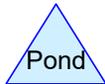


Subcat



Reach



Pond



Link

Routing Diagram for 317AI-00_Pre-Development Model - EIS SITE B

Prepared by {enter your company name here}, Printed 2/12/2020
 HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Summary for Subcatchment S-1:

Runoff = 2.46 cfs @ 11.97 hrs, Volume= 0.117 af, Depth= 1.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-year Rainfall=2.21"

Area (sf)	CN	Description
23,004	98	Paved parking, HSG A
3,450	98	Paved parking, HSG D
18,849	80	>75% Grass cover, Good, HSG D
45,303	91	Weighted Average
18,849	80	41.61% Pervious Area
26,454	98	58.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Summary for Subcatchment S-2:

Runoff = 2.24 cfs @ 11.98 hrs, Volume= 0.104 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-year Rainfall=2.21"

Area (sf)	CN	Description
16,652	98	Paved parking, HSG D
26,863	79	Woods/grass comb., Good, HSG D
17,338	80	>75% Grass cover, Good, HSG D
60,853	84	Weighted Average
44,201	79	72.64% Pervious Area
16,652	98	27.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Summary for Subcatchment S-3:

Runoff = 10.10 cfs @ 11.98 hrs, Volume= 0.475 af, Depth= 0.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-year Rainfall=2.21"

Area (sf)	CN	Description
115,489	98	Paved parking, HSG D
3,428	98	Paved parking, HSG A
29,447	32	Woods/grass comb., Good, HSG A
153,865	79	Woods/grass comb., Good, HSG D
13,551	39	>75% Grass cover, Good, HSG A
42,065	80	>75% Grass cover, Good, HSG D
357,845	80	Weighted Average
238,928	71	66.77% Pervious Area
118,917	98	33.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 Predvlp

Type II 24-hr 1-year Rainfall=2.21"

Printed 2/12/2020

Page 5

Summary for Pond DP-1: Western Avenue

Inflow Area = 2.437 ac, 40.61% Impervious, Inflow Depth = 1.09" for 1-year event
Inflow = 4.70 cfs @ 11.97 hrs, Volume= 0.221 af
Primary = 4.70 cfs @ 11.97 hrs, Volume= 0.221 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 Predvlp

Type II 24-hr 1-year Rainfall=2.21"

Printed 2/12/2020

Page 6

Summary for Pond DP-2: Crossgates Mall Rd

Inflow Area = 8.215 ac, 33.23% Impervious, Inflow Depth = 0.69" for 1-year event
Inflow = 10.10 cfs @ 11.98 hrs, Volume= 0.475 af
Primary = 10.10 cfs @ 11.98 hrs, Volume= 0.475 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 Predvlp

Type II 24-hr 10-year Rainfall=3.74"

Printed 2/12/2020

Page 7

Summary for Subcatchment S-1:

Runoff = 4.86 cfs @ 11.97 hrs, Volume= 0.240 af, Depth= 2.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-year Rainfall=3.74"

Area (sf)	CN	Description
23,004	98	Paved parking, HSG A
3,450	98	Paved parking, HSG D
18,849	80	>75% Grass cover, Good, HSG D
45,303	91	Weighted Average
18,849	80	41.61% Pervious Area
26,454	98	58.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 PredVlp

Type II 24-hr 10-year Rainfall=3.74"

Printed 2/12/2020

Page 8

Summary for Subcatchment S-2:

Runoff = 5.30 cfs @ 11.97 hrs, Volume= 0.250 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-year Rainfall=3.74"

Area (sf)	CN	Description
16,652	98	Paved parking, HSG D
26,863	79	Woods/grass comb., Good, HSG D
17,338	80	>75% Grass cover, Good, HSG D
60,853	84	Weighted Average
44,201	79	72.64% Pervious Area
16,652	98	27.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 PredVlp

Type II 24-hr 10-year Rainfall=3.74"

Printed 2/12/2020

Page 9

Summary for Subcatchment S-3:

Runoff = 26.87 cfs @ 11.97 hrs, Volume= 1.252 af, Depth= 1.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-year Rainfall=3.74"

Area (sf)	CN	Description
115,489	98	Paved parking, HSG D
3,428	98	Paved parking, HSG A
29,447	32	Woods/grass comb., Good, HSG A
153,865	79	Woods/grass comb., Good, HSG D
13,551	39	>75% Grass cover, Good, HSG A
42,065	80	>75% Grass cover, Good, HSG D
357,845	80	Weighted Average
238,928	71	66.77% Pervious Area
118,917	98	33.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 Predvlp

