APPLICATION FOR DEVELOPMENT / PRELIMINARY PLAT APPROVAL

1. Name of Applicant Richmond House of Prayer INC

Address 330 Mule Shed Lane

Phone _____

2. Name of Surveyor or Engineer Dwayne Wheatley

Address 500 Recycle Drive

Phone _____

3. Name of Subdivision _____

4. Location Description Mule Shed Lane

(in addition, please attach a copy of legal description)

5. Proposed Use church

6. Proposed Land Use Designation _____

7. Proposed Land Use Changes _____

8. Number of Lots 1 Smallest lot: No. _____ Sq Ft. _____ Area of Tract _____

9. Number of Acres 11.58 acres +/-

10. Do you propose deed restrictions _____ (yes/no)

11. What type of sewage disposal is proposed? _____

12. List all proposed improvements and utilities:

	Section Number	Item
a.	_____	_____
b.	_____	_____
c.	_____	_____

d. _____ _____

e. _____ _____

13. Waivers requested from plat or design requirements:

	Section Number	Item
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____
e.	_____	_____

14. List other materials submitted with this application

a. copies

b. fee

c. _____

d. _____

e. _____

_____ _____

Signature of Applicant Signature of Engineer/Surveyor

Date_____ Fee_____

FOR OFFICIAL USE ONLY

Date Received_____ Received by_____

Date of Meeting of Planning Commission _____

Action by Planning Commission:

Status: Approved

_____Rejected, reason(s) for rejection_____

_____

_____

_____

Date_____ Chairperson Signature_____

APPENDIX D

PLAT REQUIREMENTS CHECKLIST

This checklist will be used for preparing any of the three (3) types of plats (Minor, Preliminary, and Final). The following information shall be included (unless accompanied by a written request for waiver) for any of the plats in which the block does not have an "N/A" inside it. Please place an "X" in the corresponding box in the respective column (**M** – Minor, **P** – Preliminary, and **F** – Final) to the right to show that you have included that item on the plat. Upon completion, please sign and date the appropriate spaces at the end and include this checklist along with your application upon submission to the Administrative Official.

		M	P	F
A.	Name of subdivision, date, label, type of plat, graphic scale, north arrow, acreage to be divided, purpose of plat.	☐	☐	☒
B.	Name, address and telephone number of property owner, sub-divider (if other than owner), and developer.	☐	☐	☒
C.	Name, address, and seal of the registered professional engineer or land surveyor responsible for preparation of the plan and supplementary plans.	☐	☐	☒
D.	Names of adjacent property owners of record and abutting subdivisions and streets.	☐	☐	☒
E.	Vicinity sketch map, at a scale of two thousand (2,000) feet per inch or greater, showing the subject property and surrounding land within one-half (1/2) mile, and including existing roads with at least one intersection of common reference, scale, north arrow, and an outline of the subject property. Boundary lines and streets in adjacent developments shall be shown, along with how they will connect with streets in the proposed sub-division to assure the most advantageous development. Existing and prepared shopping facilities, schools, and parks should be designated.	☐	☐	☒

		M	P	F
F.	The proposed subdivision shall be shown at a scale of not less than one hundred (100) feet per inch (except where sheet size is prohibitive). Boundaries of the tract will be drawn showing approximate bearings and distances.	☐	☐	☐
G.	The plat will show physical features, including streams, wooded areas, existing structures, ponds, and sink holes.	☐	☐	☐
H.	Existing topographic contours at an interval of not greater than ten (10) feet shall be shown for the subject property. Where topographic conditions warrant, a contour interval of five (5) feet may be required. Contours shall be shown on all plats.	☐	☐	☐
I.	Obtain, and submit with the plat, a properly signed State Highway Encroachment Permit, if the property fronts on a state highway.	☐	☐	☐
J.	Location, dimensions, and names of existing streets, railroads, easements, municipal boundaries, or other public properties, and significant features shall be shown within and adjacent to the plat for a minimum distance of two hundred (200) feet.	☒	☐	☐
K.	Location of existing sewers, fire hydrants, water mains, storm drains, and power transmission lines with capacities (as applicable).	☒	☐	☐
L.	Location, right-of-way, and pavement width of proposed streets, fire hydrants, and utility and drainage easements laid out according to sound planning principles. All streets and private drives that will enter onto a county road shall require the review and signature of the County Road Supervisor.	☐	☐	☐

		M	P	F
M.	Radii of streets, points of curvature, lengths of arcs.	N/A	☐	☐
N.	Street names selected so as not to duplicate any other within the County.	N/A	☐	☐
O.	Layout of proposed parcels of land including dimensions of lot lines, lot numbers, and front, side, and rear building setback lines may be written in on the deed. Lot or parcels shall be laid out according to sound planning principles.	☒	☐	☐
P.	Designation and acreage of all parcels and areas to be used for non-residential purposes, including parcels reserved or dedicated for public use and utility installations. All such parcels shall be assigned parcel numbers.	☐	☐	☐
Q.	Location of monuments and pins, which shall be placed at the intersection of property lines, the intersection of street center lines, changes in street direction, and the intersections and angles of the subdivision boundary.	☐	☐	☐
R.	Note indicating the lot number and area in square feet of the smallest lot in the subdivision.	N/A	☐	☐
S.	Subdivision plats being submitted for industrial or commercial development shall include additional information as required by the Planning Commission.	N/A	☐	☐

M P F

T. Floodplain Development. Chapter 151 of the Kentucky Revised Statutes requires approval from the Kentucky Division of Water & the Madison County Administration prior to any construction or other activity in or along a stream that could in any way obstruct flood flows. This construction activity includes, but is not limited to; construction or reconstruction of any dam, embankment, levee, dike, bridge, fill or other obstruction in the floodplain of any stream in the Commonwealth; residential and non-residential structures and remodeling of the same, including mobile and manufactured homes and historic structures.
No new residential structures may be constructed in a floodway. Nothing can be placed in a floodway that will cause any rise is Base Flood Elevations. Engineering Analysis is required.

SUPPLEMENTARY PLAT REQUIREMENTS

The following items of supplementary information shall be submitted with, and considered as part of, the plat (as applicable)

A. Copy of completed subdivision application form.

B. Description of physiographic characteristics, including soil types, slope, permeability rates, ground water, depth to bedrock, sinkholes, flood frequency.

C. Statement of deed restrictions and protective covenants, if any.

D. Typical street-cross sections showing roadbed construction, curbs, gutters, sidewalks, and relationship of underground utilities. N/A

E. Plans for showing provisions for domestic water supply. The water system shall include a statement that there is adequate water supply and pressure to support the proposed development. N/A

M P F

F. Drainage/Soil Erosion Control Plan. The developer shall indicate (on a supplemental attachment) the plan for controlling drainage and soil erosion both during and upon completion of development. The location and specifications of such controls as silt fences, staked by hay bales, detention ponds, etc. shall be shown. The drainage plan shall include contours, location and size of culverts, retention/detention ponds, and other drainage structures, and calculations of runoff estimates before and after development. The plans will show certification of approval by a representative from the local Natural Resources Conservation Service office. Erosion control measures will be emplaced in conjunction with initial site preparation activities. N/A ☐ ☐

G. Certification on plat showing that streets and utilities have been approved by the appropriate agencies and conform to general requirements and minimum standards of design. Property fronting on a state or federal highway must receive approval from the State Highway Department of Transportation for ingress and egress. Property fronting on a county road must receive approval from the County Road Supervisor for ingress and egress. Street light may be required. ☑ ☐ ☐

H. Certification on plat of title showing that the applicant is the owner, and a statement by such owner dedicating streets, rights-of-way, and any other sites for public use. See appropriate form. ☐ ☐ ☐

I. Copy of site evaluation application from County Health Officer. A plan for sanitary sewage disposal will be shown. Certification on plat by the County Health Officer when individual sewage disposal or water systems are to be installed. ☐ ☐ ☐

J. Certification on plat surveyor or engineer as to the accuracy or survey and plat. See appropriate form. ☒ ☐ ☐

	M	P	F
K. Certification that the sub-divider has complied with one of the following alternatives:	N/A	☐	☐
1. All the improvements have been installed in accordance with the requirements of these regulations,			
or			
2. A security bond, certified check, or irrevocable letter of credit has been posted with the Administrative Official in sufficient amount to assure such completion of all required improvements. Sufficient amount is determined by the developer's engineer.	N/A	☐	☐
L. Certification on plat by the Chairman of the Planning Commission that the plat has been approved for recording in the office of the County Clerk.		☒	☐ ☐
M. Certification on plat by the County Clerk that the plat is accepted for filing and recording.		☐	☐ ☐

I hereby certify that I have addressed all of the applicable minimum requirements for the subdivision of land, I further understand if all items are not properly addressed, this plat will not be reviewed by the Planning Commission.

Dwayne Wheeley

Signature ***Date***

APPLICATION FOR DEVELOPMENT / PRELIMINARY PLAT APPROVAL

1. Name of Applicant Kentucky Lodging and Development Inc.

Address 1738 Cumberland Falls Hwy, Corbin, KY 40701

Phone 859-734-0560

2. Name of Surveyor or Engineer Will Stevens

Address 2038 Danville Road, Harrodsburg, KY 40330

Phone 859-734-0560

3. Name of Subdivision Kentucky Lodging and Development Inc.

4. Location Description 4050 Irvine Road, Waco, KY 40385

(in addition, please attach a copy of legal description)

5. Proposed Use Dollar General Retail Store

6. Proposed Land Use Designation General Business

7. Proposed Land Use Changes N/A

8. Number of Lots____Smallest lot: No.____Sq Ft.____Area of Tract____

9. Number of Acres 2.336 acres

10. Do you propose deed restrictions N/A (yes/no)

11. What type of sewage disposal is proposed? On-site Sanitary Sewer

12. List all proposed improvements and utilities:

	Section Number	Item
a.	N/A	
b.	N/A	
c.	N/A	

d. N/A

e. N/A

13. Waivers requested from plat or design requirements:

	Section Number	Item
a.	4.06(G)	20' Landscape Buffer
b.	4.06(G)(A)	12' Vehicular Use Buffer
c.	4.06(G)(A)(2)	Hedge
d.	4.09	
e.		

14. List other materials submitted with this application

a. Development Plan

b. Consolidation Plat

c. Stormwater Report

d. BMP Plan

e.

Signature of Applicant

Signature of Engineer/Surveyor

Date 10/24/2024

Fee

FOR OFFICIAL USE ONLY

Date Received_____ Received by_____

Date of Meeting of Planning Commission _____

Action by Planning Commission:

Status: Approved

_____Rejected, reason(s) for rejection_____

_____

_____

_____

Date_____ Chairperson Signature_____

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		M	P	F
A.	Name of subdivision, date, label, type of plat, graphic scale, north arrow, acreage to be divided, purpose of plat.	X	☐	☐
B.	Name, address and telephone number of property owner, sub-divider (if other than owner), and developer.	X	☐	☐
C.	Name, address, and seal of the registered professional engineer or land surveyor responsible for preparation of the plan and supplementary plans.	X	☐	☐
D.	Names of adjacent property owners of record and abutting subdivisions and streets.	X	☐	☐
E.	Vicinity sketch map, at a scale of two thousand (2,000) feet per inch or greater, showing the subject property and surrounding land within one-half (1/2) mile, and including existing roads with at least one intersection of common reference, scale, north arrow, and an outline of the subject property. Boundary lines and streets in adjacent developments shall be shown, along with how they will connect with streets in the proposed sub-division to assure the most advantageous development. Existing and prepared shopping facilities, schools, and parks should be designated.	X	☐	☐

		M	P	F
F.	The proposed subdivision shall be shown at a scale of not less than one hundred (100) feet per inch (except where sheet size is prohibitive). Boundaries of the tract will be drawn showing approximate bearings and distances.	X	☐	☐
G.	The plat will show physical features, including streams, wooded areas, existing structures, ponds, and sink holes.	X	☐	☐
H.	Existing topographic contours at an interval of not greater than ten (10) feet shall be shown for the subject property. Where topographic conditions warrant, a contour interval of five (5) feet may be required. Contours shall be shown on all plats.	X	☐	☐
I.	Obtain, and submit with the plat, a properly signed State Highway Encroachment Permit, if the property fronts on a state highway.	X	☐	☐
J.	Location, dimensions, and names of existing streets, railroads, easements, municipal boundaries, or other public properties, and significant features shall be shown within and adjacent to the plat for a minimum distance of two hundred (200) feet.	X	☐	☐
K.	Location of existing sewers, fire hydrants, water mains, storm drains, and power transmission lines with capacities (as applicable).	X	☐	☐
L.	Location, right-of-way, and pavement width of proposed streets, fire hydrants, and utility and drainage easements laid out according to sound planning principles. All streets and private drives that will enter onto a county road shall require the review and signature of the County Road Supervisor.	X	☐	☐

		M	P	F
M.	Radii of streets, points of curvature, lengths of arcs.	N/A	☐	☐
N.	Street names selected so as not to duplicate any other within the County.	N/A	☐	☐
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R.	Note indicating the lot number and area in square feet of the smallest lot in the subdivision.	N/A	☐	☐
S.	Subdivision plats being submitted for industrial or commercial development shall include additional information as required by the Planning Commission.	N/A	☐	☐

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C.	Statement of deed restrictions and protective covenants, if any.	☐	☐	☐
D.	Typical street-cross sections showing roadbed construction, curbs, gutters, sidewalks, and relationship of underground utilities.	N/A	☐	☐
E.	Plans for showing provisions for domestic water supply. The water system shall include a statement that there is adequate water supply and pressure to support the proposed development.	N/A	☐	☐

		M	P	F
F.	Drainage/Soil Erosion Control Plan. The developer shall indicate (on a supplemental attachment) the plan for controlling drainage and soil erosion both during and upon completion of development. The location and specifications of such controls as silt fences, staked by hay bales, detention ponds, etc. shall be shown. The drainage plan shall include contours, location and size of culverts, retention/detention ponds, and other drainage structures, and calculations of runoff estimates before and after development. The plans will show certification of approval by a representative from the local Natural Resources Conservation Service office. Erosion control measures will be emplaced in conjunction with initial site preparation activities.	N/A	☐	☐
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H.	Certification on plat of title showing that the applicant is the owner, and a statement by such owner dedicating streets, rights-of-way, and any other sites for public use. See appropriate form.	☐	☐	☐
I.	Copy of site evaluation application from County Health Officer. A plan for sanitary sewage disposal will be shown. Certification on plat by the County Health Officer when individual sewage disposal or water systems are to be installed.	☒	☐	☐
J.	Certification on plat surveyor or engineer as to the accuracy or survey and plat. See appropriate form.	☒	☐	☐

VANTAGE
Engineering PLC

ph (859) 734-0560
fx (859) 734-0561
www.vantageky.com

2038 Danville Road
Harrodsburg, Kentucky 40330

October 28, 2024

Mr. Bert Thomas
Madison County Planning & Building Codes

Re: Dollar General Store
4050 Irvine Road (KY HWY 52)
Waco, KY 40385
Stormwater Management Plan

Mr. Thomas:

The attached report summarizes the drainage and proposed stormwater facilities to be constructed to control runoff from the Dollar General Store located at 4050 Irvine Road (KY HWY 52), Waco, KY 40385.

Dollar General Site

The proposed building and parking lot will add impervious surface to the existing lot which was formerly used for an Equine Stable. To offset increased runoff from the proposed improvements, the proposed stormwater detention basin is structured to control the increased runoff, reducing peak flows to pre-development levels.

The proposed stormwater detention basin will include a new embankment and outlet structure. The runoff from the proposed building rooftop and parking lot will be directed into a detention basins via storm inlets and culverts.

Water Quantity Control

A hydrologic model of the existing and proposed stormwater runoff conditions was established using SCS Runoff Methods and HydroCAD modeling software. The watershed was evaluated to the downstream limits of the site.

The peak discharge for the design storm events are summarized as follows:

Peak Discharge		
Storm Event	Existing Conditions	Proposed Conditions
25-year 24-hour	8.44 cfs	8.08 cfs
100-year 24-hour	11.79 cfs	10.79 cfs

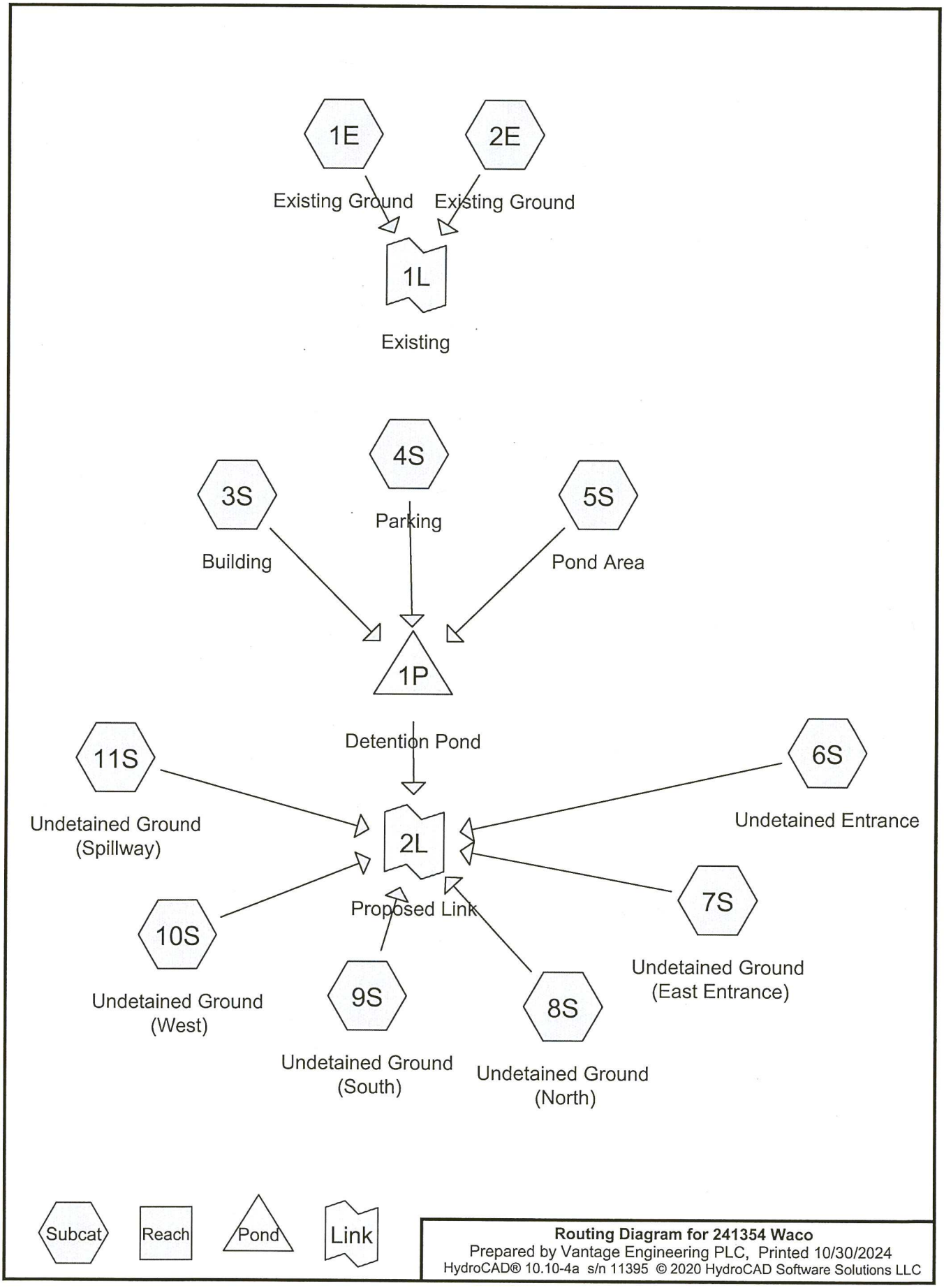
Based on these results, the proposed stormwater detention basin sufficiently attenuate the peak discharge for the design storm events.

Detention Pond Emergency Spillway

The proposed development has been designed to handle peak flow during a 100-year storm allowing stormwater to flow over the emergency spillway. Further, a scenario was modeled in which all outlets within the detention pond were blocked with the exception of the emergency spillway. In this scenario, the emergency spillway adequately handled the peak flow during a 100-year storm without overtopping the dam.

Enclosed, please find reports produced from our stormwater analysis in HydroCAD and a development plan. If you require any additional information regarding these improvements, please contact me.
Sincerely,

Will Stevens, PE, PLS
Vantage Engineering



Routing Diagram for 241354 Waco
Prepared by Vantage Engineering PLC, Printed 10/30/2024

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	25-Year	NOAA 24-hr	B	Default	24.00	1	5.04	2
2	100-Year	NOAA 24-hr	B	Default	24.00	1	6.35	2

Summary for Subcatchment 1E: Existing Ground

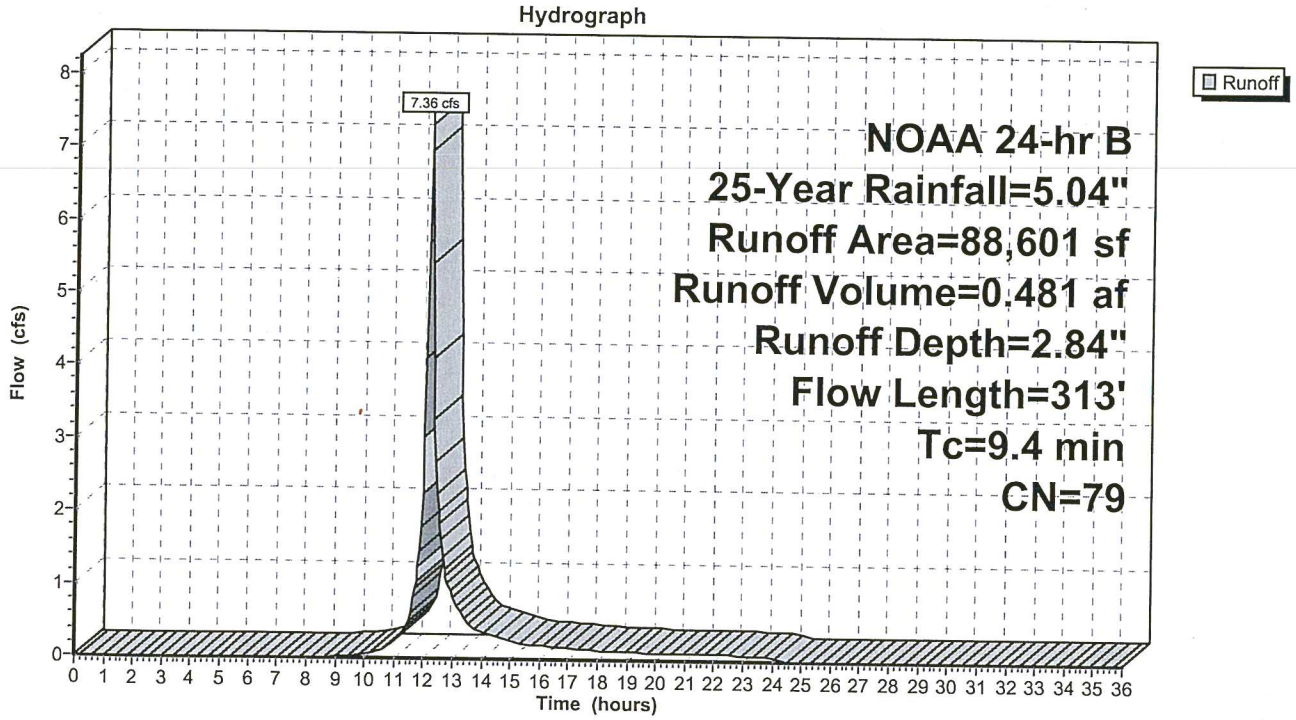
Runoff = 7.36 cfs @ 12.17 hrs, Volume= 0.481 af, Depth= 2.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
88,601	79	Pasture/grassland/range, Fair, HSG C
88,601		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	53	0.0234	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
3.7	260	0.0286	1.18		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
9.4	313	Total			

Subcatchment 1E: Existing Ground



Summary for Subcatchment 2E: Existing Ground

[49] Hint: Tc<2dt may require smaller dt

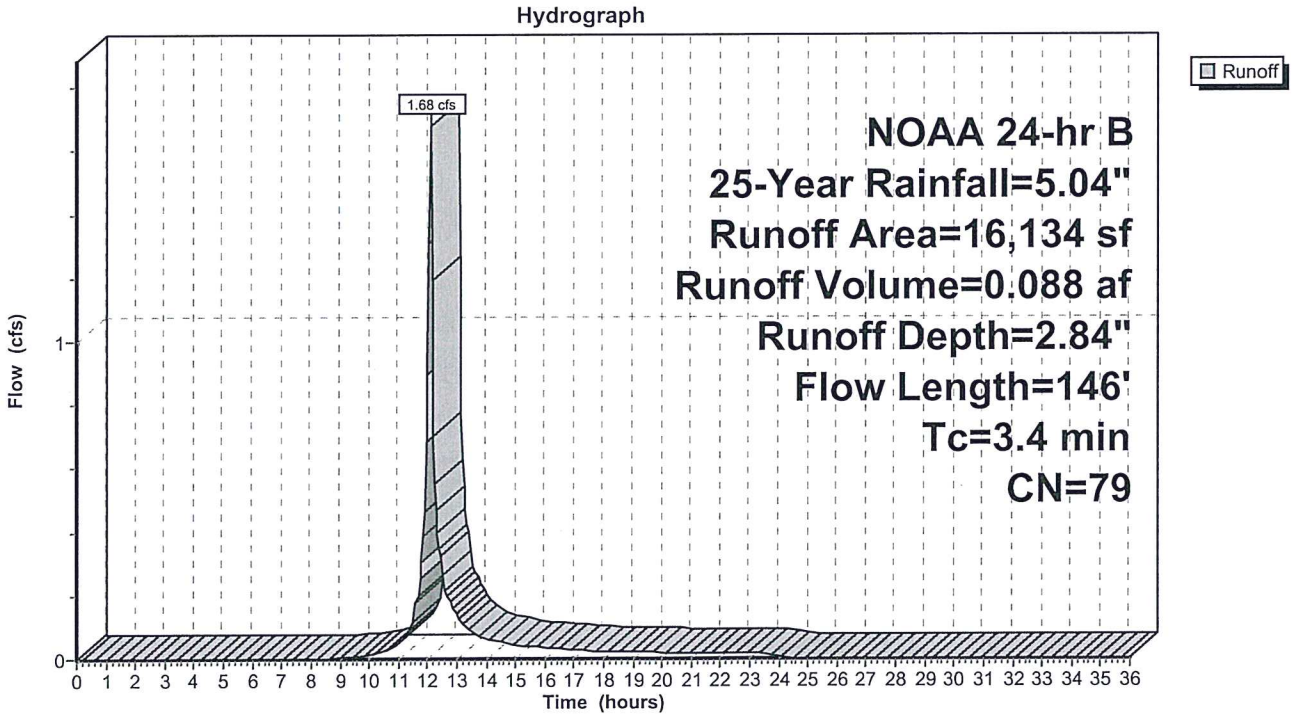
Runoff = 1.68 cfs @ 12.10 hrs, Volume= 0.088 af, Depth= 2.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
16,134	79	Pasture/grassland/range, Fair, HSG C
16,134		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	24	0.0519	0.18		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
1.2	122	0.0630	1.76		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	146	Total			

Subcatchment 2E: Existing Ground



Summary for Subcatchment 3S: Building

[49] Hint: Tc<2dt may require smaller dt

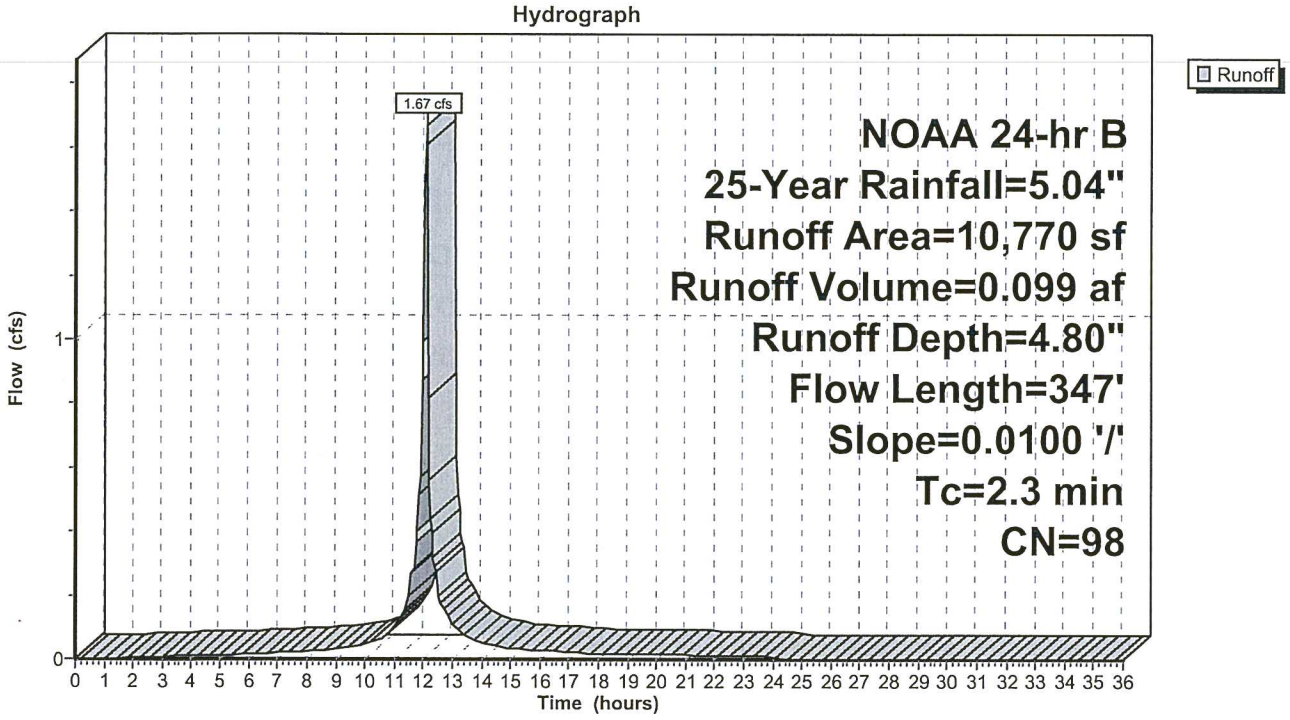
Runoff = 1.67 cfs @ 12.08 hrs, Volume= 0.099 af, Depth= 4.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
10,770	98	Roofs, HSG C
10,770		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	77	0.0100	0.96		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
1.0	270	0.0100	4.54	3.56	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
2.3	347	Total			

Subcatchment 3S: Building



Summary for Subcatchment 4S: Parking

[49] Hint: Tc<2dt may require smaller dt

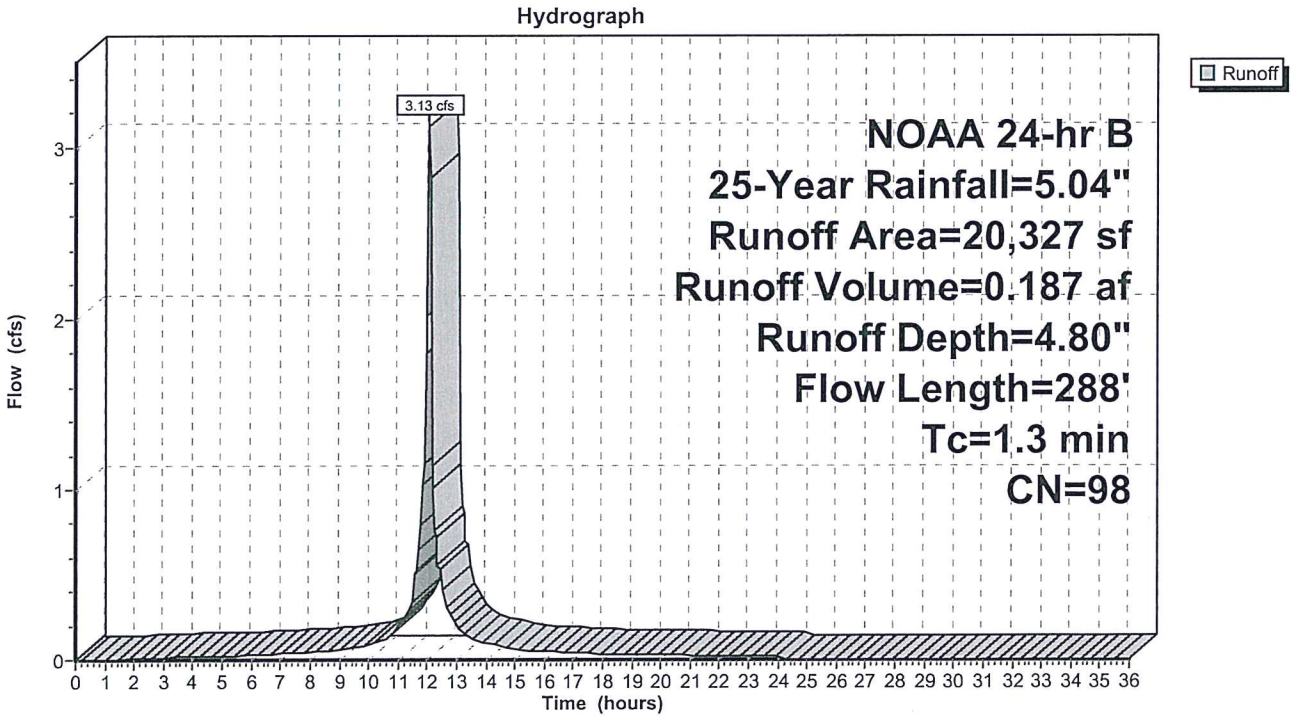
Runoff = 3.13 cfs @ 12.07 hrs, Volume= 0.187 af, Depth= 4.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
20,327	98	Paved parking, HSG C
20,327		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	11	0.0200	0.86		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
0.4	50	0.0110	2.13		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.7	227	0.0100	5.26	6.46	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior
1.3	288	Total			

Subcatchment 4S: Parking



Summary for Subcatchment 5S: Pond Area

[49] Hint: Tc<2dt may require smaller dt

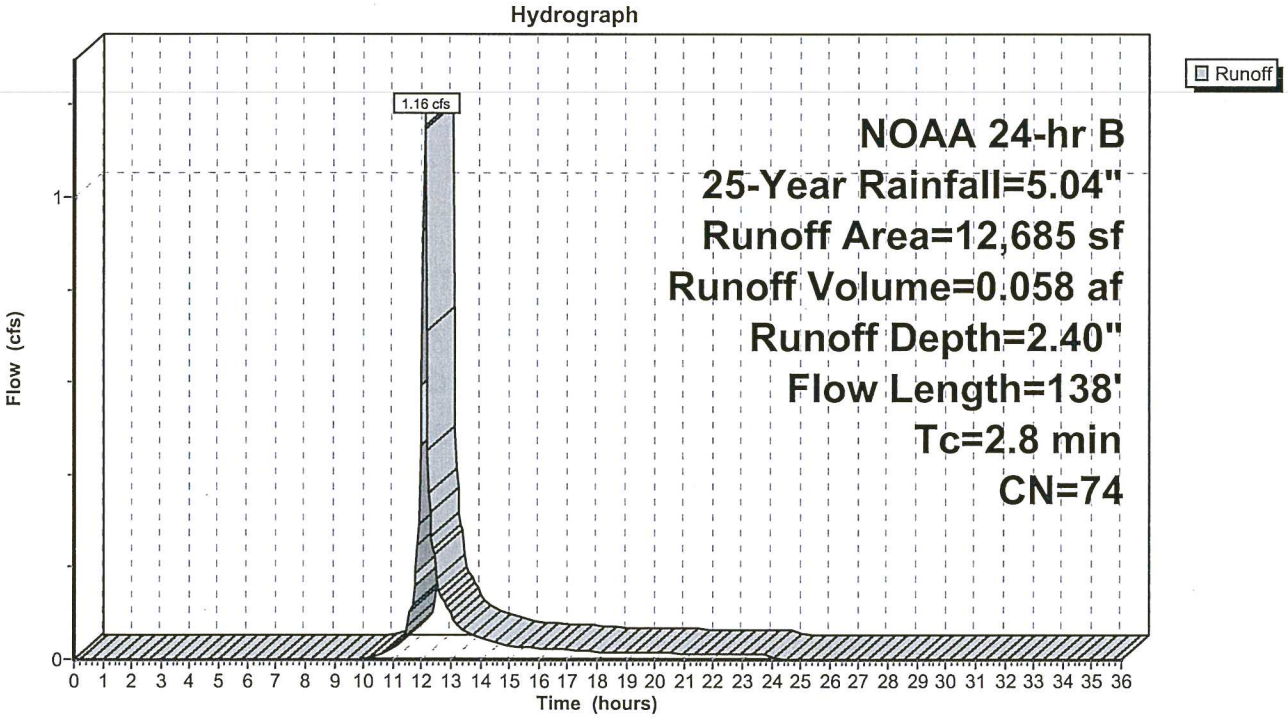
Runoff = 1.16 cfs @ 12.09 hrs, Volume= 0.058 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
12,685	74	Pasture/grassland/range, Good, HSG C
12,685		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	18	0.3300	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
2.0	120	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.8	138	Total			

Subcatchment 5S: Pond Area



Summary for Subcatchment 6S: Undetained Entrance

[49] Hint: Tc<2dt may require smaller dt

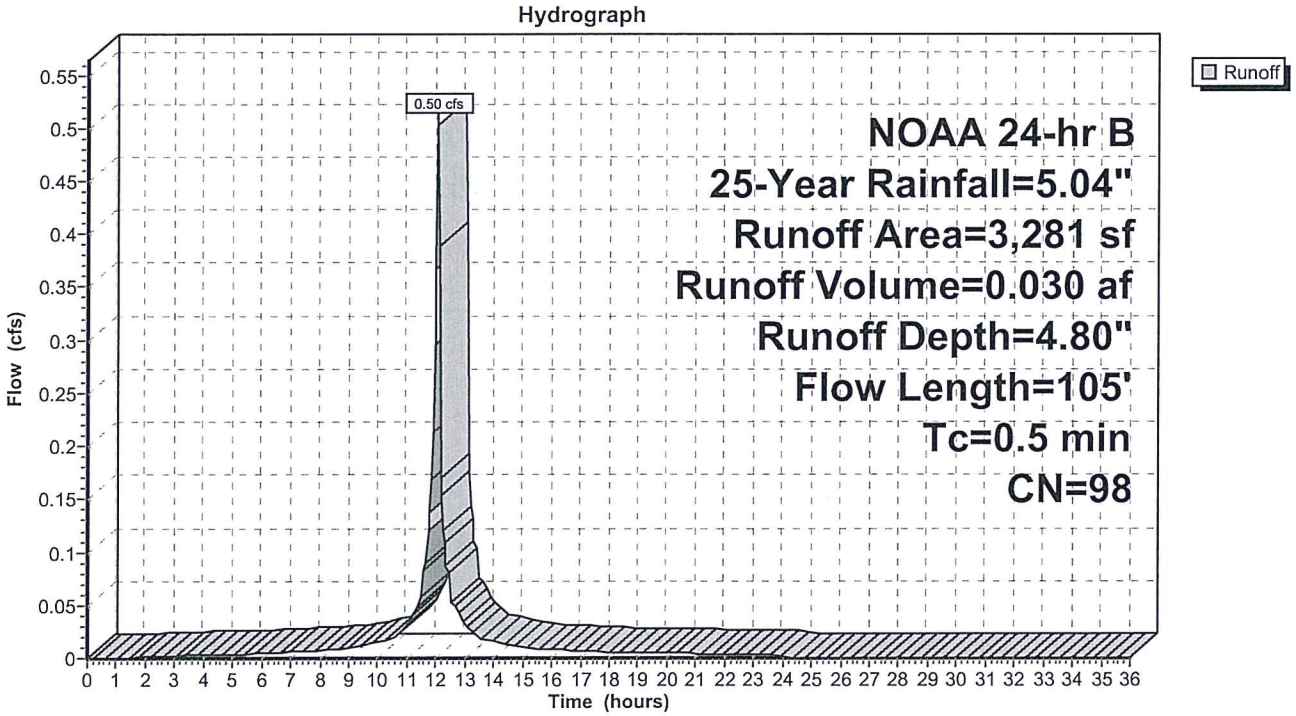
Runoff = 0.50 cfs @ 12.05 hrs, Volume= 0.030 af, Depth= 4.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
3,281	98	Paved parking, HSG C
3,281		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	7	0.0410	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
0.4	98	0.0415	4.14		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.5	105	Total			

Subcatchment 6S: Undetained Entrance



Summary for Subcatchment 7S: Undetained Ground (East Entrance)

