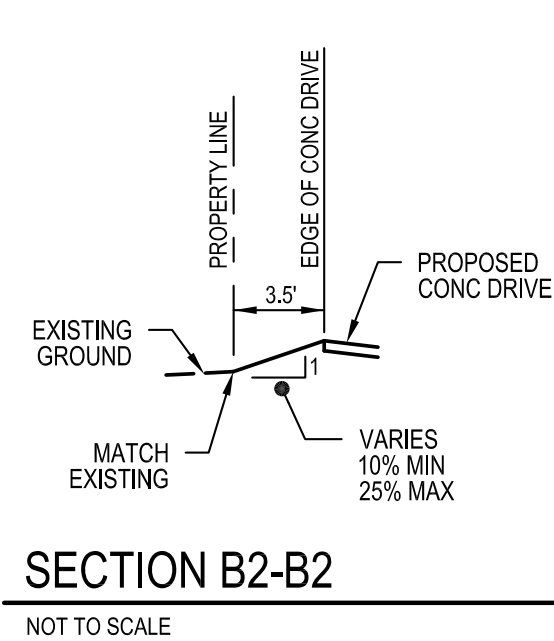
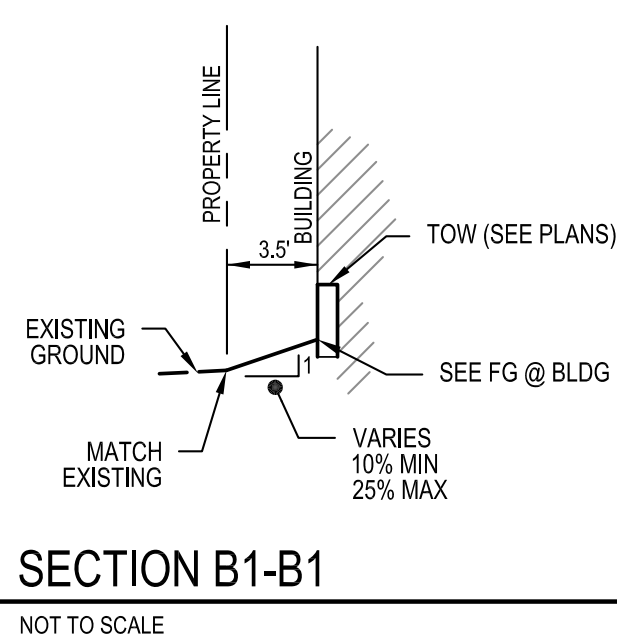
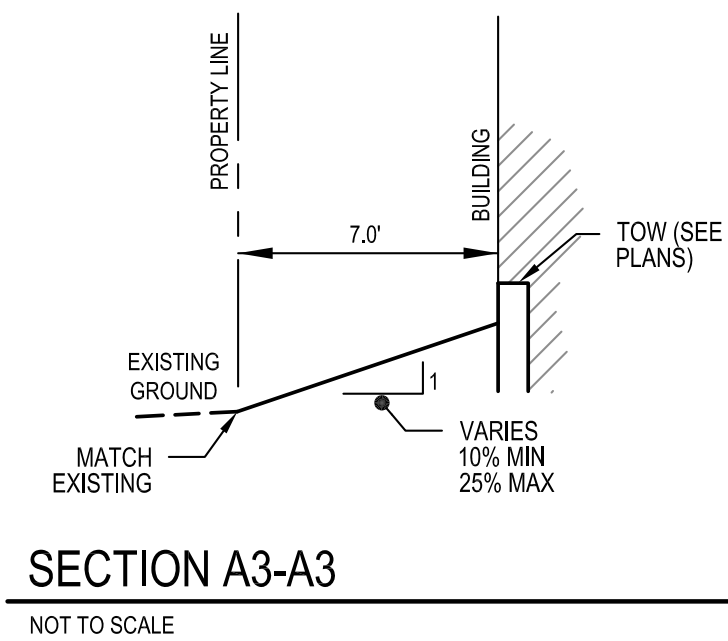
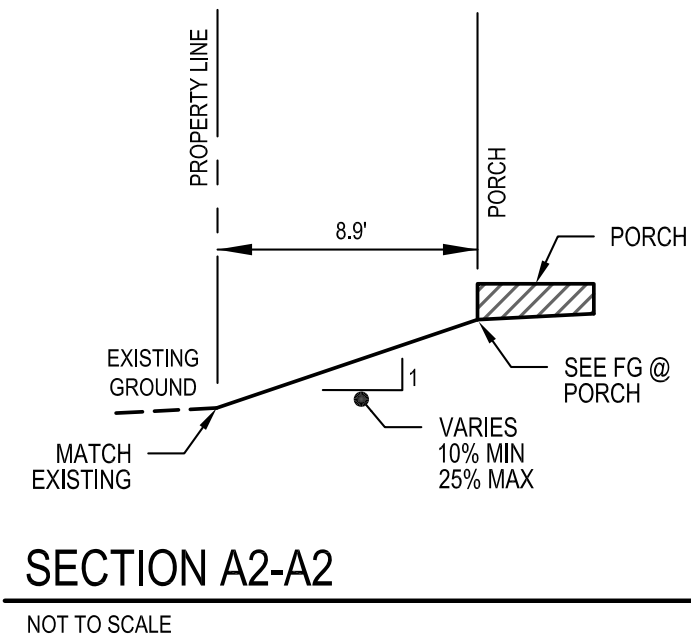
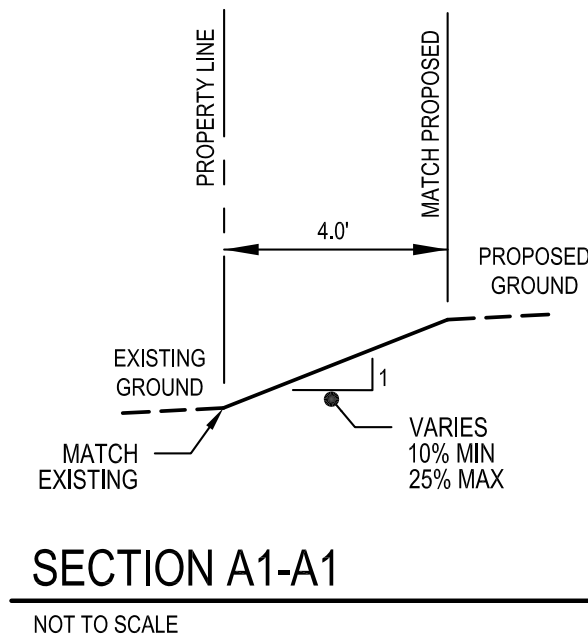
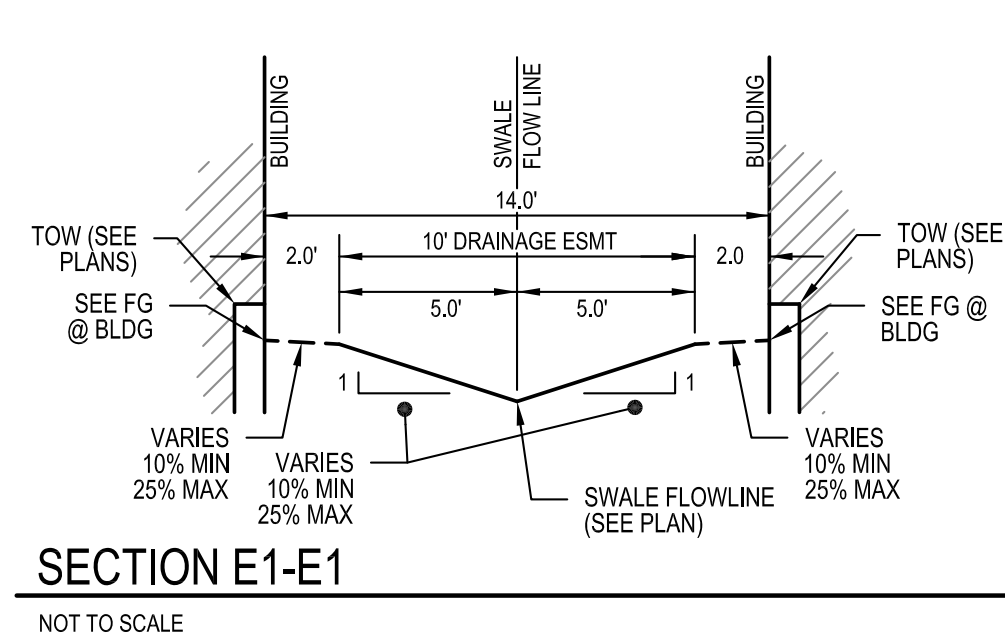
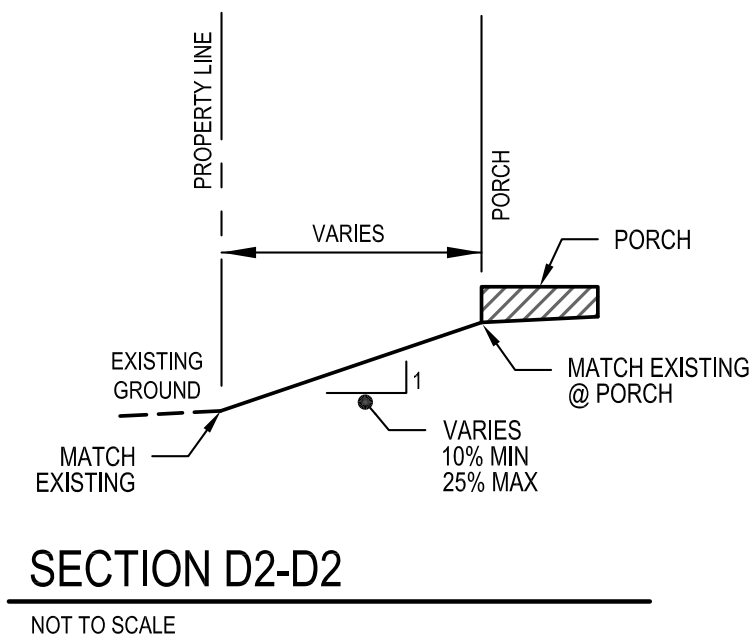
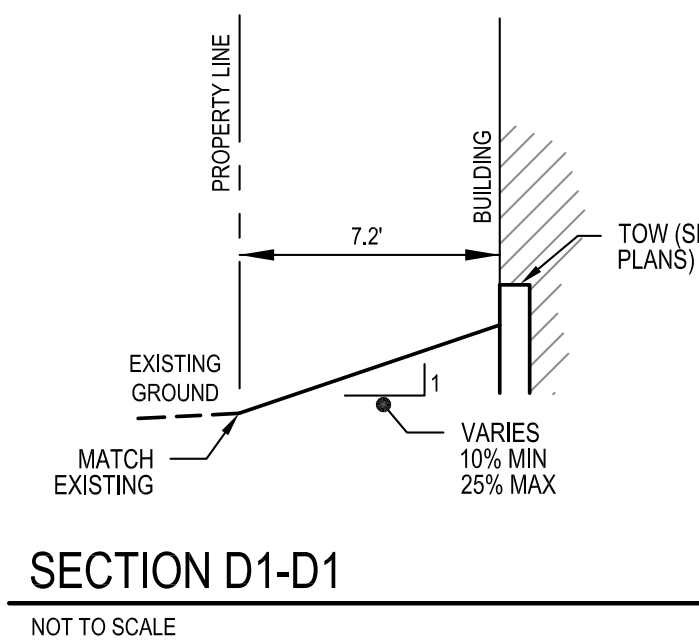
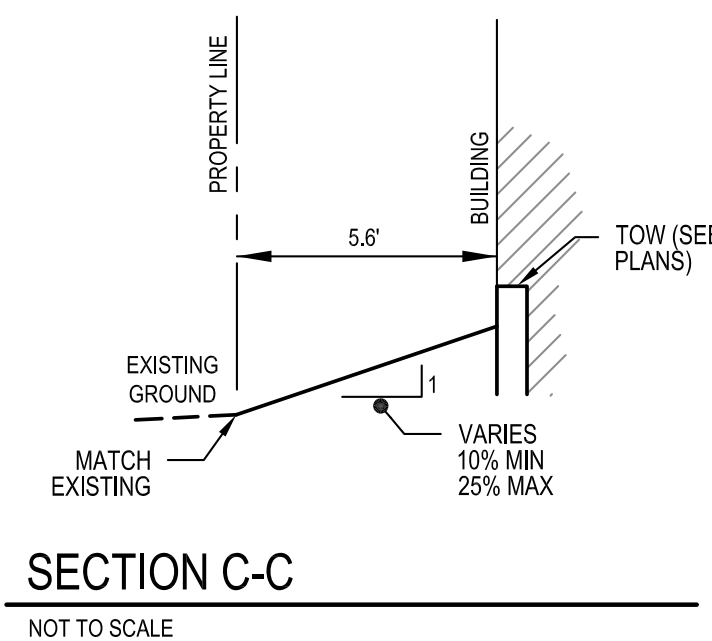


PLATTED TUE 05/14/24 02:50PM
BY MICHAEL BEST
MODIFIED 5/14/24 4:25 824 LEE STREET MINOR SUBDIVISION - ENG C3D GRADING REV 2.DWG

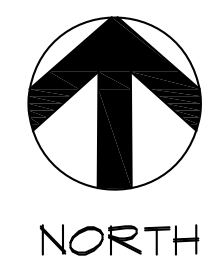


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1 GRADING PLAN

C1.0 SCALE: 1" = 10'-0"



Notes

1. BUILDING FOOTPRINTS ARE HYPOTHETICAL AS PROVIDED BY THE ARCHITECT. ACTUAL BUILDING FOOTPRINTS MAY VARY FROM THIS DEPICTION. ANY REQUIRED MODIFICATIONS TO THE DRAINAGE MAP AND CIVIL DRAWINGS WILL BE PROVIDED AT TIME OF BUILDING PERMIT APPLICATION.

Provided Information Note

THE EXISTING, ON-SITE CONDITIONS AND TOPOGRAPHY USED FOR THE DESIGN BY CIVILARTS, WERE SUPPLIED BY OTHERS. CIVILARTS CANNOT CERTIFY TO, AND IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS INFORMATION PROVIDED BY OTHERS. CIVILARTS IS NOT RESPONSIBLE FOR ANY DESIGN ERRORS DUE TO ERRORS OR INACCURACIES IN INFORMATION PROVIDED BY OTHERS.

Legend

PROPERTY BOUNDARY	
SECTION LINE	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
SWALE CENTERLINE	
SWALE LIMITS	
PERCENT SLOPE	
FLOW DIRECTION	
EXISTING SPOT ELEVATION	
PROPOSED CONCRETE	
EXISTING ASPHALT PAVING	

Abbreviations

EX	EXISTING	WP	WOOD POST	HP	HIGH POINT
EG	EXISTING GRADE	CLP	CLOTHES LINE POLE	BLDG	BUILDING
TC	TOP OF CONCRETE	FLE	FINISHED FLOOR ELEVATION	ESMT	EASEMENT
FG	FINISHED GRADE	PP	POWER POLE	TCS	POT OF CONCRETE SLAB
SW	SWALE	CO	CLEANOUT		
CL	CENTERLINE	WV	WATER VALVE		
BM	TOP OF BERM	RCP	REINFORCED CONCRETE PIPE		
INT	INTERSECTION	SMH	SANITARY MANHOLE		
EB	ELECTRICAL BOX	INV	INVERT		
SP	STEEL POST	DIP	DUCTILE IRON PIPE		
EM	ELECTRICAL METER	VCP	VITRIFIED CLAY PIPE		
IVB	IRRIGATION VALVE BOX	BTM	BOTTOM		
IWS	IRRIGATION WATER SPIGOT	TYP	TYPICAL		
MB	MAIL BOX	LP	LOW POINT		

NO. DESCRIPTION

DATE BY

1 SITE PLAN SUBMITTAL

5/13/24 MB

2 PER CLIENT COMMENTS

5/14/24 MB

824 LEE AVE. IMPROVMENTS

824 LEE AVENUE

LOUISVILLE, COLORADO 80027

GRADING PLAN

DATE: 2/23/2024

DRAWN BY: MB

CHECKED BY: PEH

JOB NO: E-435

SHEET NO:

C1.0

1 OF 4

NO. DESCRIPTION

DATE BY

1 SITE PLAN SUBMITTAL

5/13/24 MB

2 PER CLIENT COMMENTS

5/14/24 MB

824 LEE AVE. IMPROVMENTS

824 LEE AVENUE

LOUISVILLE, COLORADO 80027

GRADING PLAN

DATE: 2/23/2024

DRAWN BY: MB

CHECKED BY: PEH

JOB NO: E-435

SHEET NO:

C1.0

1 OF 4



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Longmont, CO 80501

May 13, 2024

Mr. Eric Ellis
Hartronft Associates PC
950 Spruce Street.
STE #2A
Louisville, CO 80027

Re: Drainage Letter
824 Lee Street
Louisville, Colorado 80027
Legal Description: Lots 1-3, Block 3, Louisville East City of Louisville, County of Boulder,
State of Colorado.

This preliminary drainage letter is submitted in conjunction with the site plan review and topo survey prepared for the above referenced project and parcel of land.

The existing parcel consists of a single-family residential home and detached garage on 0.28 acres of subdivided land. The legal description is: Lots 1-3, Block 3, Louisville East.
An Alta survey was prepared by Ehrhart Land Surveying dated May 19, 2023, which we used in preparing this drainage letter.

The existing drainage conditions are as follows:

The existing site has a single-family home and detached garage lying on 0.28 acres of land. The existing impervious area is approximately 15%. The existing runoff and topography was reviewed and 5-10% is directed west to Lee Avenue via sheet flow. 15-20% is directed north to Miners Field via sheet flow. 60-70% is directed south to the Alley via sheet flow.

The existing soils are 100% (AcA) – Acalon sandy loam 0 – 3% slopes.

The Hydrologic Soil Group is classified as “B” and is considered well drained. The runoff class is considered low and the capacity to percolate and transmit water high, (0.6 – 2.0 in/hr.).

We have attached herewith the Custom Soils Resource Report obtained from the Natural Resources Conservation Service.

The proposed site development drainage plan calls for a RESI Minor Subdivision with 3 residential homes and garages. The impervious area planned is approximately 50%.

The proposed drainage plan will be to capture water in grass buffers and swales for water quality treatment. Because the site and disturbed area is less than 1 acre, (0.28 acres total) we have discussed previously with the City of Louisville engineering department about obtaining a detention waiver due to the negligible impact of such a small lot. In summary, we intend to provide 100% water quality treatment within the grass buffers and swales.



824 Lee Street Louisville Colorado 80027

If you should have any questions or comments regarding either the information or conclusions presented herein, feel free to contact me at your convenience.

CivilArts

Patrick High

Patrick E. High, P.E.
Senior Project Manager





NOAA Atlas 14, Volume 8, Version 2
Location name: Louisville, Colorado, USA*
Latitude: 39.9783°, Longitude: -105.1292°
Elevation: 5325 ft**

* source: ESRI Maps

** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffrey Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.215 (0.170-0.272)	0.265 (0.209-0.336)	0.359 (0.282-0.456)	0.449 (0.351-0.573)	0.590 (0.453-0.801)	0.714 (0.531-0.974)	0.849 (0.608-1.18)	1.00 (0.684-1.43)	1.22 (0.798-1.78)	1.40 (0.884-2.05)
10-min	0.315 (0.249-0.399)	0.388 (0.306-0.492)	0.525 (0.413-0.668)	0.657 (0.514-0.839)	0.864 (0.664-1.17)	1.04 (0.777-1.43)	1.24 (0.890-1.74)	1.46 (1.00-2.09)	1.78 (1.17-2.61)	2.05 (1.30-3.00)
15-min	0.384 (0.304-0.487)	0.473 (0.374-0.599)	0.640 (0.504-0.814)	0.801 (0.627-1.02)	1.05 (0.810-1.43)	1.28 (0.948-1.74)	1.52 (1.09-2.12)	1.78 (1.22-2.55)	2.17 (1.42-3.18)	2.50 (1.58-3.66)
30-min	0.531 (0.420-0.673)	0.651 (0.514-0.826)	0.879 (0.692-1.12)	1.10 (0.859-1.40)	1.44 (1.11-1.96)	1.74 (1.30-2.38)	2.08 (1.48-2.90)	2.44 (1.67-3.49)	2.97 (1.95-4.36)	3.41 (2.16-5.01)
60-min	0.653 (0.516-0.827)	0.803 (0.634-1.02)	1.08 (0.854-1.38)	1.35 (1.06-1.73)	1.78 (1.36-2.41)	2.14 (1.59-2.92)	2.54 (1.82-3.54)	2.99 (2.04-4.27)	3.63 (2.38-5.31)	4.16 (2.63-6.10)
2-hr	0.775 (0.619-0.970)	0.954 (0.762-1.20)	1.29 (1.03-1.62)	1.61 (1.27-2.03)	2.11 (1.63-2.82)	2.54 (1.91-3.42)	3.01 (2.18-4.14)	3.53 (2.44-4.98)	4.28 (2.84-6.19)	4.90 (3.14-7.10)
3-hr	0.845 (0.679-1.05)	1.04 (0.836-1.30)	1.40 (1.12-1.75)	1.75 (1.39-2.19)	2.28 (1.77-3.02)	2.74 (2.06-3.66)	3.24 (2.35-4.42)	3.78 (2.63-5.30)	4.58 (3.05-6.56)	5.22 (3.36-7.52)
6-hr	1.02 (0.832-1.26)	1.25 (1.01-1.54)	1.66 (1.34-2.05)	2.05 (1.64-2.53)	2.64 (2.08-3.45)	3.15 (2.40-4.15)	3.70 (2.72-4.99)	4.31 (3.02-5.95)	5.18 (3.49-7.33)	5.89 (3.84-8.37)
12-hr	1.30 (1.06-1.57)	1.56 (1.28-1.89)	2.03 (1.66-2.48)	2.47 (2.01-3.03)	3.15 (2.50-4.06)	3.72 (2.87-4.84)	4.34 (3.22-5.77)	5.02 (3.56-6.84)	5.99 (4.08-8.36)	6.78 (4.47-9.52)
24-hr	1.56 (1.30-1.88)	1.91 (1.58-2.29)	2.51 (2.07-3.02)	3.04 (2.49-3.68)	3.83 (3.05-4.84)	4.48 (3.47-5.71)	5.16 (3.86-6.74)	5.89 (4.22-7.89)	6.92 (4.75-9.50)	7.74 (5.16-10.7)
2-day	1.78 (1.49-2.10)	2.23 (1.87-2.65)	3.00 (2.50-3.56)	3.64 (3.02-4.35)	4.55 (3.64-5.62)	5.26 (4.10-6.58)	5.99 (4.51-7.67)	6.74 (4.86-8.85)	7.75 (5.36-10.5)	8.53 (5.75-11.7)
3-day	1.94 (1.63-2.28)	2.40 (2.02-2.83)	3.18 (2.67-3.75)	3.84 (3.20-4.54)	4.76 (3.83-5.84)	5.49 (4.31-6.82)	6.23 (4.72-7.92)	7.00 (5.08-9.13)	8.04 (5.60-10.8)	8.84 (6.00-12.0)
4-day	2.08 (1.76-2.43)	2.53 (2.14-2.96)	3.28 (2.76-3.85)	3.92 (3.29-4.63)	4.84 (3.92-5.92)	5.57 (4.40-6.89)	6.33 (4.82-8.01)	7.11 (5.19-9.23)	8.18 (5.74-10.9)	9.01 (6.15-12.2)
7-day	2.43 (2.07-2.81)	2.83 (2.42-3.28)	3.53 (3.00-4.10)	4.14 (3.50-4.83)	5.03 (4.13-6.10)	5.76 (4.60-7.06)	6.52 (5.03-8.19)	7.33 (5.41-9.44)	8.45 (5.99-11.2)	9.33 (6.43-12.5)
10-day	2.72 (2.34-3.13)	3.12 (2.68-3.60)	3.81 (3.26-4.40)	4.42 (3.76-5.12)	5.31 (4.38-6.39)	6.03 (4.85-7.35)	6.79 (5.27-8.47)	7.60 (5.65-9.72)	8.73 (6.23-11.5)	9.62 (6.67-12.8)
20-day	3.54 (3.08-4.03)	4.03 (3.50-4.58)	4.84 (4.18-5.51)	5.52 (4.74-6.32)	6.48 (5.38-7.65)	7.24 (5.87-8.65)	8.01 (6.27-9.80)	8.80 (6.60-11.1)	9.88 (7.12-12.7)	10.7 (7.51-14.0)
30-day	4.20 (3.67-4.73)	4.79 (4.18-5.41)	5.75 (5.00-6.51)	6.54 (5.66-7.43)	7.62 (6.35-8.88)	8.44 (6.87-9.97)	9.24 (7.27-11.2)	10.1 (7.58-12.5)	11.1 (8.05-14.2)	11.9 (8.41-15.5)
45-day	5.00 (4.40-5.60)	5.74 (5.05-6.43)	6.92 (6.06-7.76)	7.86 (6.85-8.86)	9.12 (7.63-10.5)	10.0 (8.23-11.8)	10.9 (8.66-13.1)	11.8 (8.96-14.5)	12.9 (9.42-16.3)	13.7 (9.77-17.7)
60-day	5.67 (5.01-6.31)	6.54 (5.77-7.28)	7.90 (6.95-8.82)	8.99 (7.86-10.1)	10.4 (8.76-11.9)	11.5 (9.43-13.3)	12.5 (9.91-14.8)	13.4 (10.2-16.4)	14.6 (10.7-18.4)	15.5 (11.1-19.9)

