Date Received 9/19/77

Applicant's Name: Burns & Peters - Architects

Address: 8100 Mountain Road, NE Suite 106

Albuquerque, NM 87110

Telephone No.: 265-3646

Signature of Applicant: Ronald L Peters

LOCATION OF PARCEL TO BE DEVELOPED

Lots 10 & 13 Block

Subdivision Ashcraft Center

Street Address Pennsylvania Circle

Current zoning classification O-1

SPECIFICATION FOR ROOF DRAIN

The roof drain shall be a model Z-114 as manufactured by Zurn Industries. The unit shall be purchased with a solid standpipe 8 inches in height. A standard trash screen (as shown on Model Z-115) shall be installed to protect the standpipe orifice by cutting a 2" diameter hole in the top to accomodate the standpipe. Two (2) - 0.25 inch diameter holes* shall be drilled 1 inch below the lip of the drain to allow drainage.

* 1 - 0.25 inch hole will allow a flow of approximately 20 gallons per hour. Each building has three drains, therefore, the Burns/Peters building will drain in approximately 35 hours and the Crown Life building will drain in approximately 27 hours.

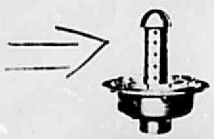
$$Q = 19.636\ Kd^2\sqrt{h}$$

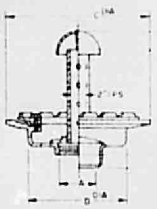
$$Q = 19.636\ (.61)\ (.25)^2\ \sqrt{.2} = 0.33\ \text{qpm}$$

ROOF DRAINS

ZURN

Z-114
ROOF TERRACE PLANTING AREA DRAIN
With Perforated Overflow





‡Caulk and No-Hub

Open Area Sq. In.	DIMENSIONS IN INCHES C	D	E	F†	J	U	A Pipe Size In.	App. Wt. Lbs.	D.C. Cast Iron W 2" Dia. D.C. Standpipe *Z	2" D Bron Stand ZE
—	15	11½	3¼	5¼	8	1⅛	2	40	$146.80	$159
—	15	11½	3¼	5¼	8	1⅛	3	42	146.80	159
—	15	11½	3¼	5¼	8	1⅛	4	44	146.80	159

†Add For Variations: Galv. (ZG) $46.80; Underdeck Clamp (C) $18.70; Sump Receiver (R) $20.80; Nickel Bronze Dome $15.60. Each add'l. inch 2" Dia. Standpipe over 8" high—D.C. $6.20, Br $7.80. 3" Dia. Standpipe 8" high—add D.C. $20.30, Bronze $4 Each add'l. inch 3" Dia. Standpipe over 8" high—D.C $1 Bronze $14.00.

Deduct For: Solid Standpipe $28.60

Inside Caulk Outlet Regular, No-Hub Optional (Female Thread $6.50 Additiona

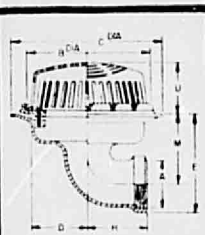
Z-115
CROWN LATERAL ROOF DRAIN
Shallow Roughing

Open Area Sq. in.	DIMENSIONS IN INCHES B	C	D	E	H	M	U	A Pipe Size In.	App. Wt. Lbs.	Dura-Coated Cast i with Poly-Dome *Z
112	12½	15	5½	5⅜	7½	4¼	4½	2	70	$89.20
112	12½	15	5½	5¾	7½	3¾	4½	3	70	89.20
112	12½	15	5½	5¾	7½	3¾	4½	4	70	89.20
112	12½	15	5½	7⅞	7½	4¼	4½	5	71	122.20
112	12½	15	5½	7⅞	7½	4¼	4½	6	72	122.20
112	12½	15	5½	11½	7¼	5⅝	4½	8	76	150.80

†Add For Variations: Galv. (ZG) $65.00; Underdeck Clamp (C) $18.70; Sump Receiver (R) $20.80; Extension (E) D.C. $54.60; Galv. $80 Vandal Proof Dome $9.40. Order Extension to specific height. details of (E), (R), (C), see Z-105-1ERC.

Female I.P. Outlet Regular

Z-115-1
CROWN LATERAL ROOF DRAIN
Deep Roughing



Open Area Sq. In.	DIMENSIONS IN INCHES B	C	D	E	H	M	U	A Pipe Size In.	App. Wt. Lbs.	Dura-Coated Cast with Poly-Dom *Z
112	12½	15	5½	7⅝	6	5¼	4½	2	70	$89.70
112	12½	15	5½	8½	6	6¼	4½	3	70	89.70
112	12½	15	5½	9⅝	6	6¾	4½	4	70	89.70
112	12½	15	5½	10⅝	6	7¼	4½	5	71	122.20
112	12½	15	5½	11⅝	6	7¾	4½	6	72	122.20

†Add For Variations: Galv. (ZG) $65.00; Underdeck Clamp (C) $18.70; Sump Receiver (R) $20.80; Extension (E) D.C. $54.60, Galv. $80 Vandal Proof Dome $9.40. Order Extension to specific height. details of (E), (R), (C), see Z-100ERC.

Female I.P. Outlet Regular

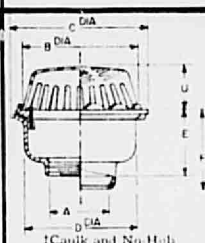
Z-116
8", 11", 12" DIA. ROOF DRAIN
For Pre-Cast Plank Decks

Open Area Sq. In.	DIMENSIONS IN INCHES B	C	E	F	U	W	X	A Pipe Size In.	App. Wt. Lbs.	D. C. Cast Iron v Aluminum Dome *Z
42	8¾	10	2⅞	7¾	3½	12	6⅛	2	37	$59.90
42	8¾	10	2⅞	7¾	3½	12	6⅛	3	38	71.50
84	10⅞	12⅝	3½	10	3⅝	15	8⅛	4	48	93.60
84	10⅞	12⅝	3½	10	3⅝	15	8⅛	5	49	110.50
112	12½	16¼	4	13⅝	4½	18½	12¼	6	66	131.30
112	12½	16¼	4	13⅝	4½	18½	12¼	8	68	185.90

†Add For Variations: Galv. (ZG) $50.70; Vandal Proof Dome $9.40.

Spigot Outlet Regular

Z-121
12" DIAMETER ROOF DRAIN
Low Silhouette Dome



‡Caulk and No-Hub

Open Area Sq. In.	DIMENSIONS IN INCHES B	C	D	E	F†	U	A Pipe Size In.	App Wt Lbs.	D. C. Cast Iron wit Aluminum Dome *Z
84	10	12	9½	3¼	5¼	3⅞	2	24	$52.00
84	10	12	9½	3¼	5¼	3⅞	3	24	52.00
84	10	12	9½	3¼	5¼	3⅞	4	24	52.00
84	10	12	9½	3¾	5¼	3⅞	5	26	52.00
84	10	12	9½	3¾	5¼	3⅞	6	26	52.00

†Add For Variations: Galv. (ZG) $28.60; Underdeck Clamp (C) $12.50; Sump Receiver (R) $20.80; Extension (E) D.C. $28.10, Galv. $54.1 Order Extension to specific height. For details of (E), (R), (C see Z-121ERC.

Inside Caulk Outlet Regular, No Hub Optional (Female Thread $6.50 Additional)

*Regularly furnished unless otherwise specified.
†When ordering products on this page, be sure to specify size and type connection. (Also, specify finish of body and top if other than regularly furn

Goldberg · Mann & Associates
Engineers · Planners
2329 Wisconsin N.E., Suite E Albuquerque, New Mexico 87110 (505) 292-1092

Sept. 6, 1977

Mr. Ronald Peters
Burns & Peters Architects-Planners
8100 Mountain Rd. Pl. N.E.
Albuquerque, New Mexico 87110

Re: Drainage Plan - Lots 10 & 13 Ashcraft Center

Dear Ron,

After reviewing and analyzing the available data in the vicinity of Pennsylvania and Mountain Rd. N.E., I have developed the following drainage and grading plan for Lots 10 & 13 of Ashcraft Center.

Areas - gross
Lot 10 15,682 s.f.
Lot 13 12,120 s.f.

Areas - roof
Lot 10 5,400 s.f.
Lot 13 4,140 s.f.

Area - net
Lot 10 10,282 s.f.
Lot 13 7,980 s.f.

Since you proposed to pond water on the roofs, the net area will be used in calculating the required ponding. Roof drains shall be constructed in such a manner that all flows from the roof shall discharge into a ponding area over the 24 hour period following the storm.

Volume of storage
Lot 10 = 10,282 x 0.1 = 1,028 c.f.
Lot 13 = 7,980 x 0.1 = 798 c.f.

The ponding areas as designed for Lot 10 contain approximately 955 cubic feet of storage and for Lot 13 approximately 751 cubic feet. The available ponding is approximately 47% of that generated by a 100 year frequency 6 hour storm.

In order to achieve 50% storage, you would have to build retaining walls and deepen the ponds. However, I feel that we have for all practical purposes achieved the goals of the City. Also, there are no stormwater flows from other parcels entering your parcels. Therefore, I recommend that you forward to the City my letter, grading plan and roof drain detail with your plans and request approval.

Please disregard the previous drainage report for the parcels.

Thank you.

Yours sincerely,

Thomas T. Mann Jr.
President

TTM:eg
Attachments
Grading Plan
Roof Drain Detail