[49] Hint: Tc<2dt may require smaller dt

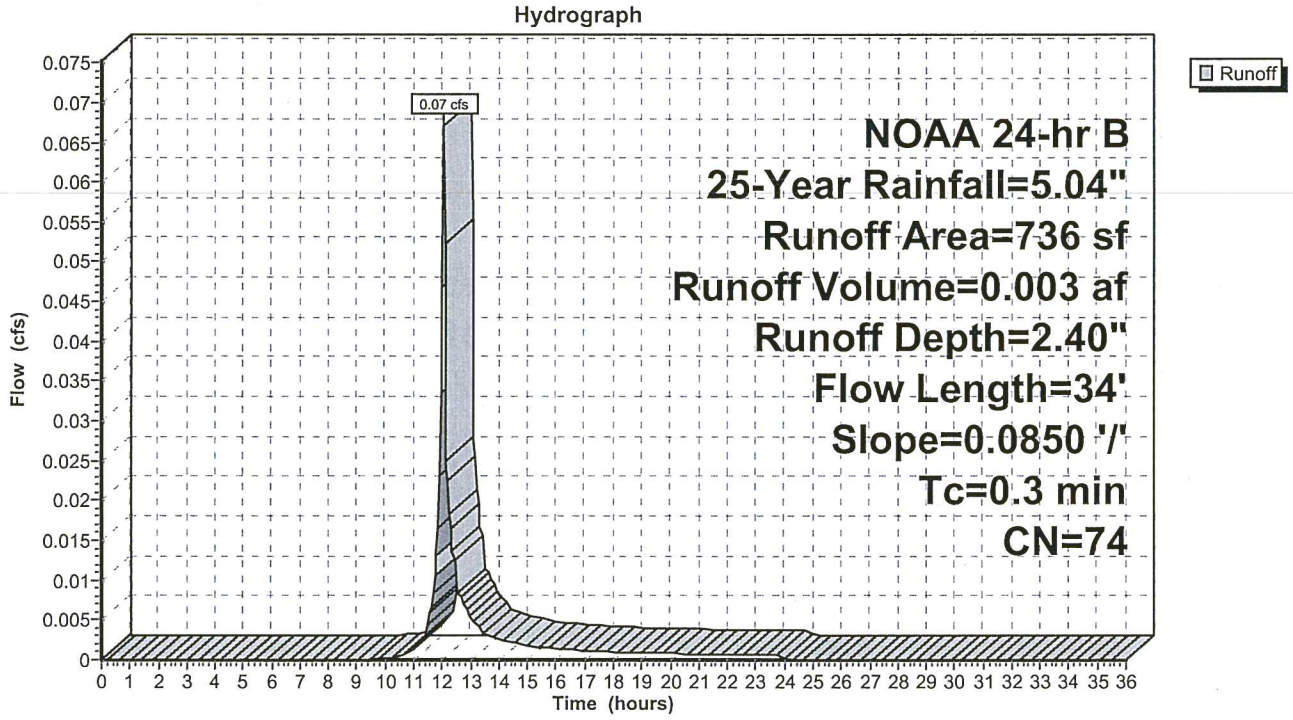
Runoff = 0.07 cfs @ 12.05 hrs, Volume= 0.003 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
736	74	Pasture/grassland/range, Good, HSG C
736		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	34	0.0850	2.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 7S: Undetained Ground (East Entrance)



Summary for Subcatchment 8S: Undetained Ground (North)

[49] Hint: Tc<2dt may require smaller dt

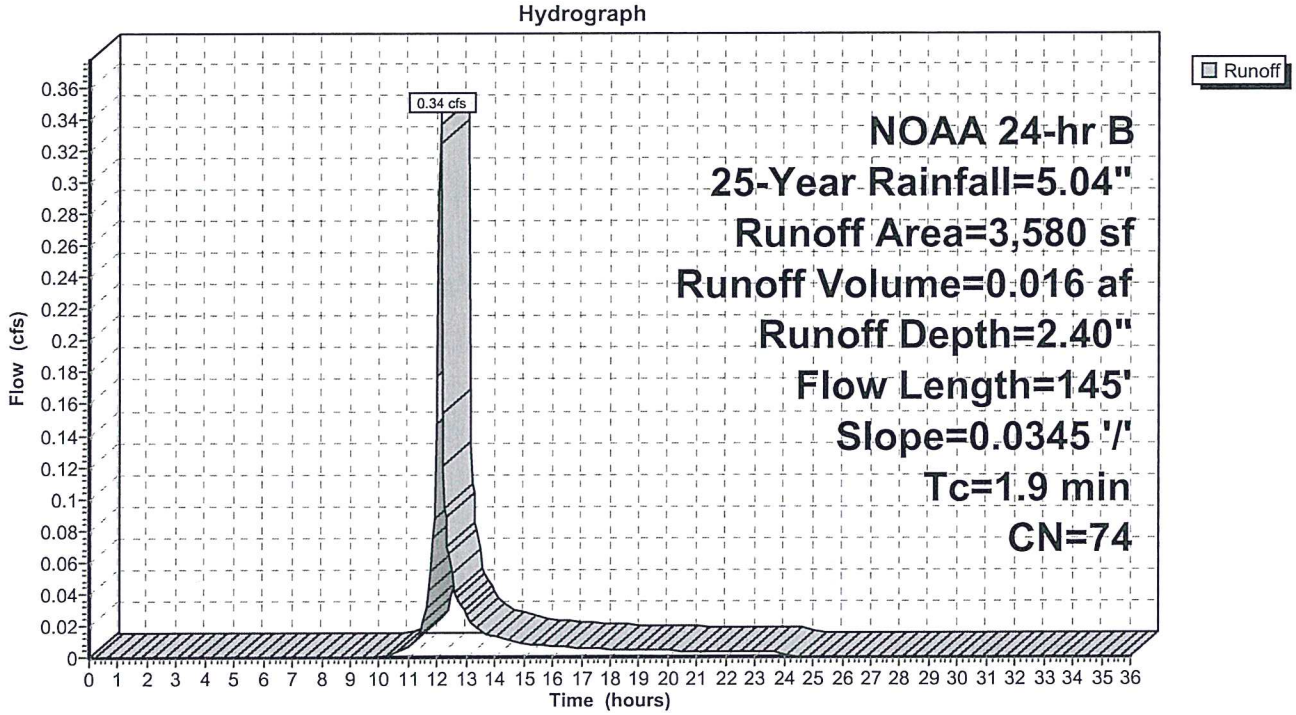
Runoff = 0.34 cfs @ 12.08 hrs, Volume= 0.016 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
3,580	74	Pasture/grassland/range, Good, HSG C
3,580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	145	0.0345	1.30		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 8S: Undetained Ground (North)



Summary for Subcatchment 9S: Undetained Ground (South)

[49] Hint: Tc<2dt may require smaller dt

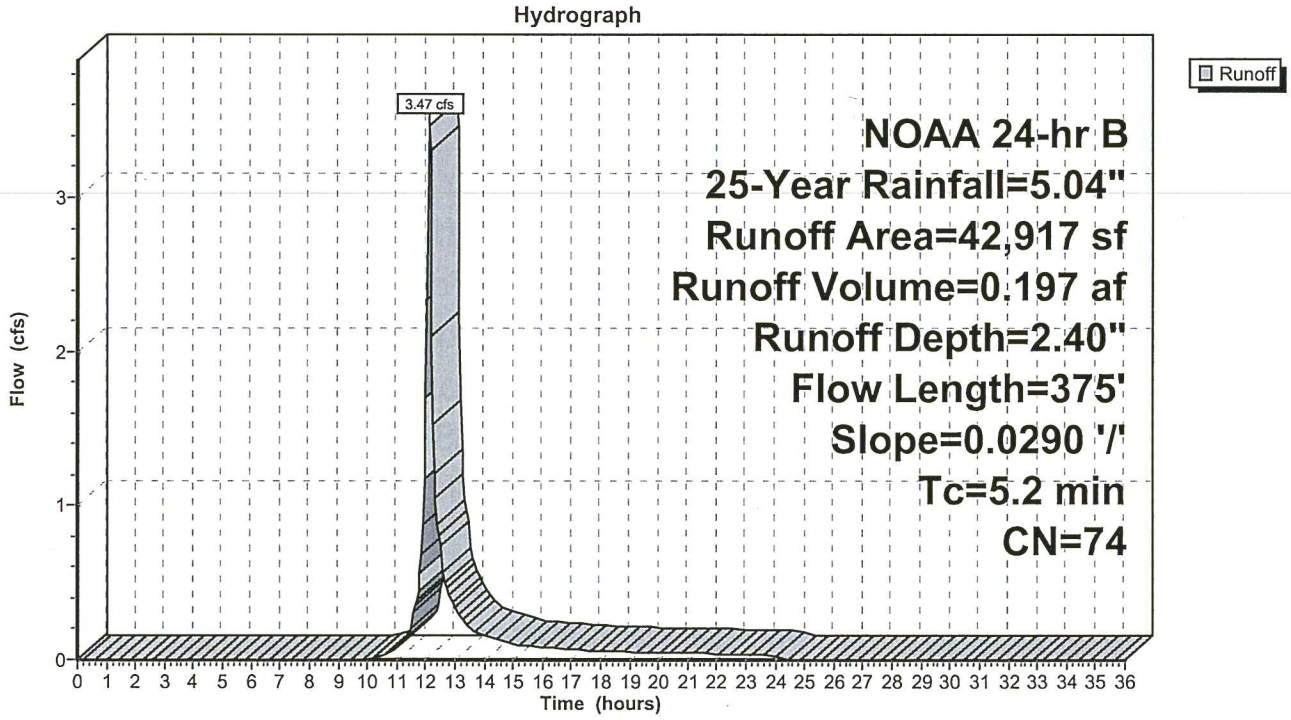
Runoff = 3.47 cfs @ 12.12 hrs, Volume= 0.197 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
42,917	74	Pasture/grassland/range, Good, HSG C
42,917		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	375	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 9S: Undetained Ground (South)



Summary for Subcatchment 10S: Undetained Ground (West)

[49] Hint: Tc<2dt may require smaller dt

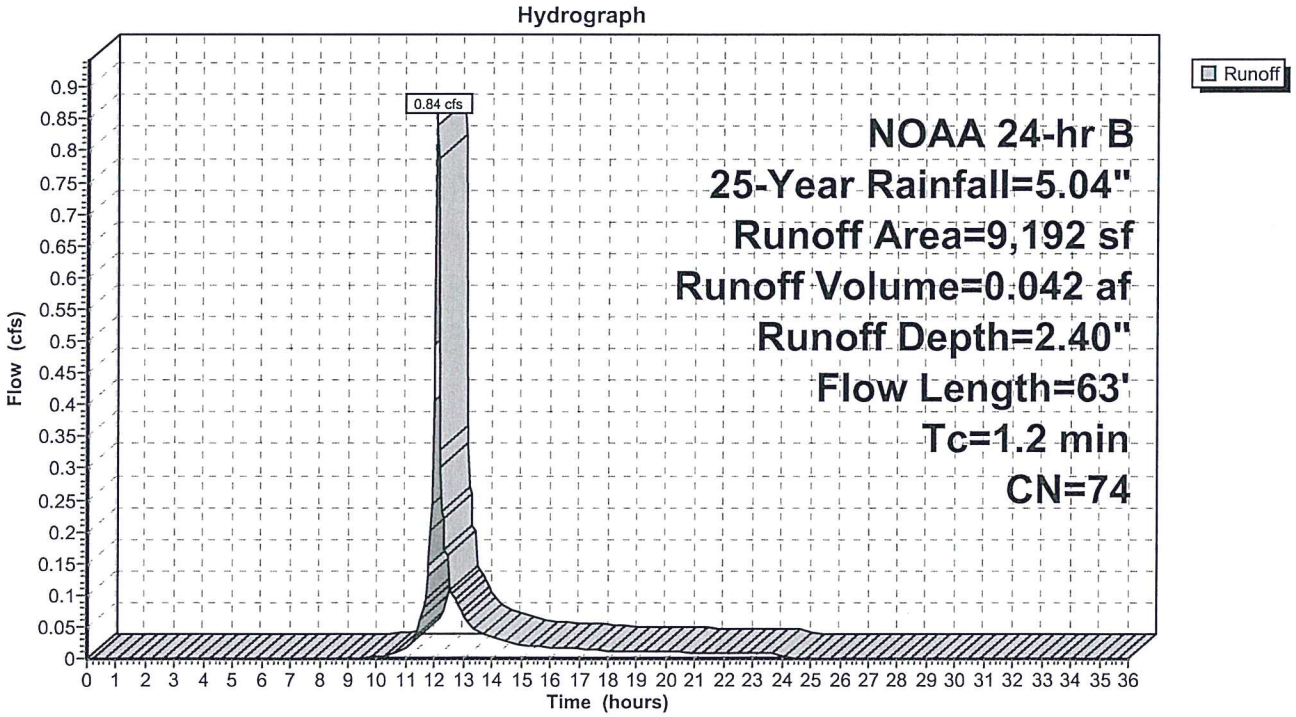
Runoff = 0.84 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
9,192	74	Pasture/grassland/range, Good, HSG C
9,192		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	11	0.0940	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
0.3	52	0.1254	2.48		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	63	Total			

Subcatchment 10S: Undetained Ground (West)



Summary for Subcatchment 11S: Undetained Ground (Spillway)

[49] Hint: Tc<2dt may require smaller dt

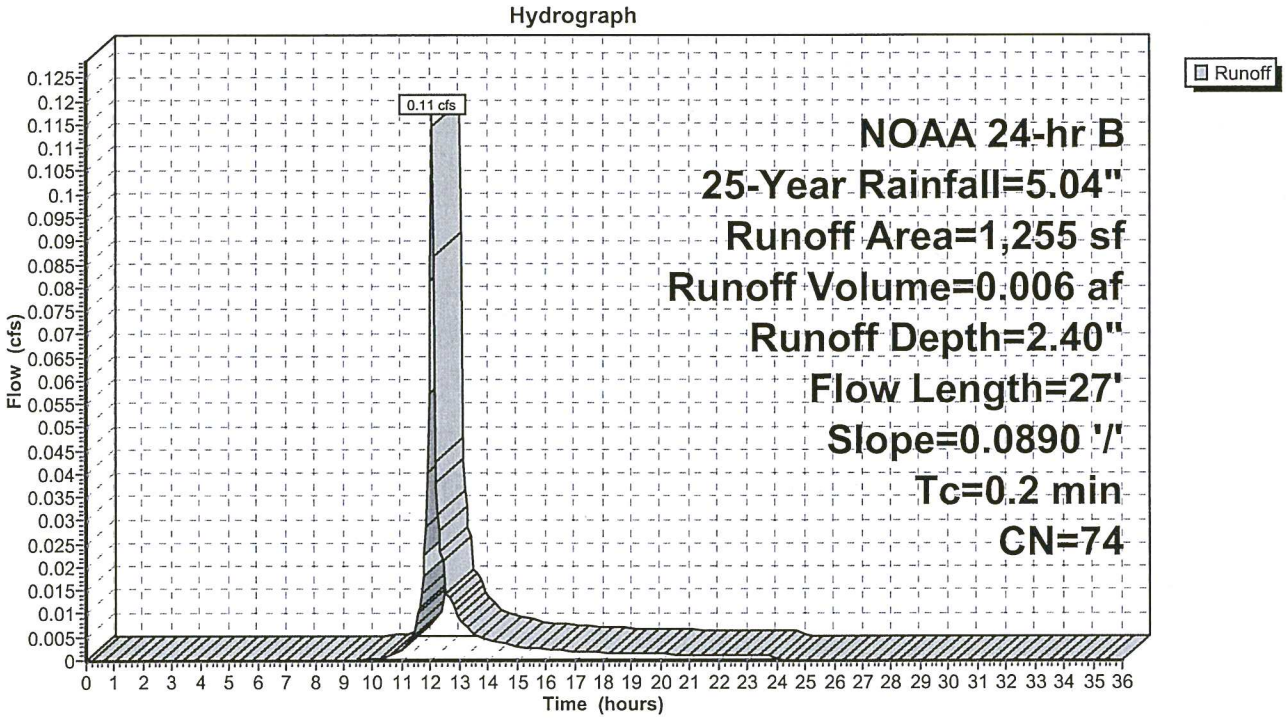
Runoff = 0.11 cfs @ 12.05 hrs, Volume= 0.006 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 25-Year Rainfall=5.04"

Area (sf)	CN	Description
1,255	74	Pasture/grassland/range, Good, HSG C
1,255		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	27	0.0890	2.09		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 11S: Undetained Ground (Spillway)



Summary for Pond 1P: Detention Pond

Inflow Area = 1.005 ac, 71.03% Impervious, Inflow Depth = 4.11" for 25-Year event
Inflow = 5.92 cfs @ 12.08 hrs, Volume= 0.344 af
Outflow = 3.20 cfs @ 12.15 hrs, Volume= 0.344 af, Atten= 46%, Lag= 4.6 min
Primary = 3.20 cfs @ 12.15 hrs, Volume= 0.344 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
Peak Elev= 902.17' @ 12.15 hrs Surf.Area= 2,230 sf Storage= 2,390 cf

Plug-Flow detention time= 12.3 min calculated for 0.343 af (100% of inflow)
Center-of-Mass det. time= 12.3 min (769.4 - 757.0)

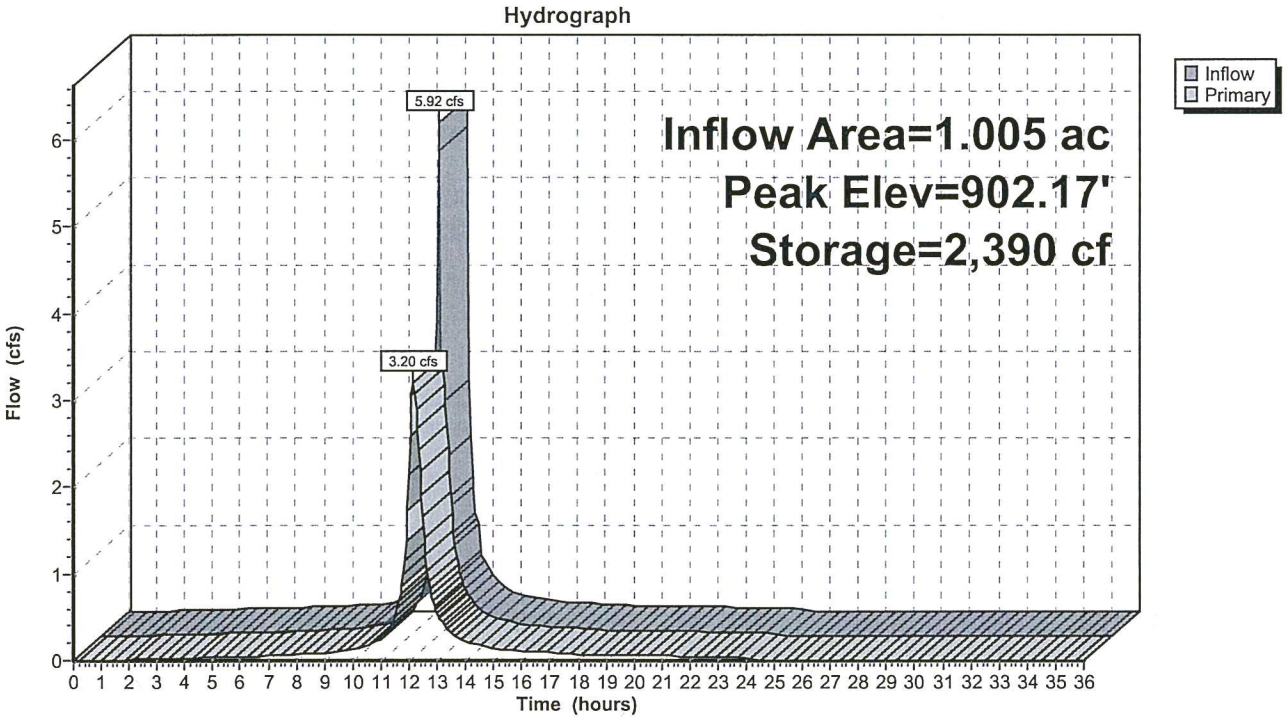
Volume	Invert	Avail.Storage	Storage Description
#1	900.75'	11,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.75	0	0	0
901.00	1,535	192	192
902.00	2,120	1,828	2,019
903.00	2,765	2,443	4,462
904.00	3,474	3,120	7,581
905.00	4,243	3,859	11,440
905.10	4,243	424	11,864

Device	Routing	Invert	Outlet Devices
#1	Primary	900.75'	**12.0" Round Culvert** L= 93.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 900.75' / 898.32' S= 0.0261 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Primary	904.60'	**8.0' long x 3.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=3.19 cfs @ 12.15 hrs HW=902.17' (Free Discharge)
↑—**1=Culvert** (Inlet Controls 3.19 cfs @ 4.07 fps)
└—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: Detention Pond

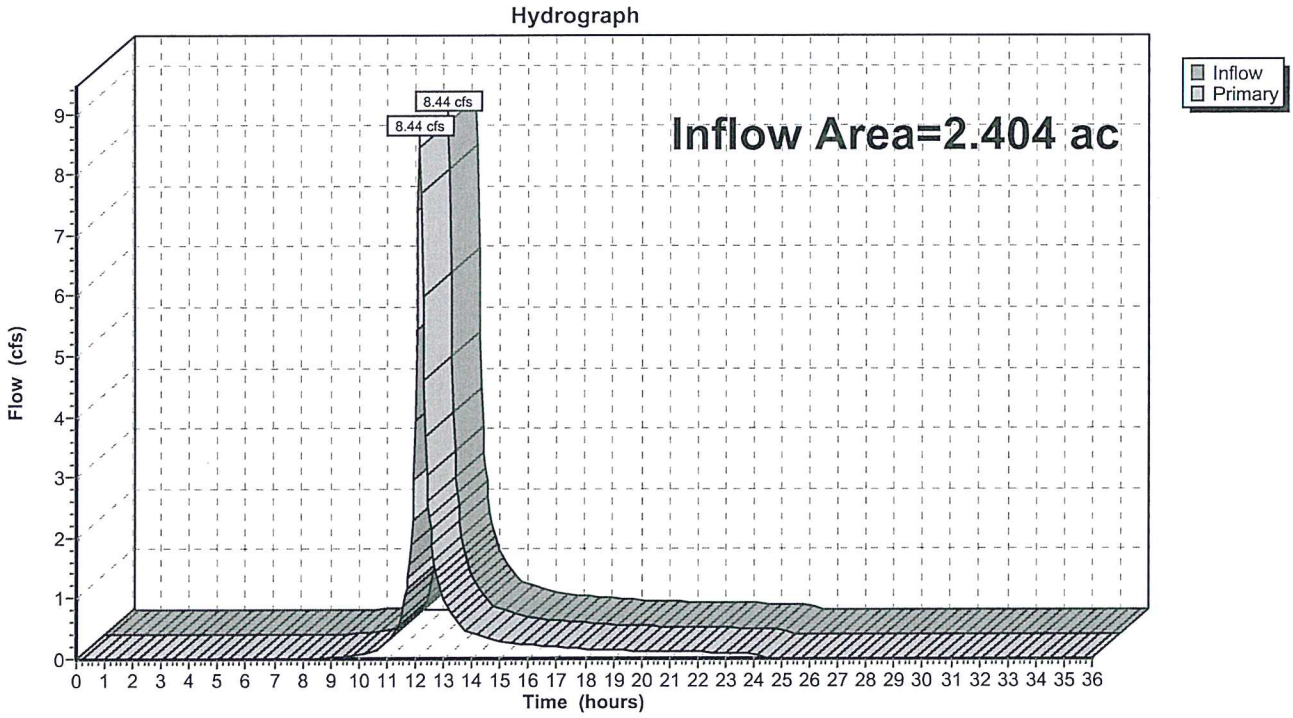


Summary for Link 1L: Existing

Inflow Area = 2.404 ac, 0.00% Impervious, Inflow Depth = 2.84" for 25-Year event
Inflow = 8.44 cfs @ 12.15 hrs, Volume= 0.568 af
Primary = 8.44 cfs @ 12.15 hrs, Volume= 0.568 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Link 1L: Existing

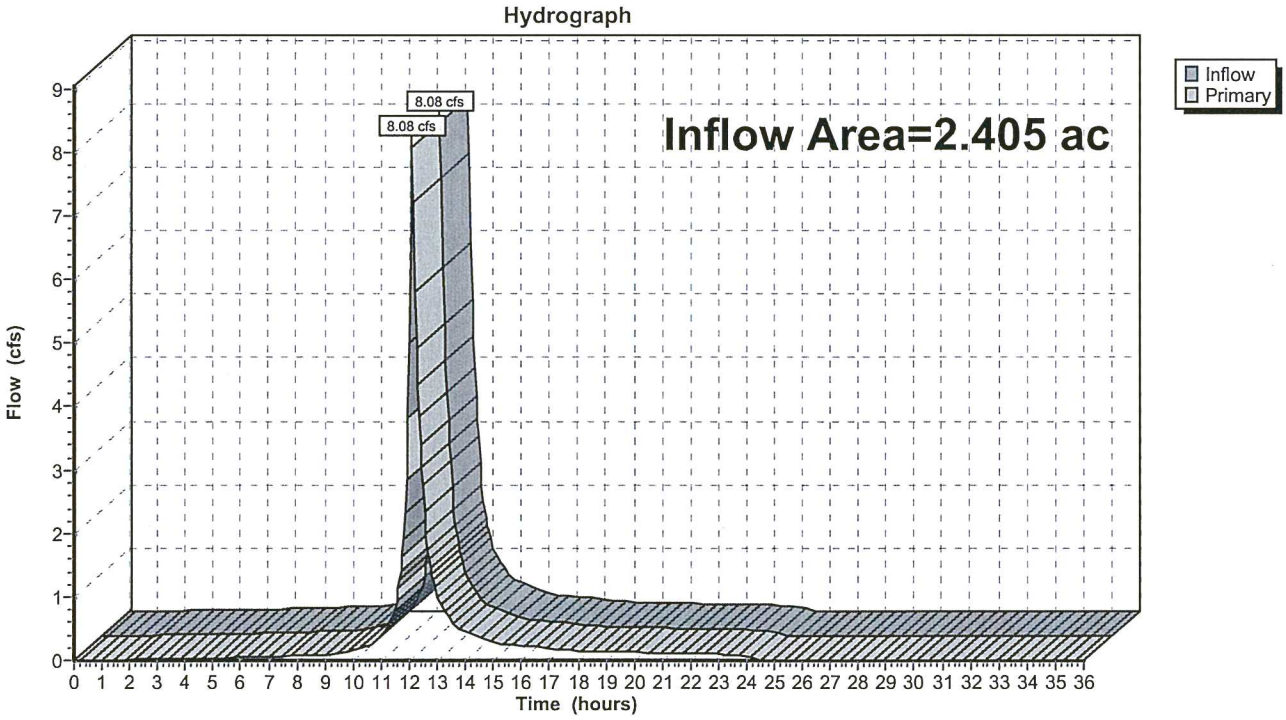


Summary for Link 2L: Proposed Link

Inflow Area = 2.405 ac, 32.82% Impervious, Inflow Depth = 3.19" for 25-Year event
Inflow = 8.08 cfs @ 12.11 hrs, Volume= 0.638 af
Primary = 8.08 cfs @ 12.11 hrs, Volume= 0.638 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Link 2L: Proposed Link



Summary for Subcatchment 1E: Existing Ground

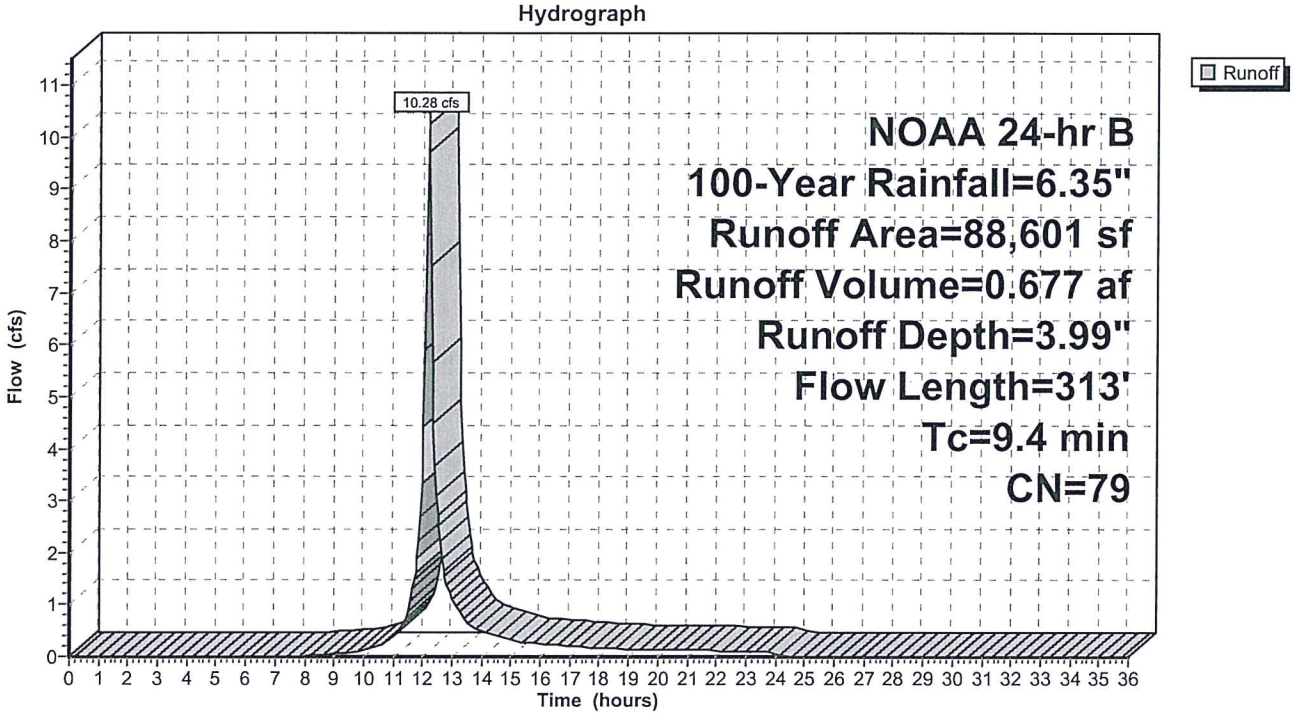
Runoff = 10.28 cfs @ 12.17 hrs, Volume= 0.677 af, Depth= 3.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
88,601	79	Pasture/grassland/range, Fair, HSG C
88,601		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	53	0.0234	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
3.7	260	0.0286	1.18		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
9.4	313	Total			

Subcatchment 1E: Existing Ground



Summary for Subcatchment 2E: Existing Ground

[49] Hint: Tc<2dt may require smaller dt

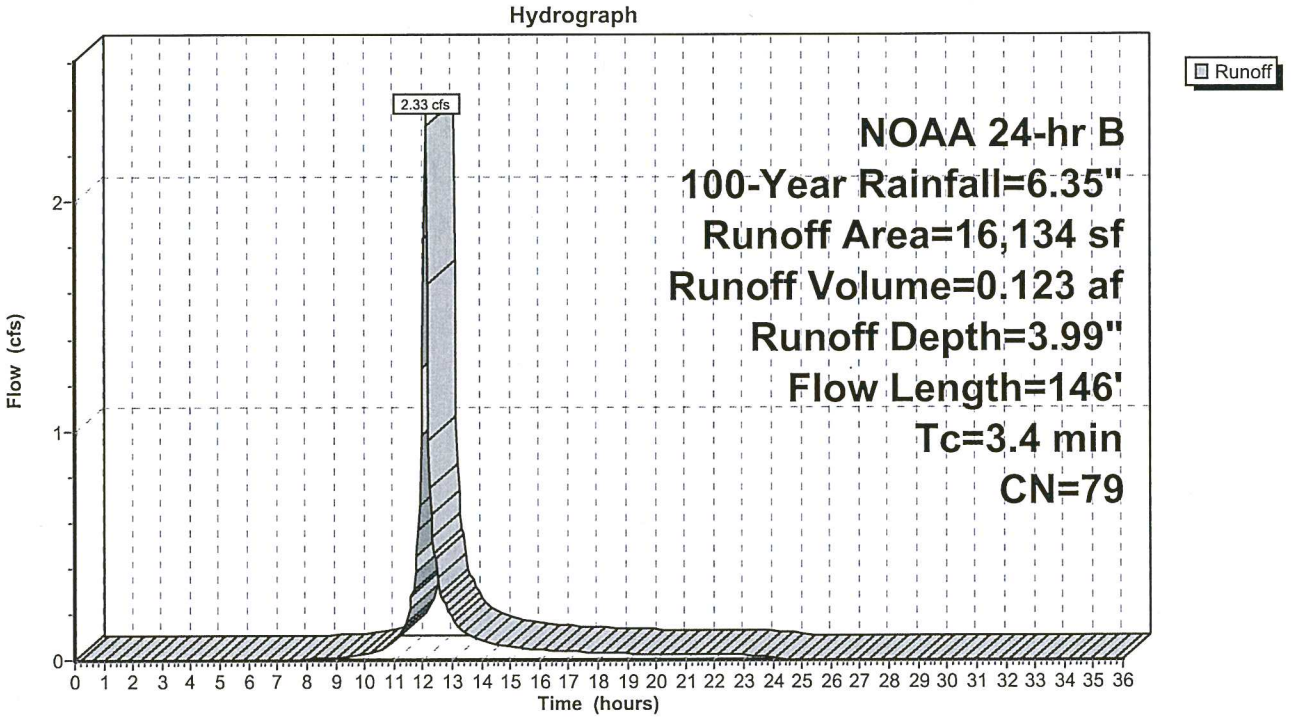
Runoff = 2.33 cfs @ 12.10 hrs, Volume= 0.123 af, Depth= 3.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
16,134	79	Pasture/grassland/range, Fair, HSG C
16,134		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	24	0.0519	0.18		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
1.2	122	0.0630	1.76		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	146	Total			

Subcatchment 2E: Existing Ground



Summary for Subcatchment 3S: Building

[49] Hint: Tc<2dt may require smaller dt

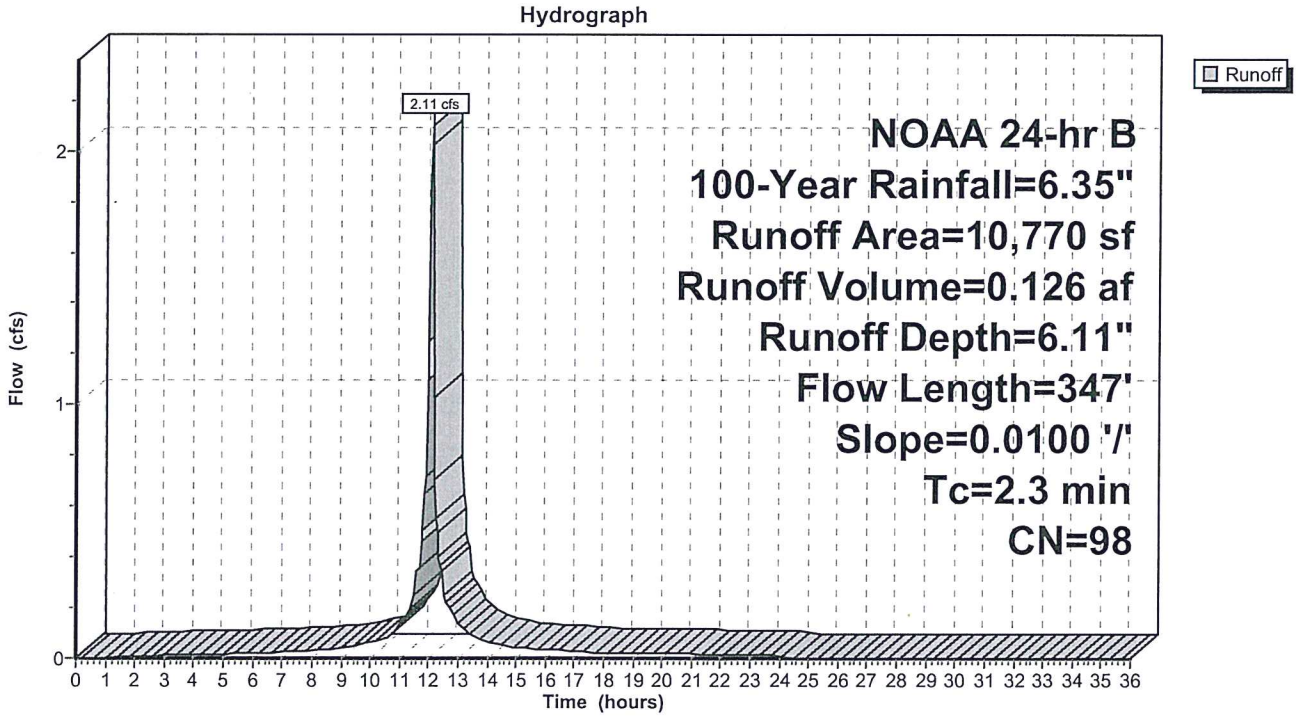
Runoff = 2.11 cfs @ 12.08 hrs, Volume= 0.126 af, Depth= 6.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
10,770	98	Roofs, HSG C
10,770		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	77	0.0100	0.96		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
1.0	270	0.0100	4.54	3.56	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
2.3	347	Total			

Subcatchment 3S: Building



Summary for Subcatchment 4S: Parking

[49] Hint: Tc<2dt may require smaller dt

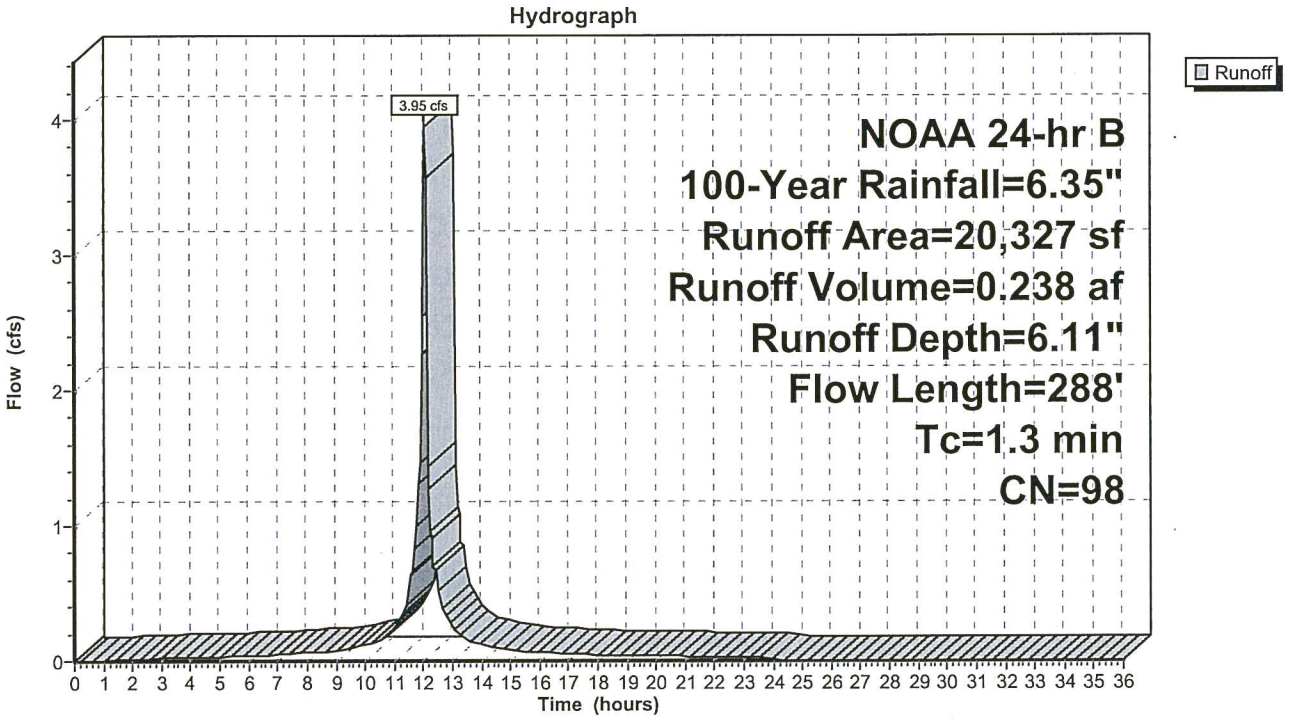
Runoff = 3.95 cfs @ 12.07 hrs, Volume= 0.238 af, Depth= 6.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
20,327	98	Paved parking, HSG C
20,327		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	11	0.0200	0.86		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
0.4	50	0.0110	2.13		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.7	227	0.0100	5.26	6.46	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior
1.3	288	Total			

Subcatchment 4S: Parking



Summary for Subcatchment 5S: Pond Area

[49] Hint: Tc<2dt may require smaller dt

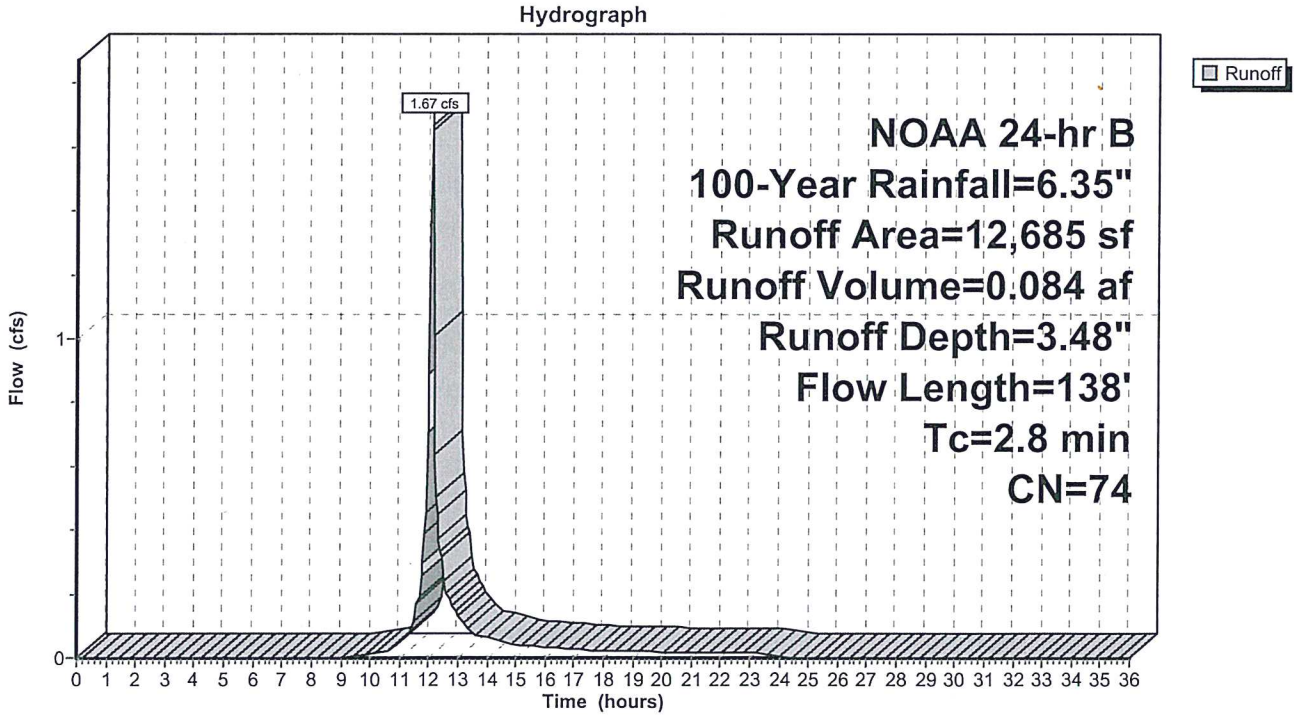
Runoff = 1.67 cfs @ 12.09 hrs, Volume= 0.084 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
12,685	74	Pasture/grassland/range, Good, HSG C
12,685		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	18	0.3300	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
2.0	120	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.8	138	Total			

Subcatchment 5S: Pond Area



Summary for Subcatchment 6S: Undetained Entrance

[49] Hint: Tc<2dt may require smaller dt

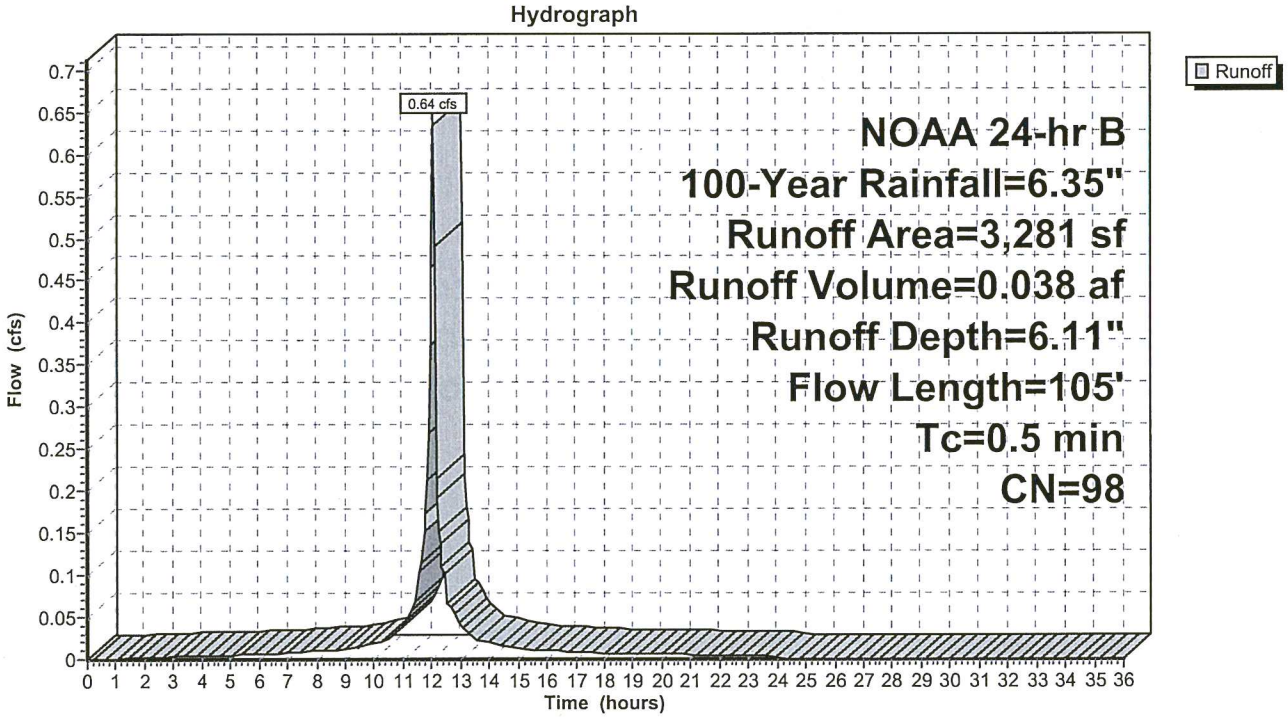
Runoff = 0.64 cfs @ 12.05 hrs, Volume= 0.038 af, Depth= 6.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
3,281	98	Paved parking, HSG C
3,281		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	7	0.0410	1.04		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
0.4	98	0.0415	4.14		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.5	105	Total			

Subcatchment 6S: Undetained Entrance



Summary for Subcatchment 7S: Undetained Ground (East Entrance)

[49] Hint: Tc<2dt may require smaller dt

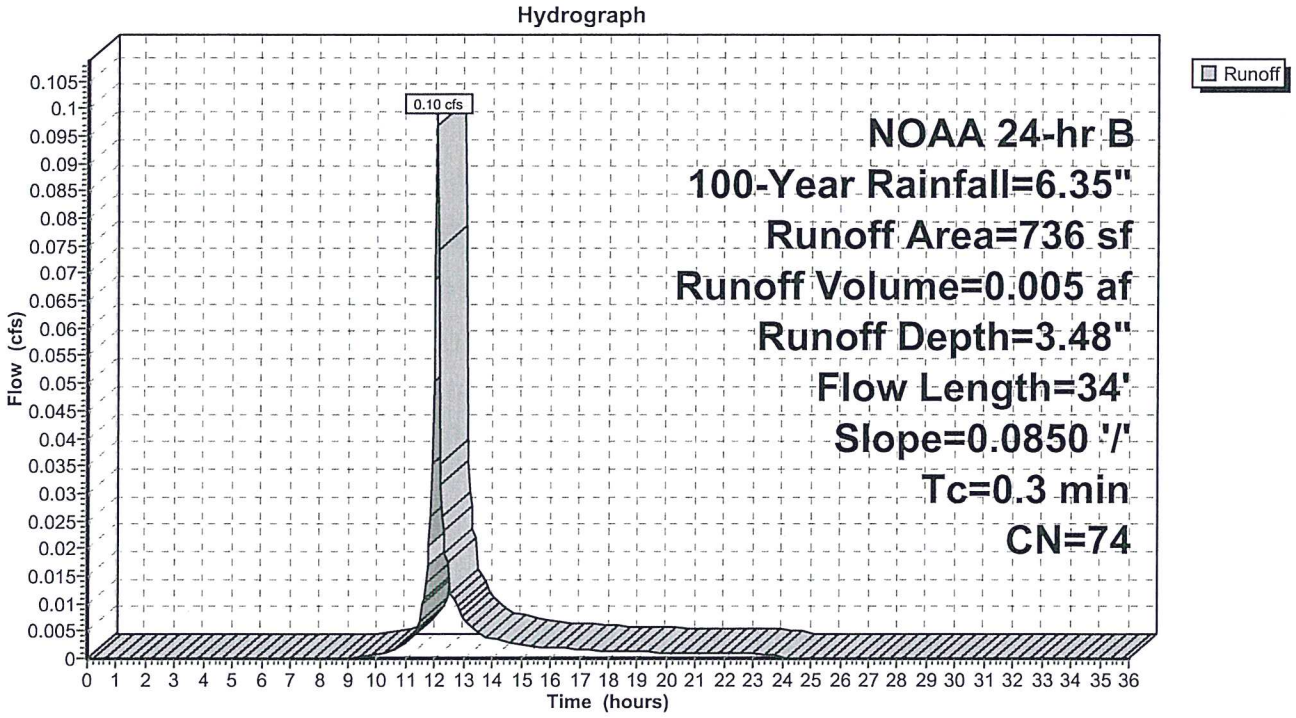
Runoff = 0.10 cfs @ 12.05 hrs, Volume= 0.005 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
736	74	Pasture/grassland/range, Good, HSG C
736		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	34	0.0850	2.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 7S: Undetained Ground (East Entrance)



Summary for Subcatchment 8S: Undetained Ground (North)

[49] Hint: Tc<2dt may require smaller dt

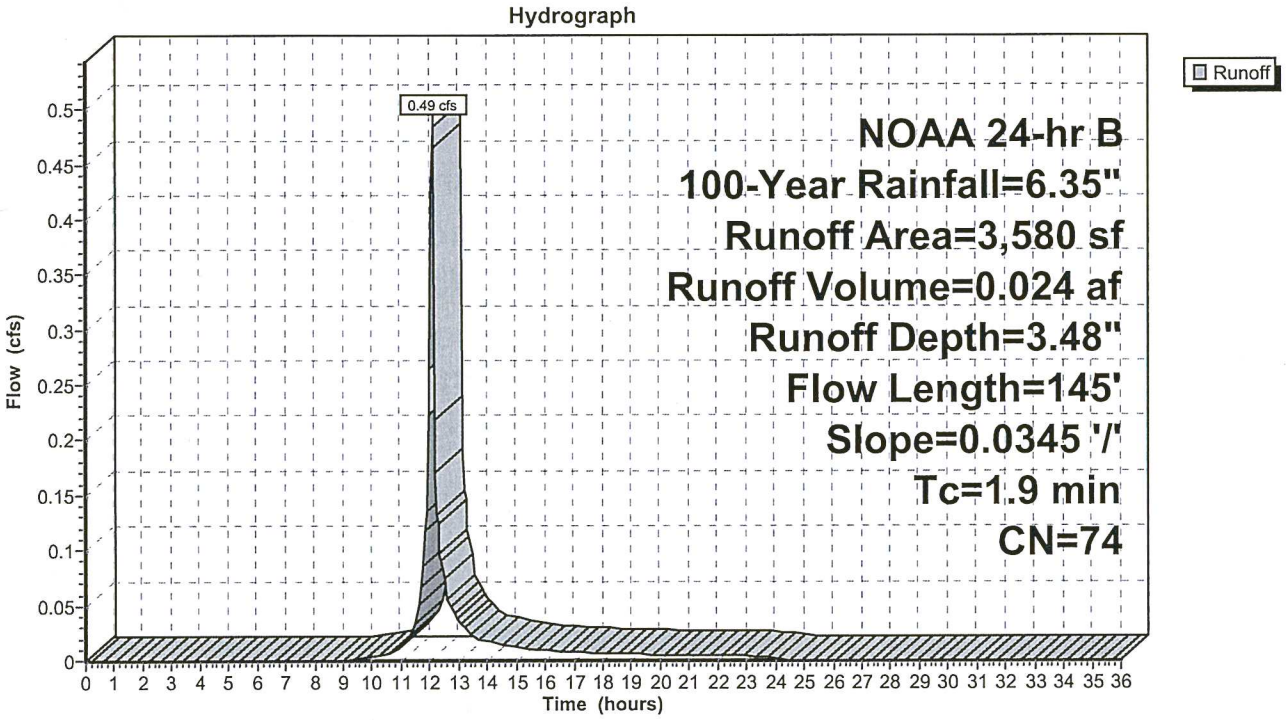
Runoff = 0.49 cfs @ 12.08 hrs, Volume= 0.024 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
3,580	74	Pasture/grassland/range, Good, HSG C
3,580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	145	0.0345	1.30		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 8S: Undetained Ground (North)



Summary for Subcatchment 9S: Undetained Ground (South)

[49] Hint: Tc<2dt may require smaller dt

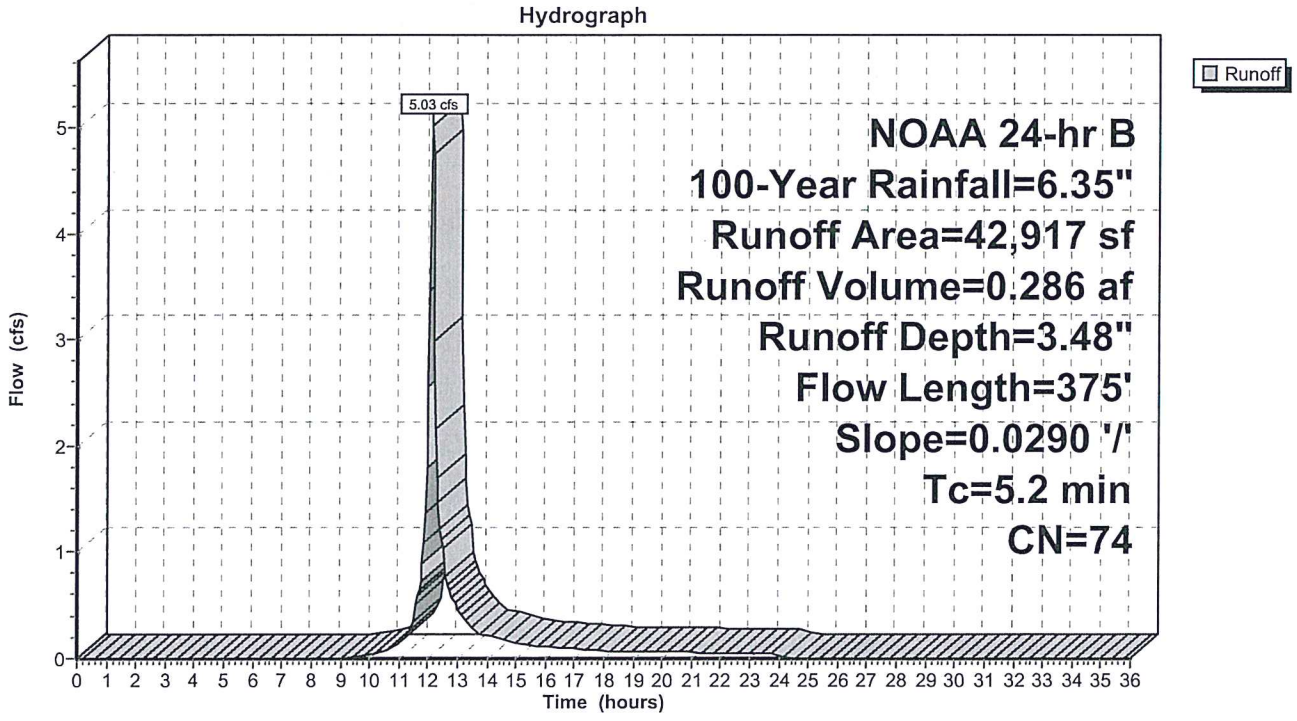
Runoff = 5.03 cfs @ 12.12 hrs, Volume= 0.286 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
42,917	74	Pasture/grassland/range, Good, HSG C
42,917		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	375	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 9S: Undetained Ground (South)



Summary for Subcatchment 10S: Undetained Ground (West)

[49] Hint: Tc<2dt may require smaller dt

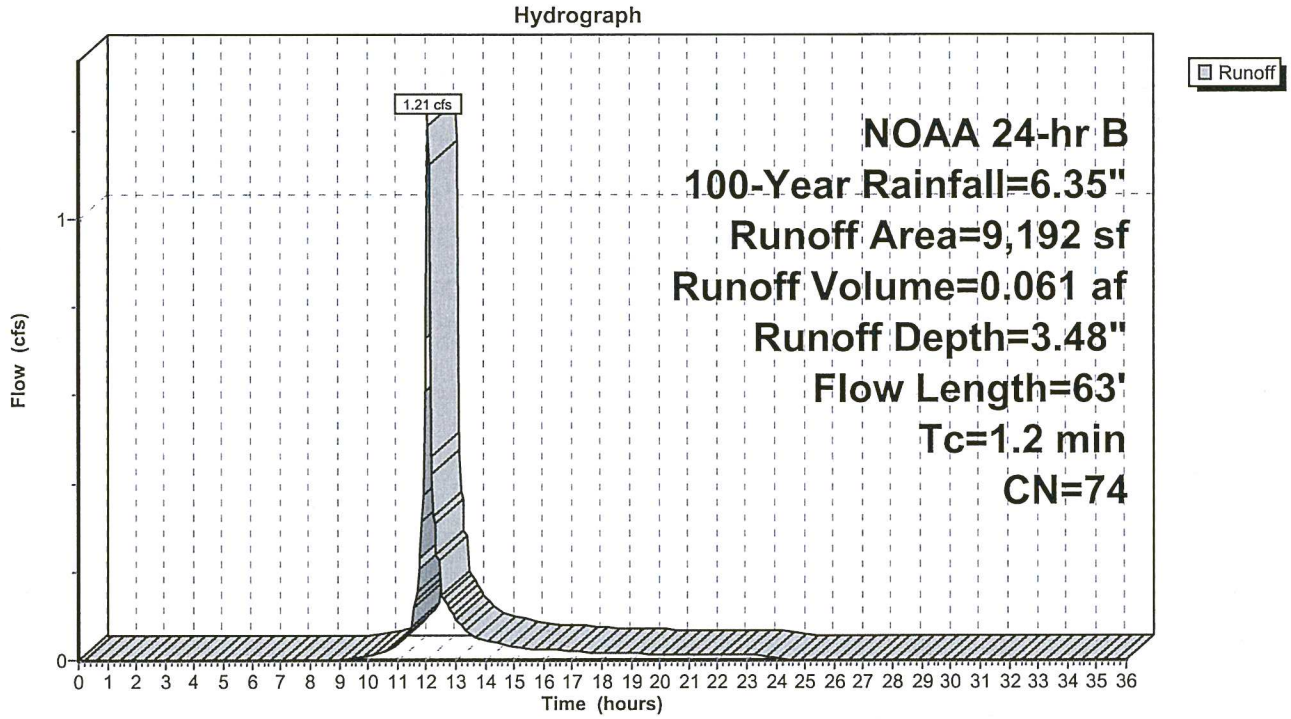
Runoff = 1.21 cfs @ 12.07 hrs, Volume= 0.061 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
9,192	74	Pasture/grassland/range, Good, HSG C
9,192		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	11	0.0940	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
0.3	52	0.1254	2.48		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	63	Total			

Subcatchment 10S: Undetained Ground (West)



Summary for Subcatchment 11S: Undetained Ground (Spillway)

[49] Hint: Tc<2dt may require smaller dt

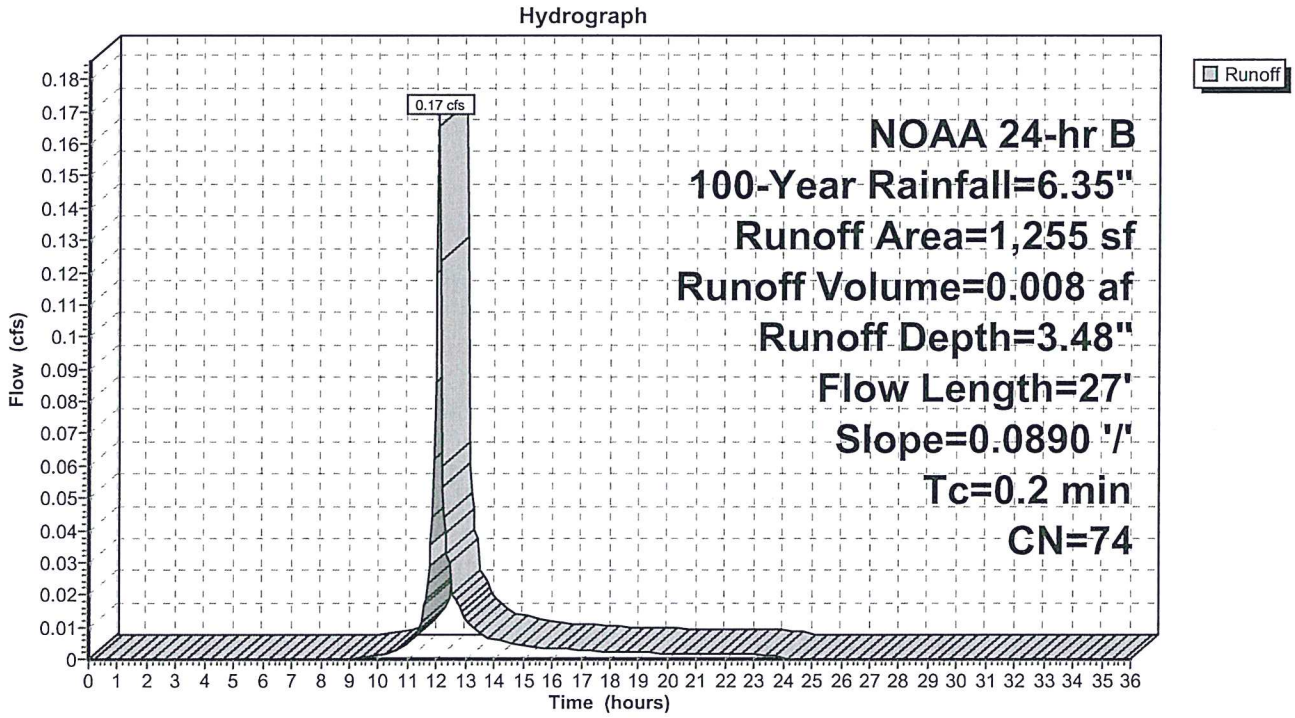
Runoff = 0.17 cfs @ 12.05 hrs, Volume= 0.008 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
1,255	74	Pasture/grassland/range, Good, HSG C
1,255		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	27	0.0890	2.09		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps

Subcatchment 11S: Undetained Ground (Spillway)



Summary for Pond 1P: Detention Pond

Inflow Area = 1.005 ac, 71.03% Impervious, Inflow Depth = 5.35" for 100-Year event
Inflow = 7.68 cfs @ 12.08 hrs, Volume= 0.448 af
Outflow = 3.80 cfs @ 12.16 hrs, Volume= 0.448 af, Atten= 51%, Lag= 5.0 min
Primary = 3.80 cfs @ 12.16 hrs, Volume= 0.448 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
Peak Elev= 902.54' @ 12.16 hrs Surf.Area= 2,471 sf Storage= 3,270 cf

Plug-Flow detention time= 12.6 min calculated for 0.447 af (100% of inflow)
Center-of-Mass det. time= 12.7 min (766.7 - 754.1)

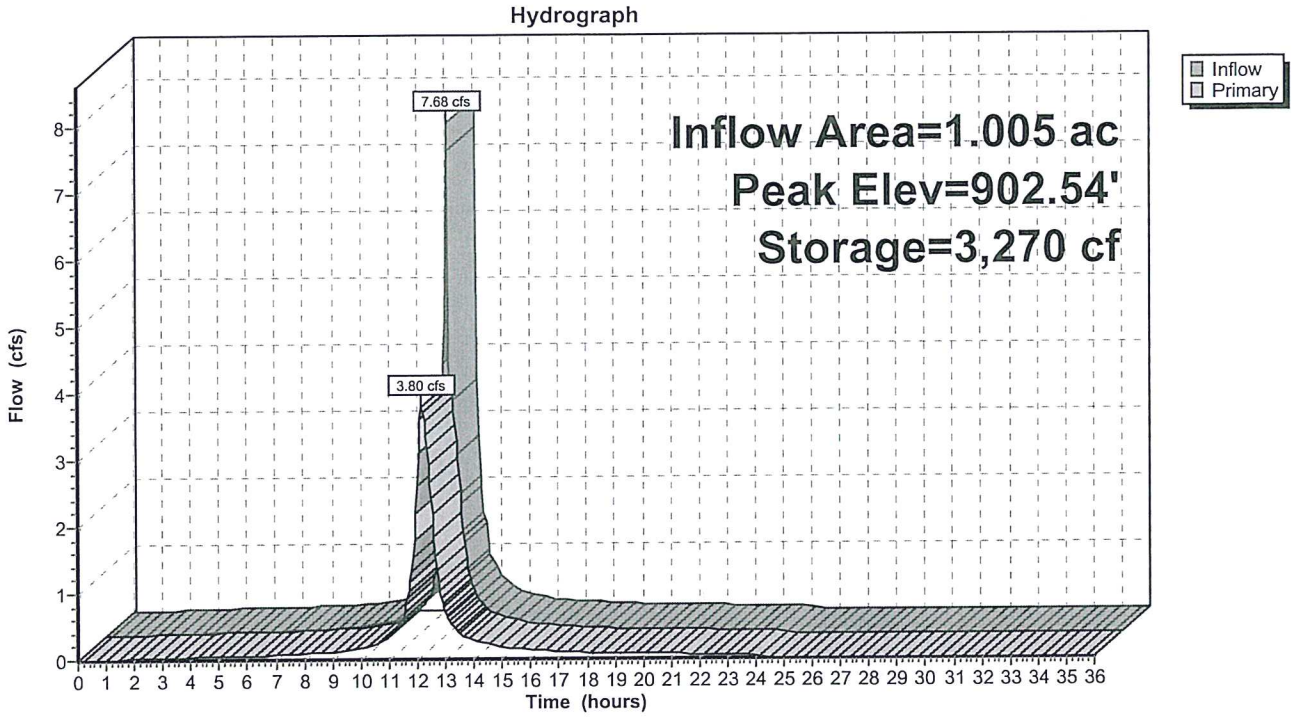
Volume	Invert	Avail.Storage	Storage Description
#1	900.75'	11,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.75	0	0	0
901.00	1,535	192	192
902.00	2,120	1,828	2,019
903.00	2,765	2,443	4,462
904.00	3,474	3,120	7,581
905.00	4,243	3,859	11,440
905.10	4,243	424	11,864

Device	Routing	Invert	Outlet Devices
#1	Primary	900.75'	**12.0" Round Culvert** L= 93.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 900.75' / 898.32' S= 0.0261 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Primary	904.60'	**8.0' long x 3.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=3.78 cfs @ 12.16 hrs HW=902.53' (Free Discharge)
1=Culvert (Inlet Controls 3.78 cfs @ 4.81 fps)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 1P: Detention Pond

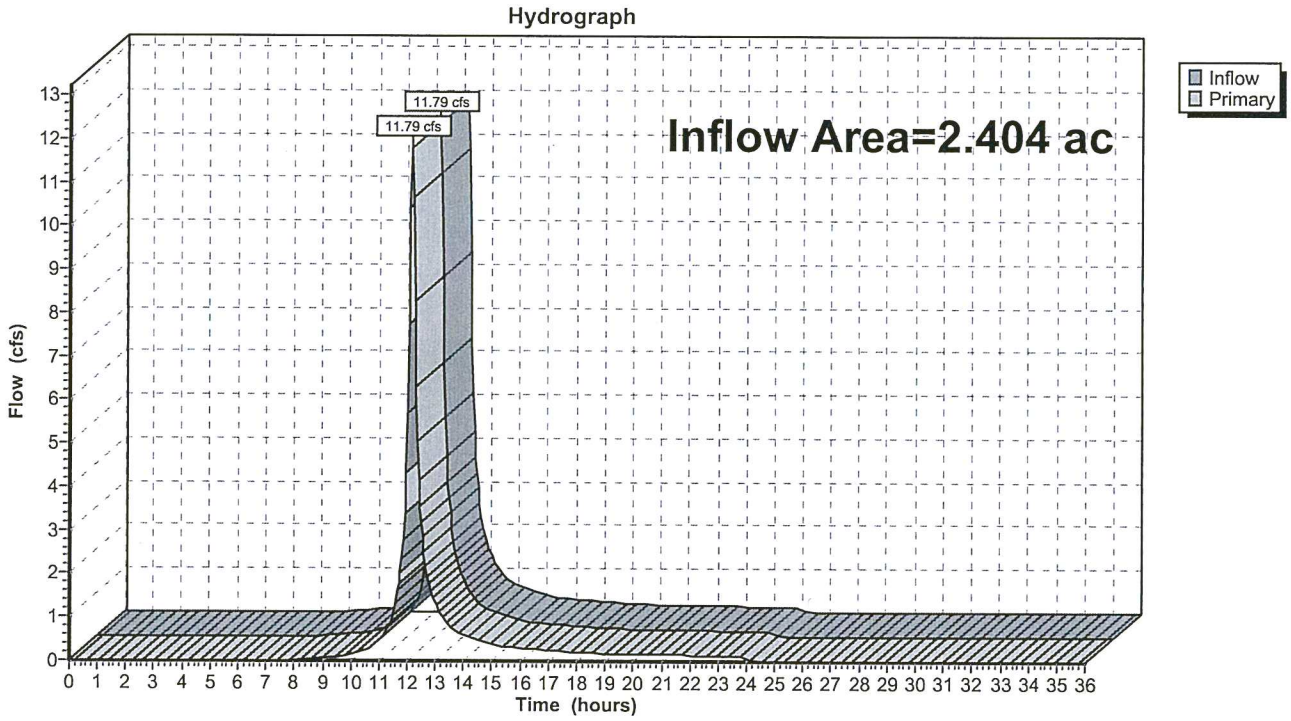


Summary for Link 1L: Existing

Inflow Area = 2.404 ac, 0.00% Impervious, Inflow Depth = 3.99" for 100-Year event
Inflow = 11.79 cfs @ 12.15 hrs, Volume= 0.800 af
Primary = 11.79 cfs @ 12.15 hrs, Volume= 0.800 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Link 1L: Existing

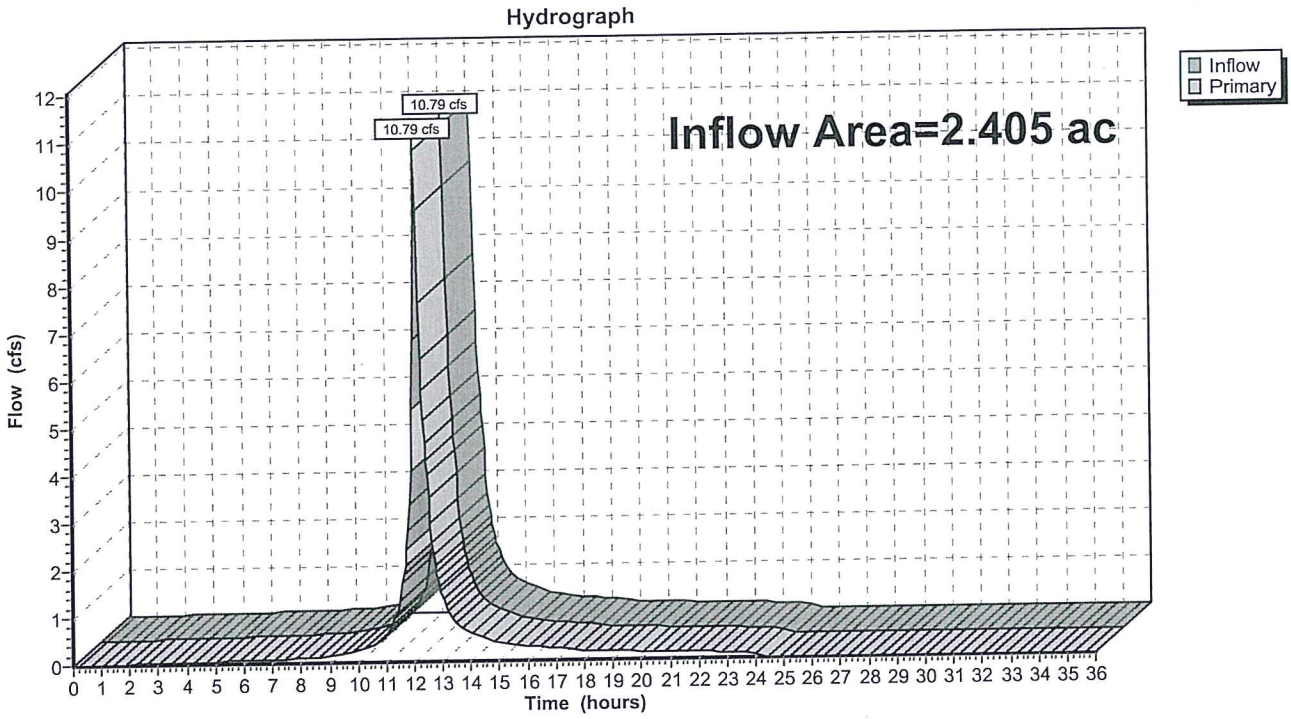


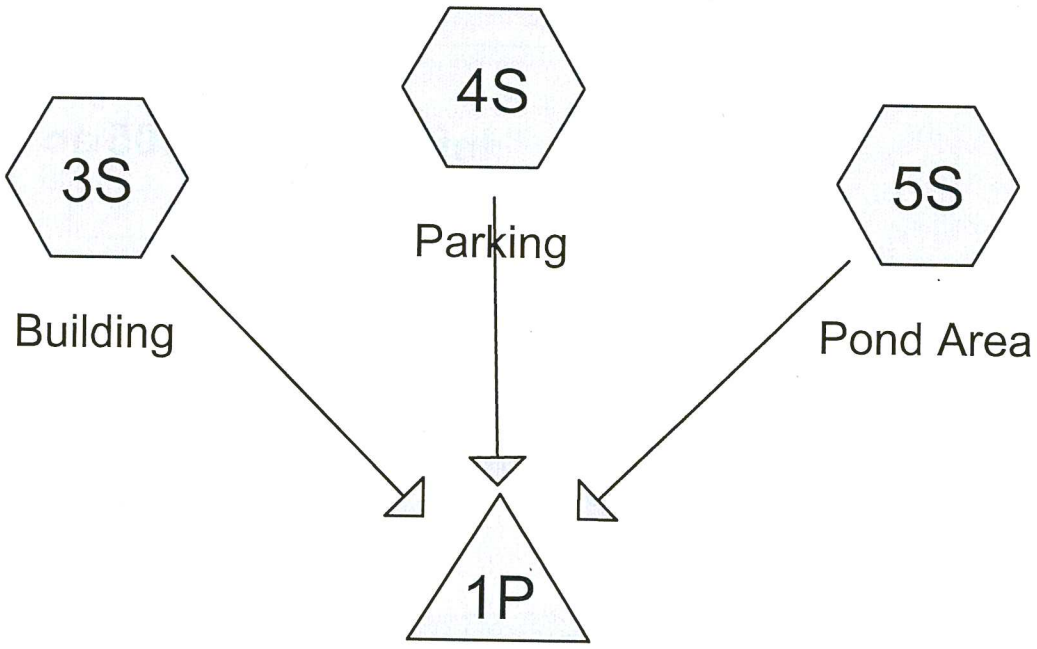
Summary for Link 2L: Proposed Link

Inflow Area = 2.405 ac, 32.82% Impervious, Inflow Depth = 4.34" for 100-Year event
Inflow = 10.79 cfs @ 12.10 hrs, Volume= 0.871 af
Primary = 10.79 cfs @ 12.10 hrs, Volume= 0.871 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Link 2L: Proposed Link





Detention Pond

Subcat Reach Pond Link

Routing Diagram for 241354 Waco Weir Test
Prepared by Vantage Engineering PLC, Printed 10/29/2024

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	100-Year	NOAA 24-hr	B	Default	24.00	1	6.35	2

Summary for Subcatchment 3S: Building

[49] Hint: Tc<2dt may require smaller dt

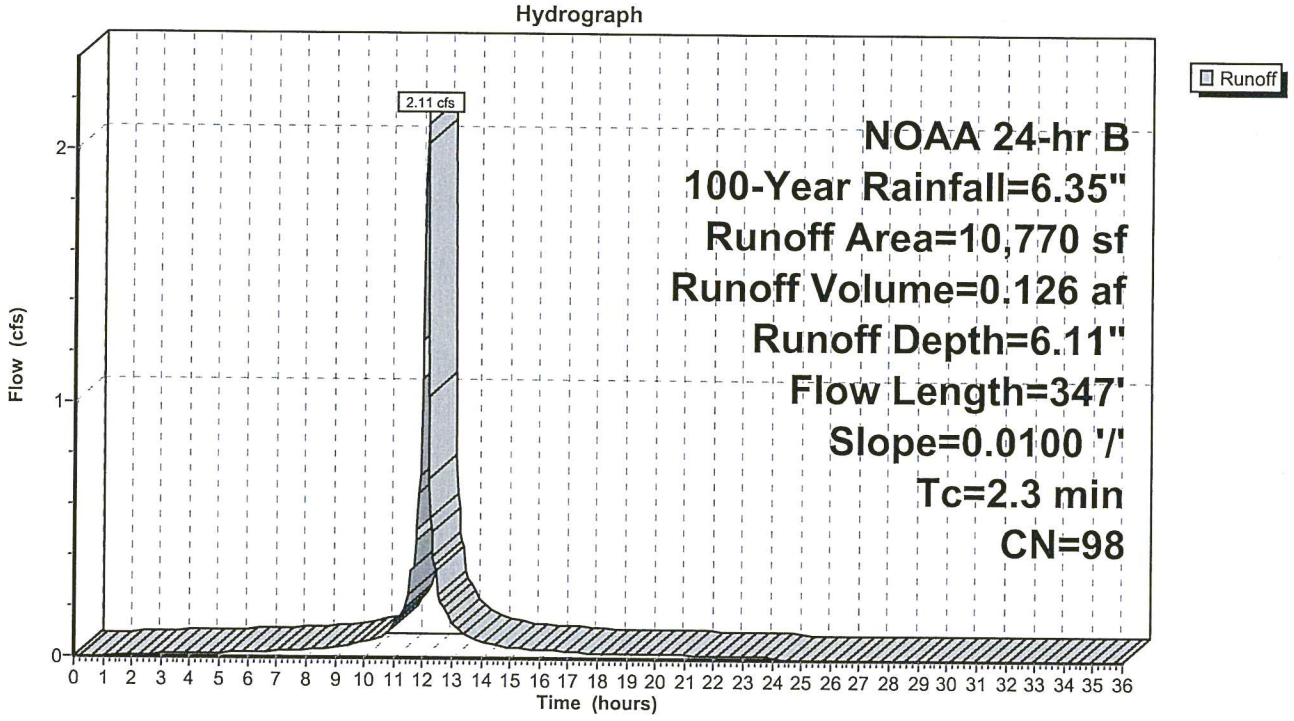
Runoff = 2.11 cfs @ 12.08 hrs, Volume= 0.126 af, Depth= 6.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
10,770	98	Roofs, HSG C
10,770		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	77	0.0100	0.96		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
1.0	270	0.0100	4.54	3.56	**Pipe Channel,** 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
2.3	347	Total			

Subcatchment 3S: Building



Summary for Subcatchment 4S: Parking

[49] Hint: Tc<2dt may require smaller dt

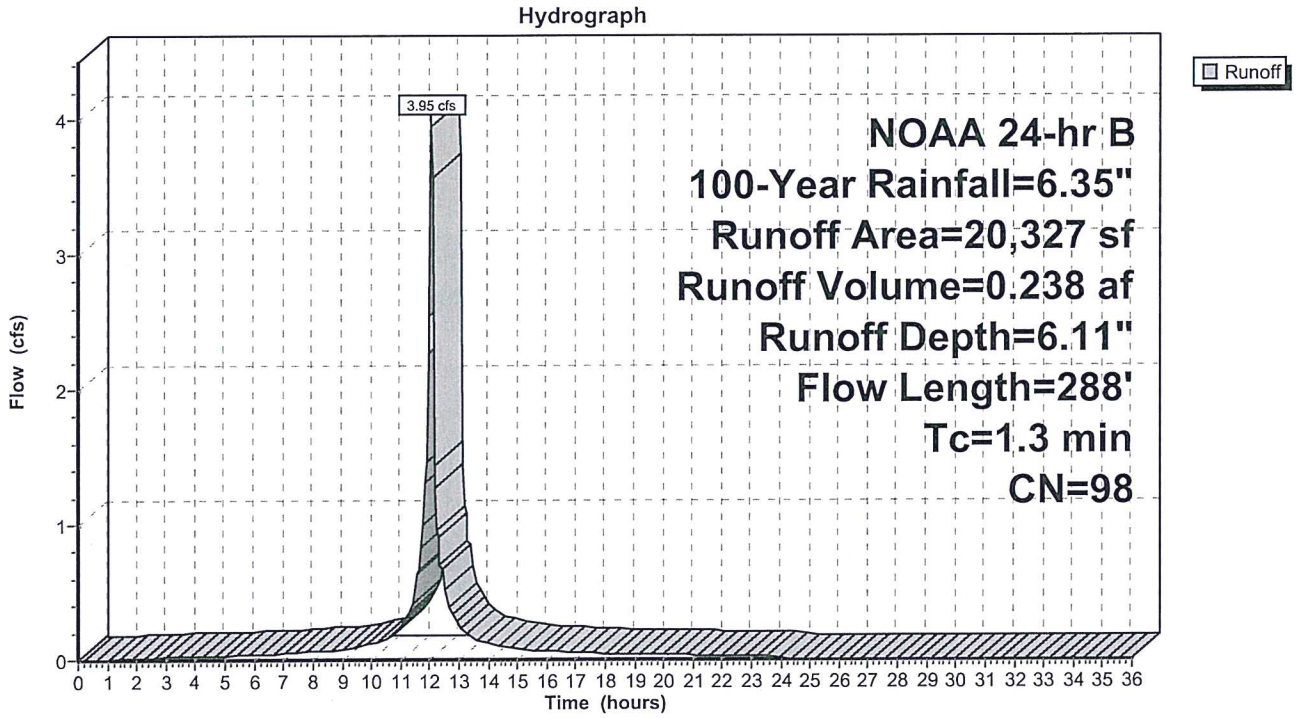
Runoff = 3.95 cfs @ 12.07 hrs, Volume= 0.238 af, Depth= 6.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
20,327	98	Paved parking, HSG C
20,327		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	11	0.0200	0.86		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.00"
0.4	50	0.0110	2.13		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.7	227	0.0100	5.26	6.46	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior
1.3	288	Total			

Subcatchment 4S: Parking



Summary for Subcatchment 5S: Pond Area

[49] Hint: Tc<2dt may require smaller dt

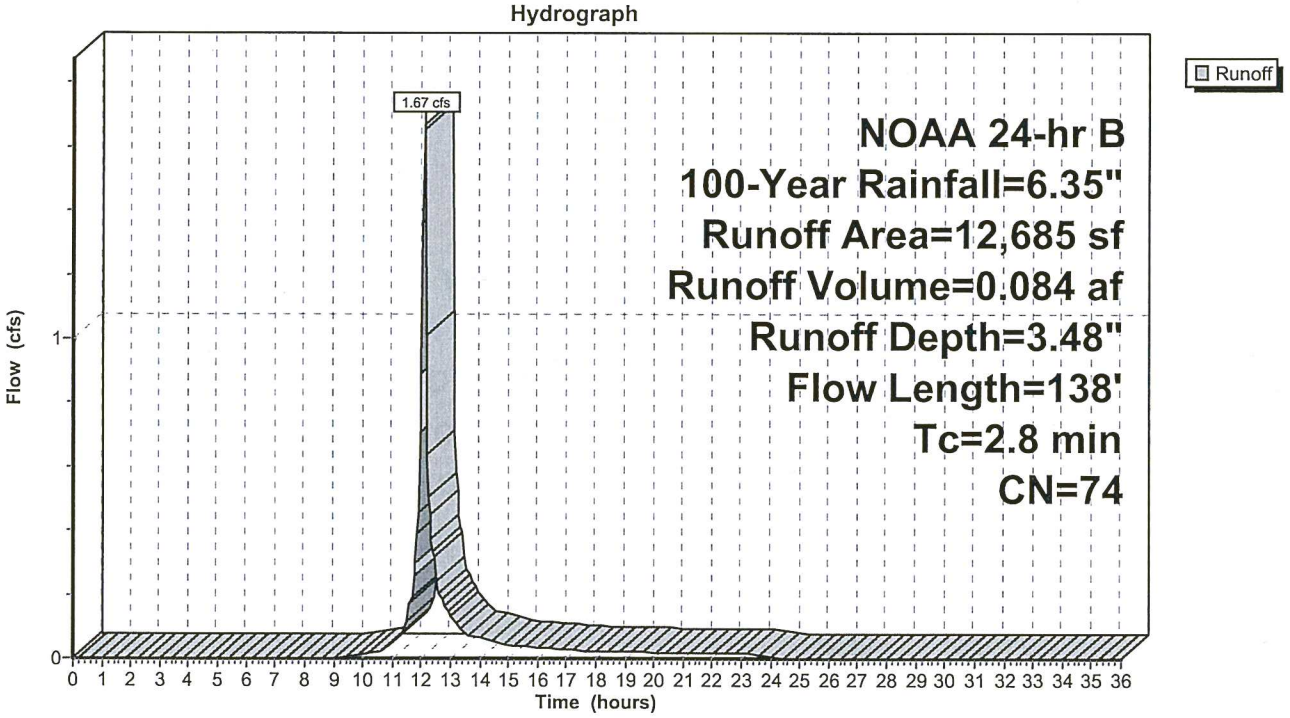
Runoff = 1.67 cfs @ 12.09 hrs, Volume= 0.084 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
NOAA 24-hr B 100-Year Rainfall=6.35"

Area (sf)	CN	Description
12,685	74	Pasture/grassland/range, Good, HSG C
12,685		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	18	0.3300	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.00"
2.0	120	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.8	138	Total			

Subcatchment 5S: Pond Area



Summary for Pond 1P: Detention Pond

Inflow Area = 1.005 ac, 71.03% Impervious, Inflow Depth = 5.35" for 100-Year event
Inflow = 7.68 cfs @ 12.08 hrs, Volume= 0.448 af
Outflow = 2.70 cfs @ 12.21 hrs, Volume= 0.223 af, Atten= 65%, Lag= 7.9 min
Primary = 2.70 cfs @ 12.21 hrs, Volume= 0.223 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
Peak Elev= 904.86' @ 12.21 hrs Surf.Area= 4,138 sf Storage= 10,868 cf

Plug-Flow detention time= 241.1 min calculated for 0.223 af (50% of inflow)
Center-of-Mass det. time= 127.0 min (881.1 - 754.1)

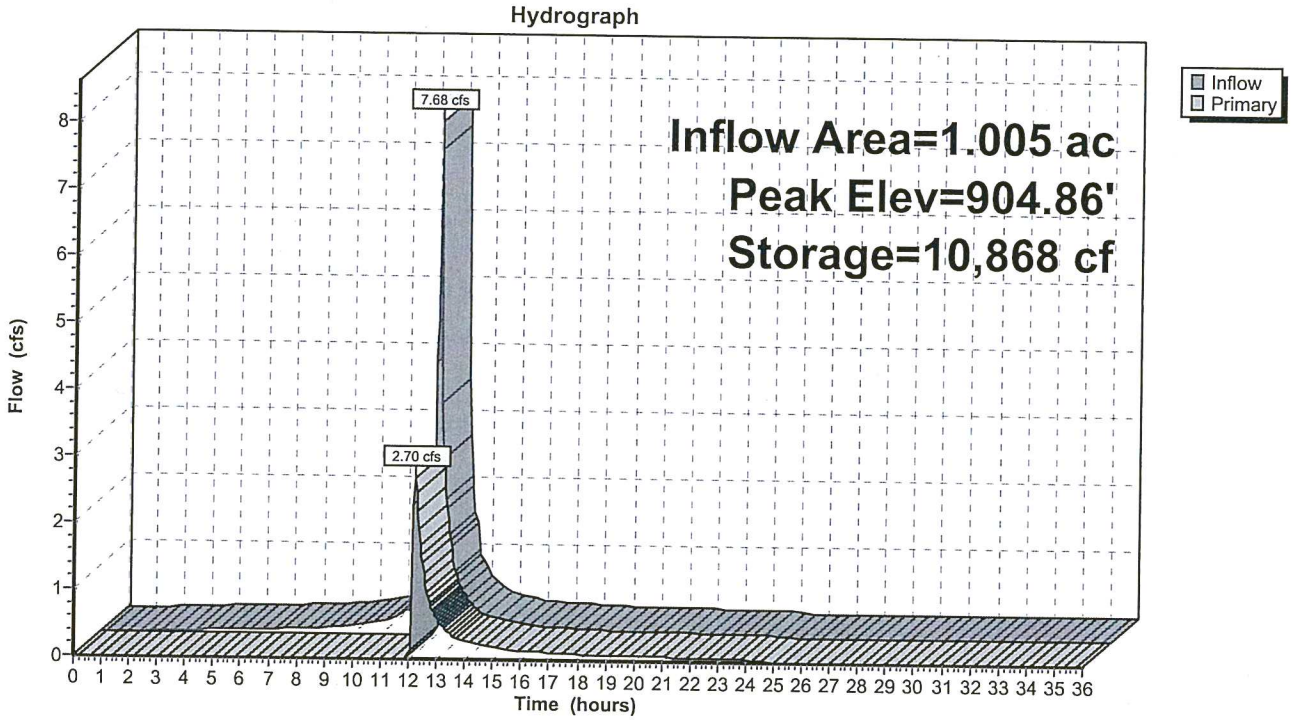
Volume	Invert	Avail.Storage	Storage Description
#1	900.75'	11,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
900.75	0	0	0
901.00	1,535	192	192
902.00	2,120	1,828	2,019
903.00	2,765	2,443	4,462
904.00	3,474	3,120	7,581
905.00	4,243	3,859	11,440
905.10	4,243	424	11,864

Device	Routing	Invert	Outlet Devices
#1	Primary	904.60'	**8.0' long x 3.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=2.65 cfs @ 12.21 hrs HW=904.86' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 2.65 cfs @ 1.27 fps)

Pond 1P: Detention Pond



SCALE 1" = 30'

0 15 30 60

PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL CONFER WITH ALL PUBLIC OR COMPANIES, AGENCIES, OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE OF THE CONSTRUCTION.

UNDERGROUND UTILITIES AND SERVICES, IF ANY, ARE SHOWN IN THEIR APPROXIMATE WAS ACCORDING TO THE BEST INFORMATION AVAILABLE. THE LOCATIONS ARE INTENDED A BLADE CAN CANNOT BE GUARANTEED ACCURATE. THE CONTRACTOR SHALL BE SIBLE FOR:

ACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION, ADVISING THE WORK TO TAKE PLACE,
TING THEIR AID IN LOCATING AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH UCTION,
ILTING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
MAGE TO ANY EXISTING UTILITY.

P ACCESSIBLE RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICAN DES ACT GUIDELINES. CURB RAMP GRADES SHALL NOT EXCEED 12:1.

SION CONTROL SEQUENCE

CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION FROM THIS SITE DURING ITS L ALTERATION, THIS PLAN SEEKS TO PROVIDE SOME DIRECTION IN THE MANNER IN HE OBJECTIVE TO CONTROL EROSION CAN BE ACCOMPLISHED. IT IS NOT THE INTENT NOR ENGINEERING TO LIMIT THE CONTRACTOR IN THE MANNER AND TECHNIQUES TO L EROSION. RECOMMENCED RESOURCES FOR CONTRACTORS WORK IS WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES-DEVELOPING POLLUTION TION PLANS AND BEST MANAGEMENT PRACTICES" PUBLISHED BY THE UNITED STATES MENTAL PROTECTION AGENCY.

OWING IS A LIST, IN SEQUENCE, OF CONSTRUCTION ACTIVITIES TO CONTROL SOIL FOR THE PROJECT:

NO. 2 STONE SHALL BE INSTALLED AT THE ACCESS LOCATION. THE CONTRACTOR IS NSIBLE FOR KEEPING STREETS FREE FROM MUD, DIRT, DEBRIS, AND ROCK. DUST EPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE PRAY ON ADHESIVES OR OTHER APPROVED METHODS.

L SILT FENCE, DIVERSION DITCHES, AND SILT TRAPS AS SHOWN. DO NOT DISTURB AM OR STREAM BANK.

MARY GRADING OF THE SITE SHALL BEGIN AS AREAS OF THE SITE ARE BROUGHT TO RADES. EROSION MEASURES SUCH AS DIVERSION DITCHES, SILT TRAPS, STRAW RAP CHANNEL LINING, AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH T MANAGEMENT PRACTICES".

AND GRUB THE SITE AND DISPOSE OF ALL DEBRIS PROPERLY. IF AN AREA THAT HAS URBED IS TO BE INACTIVE FOR MORE THAN 21 DAYS, THE CONTRACTOR SHALL BILIZATION BY MEANS OF TEMPORARY SEEDING AND MULCHING, BOODING, OR OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL. IN SHALL AN AREA REMAIN UNTREATED FOR MORE THAN 14 DAYS AFTER CTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. FOR TEMPORARY THE CONTRACTOR SHALL UTILIZE A RAPT GROWING SEED OF EITHER OATS, ANNUAL S OR WHEAT DEPENDING ON THE TIME OF YEAR.

ILED MATERIALS SHOULD BE PROPERLY STABILIZED WITH TEMPORARY SEEDING ION CONTROL FENCE.

H ALL FILTERS AND TRAPS DURING CONSTRUCTION TO PREVENT ANY BLOCKAGES UMULATED SEDIMENT. AFTER EVERY RAIN IN EXCESS OF HALF AN INCH, SILT DEVICES ARE TO BE INSPECTED CLEANED AND REPAIRED IF NECESSARY. SILT FT BE CLEANED IF SILT BUILDUP REACHES 1/3 OF THE SILT FENCE HEIGHT. SILT LL BE CLEANED WHEN SILT DEPOSITS REACH 1/2 OF TRAP CAPACITY. ADDITIONAL ILT FENCE, AND/OR STRAW BALES MAY BE REQUIRED DURING CONSTRUCTION.

FACE INLETS AND CURB INLETS SHALL BE PROTECTED WITH INTERNOVEN STONE

TURBED AREAS ARE AT FINAL GRADE AND ALL ACTIVITY IN THESE AREAS IS , PERMANENT VEGETATION SHALL BE PROVIDED AS DESCRIBED IN THE PLANS AND TIONS. THIS VEGETATION IS TO INCLUDE PEN/MIRING, DISABLE APPROVED BY THE L. SLOPES EXCEEDING 4:1 SHALL HAVE THE ADDITIONAL PROTECTION OF OR SODDING TO PREVENT EROSION. SEEDING OF ALL PERMANENT VEGETATION LOW GUIDELINES SET FORTH IN "BEST MANAGEMENT PRACTICES".

OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION EASURES THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND L TEMPORARY EROSION AND SEDIMENT CONTROLS ONLY WHEN THERE IS A GROWTH OF GROUND COVERAGE TO PREVENT FURTHER EROSION.

MENDMENT

OPER SHALL BE RESPONSIBLE FOR OBTAINING A GRADING PERMIT FROM THE ERNMENT PRIOR TO ANY CONSTRUCTION ACTIVITY.

OMMENCING WITH CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS INCLUDING SUBMISSION IN WRITING OF A NOTICE OF TO DISTURB WITH THE KENTUCKY DIVISION OF WATER.

EERED TO IN THE PLANS AND SPECIFICATIONS AS CONTRACTOR/OWNER UTY, IT IS THE CONTRACTOR'S OBLIGATION TO ACT ON THE OWNER'S BEHALF IN ALL REQUIREMENTS FOR COMPLIANCE WITH PERMIT AND EROSION CONTROL.

UCTION AREA SHALL BE CLEARED OF ALL WEEDS, BRUSH, BRIERS, BUSHES, PAVEMENT, BUILDING FOUNDATIONS, SLABS, TREES, STUMPS, AND OTHER OBSTRUCTIONS NOT DESIGNATED TO REMAIN, EXCEPT WITHIN AREAS THE OWNER MAY DESIGNATE TO REMAIN UNDISTURBED.

AL RESULTING FROM CLEARING AND GRUBBING SHALL BE COMPLETELY DISPOSED BY THE CONTRACTOR.

TION SHALL BE PERFORMED IN SUCH A MANNER AS WILL ENSURE AGAINST M LOOSENING MATERIAL OUTSIDE THE REQUIRED SLOPES. SLOPES SHALL BE REASONABLY CLOSE CONFORMITY WITH THE LINES SHOWN ON THE PLANS WITH HIS THEREFROM READILY DISCERNIBLE.

OF EXCAVATION BOTH TRENCH AND MASS SHALL BE UNCLASSIFIED AND SHALL EVER MATERIALS ARE ENCOUNTERED TO THE DEPTH SHOWN ON THE AS DIRECTED BY THE ENGINEER.

UNSUITABLE MATERIAL: EXCAVATED MATERIALS WHICH ARE EITHER SURPLUS MED OR ARE UNSUITABLE FOR BACKFILLING SHALL BE REMOVED FROM THE VATIONS AS SOON AS EXCAVATED

OVED FROM EXCAVATION AND EMBANKMENT AREAS SHALL BE STOCKPILED IN QUANTITIES TO ENSURE THE NEWLY CONSTRUCTED "GRASSED" AREAS AT LEAST TOPSOIL. TOPSOIL QUANTITIES IN EXCESS OF WHAT IS NEEDED TO COVER D GRASSED AREAS IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR.

L BE PLACED AND SPREAD TO A SUFFICIENT LOOSE DEPTH SO THAT AFTER TLEMENT AND ROLLING, THE COMPLETED WORK WILL CONFORM TO THE ES, GRADES, AND ELEVATIONS. AFTER SPREADING, THE TOPSOIL SHALL BE AND PREPARED FOR FINAL SEEDING.

L NOT BE PLACED WHEN WEATHER CONDITIONS OR SOIL CONDITIONS ARE SUCH AS WHEN THE GROUND OR TOPSOIL IS EXCESSIVELY WET.

FILL PLACEMENT

GROUND SURFACE PREPARATIONS: STRIP TOPSOIL FROM AREAS TO BE FILLED NOT OTHERWISE PREPARED. FILL HOLES AND MINOR DEPRESSIONS AND COMPACT EACH FILLING THOROUGHLY.

EXISTING SOILS IN AREAS TO BE FILLED SHALL BE REASONABLY DRY AND SHALL BE PRE-COMPACTED.

WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER "COMPACTION" FOR A PARTICULAR AREA CLASSIFICATION, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE-CONDITION TO OPTIMUM MOISTURE CONTENT AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY.

PLACEMENT AND COMPACTION: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.

BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIALS ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.

FILL MATERIALS SHALL BE FREE OF ALL ORGANIC MATTER, DEBRIS AND REFUSE AND SHALL BE OF UNIFORM CHARACTER. FILL MATERIAL SHALL INCLUDE NO STONES LARGER THAN 6" MAXIMUM DIMENSION. ROCK OR BROKEN MASONRY SHALL BE WELL DISTRIBUTED IN EARTH, ON OTHER THAN MATERIAL WITH INTERSTICES FILLED, AND SHALL NOT BE PLACED WITHIN TWO FEET OF FINISHED GRADE.

NO FILL MATERIAL SHALL BE PLACED, SPREAD OR ROLLED WHEN IT IS FROZEN, THAWING, OR DURING EXCESSIVELY WET WEATHER CONDITIONS.

COMPACTION

FOR PLACEMENT AND COMPACTION OF STRUCTURAL EARTH FILL AND STRUCTURAL SHOT ROCK FILL, THE CONTRACTOR MUST FOLLOW THE GUIDELINES SET FORTH BY THE GEOTECHNICAL ENGINEER.

FINAL SEED AND MULCH

IN ADDITION TO THE REQUIREMENTS FOR PROVIDING TEMPORARY SEED AND MULCH TO PREVENT EROSION, THE CONTRACTOR SHALL APPLY FINAL SEED AND MULCH TO ESTABLISH A VIABLE STAND OF TURF TYPE TALL FESCUE ON THE ENTIRE SITE. CONTRACTOR SHALL BE REQUIRED TO PROVIDE IRRIGATION AS NECESSARY TO SUSTAIN GRASS IN PERIODS OF DROUGHT FOR ONE YEAR FOLLOWING SUBSTANTIAL COMPLETION OF THE PROJECT.

TESTING SERVICES

THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ALL EXPENSE AND COORDINATION FOR TESTING SERVICES. THE CONTRACTOR SHALL ALSO SUBMIT THE NAME OF THE QUALIFIED GEOTECHNICAL ENGINEER TO THE OWNER FOR APPROVAL.

THE CONTRACTOR SHALL ALLOW TESTING SERVICE TO INSPECT AND REPORT TO THE ENGINEER ON FINDINGS AND APPROVE SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED.

FIELD DENSITY TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 (SAND CONE METHOD), ASTM D 2167 (RUBBER BALLOON METHOD), OR ASTM D 2992 (NUCLEAR DENSITY METHOD), AS APPLICABLE.

TESTING REQUIREMENTS ARE AS FOLLOWS:

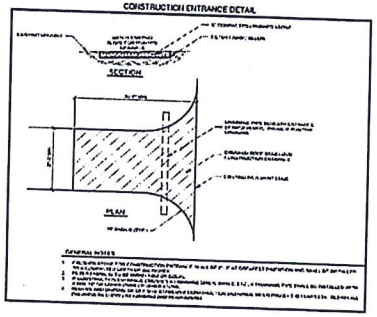
FOOTING SUBGRADE: FOR EACH STRATA OF SOIL ON WHICH FOOTINGS WILL BE PLACED, CONDUCT AT LEAST ONE TEST TO VERIFY REQUIRED DESIGN BEARING CAPACITIES. SUBSEQUENT VERIFICATION AND APPROVAL OF EACH FOOTING SUBGRADE MAY BE BASED ON THE ENGINEER.

PAVED AREAS AND BUILDING SLAB SUBGRADE: MAKE AT LEAST ONE FIELD DENSITY TEST OF SUBGRADE FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE LESS THAN THREE TESTS. IN EACH COMPACTED FILL LAYER, MAKE ONE FIELD DENSITY TEST FOR EVERY 2000 SQUARE FEET OF OVERLAYING BUILDING SLAB OR PAVED AREA, BUT IN NO CASE LESS THAN THREE TESTS.

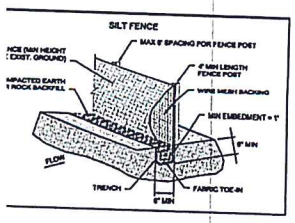
FOUNDATION WALL BACKFILL: TAKE AT LEAST TWO FIELD DENSITY TESTS AT LOCATIONS AND ELEVATIONS AS DIRECTED.

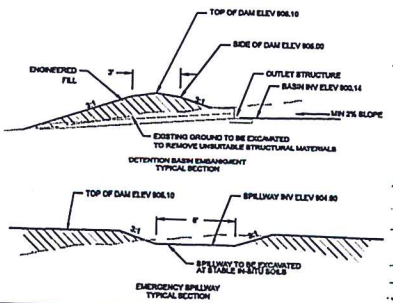
IF IN THE OPINION OF THE ENGINEER, BASED ON TESTING SERVICE REPORTS AND INSPECTION, SUBGRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION AND TESTING AT NO ADDITIONAL EXPENSE.

CONSTRUCTION ENTRANCE DETAIL



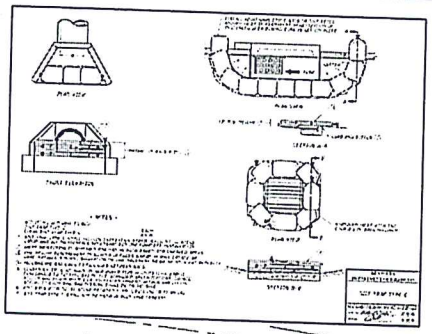
SILT FENCE

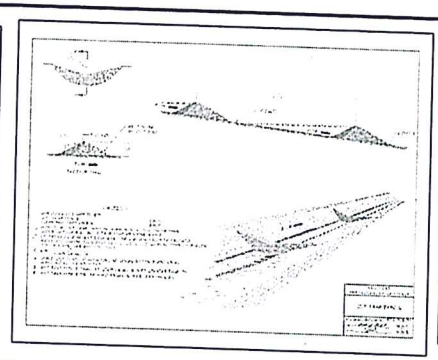


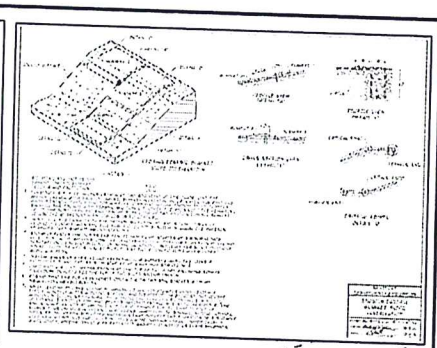


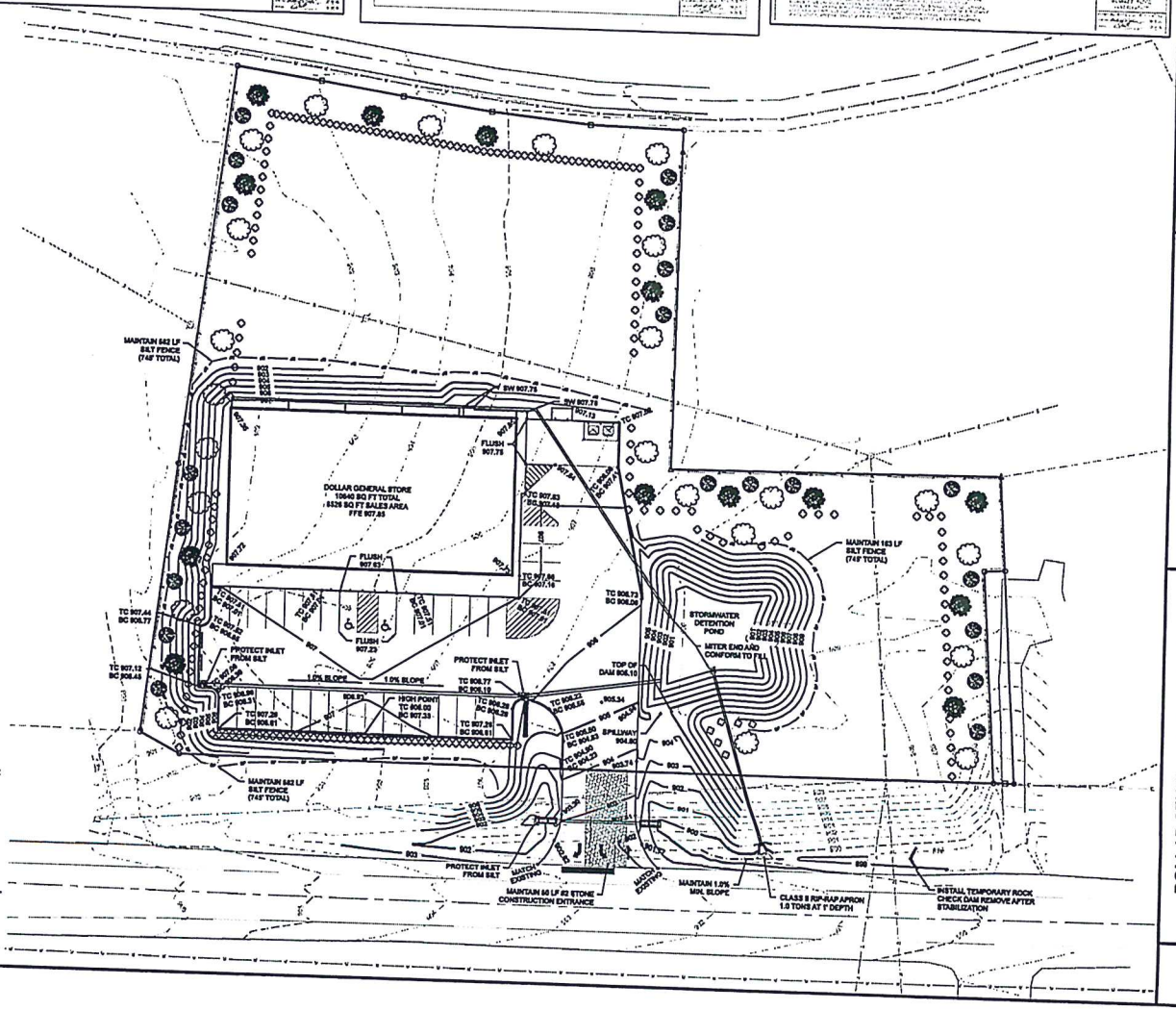
DETENTION BASIN EMBANKMENT
TYPICAL SECTION

EMERGENCY SPILLWAY
TYPICAL SECTION









VANTAGE Engineering PLC
2038 Dandie Road, Hendersonville, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com

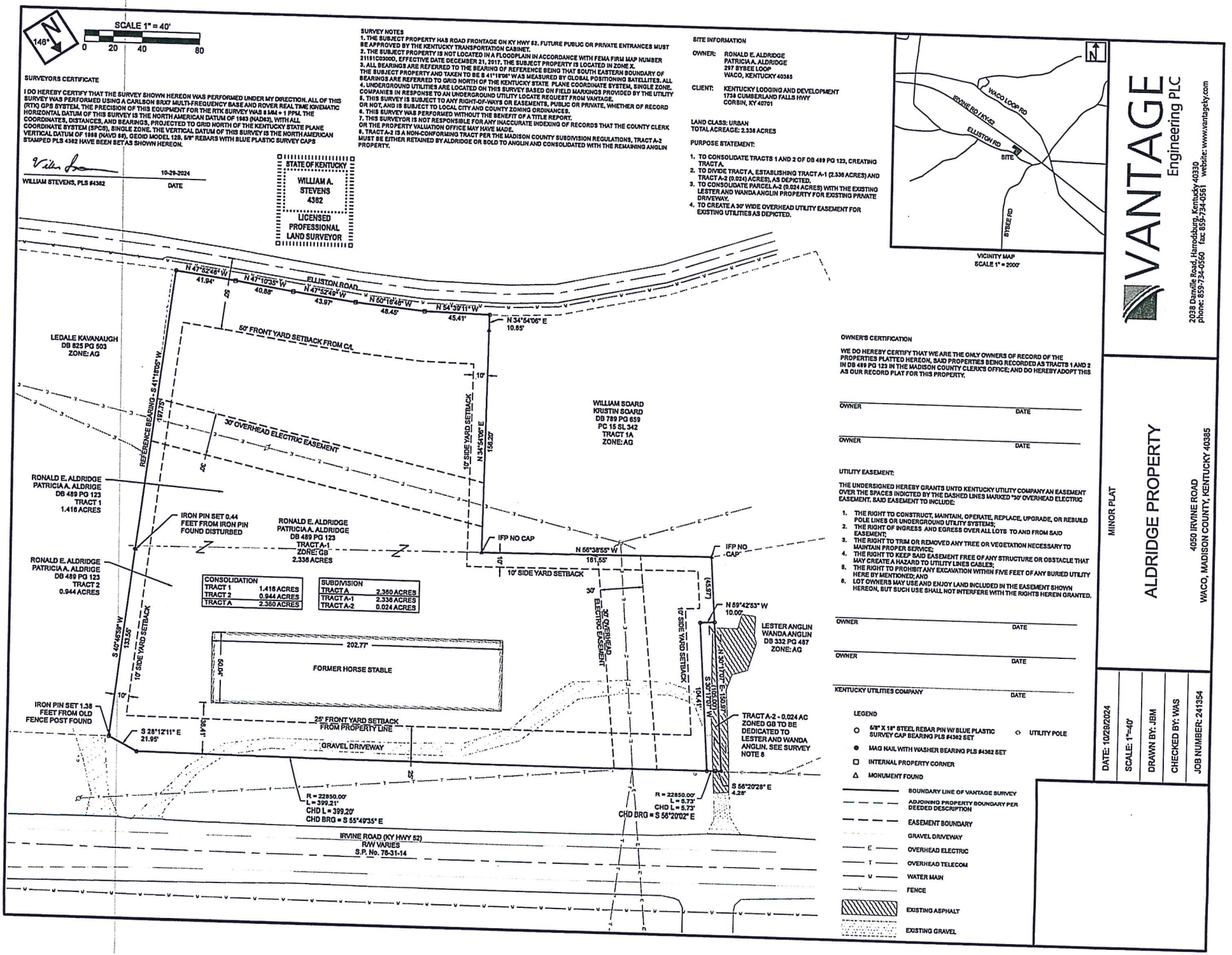
DOLLAR GENERAL RETAIL STORE
4050 IRVINE ROAD
WACO, KENTUCKY 40385
GRADING AND EROSION CONTROL PLAN

REVISIONS	
1.	
2.	
3.	

DATE: 10/29/24
SCALE: 1" = 30'
DRAWN BY: JBM
CHECKED BY: WAS

10-29-2024

SHEET
C3


SCALE 1" = 40'
0 20 40 80
148°
SURVEYORS CERTIFICATE
I DO HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON WAS PERFORMED UNDER MY DIRECTION. ALL OF THIS SURVEY WAS PERFORMED USING A CARLSON BRX7 MULTI-FREQUENCY BASE AND ROVER REAL TIME KINEMATIC (RTK) GPS SYSTEM. THE PRECISION OF THIS EQUIPMENT FOR THE RTK SURVEY WAS ± MM + 1 PPM. THE HORIZONTAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983 (NAD83), WITH ALL COORDINATES, DISTANCES, AND BEARINGS, PROJECTED TO GRID NORTH OF THE KENTUCKY STATE PLANE COORDINATE SYSTEM (SPCS), SINGLE ZONE. THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID MODEL 12B. 5/8" REBARS WITH BLUE PLASTIC SURVEY CAPS STAMPED PLS 4362 HAVE BEEN SET AS SHOWN HEREON.
WILLIAM STEVENS, PLS #4362
10-29-2024
DATE
STATE OF KENTUCKY
WILLIAM A. STEVENS 4362
LICENSED PROFESSIONAL LAND SURVEYOR
SURVEY NOTES
1. THE SUBJECT PROPERTY HAS ROAD FRONTAGE ON KY HWY 52. FUTURE PUBLIC OR PRIVATE ENTRANCES MUST BE APPROVED BY THE KENTUCKY TRANSPORTATION CABINET.
2. THE SUBJECT PROPERTY IS NOT LOCATED IN A FLOODPLAIN IN ACCORDANCE WITH FEMA FIRM MAP NUMBER 21151C0300D, EFFECTIVE DATE DECEMBER 21, 2017. THE SUBJECT PROPERTY IS LOCATED IN ZONE X.
3. ALL BEARINGS ARE REFERRED TO THE BEARING OF REFERENCE BEING THAT SOUTH EASTERN BOUNDARY OF THE SUBJECT PROPERTY AND TAKEN TO BE S 41°18'05" W AS MEASURED BY GLOBAL POSITIONING SATELLITES. ALL BEARINGS ARE REFERRED TO GRID NORTH OF THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE.
4. UNDERGROUND UTILITIES ARE LOCATED ON THIS SURVEY BASED ON FIELD MARKINGS PROVIDED BY THE UTILITY COMPANIES IN RESPONSE TO AN UNDERGROUND UTILITY LOCATE REQUEST FROM VANTAGE.
5. THIS SURVEY IS SUBJECT TO ANY RIGHT-OF-WAYS OR EASEMENTS, PUBLIC OR PRIVATE, WHETHER OF RECORD OR NOT, AND IS SUBJECT TO LOCAL CITY AND COUNTY ZONING ORDINANCES.
6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT.
7. THIS SURVEYOR IS NOT RESPONSIBLE FOR ANY INACCURATE INDEXING OF RECORDS THAT THE COUNTY CLERK OR THE PROPERTY VALUATION OFFICE MAY HAVE MADE.
8. TRACT A-2 IS A NON-CONFORMING TRACT PER THE MADISON COUNTY SUBDIVISION REGULATIONS, TRACT A-2 MUST BE EITHER RETAINED BY ALDRIDGE OR SOLD TO ANGLIN AND CONSOLIDATED WITH THE REMAINING ANGLIN PROPERTY.
SITE INFORMATION
OWNER: RONALD E. ALDRIDGE
PATRICIA A. ALDRIDGE
297 BYBEE LOOP
WACO, KENTUCKY 40385
CLIENT: KENTUCKY LODGING AND DEVELOPMENT
1738 CUMBERLAND FALLS HWY
CORBIN, KY 40701
LAND CLASS: URBAN
TOTAL ACREAGE: 2.338 ACRES
PURPOSE STATEMENT:
1. TO CONSOLIDATE TRACTS 1 AND 2 OF DB 489 PG 123, CREATING TRACT A.
2. TO DIVIDE TRACT A, ESTABLISHING TRACT A-1 (2.336 ACRES) AND TRACT A-2 (0.024) ACRES), AS DEPICTED.
3. TO CONSOLIDATE PARCEL A-2 (0.024 ACRES) WITH THE EXISTING LESTER AND WANDA ANGLIN PROPERTY FOR EXISTING PRIVATE DRIVEWAY.
4. TO CREATE A 30' WIDE OVERHEAD UTILITY EASEMENT FOR EXISTING UTILITIES AS DEPICTED.
VICINITY MAP
SCALE 1" = 2000'
WACO LOOP RD
IRVINE RD (KY 52)
ELLISTON RD
SITE
BYBEE RD
N 47°52'48" W 41.94'
N 47°10'35" W 40.88'
N 47°52'49" W 43.97'
N 60°16'46" W 48.45'
N 54°39'11" W 45.41'
N 34°54'06" E 10.85'
ELLISTON ROAD
50' FRONT YARD SETBACK FROM C/L
LEDALE KAVANAUGH
DB 825 PG 503
ZONE: AG
REFERENCE BEARING - S 41°18'05" W 197.75'
30' OVERHEAD ELECTRIC EASEMENT
10' SIDE YARD SETBACK
N 34°54'06" E 156.29'
WILLIAM SOARD
KRISTIN SOARD
DB 789 PG 659
PC 15 SL 342
TRACT 1A
ZONE: AG
RONALD E. ALDRIDGE
PATRICIA A. ALDRIDGE
DB 489 PG 123
TRACT 1
1.416 ACRES
IRON PIN SET 0.44 FEET FROM IRON PIN FOUND DISTURBED
RONALD E. ALDRIDGE
PATRICIA A. ALDRIDGE
DB 489 PG 123
TRACT A-1
ZONE: GB
2.336 ACRES
IFP NO CAP
N 56°38'55" W 161.55'
IFP NO CAP
RONALD E. ALDRIDGE
PATRICIA A. ALDRIDGE
DB 489 PG 123
TRACT 2
0.944 ACRES
CONSOLIDATION
TRACT 1 1.416 ACRES
TRACT 2 0.944 ACRES
TRACT A 2.360 ACRES
SUBDIVISION
TRACT A 2.360 ACRES
TRACT A-1 2.336 ACRES
TRACT A-2 0.024 ACRES
10' SIDE YARD SETBACK
30' OVERHEAD ELECTRIC EASEMENT
N 59°42'53" W 10.00'
LESTER ANGLIN
WANDA ANGLIN
DB 332 PG 487
ZONE: AG
S 40°45'59" W 133.55'
10' SIDE YARD SETBACK
202.77'
FORMER HORSE STABLE
50.00'
IRON PIN SET 1.38 FEET FROM OLD FENCE POST FOUND
S 28°12'11" E 21.95'
25' FRONT YARD SETBACK FROM PROPERTY LINE
GRAVEL DRIVEWAY
N 30°11'07" E 104.41'
S 30°11'07" W 104.41'
TRACT A-2 - 0.024 AC ZONED GB TO BE DEDICATED TO LESTER AND WANDA ANGLIN. SEE SURVEY NOTE 8
S 56°20'28" E 4.28'
R = 22850.00'
L = 399.21'
CHD L = 399.20'
CHD BRG = S 55°49'35" E
R = 22850.00'
L = 5.73'
CHD L = 5.73'
CHD BRG = S 56°20'02" E
IRVINE ROAD (KY HWY 52)
R/W VARIES
S.P. No. 76-31-14
OWNER'S CERTIFICATION
WE DO HEREBY CERTIFY THAT WE ARE THE ONLY OWNERS OF RECORD OF THE PROPERTIES PLATTED HEREON, SAID PROPERTIES BEING RECORDED AS TRACTS 1 AND 2 IN DB 489 PG 123 IN THE MADISON COUNTY CLERK'S OFFICE; AND DO HEREBY ADOPT THIS AS OUR RECORD PLAT FOR THIS PROPERTY.
OWNER DATE
OWNER DATE
UTILITY EASEMENT:
THE UNDERSIGNED HEREBY GRANTS UNTO KENTUCKY UTILITY COMPANY AN EASEMENT OVER THE SPACES INDICTED BY THE DASHED LINES MARKED "30' OVERHEAD ELECTRIC EASEMENT. SAID EASEMENT TO INCLUDE:
1. THE RIGHT TO CONSTRUCT, MAINTAIN, OPERATE, REPLACE, UPGRADE, OR REBUILD POLE LINES OR UNDERGROUND UTILITY SYSTEMS;
2. THE RIGHT OF INGRESS AND EGRESS OVER ALL LOTS TO AND FROM SAID EASEMENT;
3. THE RIGHT TO TRIM OR REMOVED ANY TREE OR VEGETATION NECESSARY TO MAINTAIN PROPER SERVICE;
4. THE RIGHT TO KEEP SAID EASEMENT FREE OF ANY STRUCTURE OR OBSTACLE THAT MAY CREATE A HAZARD TO UTILITY LINES CABLES;
5. THE RIGHT TO PROHIBIT ANY EXCAVATION WITHIN FIVE FEET OF ANY BURIED UTILITY HERE BY MENTIONED; AND
6. LOT OWNERS MAY USE AND ENJOY LAND INCLUDED IN THE EASEMENT SHOWN HEREON, BUT SUCH USE SHALL NOT INTERFERE WITH THE RIGHTS HEREIN GRANTED.
OWNER DATE
OWNER DATE
KENTUCKY UTILITIES COMPANY DATE
LEGEND
5/8" X 18" STEEL REBAR PIN W/ BLUE PLASTIC SURVEY CAP BEARING PLS #4362 SET
UTILITY POLE
MAG NAIL WITH WASHER BEARING PLS #4362 SET
INTERNAL PROPERTY CORNER
MONUMENT FOUND
BOUNDARY LINE OF VANTAGE SURVEY
ADJOINING PROPERTY BOUNDARY PER DEEDED DESCRIPTION
EASEMENT BOUNDARY
GRAVEL DRIVEWAY
OVERHEAD ELECTRIC
OVERHEAD TELECOM
WATER MAIN
FENCE
EXISTING ASPHALT
EXISTING GRAVEL
VANTAGE
Engineering PLC
2038 Danville Road, Harrodsburg, Kentucky 40330
phone: 859-734-0560 fax: 859-734-0561 website: www.vantageky.com
ALDRIDGE PROPERTY
MINOR PLAT
4050 IRVINE ROAD
WACO, MADISON COUNTY, KENTUCKY 40385
DATE: 10/29/2024
SCALE: 1"=40'
DRAWN BY: JBM
CHECKED BY: WAS
JOB NUMBER: 241354