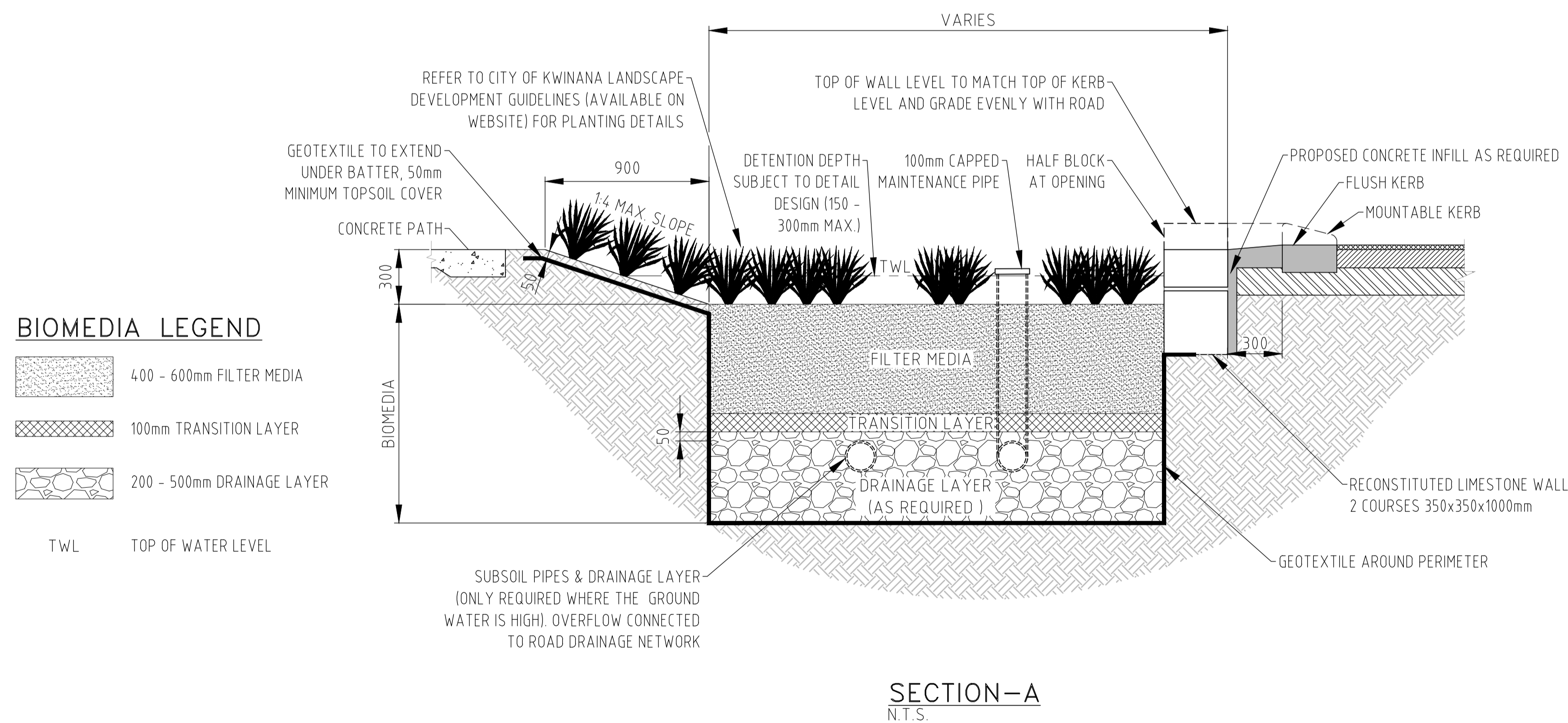
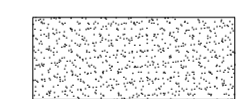
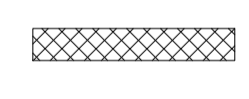
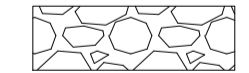


TYPICAL RAIN GARDEN LAYOUT
N.T.S.



BIOMEDIA LEGEND

-  400 - 600mm FILTER MEDIA
-  100mm TRANSITION LAYER
-  200 - 500mm DRAINAGE LAYER

TWL TOP OF WATER LEVEL

SECTION-A
N.T.S.

NOTES:

1. FILTER MEDIA TO BE EITHER AN ENGINEERED MATERIAL (WASHED WELL GRADED SAND, ALL PARTICLE SIZE CLASSES SHOULD BE REPRESENTED ACROSS ALL SIEVE SIZES FROM 0.05mm TO 3.4mm) OR NATURALLY OCCURRING SAND.
2. FILTER MEDIA TO HAVE A DESIGNED SATURATED HYDRAULIC CONDUCTIVITY BETWEEN 100mm/hr AND 300mm/hr, WITH A SAFETY MARGIN (ASSUMING AFTER ESTABLISHMENT AND MAINTENANCE PERIOD OF 2 YEARS) A FINAL HYDRAULIC CONDUCTIVITY OF BETWEEN 33% AND 50% OF THE DESIGN VALUE.
3. TRANSITION LAYER TO BE CLEAN WELL GRADED SAND (A2 FILTER SAND 0 - 9.5mm OR EQUIVALENT) WITH HYDRAULIC CONDUCTIVITY HIGHER THAN THAT OF THE FILTER MEDIA.
4. 15% OF SAND PARTICLES OF THE TRANSITION LAYER MUST BRIDGE WITH THE LARGEST 15% OF THE FILTER MEDIA PARTICLES.
5. DRAINAGE LAYER TO BE CLEAN FINE AGGREGATE (2-7mm WASHED SCREENINGS) WITH HYDRAULIC CONDUCTIVITY HIGHER THAN THAT OF THE TRANSITION LAYER.
6. SUBSOIL PIPE MUST HAVE PERFORATIONS SMALLER THAN THE DRAINAGE LAYER PARTICLE SIZE OR BE WRAPPED IN FILTER CLOTH
7. RAIN GARDENS IDEALLY LOCATED ON SIDE BOUNDARIES AND SIDE OF ROAD WITHOUT PATHS.

REV	DATE	DESCRIPTION	DRAWN
E	11/22	RETAINING ADJACENT TO ROAD SIDE ONLY	J.M
D	11/22	SUBSOIL DRAINAGE ADDED & FURTHER NOTES REGARDING BIOMEDIA	J.M
C	06/22	FILTER MEDIA & PLANTING NOTES ADDED	J.M
B	06/19	REVIEW COMPLETED & DRAFTING AMENDMENTS MADE	J.M
A	07/18	ADOPTED BY CITY OF KWINANA	J.M

ASSOCIATE CONSULTANT:	
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PROJECT:	STANDARD DETAILS RAIN GARDEN	
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SCALE:	N.T.S (A1)
DESIGN:	P.B
CHECK:	P.B
DRAWN:	J.M
DATE:	07/18
AUTHORISED (MANAGER ENGINEERING SERVICES)	

DRAWING TITLE:	STANDARD DETAILS RAIN GARDEN	
FILE NO.:	ENG03	
DRAWING NUMBER:	STD-D10	REVISION:
		E