

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

June 3, 2025

Genevieve Donart, P.E.
Isaacson & Arfman, Inc.
128 Monroe St. N.E
Albuquerque, NM 87108

RE: Uptown Hotel
2444 Louisiana Blvd. NE
Grading and Drainage Plans
Engineer's Stamp Date: 05/15/2025
Hydrology File: H19D093
Case # HYDR-2025-00174

Dear Ms. Donart:

Based upon the information provided in your submittal received 05/19/2025, the Grading & Drainage Plan is approved for Grading Permit and Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

NM 87103

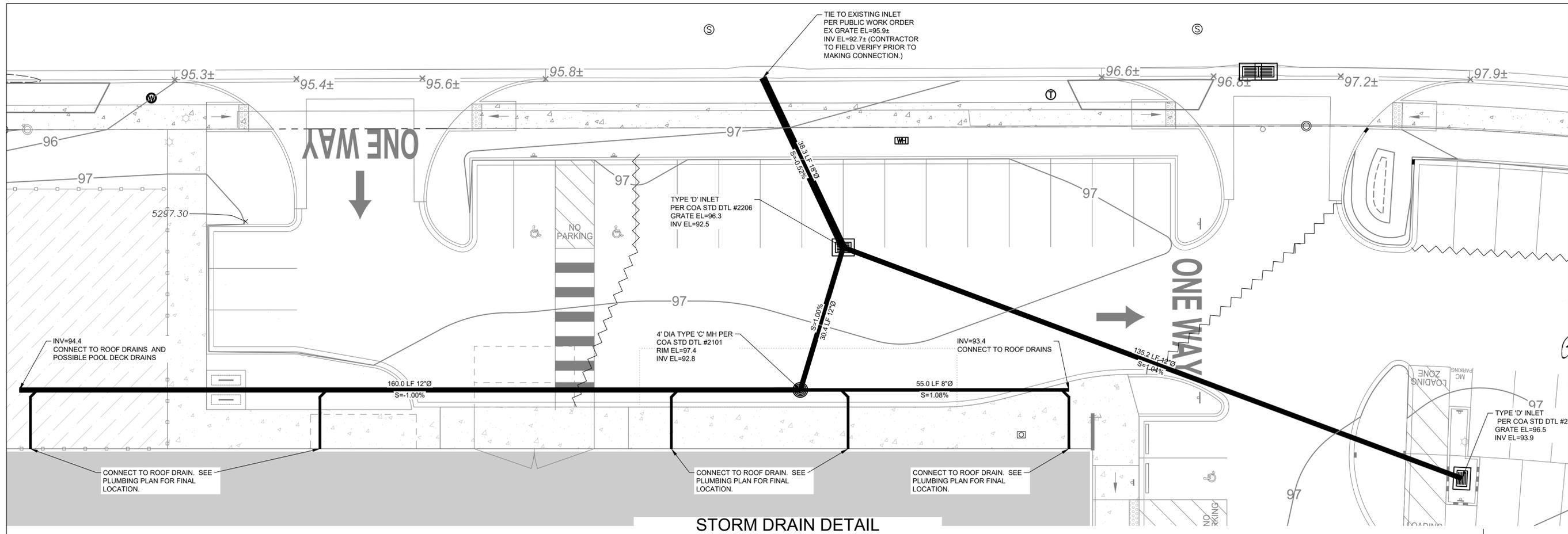
As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E., CFM
Senior Engineer, Hydrology
Planning Department, Development Review Services



STORM DRAIN DETAIL

City of Albuquerque
 Planning Department
 Development Review Services
HYDROLOGY SECTION
APPROVED
 6/3/2025
 H19D093

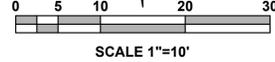
Isaacson & Arfman, Inc.
 Civil Engineering Consultants
 128 Monroe Street NE
 Albuquerque, NM 87108
 505-266-8828 | www.iaacivil.com

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Engineer

UPTOWN HOTEL
 2444 LOUISIANA BLVD NE
 ALBUQUERQUE, NM



CALCULATIONS

CALCULATIONS: Uptown Hotel

100-YEAR, 6-HOUR CALCULATIONS

AREA OF SITE: 74864 SF = 1.72 ACRE

AREA	Treatment %	DEVELOPED FLOWS	EXCESS PRECIP:
Area A	0%	Area A = 0	E _A = 0.67
Area B	0%	Area B = 0	E _B = 0.86
Area C	2%	Area C = 10481	E _C = 1.09
Area D	98%	Area D = 64383	E _D = 2.58
Total Area	100%	Total Area = 74864	

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)
 Weighted E = $E_A A_A + E_B A_B + E_C A_C + E_D A_D$
 Historic E = 2.55 in. | Developed E = 2.37 in.

On-Site Volume of Runoff: $V_{360} = E^*A / 12$
 Historic $V_{360} = 15910$ CF | Developed $V_{360} = 14794$ CF

On-Site Peak Discharge Rate: $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$
 For Precipitation Zone 3
 $Q_{pA} = 1.84$, $Q_{pB} = 3.17$
 $Q_{pC} = 2.49$, $Q_{pD} = 4.49$
 Historic $Q_p = 7.7$ CFS | Developed $Q_p = 7.4$ CFS

BASIN NO.	DESCRIPTION	AREA
A	EAST PARKING LOT	0.82 Ac
B	BLDG	0.5 Ac
C	SURFACE DRAINS TO PROSPECT PL	0.3 Ac
D	SURFACE DRAINS TO LOUISIANA	0.1 Ac

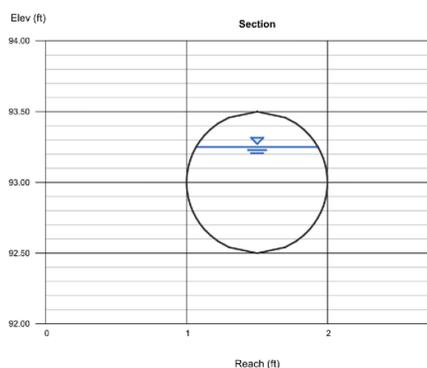
The following calculations are based on Treatment %s as shown in table to the right

Weighted E	Sub-basin Volume of Runoff	Sub-basin Peak Discharge Rate
2.37 in.	7062 CF	3.5 cfs
2.37 in.	4295 CF	2.1 cfs
2.37 in.	2603 CF	1.3 cfs
2.37 in.	580 CF	0.3 cfs

Channel Report
 UPTOWN HOTEL-STORM DRAIN BASIN A

Circular Diameter (ft)	= 1.00
Invert Elev (ft)	= 92.50
Slope (%)	= 1.00
N-Value	= 0.012

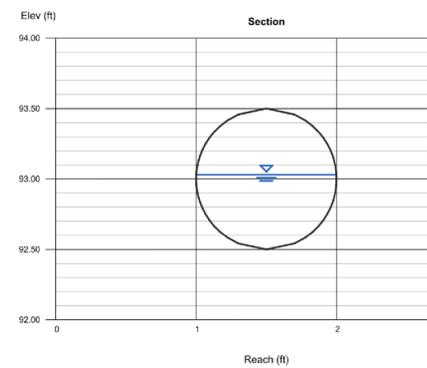
Highlighted: Depth (ft) = 0.75, Q (cfs) = 3.500, Area (sqft) = 0.63, Velocity (ft/s) = 5.54, Wetted Perim (ft) = 2.10, Crit Depth, Yc (ft) = 0.80, Top Width (ft) = 0.87, EGL (ft) = 1.23



Channel Report
 UPTOWN HOTEL-ROOF DRAINS BASIN B

Circular Diameter (ft)	= 1.00
Invert Elev (ft)	= 92.50
Slope (%)	= 1.00
N-Value	= 0.012

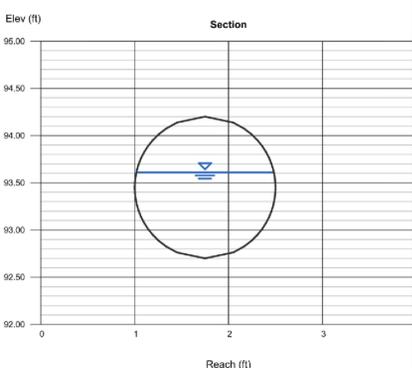
Highlighted: Depth (ft) = 0.53, Q (cfs) = 2.100, Area (sqft) = 0.42, Velocity (ft/s) = 4.94, Wetted Perim (ft) = 1.63, Crit Depth, Yc (ft) = 0.62, Top Width (ft) = 1.00, EGL (ft) = 0.91



Channel Report
 UPTOWN HOTEL-STORM DRAINS BASINS A&B

Circular Diameter (ft)	= 1.50
Invert Elev (ft)	= 92.70
Slope (%)	= 0.52
N-Value	= 0.012

Highlighted: Depth (ft) = 0.91, Q (cfs) = 5.600, Area (sqft) = 1.13, Velocity (ft/s) = 4.97, Wetted Perim (ft) = 2.68, Crit Depth, Yc (ft) = 0.91, Top Width (ft) = 1.48, EGL (ft) = 1.29



DESIGN	ISSUE	DATE	Description
DEVELOPMENT	IA 2732	DEC	
	FILE:	GLD	
	DRAWN BY:	CHECKED BY:	
		DATE:	01/2025

SHEET TITLE: STORM DRAIN DETAILS & CALCULATIONS

SHEET NUMBER: CG-501