Type II 24-hr 10-year Rainfall=3.74"

Printed 2/12/2020

Page 10

Summary for Pond DP-1: Western Avenue

Inflow Area = 2.437 ac, 40.61% Impervious, Inflow Depth = 2.41" for 10-year event
Inflow = 10.16 cfs @ 11.97 hrs, Volume= 0.490 af
Primary = 10.16 cfs @ 11.97 hrs, Volume= 0.490 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

317AI-00__Pre-Development Model - EIS SITE 3

Prepared by {enter your company name here}

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

317AI.00 Site 3 Predvlp

Type II 24-hr 10-year Rainfall=3.74"

Printed 2/12/2020

Page 11

Summary for Pond DP-2: Crossgates Mall Rd

Inflow Area = 8.215 ac, 33.23% Impervious, Inflow Depth = 1.83" for 10-year event
Inflow = 26.87 cfs @ 11.97 hrs, Volume= 1.252 af
Primary = 26.87 cfs @ 11.97 hrs, Volume= 1.252 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

317AI-00__Pre-Development Model - EIS SITE 3

317AI.00 Site 3 Predvlp
 Type II 24-hr 100-year Rainfall=6.34"

Prepared by {enter your company name here}

Printed 2/12/2020

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Page 12

Summary for Subcatchment S-1:

Runoff = 8.90 cfs @ 11.97 hrs, Volume= 0.459 af, Depth= 5.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Type II 24-hr 100-year Rainfall=6.34"

Area (sf)	CN	Description
23,004	98	Paved parking, HSG A
3,450	98	Paved parking, HSG D
18,849	80	>75% Grass cover, Good, HSG D
45,303	91	Weighted Average
18,849	80	41.61% Pervious Area
26,454	98	58.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

317AI.00 Site 3 Predvlp
Type II 24-hr 100-year Rainfall=6.34"

Prepared by {enter your company name here}

Printed 2/12/2020

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Page 13

Summary for Subcatchment S-2:

Runoff = 10.76 cfs @ 11.97 hrs, Volume= 0.526 af, Depth= 4.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-year Rainfall=6.34"

Area (sf)	CN	Description
16,652	98	Paved parking, HSG D
26,863	79	Woods/grass comb., Good, HSG D
17,338	80	>75% Grass cover, Good, HSG D
60,853	84	Weighted Average
44,201	79	72.64% Pervious Area
16,652	98	27.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

317AI.00 Site 3 Predvlp
Type II 24-hr 100-year Rainfall=6.34"

Prepared by {enter your company name here}

Printed 2/12/2020

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Page 14

Summary for Subcatchment S-3:

Runoff = 58.47 cfs @ 11.97 hrs, Volume= 2.800 af, Depth= 4.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-year Rainfall=6.34"

Area (sf)	CN	Description
115,489	98	Paved parking, HSG D
3,428	98	Paved parking, HSG A
29,447	32	Woods/grass comb., Good, HSG A
153,865	79	Woods/grass comb., Good, HSG D
13,551	39	>75% Grass cover, Good, HSG A
42,065	80	>75% Grass cover, Good, HSG D
357,845	80	Weighted Average
238,928	71	66.77% Pervious Area
118,917	98	33.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

317AI-00__Pre-Development Model - EIS SITE 3

317AI.00 Site 3 Predvlp
Type II 24-hr 100-year Rainfall=6.34"

Prepared by {enter your company name here}

Printed 2/12/2020

HydroCAD® 10.00-25 s/n 00927 © 2019 HydroCAD Software Solutions LLC

Page 15

Summary for Pond DP-1: Western Avenue

Inflow Area = 2.437 ac, 40.61% Impervious, Inflow Depth = 4.85" for 100-year event
Inflow = 19.66 cfs @ 11.97 hrs, Volume= 0.984 af
Primary = 19.66 cfs @ 11.97 hrs, Volume= 0.984 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Pond DP-2: Crossgates Mall Rd

Inflow Area = 8.215 ac, 33.23% Impervious, Inflow Depth = 4.09" for 100-year event
Inflow = 58.47 cfs @ 11.97 hrs, Volume= 2.800 af
Primary = 58.47 cfs @ 11.97 hrs, Volume= 2.800 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs