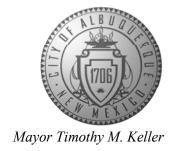
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



July 19, 2024

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

RE: Element Hotel

2440 Louisiana Blvd. NE Permanent C.O. – Accepted

Engineer's Certification Date: 07/12/24

Engineer's Stamp Date: 10/05/21

Hydrology File: H19D087

Dear Mr. McGee:

PO Box 1293 Based on the Certification received 07/12/2024 and site visit on 07/19/2024, this letter serves as

a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by

the Building and Safety Division.

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

Sincerely,

NM 87103

www.cabq.gov

Renée C. Brissette, P.E. CFM

Renée C. Brissette

Senior Engineer, Hydrology

Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title:		Hydrology File #	
Legal Description:			
City Address, UPC, OR Parcel	:		
Applicant/Agent:		Contact:	
Address:			
Email:			
Applicant/Owner:		Contact:	
Address:		Phone:	
Email:			
(Please note that a DFT SITE is or	ne that needs Site Plan A	pproval & ADMIN SITE is one that does not need it.)	
TYPE OF DEVELOPMENT:	PLAT (#of lots)	RESIDENCE	
	DFT SITE	ADMIN SITE	
RE-SUBMITTAL: YES	NO		
DED A DEMENT. TO A NI	SDODT A TION	HVDDOLOGV/DD A DIA CE	
DEPARTMENT: TRANS	SPORTATION	HYDROLOGY/DRAINAGE	
Check all that apply under Both	the Type of Submittal	and the Type of Approval Sought:	
TYPE OF SUBMITTAL:		TYPE OF APPROVAL SOUGHT:	
ENGINEER/ARCHITECT CERTIFICATION		BUILDING PERMIT APPROVAL	
PAD CERTIFICATION		CERTIFICATE OF OCCUPANCY	
CONCEPTUAL G&D PLAN		CONCEPTUAL TCL DFT APPROVAL	
GRADING & DRAINAGE PLAN		PRELIMINARY PLAT APPROVAL	
DRAINAGE REPORT		FINAL PLAT APPROVAL	
DRAINAGE MASTER PLAN		SITE PLAN FOR BLDG PERMIT DFT	
CLOMR/LOMR		APPROVAL	
TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE		SIA/RELEASE OF FINANCIAL GUARANTEE	
		FOUNDATION PERMIT APPROVAL	
TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL		GRADING PERMIT APPROVAL	
TRAFFIC IMPACT STUDY (TIS)		SO-19 APPROVAL	
STREET LIGHT LAYOUT		PAVING PERMIT APPROVAL	
OTHER (SPECIFY)		GRADING PAD CERTIFICATION	
- 111211 (C1 2011 1)		WORK ORDER APPROVAL	
		CLOMR/LOMR	
		OTHER (SPECIFY)	
DATE SUBMITTED:			



August 1, 2023

HYDRO FILE: HI9/DO87

DRAINAGE CERTIFICATION

I, SCOTT M MCGEE, NMPE 10519, OF THE FIRM SCOTT M MCGEE PE, LLC, HEREBY CERTIFY THAT THE UNDERGROUND STORAGE CHAMBERS HAVE BEEN INSTALLED IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10/05/21. THE FIELD DOCUMENTATION WAS PROVIDED BY T L C PLUMBING. I BELIEVE THAT THE SITE CONDITIONS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS DOCUMENTED BY SEVERAL PHOTOS IN THE PROJECT FILE.

SCOTT M MCGEE, NMPE 10519

505.263.2905 P.O. Box 93962, Albuquerque, NM 87199 scottmmcgee@gmail.com

Brissette, Renee C.

From: Scott McGee <scottmmcgee@gmail.com>
Sent: Tuesday, August 1, 2023 2:31 PM
To: Brissette, Renee C.
Cc: Melora Lager
Subject: Fwd: Element Hotel

Attachments: Element Underground Certification.jpg

Follow Up Flag: Follow up Flag Status: Completed

[EXTERNAL] Forward to phishing@cabq.gov and delete if an email causes any concern.

