	LITIES		
(i)	<ul> <li>Environment</li> <li>The precinct mosque is located within this planning block. To ensure noise reduction from traffic along the spine road, a minimum setback of 20 metres to be provided between the boundary and the mosque building. This 20 metres area can include space for car parking, as well as a minimum of 3 metres planting strip. Extensive planting shall be provided to reduce noise and air pollution</li> <li>The noise levels and air quality of this area must comply with the Perbadanan's Noise Standards and Air Quality Standards</li> </ul>	<ul> <li>(iii) Drainage</li> <li>Drainage to the site shall be provided in terms of collection, c</li> <li>Gross Pollutant Traps to be provided at the outlet of discharge</li> <li>The drainage design shall comply with the Putrajaya Stormw Masterplan Study Report for Putrajaya (1996), and Urban S 2000)</li> </ul>		
	<ul> <li>The detailed platform levels shall be determined at the D.0 approval stage</li> <li>All earthworks must comply with the Environmental Management Guidelines of Putrajaya and Earthwork By-Laws (Perbadanan Putrajaya 1996)</li> </ul>	<ul> <li>(iv) Sewerage</li> <li>A network of gravity sewer reticulation to collect sewage from</li> <li>From these reticulation networks, sewage will be discharged (Level 1 &amp; 2 works) at appropriate points.</li> </ul>		
(ii)	<ul> <li>Electricity</li> <li>The electricity supply for PB4 is mostly used for residential which are approximately 90% of the total Electrical Energy required.</li> <li>Provision of adequate numbers of 33KV Main Distribution Station (MDS) to be supported by a series of 11KV Sub-Stations (Double Chambers) and feeder pillars at strategic locations to comply with the electricity provider's (TNB) requirement.</li> <li>Feeder pillars along public roads and areas shall have all doors to open away from road and public view</li> <li>Electrical cabling network for overall development of PB4 shall consist of 33KV, 11KV and 415V distribution network systems.</li> <li>The electrical cabling network system shall be placed along the utility reserves to conform to the no dig policy. All electrical cabling shall be of the underground system.</li> <li>Sub-Station: shall have a minimum 6 metres setback on all sides to the nearest residential building. These shall be extensively landscaped.</li> <li>Fencing of utility buildings shall abide by Fencing Design Guidelines-Vol. 2, Chap. 15 pg. 132</li> </ul>	<ul> <li>The trunk sewers will terminate at two pump-stations. Thes (Levels 1 &amp; 2 works) located at the south of precinct 11, next</li> <li>From PS1 and PS9, sewage will be conveyed via the cer However, STP2 is not scheduled to be ready until Year 200 directed to the sewage switching station PS5 for onward con STP2.</li> <li>The buffer for a closed STP shall be 10 m to the nearest prop</li> <li>The buffer for an open STP system shall be 30 m to the nearest prop</li> <li>The buffer for an open STP system shall be 30 m to the nearest prop</li> </ul>		

l Plan
n, conveyance and retention of flow from the site. arge points.
nwater Management Design Guidelines (1998), Drainage In Stormwater Management Manual for Malaysia, (JPS,
om the precinct. (Level 3 works.) ged into the centralized trunk sewer system of Putrajaya
hese two pump stations are PS1 in Precinct 9 and PS9 ext to Road R3.
centralized trunk sewer system to STP2 for treatment. 2003. In the interim, sewage discharge will be temporary conveyance to STP1 for treatment until the completion of
roperty boundary
earest property boundary
Property Boundary Green Area / Buffer Road 10 metres House/ Commercial

## **PLANNING REQUIREMENTS : INFRASTRUCTURE** UTILITIES (v) Gas • The gas supply for PB4 is mostly used for residential which are approximately 80% of the total gas The estimated generation of solid waste for recreation park/public transport stop station are 0.2 kg/visitor, 300L/1000m<sup>2</sup>(gross floor area) for shopping complex and 500L/1000m<sup>2</sup>(gross floor area) for restaurant. requirements. Gas supply for PB4 will be served from a District Gas Station located at Precinct 9 through a medium pressure Access road must be constructed for the ease of mechanical collection and public use. Obstructions to any collection gas pipeline. vehicle's access must be disallowed at all time. Provisions of 4 nos. of area Gas Station are allocated within the Precinct 11 development to cater for the • projected gas loading requirements, with total area reserve of 1.13 acres. Low-pressure gas pipeline reticulation from the Area Gas Station is planned to serve the gas requirements for • the residential, commercial and other amenities Safety provision for construction within the vicinity (For details of Gas Pipeline Reserve Design refer Appendix 1) (vi) Waste Disposal Solid waste management in PB4 shall address reduction, reuse, recycling and recovery, the 4 R's of waste (vii) Water Supply management. • Water supply to PB4 shall be consistent with the provision of water supply master plan for Putrajaya. Solid waste is proposed to be separated at source, by residents or employees, into three streams; dry recycles, wet waste and rubbish (all other wastes). The dry recyclable is to be further separated at source into containers Storage reservoir and pumping station together with the rising and falling mains shall be planned to serve this area in and fiber materials. compliance with Jabatan Bekalan Air (JBA) requirement, and Design Criteria and Standards for Water Supply System, The sensitivity of the site in terms of waste management relates to the operational requirements of Precinct 11, JKR (1989). which require that no burial of material is undertaken during the construction phase. In addition to control odour nuisance to any sensitive receptors biodegradable waste cannot be left at the site for extended periods. The waste management shall comply with Urban Design Guidelines and Environmental Guidelines for Putrajaya. For low rise residential, refuse chamber is to be placed in front of the house, either left or right of the driveway and near to main road for the ease of mechanical collection. The estimated generation of solid waste is 5kg/unit/day.





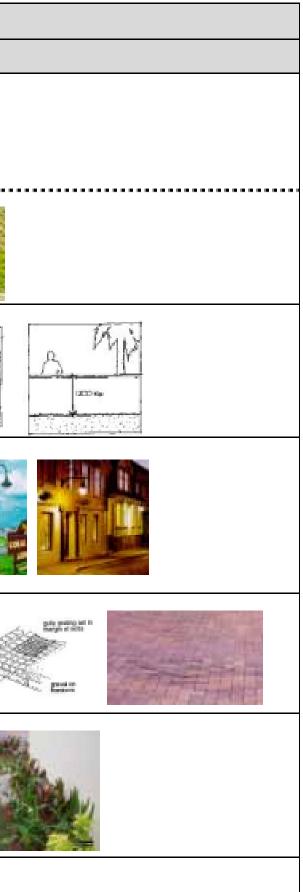
			PLANNING REQU	IREMENT : LANDSCAP	E
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
<ul> <li>Residential ( Landed )</li> </ul>	<ul> <li>Paving, walls and steps</li> <li>Informal</li> <li>Formal</li> <li>Contemporary</li> </ul>	<ul> <li>Paving / Step         <ul> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul> </li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Durable</li> </ul>	<ul> <li>Building compound</li> </ul>	
		<ul> <li>Walls         <ul> <li>Key stone</li> <li>Concrete</li> <li>Fencing brick etc.</li> </ul> </li> </ul>	<ul> <li>Harmonize with surrounding</li> </ul>	– Boundary line	
	<ul> <li>Fence, Gate and Barrier</li> <li>Contemporary</li> <li>Formal</li> <li>Traditional</li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>To follow Fencing Detail Guideline Putrajaya</li> </ul>	<ul> <li>Boundary line</li> <li>Entrance</li> </ul>	The L Hard France
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Informal</li> <li>Formal</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul><li>Durable</li><li>Attractive</li><li>Safe</li></ul>	<ul> <li>Building compound</li> </ul>	
	<ul> <li>Drainage         <ul> <li>Swales</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Concealed drains</li> </ul>	<ul> <li>Building lot</li> </ul>	Harden and
	<ul> <li>Planting         <ul> <li>Formal</li> <li>Informal</li> </ul> </li> </ul>	– Tree – Palm – Shrub – Groundcover	<ul> <li>Non-poisonous species</li> <li>Strong branch</li> <li>Medium size trees</li> </ul>	<ul> <li>Building compound</li> </ul>	
	<ul> <li>Irrigation Strategy</li> </ul>	Tap from storage tank or JBA m	ain or tap from JBA main		











	PLANNING REQUIREMENT : LANDSCAPE						
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION			
<ul> <li>Residential (Condominium, Government apartment)</li> </ul>	<ul> <li>Paving / Step, Wall</li> <li>Formal</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max-gradient of 8%</li> <li>Durable</li> </ul>	– Open space – Walkway			
		<ul> <li>Wall</li> <li>Keystone</li> <li>Facing Brick</li> <li>Concrete etc.</li> </ul>	Harmonize with surrounding environment	– Slope areas			
	<ul> <li>Site Furniture</li> <li>Contemporary</li> <li>Elegant formal</li> <li>Specific design for neighbourhood</li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Resting areas</li> </ul>			
	<ul> <li>Lighting</li> <li>Contemporary</li> <li>Elegant formal</li> <li>Specific design for neighbourhood</li> </ul>	<ul> <li>Concrete</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Open space</li> <li>Entrance with bollard</li> <li>Roadside</li> </ul>			
	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> </ul>	<ul> <li>Where necessary</li> </ul>	The second secon		
	<ul> <li>Structures and Shelter</li> <li>Informal</li> <li>Vernacular</li> </ul>	<ul> <li>Hardwood</li> <li>Concrete</li> <li>Masonry</li> <li>Metal</li> </ul>	<ul> <li>To blend harmoniously with surrounding structure</li> <li>Durable</li> <li>Safe</li> </ul>	– Open space			
	<ul> <li>Signage         <ul> <li>Contemporary</li> <li>Informal</li> <li>Formal</li> </ul> </li> </ul>	– Metal	<ul> <li>To following Signage and Advertisement Design Guideline, PJC</li> </ul>	<ul> <li>Entrance</li> <li>Open space</li> <li>Pedestrian walkway</li> </ul>			



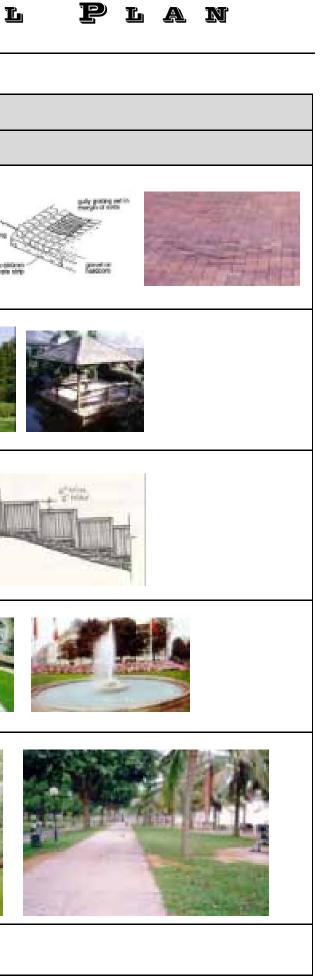
PUTRAJAYA PRECINCT 11 LOCAL PLAN

		PLANNING REQUIREMENT : LANDSCAPE					
LANDUS		MATERIALS	GENERAL REQUIREMENT	USE/LOCATION			
<ul> <li>Residentia (Condomin Governme apartment</li> </ul>	nium,	<ul> <li>Metal</li> <li>Rubber matting</li> <li>Plastic</li> </ul>	<ul> <li>Conform to SIRIM standard</li> <li>Safe</li> <li>Attractive</li> <li>Durable</li> </ul>	– Open space			
	<ul> <li>Water features         <ul> <li>Informal</li> <li>Natural</li> </ul> </li> </ul>	– Boulders – Stone	<ul><li>Safe</li><li>Attractive</li></ul>	<ul> <li>At view point</li> <li>Seating areas</li> </ul>			
Mosque	<ul> <li>Paving / Step, Wall</li> <li>Formal</li> <li>Islamic design</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Tiles etc</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient of 8%</li> <li>Max. gradient 2 % for superelevation</li> <li>Durable</li> </ul>	– Open space – Plaza			
		<ul> <li>Wall</li> <li>Keystone</li> <li>Granite stone</li> <li>Concrete etc.</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> <li>Visually attractive</li> </ul>	– Slope areas			
	<ul> <li>Site Furniture</li> <li>Simple</li> <li>Islamic</li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Stone</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Plaza</li> <li>Road side</li> </ul>			
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Islamic</li> </ul> </li> </ul>	<ul> <li>Concrete</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>Max. height 4m for open areas</li> <li>Max. height 10m for roadside</li> </ul>	<ul> <li>Entrance at bollard</li> <li>Roadside</li> <li>Plaza</li> </ul>			



Putrajaya Precinct 11 Local

			PLANNING REQU	JIREMENT : LANDSCA	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
December 2014	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>To harmonize with surrounding environment</li> </ul>	– All drain system	The state of the s
	<ul> <li>Structure and Shelter         <ul> <li>Islamic</li> <li>Contemporary</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> <li>Masonry</li> <li>Poly cabonate etc.</li> </ul>	<ul> <li>Sustainable design</li> <li>Proportion to human scale and surrounding structure</li> <li>To blend harmoniously with surrounding environment</li> </ul>	– Plaza – Open space	
	<ul> <li>Fences, Gates and Barriers</li> <li>Formal</li> <li>Islamic</li> <li>Contemporary</li> </ul>	<ul> <li>Masonry</li> <li>Metal</li> <li>Planting</li> </ul>	<ul> <li>To suit architectural design</li> <li>To blend naturally with surrounding environment</li> <li>To follow Fencing Design Guideline PJC</li> </ul>	<ul><li>Entrance</li><li>Plaza</li><li>Open space</li></ul>	
	<ul> <li>Water feature</li> <li>Islamic</li> <li>Safe</li> <li>Natural</li> </ul>	<ul> <li>Concrete</li> <li>Masonry</li> <li>Metal etc.</li> </ul>	– Safe – Attractive	– Entrance – Plaza – Open space	
	<ul> <li>Planting         <ul> <li>Formal</li> <li>Natural</li> </ul> </li> </ul>	<ul> <li>Palm</li> <li>Tree</li> <li>Shrub</li> <li>Ground cover</li> </ul>	<ul> <li>Hardy</li> <li>Low maintenance</li> <li>Attractive</li> <li>Non-poisonous</li> </ul>	– All green areas	
	Irrigation Strategy	Tap from storage tank, trucking	l or JBA main.		



	PLANNING REQUIREMENT : LANDSCAPE					
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION		
Hill Top Park	<ul> <li>Paving / Step, Wall and Kerbs</li> <li>Informal</li> <li>Robust</li> <li>Reflect character of adjacent neighbourhood</li> </ul>	<ul> <li>Paving/Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> <li>Grasscrete</li> </ul>	<ul> <li>Anti-Shipping surface</li> <li>Max. gradient 8%</li> <li>Durable</li> <li>Attractive</li> </ul>	<ul><li>Open space</li><li>Footpaths</li></ul>		
		<ul> <li>Wall</li> <li>Key stone</li> <li>Facing brick finish</li> <li>Concrete finish etc.</li> </ul>	<ul> <li>Harmonize with surrounding structure</li> </ul>	– Slope areas		
	<ul> <li>Site Furniture         <ul> <li>Robust</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Timber</li> <li>Metal</li> <li>Stone concrete</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Pedestriant walkway</li> </ul>		
	<ul> <li>Lighting         <ul> <li>Robust</li> <li>Minimal</li> <li>Reflect character of adjacent neighbourhood</li> </ul> </li> </ul>	<ul> <li>Timber</li> <li>Metal</li> <li>Concrete etc.</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Footpaths</li> <li>Cycle track</li> <li>Car park</li> <li>Open space</li> </ul>		
	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	<ul> <li>Where necessary</li> </ul>	The first strengtheres and the	
	Irrigation Strategy	– Pipe reticulation from pond	l and supported by trucking or tap f	form JBA main		
	<ul> <li>Structures and Shelter</li> <li>Informal</li> <li>Vernacular</li> <li>Robust</li> </ul>	– Stone – Timber – Metal	<ul> <li>Sustainable design</li> <li>Proportion to human scale</li> <li>Functional</li> <li>Blend to the surrounding areas</li> </ul>	– Open space		







	PLANNING REQUIREMENT : LANDSCAPE					
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION		
Hill Top Park	<ul> <li>Play features</li> <li>Integrated</li> <li>Robust</li> <li>Minimal</li> </ul>	<ul> <li>Metal</li> <li>Plastic</li> <li>Fiber glass</li> </ul>	<ul> <li>Conform to SIRIM standards</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Children's play areas for all age groups</li> </ul>		
	<ul> <li>Sports feature         <ul> <li>Reflecting natural features and topography</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Grass</li> <li>Concrete</li> <li>Sand</li> </ul>	– Durable – Safe	<ul> <li>Kick around areas</li> <li>Games court</li> </ul>		
	<ul> <li>Signage         <ul> <li>Informal</li> </ul> </li> </ul>	– Timber – Metal – Stone	<ul> <li>To following Signage and Advertisement Design Guideline, PJC</li> </ul>	<ul> <li>Directional</li> <li>Entrance sign</li> </ul>		
	<ul> <li>Fences, Railings and Barriers         <ul> <li>Follow UDL guideline</li> <li>Robust</li> </ul> </li> </ul>	– Timber – Metal – Stone	<ul> <li>To suit Arc Design</li> <li>To blend naturally to surrounding areas</li> <li>To following Fencing Design Guideline, PJC</li> </ul>	<ul> <li>Boundary fence to children's play areas</li> </ul>		
	<ul> <li>Water features</li> <li>Informal</li> <li>Natural</li> </ul>	<ul><li>Boulders</li><li>Stone</li></ul>	– Safe – Attractive	<ul> <li>At view point</li> <li>Seating areas</li> </ul>		
Hill Top Park	<ul> <li>Planting         <ul> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Tree</li> <li>Palm</li> <li>Shrub</li> <li>Groundcover</li> <li>Turfing</li> </ul>	<ul> <li>Medium size tree &amp; palm</li> <li>Flowering shrub</li> <li>Non-poisonous species</li> <li>Low maintenance planting</li> </ul>	– All green areas		
D Buffer	<ul> <li>Planting         <ul> <li>Natural</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Palm</li> <li>Shrub</li> <li>Forest species</li> <li>Medium trees</li> </ul>	<ul> <li>Able to Screen</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Along Roadside</li> <li>Public utilities boundary</li> <li>Between TNB- Turbine area and Housing area</li> </ul>		













	PLANNING REQUIREMENT : URBAN DESIGN								
	LAYOUT PLAN		BUILDING CHARACTER	HE	IGHT, MASSING AND BUILDING SPACES		COLOUR TEXTURE		MISCELLANEOUS
(i)	The layout plan must demonstrate that the following elements are addressed in the design:	(i)	Avoid monotonous building designs – provide a range of housing types to meet different lifestyle choices, diversity in the	(i)	Building design must comply with all provisions relating to plot ratio, plinth, building height and setbacks as contained		Building colours should harmonise with the predominant colours of the surrounding area	(i)	Privacy and visual controls – overlooking to be controlled by appropriate orientation of windows and use of splay windows
	<ul> <li>Development appropriate to topographical features</li> <li>Appropriate building orientation with</li> </ul>		marketplace and opportunity for an interesting street frontage	(ii)	within these guidelines Spaces on any ground level should not	(ii) (iii)	Use of earth tones shall be encouraged Colours for specific building types will be	(ii)	Air conditioning equipment including piping – all equipment should be contained in
	<ul> <li>respect to the sun</li> <li>Appropriate pedestrian and vehicular access systems</li> </ul>	(ii)	Ensure that buildings are designed to respect the topographical features of the site ,eg buildings should step with steeper sites –	(iii)	directly overlook dwellings on adjacent land Ground floor levels must be responsive to		subject to the approval of the Perbadanan. Pastel colours are to be encouraged.		compartments that are designed as an integral component of the building to ensure the equipment is hidden from view
	<ul> <li>Site infrastructure systems are designed in a manner which enhances site development</li> </ul>		do not cut substantial benches into steep land	.,	pedestrian footpaths and continuity and flow between buildings	(iv)	For mosque: External façade colour scheme b blend with surrounding developments whilst promoting	(iii)	Drying yards – building design should incorporate appropriate design for drying
(ii)	Illustrate the effective and efficient integration of the pedestrian, cycle and road systems	(iii)	Building design should respect the amenity of adjoining and adjacent buildings and their residents	(iv)	Building design does not significantly reduce daylight to open space and habitable rooms in adjacent development		the purity of Islam.		areas that allows for natural ventilation and light while ensuring they are hidden from public view
(iii)	Development is to be designed to work with site contours to avoid unnecessary cut and	(iv)	Building design should interpret local image and character with new materials that are energy efficient		Roof pitch and overlay should be designed to meet local environmental requirements			(iv)	Aerials and satellite dishes – in high rise buildings or multiple tenancy commercial buildings, a central reception system is to b
(iv)	associated retaining structures Illustrate a high level of permeability between site uses within the Planning Block	(v)	Building facades should be designed to accommodate a tropical environment	(vi)	Roof overhangs should be designed to minimise the impact on sight lines from adjacent buildings	-	AND DESCRIPTION OF A DESCRIPTION OF		incorporated in to the building design. On all other buildings, aerials and satellite dishes shall be located to avoid adverse impact on the amenity of adjoining buildings
(v)	and with adjoining Planning Blocks			(vii)	Buildings should be designed to encourage facade articulation and use of design elements that reduce building bulk and			(v)	Service ducting shall not be exposed on the external surfaces of buildings
	from major traffic routes or other noise generating or potentially dangerous infrastructure		THIS -ITH		provide a pleasant street aspect. Any blank wall should be avoided.			(vi)	<ul><li>Carports and garages should:</li><li>Be designed to integrate with the design of associated buildings</li></ul>
(vi)	Illustrate that the site will be developed in a logical sequence				A A				<ul> <li>Not diminish the attractiveness of the streetscape</li> <li>Not visually dominate views of the</li> </ul>
(vii)	The layout plan should illustrate that the form of development effectively contributes to the Planning Block's sense of place and	(vi)	Designers should look to the use of						<ul><li>house from the street</li><li>Cover the full length of a car</li></ul>
	amenity with the context of Putrajaya		innovative building materials that are less maintenance intensive and more environmentally efficient					(vii)	Dwellings with green frontage must address that frontage with habitable spaces and not service areas only
		(vii)	While diversity is sought in building design, buildings should be designed with a common theme that provides a linkage to the style and nature of the development area		The design of free standing buildings should be sympathetic with adjoining buildings, yet provide for local identity and character			(viii)	Dwelling design must provide sufficient outdoor open space that can act as an extension of the dwelling for relaxation, entertainment, recreation and children's play
		(viii)	Building design should ensure good living environments for residents that do not adversely impact on neighbours	(ix)	For mosque: Roof forms of the building to reflect Islamic architecture and identity.				purposes

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			PL	ANNING REQUIREMENT : URBAN DESIG	GN
	LAYOUT PLAN		BUILDING CHARACTER	HEIGHT, MASSING AND BUILDING SPACES	COLOUR TEXTURE
(viii) (ix) (x) (xi)	<ul> <li>The location of tadikas should:</li> <li>Be in a highly accessible position for the community</li> <li>Minimise the introduction of non-local traffic into minor residential streets</li> <li>Internal layout of mosque to accommodate for mass prayers.</li> <li>Where applicable, the provisions of suraus, within apartment complexes should be a freestanding building.</li> <li>The apartment complex must include 'drop</li> </ul>	(x)	<ul> <li>The building design should incorporate landscaping that contributes to a pleasant and safe environment and integrates well with the streetscape and adjoining open space areas</li> <li>For high rise buildings: <ul> <li>Pedestrian spaces, courts, landscape or recreation areas should be more prominent than vehicle movement and utility spaces</li> <li>Vehicle parking design and location should minimise impact on adjacent dwellings</li> </ul> </li> </ul>		
(xii)	off' points for the convenience of residents. Maximum plinth foe apartment building is 60% of the site		<ul> <li>Safe and convenient internal access to parking, residential and service areas</li> </ul>		

**MISCELLANEOUS** 

(ix)	The design of tadikas should:
	<ul> <li>Ensure that the playground is visually interesting and environmentally safe for children</li> </ul>
	• The play area is protected from on site and off site hazards
	• The play area has adequate shade and shelter areas
	The landscaping assist the educational role of the facility
(x)	For the installations of grills, residents need to abide by the guidelines on the Uniform Design and Installation of Grills for Buildings in Putrajaya (Department of Urban Services, Putrajaya)
(xi)	Any changes to the façade and design of buildings must seek planning permission for Perbadanan Putrajava.

## PHYSICAL PLANNING REQUIREMENTS PLANNING BLOCK 5 (PB 5)

MAIN LAND USES:	CONDOMINIUM	GOVERNMENT APARTMENT	COMMERCIAL CENTRE
(i) Density	Maximum 60 units/acre	Maximum 75 units/acre	Plot Ratio : 1:3
(ii) Composition	High Cost		
(iii) Minimum Lot size	<ul><li>N/A</li><li>Maximum 8 storey</li></ul>	<ul> <li>N/A</li> <li>Maximum 12 storey</li> </ul>	<ul> <li>Minimum 8 ha</li> <li>Maximum 5-6 storey</li> </ul>
(iv) Height	Note: 17 storey upon approval from PJC	Note: 17 storey upon approval from PJC	
(v) Setbacks:	<ul> <li>Building to building : Minimum 20 metres</li> </ul>	Building to building : Minimum 20 metres	Building to building : Minimum 20 metres
	Building 20m Building		
<ul> <li>Street boundary</li> </ul>	<ul> <li>Minimum 6 metres</li> </ul>	<ul> <li>Minimum 6 metres</li> </ul>	<ul> <li>Minimum 6 metres</li> </ul>
<ul> <li>Distance Between Building</li> </ul>	<ul> <li>20 metres setback between buildings or average of building heights</li> </ul>	<ul> <li>20 metres setback between buildings or average of building heights</li> </ul>	
	Where : • $z = x + y$ • Whichever is greater z = x + y z = x	Where : • $Z = \frac{x + y}{Z}$ • Whichever is areater • $Z = \frac{x + y}{Z}$	
<ul> <li>Car Park</li> </ul>	<ul> <li>Minimum 1 cps per unit + 10% for visitors</li> <li>Car parking for disabled at 1% of total number of cps.</li> <li>Mps – 50% of total housing</li> <li>Bps – 1 rack : 50 housing unit</li> </ul>	<ul> <li>Minimum 1 cps per unit + 10% for visitors</li> <li>Car parking for disabled at 1% of total number of cps.</li> <li>Mps – 50% of total housing</li> <li>Bps – 1 rack : 50 housing unit</li> </ul>	<ul> <li>Minimum 1 CPS per 500 sq.ft</li> <li>Car parking for disabled at 1% of tot number of cps.</li> <li>1 mps – 150 gfa</li> <li>1 cps – 70 gfa</li> </ul>
	4.88metres	4.88metres	2.44m 18.29m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

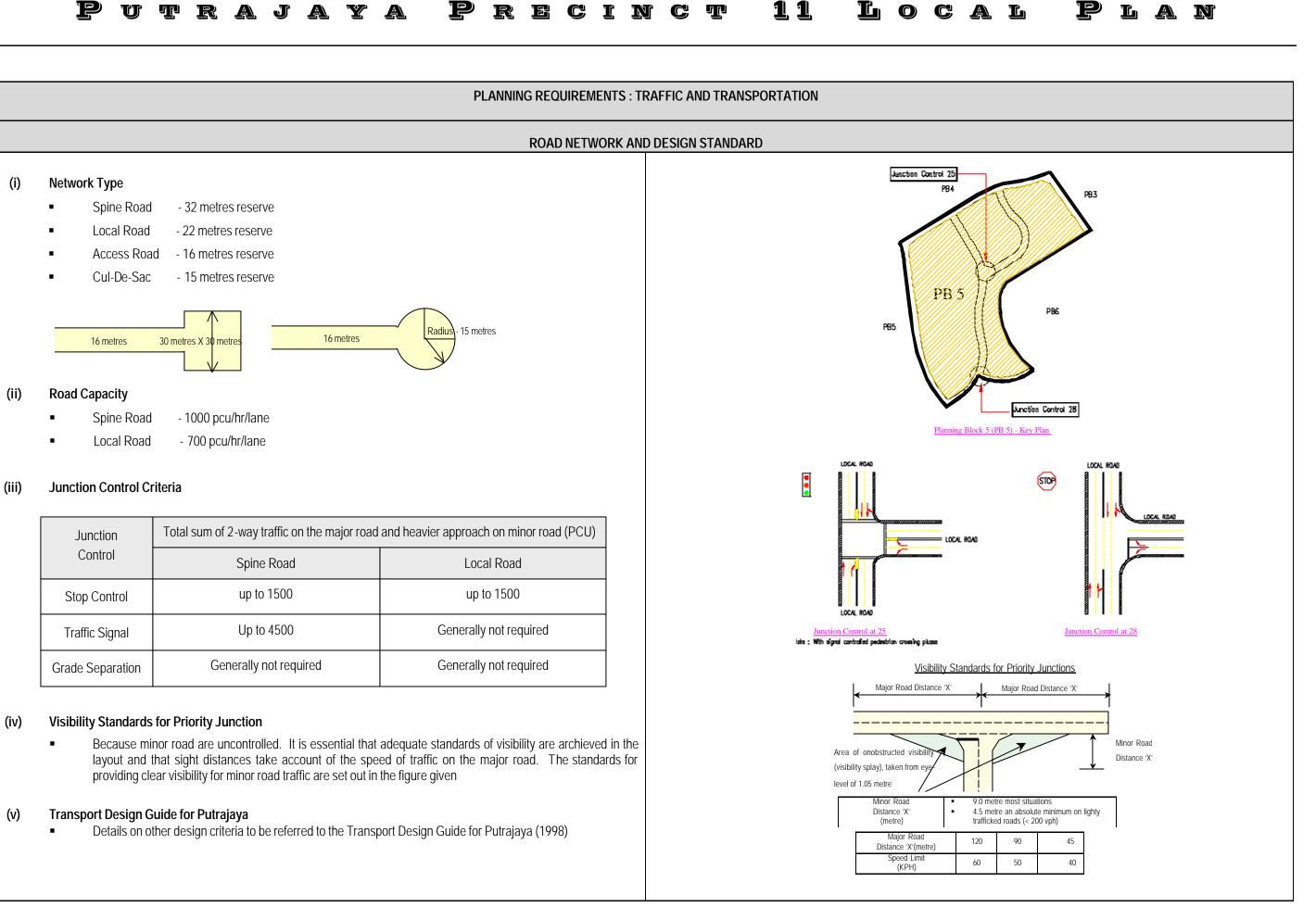
		PUTRAJAYA SERVICE CENTRE
	•	1 plot within commercial centre Maximum Plint Area : 40%
	•	Minimum 0.40 hac.
6	•	Building to building : Minimum 20 metres
	•	N/A
total	-	Minimum 1 CPS per 500 sq.ft

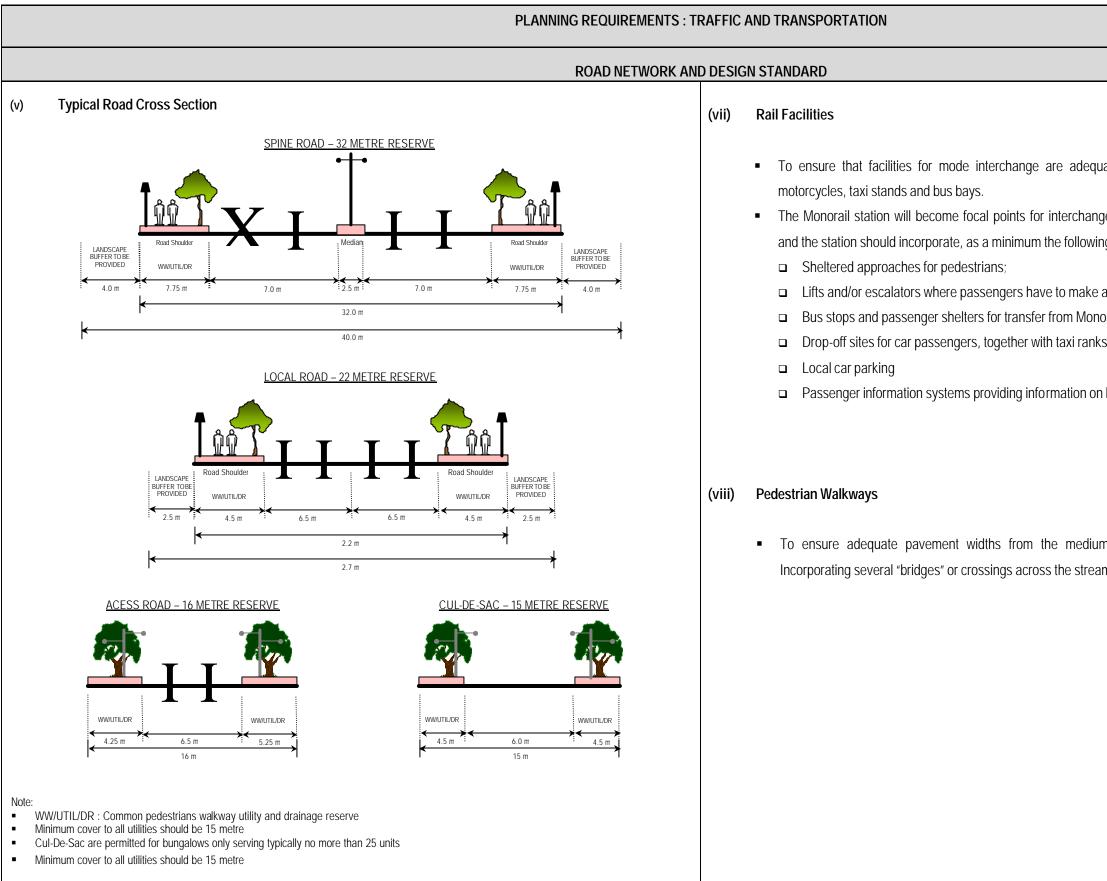
# Putrajaya Precinct 11 Local Plan

	MAIN LAND USES:	CONDOMINIUM	GOVERNMENT APARTMENT	COMMERCIAL CENTRE
(vi)	Fencing As per the Fencing Design Guidelines Manual, Volume 1 and Volume 2, clauses 1, 2 and 3	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, clause 8</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manual, Volume 2, clause 8</li> </ul>	<ul> <li>Refer Fencing Design Guidelines Manus Volume 2, clause 19</li> </ul>
(vii)	Layout Plan	<ul> <li>Provide a fenced childrens playground.</li> <li>Suitable size surau + ruang jenazah standard provision 50%XNo of unitsX0.4m2</li> <li>GYM and sport facilities</li> <li>Club house or community hall</li> <li>Car park to be well landscaped</li> <li>Min 2 m landscape buffer to all boundaries.</li> <li>Service areas to be aesthetically screened.</li> <li>Other community provision: <ul> <li>Kindergarten</li> <li>Day Care Centre</li> <li>Laundry</li> <li>Car Wash Area</li> <li>Convenient Shop</li> <li>Courts Sepaktakraw or Volleyball</li> </ul> </li> </ul>	<ul> <li>Provide a fenced children's playground-Minimum 500m2</li> <li>Car park to be well landscaped</li> <li>Minimum 2m landscape buffer</li> <li>Service areas to be aesthetically sereened</li> <li>Suitable size surau standard provision 80%XNo of unitsX0.4m2</li> <li>Community hall standards 1/3Xno of unitsX0.9m2</li> <li>1 Tadika (standard provision : 0.5 acre)</li> <li>Other community provision: <ul> <li>Kindergarten</li> <li>Day Care Centre</li> <li>Laundry</li> <li>Car Wash Area</li> <li>Convenient Shop</li> </ul> </li> <li>Courts Sepaktakraw or Volleyball</li> </ul>	<ul> <li>Layout plans to show the design concericluding:         <ul> <li>Total gross net areas of indoor, outdoor roofed shade and other outdoor shad areas.</li> <li>Service areas to be aesthetica screened.</li> <li>Site car parking to be clearly indicated</li> <li>Site car parking to be landscaped.</li> <li>Min 2m landscaped buffer between carparking spaces and any boundary.</li> <li>Initiate stacked outdoor play area carparking.</li> <li>Indicate car parking set down/pick u areas - to be visible from road.</li> <li>Indicate pedestrian access to/from th site and connection to surroundin pedestrian pathways.</li> <li>Where boundaries abutt resident dwellings, carefully locate potentia noisy activities to minimise impacts.</li> <li>Show appropriate screening th protects the amenity of abuttin residential uses</li> </ul> </li> </ul>



	PUTRAJAYA SERVICE CENTRE
nual,	
acept door, hade ically ed. a car reas, c up the ading ential trially that	<ul> <li>Layout plan to show the design concept including:         <ul> <li>Location of all key facilities.</li> <li>Location of car parking spaces</li> <li>Loc ation of screening devices to minimise impact of noise producing machinery.</li> <li>Effective screening to abutting residential uses</li> </ul> </li> </ul>





l Plan
quately provided, particularly for parking of cars and
ange between cars, motorcycle, taxis, bus and Monorail wing facilities.
ke a change in level; pnorail to bus; nks/stands;
on bus and Monorail services.
ium cost apartment areas towards the town centre. eams, and Lakes

**PLANNING REQUIREMENTS : INFRASTRUCTURE** UTILITIES (i) Environment (v) Sewerage The detailed platform levels shall be determined at the D.0 approval stage A network of gravity sewer reticulation to collect sewage f All earthworks must comply with the Environmental Management Guidelines of Putrajaya and Earthwork By-Laws From these reticulation networks, sewage will be dischar (Perbadanan Putrajaya 1996) (Level 1 & 2 works) at appropriate points. The trunk sewers will terminate at two pump-stations. T • (ii) Electricity (Levels 1 & 2 works) located at the south of precinct 11, ne The electricity supply for PB5 is mostly used for residential which are approximately 90% of the total Electrical From PS1 and PS9, sewage will be conveyed via the • • Energy required. However, STP2 is not scheduled to be ready until Year Provision of adequate numbers of 33KV Main Distribution Station (MDS) to be supported by a series of 11KV Subdirected to the sewage switching station PS5 for onward STP2. Stations (Single & Double Chambers) and feeder pillars at strategic locations to comply with the electricity provider's (TNB) requirement. The buffer for a closed STP shall be 10 m to the nearest p Feeder pillars along public roads and areas shall have all doors to open away from road and public view The buffer for an open STP system shall be 30 m to the ne Electrical cabling network for overall development of PB5 shall consist of 33KV, 11KV and 415V distribution Pump Station network systems. The electrical cabling network system shall be placed along the utility reserves to conform to the no dig policy. All STP Fend electrical cabling shall be of the underground system. Sub-Station: shall have a minimum 6 metres setback on all sides to the nearest residential building. These shall be extensively landscaped. 5 metres minimu Access and Screening Fencing of utility buildings shall abide by Fencing Design Guidelines-Vol. 2, Chap. 15 pg. 132 (vi) Gas 6 metres The gas supply for PB5 is mostly used for residential which 6 metres Gas supply for PB5 will be served from a District Gas Sta pipeline. Provisions of 4 nos. of area Gas Station are allocated with TNB Greer House Road 15 metres Area Sub-Station Area gas loading requirements, with total area reserve of 1.13 a Drainage Low-pressure gas pipeline reticulation from the Area Gas Drainage to the site shall be provided in terms of collection, conveyance and retention of flow from the site. residential, commercial and other amenities. Gross Pollutant Traps to be provided at the outlet of discharge points. Safety provision for construction within the vicinity. The drainage design shall comply with the Putrajaya Stormwater Management Design Guidelines (1998), Drainage (For details of Gas Pipeline Reserve Design refer Append

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Masterplan Study Report for Putrajaya (1996), and Urban Stormwater Management Manual for Malaysia, (JPS,

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rom the precinct. (Level 3 works.) rged into the centralized trunk sewer system of Putrajaya
These two pump stations are PS1 in Precinct 9 and PS9 lext to Road R3.
centralized trunk sewer system to STP2 for treatment. 2003. In the interim, sewage discharge will be temporary conveyance to STP1 for treatment until the completion of
property boundary earest property boundary
Green Area / Buffer Road 10 metres
h are approximately 80% of the total gas requirements. tion located at Precinct 9 through a medium pressure gas
hin the Precinct 11 development to cater for the projected acres.
s Station is planned to serve the gas requirements for the
lix 1)

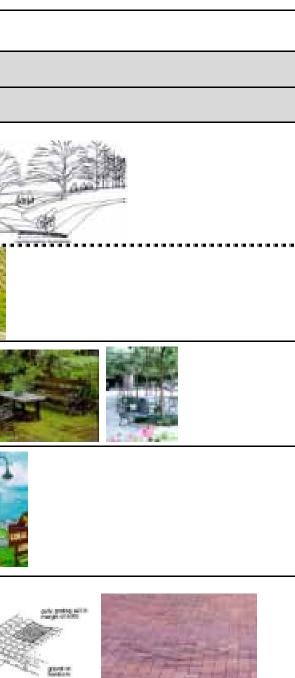
PLANNING REQUIREME	ENTS : INFRASTRUCTURE
UTIL	LITIES
<ul> <li>(vii) Waste Disposal</li> <li>Solid waste management in PB5 shall address reduction, reuse, recycling and recovery, the 4 Rs of waste management.</li> <li>Solid waste is proposed to be separated at source, by residents or employees, into three streams: dry recycles, wel waste and rubbish (all other wastes). The dry recyclable is to be further separated at source into containers and fiber materials.</li> <li>The sensitivity of the site in terms of waste management relates to the operational requirements of Precinct 11, which require that no burial of material is undertaken during the construction phase.</li> <li>In addition to control odour nuisance to any sensitive receptors biodegradable waste cannot be left at the site for extended periods.</li> <li>The waste management shall comply with Urban Design Guidelines and Environmental Guidelines for Putrajaya.</li> <li>For high rise residential (apartment, condominium and government's quarters), individual refuse chamber center must be placed at each block. These refuse chambers must be built on ground floor / basement. Building management team would collect the refuses from refuse chamber and place it to the refuse chamber center. The estimated generation of solid waste is 5 kg/unit/day.</li> <li>For non-residential building, refuse chamber center can be built at the ground floor / basement or apart from the main building. The estimated generation of solid waste for recreation park/public transport stop station are 0.2 kg/visitor, 300L/1000m '(gross floor area) for shopping complex and 500L/1000m '(gross floor area) for restaurant.</li> <li>Access road must be constructed for the ease of mechanical collection and public use. Obstructions to any collection vehicle's access must be disallowed at all time.</li> </ul>	System, JKR (1989).

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of water supply master plan for Putrajaya.

sing and falling mains shall be planned to serve this area nt, and Design Criteria and Standards for Water Supply

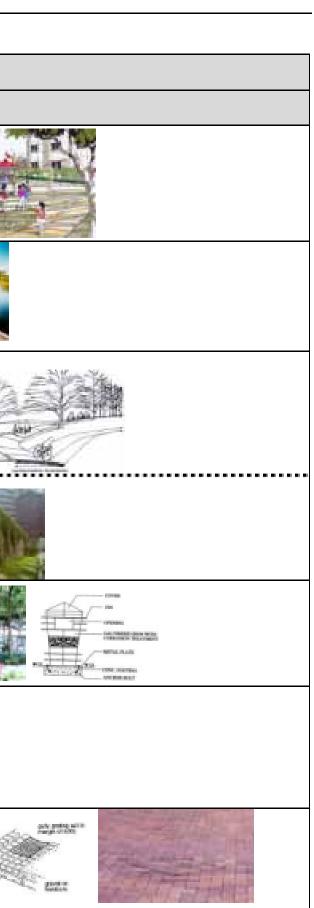
			PLANNING REQU	IREMENT : LANDSCAP	PE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Catchment Lake	<ul> <li>Paving, walls and steps         <ul> <li>Informal</li> <li>Natural</li> </ul> </li> </ul>	<ul> <li>Paving / Step         <ul> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul> </li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Max. gradient 2% for superelevation</li> <li>Durable</li> </ul>	– Open space – Plaza	
		<ul> <li>Walls</li> <li>Key stone</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul>	<ul> <li>Harmonize with surrounding</li> <li>Visually attractive</li> </ul>	– Slope areas	
	<ul> <li>Site Furniture         <ul> <li>Simple</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Stone</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	– Open space – Plaza	
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Hi-tech</li> </ul> </li> </ul>	<ul> <li>Concrete</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Bollard at entrance</li> <li>Plaza</li> <li>Road side</li> </ul>	
	<ul> <li>Drainage         <ul> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul> </li> </ul>	<ul> <li>Rock boulder</li> <li>Culvert</li> <li>Concrete</li> <li>Granite stone wall</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Natural fence if necessary</li> <li>Accessible for maintenance works</li> </ul>	<ul> <li>All drainage system</li> </ul>	And a state of the
	<ul> <li>Structures and Shelters         <ul> <li>Informal, Vernacular,</li> <li>Hi-tech</li> </ul> </li> </ul>	<ul> <li>Structures         <ul> <li>Hardwood timber</li> <li>Metal</li> <li>Concrete</li> <li>Masonry</li> </ul> </li> <li>Roof         <ul> <li>Clay tile</li> <li>Metal decking</li> <li>Poly cabonate</li> </ul> </li> </ul>	<ul> <li>Sustainable design</li> <li>Proportion to human scale and surrounding structure</li> <li>Functional</li> <li>To blend harmoniously with surrounding environment</li> </ul>	– Open areas – Plaza	





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	PLANNING REQUIREMENT : LANDSCAPE						
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION			
Catchment Lake	<ul> <li>Play feature</li> <li>Contemporary</li> <li>Robust</li> <li>Bright</li> </ul>	<ul> <li>Steel frame</li> <li>Rubber matting</li> </ul>	<ul> <li>Conform to SIRIM standard</li> </ul>	– Open space			
	<ul> <li>Planting         <ul> <li>Tropical</li> <li>informal</li> </ul> </li> </ul>	<ul> <li>Trees</li> <li>Palms</li> <li>Shrubs</li> <li>Ground covers</li> </ul>	<ul> <li>Flowering shrubs</li> <li>Tropical species</li> <li>Low maintenance</li> </ul>	– All green area			
<ul> <li>Office, Market and Putrajaya Service Centre</li> </ul>	<ul> <li>Paving / Step, Wall</li> <li>Formal</li> <li>Geometric</li> </ul>	<ul> <li>Paving/Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul>	<ul> <li>Anti-Slippery surface</li> <li>Max. gradient 8%</li> <li>Durable</li> </ul>	– Plaza			
		<ul> <li>Wall</li> <li>Key stone</li> <li>Facing brick finish</li> <li>Concrete finish etc.</li> </ul>	<ul> <li>Harmonize with surrounding structures</li> </ul>	– Slope areas			
	<ul> <li>Site Furniture</li> <li>Contemporary</li> <li>Hi-tech</li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	– Pocket space – Plaza – Roadside			
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Hi-tech</li> </ul> </li> </ul>	<ul> <li>Concrete</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Bollard at pedestrian entrance</li> <li>Plaza</li> <li>Roadside</li> </ul>			
	<ul> <li>Drainage</li> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Harmonize with surrounding design</li> </ul>	– Plaza – Open space	ALTERNATION AND AND AND AND AND AND AND AND AND AN		
	<ul> <li>Irrigation Strategy</li> </ul>	Tap from storage tank, trucking	or JBA main	1	1		



	PLANNING REQUIREMENT : LANDSCAPE					
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION		
<ul> <li>Office, Market, and Putrajaya Service Centre</li> </ul>	<ul> <li>Structures and Shelter         <ul> <li>Informal</li> <li>Vernacular</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Concrete</li> <li>Masonry</li> <li>Metal</li> </ul>	<ul> <li>To blend harmoniously with surrounding structure</li> <li>Durable</li> <li>Functional</li> </ul>	– Plaza – Open space		
	<ul> <li>Fences, Gate and Berries</li> <li>Contemporary</li> <li>Formal</li> <li>Informal</li> </ul>	<ul> <li>Engraved stone</li> <li>Metal</li> </ul>	<ul> <li>To suit architectural design</li> <li>To blend naturally with surrounding environment</li> <li>To follow Fencing Design Guideline Putrajaya</li> </ul>	<ul> <li>Entrance</li> <li>Boundary demarcation</li> </ul>		
	<ul> <li>Water features</li> <li>Contemporary</li> <li>Formal</li> <li>Hi-tech</li> </ul>	– Stone – Concrete – Metal	<ul><li>Safe</li><li>Attractive</li><li>Clean</li></ul>	<ul><li>Entrance</li><li>Plaza</li><li>Open space</li></ul>		
<ul> <li>Residential (Condominium, Government apartment)</li> </ul>	<ul> <li>Paving / Step, Wall</li> <li>Formal</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Interlocking block etc</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max-gradient of 8%</li> <li>Durable</li> </ul>	– Open space – Walkway		
		<ul> <li>Wall</li> <li>Keystone</li> <li>Facing Brick</li> <li>Concrete etc.</li> </ul>	<ul> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas		
	<ul> <li>Site Furniture         <ul> <li>Contemporary</li> <li>Elegant formal</li> <li>Specific design for neighbourhood</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Metal</li> <li>Concrete</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Functional</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Resting areas</li> </ul>		
	<ul> <li>Lighting         <ul> <li>Contemporary</li> <li>Elegant formal</li> <li>Specific design for neighbourhood</li> </ul> </li> </ul>	<ul> <li>Concrete</li> <li>Metal</li> <li>Masonry</li> </ul>	<ul> <li>Max. height 4m at open areas</li> <li>Max. height 10m at roadside</li> </ul>	<ul> <li>Open space</li> <li>Entrance with bollard</li> <li>Roadside</li> </ul>		

