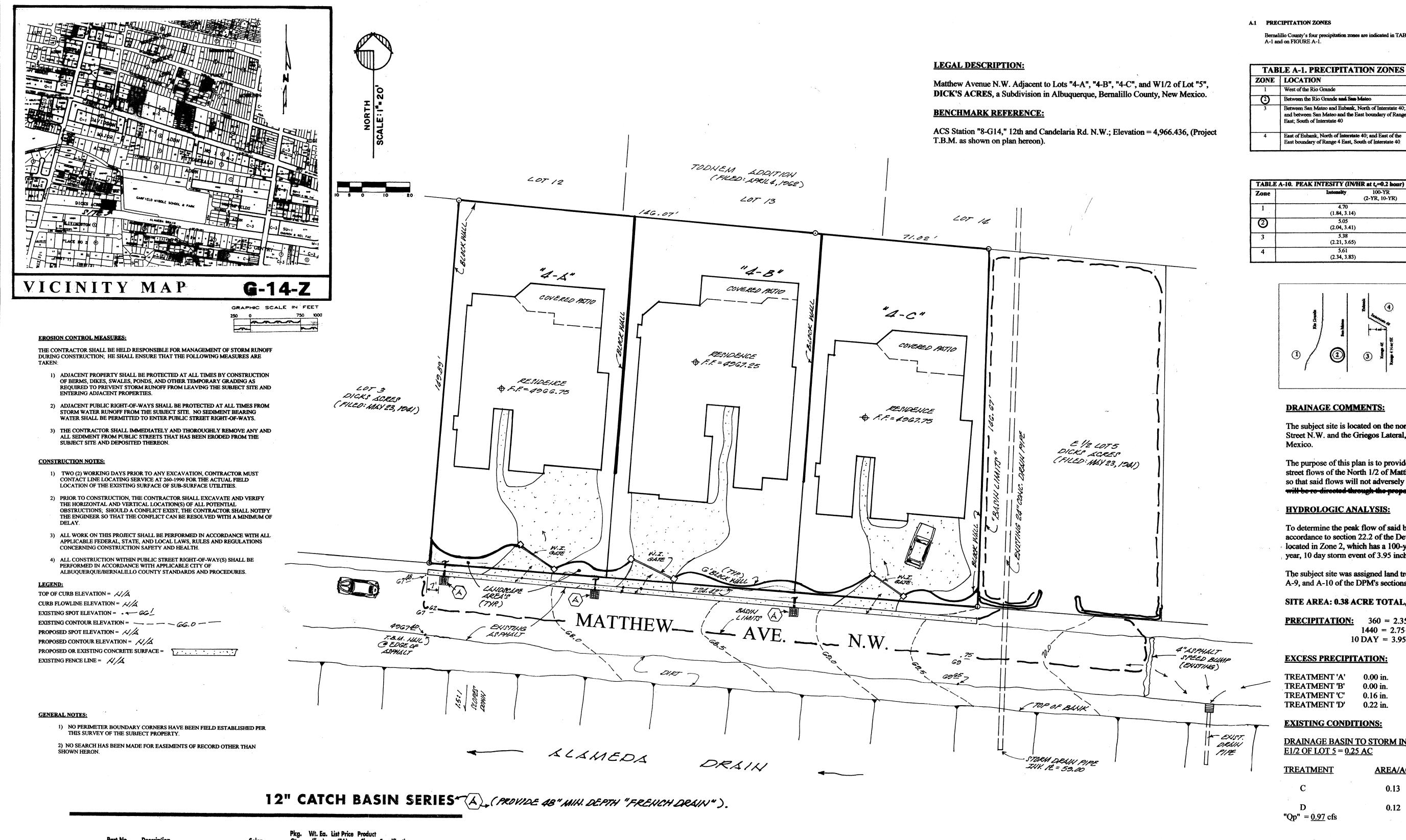


ENGINEER'S SEAL



A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

TAB	TABLE A-1. PRECIPITATION ZONES			
ZONE	LOCATION			
1	West of the Rio Grande			
2	Between the Rio Grande and San Mateo			
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East; South of Interstate 40			
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40			

A-1. PRECIPITATION ZONE
CATION
st of the Rio Grande
ween the Rio Grande and San Mateo
ween San Mateo and Eubank, North of Interstate I between San Mateo and the East boundary of Ra t; South of Interstate 40
t of Eubank, North of Interstate 40; and East of th t boundary of Range 4 East, South of Interstate 40

(2-YR, 10-YR)

A	slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading.
	groundcover and infiltration capacity. Croplands. Unlined Arroyos.
/ В	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
c	Soil uncompacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds, and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.
atments, measure	ntain a mix of land treatments. To determine proportional respective subareas. In lieu of specific measurement for all percentages in TABLE A-5 may be employed

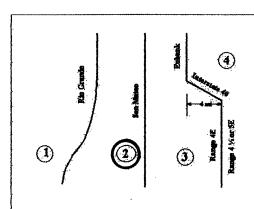
TABLE A-4. LAND TREATMENTS

Land Condition

Soil uncompacted by human activity with 0 to 10 percent

	TABI	E A-9. PE	AK DISCI	HARGE (cl	s/acre)	
· · ·	Zone	Treatment 100-YR (2-YR, 10-TR)				
		A	В	C	D	
	1	1.29 (0.00, 0.24)	2.03 (0.33, 0.76)	2.87 (0.47, 1.49)	4.37 (1.69, 2.89)	
	2	1.56 (0.00, 0.38)	2.28 (0.08, 0.95)	3.14 (0.60, 1.71)	4.70 1.86, 3.14)	
	3	1.87 (0.00, 0.58)	2.60 (0.21, 1.19)	3.45 (0.78, 2.009)	5.02 (2.04, 3.39)	
	4	2.20	2.92	3.73	5.25	

(0.05, 0.87) (0.38, 1.45) (1.00, 2.26) (2.17, 3.57)



(1.84, 3.14)

(2.04, 3.41)

(2.21, 3.65)

(2.34, 3.83)

DRAINAGE COMMENTS:

The subject site is located on the north side of Matthew Avenue N.W., between 12th Street N.W. and the Griegos Lateral, in the City of Albuquerque, Bernalillo County, New

The purpose of this plan is to provide a storm inlet that will accept the existing developed street flows of the North 1/2 of Matthew Avenue N.W. and the associated drainage basin so that said flows will not adversely affect downstream properties; these

HYDROLOGIC ANALYSIS:

To determine the peak flow of said basin a hydrologic analysis was performed in accordance to section 22.2 of the Development Process Manual (DPM). The property is located in Zone 2, which has a 100-year 24-hour storm event of 2.75 inches and a 100year, 10 day storm event of 3.95 inches.

The subject site was assigned land treatment values in accordance with Tables A-4, A-1, A-9, and A-10 of the DPM's sections 22.2

SITE AREA: 0.38 ACRE TOTAL, ZONE: TWO (2)

PRECIPITATION: 360 = 2.35 IN.1440 = 2.75 IN.10 DAY = 3.95 IN.

EXCESS PRECIPI	<u> FATION:</u>	PEAK DISCHARGE: (CFS/AC)		
TREATMENT 'A'	0.00 in.	1.56		
TREATMENT 'B'	0.00 in.	2.28		
TREATMENT 'C'	0.16 in.	3.14		
TREATMENT 'D'	0.22 in.	4.70		

EXISTING CONDITIONS:

DRAINAGE BASIN TO STORM INLET: $E1/2 ext{ OF LOT 5} = 0.25 ext{ AC}$

TREATMENT	AREA/ACRES		<u>FACTOR</u>		<u>CFS</u>
C	0.13	X	3.14	===	0.41
$ D "Qp" = \underline{0.97} \text{ cfs} $	0.12	X	4.70	=	0.56

N1/2 OF SUBJECT ROADWAY: 0.13 AC.

TREATMENT	AREA/ACRES		FACTOR		<u>CFS</u>	
C	0.03	X	3.14	-	0.09	
D	0.10	X	4.70	=	0.47	
"Qp" = $\underline{0.56}$ cfs	e.					

"Qp" = 0.97 + 0.56 = 1.53 cfs TOTAL

12" x 12" Catch Basin, 2 Openings 36.62 10ND NDS #1200, #1203, or 12" x 12" Catch Basin, 3 Openings Black 12" x 12" Catch Basin, 4 Openings Black 3.75 45.26 10ND #1204, 12" x 12" Tapered 1204 4 3.75 49.61 10ND Catch Basin.

Requires either #1206, #1242, #1243, #1245, #1266 or #1889 Universal Outlet for each opening. (Use bottom cutout for additional outlet. See page 24.)

DRAIN PIPE TO "FRENCH DRAIN(S)"

3/4" Grate Opening

ADA Compliant

ADA Compliant 12" x 12" Square Cast Iron Grate 15.00 79.79 10ND NDS #1213, 12" Square Heavy Duty Cast Iron Use with 12" x 12" Catch Basin Series. Grate. Open surface area 59.50 square inches. 77.95 GPM.

THE RESERVE TO SECOND STREET

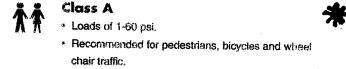
LOAD RECOMMENDATION GUIDE

Load Recommendation Guide

autos and light trucks at speeds less than 20 m.p.h.

Loads of 61-175 psi.

The second secon



Recommended for heavy-duty pneumatic tire forklifts and tractor trailers at speeds less than 20 m.p.h.,

H-20 rated.



Loads of 326-575 psi.

 Recommended for heavy-duty hard tire forklifts at speeds less than 20 m.p.h., H-20 rated.

UTILITY PRECAUTIONS

THE CONTRACTOR SHALL INFORM ITSELF OF THE

UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF

WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR

THE WORK IN ADVANCE OF AND DURING EXCAVATION

AN" AND ALL DAMAGE CAUSED BY ITS FAILURE TO

EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING

EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH

STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES.

RULES AND REGULATIONS, IF ANY, PERTAINING TO THE

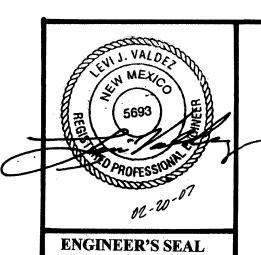
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LOCATE, IDENTIFY AND PRESERVE ANY AND ALL

LOCATION OF THESE LINES AND FACILITIES.

LOCATION OF ANY UTILITY LINE, PIPELINE, OR

Note: Some installations may require a concrete collar to meet load rating. Loads are based on encasing product in concrete. Product must be installed using NDS instructions.



A PROPOSED PLAN **FOR**

A SURFACE DRAINAGE INLET

AT MATTHEW AVENUE, N.W. ALBUQUERQUE, NEW MEXICO