AMENDED PLANTING SOIL MIX SPECIFICATIONS

1. AMENDED PLANTING SOIL MIX SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   a. 60% LOAMY SAND AND 40% COMPOST.
   b. ORGANIC CONTENT MATTER FROM 5–8% BY WEIGHT
   c. CATION EXCHANGE CAPACITY (CEC) GREATER THAN OR EQUAL TO 5 MILLIEQUIVALENTS/100 GRAMS OF DRY SOIL
   d. 2–5% MINERAL FINES CONTENT
   e.

US STANDARD SIEVE SIZE	PERCENT PASSING
3/8"	100
#4	95–100
#10	75–90
#40	25–40
#100	4–10
#200	2–5

   MINIMUM LONG–TERM HYDRAULIC CONDUCTIVITY OF 1 INCH/HOUR PER ASTM D2434 AT 85% COMPACTION PER ASTM D 1557.
   f. MAXIMUM IMMEDIATE HYDRAULIC CONDUCTIVITY OF 12 INCHES/HOUR.
2. AMENDED PLANTING SOIL MIX MAY BE CREATED BY TESTING ON–SITE NATIVE SOILS AND MIXING MATERIALS FROM OFF–SITE AS NEEDED TO ACHIEVE THE CHARACTERISTICS DESCRIBED IN NOTE 1 ABOVE.
3. AMENDED PLANTING SOIL MIX SHOULD BE UNIFORMLY MIXED WITH A SOIL MIXER.
4. PLACEMENT OF AMENDED PLANTING SOIL MIX SHALL OCCUR PER THE FOLLOWING GUIDELINES:
   a. PLACE SOIL IN 12" LIFTS, KEEPING MACHINERY OUTSIDE OF INFILTRATION AREA.
   b. DO NOT PLACE SOILS IF SATURATED.
   c. COMPACT EACH LIFT WITH WATER OR BOOT PACKING UNTIL JUST SATURATED TO 85% COMPACTION. DO NOT COMPACT WITH HEAVY MACHINERY OR VIBRATORY COMPACTION.

	PONDING DEPTH	SOIL DRAINAGE RATES				
		0.01–0.24 IN/HR	0.25–0.49 IN/HR	0.50–0.99 IN/HR	1.00–2.49 IN/HR	2.50+ IN/HR
GOOD	6"–12"	19%	12%	10%	7%	6%
BETTER	6"–12"	29%	18%	14%	11%	8%
BEST	6"	54%	43%	34%	27%	18%
	12"	NA	36%	31%	25%	17%

NOTE:

SIZE THE TOP SURFACE OF THE PONDING AREA FOR THE RAIN GARDEN BY MULTIPLYING THE CONTRIBUTING AREA BY THE ABOVE PERCENTAGES.

N.T.S.

INFILTRATION RAIN GARDEN WITH PLANTING SOIL (2)

STANDARD DETAIL

THE CITY OF BATTLE GROUND

CITY OF BATTLE GROUND
APPROVED

Mark Henrey 06/11/2018

CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:
1	01/23/17	KDU	KDU
2	02/09/17	CAS	KDU

ST–13.04