# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

October 23, 2024

Glenn Broughton, P.E. Bohannan Huston, Inc. 7500 Jefferson St NE Albuquerque, NM 87109

#### RE: Presbyterian Hospital Hybrid O.R. 1100 Central Ave. SE Grading and Drainage Plans Engineer's Stamp Date: 10/22/2024 Hydrology File: K15D005A1

Dear Mr. Broughton:

Based upon the information provided in your submittal received 10/22/2024, the Grading & Drainage Plans are 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.

#### PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

NM 87103

PO Box 1293

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

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 505-924-3362 or <u>richardmartinez@cabq.gov</u>.

Sincerely,

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Richard Martinez, P.E. 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:Address: Email:Applicant/Owner:Address:Email:		Phone:									
		Contact Phone:	:								
TYPE OF DEVELOPMENT: Plat (# of lots)			Single Family Home All other Developments								
	RE-SUBMITTAL:	YES	NO								
DEPARTMENT: TRANS	SPORTATION	HYDROLO	DGY/DRAINAGE								
Check all that apply under Both	the Type of Submittal a	nd the Type	of Approval Sought:								
TYPE OF SUBMITTAL:		TYPE OF	APPROVAL SOUGHT:								
Engineering / Architect Certification		Pad Certification									
Conceptual Grading & Drainage Plan		Building Permit									
Grading & Drainage Plan, and/or Drainage Report		Grading Permit Paving Permit									
Drainage Report (Work Order) Drainage Master Plan Conditional Letter of Map Revision (CLOMR) Letter of Map Revision (LOMR) Floodplain Development Permit Traffic Circulation Layout (TCL) – Administrative Traffic Circulation Layout (TCL) – DFT Approval		SO-19 Permit Foundation Permit									
									te of Occupancy - Temp	Perm	
		Preliminary / Final Plat Site Plan for Building Permit - DFT Work Order (DRC)									
							Release of Financial Guarantee (ROFG) CLOMR / LOMR				
							Traffic Impact Study (TIS)		Concept	ual TCL - DFT	
		Street Light Layout		OTHER	(SPECIFY)						
		OTHER (SPECIFY)									

### **CITY OF ALBUQUERQUE PLANNING DEPARTMENT** HYDROLOGY DEVELOPMENT SECTION

### WAIVER APPLICATION FROM STORMWATER **QUALITY VOLUME MANAGEMENT ON-SITE**

#### **GENERAL INFORMATION**

APPLICANT: \_\_\_\_\_ DATE: \_\_\_\_\_

DEVELOPMENT:

LOCATION:

### STORMWATER QUALITY POND VOLUME

Per the DPM Article 6-12 - Stormwater Quality and Low-Impact Development, the calculated sizing for required Stormwater Quality Pond volume is equal to the impervious area draining to the BMP multiplied by 0.42 inches for new development sites and by 0.26 inches for redevelopment sites.

The required volume is \_\_\_\_\_\_ cubic feet

The provided volume is cubic feet

The deficient volume is \_\_\_\_\_\_ cubic feet

### WAIVER JUSTIFICATION

Per the DPM Article 6-12(C), private off-site mitigation and payment-in-lieu may only be considered if management on-site is waived in accordance with the following criteria and procedures.

1. Management on-site shall be waived by the City Engineer if the following conditions are met:

- a. Stormwater quality can be effectively controlled through private off-site mitigation or through an arrangement (approved by the City) to use a cooperator's existing regional stormwater management infrastructure or facilities that are available to control stormwater quality.
- b. Any of the following conditions apply:
  - i. The lot is too small to accommodate management on site while also accommodating the full plan of development.
  - ii. The soil is not stable as demonstrated by a geotechnical report certified by a professional engineer licensed in the State of New Mexico.
  - iii. The site use is inconsistent with the capture and reuse of stormwater.
  - iv. Other physical conditions exist where compliance with on-site stormwater quality control leaves insufficient area.
  - v. Public or private off-site facilities provide an opportunity to effectively accomplish the mitigation requirements of the Drainage Ordinance (Part 14-5-2 ROA 1994) as demonstrated on as-built construction drawings and an approved drainage report.
  - vi. The developer constructs a project to replenish regional groundwater supplies at an off-site location.
  - vii. A waiver to State water law or acquisition of water rights would be required in order to implement management on site.
- 2. The basis for requesting payment-in-lieu or private off-site mitigation is to be clearly demonstrated on the drainage plan.

This project's justification:

Professional Engineer or Architect

### **PAYMENT-IN-LIEU**

Per the DPM Article 6-12(C)(1), the amount of payment-in-lieu is deficient volume (cubic feet) times \$6 per cubic feet for detached single-family residential projects or \$8 per cubic feet for all other projects.

AMOUNT OF PAYMENT-IN-LIEU = \$\_\_\_\_\_

### THIS SECTION IS FOR CITY USE ONLY

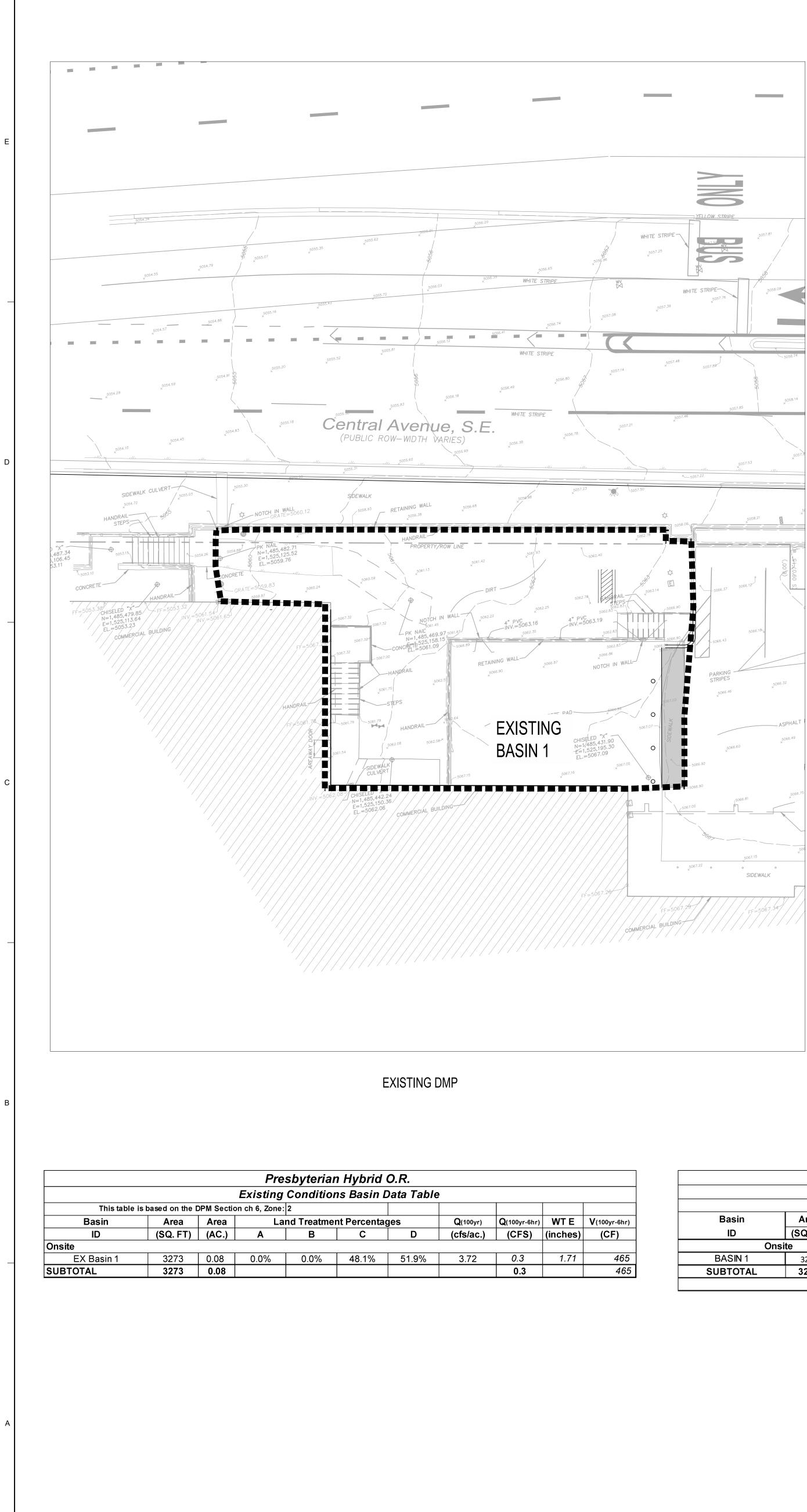
Waiver is approved. The amount of payment-in-lieu from above must be paid prior to Certificate of Occupancy.



Waiver is DENIED.

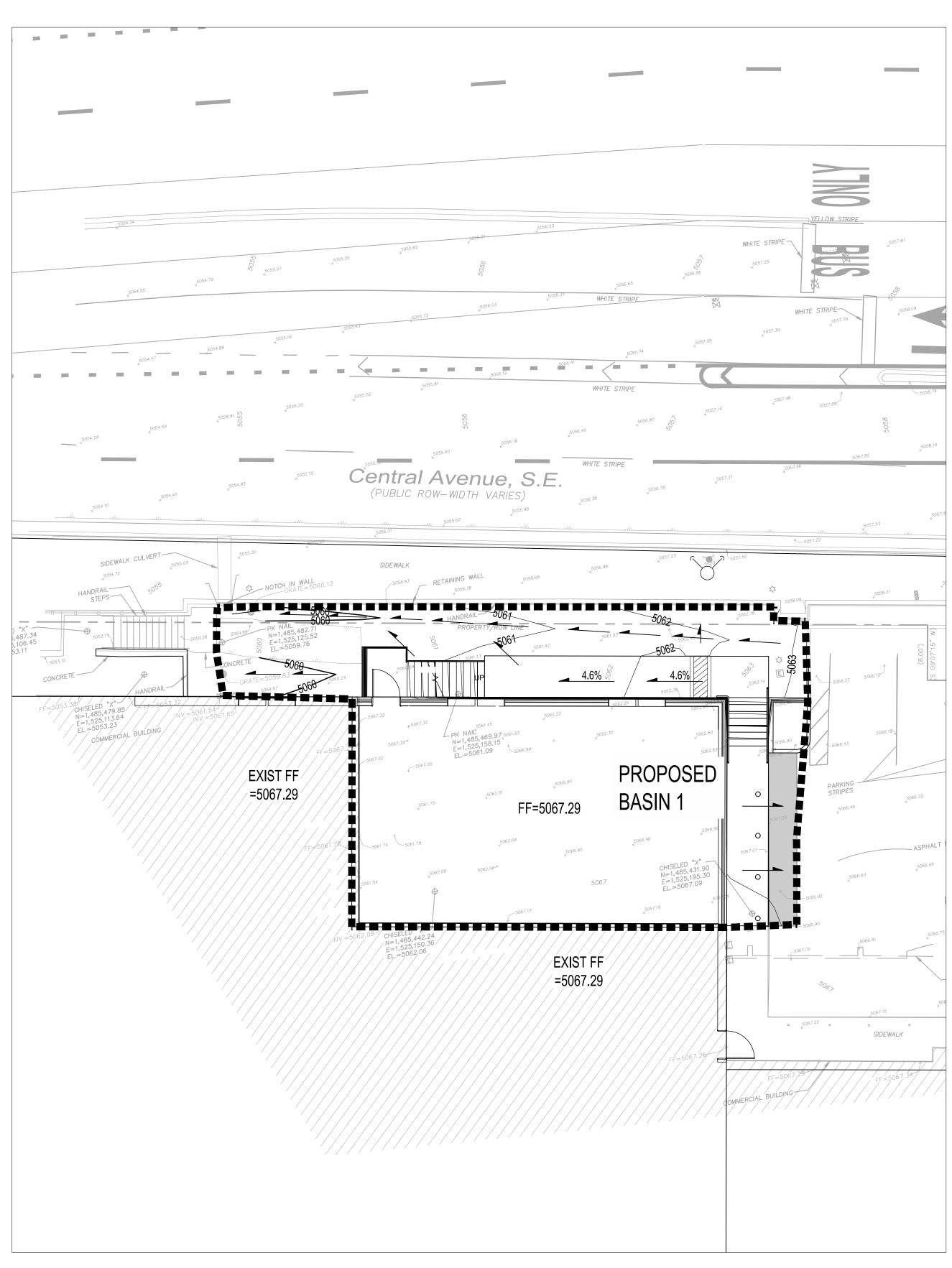
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Richard Martinez City of Albuquerque Hydrology Section 10/23/2024



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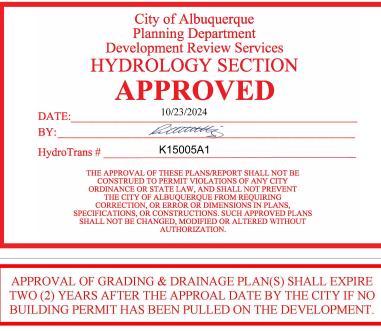
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				Propo	sed Condi	tions Basi	n Data Table	9				
				This table i	s based on th	ne DPM Sec	tion 6-2, Zone:	2				
Basin	Area	Area	Lan	d Treatme	ent Percent	tages	Q(100yr)	Q(100yr)	V(100yr)	V <sub>(100yr-6hr)</sub>	V <sub>(100yr-24hr)</sub>	*SW Quality
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
On	site											
BASIN 1	3273	0.08	0.0%	0.0%	17.1%	82.9%	4.12	0.3	2.1	575	643	95
SUBTOTAL	3273	0.08	-	-	-	-	-	0.3	-	575	643	95

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PROPOSED DMP

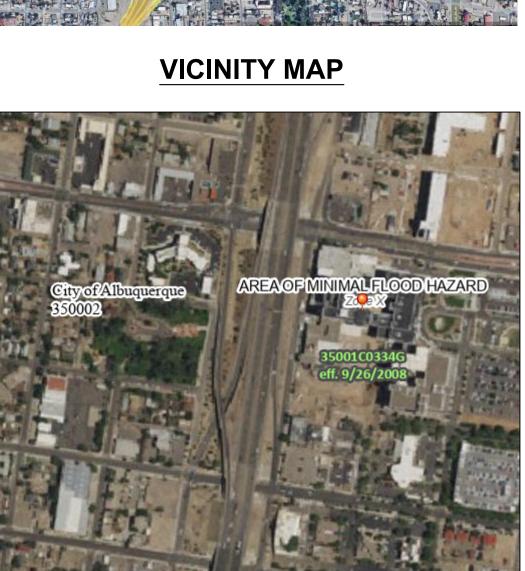
# LEGEND

	PROPERTY LINE
	LIMITS OF GRADING
— — 5025 — — —	EXISTING INDEX CONTOUR
— — 5024 — — —	EXISTING INTERMEDIATE
	PROPOSED INDEX CONTOUR
5024	PROPOSED INTERMEDIATE CONTOUR
	DRAINAGE BASIN
	FLOW ARROW
	City of Albuquerque



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FEMA FIRM MAP # 35001C03346

# DRAINAGE NARRATIVE

### INTRODUCTION:

THE PROJECT IS LOCATED ON THE SOUTHEAST CORNER OF OAK STREET AND CENTRAL AVE. THE SITE WILL CONSIST OF A 1,800 SQUARE FOOT BUILDING ADDITION, PEDESTRIAN ACCESS, AND MINOR MODIFICATIONS TO AN EXISTING PARKING AREA. PER FEMA COMMUNITY MAP PANEL #35001C03346, THE SITE IS NOT LOCATED WITHIN A FLOODPLAIN.

### METHODOLOGY:

THE HYDROLOGIC ANALYSIS PROVIDED WITH THIS DRAINAGE SUBMITTAL HAS BEEN PREPARED IN ACCORDANCE WITH THE RECENT ADOPTION OF THE NEW DEVELOPMENT PROCESS MANUAL, SPECIFICALLY CHAPTER 6 (DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL). LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE ACTUAL CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "EXISTING BASIN DATA TABLE AND "PROPOSED BASIN DATA TABLE". THIS SITE WAS ANALYZED FOR THE 100-YEAR, 6-HOUR STORM EVENT.

### EXISTING CONDITIONS:

THE EXISTING SITE IS DEVELOPED AND CONSISTS OF AN ELEVATED CONCRETE PAD, CONCRETE STAIRS, SIDEWALK AND ASPHALT PEDESTRIAN PATH.THE SITE GENERALLY SURFACE DRAINS TO THE NORTHWEST TO THE CORNER OF THE SITE WHERE THERE ARE TWO EXISTING DOME GRATE INLETS THAT CARRY OFF ALL THE FLOW IN AN EXISTING STORM DRAIN NETWORK AND DISCHARGES INTO CENTRAL AVE VIA A SIDEWALK CULVERT.

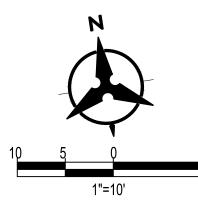
### PROPOSED:

THE PROPOSED SITE CONSISTS OF THE BUILDING ADDITION, PEDESTRIAN ACCESS AND MINOR MODIFICATIONS TO THE EXISTING PARKING AREA. PROPOSED BASIN 1 FOLLOWS THE SAME DRAINAGE PATTERNS AS THE EXISTING FLOW WHERE THE DRAINAGE SURFACE DRAINS TO THE NORTHWEST TO THE CORNER OF THE SITE WHERE THERE ARE TWO EXISTING DOME GRATE INLETS THAT CARRY OFF ALL THE FLOW IN AN EXISTING STORM DRAIN NETWORK AND DISCHARGES INTO CENTRAL AVE VIA A SIDEWALK CULVERT.

NO RETENTION VOLUME WILL BE PROVIDED WITH THESE SITE MODIFICATIONS. THE AREA AVAILABLE TO INCORPORATE A RETENTION POND IS ADJACENT TO THE EXISTING RETAINING WALL ALONG CENTRAL AVE AND THE NEW BUILDING FOUNDATION. PONDING WITHIN THE PROJECT SITE COULD POTENTIALLY COMPROMISE THE WALL OR BUILDING ADDITION FOUNDATIONS; THEREFOR PROVIDING RETENTION PONDING IS NOT RECOMMENDED. FOR THESE REASONS THE OWNER IS ELECTING TO MAKE PAYMENT IN LIEU OF ONSITE MANAGEMENT. THE PAYMENT IN LIEU WILL BE 95 CF \* \$8/CF = \$760.00. THE STORM WATER QUALITY VOLUME IS BASED ON A PRECIPITATION DEPTH OF 0.42" FOR NEW DEVELOPED SITES.

### CONCLUSION:

THE PROPOSED SITE FOLLOWS THE SAME DRAINAGE PATTERNS AS THE CURRENT EXISTING CONDITIONS. WITH THE REDEVELOPMENT OF THIS SITE THE EXISTING DRAINAGE PATTERNS AND PEAK DISCHARGE FLOW RATES WILL NOT SIGNIFICANTLY CHANGE. PROVIDING ONSITE RETENTION VOLUME TO COMPLY WITH SECTION 6-11 OF THE DPM IS NOT TECHNICALLY FEASIBLE. THE OWNER WILL PAY CASH IN LIEU BASED ON THE CALCULATED RETENTION VOLUME OF 139 CUBIC FEET. THIS DRAINAGE MANAGEMENT PLAN IS BEING SUBMITTED IN SUPPORT OF HYDROLOGY APPROVAL FOR BUILDING PERMIT.





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### SHEET NO

### EXISTING AND PROPOSED DMP

DRAWING NAME

REVISIONS

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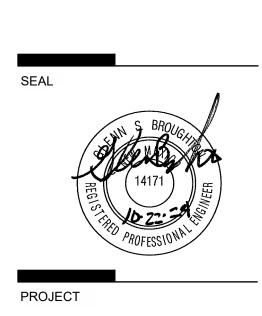
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DRAWN BY	BF
REVIEWED BY	GSB
DATE	10/22/2024
PROJECT NO	24-0051.001

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**ISSUED FOR** 

PERMIT



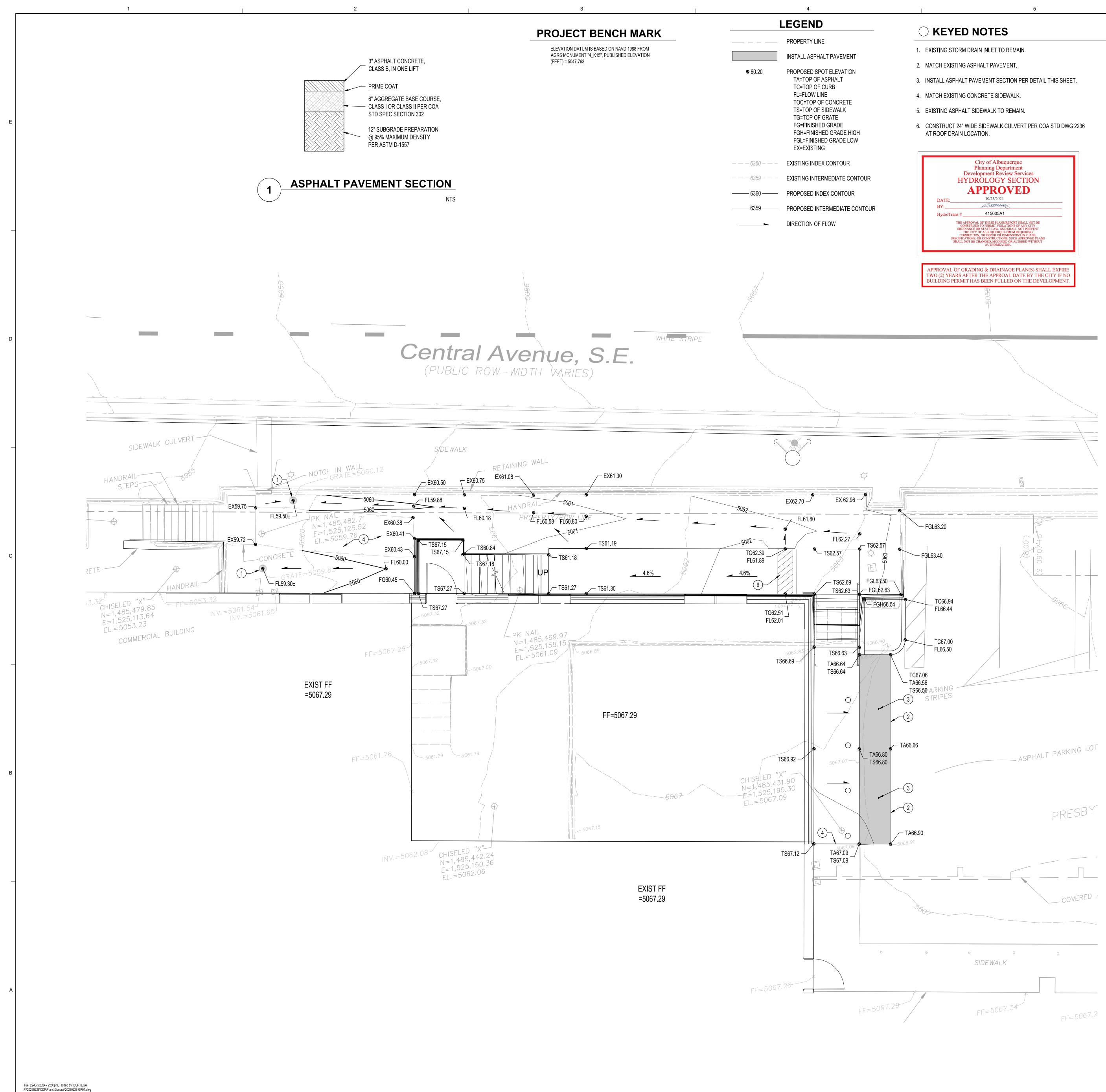
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## **GENERAL NOTES**

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.

2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).

10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES.

14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

### **GRADING NOTES**

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION". ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.

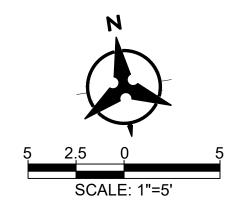
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

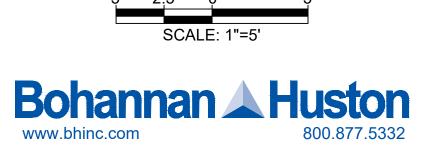
8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

9. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

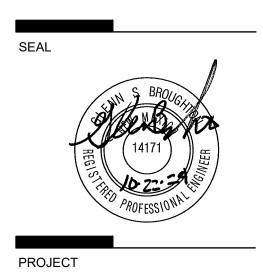
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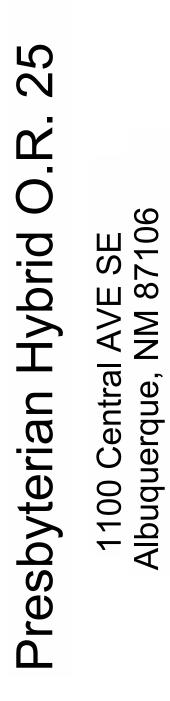
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# **ISSUED FOR** PERMIT

REVISIONS

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DRAWN BY	ВО
REVIEWED BY	GSB
DATE	10/22/2024
PROJECT NO	24-0051.001

DRAWING NAME

SHEET NO

**GRADING PLAN** 

C-101