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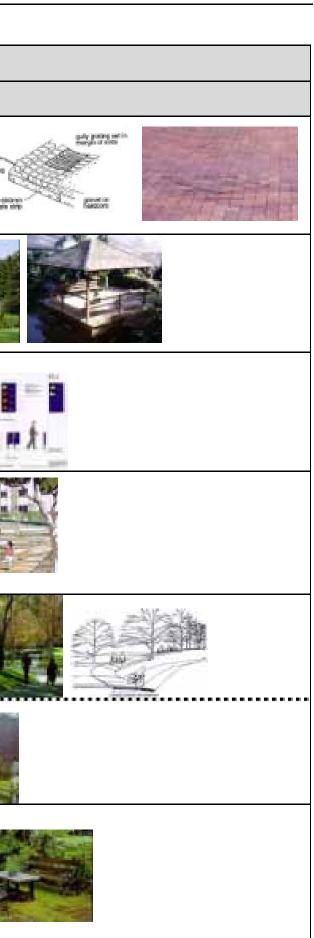








			PLANNING REQU	JIREMENT : LANDSCAF	ΡE
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
<ul> <li>Residential (Condominium, Government apartment)</li> </ul>	<ul> <li>Drainage</li> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>To Harmonize with surrounding environment</li> </ul>	<ul> <li>Where necessary</li> </ul>	Ministration of the second sec
	<ul> <li>Structures and Shelter         <ul> <li>Informal</li> <li>Vernacular</li> </ul> </li> </ul>	<ul> <li>Hardwood</li> <li>Concrete</li> <li>Monsonary</li> <li>Metal</li> </ul>	<ul> <li>To blend harmoniously with surrounding structure</li> <li>Durable</li> <li>Safe</li> </ul>	– Open space	
	<ul> <li>Signage         <ul> <li>Contemporary</li> <li>Formal</li> <li>Informal</li> </ul> </li> </ul>	– Metal – Hardwood – Masonry	<ul> <li>To follow Signage and Advertisement Design Guideline, PJC</li> </ul>	<ul> <li>Entrance</li> <li>Open space</li> <li>Pedestrian walkway</li> </ul>	
	<ul> <li>Play feature         <ul> <li>Integrated</li> <li>Bright colour</li> </ul> </li> </ul>	<ul> <li>Metal</li> <li>Rubber matting</li> <li>Plastic</li> </ul>	<ul> <li>Conform to SIRIM standard</li> <li>Safe</li> <li>Attractive</li> <li>Durable</li> </ul>	– Open space	
Open space	<ul> <li>Paving, walls and steps</li> <li>Informal and contemporary</li> <li>Informal and natural</li> <li>Robust</li> </ul>	<ul> <li>Paving / Step</li> <li>Clay brick</li> <li>Concrete</li> <li>Grasscreate etc</li> </ul>	<ul> <li>Anti slippery surface</li> <li>Max. gradient 8%</li> <li>Durable</li> <li>Accessible for disable</li> </ul>	– Open space – Plaza – Roadside	
		<ul> <li>Wall         <ul> <li>Key stone</li> <li>Facing brick</li> <li>Concrete</li> <li>Granite stone etc.</li> </ul> </li> </ul>	<ul> <li>Visually attractive</li> <li>Harmonize with surrounding environment</li> </ul>	– Slope areas	
	<ul> <li>Site Furniture</li> <li>Robust</li> <li>Contemporary</li> <li>Decorative</li> </ul>	<ul> <li>Hardwood timber</li> <li>Concrete</li> <li>Metal</li> </ul>	<ul> <li>Vandalism proof</li> <li>Durable</li> <li>Safe</li> </ul>	<ul> <li>Open space</li> <li>Plaza</li> <li>Roadside</li> </ul>	



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			PLANNING REQU	JIREMENT : LANDSCAF	ΡΕ
LANDUSE	DESIGN STYLE	MATERIALS	GENERAL REQUIREMENT	USE/LOCATION	
Open space	<ul> <li>Drainage</li> <li>Swales/Natural drain</li> <li>Concealed drains</li> </ul>	<ul> <li>Culvert</li> <li>Concrete</li> <li>Drain cover on walkway to follow walkway 's material</li> </ul>	<ul> <li>Visually attractive</li> <li>Naturally blend with surrounding</li> </ul>	– Open space – plaza	The state is a subject of the state is a sub
	<ul> <li>Structures and Shelters</li> <li>Contemporary</li> <li>Simple</li> <li>Informal</li> </ul>	<ul> <li>Timber</li> <li>Concrete</li> <li>Metal</li> </ul>	<ul> <li>Sustainable design</li> <li>Proportion to surrounding scale</li> <li>Durable</li> </ul>	– Open space – Plaza	
	<ul> <li>Play feature</li> <li>Robust</li> <li>Colorful</li> <li>Safe</li> </ul>	<ul> <li>Timber</li> <li>Rubber matting</li> <li>Metal</li> </ul>	<ul> <li>Conform to SIRIM standard</li> <li>Safe</li> <li>Attractive</li> </ul>	– Open space – Plaza	
	<ul> <li>Sport feature</li> <li>Robust</li> <li>Colorful</li> <li>Safe</li> </ul>	<ul> <li>Timber</li> <li>Rubber matting</li> <li>Concrete</li> </ul>	– Durable – Safe	– Open space	
	<ul> <li>Signage</li> <li>Contemporary</li> <li>Formal</li> </ul>	– Masonry – Metal	<ul> <li>As per Signage and Advertisement Design Guideline, PJC</li> </ul>	<ul> <li>Entrance</li> <li>Junction</li> <li>Pedestrian</li> <li>Sport areas</li> </ul>	
	<ul> <li>Water feature         <ul> <li>Naturalistic</li> <li>Contemporary</li> </ul> </li> </ul>	<ul> <li>Rock, Natural</li> <li>Tile finish</li> <li>Metal sculpture</li> <li>Concrete sculpture</li> </ul>	– Safe – Attractive	<ul> <li>Entrance</li> <li>Open space</li> <li>Plaza</li> </ul>	
	<ul> <li>Irrigation Strategy</li> </ul>	Pipe reticulation from PHB and/	or trucking		
□ Buffer	<ul> <li>Planting         <ul> <li>Natural</li> <li>Informal</li> </ul> </li> </ul>	<ul> <li>Palm</li> <li>Shrub</li> <li>Forest species</li> <li>Medium trees</li> </ul>	<ul> <li>Able to Screen</li> <li>Safe</li> <li>Attractive</li> </ul>	<ul> <li>Along Roadside</li> <li>Public utilities boundary</li> <li>Between TNB- Turbine area and Housing area</li> </ul>	



Putrajaya Precinct 11 Local Pla

				PLANNING REQUIREMENT : URBAN DESIGN	
	LAYOUT PLAN	BUILDING CHARACTER		HEIGHT, MASSING AND BUILDING SPACES	COLOUR TEXTURE
(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x)	<ul> <li>The layout plan must demonstrate that the following elements are addressed in the design:</li> <li>Development appropriate to topographical features</li> <li>Appropriate building orientation with respect to the sun</li> <li>Appropriate pedestrian and vehicular access systems</li> <li>Site infrastructure systems are designed in a manner which enhances site development</li> <li>Illustrate the effective and efficient integration of the pedestrian, cycle and road systems</li> <li>Development is to be designed to work with site contours to avoid unnecessary cut and associated retaining structures</li> <li>Illustrate a high level of permeability between site uses within the Planning Block and with adjoining Planning Blocks</li> <li>Illustrate that the site will be developed in a logical sequence</li> <li>The layout plan should illustrate that the form of development effectively contributes to the Planning Block's sense of place and amenity with the context of Putrajaya</li> <li>Where applicable, the provisions of suraus, within apartment complexes should be a freestanding building.</li> <li>The apartment complex must include 'drop off' points for the convenience of residents.</li> <li>Maximum plinth foe apartment building is 60% of the site</li> </ul>	<ul> <li>(i) Avoid monotonous building des provide a range of housing types t different lifestyle choices, diversity marketplace and opportunity the interesting street frontage</li> <li>(ii) Ensure that buildings are designed to the topographical features of the buildings should step with steeper sit not cut substantial benches into steep</li> <li>(iii) Building design should respect the of adjoining and adjacent buildings aresidents</li> <li>(iv) Building design should interpret loca and character with new materials the energy efficient</li> <li>(v) Building facades should be design accommodate a tropical environment</li> <li>(vi) Designers should look to the innovative building materials that a maintenance intensive and environmentally efficient</li> <li>(vii) While diversity is sought in building buildings should be designed with a different and nature of the development area</li> <li>(viii) Building design should ensure goo environments for residents that different and safe environment and integrat with the streetscape and adjoinin space areas</li> <li>(x) For high rise buildings: <ul> <li>Pedestrian spaces, courts, lands recreation areas should be prominent than vehicle movement utility spaces</li> <li>Vehicle parking design and should minimise impact on a diversion areas should be prominent than vehicle movement utility spaces</li> </ul> </li> </ul>	orespect site, eg tes – do bland amenity and their al image that are gned to use of irre less more design, common he style od living to not orporate pleasant eg open scape or ent and location adjacent	<ul> <li>within these guidelines, and must comply with the UDG of Precinct 11 and 13.</li> <li>(ii) Spaces on any ground level should not directly overlook dwellings on adjacent land</li> <li>(iii) Ground floor levels must be responsive to pedestrian footpaths and continuity and flow between buildings</li> <li>(iv) Building design does not significantly reduce daylight to open space and habitable rooms in adjacent development</li> <li>(v) Roof pitch and overlay should be designed to meet local environmental requirements</li> <li>(vi) Roof overhang should be designed to minimise the impact on sight lines from adjacent buildings</li> <li>(vii) Buildings should be designed to encourage facade articulation and use of design elements that reduce building bulk and provide a pleasant street aspect. Any blank wall should be avoided.</li> <li>(xi) The design of free standing buildings, yet provide for local identity and character</li> <li>(xii) Setbacks at ground level should provide for: <ul> <li>Connection between footpaths and public spaces</li> <li>Space for convenient and comfortable movement of pedestrians</li> <li>Standing areas bus stops, taxi ranks and display windows</li> <li>Queuing of patrons for entertainment facilities</li> <li>Street gradient</li> </ul> </li> </ul>	<ul> <li>(i) Building colours should harmonise with predominant colours of the surrounding are</li> <li>(ii) Use of earth tones shall be encouraged</li> <li>(iii) Colours for specific building types will subject to the approval of the Perbadana Pastel colours are to be encouraged</li> <li>(iv) The use of glass as building material m not be more than 50% of the total area of façade</li> <li>(v) Use of sun-shading device to be encouraged to reduce glave</li> </ul>

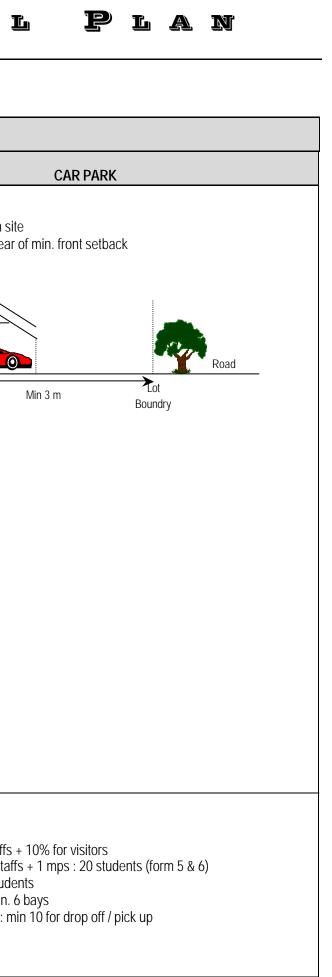
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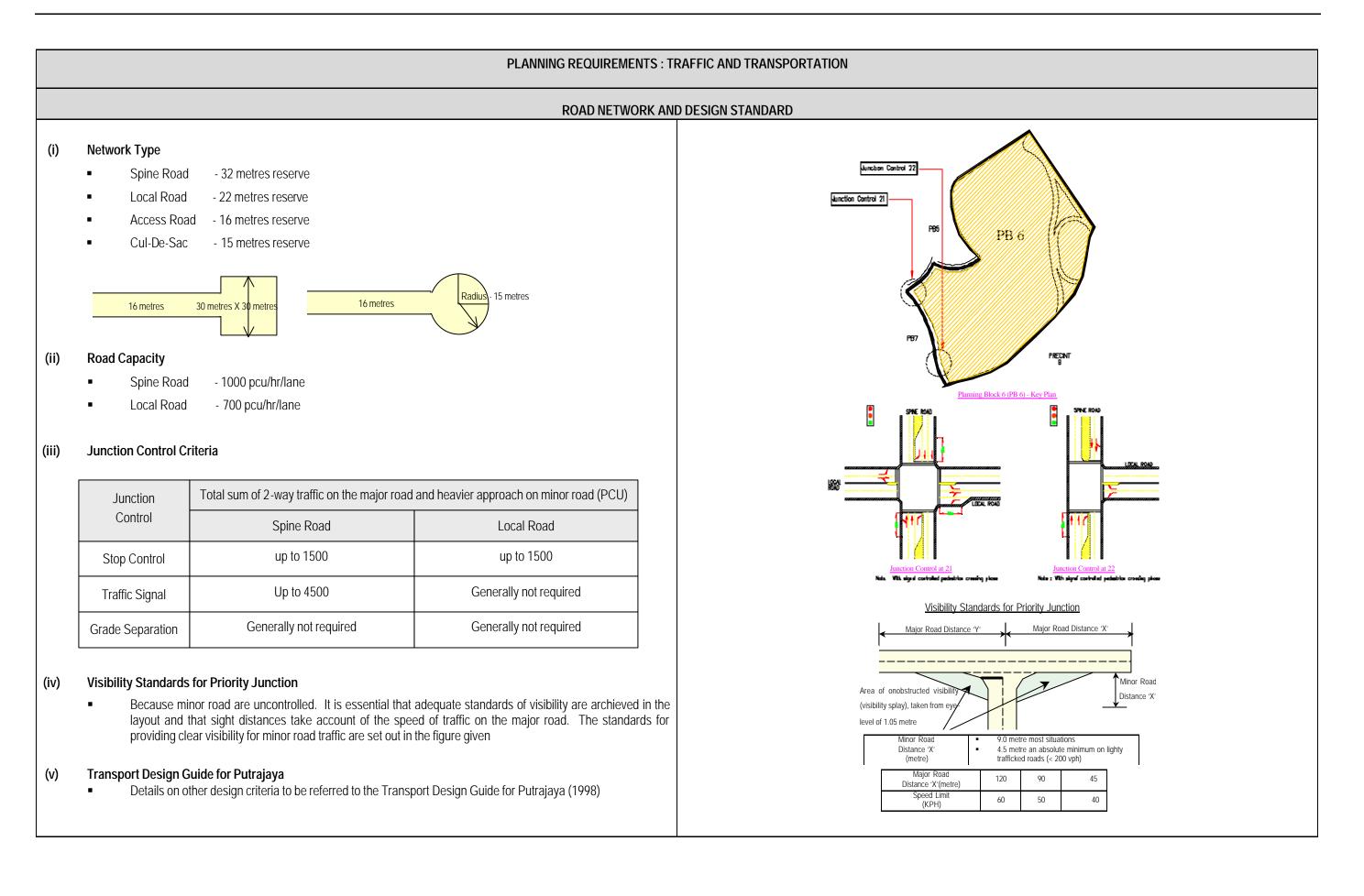
		MISCELLANEOUS
the area	(i)	Privacy and visual controls – overlooking to be controlled by appropriate orientation of windows and use of splay windows
l be nan. must	(ii)	Air conditioning equipment including piping – all equipment should be contained in compartments that are designed as an integral component of the building to ensure the equipment is hidden from view
of the aged	(iii)	Drying yards – building design should incorporate appropriate design for drying areas that allows for natural ventilation and light while ensuring they are hidden from public view
	(iv)	Aerials and satellite dishes – in high rise buildings or multiple tenancy commercial buildings, a central reception system is to be incorporated in to the building design. On all other buildings, aerials and satellite dishes shall be located to avoid adverse impact on the amenity of adjoining buildings
	(v)	Service ducting shall not be exposed on the external surfaces of buildings
	(vi)	Carports and garages should:
	•	Be designed to integrate with the design of associated buildings Not diminish the attractiveness of the streetscape Not visually dominate views of the house from the street Cover the full length of a car
	(vii)	Dwellings with green frontage must address that frontage with habitable spaces and not service areas only
	(viii)	Dwelling design must provide sufficient outdoor open space that can act as an extension of the dwelling for relaxation, entertainment, recreation and children's play purposes

	PLANNING REQUIREMENT : URBAN DESIGN								
LAYOUT PLAN	BUILDING CHARACTER	HEIGHT, MASSING AND BUILDING SPACES	COLOUR TEXTURE	MISCELLANEOUS					
LAYOUT PLAN	<ul> <li>(vi) Building and landscape design in the town centre should reinforce Putrajaya's tropical character</li> <li>(vii) Building fenestration should be used to: <ul> <li>Shade buildings</li> <li>Reduce glare</li> <li>Assist in maintaining comfortable indoor temperatures</li> <li>Minimise cooling loads</li> <li>Conserve energy</li> <li>Enrich the tropical character</li> <li>Provide texture to building facades</li> </ul> </li> <li>(viii) The architectural treatment of facades and elevations avoids large blank walls – sheer walls will not be supported by PPj</li> <li>(ix) The use of glass shall not be more than 50% of the total fascade surface area. The use of glass on building fascade shall be accompanied by the use of sun-shading device to reduce glare</li> <li>(x) Important vistas to, from and through the centre are maintained and enhanced</li> <li>(xi) Pedestrian places: <ul> <li>Are designed and constructed to reinforce the character of the town centre</li> <li>Provide safe, convenient and comfortable movement for pedestrians</li> </ul> </li> </ul>	HEIGHT, MASSING AND BUILDING SPACES		<ul> <li>No building should incorporate reflective glass surfaces that could create undue nuisance, discomfort or hazard to any part of the town centre or surrounding locality</li> <li>(x) The design of town centre buildings should have strong regard for:</li> <li>The tropical nature of the environment and the opportunity for outdoor living and activities</li> <li>The impact of the sun and associated shadows – shaded areas should be designed for use around lunch times and onwards</li> <li>The effects of wind and rain need to be accommodated in the design of the buildings in Putrajaya (Department of Urban Services, Putrajaya)</li> <li>(xi) Any changes to the façade and design of buildings must seek planning permission for Perbadanan Putrajaya.</li> </ul>					
	<ul> <li>and cyclists</li> <li>Enhance vistas and streetscapes</li> <li>Can accommodate outdoor dining providing pedestrian flow is not impeded</li> <li>Provide safe access to public transport and parking facilities</li> <li>(xii) Signage and Advertisement to abide by the 'Signage and Advertisement Design Guidelines' for Putrajaya (SADG)'</li> </ul>								