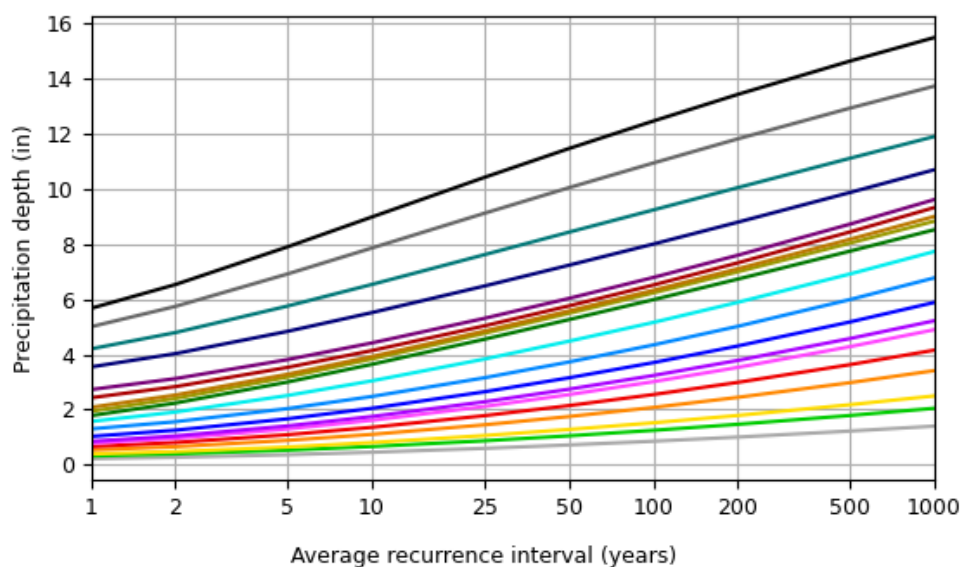
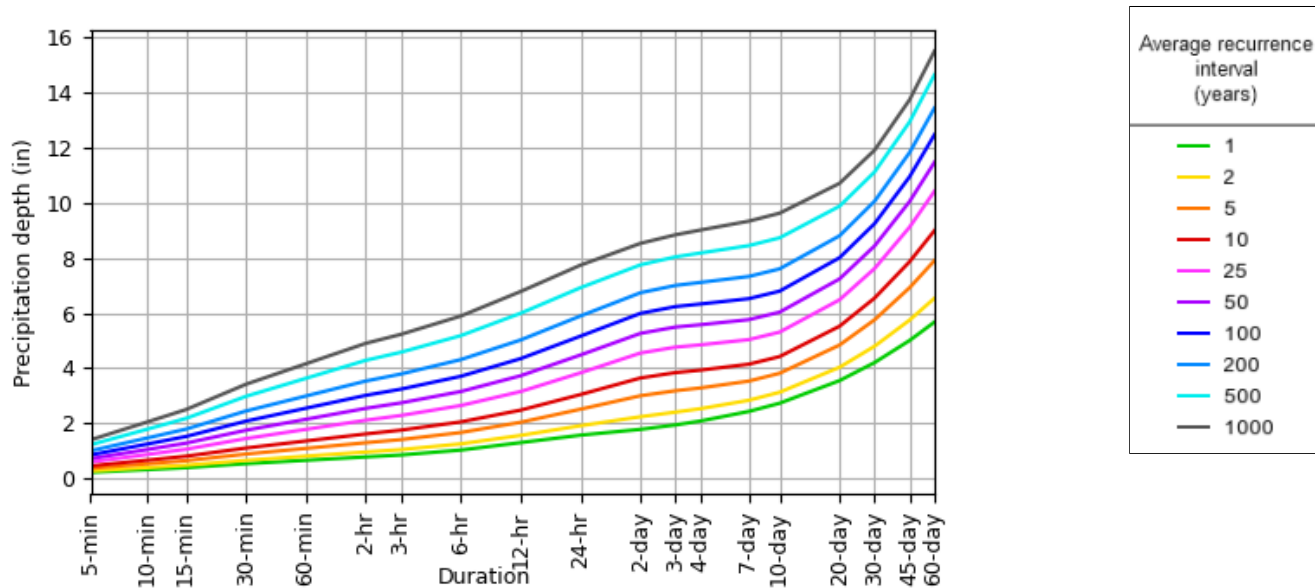
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves

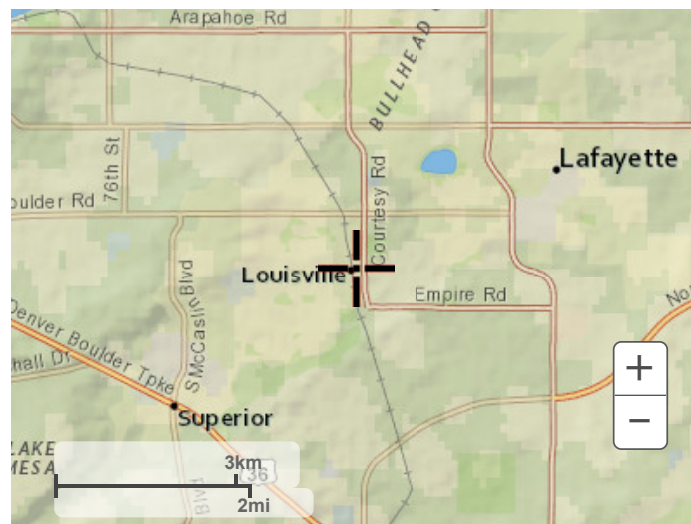
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NOAA Atlas 14, Volume 8, Version 2

Created (GMT): Fri Feb 23 21:48:47 2024

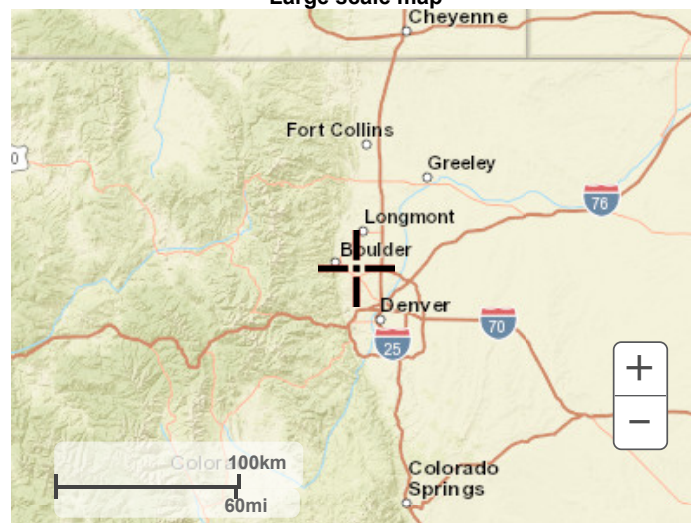
[Back to Top](#)**Maps & aerals****Small scale terrain**



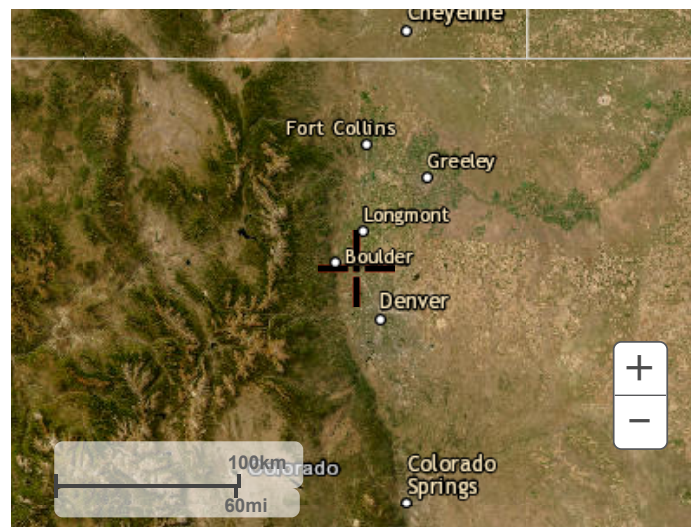
Large scale terrain



Large scale map



Large scale aerial



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Area-Weighted Runoff Coefficient Calculations

Version 2.00 released May 2017

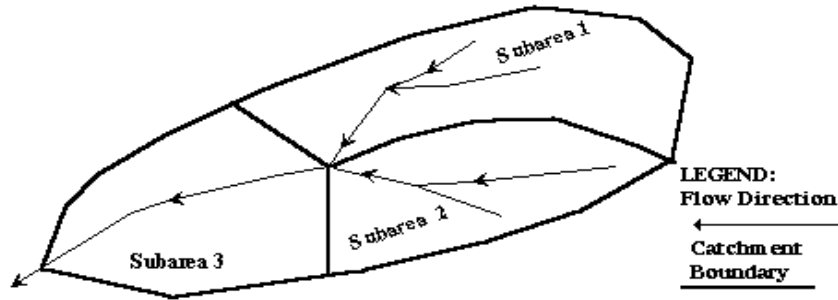
Designer: Parick E. High

Company: CivilArts

Date: 2/26/2024

Project: 824 Lee Street; (Minor Subdivision)

Location: Louisville, Colorado



Subcatchment
Name

Cells of this color are for required user-input

Cells of this color are for optional override values

Cells of this color are for calculated results based on overrides

See sheet "Design Info" for imperviousness-based runoff coefficient values.

Sub-Area ID	Area (ac)	NRCS Hydrologic Soil Group	Percent Imperviousness	Runoff Coefficient, C						
				2-yr	5-yr	10-yr	25-yr	50-yr	100-yr	500-yr
EX-1	0.04	B	62.0	0.48	0.51	0.56	0.64	0.67	0.71	0.76
EX-2	0.06	B	2.0	0.01	0.01	0.07	0.26	0.34	0.44	0.54
EX-3	0.17	B	12.0	0.07	0.09	0.15	0.32	0.39	0.48	0.58
DA-1	0.04	B	53.0	0.40	0.43	0.48	0.58	0.62	0.67	0.73
DA-2	0.06	B	14.0	0.08	0.10	0.17	0.34	0.41	0.49	0.59
DA-3	0.17	B	51.0	0.38	0.41	0.47	0.57	0.61	0.66	0.72
Total Area (ac)	0.54	Area-Weighted C		0.22	0.24	0.30	0.44	0.50	0.57	0.65
		Area-Weighted Override C		0.22	0.24	0.30	0.44	0.50	0.57	0.65

Calculation of Peak Runoff using Rational Method	
--	--

$$Q(cfs) = CIA$$
[illegible]

PRE-VS-POST DRAINAGE RUNOFF SUMMARY

DESIGN	DRAINAGE											VOL-100	SUM-DIF
POINTS	BASINS	AREA (AC)	IMPERVIOUS (%)	C2	C5	C10	C100	Q2 CFS	Q5 CFS	Q10CFS	Q100 CFS	CUBIC FT	CUBIC FT
P1-PRE	EX-1	0.04	62	0.48	0.51	0.56	0.71	0.05	0.07	0.1	0.25	261	
P2-PRE	EX-2	0.06	2	0.01	0.01	0.07	0.44	0	0	0.02	0.18	239	
P3-PRE	EX-3	0.17	12	0.07	0.09	0.15	0.48	0.03	0.04	0.1	0.97	752	
P1-POST	DA-1	0.04	53	0.40	0.43	0.48	0.67	0.04	0.06	0.09	0.36	232	(-) 29
P2-POST	DA-2	0.06	14	0.08	0.10	0.17	0.49	0.01	0.02	0.04	0.35	272	(+) 33
P3-POST	DA-3	0.17	51	0.38	0.41	0.47	0.66	0.16	0.23	0.33	1.37	1034	(+) 281

100-YEAR VOLUME

EX-1	2.54 (0.71) (0.04) = 0.072 AC-IN = 261 CUBIC-FT
EX-2	2.54 (0.43) (0.06) = 0.066 AC-IN = 239 CUBIC-FT
EX-3	2.54 (0.48) (0.17) = 0.207 AC-IN = 752 CUBIC-FT
DA-1	2.54 (0.63) (0.04) = 0.064 AC-IN = 232 CUBIC FT
DA-2	2.54 (0.49) (0.06) = 0.075 AC-IN = 272 CUBIC FT
DA-3	2.54 (0.66) (0.17) = 0.285 AC-IN = 1034 CUBIC FT

PLOTTED MON 05/13/24 10:30AM BY MICHAEL BEST
DRAWING 3 OF 25 824 LEE STREET WING SUBDIVISION_LEN CSD PREDEV DRAINAGE MAP.DWG

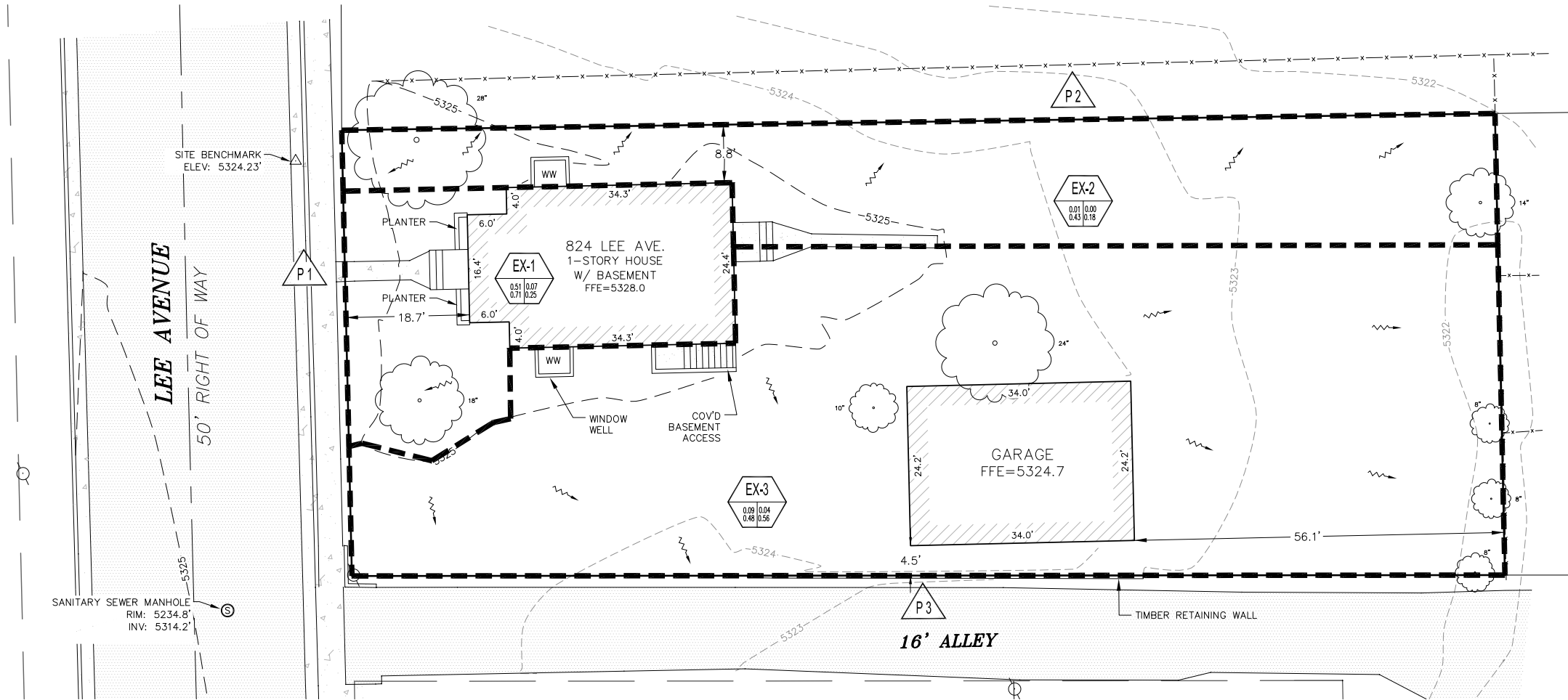


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1 PRE-DEVELOPMENT DRAINAGE MAP

C2.0 SCALE: 1" = 10'-0"

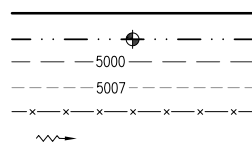


Pre-Development Drainage Summary

DRAINAGE BASIN	Q ₁	Q ₁₀
EX-1	0.07	0.25
EX-2	0.00	0.18
EX-3	0.04	0.56

Legend

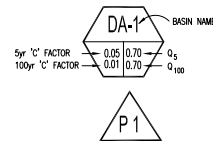
PROPERTY BOUNDARY
SECTION LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING FENCE
DRAINAGE FLOW DIRECTION



INDICATES LIMITS OF DRAINAGE SUB-BASIN

DRAINAGE BASIN

DESIGN POINT



Drainage Area Table

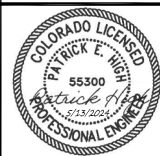
TOTAL DRAINAGE AREA: ±12,063 SQ. FT.

EX-1 AREA: ±1,793 SQ. FT.
BUILDING: ±935 SQ. FT.
CONCRETE: ±172 SQ. FT.
GREEN: ±686 SQ. FT.

EX-2 AREA: ±2,769 SQ. FT.
CONCRETE: ±22 SQ. FT.
GREEN: ±2,747 SQ. FT.

EX-3 AREA: ±7,501 SQ. FT.
BUILDING: ±823 SQ. FT.
CONCRETE: ±55 SQ. FT.
GREEN: ±6,623 SQ. FT.

824 LEE AVE. IMPROVMENTS
824 LEE AVENUE
LOUISVILLE, COLORADO 80027
PRE-DEVELOPMENT DRAINAGE MAP



DATE: 2/23/2024
DRAWN BY: MB
CHECKED BY: PEH
JOB NO: E-435

SHEET NO:

C2.0

3 OF 4

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	SITE PLAN SUBMITTAL	5/13/24	MB

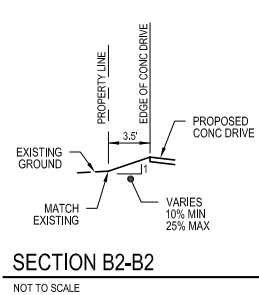
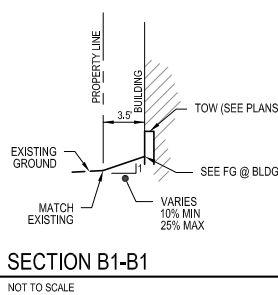
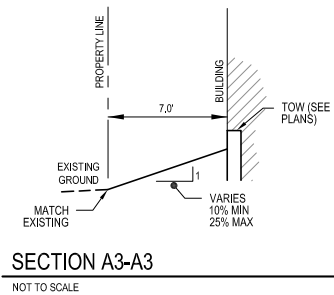
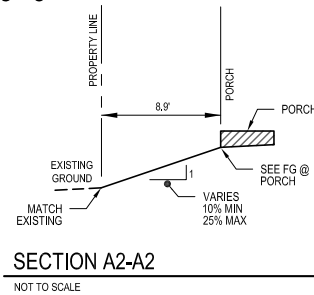
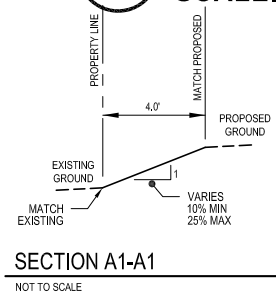
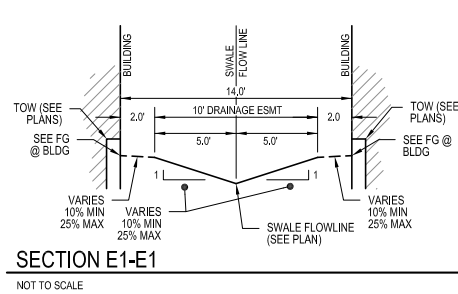
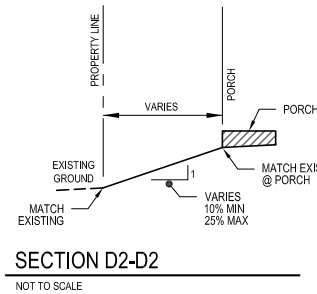
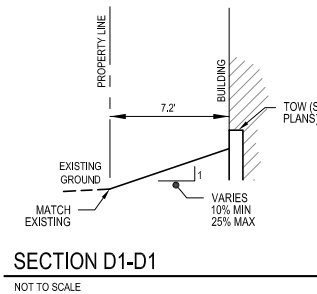
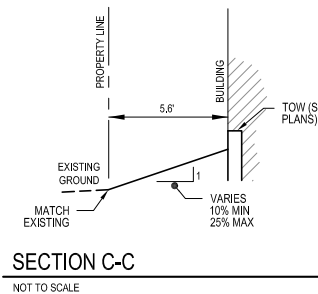
ENGINEERING
PLANNING
SURVEYING



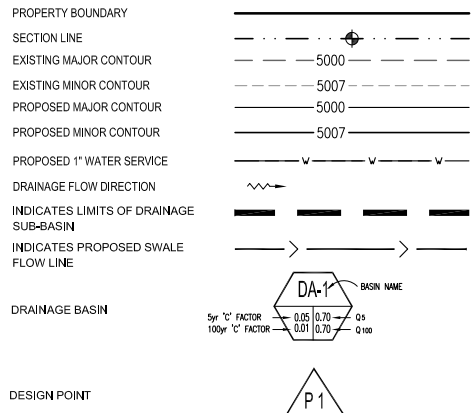
1500 Kansas Ave., Suite 24E
Longmont, CO 80501
P 303.682.1131
F 303.682.1149



FOR BURIED UTILITY INFORMATION
 CALL 811 (or 1-800-822-1987)
 THREE (3) BUSINESS DAYS
 BEFORE YOU DIG
 UTILITY NOTIFICATION CENTER
 OF COLORADO (UNCC)
 www.uncc.org



Legend



PRE- VS- POST DRAINAGE RUNOFF SUMMARY													
DESIGN POINTS	DRAINAGE BASINS	AREA (AC)	IMPERVIOUS (%)	C2	C5	C10	C100	Q2 CFS	Q5 CFS	Q10 CFS	Q100 CFS	VOL-100 CUBIC FT	SUM-OFF CUBIC FT
P1-PRE	EX-1	0.04	62	0.46	0.51	0.56	0.71	0.05	0.07	0.1	0.25	261	
P2-PRE	EX-2	0.06	2	0.01	0.01	0.07	0.44	0	0	0.02	0.18	239	
P3-PRE	EX-3	0.17	12	0.07	0.09	0.15	0.48	0.03	0.04	0.1	0.97	752	
P1-POST	DA-1	0.04	53	0.40	0.43	0.48	0.67	0.04	0.06	0.09	0.36	232	+29
P2-POST	DA-2	0.06	14	0.08	0.10	0.17	0.49	0.01	0.02	0.04	0.35	272	+33
P3-POST	DA-3	0.17	51	0.38	0.41	0.47	0.66	0.16	0.23	0.33	1.37	1034	+281

Basis of Bearings

THE NORTH LINE OF THE SUBJECT PROPERTY, BEARING
 N89°10'07"E (ASSUMED), A DISTANCE OF 175.07 FEET,
 MONUMENTED AS SHOWN HEREON.

Benchmark

BOULDER COUNTY "LL-16D" -2.5" BOULDER COUNTY BRASS
 CAP IN STORM INLET AT THE SOUTHWEST CORNER OF THE
 INTERSECTION OF MAIN AND SPRUCE STREETS, ELEV:
 5338.16' (NAVD88-GEOD18)

Notes

- BUILDING FOOTPRINTS ARE HYPOTHETICAL AS PROVIDED BY ARCHITECT.
- ACTUAL BUILDING FOOTPRINTS MAY VARY FROM THIS DEPICTION.
- ANY REQUIRED MODIFICATIONS TO THE DRAINAGE MAP AND CIVIL DRAWINGS WILL BE PROVIDED AT TIME OF BUILDING PERMIT APPLICATION.



NORTH

100-YEAR VOLUME		
EX-1	2.54 (0.71) (0.04)	= 0.072 AC-IN = 261 CUBIC-FT
EX-2	2.54 (0.43) (0.06)	= 0.066 AC-IN = 239 CUBIC-FT
EX-3	2.54 (0.48) (0.17)	= 0.207 AC-IN = 752 CUBIC-FT
DA-1	2.54 (0.63) (0.04)	= 0.064 AC-IN = 232 CUBIC-FT
DA-2	2.54 (0.49) (0.06)	= 0.075 AC-IN = 272 CUBIC-FT
DA-3	2.54 (0.66) (0.17)	= 0.285 AC-IN = 1034 CUBIC-FT

824 LEE AVE. IMPROVEMENTS

824 LEE AVENUE
LOUISVILLE, COLORADO 80027

POST DEVELOPMENT DRAINAGE MAP



DATE: 2/23/2024
 DRAWN BY: MB
 CHECKED BY: PEH
 JOB NO: E-435

SHEET NO:

C2.1

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REVISIONS		DATE	BY
NO.	DESCRIPTION		
1	SITE PLAN SUBMITTAL	5/13/24	MB
2	PER CLIENT COMMENTS	5/14/24	MB

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