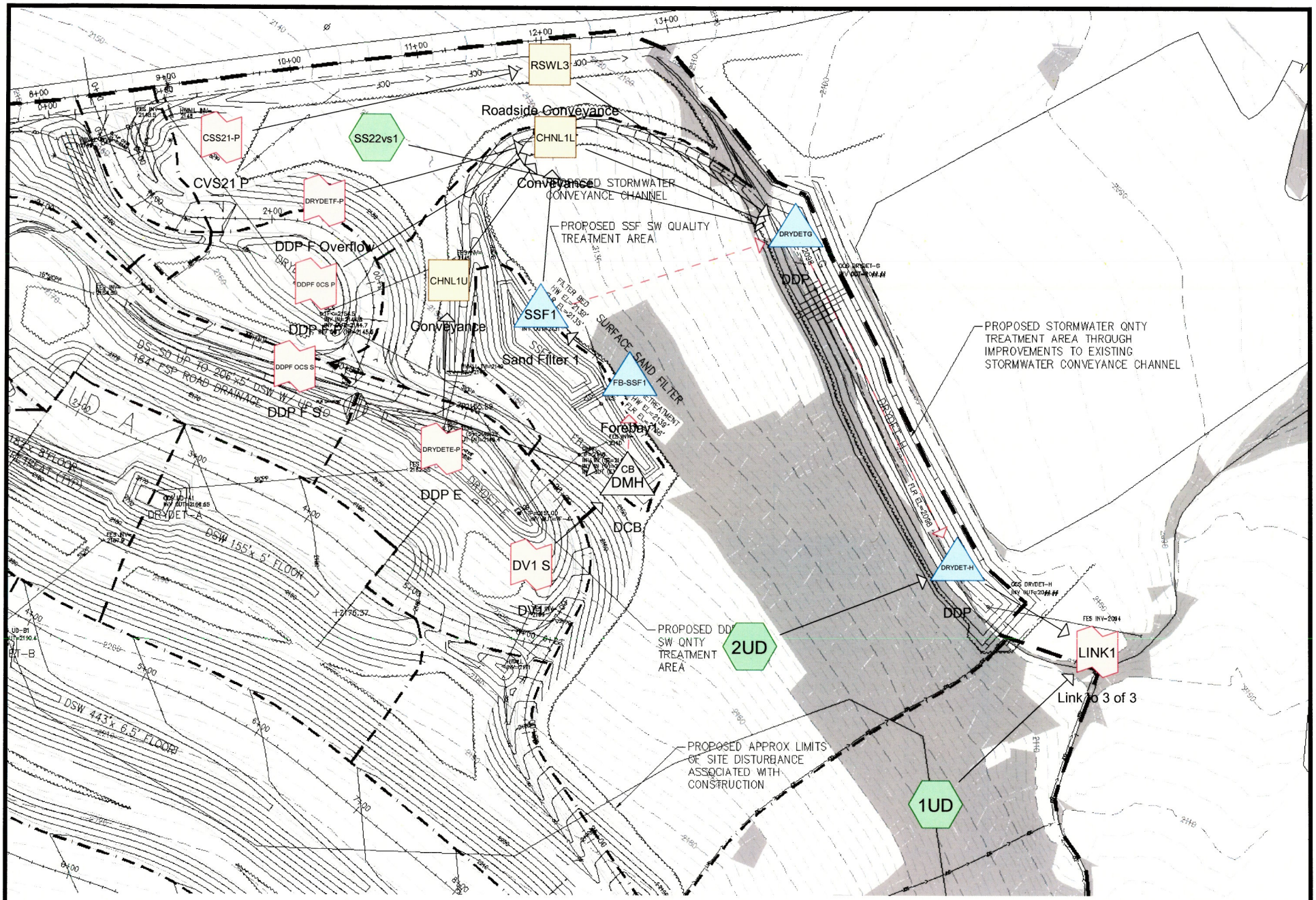

Drainage Diagram for PR Upper Discovery Parking TIER A-D 2of3

Prepared by NYSDEC