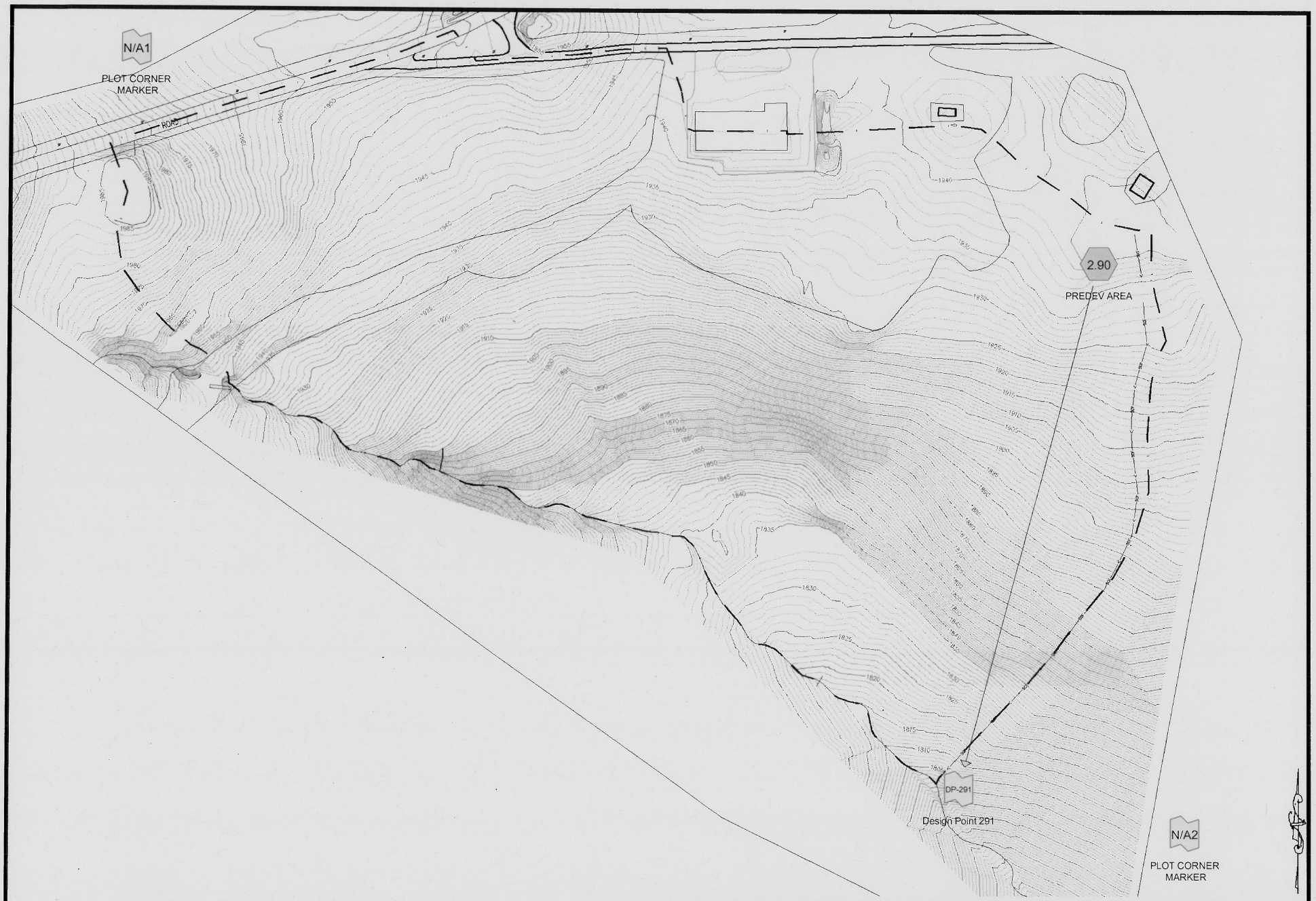
NORTH PARKING AREA



Drainage Diagram for EX North Parking

Prepared by NYSDEC DOP BD&C, Printed 12/28/2009

HydroCAD® 8.50 s/n 005484 © 2007 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
30.551	70	Woods, Good, HSG C (2.90)
6.094	74	Grassed Area (2.90)
0.066	74	Grassed Area, Y island (2.90)
0.209	98	County Road (2.90)
0.383	98	Maint Bldg and Parking (2.90)
0.136	98	Town Road (2.90)
37.439		**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Goup	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
30.551	HSG C	2.90
0.000	HSG D	
6.888	Other	2.90
37.439		**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 2.90: PREDEV AREA Runoff Area=1,630,846 sf 1.94% Impervious Runoff Depth=2.90"
Flow Length=1,194' Tc=44.0 min CN=71 Runoff=71.47 cfs 9.044 af

Link DP-291: Design Point 291 Inflow=71.47 cfs 9.044 af
Primary=71.47 cfs 9.044 af

Total Runoff Area = 37.439 ac Runoff Volume = 9.044 af Average Runoff Depth = 2.90"
98.06% Pervious = 36.711 ac 1.94% Impervious = 0.728 ac

Summary for Subcatchment 2.90: PREDEV AREA

Check for non-erosive peak velocity 3.5 to 5.0 fps during 2-yr 24-hr event with 4.00 inch rain.

Imperv Parking Lot
use 2% cross slope

Dry swale

#% max longitudinal slope
#' wide floor?

see acad layout

Runoff = 71.47 cfs @ 12.43 hrs, Volume= 9.044 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type II 24-hr Q10 Rainfall=6.00"

	Area (sf)	CN	Description
*	16,687	98	Maint Bldg and Parking
*	5,917	98	Town Road
*	9,090	98	County Road
*	265,467	74	Grassed Area
*	2,877	74	Grassed Area, Y island
	337,190	70	Woods, Good, HSG C
*	993,618	70	Woods, Good, HSG C
	1,630,846	71	Weighted Average
	1,599,152		Pervious Area
	31,694		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	100	0.0500	0.07		**Sheet Flow, SHT begins in forest** Woods: Dense underbrush n= 0.800 P2= 4.00"
20.8	1,094	0.1234	0.88		**Shallow Concentrated Flow, SCF to channel** Forest w/Heavy Litter Kv= 2.5 fps
44.0	1,194	Total			

Summary for Link DP-291: Design Point 291

Inflow Area = 37.439 ac, 1.94% Impervious, Inflow Depth = 2.90" for Q10 event
Inflow = 71.47 cfs @ 12.43 hrs, Volume= 9.044 af
Primary = 71.47 cfs @ 12.43 hrs, Volume= 9.044 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs