ELECTRONIC SUBMISSION STANDARD ESS2-APPENDIXAIII

Version 4.0

Layering and Colouring Scheme

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1. Common Rules for Preparing the AutoCAD Drawings

1   Planning Permission application drawings like Layout Plan, Pre-comp Plan and Site Plan must be saved in DXF Format - recommended in AutoCAD Map 3D 2008, DXF Format and below.

2   Applicants should make sure that boundaries of all polygons are properly closed but will not create the closed polylines or polygons in the boundary layer itself. or polygons should be created in 'parcel_poly' or 'parcel_hatch' layer only.

3   Applicants are fully responsible for accuracy of the information and will also make sure that information given in these plans are in sync with the alphanumeric data recorded through the application software provided for submission.

4   All the measurements are to be indicated in meters (Metric System).

5   While preparing the AutoCAD drawings, only the following types of elements can be used:

      i)   Point, line, polyline, single text, arc, circle or symbol
      ii)   Complex objects must not be used in AutoCAD drawing. The polyline will consist of only lines and not other types of elements such as arc. No External references should be made in AutoCAD drawing.

6   Putrajaya Grid system of projection will be used for mapping.

7   All the drawings/plans must use (400000, 315000) as the lower left and (420000, 335000) as the upper right co-ordinates. All drawings must use real world Cartesian co-ordinates as per Putrajaya Grid system and should be within the co-ordinates specified above.

8   All specified objects must be break/create node/intersect at the precinct boundary.

9   The elements that are completely inside the submission boundary should be structured according to the layers given in the respective section. All elements outside the submission boundary (for reference purpose only) should be shifted to 'outside_bound' layer for easy transfer to database. The elements in 'outside_bound' layer may include location plan, legend, roads outside the submission boundary, lots references outside the submission boundary etc.

10   If same type of elements/objects crosses each other, the elements must be break/create node at the intersection point.

11   For graphic text, use a single line text. Do not use multi-line text.

12   For graphic text the following should be adopted:

      i)   Font Type   -   Arial
      ii)   Font Size   -   As per the specific element (Size has been specified for each element)
      iii)   All text in the drawings should be Left Bottom justification

2. Drawing Preparations for Layout Plan Submission

The following plans should be prepared for submission of the Layout Plan Application.

2.1 Layout Plan

Follow the layering structure below while preparing the Layout Plan. The size of each type of text element is specified in "Element Type" column.

No.	Feature name	Layer Name	Element Type	Colour
1	Lot boundary readings (bearings & distance, arrow line (if any))	Lot_bound_rdg	Text (3.5), Line	White (255)
2	Lot number (PT number)	Lot_no	Text (20)	White (255)
3	Precinct boundary	Preci_bound	Line	Blue (180)
4	Precinct boundary readings (bearings & distance, arrow line (if any))	Preci_bound_rdg	Text (3.5), Line	Blue (180)
5	Lot text area	Lot_Area	Text (15)	White (255)
6	Layout submission boundary	Submn_poly	Polygon	Red (20)
7	Sub parcel land use boundary	Sub_parcel_poly	Polygon	Cyan (132)
8	Sub parcel land use hatch	Sub_parcel_hatch	Hatch	Refer to land use colours
9	Sub parcel number	Sub_parcel_no	Text (15)	Cyan (132)
10	Building outline (if any)	Bldg_outline	Polygon	Red (22)
11	Building setback	Bldg_setback	Polygon	Red (14)
12	Platform level	Platform_level	Text (3.5)	White (7)
13	Planning control text • Free standing building / non landed property / service industry / commercial controls / building setback (No. of units, no. of storey, GFA, plot ratio, set back etc) • Dimensions • Building offset • Road width Planning control symbol • Access to parcel • Bus stop • Etc	Planng_ctl	Text (3.5)	White (7)
14	Legend • Key plan • Location plan • Legend and table	Legend	Line, Arc, Text, Hatch	Appropriate colours

No.	Feature name	Layer Name	Element Type	Colour
15	Elements outside the boundary • Title block space for endorsement • Co-ordinates readings (Putrajaya co-ordinates) • Surrounding lot (Cadastral lot / approved pre-comp) • Lot boundaries • Lot number • Lot boundary readings • Existing contour • Others	Out_bound	Line, Arc, Text	Appropriate colours

The following points should be taken into account while preparing the Layout Plan:

1   Elements related to lots should be transferred to their respective layers.

2   Lot boundary should be placed in the "Sub parcel poly" layer.

3   Bearing and distance reading text for lot lines should be break/create node into two and stated within a tolerance of 5m from the middle point of the line in the layer 'Lot_bound_rdg'.

4   Bearing text in the form 120° 25'22" should be placed above or to the left of the line. Where ° is degree, ' is minute and " is the second symbol. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

5   Distance text in the form xxxxxxx.xxxxx should be placed below or to the right of the line. The measurement unit is in metre and may be placed optionally next to the distance text. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

6   In cases where the edge is too short to place the text, a leader line (or a non closed polyline) can be placed originating from the middle point of the line. The Bearings and distance text can be placed at the other end of the leader line within a tolerance of 5m and following the rules as above. This leader line should be placed in the layer 'Lot_bound_rdg'

7   The lot numbers should be placed in the 'Lot_no' layer and within the respective lot boundaries.

8   Precinct boundary should be created in the 'Preci_bound' layer.

9   Bearing and distance for Precinct boundary lines should be placed in the same manner as in item 3, 4, 5 and 6 in layer 'Preci_bound_rdg'.

10   A precinct number(e.g. P09-for precinct 9) should be placed in the 'Preci_no' layer and should be within the precinct boundaries.

11   Area text should be place in "Lot_Area" layer. Orientation of text is adjustable.

12   Create layout submission boundary as a polygon in 'Submn_poly' layer.

13   Sub parcel land use boundary should be placed in the "Sub_parcel_poly" layer as a polygon.

14   Land use parcel polygon (hatch) should be created in the 'Sub_parcel_hatch' layer. Thus this layer will consist of polygons representing the detailed land usage of the sub parcel. For colour fill of hatch please refer to colour scheme in this appendix. The hatch pattern should be solid.

15   Sub parcel number should be placed in the 'Sub_parcel_no' layer and placement of text should be within sub parcel land use boundary.

16   Proposed lot boundary (new subdivision) should be created as polygon in the 'Prp_lot_poly' layer.

17   Building outlines (if any) should be placed in 'Bldg_outline' layer as polygon.

18   Building number ((if any) unique within the sub parcel)) for each building (if any) should be created in the "Out_bound" layer and should be placed within the respective building outlines. For terrace, semi-detached and town houses, each unit will be assigned a building no. For bungalow houses each unit will be assigned a building no while for freestanding buildings, one number per parcel will be assigned.

19   Building setback should be placed in the 'Bldg_setback' layer. These lines should be created for bungalow houses and freestanding buildings. Building setback should be created as polygon.

20   Text for Platform Level should be placed in layer 'Platformlevel'.

21   For other texts such as No. of units, no. of storey, GFA, plot ratio, Dimensions, building offset, road width, symbol placement, place the symbol outlineetc should be placed in the same layer 'Planng_ctl_'.

22   Key plan, location plan ,legend and table should be placed in layer "Legend".

23   All other elements outside the layout submission boundary should be placed in the 'Out_bound' layer or new layers starting with 'Out_' can be created for necessary elements if required

Additional points should be taken into account:

1   Road polygon should be break whenever there is a change in the road category or road name. If the road is break/create node into more than one segment, each segment must be assigned a proper sub parcel number.

2   Starting point of text for all features must be within the respective polygon boundaries and should be placed in the respective layers.

3   For colour of various components, please refer to 'Land Use Colour for Layout Plan and Site Plan' section later in this appendix.

2.2   Other Supporting Plans

All the supporting plans must be prepared following the layer structure as outlined in the section 'Supporting Plans Structure'. For colouring scheme of these plans, please refer to 'Element Code and Colour for Supporting Plans' later in this appendix.

3. Drawing Preparations for Pre-Comp Plan Submission

The following plans should be prepared before submitting the Pre-Comp Plan Application.

3.1 Pre-Comp Plan

Follow the layering structure below while preparing the Pre-Comp Plan. The size of each type of text element is specified in "Element Type" column.

No.	Feature name	Layer Name	Element Type	Colour
1	Precinct boundary	Preci_bound	Line	Magenta (220)
2	Precinct boundary readings (bearings & distance, arrow line (if any))	Preci_bound_rdg	Text (3.5), Line	Magenta (220
3	Pre-comp submission boundary	Submn_poly	Polygon	Red (20)
4	Lot boundary (new subdivision)	Lot_bound	Line	White (7)
5	Lot boundary readings (bearings & distance, arrow line (if any))	Lot_bound_rdg	Text (2.5)	White (7)
6	Lot area text	Lot_area	Text	White (7)
7	• Connection line • Leading arrow line for connection line readings. • Connection line readings (bearings & distance)	Connectline	Line, Text (2.5)	Green (80)
8	• Text • Landuse description • Coordinates • Dimensions	Precomp_txt	Text (3.5)	White (7)
9	• Key plan • Location plan • Legend and table	Legend	Line, Arc, Text, Hatch	Appropriate colours
10	• Elements outside the boundary • Title block • Space for endorsement • Co-ordinates reading (Putrajaya co-ordinates) • Surrounding lots (Cadastral lot / approved pre-comp) • Lot boundaries • Lot number Lot boundary readings Others	Out_bound	Line, Arc, Text	Appropriate colours

The following points should be taken into account while preparing the Pre-comp plan:

1   Precinct boundary should be created in the 'Preci_bound' layer.

2   Bearings and distance readings for respective precinct boundary lines should be stated within a tolerance of 5m from the middle point of the line in the layer 'Preci_bound_rdg'.

3   Bearings text in the form 120° 25'22" should be placed above or to the left of the line. Where ° is degree, ' is minute and " is the second symbol. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

4   Distance text in the form xxxxxxx.xxxxx should be placed below or to the right of the line. The measurement unit is in metre and may be placed optionally next to the distance text. Orientation of text is adjustable but part of the text be within a tolerance stated above.

5   In cases where the edge is too short to place the text, a leader line (or a non closed polyline) can be placed originating from the middle point of the line. The Bearings and distance text can be placed at the other end of the leader line within a tolerance of 5m and following the rules as above. This leader line should be placed in the layer 'Preci_bound_rdg'.

6   Bearings and distance text for an edge must be closer to the middle point of the edge that it belongs to a precinct number (e.g. P09-for Precinct 9) should be placed in the 'Preci_no' layer and within precinct boundaries.

7   Create pre-comp submission boundary as polygon in the 'Submn_poly' layer.

8   Lot boundary (new subdivision) should be created in the 'Lot_bound' layer.

9   Bearings and distance readings for respective lot (new subdivision) lines should be stated within a tolerance of 5m from the middle point of the line in the layer 'Lot_bound_rdg'.

10 Bearings text in the form 120° 25'22" should be placed above or to the left of the line. Where ° is degree, ' is minute and " is the second symbol. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

11 Distance text in the form xxxxxxx.xxxxx should be placed below or to the right of the line. The measurement unit is in metre and may be placed optionally next to the distance text. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

12 In cases where the edge is too short to place the text, a leader line (or a non closed polyline) can be placed originating from the middle point of the line. The bearings and distance text can be placed at the other end of the leader line within a tolerance of 5m and following the rules as above. This leader line is placed in the layer 'Lot_bound_rdg'.

13 Area text should be place in "Lot_Area" layer. Orientation of text is adjustable.

14 Bearings and distance text for an edge must be closer to the middle point of the edge that it belongs to connection lines should be created in the layer 'Connectline'.

15 Bearings and distance readings for connection lines should be stated within a tolerance of 5m from the middle point of the line in the layer 'Connectjine'.

16 All text placements like landuse description, coordinates and dimensions should be placed in layer 'Precomp_txt'.

17 Key plan, location plan ,legend and table should be placed in layer "Legend".

18 All other elements outside the layout submission boundary should be placed in the 'Out_bound' layer or new layers starting with 'Out_' can be created for necessary elements if required

The following additional points should be taken into account:

1. Road polygons should be break whenever there is a change in the road category or road name. If the road is break/create node into more than one segment, each segment must be assigned a proper parcel number and parcel code.

2. Starting point of text for other features must be within the respective polygon boundaries and placed in the respective layers.

4. Drawing Preparations for 'Erection of a Building' Submission

The following plans should be prepared before submitting the Erection of a Building application. **4.1**

Site Plan

Follow the layering structure below while preparing the 'Erection of Building' submission. The size of each type of text element is specified in "Element Type" column. Element type 'Pline' refers to a polyline that is not closed.

No.	Feature name	Layer Name	Element Type	Colour
1	Lot boundary (pre-comp boundary)	Lot_bound	line	White (7)
2	Lot number (PT no.)	Lot_no	Text (2.5)	White (7)
3	Lot boundary reading (bearings & distance, arrow line (if any))	Lot_bound_rdg	Text (3.5), Line	White (7)
4	EB Submission boundary	Submn_poly	Polygon	Red (20)
5	Sub parcel land use	Sub_parcel_poly	Polygon	Cyan (132)
6	Sub parcel number	Sub_parcel_no	Text (6)	Cyan (132)
7	Building setback	Bldg_setback	Polygon	Red (14)
8	Building	Building_poly	Polygon	Blue (172)
9	Road/Pedesterian	Road_poly	Polygon	Blue (172)
10	Landskap	Landskap_poly	Polygon	Blue (172)
11	Parking	Parking_poly	Polygon	Blue (172)
12	Sub parcel internal land use hatch	Subp_ele_hatch	Hatch	Inner element colour
13	Sub parcel internal details	Subp_ele _inter_detl	Line, Pline,	Green (80)
14	Sub parcel building number	Subp_bldg_no	Text (6)	Blue (172)
15	Retaining wall line	Retn_wall_line	Line	Blue (180)
16	Platform level	Platform_level	Text (6)	White (7)
17	- Text - Area - Dimensions - Building offset - Road width - Internal details Text - Others	Site_plan_txt	Text (6)	White (7)
18	Planning control symbols - Access to parcel - Others	Planng_ctl_sym	Symbol (outline only)	White (7)

No.	Feature name	Layer Name	Element Type	Colour
19	Legend • Key plan • Location plan • Legend and table	Legend	Line, Arc, Text, Hatch	Appropriate colours
20	Elements outside the boundary • Title block space for endorsement • Co-ordinates reading • (Putrajaya co-ordinates) • Surrounding lots • (Cadastral lot /approved pre-comp) • Lot boundaries • Lot number • Lot boundary readings • Others	Out_bound	Text, Line	Appropriate colours

The following points should be taken into account while preparing the 'Erection of a Building' application:

1. Elements related to lots should be placed in their respective layers.

2. Lot boundary (pre-comp boundary) should be placed in the 'Lot_bound' layer.

3. The lot numbers (PT. no) should be placed in the 'Lot_no' layer and within the respective lot boundaries.

4. Bearings and distance reading text for lot lines should be break/create note into two and stated within a tolerance of 5m from the middle point of the line in the layer 'Lot_bound_rdg'.

5. Bearings text in the form 120° 25'22" should be placed above or to the left of the line. Where ° is degree, ' is minute and " is the second symbol. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

6. Distance text in the form xxxxxxx.xxxxx should be placed below or to the right of the line. The measurement unit is in metre and may be placed optionally next to the distance text. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

7. In cases where the edge is too short to place the text, a leader line (or a non closed polyline) can be placed originating from the middle point of the line. The bearings and distance text can be placed at the other end of the leader line within a tolerance of 5m and following the rules as above. This leader line is placed in the layer 'Lot_bound_rdg'.

8. Create EB Submission boundary as polygon in the 'Submn_poly' layer.

9. Building should be placed in the 'Building_poly' layer as polygon.

10. Road/Pedesterian should be placed in the 'Road_poly' layer as polygon

11. Landskap should be placed in the 'Landskap_poly' layer as polygon.

12. Parking should be placed in the 'Parking_poly' layer as polygon.

13. Sub parcel number (normally increased sequencially) should be placed in the layer 'Sub_parcel_no' and should be within the sub parcel boundary.

14. Building setback should be placed in layer 'Bldg_setback' and created as polygon.

15. Sub parcel internal land use hatch should be created in the 'Subp_ele_hatch' layer. Hatch for the sub parcel is not required.

16. The sub parcel internal details of the elements/objects (e.g. 'tennis court lines') should be placed in 'Subp_ele_inter_detl'.

17. Sub parcel building number should be placed in the 'Subp_bldg_no' layer.

18. Retaining wall line should be placed in the 'Retn_wall_line'.

19. All Platform level text should be placed in the 'Platformjevel' layer.

20. All texts e.g Area, dimensions, Building setback, road width etc should be placed in the 'Site_plan_txt' layer.

21. All Planning Symbols should be placed in the 'Planng_ctl_sym' layer.

22. Key plan, location plan and legend should be placed in their respective layer e.g 'Out_key_plan', 'Out_location_plan' and 'Outjegend'.

23. All other elements outside the layout submission boundary should be placed in the 'Out_bound' layer or new layers starting with 'Out_' can be created for necessary elements if required

The following additional points should be taken into account:

1. Road polygon should be break whenever there is a change in the road category or road name. If the road is break/create note into more than one segment, each segment must be assigned a proper parcel number and parcel code.

2. Starting point of text for all features must be within the respective polygon boundaries and placed in the respective layers.

3. Sub parcel number text for polygon must be placed in the same manner as explained in point 1. This text should be placed in the 'Sub parcel number (Sub_parcel_no)' layer.

4. For colour of various components, please refer to 'Land Use Colour for Layout Plan and Site Plan' section later in this appendix.

4.2 Other Supporting Plans

All the supporting plans (including Transportation Plan) must be prepared following the layer structure as outlined in the section 'Supporting Plans Structure'. As for colouring scheme of these plans please refer to 'Code and Colour Element for Supporting Plans' later in this appendix.

5. Drawing Preparation for 'Erection of Temporary Building' Submission

The following plans should be prepared before submitting the Erection of Temporary Building application. **5.1**

Site Plan

Follow the layering structure below while preparing the 'Erection of Temporary Building'. The size of each type of text element is specified in "Element Type" column. Element type 'Pline' refers to a polyline that is not closed.

No.	Feature name	Layer Name	Element Type	Colour
1	Lot boundary (pre-comp boundary)	Lot_bound	line	White (7)
2	Lot number (PT no.)	Lot_no	Text (2.5)	White (7)
3	Lot boundary reading (bearings & distance, arrow line (if any))	Lot_bound_rdg	Text (3.5), Line	White (7)
4	EB Submission boundary	Submn_poly	Polygon	Red (20)
5	Sub parcel land use	Sub_parcel_poly	Polygon	Cyan (132)
6	Sub parcel number	Sub_parcel_no	Text (6)	Cyan (132)
7	Building setback	Bldg_setback	Polygon	Red (14)
8	Building	Building_poly	Polygon	Blue (172)
9	Road/Pedesterian	Road_poly	Polygon	Blue (172)
10	Landskap	Landskap_poly	Polygon	Blue (172)
11	Parking	Parking_poly	Polygon	Blue (172)
12	Sub parcel internal land use hatch	Subp_ele_hatch	Hatch	Inner element colour
13	Sub parcel internal details	Subp_ele _inter_detl	Line, Pline,	Green (80)
14	Sub parcel building number	Subp_bldg_no	Text (6)	Blue (172)
15	Retaining wall line	Retn_wall_line	Line	Blue (180)
16	Platform level	Platform_level	Text (6)	White (7)
17	• Text • Area • Dimensions • Building offset • Road width • Internal details Text • Others	Site_plan_txt	Text (6)	White (7)
18	Planning control symbols • Access to parcel • Others	Planng_ctl_sym	Symbol (outline only)	White (7)

No.	Feature name	Layer Name	Element Type	Colour
19	Legend • Key plan • Location plan • Legend and table	Legend	Line, Arc, Text, Hatch	Appropriate colours
20	Elements outside the boundary • Title block space for endorsement • Co-ordinates reading • (Putrajaya co-ordinates) • Surrounding lots • (Cadastral lot /approved pre-comp) • Lot boundaries • Lot number • Lot boundary readings • Others	Out_bound	Text, Line	Appropriate colours

The following points should be taken into account while preparing the 'Erection of a Building' application:

1. Elements related to lots should be placed in their respective layers.

2. Lot boundary (pre-comp boundary) should be placed in the 'Lot_bound' layer.

3. The lot numbers (PT. no) should be placed in the 'Lot_no' layer and within the respective lot boundaries.

4. Bearings and distance reading text for lot lines should be break/create note into two and stated within a tolerance of 5m from the middle point of the line in the layer 'Lot_bound_rdg'.

5. Bearings text in the form 120° 25'22" should be placed above or to the left of the line. Where ° is degree, ' is minute and " is the second symbol. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

6. Distance text in the form xxxxxxx.xxxxx should be placed below or to the right of the line. The measurement unit is in metre and may be placed optionally next to the distance text. Orientation of text is adjustable but part of the text should be within a tolerance stated above.

7. In cases where the edge is too short to place the text, a leader line (or a non closed polyline) can be placed originating from the middle point of the line. The bearings and distance text can be placed at the other end of the leader line within a tolerance of 5m and following the rules as above. This leader line is placed in the layer 'Lot_bound_rdg'.

8. Create EB Submission boundary as polygon in the 'Submn_poly' layer.

9. Building should be placed in the 'Building_poly' layer as polygon.

10. Road/Pedesterian should be placed in the 'Road_poly' layer as polygon

11. Landskap should be placed in the 'Landskap_poly' layer as polygon

12. Parking should be placed in the 'Parking_poly' layer as polygon

13. Sub parcel number (normally increased sequencially) should be placed in the layer 'Sub_parcel_no' and should be within the sub parcel boundary.

14. Building setback should be placed in layer 'Bldg_setback' and created as polygon.

15. Sub parcel internal land use hatch should be created in the 'Subp_ele_hatch' layer. Hatch for the sub parcel is not required.

16. The sub parcel internal details of the elements/objects (e.g. 'tennis court lines') should be placed in 'Subp_ele_inter_detl'.

17. Sub parcel building number should be placed in the 'Subp_bldg_no' layer.

18. Retaining wall line should be placed in the 'Retn_wall_line'.

19. All Platform level text should be placed in the 'Platformjevel' layer.

20. All texts e.g Area, dimensions, Building setback, road width etc should be placed in the 'Site_plan_txt' layer.

21. All Planning Symbols should be placed in the 'Planng_ctl_sym' layer.

22. Key plan, location plan and legend should be placed in their respective layer e.g 'Out_key_plan', 'Out_location_plan' and 'Outjegend'.

23. All other elements outside the layout submission boundary should be placed in the 'Out_bound' layer or new layers starting with 'Out_' can be created for necessary elements if required

The following additional points should be taken into account:

1. Road polygon should be break wherever there is a change in the road category or road name. If the road is
   break/create node into more than one segment, each segment must be assigned a proper parcel number and parcel code.

2. Starting point of text for other features must be within the respective polygon boundaries and should be placed in respective the layers.

3. Placement for sub parcel number texts must be placed such that the starting point of text is within the polygon and should be placed in the 'Sub parcel number for normal polygons (Sub_nor_parcel_no)' layer.

4. For colour of various components, please refer to 'Land Use Colour for Layout Plan and Site Plan' section later in this appendix.

5.2   Other Supporting Plans

All the supporting plans (including Transportation Plan) must be prepared following the layer structure as outlined in the section 'Supporting Plans Structure' and for colouring scheme of these plans please refer to 'Element Code and Colour for Supporting Plans' later in this appendix.

6. Drawing Preparation for Supporting Plans

The following plans are required for Layout Plan, Erection of a Building, and Erection of Temporary Building submission. The Layering scheme given below should be used for the respective supporting plan. All the text must be placed within the polygon where applicable or within certain distance (within 5 units) if object is a line or a point. The codes specific to a particular plan are given in this appendix later. The text size for various supporting plan depends on types of submission. For 'Layout Plan' submission, the size of the text in all supporting plans should be 15 units and For 'Erection of Building' or 'Erection of Temporary Building' submission the size of the text in all supporting plans should be 6 units.

For 'Layout Plan' submission, the base map details layer for supporting plan should be derived from Layout Plan itself. This layer will consist of proposed lot boundaries and road outlines. This layer is only for reference during the preparation of supporting plans. However this layer should not be deleted as it will make a good reference during the various comparisons.

At the 'Erection of Building' stage, the base map details layer is the approved pre-comp. All the elements related to lot (lot boundaries, lot no, road outline) would be kept in the same layer. Again this layer is for reference purpose only.

For temporary building submission, existing pre-comp (Putrajaya pre-comp) will serve as the base layer. Here all the elements related to lot (Lot boundary, lot no, road outline etc) would be kept in the same layer. Other elements outside the submission boundary should be placed in 'Out_bound' layer or the new layers starting with 'Out_' can be created for necessary elements if required.

Element type 'Pline' refers to a polyline that is not closed. These types of lines come about by removing the pseudo-nodes (done easily during clean up operations using AutoCAD Map).

To ensure that line elements are properly connected to each other without any undershoot, overshoot or dangling objects, clean up should be perforMedium for respective elements. During this clean up the 'lines' can be converted to 'polyline' if requir

6.1 Transportation Plan

The following components will be stored in the respective layers for Transportation Plan: To represent the various categories of roads, only the centre line of the road should be created in the respective layers. To create the centre lines, first copy the road polygons from the land use plan and use AutoCAD commands to create the centre lines. The road outline, lane details, and flow direction should be created in their respective layers.

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details Express way	Base_Exp_way	Line, Pline Line, Pline	White (7) Brown (44)
3	Primary Distributor	Prim_distributor	Line, Pline	Dark cyan (134)
4	Secondary distributor	Sec_distributor	Line, Pline	Dark pink (222)
5	Local distributor	Local_distributor	Line, Pline	Medium green (84)
6	Spine road	Spine_road	Line, Pline	Medium red (240)
7	Local road	Local_road	Line, Pline	Medium yellow (52)
8	Access road	Access_road	Line, Pline	Medium cyan (133)
9	Cul-de-sacService access (EB only)	Cul_de_scSer_Acces	Line, Pline Line, Pline	Medium blue (150) Magenta (6)
10	Internal circulation (EB only) Road outlines and lane details	Inter_circul_Road details	Line, Pline Line, Pline	White (7) Yellow (2)
11	Traffic flow direction Road category code	Traffic_dirRd_cat_cd	Line Text (15,6)	Yellow (2) White (7)
12	Road name	Rd_name	Text (15,6)	White (7)
13	Road width text	Rd_width_txt	Text (15,6)	White (7)
14	Road width line Pedestrian walkway	Rd_width_line Ped_walkway	Line, Pline Line, Pline	White (7) Cyan (4)
15	Pedestrian walkway text	Ped_walway_txt	Text (15,6)	Cyan (4)
16	Cycle way	Cyc_way	Line, Pline	Blue (5)
17	Cycle way text	Cyc_way_txt	Text (15,6)	Blue (5)
18	LRT line	Lrt_line	Line, Pline	Red(1)
19	LRT text	Lrt_line_txt	Text (15,6)	Red(1)
20	Express rail link	Exp_rail_link	Line, Pline	Green (3)
21	Express rail link text	Exp_rail_link_txt	Text (15,6)	Green (3)
22	Other transport line (specify)	Oth_tr_line	Line, Pline	Orange (31)
23	Other transport line text	Oth_tr_line_txt	Text (15,6)	Orange (31)

No.	Feature name	Layer Name	Element Type	Colour
24	Transportation symbol layer	Trpt_sym_lay	Symbol	Refer colour filled symbols
25	Transportation symbol text	Trpt_sym_txt	Text (15,6)	White (7)
26	Road cross-section line	Rd_cross_line	Line, Pline	Brown (36)
27	Road cross section text	Rd_cross_txt	Text	Brown (36)
28	Elements outside the boundary • Legend • Title Block • Others	Out_bound	(15,6) Text, Line	Appropriate colours

6.2   Gas Supply

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Petronas gas pipe line (LO only)	Pet_gas_pipe_line	Line, Pline	Dark pink (222)
4	Petronas gas pipe line text (LO only)	Pet_gas_line_txt	Text	Dark pink (222)
5	Multi product pipe line (LO only)	Multi_prod_pipe_line	Line, Pline	Purple (203)
6	Multi product pipe line text (LO only)	Multi_prod_pipe_txt	Text	Purple (203)
7	Feeder pipe line	Feeder_pipe_line	Line, Pline	Dark yellow (54)
8	Feeder pipe line text	Feeder_pipe_line_txt	Text	Dark Yellow (54)
9	High distributor line	High_dist_line	Line, Pline	Medium red (240)
10	High distributor line text	High_dist_line_txt	Text	Medium red (240)
11	Medium distributor line	Medium_dist_line	Line, Pline	Medium green (84)
12	Medium distributor line text	Medium dist line txt	Text	Medium green (84)
13	Low distributor line	Low_dist_line	Line, Pline	Medium cyan (133)
14	Low distributor line text	Low_dist_line_txt	Text	Medium cyan (133)
15	Local / internal gas pipe line (EB only)	Local_gas_pile_line	Line, Pline	Blue (5)
16	Local / internal gas pipe line text (EB only)	Local_gas_pile_line_txt	Text	Blue (5)
17	Gas symbol layer	Nat_gas_sym_lay	Symbol	Refer colour filled symbols

No.	Feature name	Layer Name	Element Type	Colour
18	Gas symbol text	Nat_gas_sym_txt	Text	White (7)
19	Other gas line (specify)	Oth_gs_line	Line, Pline	White (7)
20	Other gas line text	Oth_gs_line_txt	Text	White (7)
21	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.3 Gas District Cooling

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Chilled water pipeline	Chilled_pipeline	Line, Pline	Blue (150)
4	Chilled water pipeline text	Chilled_pipeline_txt	Text	Blue (150)
5	Local / internal chilled water pipeline (EB only)	Loc_chilled_pipeline	Line, Pline	Blue (5)
6	Local / internal chilled water pipeline text (EB only)	Loc_chilled_pipeline_txt	Text	Blue (5)
7	Other GDC line (specify)	Oth_gdc_line	Line, Pline	White (7)
8	Other GDC line text	Oth_gdc_line_txt	Text	White (7)

6.4 Telecommunication

No.	Feature name	Layer Name	Element Type	Colour
1	Gas district cooling symbol layer	Cool_gas_sym_lay	Symbol	Refer colour filled symbols
2	Gas district cooling symbol text	Cool_gas_sym_txt	Text Text,	White (7)
3	Elements outside the boundary • Legend • Title block • Others	Out_bound	Line	Appropriate colours
4	Submission boundary	Submn_bound	Line, Pline	Red (20)
5	Base map details	Base	Line, Pline	White (7)
6	Fibre main route line	Fib_main_line	Line, Pline	Green (86)
7	Fibre main route line text	Fib_main_line_txt	Text	Green (86)
8	Fibre junction route line	Fibjunction_line	Line, Pline	Green (84)
9	Fibre junction route line text	Fibjunction_line_txt	Text	Green (84)

No.	Feature name	Layer Name	Element Type	Colour
10	Telephone ducting route line	Tel_duct_route_line	Line, Pline	Yellow (2)
11	Telephone ducting route text	Tel_duct_route_txt	Text	Yellow (2)
12	Local / internal cable line (EB only)	Local_cable_line	Line, Pline	Green (3)
13	Local / internal cable line Text (EB only)	Local_cable_line_txt	Text Line,	Green (3)
14	Other telecom line (specify)	Oth_telecom_line	Pline	White (7)
15	Other telecom line text	Oth_telecom_line_txt	Text	White (7)
16	Telecommunication symbol layer	Tel_sym_lay	Symbol	Refer colour filled symbols
17	Telecommunication symbol text	Tel_sym_txt	Text Text,	White (7)
18	Elements outside the boundary • Legend • Title block • Others	Outside_bound	Line	Appropriate colours

6.5 Power Supply

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Existing rentis TNB line (LO only)	Extg_trans_line	Line, Pline	Magenta (211)
4	Existing rentis TNB line text (LO only)	Extg_trans_line_txt	Text	Magenta (211)
5	132 KV cable line	132_cable_line	Line, Pline	Dark pink (222)
6	132 KV cable line text	132_cable_line_txt	Text	Dark pink (222)
7	33 KV cable line	33_cable_line	Line, Pline	Dark yellow
8	33 KV cable line text	33_cable_line_txt	Text	Dark yellow (54)
9	11 KV cable line	11_cable_line	Line, Pline	Medium pink (221)
10	11 KV cable line text	11_cable_line_txt	Text	Medium pink (221)
11	LV cable line (EB Only)	LV_cable_line	Line, Pline	Red(1)
12	LV cable line text (EB Only)	LV_cable_line_txt	Text, Line	Red(1)
13	Other power supply line (specify)	Oth_power_line	Pline	White (7)
14	Other power supply line text	Oth_power_line_txt	Text	White (7)
15	Power supply symbol layer	Pow_sym_lay	Symbol	Refer colour filled symbols

No.	Feature name	Layer Name	Element Type	Colour
16	Power supply symbol Layer text	Pow_sym_txt	Text	White (7)
17	Elements Outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.6 Sewerage (Waste Water)

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Sewer pipeline	Sew_pipe_line	Line, Pline	Brown (44)
4	Sewer pipeline text	Sew_pipe_txt	Text	Brown (44)
5	Local / internal sewer line (EB only)	Loc_sew_pipe_line	Line, Pline	Brown (44)
6	Local / internal sewer line text (EB only)	Loc_sew_pipe_txt	Text	Brown (44)
7	Sewerage flow direction	Sew_flow_dir	Line	Yellow (2)
8	Other sewerage line (specify)	Oth_sewer_line	Line, Pline	White (7)
9	Other sewerage line text	Oth_sewer_line_txt	Text	White (7)
10	Sewerage symbol layer	Sew_sym_lyr	Symbol	Refer colour filled symbols
11	Sewerage symbol text	Sew_sym_txt	Text	White (7)
12	Elements Outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.7 Solid Waste

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Collection routing line	Coll_route_line	Line, Pline	Dark magenta (214)
4	Collection routing line text	Coll_route_txt	Text	Dark magenta (214)
5	Solid waste symbol layer	Swaste_sym_lay	Symbol	Refer colour filled symbols

No.	Feature name	Layer Name	Element Type	Colour
6	Solid waste symbol layer text	Swaste_sym_txt	Text	White (7)
7	Other sewerage line (specify)	Oth_sewer_line	Line, Pline	White (7)
8	Other sewerage line text	Oth_sewer_line_txt	Text	White (7)
9	Elements Outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.8 Water Supply

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Existing twin main	Extg_twin_main	Line, Pline	Dark cyan (134)
4	Existing twin main text	Extg_twin_main_txt	Text	Dark cyan (134)
5	Diverted twin main	Divt_twin_main	Line, Pline	Dark green (86)
6	Diverted twin main text	Divt_twin_main_txt	Text	Dark green (86)
7	Trunk main	Trunk_main	Line, Pline	Medium blue (150)
8	Trunk main text	Trunk_main_txt	Text	Medium blue (150)
9	Distributor main	Distributorjnain	Line, Pline	Medium cyan (133)
10	Distributor main text	Distributor_main_txt	Text	Medium cyan (133)
11	Local / internal water supply pipeline	Water_pipe_line	Line, Pline	Blue (5)
12	(EB only) Local / internal water supply pipeline text	Water_pipe_txt	Text	Blue (5)
13	(EB only) Other water supply line (specify)	Oth_water_line	Line, Pline	White (7)
14	Other water supply line text	Oth_water_line_txt	Text	White (7)
15	Water flow direction	Wat_flow_dir	Line	Yellow (2)
16	Water supply symbol layer	Wat_sym_lay	Symbol	Refer colour filled symbols
17	Water supply symbol layer text	Wat_sym_lay_txt	Text	White (7)
18	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.9 Utility Hub

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Utility hub point	Utility_hub_sym	Symbol	Refer colour filled symbols
4	Utility hub text	Utility_hub_sym_txt	Text	White (7)
5	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.10 Common Utility Trench

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Primary common utility trench line	P_util_tren_line	Line, Pline	Dark yellow (54)
4	Primary common utility trench line text	P_util_tren_line_txt	Text	Dark yellow (54)
5	Secondary common utility trench line	S_util_tren_line	Line, Pline	Medium yellow (52)
6	Secondary common utility trench line text	S_util_tren_line_txt	Text	Medium yellow(52)
7	Tertiary common utility trench line	T_util_tren_line	Line, Pline	Yellow(2)
8	Tertiary common utility trench line text	T_util_tren_line_txt	Text	Yellow(2)
9	Common utility trench cross-section line	Util_x_cross_line	Line, Pline	Blue(5)
10	Common utility trench cross-section text	Util_x_cross_txt	Text	Blue(5)
11	Other CUT line(specify)	Oth_cut_line	Line, Pline	White(7)
12	Other CUT line text	Oth_cut_line_txt	Text	White(7)
13	Common utility trench symbol	Util_tren_sym	Symbol	Refer colour filled symbols
14	Common utility trench symbol text	Util_tren_sym_txt	Text	White (7)
15	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.11 Drainage

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Drainage catchment boundaries	Drain_catch_bound	Line, Pline	Dark pink (221)
4	Drainage catchment boundaries text	Drain_catch_txt	Text	Dark pink (221)
	Main drain			
5	Reinforce concrete pipe culvert	M_reinf_conc_pipe_cul	Line, Pline	Magenta (211)
6	Reinforce concrete box culvert	M_reinf_conc_pipe_box	Line, Pline	Dark red (242)
7	Open channel section	M_open_chan_sec	Line, Pline	Medium red (240)
8	Covered drain	M_covered_drain	Line, Pline	Red(1)
9	Main drain Text	M_drain_txt	Text	Red(1)
	Secondary drain			
10	Reinforce concrete pipe culvert	S_reinf_conc_pipe_cul	Line, Pline	Brown (44)
11	Reinforce concrete Box culvert	S_reinf_conc_pipe_box	Line, Pline	Dark green (86)
12	Open channel section	S_open_chan_sec	Line, Pline	Medium green (84)
13	Covered drain	S_covered_drain	Line, Pline	Green (3)
14	Secondary drain text	S_drain_txt	Text	Green (3)
	Tertiary drain (EB only)			
15	Reinforce concrete pipe culvert	T_reinf_conc_pipe_cul	Line, Pline	Golden (43)
16	Reinforce concrete box culvert	T_reinf_conc_pipe_box	Line, Pline	Dark yellow (54)
17	Open channel section	T_open_chan_sec	Line, Pline	Medium yellow (52)
18	Covered drain	T_covered_drain	Line, Pline	Yellow (2)
19	Tertiary drain text (EB only)	T_drain_txt	Text	Yellow (2)
20	Sub surface drain (EB only)	Sub_surface_drain	Line, Pline	Brown (36)
21	Sub surface drain text (EB only)	Sub_surface_drain_txt	Text	Brown (36)
22	Other drainage line(specify)	Oth_drainage_line	Line, Pline	White(7)
23	Other drainage line text	Oth_drainage_line_txt	Text	White(7)
24	Drainage flow direction	Drain_flow_dir	Line	Cyan (4)

No.	Feature name	Layer Name	Element Type	Colour
25	Drainage cross-section line	Drain_x_sec_line	Line, Pline	Blue (5)
26	Drainage cross-section text	Drain_x_sec_txt	Text	Blue (5)
27	Drainage symbol layer	Drain_sym_lay	Symbol	Refer colour filled symbols
28	Drainage symbol text	Drain_sym_txt	Text	White (7)
29	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.12 Landscape Conceptual Plan (Layout only)

For placement of the symbols in landscape plans, applicants should place the symbols along with symbol code as suggested in the symbol table. If applicants need to modify a symbol to represent it in different way, they can do so provided they use the suggested symbol code. If the exact symbol is not found in the table, they should use the appropriate group code and their own defined symbol.

6.12.1 Parks and Open Spaces - Soft Landscape Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Soft landscape boundaries	Soft_landsc_bnd	Line, Pline	Green (3)
4	Soft landscape Polygons	Soft_landsc_poly	Polygon	Green (3)
5	Soft landscape polygons	Soft landsc hatch	Polygon	Support plan
6	Soft landscape boundaries Text	Soft_landsc_bnd_txt	Text,	Green (3)
7	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
8	Landscape cross-section Text	Landsc_cross_txt	Text	Magenta (6)
9	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.12.2 Parks and Open Spaces - Hard Landscape Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Hard landscape boundaries	Hard landsc bnd	Line, Pline	Cyan (4)
4	Hard landscape Polygon	Hard landsc poly	Polygon	Cyan (4)
5	Hard landscape polygon	Hard landsc hatch	Polygon	Support Plan
6	Hard landscape boundaries text	Hard_landsc_bnd_txt	Text	Cyan (4)
7	Pedestrian circulation line	Pedestrian_line	Line, Pline	Brown (25)
8	Pedestrian circulation line text	Pedestrian_line_txt	Text	Brown (25)
9	Cycle circulation line	Cycleline	Line, Pline	Medium Yellow (52)
10	Cycle circulation line text	Cycleline _txt	Text	Medium Yellow (52)
11	Hard landscape symbol	Hard_landsc_sym	Symbol	Refer colour filled symbols
12	Hard landscape symbol text	Hard_landsc_sym_txt	Text	White (7)
13	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
14	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
15	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate Colours

6.12.3 Parks and Open Spaces - Landscape Lighting

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Landscape lighting line	Nightsc_line	Line, Pline	Medium pink (221)
4	Landscape lighting line text	Nightsc_line_txt	Text	Medium pink (221)
5	Landscape lighting symbol	Nightsc_sym	Symbol	Refer colour filled symbols

No.	Feature name	Layer Name	Element Type	Colour
6	Landscape lighting symbol text	Nightsc_sym_txt	Text Line,	White (7)
7	Landscape cross-section line	Landsc_cross_line	Pline	Magenta (6)
8	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
9	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.12.4 Parks and Open Spaces – Irrigation

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Irrigation line	Irrigationline	Line, Pline	Green (3)
4	Irrigation line text	Irrigation_line_txt	Text	Green (3)
5	Landscape cross-section Line	Landsc_cross_line	Line, Pline	Magenta (6)
6	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
7	Elements outside the boundary • Legend • Title Block • Others	Out_bound	Text, Line	Appropriate colours

6.12.5 Green Corridor/Network

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Green corridor boundaries	Green_corridor_bnd	Line, Pline	Medium Blue (150)
4	Green corridor Polygon	Green_corridor_poly	Polygon	Medium Blue (150)
5	Green corridor polygon	Green_corridor_hatch	Polygon	Support Plan
6	Green corridor boundaries text	Green_corridor_txt	Text	Medium Blue (150)
7	Green corridor line	Green_corridor	Line, Pline	Dark green (86)
8	Green corridor text	Green_corrdior_txt	Text	Dark green (86)
9	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
10	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)

No.	Feature name	Layer Name	Element Type	Colour
11	Elements outside the boundary • Legend • Title Block • Others	Out_bound	Text, Line	Appropriate colours

6.12.6 Pedestrian Linkages

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Pedestrian linkages line	Pedestrianlink	Line, Pline	Medium yellow (52)
4	Pedestrian linkages text	Pedestrian_link_txt	Text	Medium yellow (52)
5	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
6	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
7	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13   Landscape Master Plan (EB only)

For placement of the symbols in landscape plans, applicants should place the symbol along with the symbol code as suggested in the symbol table. If applicants need to modify a symbol to represent it in different way, they can do so provided they use the suggested symbol code. If the exact symbol is not found in the table, they should use the appropriate group code and their own defined symbol.

6.13.1 Planting Design

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Planting boundaries	Planting_bnd	Line, Pline	Green (3)
4	Planting Polygons	Planting_poly	Polygon,	Green (3)
5	Planting polygons	Planting_hatch	Polygons	Refer to support plan colours
6	Planting boundaries text	Planting_bnd_txt	Text	White (7)
7	Planting symbol	Planting_sym	Symbol	Refer to colour filled symbols
8	Planting symbol text	Planting_sym_txt	Text	White (7)
9	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
10	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)

11	Elements outside the boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.2 Hard Landscape - Landscape Furniture

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Landscape furniture boundaries	Hard_ls_furniture_bnd	Line, Pline	Cyan (4)
4	Landscape furniture Polygons	Hard_ls_furniture_poly	Polygon	Cyan (4)
5	Landscape furniture polygon	Hard_ls_furniture_hatch	Polygons	Refer to support plan colours
6	Landscape furniture boundaries text	Hard_ls furniture_bnd_txt	Text	Cyan (4)
7	Bollards line	Bollards_line	Line, Pline	Orange (31)
8	Bollards line text	Bollards_txt	Text	Orange (31)
9	Wall line	Wall_line	Line, Pline	Red(1)
10	Wall line text	Wall_line_txt	Text Line,	Red(1)
11	Fence line	Fencejine	Pline	Red (240)
12	Fence line text	Fence_line_txt	Text Line,	Red (240)
13	Gates line	Gates_line	Pline	Dark magenta (214)
14	Gates line text	Gates_line_txt	Text	Dark magenta (214)
15	Guardrails line	Guardrails_line	Line, Pline	Medium blue (150)
16	Guardrails line text	Guardrails_line_txt	Text	Medium blue (150)
17	Ballustrades line	Ballustrades_line	Line, Pline	Dark yellow (54)
18	Ballustrades line text	Ballustrades_line_txt	Text	Dark yellow (54)
19	Railings line	Railings_line	Line, Pline	Brown (36)
20	Railings line text	Railings_line_txt	Text	Brown (36)
21	Balluster line	Balluster_line	Line, Pline	Dark pink (222)
22	Balluster line text	Balluster _line_txt	Text	Dark pink (222)
23	Pedestral line	Pedestral_line	Line, Pline	Medium yellow (52)
24	Pedestral line text	Pedestral _line_txt	Text	Medium yellow (52)
25	Plinth line	Plinth_line	Line, Pline	Blue (5)

No.	Feature name	Layer Name	Element Type	Colour
26	Plinth line text	Plinth_Line_txt	Text	Blue (5)
27	Other landscape furniture line	Oth_ls_furniture_line	Line, Pline	White (7)
28	Other landscape furniture line text	Oth ls furniture line txt	Text	White (7)
29	Landscape furniture symbol	Hard_ls_furniture_sym	Symbol	Refer to colour filled symbols
30	Landscape furniture symbol text	Hard ls furniture sym_txt	Text	White (7)
31	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
32	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
33	Elements outside the boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.3   Hard Landscape - Signages and Advertisement Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Signages & advertisement symbol	Hard_ls_signages_sym	Symbol	Refer to colour filled symbols
4	Signages & advertisement symbol text	Hard ls signages sym_txt	Text	White (7)
5	Landscape cross-section Line	Landsc_cross_line	Line, Pline	Magenta (6)
6	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
7	Elements outside the boundary Landscape Master Plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.4   Hard Landscape - Fencing Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Fencing boundaries	Hard_ls_fencing_bnd	Line, Pline	Cyan (4)

No.	Feature name	Layer Name	Element Type	Colour
4	Fencing Polygons	Hard_ls_ fencing_poly	Polygon	Cyan (4)
5	Fencing polygon	Hard_ls_fencing_ hatch	Polygons	Refer to support plan colours
6	Fencing boundaries text	Hard ls fencing bnd txt	Text	Cyan (4)
7	Fencing line	Hard_ls_ fencingline	Line, Pline	Medium pink (221)
8	Fencing line text	Hard_ls_fencing_ Line_txt	Text	Medium pink (221)
9	Fencing symbol	Hard_ls_ fencing_sym	Symbol	Refer to colour filled symbols
10	Fencing symbol text	Hard ls fencing sym txt	Text	White (7)
11	Landscape cross-section Line	Landsc_cross_line	Line, Pline	Magenta (6)
12	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
13	Elements outside the boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.5   Hard Landscape - Recreational Facilities Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Recreational facilities boundaries	Hard_ls_facilities_ bnd	Line, Pline	Red(1)
4	Recreational facilities Polygons	Hard_ls_facilities__ poly	Polygon	Red(1)
5	Recreational facilities polygon	Hard_ls_facilities_ hatch	Polygons	Refer to support plan colours
6	Recreational facilities boundaries text	Hard_ls_facilities _ bnd_txt	Text	Red(1)
7	Jogging track line	Jogging_line	Line, Pline	Medium cyan (133)
8	Jogging track line text	Jogging_line_txt	Text	Medium cyan (133)
9	Skate track Line	Skate_line	Line, Pline	Medium magenta (212)
10	Skate track Line text	Skate_line_txt	Text	Medium magenta (212)

No.	Feature name	Layer Name	Element Type	Colour
11	Other recreational facility line	Oth_cs_recr_line	Line, Pline	White (7)
12	Other recreational facility line text	Oth_cs_recr_line_txt	Text	White (7)
13	Recreational facilities symbol	Hard_cs_facilities_sym	Symbol	Refer to colour filled symbols
14	Recreational facilities symbol text	Hard_ls_facilities_sym_txt	Text	White (7)
15	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
16	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
17	Elements outside the boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.6   Hard Landscape - Water Features Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Water features boundaries	Hard_ls_water_bnd	Line, Pline	Cyan (4)
4	Water features Polygons	Hard_ls_water_poly	Polygon	Cyan (4)
5	Water features polygon	Hard_ls_water_hatch	Polygons	Refer to support plan colours
6	Water features boundaries text	Hard_ls_water_bnd_txt	Text	Cyan (4)
7	Water features symbol	Hard_ls_water_sym	Symbol	Refer to colour filled symbols
8	Water features symbol text	Hard_ls_water_sym_txt	Text	White (7)
9	Landscape cross-section Line	Landsc_cross_line	Line, Pline	Magenta (6)
10	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
11	Elements outside the boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.7 Hard Landscape - Pedestrian and Bicycle Circulation Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Pedestrian boundaries	Hard_ls_pedest_bnd	Line, Pline	Cyan (4)
4	Pedestrian Polygons	Hard_ls_pedest_poly	Polygons	Cyan (4)
5	Pedestrian closed polygon	Hard_ls_pedest_Hatch	polygons	Refer to support plan colours
6	Pedestrian boundaries text	Hard_ls_pedest_bnd_txt	Text	Cyan (4)
7	Cycle boundaries	Hard_ls_cycle_bnd	Line, Pline	Green (3)
8	Cycle Polygons	Hard_ls_cycle_poly	Polygons	Green (3)
9	Cycle polygon	Hard_ls_cycle_hatch	polygons	Refer to support plan colours
10	Cycle boundaries text	Hard_ls_cycle_bnd_txt	Text	Green (3)
11	Pedestrian circulation line	Pedestrianjine	Line, Pline	Brown (25)
12	Pedestrian circulation line text	Pedestrian_line_txt	Text	Brown (25)
13	Cycle circulation line	Cyclejine	Line, Pline	Medium yellow (52)
14	Cycle circulation line Text	Cycle_line_txt	Text	Medium yellow (52)
15	Other circulation line	Oth_Cycle_line	Line, Pline	White (7)
16	Other circulation line Text	Oth_Cycle_line_txt	Text	White (7)
17	Pedestrian circulation symbol	Hard_ls_pedest_sym	Symbol	Refer to colour filled symbols
18	Pedestrian circulation symbol text	Hard_ls_pedest_sym_txt	Text	White (7)
19	Cycle circulation line symbol	Hard_ls_cycle_sym	Symbol	Refer to colour filled symbols
20	Cycle circulation line symbol text	Hard_ls_cycle_sym_txt	Text	White (7)
21	Other circulation symbol	Oth_cir_sym	Symbol	White (7)
22	Other circulation symbol text	Oth_cir_sym_txt	Text	White (7)
23	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)

No.	Feature name	Layer Name	Element Type	Colour
24	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
25	Elements outside the boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.8 Landscape Lighting Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Landscape lighting line	Landsc_light_line	Line, Pline	Medium pink (221)
4	Landscape lighting line text	Landsc_light_line_txt	Text	Medium pink (221)
5	Landscape lighting symbol	Landsc_light_sym	Symbol	Ref to colour filled symbols
6	Landscape lighting symbol text	Landsc_light_sym_txt	Text	White (7)
7	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
8	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)
9	Elements Outside the Boundary Landscape master plan schedule F • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.13.9 Irrigation Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Irrigation line	Irrigation_line	Line, Pline	Green (3)
4	Irrigation line text	Irrigation_line_txt	Text	Green (3)
5	Irrigation symbol	Irrigation_sym	Symbol	Support plan
6	Irrigation symbol text	Irrigation_sym_txt	Text	White
7	Landscape cross-section line	Landsc_cross_line	Line, Pline	Magenta (6)
8	Landscape cross-section text	Landsc_cross_txt	Text	Magenta (6)

No.	Feature name	Layer Name	Element Type	Colour
9	Elements outside the boundary Landscape master plan schedule for each layer • Legend for each layer • Title block • Others	Out_bound	Text, Line	Appropriate colours

6.14 Tree Inventory (Layout only)

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Tree zoning boundary	Tree_zone_bound	Line, Pline	Medium cyan (133)
4	Tree zoning Polygon	Tree_zone_poly	Polygon,	Medium cyan (133)
5	Tree zoning polygon	Tree_zone_hatch	Polygon	Refer to support plan colours
6	Tree polygon text	Tree_text	Text	Medium cyan (133)
7	Elements outside the boundary • Legend • Table • Title block • Others	Out_bound	Text, Line	Appropriate Colours

6.15 Earth Work Plan

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Existing contour line	Extg_cont_line	Line, Pline	White (7)
4	Existing contour line text	Extg_cont_line_txt	Text	White (7)
5	Cut / fill area boundary	Cut_fill_bound	Line, Pline	Medium magenta(212)
6	Cut area Polygon	Cut_area_poly	Polygon	Medium magenta(212)
7	Cut area polygon	Cut_area_hatch	Polygon	Refer to support plan colours
8	Cut area text	Cut_area_txt	Text	Medium magenta(212)
9	Fill area Polygon	Fill_area_poly	Polygon	Medium magenta(212)

No.	Feature name	Layer Name	Element Type	Colour
10	Fill area polygon	Fill_area_hatch	Polygon	Refer to support plan colours
11	Fill area text	Fill_area_txt	Text	Medium magenta(212)
12	Final platform level text	Final_platform_lvl	Text	Dark pink (222)
13	Proposed contour line	Prop_cont-line	Line, Pline	Green (3)
14	Proposed contour text	Prop_cont_line_txt	Text	Green (3)
15	Final slope line	Final_slope_line	Line, Pline	Medium yellow (52)
16	Final slope - less than 10 degree	Final_slope_ELN10	Polygon	Brown (36)
17	Final slope - less than 10 degree	Final_slope_ELN10_hatch	Polygon	Yellow (51)
18	Final slope - 10 to 15 degree	Final_slope_E1015	Polygon	Brown (36)
19	Final slope - 10 to 15 degree	Final_slope_E1015_hatch	Polygon	Yellowish brown (41)
20	Final slope - 15 to 20 degree	Final_slope_E1520	Polygon	Brown (36)
21	Final slope -15 to 20 degree	Final_slope_E1520_hatch	Polygon	Light brown (43)
22	Final slope - More than 20 degree	Final_slope_EMT20	Polygon	Brown (36)
23	Final slope - More than 20 degree	Final_slope_EMT20_hatch	Polygon	Dark brown (42)
24	Final slope text	Final_slope_line_txt	Text	Medium yellow (52)
25	Temporary earth drain line	Temp_earth_drain_line	Line, PLine	Orange (31)
26	Temporary earth drain text	Temp_earth_drain_txt	Text	Orange (31)
27	Other earthwork line	Oth_earth_line	Line, Pline	Red(1)
28	Other earthwork text	Oth_earth_line_txt	Text	Red(1)
29	Earthwork cross-section line	Earth_cross_line	Line, Pline	Medium cyan (133)
30	Earthwork cross-section text	Earth_cross_line_txt	Text	Medium cyan (133)
31	Earthwork symbol layer	Earth_slope_sym	Symbol	Refer to colour filled symbols
32	Earthwork symbol text	Earth_slope_txt	Text	White (7)
33	Elements outside the boundary • Legend • Title block • Others	Out_bound	Text, Line	Appropriate colours

Contour height text should be placed within a tolerance of 5m from the respective line.

6.16   Slope Analysis Map (Layout only)

No.	Feature name	Layer Name	Element Type	Colour
1	Submission boundary	Submn_bound	Line, Pline	Red (20)
2	Base map details	Base	Line, Pline	White (7)
3	Slope boundary line	Slope_boundary	Line, Pline	Brown (36)
4	Less Than 10 degree	LLN10	Closed Polyline	Brown (36)
5	Less than 10 degree	LLN10_hatch	Polygon	Yellow (51)
6	10 to 15 degree	L15	Closed Polyline	Brown (36)
7	10 to 15 degree	L15_hatch	Polygon	Yellowish Brown (41)
8	10 to 20 degree	L1520	Closed Polyline	Brown (36)
9	10 to 20 degree	L1520_hatch	Polygon	Light Brown (43)
10	More than 20 degree	LMT20	Closed Polyline	Brown (36)
11	More than 20 degree	LMT20_hatch	Polygon	Dark Brown (42)
12	Slope text	Slope_txt	Text	White (7)
13	Elements outside the boundary • Legend • Table • Title block • Others	Out_bound	Text, Line	Appropriate Colours

7 Land Use Colour for Layout Plan and Site Plan

The following land use colour should be used for below respective plan :

No.	Land Use Clasification / Description	Colour	Colour Code	Outline Colour
1.0	**Residential**			
1.1	Bungalow	Light orange	41	
1.2	Semi detached	Light pink	21	
1.3	Zero lot	Orange	40	
1.4	Terrace	Orange	40	
1.5	Town house	Pink	241	
1.6	Cluster house	Pinkish brown	23	
1.7	Affordable homes	Brown	34	
1.8	Apartment	Orange brown	32	
1.9	Condominium	Light brown	42	
1.10	Istana Selangor	Pink	11	
1.11	Others (specify)	Pink	11	
2.0	**Commercial**			
	a. Commercial / commercial office	Blue	140	
	b. Commercial complex (EB only)	Blue	140	
	c. Office complex (EB only)	Blue	140	
	d. Hotel (EB only)	Blue	140	
	e. Banking & finance (EB only)	Blue	140	
	f. Mix development	Blue	140	
	g. Shop office (EB only)	Blue	140	
	h. Shopping mall / arcade / bazaar (EB only)	Blue	140	
	i. Multi-storey parking (EB only)	Blue	140	
	j. Others (specify)	Blue	140	
2.1	Petrol station without service	Blue	140	
2.2	Private amenities	Blue	140	Red (230)
	a. Institution of higher learning	Blue	140	Red (230)
	b. Medical centre	Blue	140	Red (230)
	c. General post office	Blue	140	Red (230)
	d. Post office	Blue	140	Red (230)
	e. Welfare home	Blue	140	Red (230)
	f. Sports & recreational club	Blue	140	Red (230)
	g. School	Blue	140	Red (230)
	h. Kindergarten	Blue	140	Red (230)
	i. Others (specify)	Blue	140	Red (230)
3.0	**Public Amenities**			
	Owned by PTP			
3.1	Religious Institution	Yellow	50	
	• Mosque	Yellow	50	
	• Mosque & religious school complex	Yellow	50	
	• Surau	Yellow	50	
	• Surau & religious school complex	Yellow	50	
	• Other religious Institution	Yellow	50	

No.	Land Use Clasification / Description	Colour	Colour Code	Outline Colour
3.2	Health	Red	230	
	• District hospital	Red	230	
	• Health clinic	Red	230	
	• Welfare home	Red	230	
	• Handicapped center	Red	230	
	• Convalescence	Red	230	
	• Others (specify)	Red	230	
3.3	Education	Light green	61	Red (230)
	• Primary school	Light green	61	Red (230)
	• Secondary school	Light green	61	Red (230)
	• Religious school	Light green	61	Red (230)
	• School complex (primary & secondary)	Light green	61	Red (230)
	• Religious school complex	Light green	61	Red (230)
	• Special School (for disable)	Light green	61	Red (230)
	• Institution of Higher Learning	Light green	61	Red (230)
	• Others (specify)	Light Ggreen	61	Red (230)
3.4	Police	Red	230	
	• District police HQ	Red	230	
	• Town police station	Red	230	
	• Marine police office	Red	230	
	• Mounted police	Red	230	
	• Others (specify)	Red	230	
3.5	Fire & rescue services	Red	230	
	• Fire & rescue HQ	Red	230	
	• Fire & rescue station	Red	230	
	• Others (specify)	Red	230	
3.6	Istana hinggap	Red	230	
3.7	Other public amenities (PTP land)	Red	230	Yellow (50)
	Owned by Perbadanan Putrajaya			
3.8	Neighbourhood complex	Red	230	Yellow (50)
3.9	Library	Red	230	Yellow (50)
	• Library	Red	230	Yellow (50)
	• Resource centre	Red	230	Yellow (50)
	• Others (specify)	Red	230	Yellow (50)
3.10	Community hall	Red	230	Yellow (50)
3.11	Multi-Purpose hall	Red	230	Yellow (50)
3.12	Information centre	Red	230	Yellow (50)
3.13	Visitor centre	Red	230	Yellow (50)
3.14	Civic & cultural facilities	Red	230	Yellow (50)
3.15	Exhibition centre / area	Red	230	Yellow (50)
3.16	Public market	Red	230	Yellow (50)
3.17	Food court	Red	230	Yellow (50)
3.18	Public toilet	Red	230	Yellow (50)

No.	Land Use Clasification / Description	Colour	Colour Code	Outline Colour
3.19	Public recreation club	Red	230	Yellow (50)
	• Gymnasium	Red	230	Yellow (50)
	• Sport & athletic field	Red	230	Yellow (50)
	• Outdoor stadium	Red	230	Yellow (50)
	• Indoor stadium	Red	230	Yellow (50)
	• Velodrome	Red	230	Yellow (50)
	• Swimming complex	Red	230	Yellow (50)
	• Aqua sports	Red	230	Yellow (50)
	• Others (specify)	Red	230	Yellow (50)
3.20	Cemetery	Green	64	Yellow (50)
3.21	Look out tower (EB only)	Red	230	Yellow (50)
3.22	Wakaf(EBonly)	Red	230	Yellow (50)
3.23	Guard house (EB only)	Red	230	Yellow (50)
3.24	Kiosk (EB only)	Red	230	Yellow (50)
3.25	Pavilion (EB only)	Red	230	Yellow (50)
3.26	Crematorium (EB only)	Red	230	Yellow (50)
3.27	Other public amenities (Perbadanan)	Red	230	Yellow (50)
4.0	**Government use**			
4.1	Government office	Red	230	
4.2	Semi-government office	Red	230	
4.3	Perbadanan office	Red	230	
4.4	Perbadanan reserve	Red	230	
4.5	Diplomatic enclave	Red	230	
4.6	Archive	Red	230	
4.7	Gallery	Red	230	
4.8	Convention & exhibition hall	Red	230	
4.9	Sport & training complex	Red	230	
4.10	Court of law	Red	230	
4.11	Museum	Red	230	
4.12	VIP hotel	Red	230	
4.13	VIP retreat	Red	230	
4.14	Government reserve	Red	230	
4.15	Other government use (specify)	Red	230	
5.0	**Service industry**			
5.1	Service industry	Magenta	210	
5.2	Perbadanan depot	Magenta	210	
5.3	Bus depot	Magenta	210	
5.4	Petrol station with services	Blue	140	Magenta (210)
5.5	Other service industry (specify)	Magenta	210	
6.0	**Park and Open Space**			
6.1	Metropolitan park (Taman Botani, Taman Putra Perdana, Taman Rimba Alam, Taman Warisan Pertanian, Taman Wawasan, Taman Nusantara, Taman Sri Bayu, Taman Lindungan, Taman Selatan, Taman Rimba Desa, Taman Saujana Hijau, Taman Wetland & Taman Puncak Selatan)	Green	82	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
6.2	Urban park	Green	90	
	• Dataran Putra	Green	90	
	• Perdana Walk	Green	90	
	• Linear Park	Green	90	
	• Ridge Line Park	Green	90	
	• Riparian Park	Green	90	
	• Hilltop Park	Green	90	
	• Lake Valley Park	Green	90	
	• Green Corridor/ Network	Green	90	
6.3	City park	Green	101	
	• Community park	Green	101	
	• Neighbourhood park	Green	101	
	• Pocket park	Green	101	
	• Plaza / square	Green	101	
6.4	Local Park	Light green	60	
	• Playground	Light green	60	
	• Play court / play fields / play lots	Light green	60	
	• Fitness station	Light green	60	
	• Others	Light green	60	
6.5	Boulevard	Yellowish green	53	
	• Dataran (Dataran Wawasan, Dataran	Yellowish green	53	
6.6	Promenade	Dark green	96	
	• Type A (hard edge)	Dark green	96	
	• Type B (semi hard edge)	Yellow	51	
	• Type C (soft edge)	Green	63	
6.7	Waterbody	Light blue	131	
	•Lake	Light blue	131	
	•Wetlands	Grey blue	135	
	• Retention pond	Light blue	131	
	• River	Light blue	131	
	• Dam	Light green	123	
6.8	Buffer zones (Landscape buffer, road	Light green	66	
6.9	Other parks (specify)	Light green	60	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
7.0	**Public Utilities**			
7.1	Electricity supply	Greenish blue	120	
	• TNB rentice reserve	Greenish blue	120	
	•PMU	Greenish blue	120	
	•PPU	Greenish blue	120	
	•PE	Greenish blue	120	
	• Compact PE	Greenish blue	120	
	• Others (specify)	Greenish blue	120	
7.2	Water supply	Cyan	130	
	• Water treatment plant	Cyan	130	
	• Water reservoir	Cyan	130	
	•Water tank	Cyan	130	
	• Water pumping house	Cyan	130	
	• Others (specify) Sewerage	Cyan	130	
7.3	Sewerage	Grey	252	
	•STP	Grey	252	
	• Main sewerage pump station	Grey	252	
	• Sewerage pump station	Grey	252	
	• Others (specify)	Grey	252	
7.4	Solid waste	Brownish grey	37	
	• Transfer station	Brownish grey	37	
	• Drop off centre / recycle centre	Brownish grey	37	
	• Bin house	Brownish grey	37	
	• Others (specify)	Brownish grey	37	
7.5	Telecommunication	Dark magenta	202	
	• Telecom exchange	Dark magenta	202	
	• Satellite earth station	Dark magenta	202	
	• Radio site /tower	Dark magenta	202	
	• Fibre distribution house	Dark magenta	202	
	• Multi-Media gateway (MMG)	Dark magenta	202	
	• IT ducting corridor	Dark magenta	202	
	• Others (specify)	Dark magenta	202	
7.6	Gas	Pink	231	
	• Petronas gas pipeline reserve	Pink	231	
	• Multi-product pipeline reserve	Pink	231	
	• District gas station	Pink	231	
	• Area gas station	Pink	231	
	• Others (specify)	Pink	231	
7.7	Gas District Cooling	Light magenta	213	
	• District cooling centre	Light magenta	213	
	• Others (specify)	Light magenta	213	
7.8	Utility Hub	Purple	171	
7.9	Irrigation pump house (EB Only)	Light blue	131	
7.10	Other public utilities (specify)	Purple	171	
8.0	**Transportation land use**			
8.1	Road reserve	Grey	254	
8.2	ERL reserve	Yellow	50	
8.3	Monorail reserve	Yellow	50	
8.4	Transportation hub/terminal	Light magenta	211	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
8.5	Park & Ride station	Grey	254	
8.6	Multi-Storey parking	Grey	254	
8.7	Monorail station	Grey	254	
8.8	Bus station	Grey	254	
8.9	Taxi station	Grey	254	
8.10	Bridge	Grey	254	
8.11	Parking	Grey	254	
8.12	Bus / taxi lay-by	Grey	254	
8.13	Bus holding area	Grey	254	
8.14	Ferry terminal	Grey	254	
8.15	Others (specify)	Grey	254	
9.0	**Drainage land use**			
9.1	Drainage reserve	Light blue	131	
9.2	Gross pollutant trap area	Light blue	131	
9.3	Oil & grease trap area	Light blue	131	
9.4	Drainage-sump area (EB only)	Light blue	131	
9.5	Others (Specify)	Light blue	131	

8 Sub Parcel Internal Land Use Components (Site Plan Only)

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
1.0	**Residential**			
1.1	**Residential (landed)**			
1.1.1	**Building plinth**			
	• Bungalow	Light orange	41	
	• Semi detached	Light pink	21	
	• Zero lot	Orange	40	
	• Terrace	Orange	40	
	• Town house	Pink	241	
	• Cluster house	Pinkish brown	23	
	• Istana selangor	Pink	11	
	• Other residential (landed)	Pink	11	
1.1.2	**Support building plinth**			
	• Guard house	Red	230	
	• Others	Red	230	
1.1.3	**Driveway**	Grey	254	
1.1.4	**Open terrace**	Brown	15	
1.1.5	**Porch**	Grey	252	
1.1.6	**Soft landscape**	Light green	81	
1.1.7	**Hard landscape**	Light brown	33	
1.1.8	**Others**	Light brown	33	
1.2	**Residential (non-landed)**			
1.2.1	**Building plinth**			
	• Affordable homes	Brown	34	
	• Apartment	Orange brown	32	
	• Condominium	Light brown	42	
	• Other residential (non-landed)	Pink	11	
1.2.2	**Support Building Plinth**			
	• Dewan Orang Ramai / Dewan Serbaguna	Red	230	
	• Surau	Yellow	50	
	• Guard house	Red	230	
	•TNB	Pink	231	
	• Gas	Greenish blue	120	
	• Bin house	Brownish grey	37	
	• Others	Red	230	
1.2.3	**Hard Landscape**			
	• Children playground	Light brown	33	
	• Playfield / playcourt / playlot / other fields	Light brown	33	
	• Plaza	Light brown	33	
	• Courtyard	Light brown	33	
	• Pedestrian / cycle path	Orange brown	15	
	• Water features	Light blue	131	
	• Other hard landscape elements	Light brown	33	
1.2.4	**Soft landscape**	Light green	81	
1.2.5	**Road / parking / drop off/ pick up area**	Grey	254	
1.2.6	**Others**	Brownish green	53	
2.0	**Commercial**			
2.1	**Commercial (landed)**			
2.1.1	**Building plinth**			
	• Shop office	Blue	140	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
	• Shop houses	Blue	140	
	• Shop lots	Blue	140	
	• Other commercial (landed)	Blue	140	
2.1.2	**Support building plinth**			
	• Guard house	Red	230	
	• Others	Red	230	
2.1.3	**Soft landscape**	Light green	81	
2.1.4	**Hard landscape**	Light brown	33	
2.1.5	**Others**	Light brown	33	
2.2	**Others Commercial (non-landed)**			
2.2.1	**Building plinth**			
	i. Commercial			
	• Commercial / commercial office	Blue	140	
	• Commercial complex	Blue	140	
	• Office complex	Blue	140	
	• Hotel	Blue	140	
	• Banking & finance	Blue	140	
	• Mix development	Blue	140	Orange Brown (32)
	• Shopping mall / arcade/ bazaar	Blue	140	
	• Other commercial (non-landed)	Blue	140	
	ii. Petrol station without service	Blue	140	
	iii. Private amenities			
	• Institution of higher learning	Blue	140	Red (230)
	• Medical centre	Blue	140	Red (230)
	• General post office	Blue	140	Red (230)
	• Post office	Blue	140	Red (230)
	• Welfare home	Blue	140	Red (230)
	• Sport & recreational club	Blue	140	Red (230)
	• School	Blue	140	Red (230)
	• Kindergarten	Blue	140	Red (230)
	• Others	Blue	140	Red (230)
2.2.2	**Support building plinth**			
	• Guard house	Red	230	
	• Others	Red	230	
2.2.3	**Hard Landscape**			
	• Children playground	Light brown	33	
	• Playfield / playcourt / playlot / other fields	Light brown	33	
	• Plaza	Light brown	33	
	• Courtyard	Light brown	33	
	• Pedestrian / cycle path	Orange brown	15	
	•Water features	Light blue	131	
	• Other hard landscape elements	Light brown	33	
2.2.4	**Soft landscape**	Light green	81	
2.2.5	**Road / parking / drop off / pick up area**	Grey	254	
2.2.6	**Others**	Brownish green	53	
3.0	**Public amenities**			
3.1	**Building plinth**			
3.1.1	**Owned by PTP**			
	i. Religious institution			
	• Mosque	Yellow	50	
	• Mosque & religious school complex	Yellow	50	
	• Surau	Yellow	50	
	• Surau & religious school complex	Yellow	50	
	• Others	Yellow	50	
	ii. Health			

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
	• District hospital	Red	230	
	• Health clinic	Red	230	
	• Welfare home	Red	230	
	• Handicapped center	Red	230	
	• Convalescence	Red	230	
	• Others	Red	230	
	iii. Education			
	• Primary school	Light green	61	Red (230)
	• Secondary school	Light green	61	Red (230)
	• Religious school	Light green	61	Red (230)
	• School complex (primary & secondary)	Light green	61	Red (230)
	• Religious school complex	Light green	61	Red (230)
	• Special school (for disable)	Light green	61	Red (230)
	• Institution of higher learning	Light green	61	Red (230)
	• Others	Light green	61	Red (230)
	iv. Police			
	• District police HQ	Red	230	
	• Town police station	Red	230	
	• Marine police office	Red	230	
	• Mounted police	Red	230	
	• Others	Red	230	
	v. Fire & rescue services			
	• Fire & rescue HQ	Red	230	
	• Fire & rescue station	Red	230	
	• Others	Red	230	
	vi. Istana Hinggap	Red	230	
	vii. Other PTP amenities	Red	230	
3.1.2	**Owned by Perbadanan Putrajaya**			
	i. Neighbourhood complex	Red	230	Yellow (50)
	ii. Library			
	• Library	Red	230	Yellow (50)
	• Resource centre	Red	230	Yellow (50)
	• Others (specify)	Red	230	Yellow (50)
	iii. Community hall	Red	230	Yellow (50)
	iv. Multi-Purpose hall	Red	230	Yellow (50)
	v. Information centre	Red	230	Yellow (50)
	vi. Visitor centre	Red	230	Yellow (50)
	vii. Civic & cultural facilities	Red	230	Yellow (50)
	viii. Exhibition centre/Area	Red	230	Yellow (50)
	ix. Public market	Red	230	Yellow (50)
	x. Food court	Red	230	Yellow (50)
	xi. Public toilet	Red	230	Yellow (50)
	xii. Public recreation club			
	• Gymnasium	Red	230	Yellow (50)
	• Sports & athletic field	Red	230	Yellow (50)
	• Outdoor stadium	Red	230	Yellow (50)
	• Indoor stadium	Red	230	Yellow (50)
	• Velodrome	Red	230	Yellow (50)
	• Swimming complex	Red	230	Yellow (50)
	•Aqua sports	Red	230	Yellow (50)
	• Others	Red	230	Yellow (50)
	xiii. Cemetery	Green	64	Yellow (50)
	xiv. Look out tower	Red	230	Yellow (50)
	xv. Wakaf	Red	230	Yellow (50)
	xvi. Guard house	Red	230	Yellow (50)
	xvii. Kiosk	Red	230	Yellow (50)
	xviii. Pavilion	Red	230	Yellow (50)
	xix. Crematorium	Red	230	Yellow (50)
	xx. Other PPj amenities	Red	230	Yellow (50)
3.1.3	**Support building plinth**			

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
	• Guard house	Red	230	
	• Bin house	Brownish grey	37	
	• Gas	Greenish blue	120	
	•TNB	Pink	231	
	• Others	Red	230	
3.2	**Hard Landscape**			
	• Children playground	Light brown	33	
	• Playfield / playcourt / playlot / others • Fields	Light brown	33	
	• Plaza	Light brown	33	
	• Courtyard	Light bown	33	
	• Pedestrian / cycle path	Orange brown	15	
	• Water features	Light blue	131	
	• Other hard landscape elements	Light brown	33	
3.3	**Soft landscape**	Light green	81	
3.4	**Road / parking / drop off / pick up area**	Grey	254	
3.5	**Others**	Brownish green	53	
4.0	**Government buildings**			
4.1	Building plinth			
	i) Government office	Red	230	
	ii) Semi-Government office	Red	230	
	iii) Perbadanan office	Red	230	
	iv) Perbadanan rReserve	Red	230	
	v) Diplomatic enclave	Red	230	
	vi) Archive	Red	230	
	vii) Gallery	Red	230	
	viii) Convention & exhibition hall	Red	230	
	ix) Sports & training complex	Red	230	
	x) Court Of law	Red	230	
	xi) Museum	Red	230	
	xii) VIP hotel	Red	230	
	xiii) VIP retreat	Red	230	
	xiv) Government reserve	Red	230	
	xv) Other government buildings	Red	230	
4.2	**Support building plinth**			
	• Guard house	Red	230	
	• Bin house	Brownish grey	37	
	• Gas	Greenish blue	120	
	•TNB	Pink	231	
	• Others	Red	230	
4.3	**Hard landscape**			
	• Children playground	Light brown	33	
	• Playfield / playcourt / playlot / other fields	Light brown	33	
	• Plaza	Light brown	33	
	• Courtyard	Light brown	33	
	• Pedestrian / cycle path	Orange brown	15	
	•Water features	Light blue	131	
	• Other hard landscape elements	Light brown	33	
4.4	**Soft landscape**	Light green	81	
4.5	**Road / parking / drop off/ pick up area**	Grey	254	
4.6	**Others**	Brownish Green	53	
5.0	**Service industry**			
5.1	**Building plinth**			
	i) Service industry	Magenta	210	
	ii) Perbadanan depot	Magenta	210	
	iii) Bus depot	Magenta	210	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
	iv) Petrol station with services	Blue	140	Magenta (210)
	v) Other service industry	Magenta	210	
5.2	**Support building plinth**			
	• Bin house	Brownish grey	37	
	• Others	Red	230	
5.3	**Hard landscape**			
	• Pedestrian / cycle path	Light brown	33	
	• Other Hard Landscape Elements	Light brown	33	
5.4	**Soft Landscape**	Light green	81	
5.5	**Road/ Parking/Drop Off/Pick Up Area**	Grey	254	
5.6	**Others**	Brownish green	53	
6.0	**Public Utilities**			
6.1	**Building plinth**			
	i. Electricity supply			
	•PMU	Greenish blue	120	
	•PPU	Greenish blue	120	
	•PE	Greenish blue	120	
	• Compact PE	Greenish blue	120	
	• Others	Greenish blue	120	
	ii. Water supply			
	• Water treatment plant	Cyan	130	
	•Water reservoir	Cyan	130	
	•Water tank	Cyan	130	
	•Waterpumping house	Cyan	130	
	• Others	Cyan	130	
	iii. Sewerage			
	•STP	Grey	252	
	• Main sewerage pump station	Grey	252	
	• Sewerage pump station	Grey	252	
	• Others	Grey	252	
	iv. Solid waste			
	• Transfer station	Brownish grey	37	
	• Drop off centre / recycle centre	Brownish grey	37	
	• Bin house	Brownish grey	37	
	• Others	Brownish grey	37	
	v. Telecommunications			
	• Telecom Exchange	Dark magenta	202	
	• Satellite Earth Station	Dark magenta	202	
	• Radio site /tower	Dark magenta	202	
	• Fibre Distribution House	Dark magenta	202	
	• Multi-Media gateway (MMG)	Dark magenta	202	
	• Others	Dark magenta	202	
	vi. Gas			
	• District gas station	Pink	231	
	• Area gas station	Pink	231	
	• Others	Pink	231	
	vii. Gas district cooling			
	• District cooling centre	Light magenta	213	
	• Others	Light magenta	213	
	viii. Utility hub	Purple	171	
	ix. Irrigation pump house	Light blue	131	
	x. Other public utilities	Purple	171	
6.2	**Support building plinth**			
	• Guard house	Red	230	
	• Bin house	Brownish grey	37	
	• Gas	Greenish blue	120	
	•TNB	Pink	231	
	• Others	Red	230	
6.3	**Hard landscape**	Light brown	33	
6.4	**Soft landscape**	Light green	81	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
6.5	**Road / parking / drop off / pick up area**	Grey	254	
6.6	**Others**	Brownish green	53	
7.0	**Transportation buildings**			
7.1	**Building plinth**			
	i. Transportation hub /terminal	Light magenta	211	
	ii. Park & ride station	Grey	254	
	iii. Multi-storey parking	Grey	254	
	iv. Monorail station	Grey	254	
	v. Bus station	Grey	254	
	vi. Taxi station	Grey	254	
	vii. Bridge	Grey	254	
	viii. Bus /taxi lay-by	Grey	254	
	ix. Bus holding area	Grey	254	
	x. Ferry terminal	Grey	254	
	xi. Other transportation buildings	Grey	254	
7.2	**Support building plinth**			
	• Guard house	Red	230	
	• Bin house	Brownish grey	37	
	• Gas	Greenish blue	120	
	•TNB	Pink	231	
	• Others	Red	230	
7.3	**Hard Landscape**			
	• Plaza	Light brown	33	
	• Courtyard	Light brown	33	
	• Pedestrian / cycle path	Orange brown	15	
	• Water Features	Light blue	131	
	• Other hard landscape elements	Light brown	33	
7.4	**Soft landscape**	Light green	81	
7.5	**Road / parking / drop off / pick up area**	Grey	254	
7.6	**Others**	Brownish green	53	
8.0	**Parks & open spaces**			
8.1	**Building Plinth**			
	i. Community hall	Red	230	Yellow (50)
	ii. Multi-Purpose hall	Red	230	Yellow (50)
	iii. Information centre	Red	230	Yellow (50)
	iv. Civic & cultural facilities	Red	230	Yellow (50)
	v. Exhibition centre / area	Red	230	Yellow (50)
	vi. Food court	Red	230	Yellow (50)
	vii. Public toilet	Red	230	Yellow (50)
	viii. Public recreation club			
	• Gymnasium	Red	230	Yellow (50)
	• Sports & athletic field	Red	230	Yellow (50)
	• Outdoor stadium	Red	230	Yellow (50)
	• Indoor stadium	Red	230	Yellow (50)
	• Velodrome	Red	230	Yellow (50)
	• Swimming complex	Red	230	Yellow (50)
	•Aqua sports	Red	230	Yellow (50)
	• Others	Red	230	Yellow (50)
	ix. Look out tower	Red	230	Yellow (50)
	x. Wakaf	Red	230	Yellow (50)
	xi. Guard house	Red	230	Yellow (50)
	xii. Kiosk	Red	230	Yellow (50)
	xiii. Pavilion	Red	230	Yellow (50)
	xiv. Crematorium	Red	230	Yellow (50)
	xv. Dam	Light green	123	
	xvi. Other parks & open spaces	Red	230	Yellow (50)
8.2	**Support building plinth**			
	• Bin house	Brownish grey	37	
	• Gas	Greenish blue	120	

No.	Land Use Classification / Description	Colour	Colour Code	Outline Colour
	• TNB	Pink	231	
	• Others	Red	230	
8.3	**Hard landscape**			
	• Children playground	Light brown	33	
	• Playfield / playcourt / playlot / other fields	Light brown	33	
	• Plaza	Light brown	33	
	• Courtyard	Light brown	33	
	• Pedestrian / cycle path	Orange brown	15	
	•Water features	Light blue	131	
	• Other hard landscape elements	Light brown	33	
8.4	**Soft landscape**	Light green	81	
8.5	**Road / parking / drop off / pick up area**	Grey	254	
8.6	**Others**	Brownish green	53	
9.0	**Road reserve**			
9.1	**Building plinth**			
	• Bus / taxi lay-by	Grey	254	
	• Other road reserve	Grey	254	
9.2	**Road / carriageway**	Grey	254	
9.3	**Median**	Light green	81	
9.4	**Parking**	Grey	254	
9.5	**Soft landscape**	Light green	81	
9.6	**Hard landscape**	Light brown	33	
9.7	**Roadside drain**	Light blue	131	
9.8	**Others**	Light brown	33	
10.0	**Parking area**			
10.1	**Building plinth**			
	• Wakaf	Red	230	Yellow (50)
	• Toilet	Red	230	Yellow (50)
	• Other parking area	Red	230	Yellow (50)
10.2	**Parking / premix / drop off**	Grey	254	
10.3	**Soft landscape**	Light green	81	
10.4	**Hard landscape**	Light brown	33	
10.5	**Others**	Light brown	33	
11.0	**Drainage reserve**			
11.1	**Building plinth**			
	• Gross pollutant trap area	Light blue	131	
	• Oil & grease trap area	Light blue	131	
	• Drainage sump area	Light blue	131	
	• Other drainage reserve	Light blue	131	
11.2	**Drainage**	Light blue	131	
11.3	**Soft landscape**	Light green	81	
11.4	**Hard landscape**	Light brown	33	
11.5	**Others**	Light brown	33	
12.0	**Other transportation reserve**			
12.1	**Building plinth**			
	• Monorel station	Grey	254	
	• Other transportation reserve	Grey	254	
12.2	**Track**	Yellow	50	
12.3	**Others**	Yellow	50	

9   Zoning Colour for Supporting Plans

No.	Land Use Classification / Description	Colour	Colour Code
1.	Earthwork		
	Cut area	Red	10
	Fill area	Cyan	130
	Final Slope		
	Less than 10 degree	Yellow	51
	• 10-15 degree	Yellowish brown	41
	• 15-20 degree		
	• Above 20 degree	Dark brown	42
	Other earthwork zoning (specify)	Yellow	51
2.	Slope analysis (layout only)		
	Less than 10 degree	Yellow	51
	10-15 degree	Yelowish brown	41
	15 -20 degree	Light brown	40
	Above 20 degree	Dark brown	42
3.	Tree inventory		
	Tree species	Light green	101
	Tree category	Dark green	93
	Other tree inventory zoning (specify)	Yellow	51
4a.	Landscape conceptual plan (layout only)		
	Soft landscape	Light green	81
	Hard landscape		
	Recreational facilities	Light brown	33
	Water features	Light blue	131
	Green corridor/ network	Green	90
	Other zoning (specify)	Light brown	33
4b.	Landscape Master Plan (EB only)		
	Planting	Green	70
	Hard landscape		
	Recreational facilities	Brown	33
	Water features	Light blue	131
	Pedestrian and cycle circulation		
	Pedestrian	Brown	15
	Bicycle	Yellow	51
	Landscape furniture	Orange	40
	Ramp	Yellowish brown	41
	Paving	Orange	40
	Fencing	Green	96
	Other zoning (specify)	Light brown	33

10 Line Colour and Element for Supporting Plans

The following colour scheme should be used for the respective supporting plans to Layout Plan, Erection of Building or Temporary Building. The colour codes specific for different utility elements of various plans are indicated below. The specified line width is for plotting purpose only. So on screen all the lines will be displayed in the same width.

No.	Line Elements	Colour	Colour Code	Line Width
1	Infra: Transportation			
	Road Centre Lines			
	Expressway	Brown	44	0.50
	Primary distributor	Dark cyan	134	0.35
	Secondary distributor	Dark pink	222	0.35
	Local distributor	Medium green	84	0.25
	Spine road	Medium red	240	0.25
	Local road	Medium yellow	52	0.25
	Access road	Medium cyan	133	0.25
	Cul-de-sac	Medium blue	150	0.25
	Service access (EB only)	Magenta	6	0.18
	Internal circulation (EB only)	White	7	0.18
	LRTline	Red	1	0.18
	Express rail link	Green	3	0.18
	Pedestrian way	Cyan	4	0.18
	Bicycle way	Blue	5	0.18
	Others (specify)	Orange	31	0.18
	Road cross-section	Brown	36	0.18
2	Infra: Drainage			
	Drainage catchment boundaries	Dark pink	222	0.35
	MD-reinforce concrete pipe culvert	Magenta	211	0.50
	MD-reinforce concrete box culvert	Dark red	242	0.35
	MD-open channel section	Medium red	240	0.25
	MD-covered drain	Red	1	0.18
	SD-reinforce concrete pipe culvert	Brown	44	0.50
	SD-reinforce concrete box culvert	Dark green	86	0.35
	SD-open channel section	Medium green	84	0.25
	SD-covered drain	Green	3	0.18
	TD-reinforce concrete pipe culvert (EB only)	Golden	43	0.50
	TD-reinforce concrete box culvert (EB only)	Dark yellow	54	0.35
	TD-open channel section (EB only)	Medium yellow	52	0.25
	TD-covered dDrain (EB only)	Yellow	2	0.18
	Sub-surface drain (EB only)	Brown	36	0.18
	Others (specify)	White	7	0.18
	Drainage cross-section line	Blue	5	0.18
3	Infra: Earthwork			
	Existing contour line	White	7	0.18
	Proposed contour line	Green	3	0.18
	Final platform level line	Dark pink	222	0.35
	Final slope line	Medium yellow	52	0.25
	Earthwork cross-section line	Medium cyan	133	0.25
	Temp earth drain line	Orange	31	0.25
	Others (specify)	Red	1	0.18
4	Utility: Water supply			
	Existing twin main	Dark cyan	134	0.35

No.	Line Elements	Colour	Colour Code	Line Width
	Diverted twin main	Dark green	86	0.35
	Trunk main	Medium blue	150	0.25
	Distribution main	Medium cyan	133	0.25
	Local / internal water reticulation (EB only)	Blue	5	0.18
	Others (specify)	White	7	0.18
5	Utility: Waste water (sewerage)			
	Sewer line	Brown	44	0.50
	Local / internal sewer line (EB only)	Dark red	242	0.35
	Others (specify)	White	7	0.18
6	Utility: Solid waste			
	Collection routing line	Dark magenta	214	0.35
	Others (specify)	White	7	0.18
7	Utility: power supply			
	Existing rentis TNB (LO only)	Magenta	211	0.50
	132KV cable line	Dark pink	222	0.35
	33KV cable line	Dark yellow	54	0.35
	11KV cable line	Medium pink	221	0.25
	LV cable line 240V (EB only)	Red	1	0.18
	LV cable line 415V (EB only)	Green	3	0.18
	Others (specify)	White	7	0.18
8	Utility: Telecom			
	Fibre main route	Dark green	86	0.35
	Fibre junction route	Medium green	84	0.25
	Local / internal cable line (EB only)	Green	3	0.18
	Telephone ducting line	Yellow	52	0.25
	Others (specify)	White	7	0.18
9	Utility: Gas supply			
	Multi-product reserve line (LO only)	Purple	203	0.50
	Petronas gas reserve line (LO only)	Dark pink	222	0.35
	Feeder line	Dark yellow	54	0.35
	Distributor line			
	High	Medium red	240	0.25
	Medium	Medium green	84	0.25
	Low	Medium cyan	133	0.25
	Local / internal gas pipeline (EB only)	Blue	5	0.18
	Others (specify)	White	7	0.18
10	Utility: Gas district cooling			
	Chilled water pipeline	Blue	150	0.25
	Local / internal chilled water pipeline (EBonly)	Blue	5	0.18
	Others (specify)	White	7	0.18
11	Utility: Common utility trench			
	Primary common utility trench	Dark yellow	54	0.35
	Secondary common utility trench	Medium yellow	52	0.25
	Tertiary common utility trench	Yellow	2	0.18
	Others (specify)	White	7	0.18
12a	Landscape conceptual plan (Layout only)			
	Hard landscape ILine			
	Pedestrian circulation	Brown	25	0.25
	Bicycle circulation	Medium yellow	52	0.25
	Landscape lighting	Medium pink	221	0.25

No.	Line Elements	Colour	Colour Code	Line Width
	Irrigation line	Green	3	0.18
	Pedestrian linkage line	Medium yellow	52	0.25
	Green corridor line	Medium blue	150	0.25
	Fencing line	Medium pink	221	0.25
	Landscape cross-section line	Magenta	6	0.18
	Others (specify)	White	7	0.18
12b.	Landscape master plan (EB only)			
	Landscape furniture			
	Bollards	Orange	31	0.25
	Wall	Red	1	0.18
	Fences	Red	240	0.25
	Gates	Dark magenta	214	0.35
	Guardrails	Blue	150	0.25
	Ballustrades	Dark yellow	54	0.35
	Railings	Brown	36	0.18
	Balluster	Pink	222	0.35
	Pedestral	Medium yellow	52	0.25
	Plinth	Blue	5	0.18
	Others (specify)	White	7	0.18
	Recreational facilities			
	Jogging	Medium cyan	133	0.25
	Skate track	Medium Magenta	212	0.25
	Others (specify)	White	7	0.18
	Pedestrian and cycle circulation line			
	Pedestrian line	Brown	25	0.25
	Cycle circulation line	Medium yellow	52	0.25
	Irrigation line	Green	3	0.18
	Landscape lighting	Medium pink	221	0.25
	Landscape cross-section line	Magenta	6	0.18
	Fencing line	Medium pink	221	0.25
	Others (specify)	White	7	0.18

11 Symbols Codes for Supporting Plans

All the symbol codes should be placed with in 5m from the symbol placement point and is optional. The size of the symbol should be adjusted as per Scale of the plan. Please see ESS2-Appendix A VIII for Symbols Representation.

No.	Utility Symbols	Symbol Code
1	Infra: Transportation	
	Access to parcel	TATPA
	Bridge	TTBRI
	Jetty (EB only)	TJETT
	Park ride location point	TPRLP
	Parking location point	TPPLP
	Pedestrian and cycle grade separated crossing	TPCSC
	Motorbike crossing	TMOCO
	Transportation hub/terminal point	TTHTP
	LRT station point	TLRTS
	Bus station point	TBSTN
	Taxi station point	TTSTN
	Bus stop point	TBSTP
	Taxi stop point	TTSTP
	Bus/taxi stop point	TPTSP
	Traffic Light	TRLIGT
	Others (specify)	TPTSP
2	Infra: Drainage	
	Gross pollutant trap point	UDGPA
	Drainage catchment outlet	UDDCO
	Drainage sump point	UDDSP
	Flow direction	UFLDI
	Oil & grease trap	UOGTR
	Upper catchment interfacing	UUCIN
	Others (specify)	UDOTH
3	Infra: Earthwork	
	Final slope	EFLSL
	Source of fill	ESOFI
	Stockpile location	ESTLO
	Site trap	ESITR
	Others (specify)	EWOTH
4	Utility: Water supply	
	Water treatment plant	UWWTP
	Proposed reservoir point	UWPRP
	Proposed water tank point	UWPWT
	Proposed water pump station point	UWPWS
	Man-hole point (EB only)	UWMHP
	Fire hydrant point (EB only)	UWFHP
	Others (specify)	UWOTH
5	Utility: Waste water (Sewerage)	
	STP	USSTP
	Main sewerage pumping station point	USMSP
	Sewerage pumping station point	USSPS

No.	Utility Symbols	Symbol Code
	Man-hole point (EB only)	USMHP
	Flow direction	USFDI
	Others (specify)	USOTH
6	Utility: Solid waste	
	Transfer stations	ULTST
	Drop off centre	ULDOC
	Bin house	ULBHO
	Stationary compactor (EB only)	ULSCO
	Bin centre collection (EB only)	ULBCC
	Kerb side collection (EB only)	ULKSC
	Others (specify)	ULOTH
7	Utility: Power supply	
	PMU location point	UPPMU
	PPU location point	UPPPU
	PE location point	UPPEL
	Compact PE location point	UPCLP
	Feeder pillar location point	UFPLP
	TNB rentice Pylon location point (LO only)	UTPLP
	Man-hole point (EB only)	UPMHP
	Others (specify)	UPOTH
8	Utility: Telecom	
	Satelite earth station	UTSES
	Radio site /tower	UTRSI
	Telecom exchange	UTEST
	Fibre distribution house	UTFDH
	Street cabinet	UTSCA
	Man-hole point (EB only)	UTMHP
	Others (specify)	UTOTH
9	Utility: Gas supply	
	District gas stations	UGDGS
	Area gas stations	UGAGS
	Man-hole point (EB only)	UGMHP
	Others (specify)	UGOTH
10	Utility: Gas district cooling	
	Gas district cooling plant	UCGDP
	Man-hole point (EB only)	UCMHP
	Others (specify)	UCOTH
11	Utility: Utility hub	
	Utility hub	UUTHU
12	Utility: Common utility trench	
	Primary junction chamber	UJPJC
	Secondary junction chamber	UJSJC

No.	Utility Symbols	Symbol Code
	Tertiary junction chamber	UJTJC
	Maintenance access to Primary CUT	UMAPC
	Maintenance access to Secondary CUT	UMASC
	Maintenance access to Tertiary CUT	UMATC
	Others (specify)	UCUOT
13a	Landscape conceptual plan (Layout only)	
	Hard landscape symbol	
	Recreational facilities	CHRFA
	Signages	CHSIG
	Fencing	CHFEN
	Landscape furniture	CHLAF
	Water features	CHWAF
	Landscape lighting	CNISY
	Others (specify)	CLOTH
13b	Landscape master plan (EB only)	
	Soft landscape (planting design) By categories & species	
	Tree	MSLTR
	Palm	MSLPA
	Shrub	MSLSH
	Ground cover	MSLGC
	Climber	MSLCL
	Turf	MSLTU
	Others (specify)	MPOTH
	Hard landscape	
	Recreational facilities	
	Children playground	MHLCP
	Physical fitness station	MHLPF
	Jogging track	MHLJT
	Roller skate track/ In-line skate	MHLRS
	Picnic area	MHLPA
	Camping site	MHLCS
	Play court	MHLPC
	Football field	MHLFF
	Remote cControl field	MHLRC
	Fishing jetty	MHLFJ
	Others (specify)	MROTH
	Landscape furniture	
	Benches /seat wall	MLFBS
	Planter boxes / hanging basket / flower troughs / urns	MLFPB
	Waste receptacle / litter bins / trash cans /	MLFWR
	Structures	MLFST
	Sculptural object	MLFSO
	Planting accessories	MLFPA
	Flagpoles / clocks / banners / flaglines	MLFFL
	Step	MLFSP
	Stairs	MLFSR
	Ramps	MLFRA

No.	Utility Symbols	Symbol Code
	Edging & kerbs	MLFEK
	Services/ utilities	MLSUT
	Drinking fountain	MLDRF
	Others (specify)	MFOTH
	Water features	
	Lakeside / riverside	MALAK
	Ponds/ pools	MAPON
	Stream /canal	MASTR
	Cascade / waterfalls	MACAS
	Water sculptures	MAWSC
	Basins	MABAS
	Water mills	MAWMI
	Bubble / shooting fountain	MABUB
	Musical / symphony fountain	MAMUS
	Message fountain	MAMES
	Monumental fountain	MAMON
	Sculptural fountain	MASCU
	Others (specify)	MWOTH
	Pedestrian and bicycle cCirculation	
	Circulation flow/assessibility	MACIR
	Pedestrian paths	MAPED
	Cycle paths	MACPA
	Signage & advertisement	
	Identification sign (ID)	SAIS
	Pedestrian sign (ID)	SAPS
	Vehicular sign (V)	SAVS
	Promotion sign (AF)	SAPR
	Other signs at parks, garden squares, streetscapes and	SAOT
	Fencing	FENC
	Landscape lighting	
	Outdoor/garden lighting	MNOUT
	Others (specify)	MLOTH
	Irrigation	
	Water source	MWS
	Inner / outer reticulation system	MIRET
	Irrigation system (tap / tap point / quick coupling / standpipe)	MISYS
	Semi automated / automated irrigation system	MISAS
	Movable pulsatar/ rotary sprinkler	MIMPU
	Sprinklar system	MISPS
	Drip irrigation	MIDRI
	Programmable logic controller / control panel	MIPLC
	Rain sensor/ lighting arrester	MIRS
	Cabling work (M&E)	MICW
	Pump house	MIPH
	Others (specify)	MIOTH

Note: Colour for each symbol for supporting plans is based on land use colour code, except for Layout Plan, Erection of Building and Erection of Temporary Building where symbols are represented by outline only.