بسم الله الرحمن الرحيم

ދިވެހިރާජ ގެزێට

ނަންބަރ: 50 ބާބަން: 36 ތާریخ: 29 ދާދަރުވެރިން 1442 - 11 ފެब्रުވަरி 2021 ހުކުން

ވަގުތީ ބަންދުކުރުން 2021/R-22

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ދިވެހިރާජ އެޓަރ ジنرަލްގެ ކާރިޔާ
ބަންދަރުން ބަންދުކުރުން
ދާދި، ދިވެހިރާජެއް

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بسم الله الرحمن الرحيم

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1. ﷺ (ﷺ 8/2020 ﷺ) ﷺ 17، 18، 19، 20 ﷺ 23 ﷺ ﷺ 26/2020 (ﷺ ﷺ) ﷺ 20 ﷺ ﷺ 8/2020 (ﷺ ﷺ) ﷺ 58 ﷺ (ﷺ) ﷺ ﷺ ﷺ، ﷺ ﷺ.

2. ﷺ "ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ" ﷺ.

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(ބ) ބަންދުކުރެވިފައިވާ ބަންދުކުރެއްވުމުގައި، ހެން ބަދަލު ކުރެވިދާނެ ބިން ބަދަލުކުރެވިދާނެ ބިން ދިވެހި ރައްޔިތުންގެ ދިރިއުސްކަން ބަދަލުކުރެވިދާ ބަދަލުކުރެވިދާ ބަދަލުކުރެވިދާ.

(ރ) ބަދަލުކުރެވިދާ ބިން ދިރިއުސްކުރާ ބިން ބަދަލުކުރުން 10,000 (ދިހަހާސް) ބަދަލުވެގެން ބަދަލުކުރެވިދާ ބަދަލުކުރެއްވުމަށް، ބަދަލުވެދިން ކުރެއްވުން ކަމަށް ބަދަލުކުރެއްވުން ކަން ބަދަލުކުރެއްވުން ބަދަލުކުރެއްވުން ބަދަލުކުރެއްވުން ބަދަލުކުރެއްވުން ،ބަދަލުގައި ،ބަދަލުގައި ،ބަދަލުގައި ،ބަދަ ،ބ ،ب ،ب ،ب

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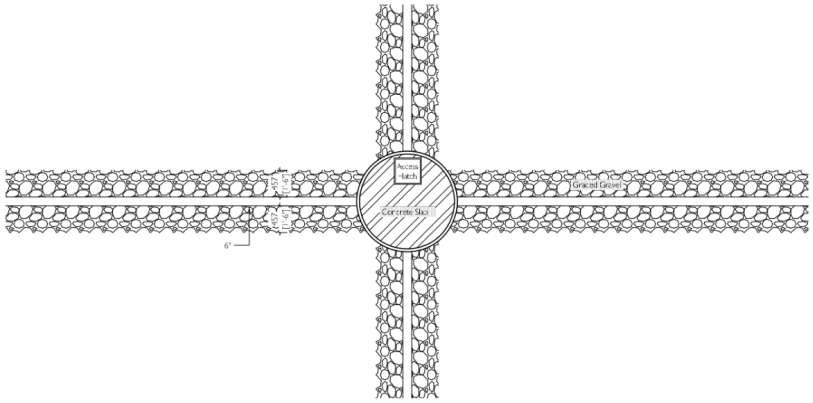
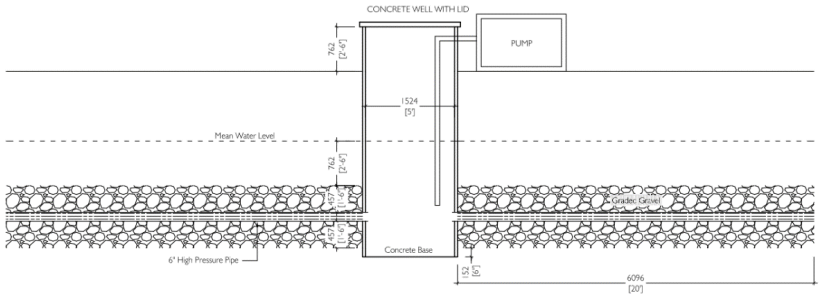
ﷺ 1: ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ

Infiltration Gallery Design Template



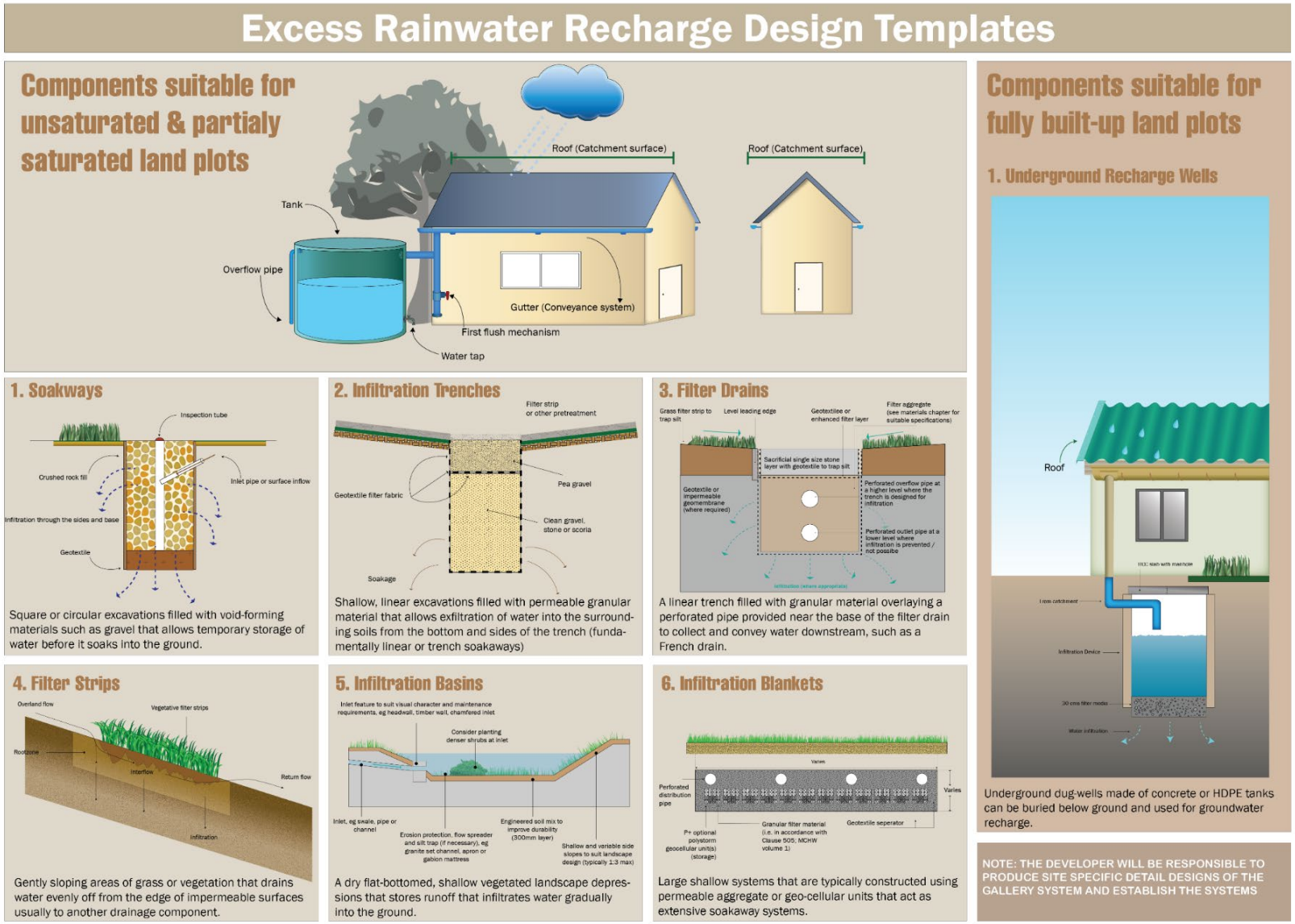
INFILTRATION GALLERY (TOP VIEW)
NTS



INFILTRATION GALLERY (REAR VIEW)
NTS

NOTE: THE DEVELOPER WILL BE RESPONSIBLE TO PRODUCE SITE SPECIFIC DETAIL DESIGNS OF THE GALLERY SYSTEM AND ESTABLISH THE SYSTEMS

ﷺ 2: ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ


Excess Rainwater Recharge Design Templates
Components suitable for unsaturated & partialy saturated land plots
Roof (Catchment surface)
Roof (Catchment surface)
Tank
Overflow pipe
Gutter (Conveyance system)
First flush mechanism
Water tap
1. Soakways
Inspection tube
Crushed rock fill
Inlet pipe or surface inflow
Infiltration through the sides and base
Geotextile
Square or circular excavations filled with void-forming materials such as gravel that allows temporary storage of water before it soaks into the ground.
2. Infiltration Trenches
Filter strip or other pretreatment
Geotextile filter fabric
Pea gravel
Clean gravel, stone or scoria
Soakage
Shallow, linear excavations filled with permeable granular material that allows exfiltration of water into the surrounding soils from the bottom and sides of the trench (fundamentally linear or trench soakaways)
3. Filter Drains
Grass filter strip to trap silt
Level leading edge
Geotextilee or enhanced filter layer
Filter aggregate (see materials chapter for suitable specifications)
Sacrificial single size stone layer with geotextile to trap silt
Geotextile or impermeable geomembrane (where required)
Perforated overflow pipe at a higher level where the trench is designed for infiltration
Perforated outlet pipe at a lower level where infiltration is prevented / not possibe
A linear trench filled with granular material overlaying a perforated pipe provided near the base of the filter drain to collect and convey water downstream, such as a French drain.
4. Filter Strips
Overland flow
Vegetative filter strips
Rootzone
Interflow
Return flow
Infiltration
Gently sloping areas of grass or vegetation that drains water evenly off from the edge of impermeable surfaces usually to another drainage component.
5. Infiltration Basins
Inlet feature to suit visual character and maintenance requirements, eg headwall, timber wall, chamfered inlet
Consider planting denser shrubs at inlet
Inlet, eg swale, pipe or channel
Erosion protection, flow spreader and silt trap (if necessary), eg granite set channel, apron or gabion mattress
Engineered soil mix to improve durability (300mm layer)
Shallow and variable side slopes to suit landscape design (typically ±:3 max)
A dry flat-bottomed, shallow vegetated landscape depressions that stores runoff that infiltrates water gradually into the ground.
6. Infiltration Blankets
Varies
Perforated distribution pipe
Varies
P+ optional polystorm geocellular unit(s) (storage)
Granular filter material (i.e. in accodance with Clause 505; MCHW volume 1)
Geotextile seperator
Large shallow systems that are typically constructed using permeable aggregate or geo-cellular units that act as extensive soakaway systems.
Components suitable for fully built-up land plots
1. Underground Recharge Wells
Roof
Infiltration Device
Water infiltration
Underground dug-wells made of concrete or HDPE tanks can be buried below ground and used for groundwater recharge.
NOTE: THE DEVELOPER WILL BE RESPONSIBLE TO PRODUCE SITE SPECIFIC DETAIL DESIGNS OF THE GALLERY SYSTEM AND ESTABLISH THE SYSTEMS

ﷺ 3: ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ ﷺ

Parameters	Units	Permisible Limits
Faecal coliforms	CFU/100ml	0
E. coli	Org/100ml	0
Suspended solids	mg/l	15
Residual chlorine	mg/l	0.8
Temperature	°C	Not more than 3°C above the receiving water
pH	-	6-9
Nitrates as N	mg/l	6
Free ammonia as NH3	mg/l	5
Ortho-phosphate as P	mg/l	1
Surfactants	mg/l	10
Electrical Conductivity	µS/cm	Equal or less than receiving groundwater
oils and grease (food related)	mg/l	5
Oils, grease and waxes (mineral origin)	mg/l	1
Hydrocarbons (fuel origins)	mg/l	0
Chemical Oxygen Demand (5days)	mg/l	5
Biological Oxygen Demand (5days)	mg/l	5
Dissolved Oxygen	-	75% air saturation
Phenolic compounds as Phenol	mg/l	1
Arsenic as As	mg/l	0.05
Calcium as Ca	mg/l	80

Cyanides as Cn	mg/l	0.5
Chloride as Cl	mg/l	200
Sulphides as S	mg/l	0.05
Sulphates as SO4	mg/l	250
Fluoride as F	mg/l	1
Sodium as Na	mg/l	200
Zinc ad Zn	mg/l	5
Cadmium as Cd	mg/l	0.005
Mercury as Hg	mg/l	0.02
Selenium as Se	mg/l	0.05
Nickel as Ni	mg/l	1
Boron as B	mg/l	0.5
Hexavalent Chromium as Cr	mg/l	0.05
Total Chromium as Cr	mg/l	0.5
Copper as Cu	mg/l	1
Lead as Pb	mg/l	0.1
Iron as Fe	mg/l	1
Manganese as Mn	mg/l	0.1
Magnesium as Mg	mg/l	100
Aluminium as Al	mg/l	0.3
Sum of metals	mg/l	1
Acute toxicity	-	Zero

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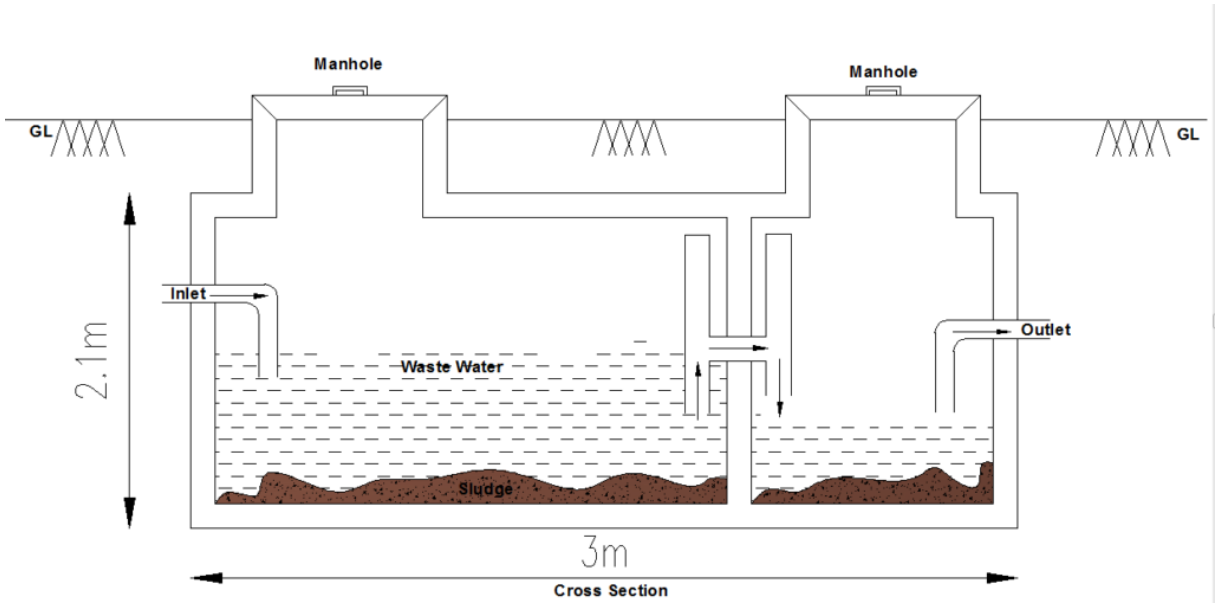

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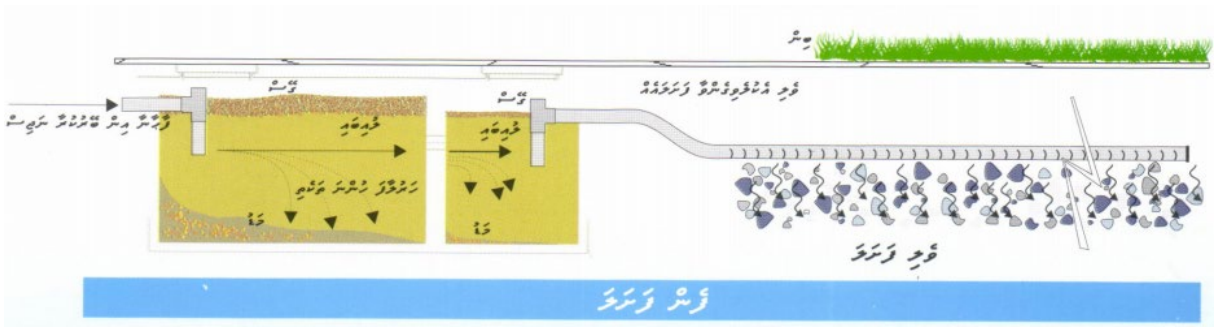

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