DOP BD&C, Printed 3/23/2011

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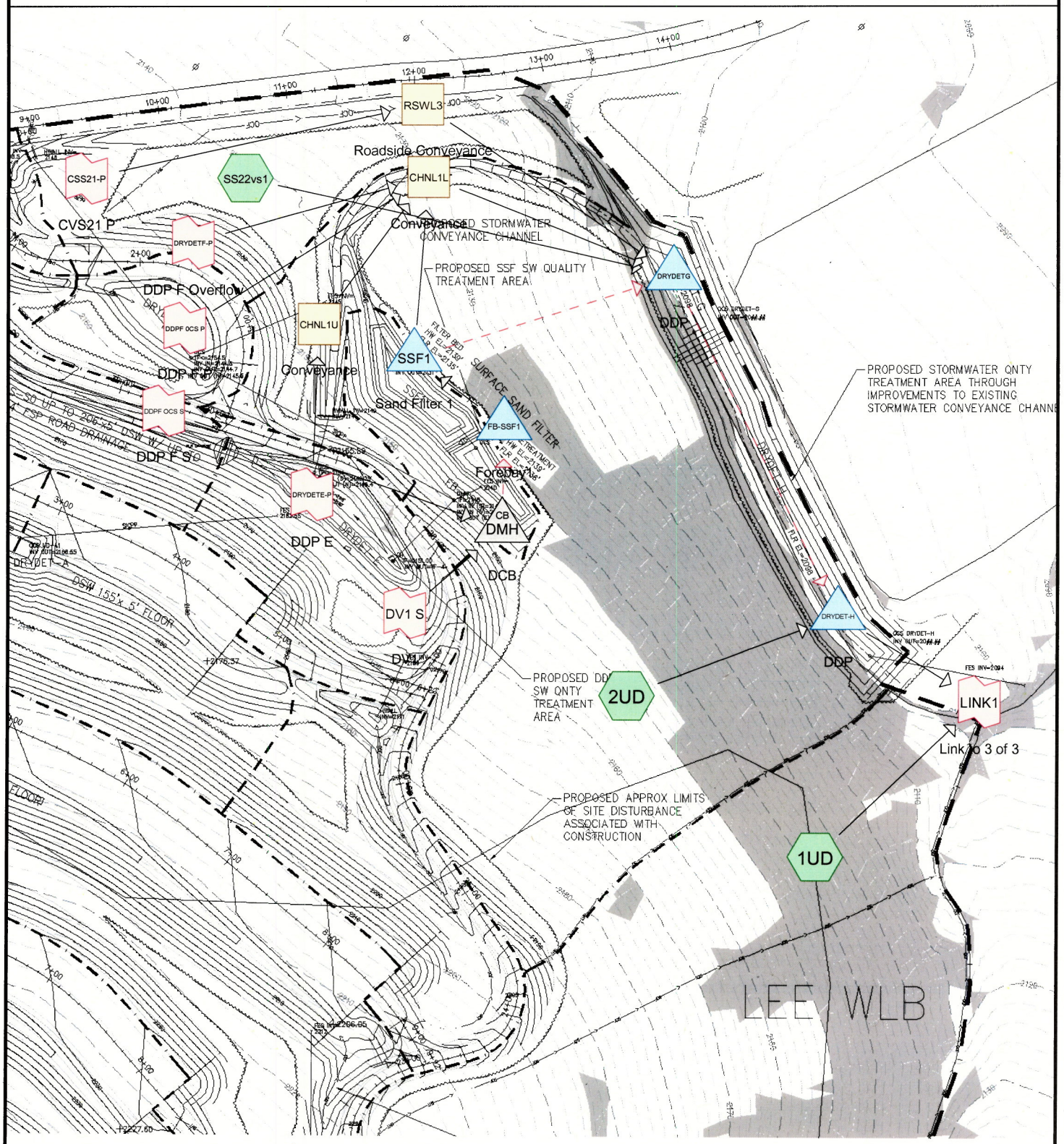

