CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



August 16, 2021

Scott McGee, P.E. 9700 Sand Verbena Trail NE Albuquerque, NM 87122

RE: Element Hotel

2440 Louisiana Blvd. NE Grading and Drainage Plan Engineer's Stamp Date: 06/25/21

Hydrology File: H19D087

Dear Mr. McGee:

PO Box 1293

Based upon the information provided in your submittal received 07/16/2021, the Grading & Drainage Plan and Drainage Report **are not** approved for Building Permit and Grading Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

1. It is unclear what is being constructed and what is existing. In places the line work for the existing is the same line weight as proposed. There appears to be existing contour lines and proposed contour lines but again there is no clear what is what. Please clean this up.

NM 87103

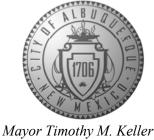
2. Please show the edge of saw cut of the existing pavement and label along this, "Match existing grades". It is currently unclear where the area of construction is starting/stoping.

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- 3. There also seems to be not enough proposed grade points to build this. I reviewed the approved Conceptual G&D and there were defiantly more points than this Grading Plan.
- 4. Please add the legal description of the adjacent property that contributes to the noted offsite flows.
- 5. Under the drainage calculations, please add some separation in the calculations. They almost seem to run on from the Stormwater Quality calculations to the underground retention calculations. It is a little hard to follow.
- 6. Please indicate on the Grading & Drainage Plan where the surface storage of 3,200 CF is being held.
- 7. Please indicate the location of the 5-in orifice located. Is it on the end cap of the underground chamber system? Or is it an orifice plate within the drop inlet?

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- 8. Please check you spelling there are a few words misspelled.
- 9. 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, 924-3420) 14 days prior to any earth disturbance.
- 10. Please provide Drainage Covenant for the stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. Please submit an electronic file of the Covenant and Exhibit for completeness to Marion G. Velasquez at mgvelasquez@cabq.gov. Once the electronic file is approved for completeness, please submit the original copies along with the \$ 25.00 recording fee check made payable to Bernalillo County to Marion on the 4th floor of Plaza de Sol. Please note that Hydrology will need a pdf copy of the recorded Drainage Covenant prior to Hydrology's approval of Permanent Release of Occupancy.

PO Box 1293

11. Standard review fee of \$150 will be required at the time of resubmittal.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Albuquerque

Sincerely,

NM 87103

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

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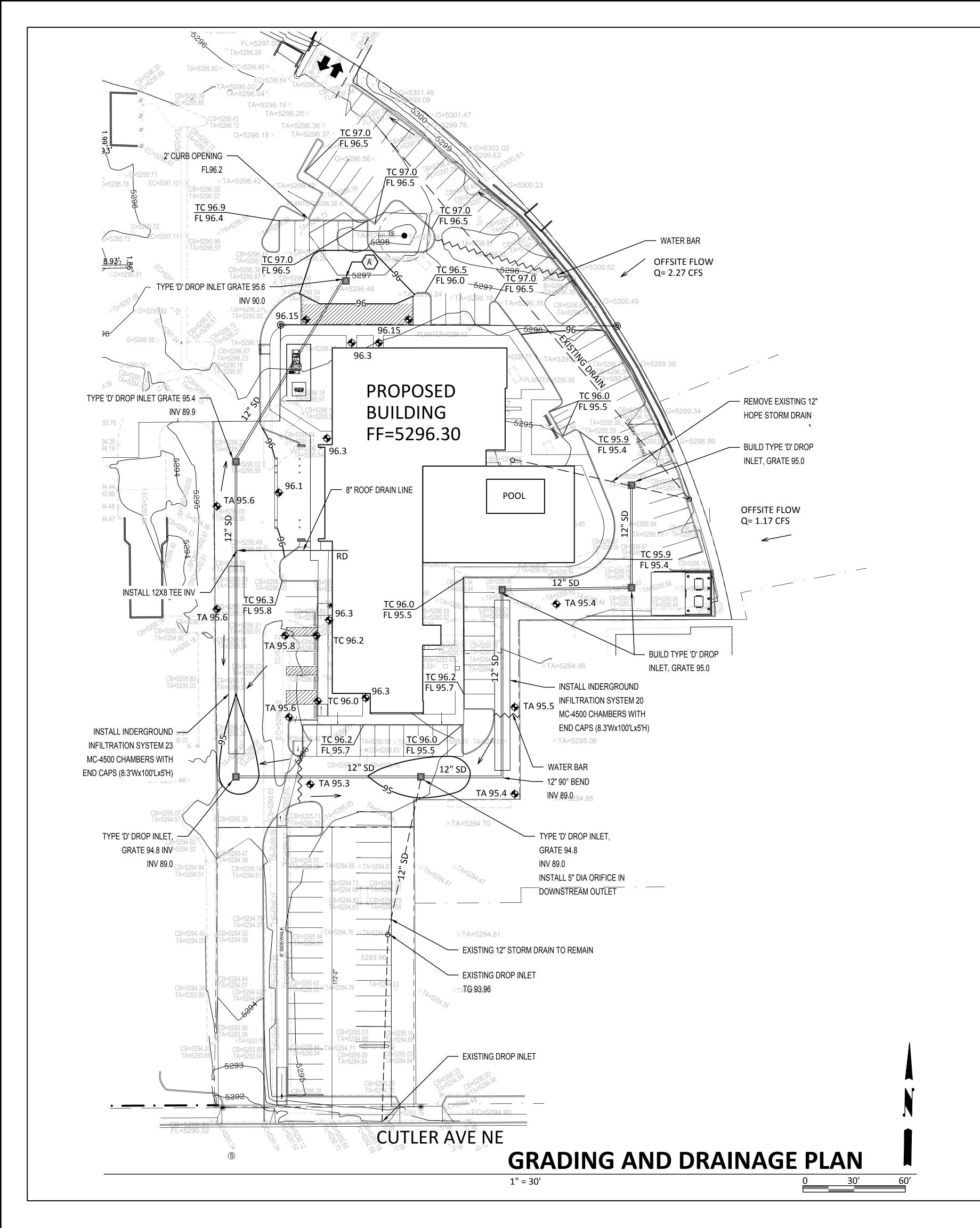
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title:	Building	Permit #:	Hydrology File #:	
DRB#:	EPC#:		Work Order#:	
Legal Description:				
City Address:				
Applicant:			Contact	
Address:Phone#:				
Other Contact:				
Address:				_
		E-mail:		
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCE _	DRB SITE	ADMIN SITE
IS THIS A RESUBMITTAL? Y				
DEPARTMENT: TRAFFIC/TRANSPORTATION		HYDROLOGY/DRAINAGE		
Check all that Apply:		TYPE OF APPROVAL/ACCEPTANCE SOUGHT:		
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMIT APPLIC ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?		BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVA FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT OTHER (SPECIFY)		
DATE SUBMITTED:	By:			

FEE PAID:___



DRAINAGE ANALYSIS

ADDRESS: 2440 Louisiana Blvd NE, Albuquerque, NM

LEGAL DESCRIPTION: TRACT 6-A-1-C-1-A, BLOCK 'C' LOUISIANA SUBDIVISION

SITE AREA: 66,172 SF (1.519 acres)

BENCHMARK: City of Albuquerque Station '15-H18' being a brass cap. ELEV= 5303.391 (NAVD 1988)

SURVEYOR: Survey Office LLC, dated July 2019

PRECIPITATION ZONE: 3

FLOOD HAZARD: From FEMA Map 35001C0352H (8/16/12), this site is identified as being within Zone 'X' which is determined to be of minimal flood hazard.

OFFSITE FLOW: The site does accept offsite flows from two tracts adjacent to the east as shown on the plan. The total Q=3.44 CFS which will continue to be accepted onsite and carried south toward Cutler per the historic flow pattern.

EXISTING CONDITIONS: The site is a fully developed portion of an existing site with asphalt parking and some landscaping. The prior drainage file (H16-D1) was revised by BHI in 1984 and again by Larry Read in 2004 and has an allowable discharge rate of 1.6 CFS. The site slopes down slightly to the southwest at approximately 1.5% and runoff discharges to the public R/W of Cutler Ave NE.

PROPOSED IMPROVEMENTS: The proposed redevelopment of the site includes a new 7-story hotel, a swimming pool, associated paved access and parking, and landscaping.

DRAINAGE APPROACH: The site drainage pattern will follow historic conditions and include the onsite retention of the Storm Water Quality (SWQ) volume. Private storm drains will be extended onsite to provide for catch basins to intercept site runoff with underground retention chambers proposed.

Existing land treatment: 10% C and 90% D Q = [(.10)(3.45)+(0.90)(5.02)](1.52) = 7.4 CFS Proposed land treatment: 2% B, 2% C and 96% D Q = [(0.02)(2.60)+(0.02)(3.45)+(0.96)(5.02)](1.52) = 7.5 CFS

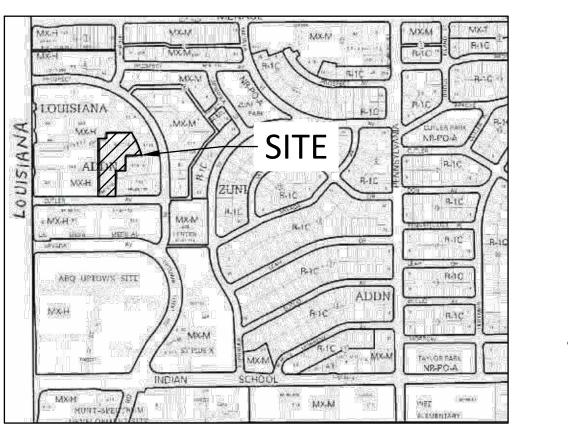
Redevelopment SWQ V= (63,525)(0.26/12)= 1,376 CF

Total underground retention volume provided onsite is 7,940 CF

Surface storage volume is 3,200 CF if water rises to 5295.0 in the parking area

The Hydrograph for Q=3.44+7.5=10.94 CFS and allowable Q=1.6 CFS with a peak
time of 11.4 mins and base time of 24.7 mins produces a required volume of 11,124
CF

The proposed detention (7,940+3,200)=11,140 CF will contain the SWQ volume and restrict discharge to 1.7 CFS. Site runoff will increase from historic but the proposed onsite retention storage will reduce runoff rate to the allowable rate. Orifice equation for 5" diam.: Q=KxA(2gH)*1/2=(0.7)(0.136)(17.9)=1.7 CFS



VICINITY MAP

H-19-Z

LEGEND

EXISTING CONSTRUCTION

NEW CONTOUR

FF=5296.30 PROPOSED BUILDING FINISH FLOOR ELEV

→ 36.5 NEW SPOT ELEVATION

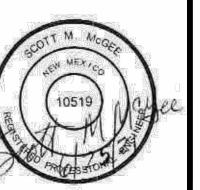
NEW CONSTRUCTION

— RD ROOF DRAIN

TOP OF CURB

ELEMENT HOTEL 2440 LOUISIANA BLVD NE

Scott M McGee PE



9700 Sand Verbena Trail NE Albuquerque, NM 87122 505.263.2905 scottmmcgee@gmail.com