

Weighted E Method

Basin	Area (sf)	Area (acres)	100-Year, 6-Hr.												10-day	
			Treatment A		Treatment B		Treatment C		Treatment D		Weighted (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)						
Existing	10963.00	0.252	0%	0	50%	0.126	50%	0.126	0%	0.000	0.830	0.017	0.82	0.017		
PROPOSED	10963.00	0.252	0%	0	30%	0.076	23%	0.056	47%	0.118	1.355	0.028	0.84	0.044		

COMPARISON

Equations:

Weighted E = $E_a A_a + E_b A_b + E_c A_c + E_d A_d$ / (Total Area)

Volume = Weighted D * Total Area

Flow = $Q_a A_a + Q_b A_b + Q_c A_c + Q_d A_d$

Where for 100-year, 6-hour storm (zone 1):

$E_a = 0.44$
 $E_b = 0.67$
 $E_c = 0.99$
 $E_d = 1.97$

First flush pond requirements (.34") x 5152.6

Ponding provided 146 cubic feet

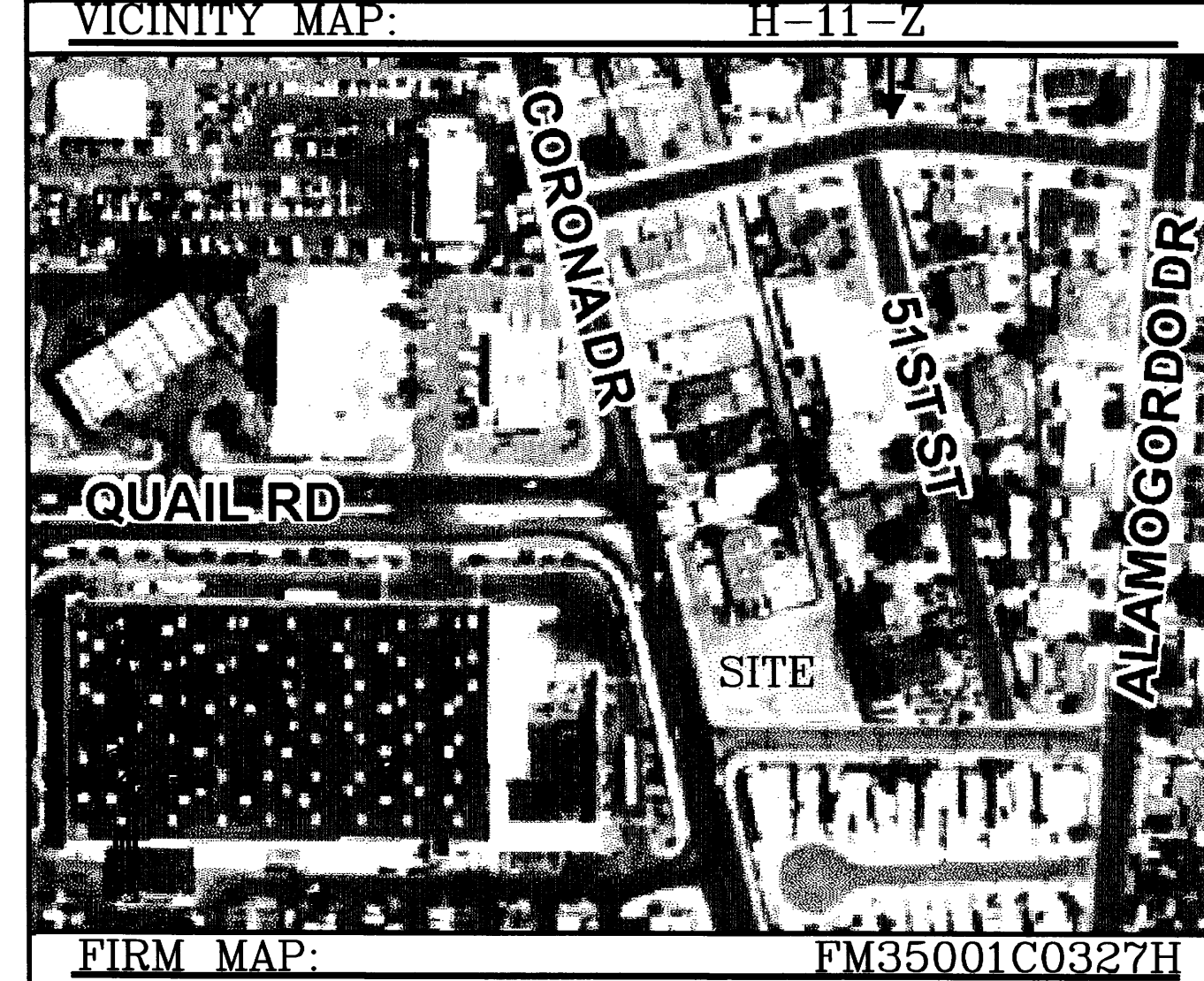
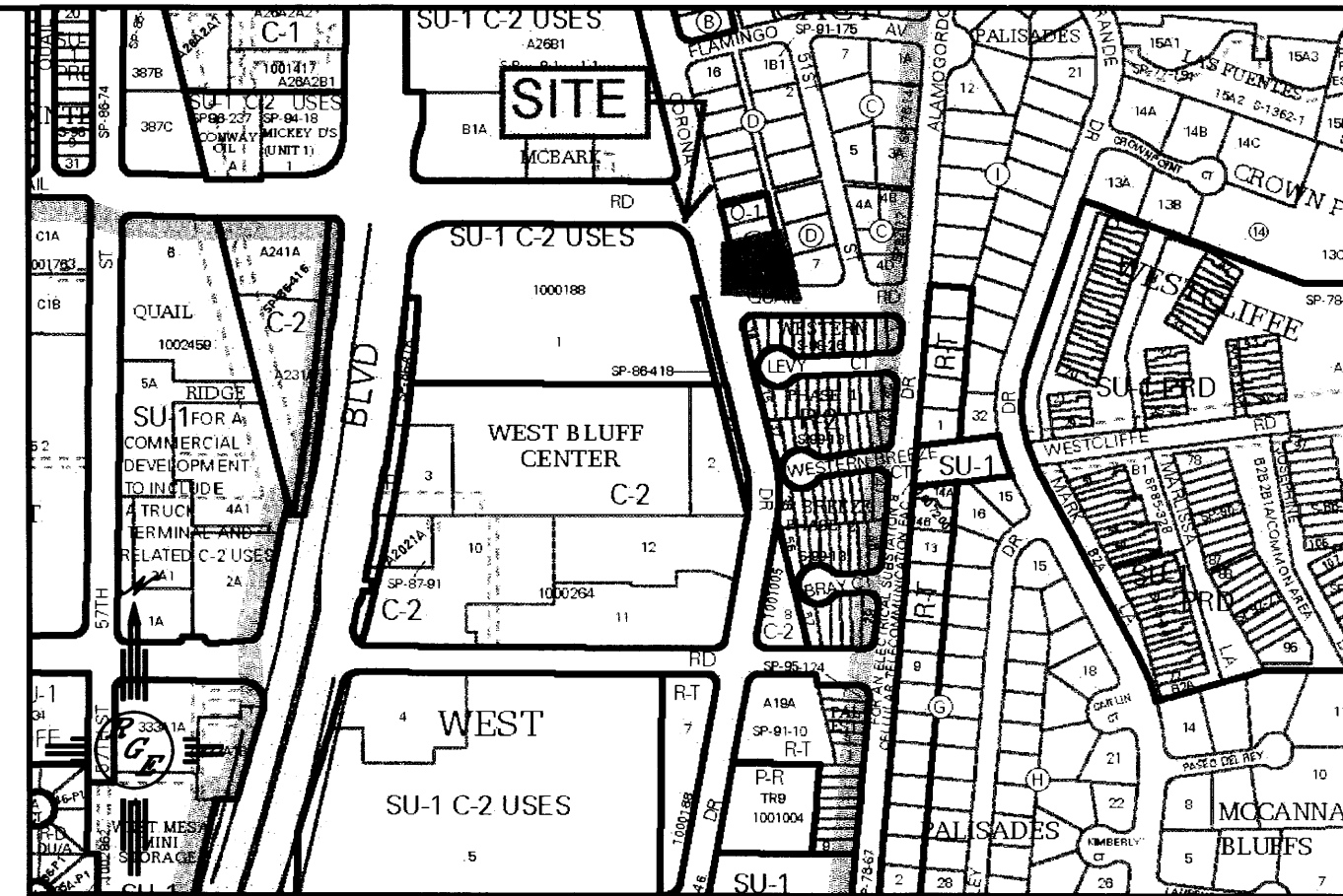
329 cubic feet

DRAINAGE NARRATIVE

THIS SITE IS LOCATED WITH A FULLY DEVELOPED AREA OF NORTH WEST ALBUQUERQUE. IT IS UNKNOWN IF THE SITE HAS BEEN DEVELOPED IN THE PAST DUE TO NATURE OF THE EXISTING SURROUNDING DEVELOPMENTS. THE LOCATION OF THE SITE ADJACENT TO THE WEST BLUFF OUTFALL AND DISCHARGE DIRECTLY TO CORONA, WE PROPOSE FREE DISCHARGE OF THIS INFILL SITE IS APPROPRIATE. THE SITE WILL RETAIN TWICE THE FIRST FLUSH VOLUME

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:

LOT 8, BLOCK D, CACY SUBDIVISION

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

LEGEND

---	5414	---	EXISTING CONTOUR
---	5415	---	EXISTING INDEX CONTOUR
---	5414	---	PROPOSED CONTOUR
---	5415	---	PROPOSED INDEX CONTOUR
---	---	---	SLOPE TIE
---	4048.25	---	EXISTING SPOT ELEVATION
---	4048.25	---	PROPOSED SPOT ELEVATION
---	---	---	BOUNDARY
---	---	---	EASEMENT
---	---	---	RIGHT-OF-WAY
---	---	---	PROPOSED EDGE OF CONCRETE
---	---	---	EXISTING EDGE OF ASPHALT
---	---	---	PROPOSED SCREEN WALL

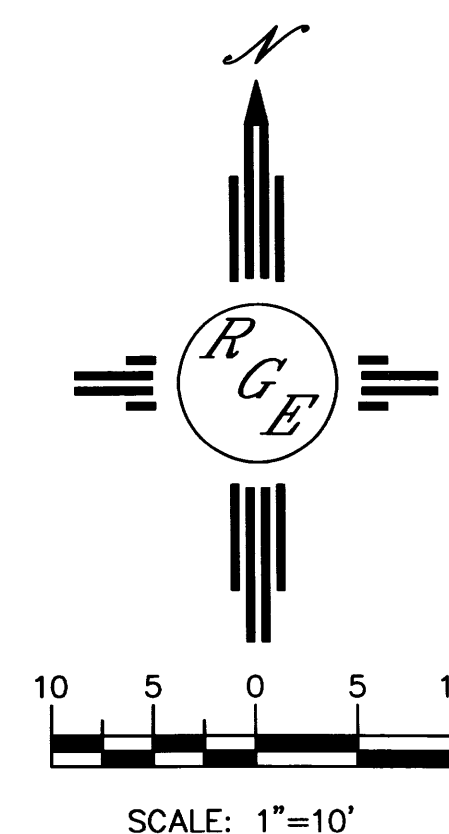
Point Table				
Point #	Elevation	Northing	Eastings	Description
1091	5103.00	1497360.12	1506287.69	VM
1098	5101.40	1497341.49	1506169.39	SAS MH
1104	5103.41	1497375.77	1506303.64	SRB

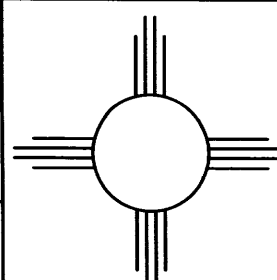
Mention that the roof drains are expected to send flows N, E or S not W.

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

BUILD FIRST FLUSH POND
TOP=5102.50
BOTTOM=5101.50
REQUIRED VOLUME=76 CU. FT.
PROPOSED VOLUME=160 CU. FT.



ENGINEER'S SEAL  6/6/16 DAVID SOULE P.E. #14522	2900 A&B CORONA DRIVE GRADING AND DRAINAGE PLAN	DRAWN BY WCVJ DATE 6-05-16 21625-LAYOUT-6-05-16
	 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0899	SHEET # JOB # 21625