Drainage Diagram for PR Upper Discovery Parking TIER A-D 2of3
Prepared by NYSDEC DOP BD&C, Printed 3/23/2011
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
6.338	70	Woods, Good, HSG C (1UD,2UD,SS22vs1)
1.487	74	Pasture/grassland/range, Good, HSG C (1UD,2UD,SS22vs1)
0.200	98	Paved Parking and Svc Roads (1UD,SS22vs1)
8.025		**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Goup	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
7.825	HSG C	1UD, 2UD, SS22vs1
0.000	HSG D	
0.200	Other	1UD, SS22vs1
8.025		**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1UD: Runoff Area=160,248 sf 1.83% Impervious Runoff Depth=2.90"
Flow Length=559' Tc=19.7 min CN=71 Runoff=11.92 cfs 0.889 af

Subcatchment 2UD: Runoff Area=147,675 sf 0.00% Impervious Runoff Depth=2.90"
Flow Length=362' Tc=15.7 min CN=71 Runoff=12.43 cfs 0.819 af

Subcatchment SS22vs1: Runoff Area=41,650 sf 13.82% Impervious Runoff Depth=3.38"
Flow Length=482' Tc=16.1 min CN=76 Runoff=4.04 cfs 0.269 af

Reach CHNL1L: Conveyance Avg. Depth=0.48' Max Vel=5.92 fps Inflow=15.50 cfs 3.197 af
n=0.050 L=280.0' S=0.1375 '/' Capacity=124.29 cfs Outflow=15.49 cfs 3.196 af

Reach CHNL1U: Conveyance Avg. Depth=0.58' Max Vel=4.27 fps Inflow=12.65 cfs 2.749 af
n=0.050 L=137.0' S=0.0547 '/' Capacity=63.81 cfs Outflow=12.65 cfs 2.749 af

Reach RSWL3: Roadside Conveyance Avg. Depth=0.44' Max Vel=5.17 fps Inflow=6.03 cfs 0.233 af
n=0.040 L=536.0' S=0.0877 '/' Capacity=545.23 cfs Outflow=5.97 cfs 0.233 af

Pond DMH: DCB Peak Elev=2,142.80' Inflow=5.08 cfs 0.896 af
12.0" x 23.0' Culvert Outflow=5.08 cfs 0.896 af

Pond DRYDET-H: DDP Peak Elev=2,103.83' Storage=45,577 cf Inflow=22.14 cfs 4.957 af
Outflow=13.23 cfs 4.937 af

Pond DRYDETG: DDP Peak Elev=2,103.62' Storage=11,781 cf Inflow=19.84 cfs 4.140 af
Outflow=19.10 cfs 4.138 af

Pond FB-SSF1: Forebay1 Peak Elev=2,139.79' Storage=3,290 cf Inflow=5.08 cfs 0.896 af
Outflow=5.07 cfs 0.894 af

Pond SSF1: Sand Filter 1 Peak Elev=2,139.25' Storage=10,083 cf Inflow=5.07 cfs 0.894 af
Primary=2.85 cfs 0.448 af Secondary=0.20 cfs 0.441 af Outflow=3.06 cfs 0.889 af

Link Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond CVS21.hce Inflow=6.03 cfs 0.233 af
Area= 2.521 ac 8.99% Imperv. Primary=6.03 cfs 0.233 af

Link Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDPF OCS.hce Inflow=0.00 cfs 0.000 af
Primary=0.00 cfs 0.000 af

Link Q10 Secondary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDPF OCS.hce Inflow=2.25 cfs 0.540 af
Primary=2.25 cfs 0.540 af

Link Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDP E.hce Inflow=12.65 cfs 2.749 af
Area= 12.852 ac 9.00% Imperv. Primary=12.65 cfs 2.749 af

Link Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDP F.hce Inflow=0.00 cfs 0.000 af
Area= 0.340 ac 22.36% Imperv. Primary=0.00 cfs 0.000 af

