CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



October 24, 2022

Thomas D. Johnston, PE George T Rodriguez-Development Consultant 12800 San Juan Rd. SE Albuquerque, NM 87123

RE: Harvard Apartments
214 Harvard Dr. SE
Grading & Drainage Plan
Engineer's Stamp Date: 10/18/22
Hydrology File: K16D091

Dear Mr. Johnston:

Based upon the information provided in your submittal received 10/24/2022, the Grading & Drainage Plans are approved for 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

2. Please pay the Payment-in-Lieu of \$ 1,010.40 by emailing the attached approved Waiver Application from Stormwater Quality Volume Management On-site to PLNDRS@cabg.gov. Once this is received, a receipt will then produce and email back with instructions on how to pay online. Once paid, please email me proof of payment.

www.cabq.gov

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.

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

Sincerely,

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

Renée C. Brissette

Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6 2018)

Project Title: HARVARD APARTME	Building Perm	it #: Hydrology File #: <u>KIGDO</u> 9:
DRB#:	EPC#:	Work Order#:
Legal Description: LOT 7, BLOCK	7. UNIVERSI	ITY HEIGHTS' ADDITICH
City Address: 214 HARVARD =	DRIVE S.C.	
Applicant: RBA ARCHITECTL	IRE, PC	Contact: KICK BENNETT
Address: 1104 PARK AVE	YUE Sall-	LLBUQUERQUE N.M. 87102
Phone#: 505-242-1859	Fax#:	LBUQUERQUE, N.M. 87102 E-mail: <u>rick@rba81</u> -co
THOMAS D. JOHAS Other Contact: GEORGE T. RODRIGE	ICH N.M.T-C VEZ-DEYELOPP	MENT CONSULTANT Contact: CEORGE ROSPIGNE
Address: 12000 SPV V CAPVY 1410		14-10- 611-
Phone#: 505-610-0593	Fax#:	E-mail: <u>pawrod@hotma</u> js.
TYPE OF DEVELOPMENT: PLA	AT (# of lots)	RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL? Ye		
DEPARTMENT TRANSPORTATION	N HYDR	OLOGY/DRAINAGE
Check all that Apply:		TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL
TYPE OF SUBMITTAL:		CERTIFICATE OF OCCUPANCY
ENGINEER/ARCHITECT CERTIFICAT	ION	CERTIFICATE OF OCCUPANCE
PAD CERTIFICATION		PRELIMINARY PLAT APPROVAL
CONCEPTUAL G & D PLAN		SITE PLAN FOR SUB'D APPROVAL
GRADING PLAN		SITE PLAN FOR BLDG. PERMIT APPROVAL
UDRAINAGE REPORT		FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN		
FLOODPLAIN DEVELOPMENT PERM	IT APPLIC	SIA/ RELEASE OF FINANCIAL GUARANTEE
ELEVATION CERTIFICATE		FOUNDATION PERMIT APPROVAL
CLOMR/LOMR		GRADING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (T	CL)	SO-19 APPROVAL
TRAFFIC IMPACT STUDY (TIS)		PAVING PERMIT APPROVAL
STREET LIGHT LAYOUT		GRADING/ PAD CERTIFICATION
OTHER (SPECIFY)		WORK ORDER APPROVAL
PRE-DESIGN MEETING?		CLOMR/LOMR
		FLOODPLAIN DEVELOPMENT PERMIT
10-19	5 244	OTHER (SPECIFY)
DATE SUBMITTED: 05-25-21	2022 1922 By: <u>CEO</u> R	
DATE SOUNTAINS.		
COA STAFF:	FI FCTRONIC SI	JBMITTAL RECEIVED:

FEE PAID:

CITY OF ALBUQUERQUE PLANNING DEPARTMENT HYDROLOGY DEVELOPMENT SECTION

WAIVER APPLICATION FROM STORMWATER QUALITY VOLUME MANAGEMENT ON-SITE

GENERAL INFORMATION
APPLICANT: THOMAS D. JOHNSTON, P.E. DATE: 10-18-2022
DEVELOPMENT: HARVARD APARTMENTS
LOCATION: 2/4 HARVARD S.E., ALBURUERQUE, N.M.
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 126-3 cubic feet
The provided volume is cubic feet
The deficient volume is 126-3 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: THE LOT IS TOO SMALL TO
	ACCOMMODATE MANAGEMENT ON SITE
	WHILE ALSO ACCOMMODATING THE
_	FULL PLAN OF DEVELOPMENT.
_	
_	
-	
-	FULL PLAN OF DEVELOPMENT.

Professional Engineer or Architect



PAY	MENT-IN-LIEU
Per th	ne DPM Article 6-12(C)(1), the amount of payment-in-lieu is deficient volume (cubic feet) times \$6 abic feet for detached single-family residential projects or \$8 per cubic feet for all other projects.
AMO	UNT OF PAYMENT-IN-LIEU = \$ 1,010,40
THI	S SECTION IS FOR CITY USE ONLY
X	Waiver is approved. The amount of payment-in-lieu from above must be paid prior to Certificat of Occupancy.
	Waiver is DENIED.
	Renée C. Brissette City of Albuquerque Hydrology Section

GENERAL NOTES

1) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.

2) NO SEARCH HAS BEEN MADE FOR BASEMENTS OF RECORD OTHER THAN

GENERAL NOTES:

- 1: CONTOUR INTERVAL IS ONE (1) FOOT.
- 2: ELEVATIONS ARE BASED ON READINGS TAKEN WITH A STONEX SIDA GPS UNIT ELEVATIONS SHOWN ARE NAVD 1988
- 3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-
- : THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCE HEREON

LEGAL DESCRIPTION: LOT SEVEN (7) IN BLOCK SEVEN (7), UNIVERSITY HEIGHTS ADDITION, ALBUQUERQUE, NEW MEXICO.

Section 6-2(A)(2) Land Treatments

All land areas are described by one of four basic land treatments or by a combination of the four land treatments. Land treatments are provided in TABLE 5.29.

Treatment	Land Condition
A (CN=77)	Soil uncompacted by human activity with 0 to 10% slopes. Native grasses, weeds, and shrubs in typical densities with minimal disturbance to grading, ground cover, and infiltration capacity.
B (CN=79)	Irrigated lawns, parks and golf courses with 0 to 10% slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10% and less than 20%.
C (CN=86)	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock (desert landscaping). Imigated lawns and parks with slopes greater than 10%. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20% or greater. Native grass, weed and shrub areas with clay or day loam soils, and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D (CN=98)	Impervious areas, pavement, and roofs. Ponds, channels, and wetlands, even if seasonally dry.

The 6-hour excess precipitation, E. by zone and treatment is summarized in

Zone		- Land Tree	ttment	
	Α	8	, ; C	D.
100-Y	EAR EXCESS PARTIC	IPATION, E (IN)		
1	0.55	0.73	0.95	2.24
2)	0.62	0.80	1.03	2.33
3	0.67	0.86	1.09	2.58
*	076	005	1 20	3.74

Section 6-2(A)(5) Peak Discharge Rate for Small

The peak discharge rate is given in <u>TABLE 5.2.14</u> for small watersheds, less than or equal to 40 acres, where the time of concentration is assumed to be 12

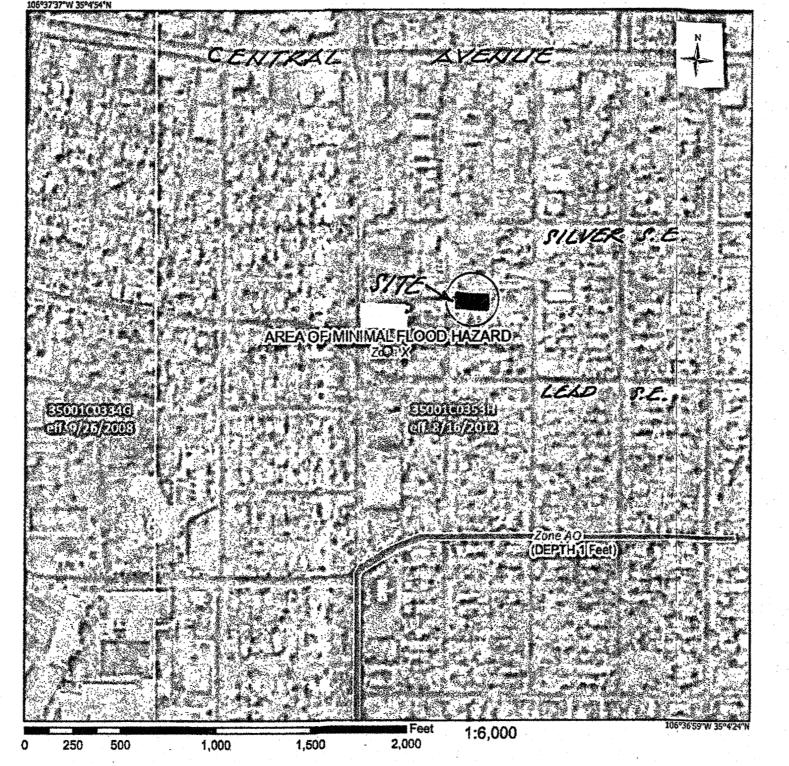
Zone	Land Treatment				
Γ	A	8	C	D	
100-YEA	R PEAK DISCHA	RGE (CSF/ACRE)		•	
1	1.54	2.16	2.87	4.12	
2)	1.71	236	3.05	4.34	
3	1.84	2.49	3.17	4.49	
4	2.09	2.73	3.41	4.78	

ween rstate 40

GEORGE T. RODRIGUEZ

12800 SAN JUAN, N.E. ALBUQUERQUE, NEW MEXICO 87123





FEMA PANEL NO. 35001C0353H, (EFFECTIVE: 08-16-2012)

3-STORY APARTMENT BLOG.

F.F. = 5169.75

EXISTING G'HIGH

NOTE: PROVIDE 1-2" PVC DRAIN PIPE

BLOCK KILL

(EXISTING G'HIGH)

142.00'

3- GO 20

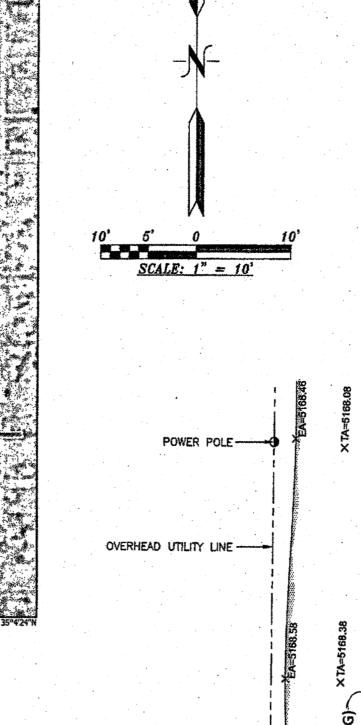
FPAINT STRIPE (TYP)

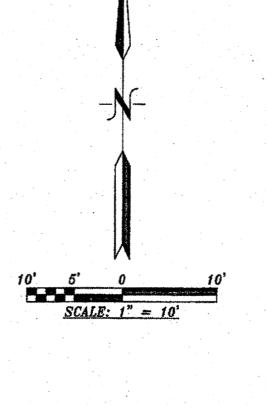
SIDEKIKLK FLUSH

WATER METER -ELEVATION-5169.05

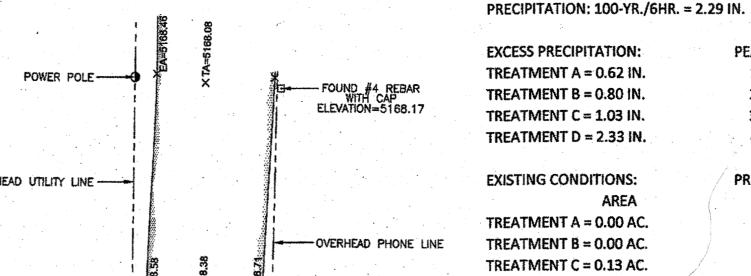
WITH PAVILLE

National Flood Hazard Layer FIRMette





FEMA



10 DANIO

SANITARY SEWER MANHOLE
ELEVATION=5168.64

EXISTING EXCESS PRECIPITATION:

TREATMENT D = 0.03 AC.

DRAINAGE COMMENTS

DRAINAGE CALCULATIONS:

PRECIPITATION ZONE: TWO (2)

SITE AREA = 0.16 ACRE

WEIGHTED 'E' = $(0.62 \times 0.00) + (0.80 \times 0.00) + (1.03 \times 0.13) + (2.33 \times 0.03) / 0.16 = 1.27 IN.$ $V100-360 = (1.27 \times 0.03) / 12 = 0.00318 AC. FT. = 138.5 CU. FT.$

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE EAST SIDE OF HARVARD DRIVE S.E. BETWEEN SILVER AVENUE S.E. AND LEAD AVENUE S.E., IN THE CITY OF

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (IDO ZONE ATLAS PAGE 'K-16-Z').

FLOWS FROM ADJACENT PROPERTIES, 4.) IS TO HAVE AN APARTMENT BUILDING AND ASSOCIATED IMPROVEMENTS CONSTRUCTED THEREON, 5.) IS REQUESTING FOR A "CASH IN

PER THE DEVELOPMENT PROCESS MANUAL FOR THE CITY OF ALBUQUERQUE, BERNALILLO

COUNTY, NEW MEXICO, HYDROLOGY, CHAPTER 6, ARTICLE 6-2(a.), EFFECTIVE DATE: JUNE 8,

PEAK DISCHARGE:

1.71 CFS/AC.

2.36 CFS/AC.

3.05 CFS/AC.

4.34 CFS/AC.

PROPOSED CONDITIONS:

AREA

0.00 AC.

0.00 AC.

0.02 AC.

0.14 AC.

LIEU" PAYMENT FOR REQUIRED RETENTION POND VOLUME.

'LAND TREATMENT METHOD" FOR CALCULATION OF "Qp"

THE SUBJECT SITE, 1.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN (DESIGNATED ZONE 'X', REFERENCE F.E.M.A. PANEL 35001C0353H, EFFECTIVE AUGUST 16, 2012), 2.) DOES

NOT CONTRIBUTE OFFSITE FLOWS TO ADJACENT PROPERTIES, 3). DOES NOT ACCEPT OFFSITE

EXISTING PEAK DISCHARGE: $Q-100 = (1.71 \times 0.00) + (2.36 \times 0.00) + (3.05 \times 0.13) + (4.34 \times 0.03) = 0.53 CFS$

PROPOSED EXCESS PRECIPITATION: WEIGHTED 'E' = $(0.62 \times 0.00) + (0.80 \times 0.00) + (1.03 \times 0.02) + (2.33 \times 0.14) / 0.16 = 2.17 \text{ IN.}$

PROPOSED PEAK DISCHARGE:

 $V100-360 = (2.17 \times 0.14) / 12 = 0.02532 \text{ AC. FT.} = 1,102.8 \text{ CU. FT.}$

 $Q-100 = (1.71 \times 0.00) + (2.36 \times 0.00) + (3.05 \times 0.02) + (4.34 \times 0.14) = 0.67 CFS$

INCREASE: V100-360 = 964.3 CU. FT.

* REQUEST FOR "CASH IN LIEU" FOR REQUIRED RETENTION POND VOLUME

PROJECT SITE = 7,100.0 SQ. FT. = 0.16 AC. LANDSCAPE = - 787.0 SQ. FT. = 0.02 AC. IMPERVIOUS = 6,313.0 SQ. FT. = 0.14 AC.

0.26" / 12 X 6,313.0 SQ. FT. = 126.3 CU. FT. 126.3 CU. FT. X \$ 8.00/CU. FT. = \$1,010.40 (CASH IN LIEU AMOUNT) *

- 1. UPPER LEVEL WALKWAYS
- 2. EXTEND MONO FOOTING EXTRA 12" THIS SIDE ONLY
- (3.) NEW ASPHALT PAVING
- 4. PROVIDE 4" PVC DRAINPIPE THRU REFUSE BIN WALL @ ELEVATION 68.35
- (5.) PER ARCHITECTS PLAN GALVINIZED SCUPPERS WITH COLLECTION BOX AND DOWNSPOUTS TO TIE INTO STORM DRAIN PIPE SYSTEM WITH OUTLET AS

A PROPOSED PLAN

FOR

HARVARD APARTMENTS

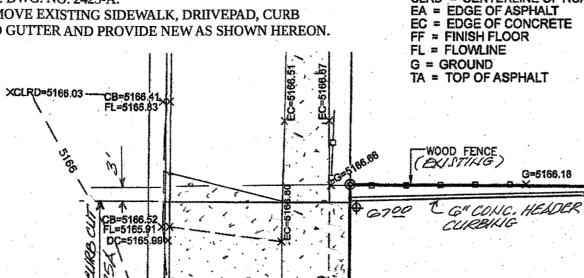
214 HARVARD DRIVE S.E. ALBUQUERQUE, NEW MEXICO

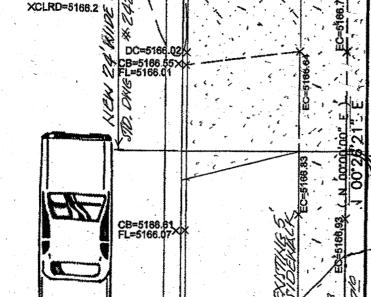


1.) PROVIDE NEW CURB AND GUTTER PER C.O.A.

STD. DWG. NO. 2415-A. 2.) PROVIDE NEW CURB CUT - DRIVEPAD PER C.O.A.

CLRD = CENTERLINE OF ROAD STD. DWG. NO. 2425-A. EA = EDGE OF ASPHALT EC = EDGE OF CONCRETE FF = FINISH FLOOR 3.) REMOVE EXISTING SIDEWALK, DRIIVEPAD, CURB AND GUTTER AND PROVIDE NEW AS SHOWN HEREON. FL = FLOWLINE





XCLRD=5166.36 CB=5166.52 FL=5166.13

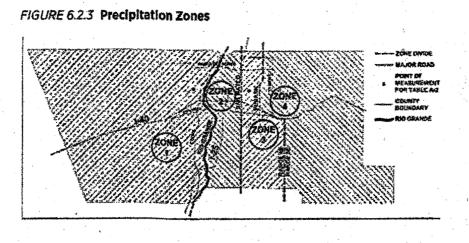
HARVARD

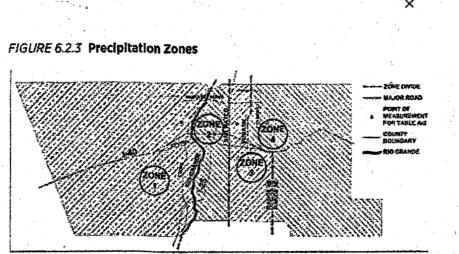
Range 4 East, South of Interstate 40

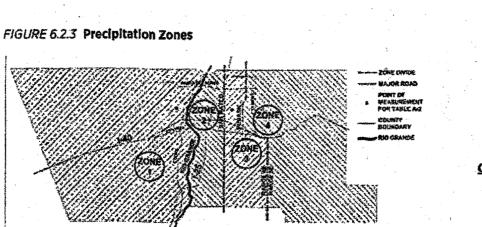
Not including the Cibola National Forest

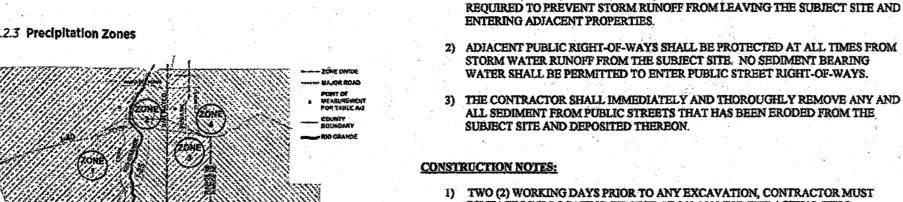
LAND USE, DEVELOPMENT AND REDEVELOPMENT CONSULTANT

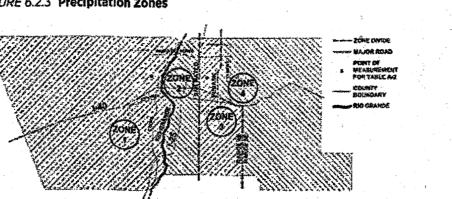
(505)610-0593

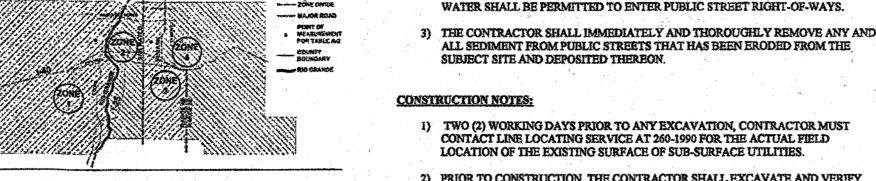












6750

1-5" STEP

N 89'33'39" W

EROSION CONTROL MEASURES:

 TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF

OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS

DURING CONSTRUCTION; HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE

(\$ 90.00.00" E \$ 89.33.39"

WOOD FENCE (EXISTING)

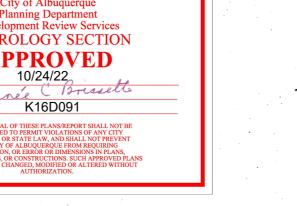
THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS: SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF 3) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL

APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH 4) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF

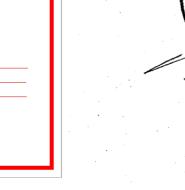
ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

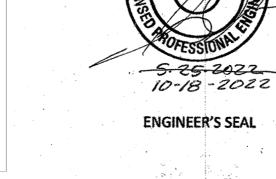


(21'LENGTH)
INLET INV.=G9.00/0UTLET INV.=G8.25
PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON.



ADJOINING BUILDING





142.00

GRADING AND DRAINAGE PLAN