Hi Renee,

I have attached a partial (underground storage chambers) certification for the H19/D087 Hydrology project.

There are also multiple photos attached as provided by T L C Plumbing.

Please contact me with any questions-Thanks, Scott McGee PE 263.2905

From: Cristian Mata < cmata@tlcplumbing.com > Date: July 26, 2023 at 3:20:36 PM MDT

To: Ken Wilt < ken@tmsnm.com > Subject: RE: Element Hotel

Ken,

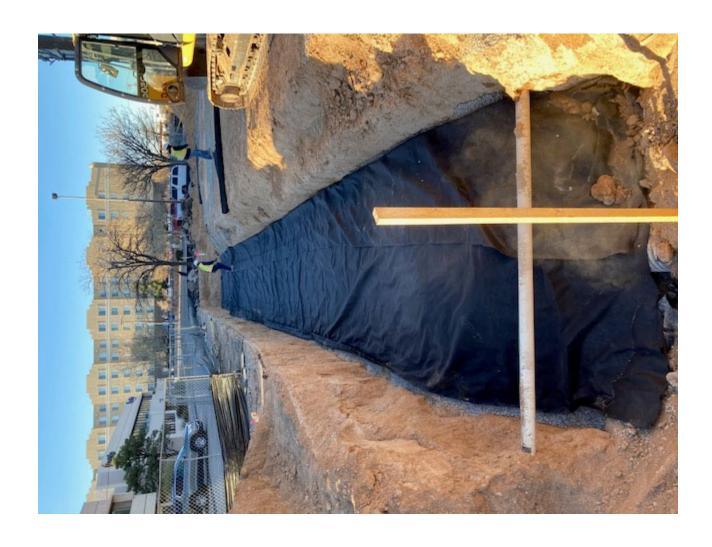
Here are some that my crew sent me during construction that I have filed in the job folder.





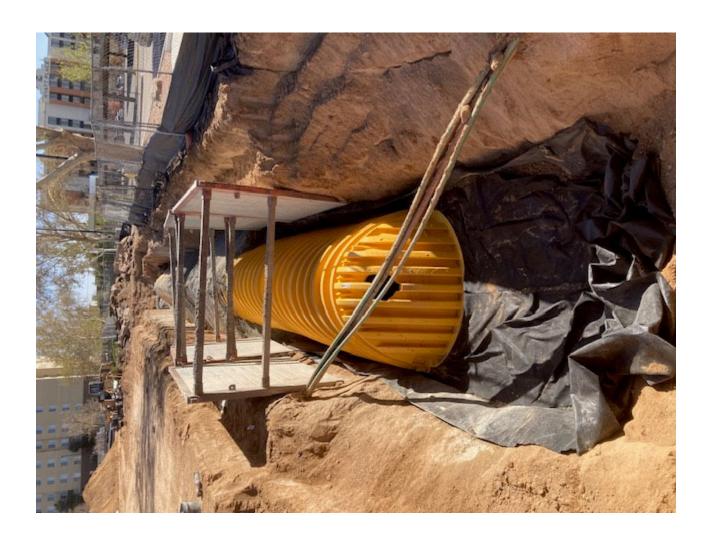




















Cristian Mata



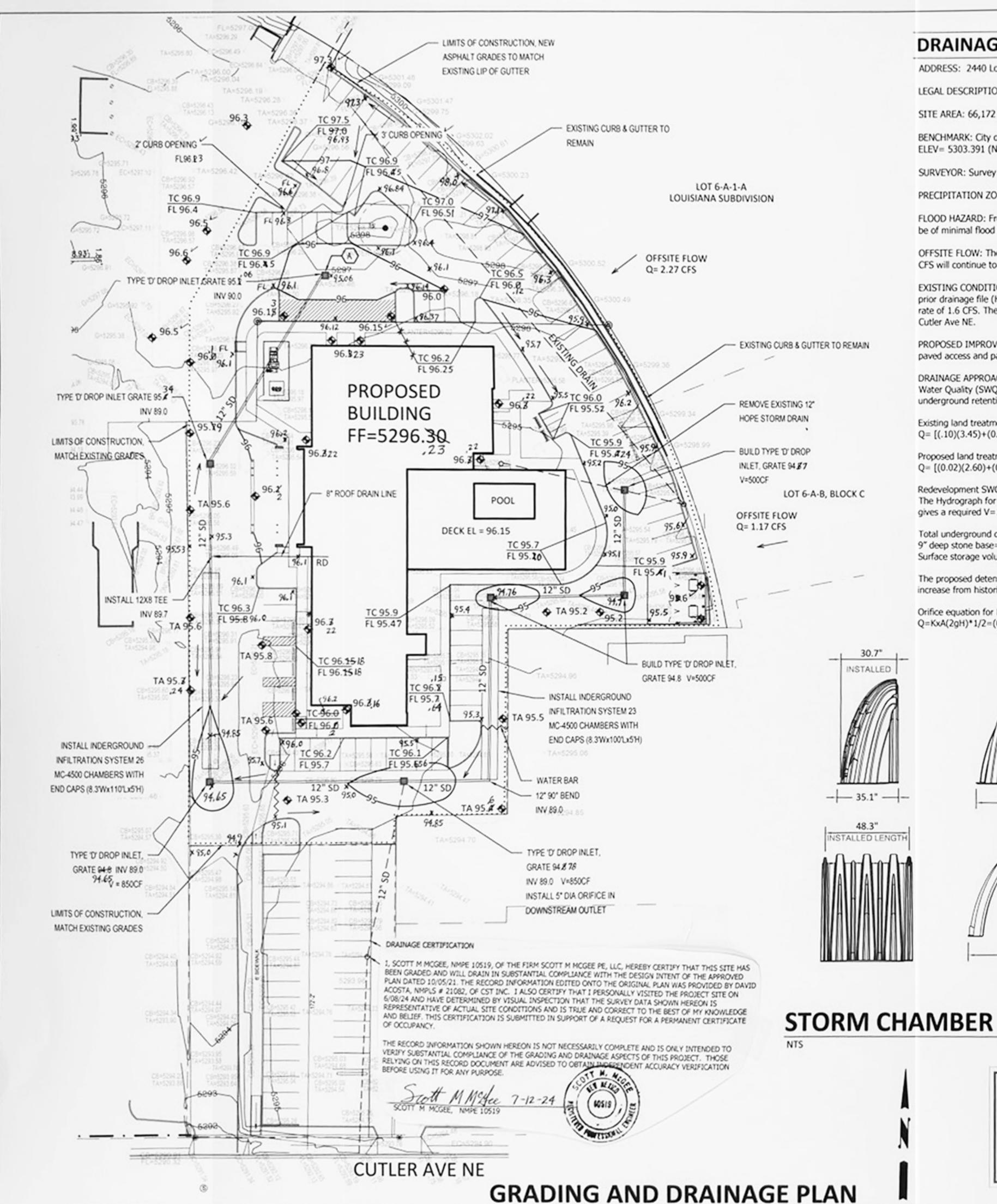




5000 Edith Blvd NE Albuquerque, NM 87107

Phone: 505-362-4162

Fax: 505-761-5559



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 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, This site 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

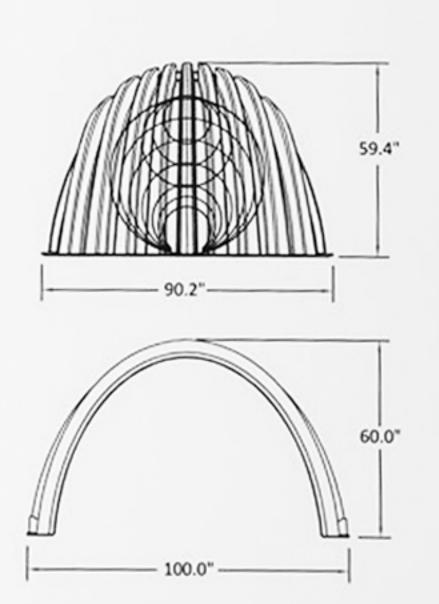
Redevelopment SWQ V= (63,525)(0.26/12)= 1,376 CF

The Hydrograph for Q=3.44+7.5=10.94 CFS and allowable Q=1.6 CFS (peak time of 11.4 mins and base time of 24.7 mins) gives a required V=11,124 CF.

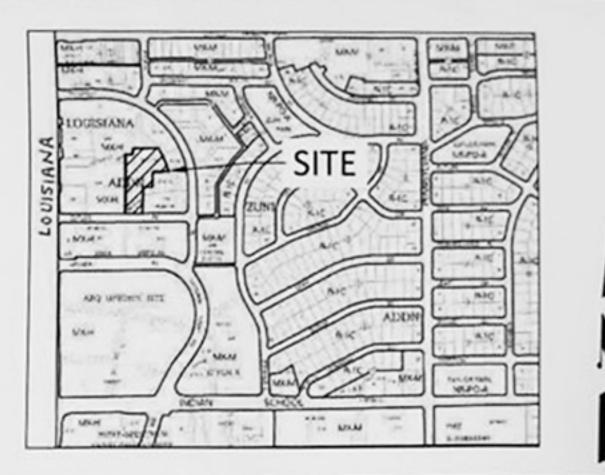
Total underground detention volume provided onsite is 8,428 CF (49 chambers x 162.6 CF/EA)+(4 end caps x 115.3 CF/EA) using 9" deep stone base= 8,248.6 CF Surface storage volume is 2,700 CF at water surface elevation 5295.1

The proposed detention (8,428+2,700)=11,128 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 H=5.0' and 5" diameter orifice: Q=KxA(2gH)*1/2=(0.7)(0.136)(17.9)=1.7 CFS







VICINITY MAP

H-19-Z

LEGEND

EXISTING CONSTRUCTION

NEW CONTOUR

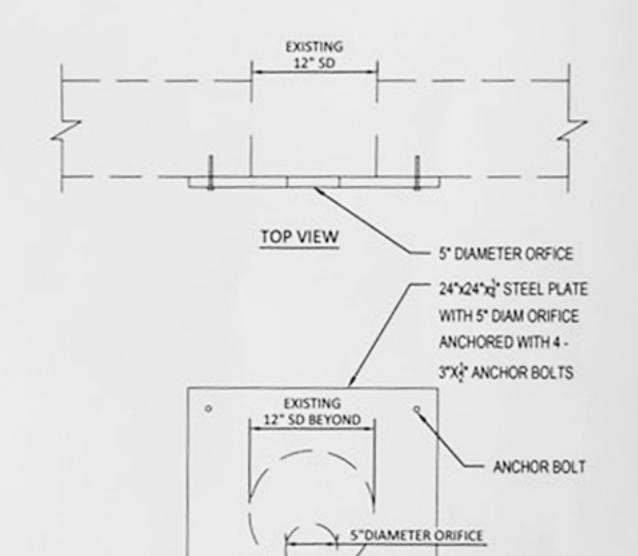
FF=5296.30 PROPOSED BUILDING FINISH FLOOR ELEV

AS-BUILT ELEVATION

NEW SPOT ELEVATION **NEW CONSTRUCTION**

ROOF DRAIN

TOP OF CURB · · · · · LIMITS OF CONSTRUCTION



ELEVATION

EXISTING INLET W/ORIFICE PLATE

ELEMENT HOTEL 2440 LOUISIANA BLVD NE

Scott M McGee PE

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