Link Q10 Secondary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DV1.hce Inflow=2.93 cfs 0.356 af
Primary=2.93 cfs 0.356 af

Link LINK1: Link to 3 of 3 Inflow=14.71 cfs 5.826 af
Primary=14.71 cfs 5.826 af

Total Runoff Area = 8.025 ac Runoff Volume = 1.977 af Average Runoff Depth = 2.96"
97.51% Pervious = 7.825 ac 2.49% Impervious = 0.200 ac

Summary for Subcatchment 1UD:

Runoff = 11.92 cfs @ 12.13 hrs, Volume= 0.889 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr Q10 Rainfall=6.00"

	Area (sf)	CN	Description
	13,143	74	Pasture/grassland/range, Good, HSG C
*	2,938	98	Paved Parking and Svc Roads
	144,167	70	Woods, Good, HSG C
	160,248	71	Weighted Average
	157,310		Pervious Area
	2,938		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	100	0.1400	0.11		**Sheet Flow, SHT** Woods: Dense underbrush n= 0.800 P2= 4.00"
4.2	314	0.2516	1.25		**Shallow Concentrated Flow, SCF** Forest w/Heavy Litter Kv= 2.5 fps
0.1	145	0.0965	21.17	1,016.36	**Trap/Vee/Rect Channel Flow, OCF STR** Bot.W=8.00' D=4.00' Z= 1.0 '/' Top.W=16.00' n= 0.040 Mountain streams
19.7	559	Total			

Summary for Subcatchment 2UD:

Runoff = 12.43 cfs @ 12.08 hrs, Volume= 0.819 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr Q10 Rainfall=6.00"

	Area (sf)	CN	Description
	31,844	74	Pasture/grassland/range, Good, HSG C
*	0	98	Paved Parking and Svc Roads
	115,831	70	Woods, Good, HSG C
	147,675	71	Weighted Average
	147,675		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.2400	0.13		**Sheet Flow, SHT** Woods: Dense underbrush n= 0.800 P2= 4.00"
3.3	262	0.2824	1.33		**Shallow Concentrated Flow, SCF** Forest w/Heavy Litter Kv= 2.5 fps
15.7	362	Total			

Summary for Subcatchment SS22vs1:

Runoff = 4.04 cfs @ 12.08 hrs, Volume= 0.269 af, Depth= 3.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr Q10 Rainfall=6.00"

	Area (sf)	CN	Description
	19,799	74	Pasture/grassland/range, Good, HSG C
*	5,758	98	Paved Parking and Svc Roads
	16,093	70	Woods, Good, HSG C
	41,650	76	Weighted Average
	35,892		Pervious Area
	5,758		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	100	0.1300	0.11		**Sheet Flow, SHT** Woods: Dense underbrush n= 0.800 P2= 4.00"
0.3	382	0.1021	20.20	242.35	**Trap/Vee/Rect Channel Flow, OCF** Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.025 Earth, clean & winding
16.1	482	Total			

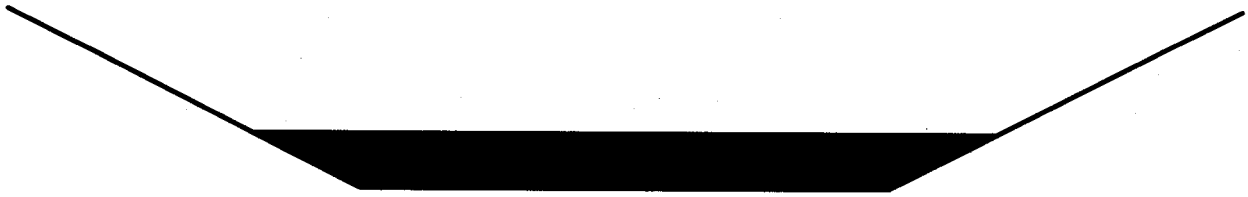
Summary for Reach CHNL1L: Conveyance

Inflow Area = 13.192 ac, 9.35% Impervious, Inflow Depth > 2.91" for Q10 event
Inflow = 15.50 cfs @ 12.45 hrs, Volume= 3.197 af
Outflow = 15.49 cfs @ 12.46 hrs, Volume= 3.196 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs / 3
Max. Velocity= 5.92 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.31 fps, Avg. Travel Time= 3.5 min

Peak Storage= 733 cf @ 12.46 hrs, Average Depth at Peak Storage= 0.48'
Bank-Full Depth= 1.50', Capacity at Bank-Full= 124.29 cfs

4.50' x 1.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 2.0 '/' Top Width= 10.50'
Length= 280.0' Slope= 0.1375 '/'
Inlet Invert= 2,138.50', Outlet Invert= 2,100.00'



Summary for Reach CHNL1U: Conveyance

Inflow Area = 12.852 ac, 9.00% Impervious, Inflow Depth > 2.57" for Q10 event
Inflow = 12.65 cfs @ 12.44 hrs, Volume= 2.749 af
Outflow = 12.65 cfs @ 12.45 hrs, Volume= 2.749 af, Atten= 0%, Lag= 0.3 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs / 3
Max. Velocity= 4.27 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 0.96 fps, Avg. Travel Time= 2.4 min

Peak Storage= 406 cf @ 12.45 hrs, Average Depth at Peak Storage= 0.58'
Bank-Full Depth= 1.50', Capacity at Bank-Full= 63.81 cfs

4.50' x 1.50' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.50'
Length= 137.0' Slope= 0.0547 '/'
Inlet Invert= 2,146.00', Outlet Invert= 2,138.50'

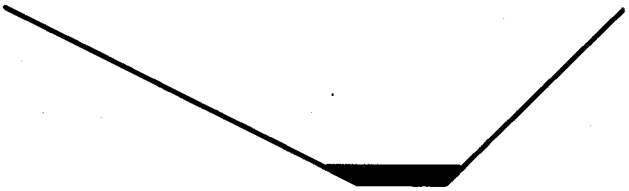
Summary for Reach RSWL3: Roadside Conveyance

Inflow Area = 2.521 ac, 8.99% Impervious, Inflow Depth = 1.11" for Q10 event
Inflow = 6.03 cfs @ 12.17 hrs, Volume= 0.233 af
Outflow = 5.97 cfs @ 12.19 hrs, Volume= 0.233 af, Atten= 1%, Lag= 1.3 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs / 2
Max. Velocity= 5.17 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 2.41 fps, Avg. Travel Time= 3.7 min

Peak Storage= 619 cf @ 12.19 hrs, Average Depth at Peak Storage= 0.44'
Bank-Full Depth= 4.00', Capacity at Bank-Full= 545.23 cfs

2.00' x 4.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 2.0 1.0 '/' Top Width= 14.00'
Length= 536.0' Slope= 0.0877 '/'
Inlet Invert= 2,147.00', Outlet Invert= 2,100.00'



Summary for Pond DMH: DCB

Inflow = 5.08 cfs @ 12.10 hrs, Volume= 0.896 af
Outflow = 5.08 cfs @ 12.10 hrs, Volume= 0.896 af, Atten= 0%, Lag= 0.0 min
Secondary = 5.08 cfs @ 12.10 hrs, Volume= 0.896 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 2,142.80' @ 12.10 hrs
Flood Elev= 2,144.00'

Device	Routing	Invert	Outlet Devices
#1	Secondary	2,140.50'	**12.0" x 23.0' long Culvert** CPP, square edge headwall, Ke= 0.500 Outlet Invert= 2,140.00' S= 0.0217 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Secondary OutFlow Max=5.08 cfs @ 12.10 hrs HW=2,142.80' (Free Discharge)
└**1=Culvert** (Inlet Controls 5.08 cfs @ 6.47 fps)

Summary for Pond DRYDET-H: DDP

Inflow Area = 20.060 ac, 7.94% Impervious, Inflow Depth > 2.97" for Q10 event
Inflow = 22.14 cfs @ 12.39 hrs, Volume= 4.957 af
Outflow = 13.23 cfs @ 12.89 hrs, Volume= 4.937 af, Atten= 40%, Lag= 29.7 min
Primary = 13.23 cfs @ 12.89 hrs, Volume= 4.937 af

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

Peak Elev= 2,103.83' @ 12.89 hrs Surf.Area= 12,984 sf Storage= 45,577 cf
Flood Elev= 2,104.50' Surf.Area= 14,975 sf Storage= 54,835 cf

Plug-Flow detention time= 93.5 min calculated for 4.937 af (100% of inflow)
Center-of-Mass det. time= 80.7 min (1,163.6 - 1,082.9)

Volume	Invert	Avail.Storage	Storage Description
#1	2,098.00'	62,323 cf	**Custom Stage Data (Pyramidal)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,098.00	3,174	0	0	3,174
2,100.00	6,221	9,226	9,226	6,269
2,102.00	9,614	15,712	24,938	9,735
2,104.00	13,315	22,829	47,767	13,533
2,104.50	14,975	7,068	54,835	15,210
2,105.00	14,975	7,488	62,323	15,455

Device	Routing	Invert	Outlet Devices
#1	Primary	2,095.00'	**24.0" x 120.0' long Culvert** CPP, square edge headwall, Ke= 0.500 Outlet Invert= 2,094.00' S= 0.0083 '/' Cc= 0.900 n= 0.009 Corrugated PE, smooth interior
#2	Device 1	2,098.00'	**weir notch, C= 2.62** Head (feet) 0.00 4.00 4.50 6.50 Width (feet) 0.17 0.17 0.17 4.17
#3	Primary	2,104.00'	**Overflow Checkdam, C= 2.62** Head (feet) 0.00 0.50 1.00 Width (feet) 45.00 50.00 50.00

Primary OutFlow Max=13.22 cfs @ 12.89 hrs HW=2,103.83' (Free Discharge)
- **1=Culvert** (Passes 13.22 cfs of 42.34 cfs potential flow)
  - **2=weir notch** (Weir Controls 13.22 cfs @ 4.77 fps)
- **3=Overflow Checkdam** (Controls 0.00 cfs)

Summary for Pond DRYDETG: DDP

Inflow Area =	16.669 ac,	9.55% Impervious,	Inflow Depth >	2.98"	for Q10 event
Inflow =	19.84 cfs @	12.36 hrs,	Volume=	4.140 af	
Outflow =	19.10 cfs @	12.44 hrs,	Volume=	4.138 af,	Atten= 4%, Lag= 4.9 min
Primary =	19.10 cfs @	12.44 hrs,	Volume=	4.138 af	

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs / 3
Peak Elev= 2,103.62' @ 12.44 hrs Surf.Area= 4,549 sf Storage= 11,781 cf
Flood Elev= 2,104.50' Surf.Area= 6,249 sf Storage= 16,403 cf

Plug-Flow detention time= 15.2 min calculated for 4.138 af (100% of inflow)
Center-of-Mass det. time= 14.1 min (1,130.6 - 1,116.5)

Volume	Invert	Avail.Storage	Storage Description
#1	2,098.00'	19,528 cf	**Custom Stage Data (Pyramidal)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,098.00	188	0	0	188
2,100.00	1,467	1,453	1,453	1,484
2,102.00	2,937	4,320	5,773	3,000
2,104.00	4,981	7,829	13,602	5,104
2,104.50	6,249	2,802	16,403	6,381
2,105.00	6,249	3,125	19,528	6,539

Device	Routing	Invert	Outlet Devices
#1	Primary	2,098.00'	**24.0" x 20.0' long Culvert** CPP, square edge headwall, Ke= 0.500 Outlet Invert= 2,098.00' S= 0.0000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior
#2	Device 1	2,098.00'	**notched weir, C= 2.62** Head (feet) 0.00 3.49 3.80 6.30 Width (feet) 0.17 0.17 0.17 5.17
#3	Primary	2,104.00'	**Overflow Checkdam, C= 2.62** Head (feet) 0.00 0.50 1.00 Width (feet) 44.40 50.00 50.00