## PHYSICAL PLANNING REQUIREMENTS PLANNING BLOCK 6 (PB 6)

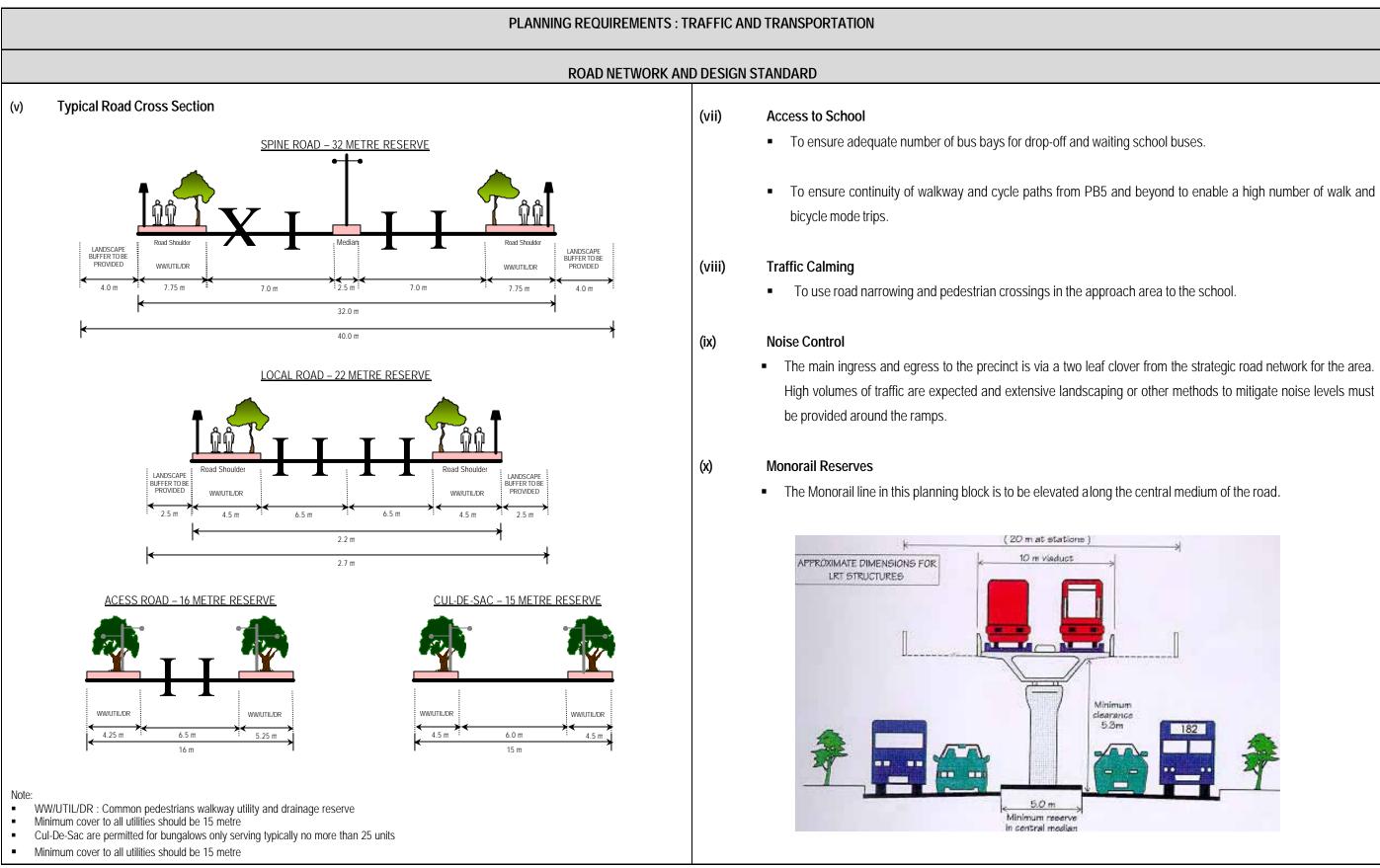
	MAIN LAND USES:		PLANNING REQUIR		r : Building
	KEY PROVISION		BUILDING SETBACKS		
A. (i) (ii) (iii) (iv) (v) (vi) (vii)	Residential         Permitted Types         • Terrace         Density         • Maximum 50 unit per ha         Composition         • 80% for government use         Minimum Lot Size         • 130 m2         Height         • Maximum 3 levels         Fencing         • As per the Fencing Design Guidelines Manual, Volume 2, Chapter 3, page 52         Layout Plan         • Use the setback flexibility and building design variation to break up and vary the position of the houses.	(i) (ii) (iii) (iv)	Front / Rear Setback 9. Street frontage – Minimum 3 metres 9. Rear setback – Minimum 3 metres 9. Rear setback – Minimum 3 metres 9. This variation in setback is only permissable within a single block of terraces and not for individual buildings. 9. Stide setback to 15 metres road, for roads with 3 metres green buffer 9. Stide setback to 15 metres road, for roads with 3 metres green buffer 9. Stide setback to 15 metres road, without 3 metres buffer 9. Minimum 4 metres 9. Minimum 4 metres 9. Minimum 4 metres 9. Property Line 9. Or property Line 9. Property	(ii)	Car Park • Min. 2 cps on site • CPS to be clear
В.	School Complex			(i)	Car Park School Complex
(i)	Height of Building  Maximum 4 storey	(i)	<ul> <li>Setback</li> <li>Setback from access road – 12m (min)</li> <li>Rear setback – Minimum 6 metres</li> <li>Side Setback – Minimum 6 metres</li> </ul>		<ul> <li>1 cps : 8 staffs +</li> <li>1 mps : 10 staffs</li> <li>1 BR : 50 studer</li> <li>Bus bay : min. 6</li> <li>Car lay-bye : mi</li> </ul>
(ii)	<ul> <li>Fencing</li> <li>As per Fencing Design Guidelines Manual, Vol 2, Chapter 11</li> </ul>				



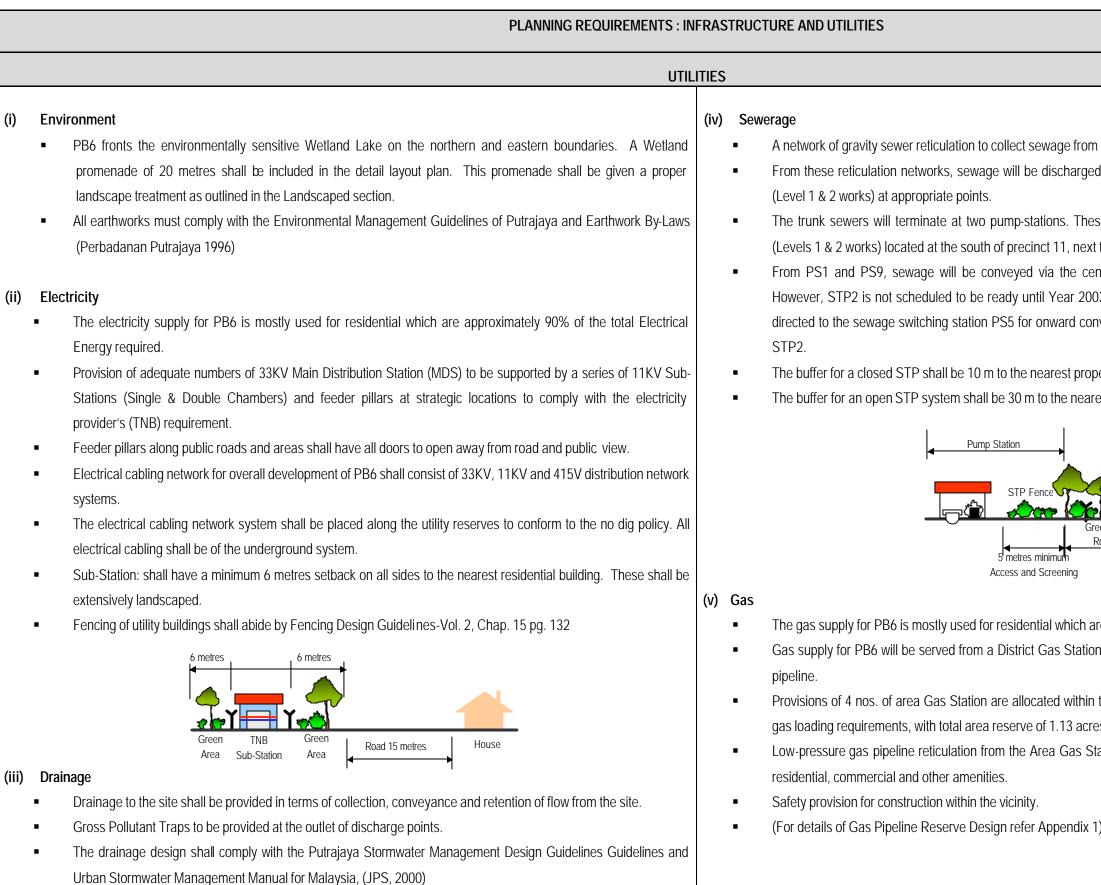








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and waiting so	chool bus	es.			



l Plan
rom the precinct. (Level 3 works.) ged into the centralized trunk sewer system of Putrajaya
hese two pump stations are PS1 in Precinct 9 and PS9 ext to Road R3. centralized trunk sewer system to STP2 for treatment. 2003. In the interim, sewage discharge will be temporary conveyance to STP1 for treatment until the completion of
roperty boundary earest property boundary
Green Area / Buffer Road 10 metres
h are approximately 80% of the total gas requirements. Ition located at Precinct 9 through a medium pressure gas
hin the Precinct 11 development to cater for the projected acres. Station is planned to serve the gas requirements for the
ix 1)

## PLANNING REQUIREMENTS : INFRASTRUCTURE AND UTILITIES

UTILITIES							
<ul> <li>(vi) Waste Disposal</li> <li>Solid waste management in PB6 shall address reduction, reuse, recycling and recovery, the 4 R's of waste management.</li> <li>Solid waste is proposed to be separated at source, by residents or employees, into three streams; dry recycles, wet waste and rubbish (all other wastes). The dry recyclable is to be further separated at source into containers and fiber materials.</li> <li>The sensitivity of the site in terms of waste management relates to the operational requirements of Precinct 11, which require that no burial of material is undertaken during the construction phase.</li> <li>In addition to control odour nuisance to any sensitive receptors biodegradable waste cannot be left at the site for extended periods.</li> <li>The waste management shall comply with Urban Design Guidelines and Environmental Guidelines for Putrajaya.</li> <li>For low rise residential, refuse chamber is to be placed in front of the house, either left or right of the driveway and near to main road for the ease of mechanical collection. The estimated generation of solid waste is 5kg/unit/day.</li> <li>For non-residential building, refuse chamber center can be built at the ground floor / basement or apart from the main building. The estimated generation of solid waste for recreation park/public transport stop station are 0.2 kg/visitor, 300L/1000m²(gross floor area) for shopping complex and 500L/1000m²(gross floor area) for restaurant.</li> <li>Access road must be constructed for the ease of mechanical collection and public use. Obstructions to any collection vehicle's access must be disallowed at al time.</li> </ul>	<ul> <li>Storage reservoir and pumping station together with the rising a in compliance with Jabatan Bekalan Air (JBA) requirement, an System, JKR (1989).</li> </ul>						

L	P	L	A	N	
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of water supply master plan for Putrajaya.

sing and falling mains shall be planned to serve this area nt, and Design Criteria and Standards for Water Supply