Primary OutFlow Max=19.08 cfs @ 12.44 hrs HW=2,103.62' (Free Discharge)
- **1=Culvert** (Passes 19.08 cfs of 32.51 cfs potential flow)
  - **2=notched weir** (Weir Controls 19.08 cfs @ 4.48 fps)
- **3=Overflow Checkdam** (Controls 0.00 cfs)

Summary for Pond FB-SSF1: Forebay1

Inflow	=	5.08 cfs @	12.10 hrs,	Volume=	0.896 af
Outflow	=	5.07 cfs @	12.13 hrs,	Volume=	0.894 af, Atten= 0%, Lag= 1.9 min
Primary	=	5.07 cfs @	12.13 hrs,	Volume=	0.894 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 2,139.79' @ 12.13 hrs Surf.Area= 1,703 sf Storage= 3,290 cf
Flood Elev= 2,139.75' Surf.Area= 1,684 sf Storage= 3,226 cf

Plug-Flow detention time= 33.8 min calculated for 0.894 af (100% of inflow)
Center-of-Mass det. time= 32.6 min (897.4 - 864.8)

Volume	Invert	Avail.Storage	Storage Description
#1	2,136.00'	3,664 cf	**Custom Stage Data (Pyramidal)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,136.00	208	0	0	208
2,138.00	879	1,010	1,010	902
2,139.00	1,321	1,093	2,102	1,363
2,140.00	1,815	1,561	3,664	1,882

Device	Routing	Invert	Outlet Devices
#1	Primary	2,135.50'	**6.0" x 20.0' long Pretreatment Outlet Culvert** CPP, square edge headwall, Ke= 0.500 Outlet Invert= 2,135.30' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior
#2	Device 1	2,136.00'	**4.0" Horiz. Horizontal Internal Orifice** Limited to weir flow C= 0.600
#3	Device 2	2,136.33'	**1.0" Vert. Vertical Baffle Orifices X 3.00 columns** X 7 rows with 4.0" cc spacing C= 0.600
#4	Device 2	2,138.50'	**3.0" Horiz. Horiz High Orifice on Cap** Limited to weir flow C= 0.600
#5	Primary	2,139.25'	**Weirover to SSF1, C= 2.62** Head (feet) 0.00 0.75 Width (feet) 2.00 6.50

Primary OutFlow Max=5.06 cfs @ 12.13 hrs HW=2,139.79' (Free Discharge)
- **1=Pretreatment Outlet Culvert** (Passes 0.82 cfs of 1.79 cfs potential flow)
  - **2=Horizontal Internal Orifice** (Orifice Controls 0.82 cfs @ 9.37 fps)
    - **3=Vertical Baffle Orifices** (Passes < 0.85 cfs potential flow)
    - **4=Horiz High Orifice on Cap** (Passes < 0.27 cfs potential flow)
- **5=Weirover to SSF1** (Weir Controls 4.25 cfs @ 2.19 fps)

Summary for Pond SSF1: Sand Filter 1

Inflow	=	5.07 cfs @	12.13 hrs,	Volume=	0.894 af
Outflow	=	3.06 cfs @	12.44 hrs,	Volume=	0.889 af, Atten= 40%, Lag= 18.8 min
Primary	=	2.85 cfs @	12.44 hrs,	Volume=	0.448 af
Secondary	=	0.20 cfs @	12.44 hrs,	Volume=	0.441 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 2,139.25' @ 12.44 hrs Surf.Area= 3,822 sf Storage= 10,083 cf

Plug-Flow detention time= 290.6 min calculated for 0.889 af (99% of inflow)
Center-of-Mass det. time= 286.7 min (1,184.1 - 897.4)

Volume	Invert	Avail.Storage	Storage Description
#1	2,131.00'	12,355 cf	**Filter Bed Area (Pyramidal)** Listed below (Recalc) 15,578 cf Overall - 3,223 cf Embedded = 12,355 cf
#2	2,131.00'	1,289 cf	**Filter Bed System (Pyramidal)** Listed below (Recalc) Inside #1 3,223 cf Overall x 40.0% Voids
		13,644 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,131.00	0	0	0	0
2,131.50	879	147	147	879
2,132.00	879	440	586	939
2,135.00	879	2,637	3,223	1,295
2,136.00	1,394	1,127	4,350	1,827
2,139.00	3,251	6,774	11,123	3,768
2,140.00	5,778	4,454	15,578	6,309

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,131.00	0	0	0	0
2,131.50	879	147	147	879
2,132.00	879	440	586	939
2,135.00	879	2,637	3,223	1,295

Device	Routing	Invert	Outlet Devices
#1	Secondary	2,132.00'	**8.0" x 135.0' long Culvert** CPP, square edge headwall, Ke= 0.500 Outlet Invert= 2,131.00' S= 0.0074 '/' Cc= 0.900 n= 0.009 Corrugated PE, smooth interior
#2	Device 1	2,132.00'	**1.7" Vert. Vert Orifice** C= 0.600
#3	Primary	2,139.00'	**Spillover Weir, C= 2.62** Head (feet) 0.00 1.00 Width (feet) 6.00 13.50

Primary OutFlow Max=2.81 cfs @ 12.44 hrs HW=2,139.25' (Free Discharge)
└─**3=Spillover Weir** (Weir Controls 2.81 cfs @ 1.60 fps)

Secondary OutFlow Max=0.20 cfs @ 12.44 hrs HW=2,139.25' (Free Discharge)
└─**1=Culvert** (Passes 0.20 cfs of 3.45 cfs potential flow)
  └─**2=Vert Orifice** (Orifice Controls 0.20 cfs @ 12.90 fps)

Summary for Link CSS21-P: CVS21 P

Inflow Area = 2.521 ac, 8.99% Impervious, Inflow Depth = 1.11" for Q10 event
Inflow = 6.03 cfs @ 12.17 hrs, Volume= 0.233 af
Primary = 6.03 cfs @ 12.17 hrs, Volume= 0.233 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond CVS21.hce

Summary for Link DDPF 0CS P: DDP F P

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDPF OCS.hce

Summary for Link DDPF OCS S: DDP F S

Inflow = 2.25 cfs @ 12.17 hrs, Volume= 0.540 af
Primary = 2.25 cfs @ 12.17 hrs, Volume= 0.540 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Q10 Secondary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDPF OCS.hce

Summary for Link DRYDETE-P: DDP E

Inflow Area = 12.852 ac, 9.00% Impervious, Inflow Depth > 2.57" for Q10 event
Inflow = 12.65 cfs @ 12.44 hrs, Volume= 2.749 af
Primary = 12.65 cfs @ 12.44 hrs, Volume= 2.749 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDP E.hce

Summary for Link DRYDETF-P: DDP F Overflow

Inflow Area = 0.340 ac, 22.36% Impervious, Inflow Depth = 0.00" for Q10 event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Q10 Primary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DDP F.hce

Summary for Link DV1 S: DV1

Inflow = 2.93 cfs @ 12.00 hrs, Volume= 0.356 af
Primary = 2.93 cfs @ 12.00 hrs, Volume= 0.356 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Q10 Secondary Outflow Imported from PR Upper Discovery Parking TIER A-D 1Cof3~Pond DV1.hce

Summary for Link LINK1: Link to 3 of 3

Inflow Area = 23.738 ac, 6.99% Impervious, Inflow Depth > 2.94" for Q10 event
Inflow = 14.71 cfs @ 12.86 hrs, Volume= 5.826 af
Primary = 14.71 cfs @ 12.86 hrs, Volume= 5.826 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs