DRAINAGE INFORMATION SHEET PROJECT TITLE: Keleher Exerchive Center ZONE ATLAS/DRAINAGE FILE #_ J-14/D50 LEGAL DESCRIPTION: Lots 1-16 Black 12 of Francisco Armine Y Otera Subdivision CITY ADDRESS: NE Corner Second Street and CONTACT: Dave M ENGINEERING FIRM: David M. Y. Millikan. PHONE: 444 ADDRESS: POBOX 681954 CONTACT: Da OWNER: Dale Beggs Development ADDRESS: 1465 Kelly Johnson Blud, Colo Spaines PHONE: 303-6 CONTACT: Hy Apolebaca ARCHITECT: R+A Architects PHONE: 713 - 481-7315 ADDRESS: 16101 Fondren, Houston TX 77096 CONTACT: Frank Wilson SURVEYOR: Southwest Surveying 333 Lomas NE, Albug, NM 87107 PHONE: 247-4444 ADDRESS: CONTACT: Mel Meyer CONTRACTOR: PHONE: 113-869-850/ ADDRESS: 3605 Katy Fruy, Houston TX 77007 PRE-DESIGN MEETING: V-87-110 DRB NO. DPB-87-624 YES EPC NO. NO PROJECT NO. 1-14/D56 COPY OF CONFERENCE RECAP SHEET PROVIDED CHECK TYPE OF APPROVAL SOUGHT: TYPE OF SUBMITTAL: SECTOR PLAN APPROVAL DRAINAGE REPORTIYDROLOGY SECTION SKETCH PLAT APPROVAL DRAINAGE PLAN PRELIMINARY PLAT APPROVAL CONCEPTUAL GRADING & DRAIN PLAN K SITE DEVELOPMENT PLAN APPROVAL **GRADING PLAN** FINAL PLAT APPROVAL **EROSION CONTROL PLAN** BUILDING PERMIT APPROVAL ENGINEER'S CERTIFICATION FOUNDATION PERMIT APPROVAL Note: Minor Revisions Only CERTIFICATE OF OCCUPANCY APPROVAL ROUGH GRADING PERMIT APPROVAL 12-24-8 GRADING/PAVING PERMIT APPROVAL DATE SUBMITTED:

OTHER

(SPECIFY)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

KEN SCHULTZ MAYOR

CLARENCE V. LITHGOW

CHIEF ADMINISTRATIVE OFFICER DAN WEAKS
DEPUTY CAO
PUBLIC SERVICES

FRED E. MONDRAGON

DEPUTY CAO DEVELOPMENT & ENTERPRISE SERVICES RAY R. BACA

DEPUTY CAO
PUBLIC SAFETY

June 29, 1989

David M.Y. Millikan, P.E. Post Office Box 681954 Houston, Texas 77068

RE: DRIVE-UP CANOPY IMPROVEMENTS FOR BANQUEST BUILDING

(J-14/D56) RECEIVED JUNE 26, 1989

Dear Mr. Millikan:

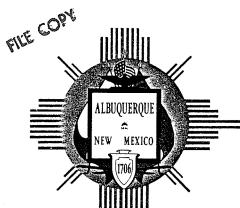
Based on the information provided on your resubmittal of June 26, 1989, revisions as indicated for canopy construction are acceptable.

If you have any further questions, call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E. Engineering Assistant

BJM/bsj (WP+528)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz Mayor

UTILITY DEVELOPMENT DIVISION **HYDROLOGY SECTION** (505) 768-2650

January 18, 1988

David M.Y. Millikan, P.E. Post Office Box 681954 Houston, Texas 77068

> RE: REVISED GRADING & DRAINAGE PLAN OF BANQUEST BUILDING (KELEHER EXECUTIVE CENTER) RECEIVED DECEMBER 27, 1987

FOR BUILDING PERMIT APPROVAL (J-14/D56)

Dear Mr. Millikan:

The above referenced submittal dated December 24, 1987, is approved for Building Permit.

Include this approved plan with the construction sets routed for sign-offs. If the Building Permit has already been issued, then it is your responsibility to see that the contractor has copies of this approved plan for construction.

If you have any further questions, call me at 768-2650.

Cordially,

Roger A. Green, P.E.

C.E./Hydrology Section

RAG/bsj

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

Telephone (505) 768-2500

DRAINAGE MANAGEMENT PLAN Keleher Executive Centre 2nd & Lomas NE

Formerly Lots 12, 13, 14, 15, 16, & North 10' of Lot 17; Block 12, Francisco Armijo Y Otero Addn. Filed May 4, 1892

1. Purpose and Scope

This report is in accordance with the Albuquerque Development Process Manual requirements for a drainage report and plan for all new development.

2. Site Location

This tract of land is located in the downtown area of Albuquerque at the north east corner of 2nd Street and Lomas Boulevard. The site is zoned M-1. This tract is currently developed and consists of single story buildings and impervious parking areas. All surrounding areas are developed. The alleyway to the rear (side) of this property is not paved.

3. Existing Drainage Conditions

The existing site drains to the south and west at an average rate of 0.86% slope. Site soils types are of the Glendale Loam Series. These soils are predominately clayey loams of low permeability. These soils do not affect site drainage conditions due to the lack of pervious areas:

The Keleher tract is 19,170 square feet in area (0.4401 acres) and all drainage flows from this site travel from the general NE to the south and to the west and end in a pair of inlets (one single and one double) at each end of the curb returns for Lomas and 2nd Street at the northwest corner of the intersection.

Some off-site flows cross this tract from the residential lot to the immediate north. Flows from area Al (see plan sheet Gl) flow south and east through the easternmost line of the Keleher tract. Flows from Area A2 (see plan sheet Gl) flow across the north east corner of the Keleher tract to the alley at the rear (east) of the tract. Both areas are extremely small in size. Area Al consists of 525 square feet of area and

area A2 consists of 920 square feet of area. The flows generated from these areas are very low, and positive drainage measures are adequate to handle these areas.

4. Hydrologic Considerations

The proposed Keleher Building will not exceed the existing drainage conditions, since the existing site is fully covered by buildings and parking lots. This tract is an infill tract within the fully developed area of downtown Albuquerque.

This immediate area of Albuquerque's Downtown (as well as many other areas surrounding the Downtown Area) is subject to flooding during high intensity storms (10-year recurrence and above), due entirely to the inadequacy of the adjacent storm sewer facilities. This potential flooding of this site is not due in any way to the development of this site, but to evolution in the ways Albuquerque has tried to deal with this problem.

Therefore, the only considerations of redevelopment consist of (1) the proper handling of drainage and (2) protection from potential flooding.

We will first deal with Item 2, the potential flooding in and around this site. The Federal Emergency Management Agency's "FIRM Flood Insurance Rate Map" of Albuquerque (see Exhibit II) shows the street network surrounding this site to be subject to "Zone AØ-Ift Depth", which means the site must be flood proofed to above this 1 foot depth. The entire building site is designed to meet this criteria, in that (1) the lower level parking area down ramp has an elevation of 2 feet above the street gutter grade at this point (2) the entire lower level is surrounded by reinforced concrete walls with exterior water proofing (3) no occupied public space is in the lower area except for elevators and stairwells. The remainder of areas are storage.

Second, we will deal with the proper handling of drainage. Areas of this tract are exposed to storm drainage at three separate levels, due to the exposed nature of the two-level parking structure.

The lower level parking ramp is exposed to storm drainage since it extends beyond the roof area above. This area is shown as Area B on sheet Gl of the Grading

and Drainage Plan, and consists of 1220 square feet of drainage area. This area drains to a trench drain which is set at about elevation 50.01 (or approximately 5 feet below street level). Thence from this trench drain the water drains to a wet well area and two 1 1/2 HP sump pumps (rated at 100 gpm @ 25' TDH) each which discharges this water into the roof drainage collector pipes, and thence exits the building into the double inlet at the SE corner of the curb return at the SW corner of the site. No subsurface waters are designed to be part of this system, and site foundation & geological borings show the underground water level to be 33 feet below the surface. (See borings supplied with building plans for permit.)

The upper level parking area is also exposed to storm drainage since it also extends beyond the roof area above and consists of 4235 square feet of drainage area. This area (see sheet G2 of the Grading and Drainage Plan) drains down the up ramp and along the gutter to the aforementioned double inlet. This upper level parking area varies from elevation 60.06 to 55.00± before it exits the building (or from 5 foot above ground level down to approximately 2 foot above the adjacent street level). Also draining to the same street area is the building front patio area (Area E) which consists of 1290 square feet of Impervious Areas and 725 square feet of Pervious Areas that do not drain directly (Planter Areas).

The third level at which storm drainage is collected on this site, is the roof area atop the sixth floor. This area consists of 11,700 square feet of area. This roof area drains by means of four roof area drains, and is drained from the building roof to the roof drainage collector pipes, and thence exits the building into the double inlet at the aforementioned SE corner of the 2nd

and Lomas curb returns.

D.A. # D

During all stages, Architect and Contractor shall act to control erosion at all times in accordance with the proceedures of Section 22.5 of the City of Albuquerque DPM.

During the Foundation Excavation Stage, the contractor shall provide staked straw bales around the perimeter of the excavation to prevent silt and other eroded soils from passing into the storm drainage system. All earthmoving activities shall be limited to this area.

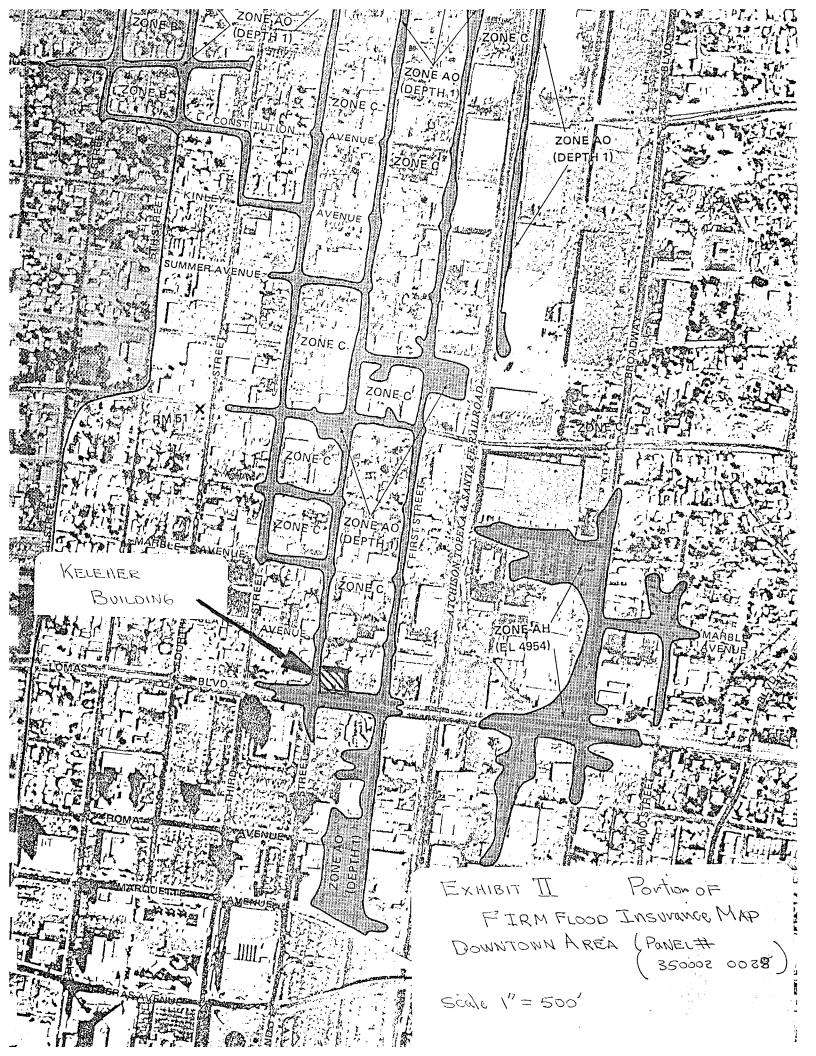
During later stages, the contractor shall initiate his own plan which meets the guidelines of EPA publication EPA-R2-72-OIS and the satisfaction of the City Hydrology Department.

6. Conclusions

The results of computations show that the developed versus existing peak runoff for the 100-year recurrence, 6-hour duration rainfall for this site is essentially the same. (Q 100 developed is 1.98 cfs.) Therefore we conclude that free discharge of site drainage is warranted.

The site has been suitably protected from flooding shown on the FIRM Flood Map.

The physical seperation of this site from the adjacent alleyway (by reinforced concrete wall), and the existing positive drainage of this alleyway, both assure that improvements to the alleyway are not required at this time. However, alley grades have been provided for future construction.



~	

SCANLON ASSOCIATES

CONSULTING ENGINEERS

8008 Pennsylvania Circle NE Albuquerque, New Mexico 87110-7897 (505) 265-6941

Project Kelehen Bui	ding
Location 3nd & Longs	(Mossusper)
Job No. 85 \3\	Date 0ch 9,85
By DDB	Sheet 4 of 5

Huduspiciones Moderation Compositions |
Veing City OF Allouquerque DPM Cutaria
Sedien 33.3

I Hydrologic

A. Existing Conditions

Lot Acreage = 19,170 80 =+ (0.4401 Acres)

-Soil 13 Glendole Loon - (0 to 10/6 Slope)

Hydrologic Soil Group B

This Site Contains < 12% Slipes and almost 100% Impervious Areas

CN (From Plate 22.2 C-1)

= 98

B C-fodors

Modifications to Mail

Calculate of Impervious

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Evaluated Sec. 36, 8 april 2000 S. 55 sold 9 cmp

int in sev not retood "5" out Ave 10.00 = out of the series of the serie



8008 Pennsylvania Circle NE Albuquerque, New Mexico 87110-7897 (505) 265-6941

Project Kololos	Sulfine
Location 2nd & Limos	(Sugasugual)
Job No. 85/31	Date 0019,85
P. DOS	Sheet 7 of 5

nactactions 70 smit 2

As Den DPM Proceeding.

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 $\frac{10.77}{5=(\Delta H)0.385} = 0.0078 \frac{(726)0.77}{(0.0327)0.365}$

= 8.01 minutes

bit we itilize a minimum of To= 10 minutes (L tule 5.55 w2)

D Interesty

(1) 10 Year Frequency 100 Year Frequency

From 22.2 Plate D-1 & D-2 vansal Volina (6hr banfal)

I 100= 2.22 Inches aboni 2A.1 = (55.5) 7 28.0 = 0. I

for to = 10 minutes (from plate 22.2 D-2

Un= 1.46 (2.16) = 3.15 W/hour

van/mi 08.4 = (31.5) 55.5 = 1.5

8008 Pennsylvania Circle NE

Project Kelehen Bul	dive
Location 2nd & Lowis	(Albronagus)
Job No. 85131	Date
By <u>DDB</u>	Sheet 3 of 5

Albuquerque, New Mexico 87110-7897 (505) 265-6941	ву <u>ООВ</u>	Sheet <u>3</u>	_ of _5
	ca. Onsite		
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Drains to Pump/Inless 3 Upper level Porking And Sidewalk Avers Dvains to Street			0.42045
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Volumes OF RUNSY LIDE	cuso		
10 ROOF AIRO -D" VIOO 12	55.5 x AC.C	= [2035 Clor	tof :
2. Lower Level Posting CTOSimp Purp -*	Avea "B"	* * * 0 0 0 0	
1000mb 100b the	50X0551	AX 2006 _ 101	~ CNDIC

Born Compostations Co Vigo

3. Upper Level Parking "C"E" = 6, 250 X 0.94 X 3.33 = [1087]



8008 Pennsylvania Circle NE Albuquerque, New Mexico 87110-7897 (505) 265-6941

Project Kelshen B	ulding
Location Znd & Laives	(Albugueaus)
Job No. 85131	Date Revised 2/17/86
By <u>008</u>	Sheet <u>A</u> of <u>5</u>

Offsite Flow Analysis

A. Flowto West of Time (Aven A.)

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To=10 mintes & 100= 4.80 in/n/

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(viscos) reign 55.5 = //2/2019 (viscos) reign 64.1 =

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1272 20 A O.O (08. A) T.O = 001 D

20 Rund Volume
(100 cr) + 100 = 525 x 0.70 x 2.22 = 68 word

12 + 4 feet 10 4r V 10= 4700 × 0.652 = 44 Cubic Pert

This Ries. Will produce in a 100 year Storm

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with a total vinis Volumen to Es cidicted

in a 10-2 wir storm the Values are about 12 april

Four Etas sous 4 & ouis

We believe this to be so minimal as to

ON EUNT . Service surface since our say

Noise princes a 181 mge Valley Gotter

to transport the water to the front

& the building to assure dramage



SCANLON (ASSOCIATES

CONSULTING ENGINEERS

8008 Pennsylvania Circle NE Albuquerque, New Mexico 87110-7897 (505) 265-6941

Project Kelelia Bu	18m
Location Znd & Long	(sugrecelles)
Job No. <u>85131</u>	Date ROUSED 3/17/86
Ву 000	Sheet_ <u>5</u> _ of <u>5</u>

(Sound has) sie Continued)

B. Flow to Eo. 3. [Tood (Alloy) - Area A'z

Area A z = 9 30 8a CA = 0.021 hais

To=10 mind & Si 10= 3.15 m/nn

To=10 mind & Si 10= 4.80 m/hin

05.0= 10502-0 (W 01) only 24.1 = Holmon (NY 001) only 55.5 =

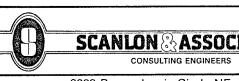
1. Peak-flows Q = CUA $Q_{10} = 0.7(3.15) 0.081 = 0.0463 CSS$ $Q_{100} = 0.7(4.80) 0.081 = 0.0706 CSS$

2. Runos Valuminos = 050 (07.0)x2.22 = [119 abicfal] 100 en tio = tio (520.0)x2.22 = [119 abicfal]

require only positive measures to measure only positive measures to maine abequete their order

APPENDIX E

Submersible Sump Pump Details



8008 Pennsylvania Circle NE Albuquerque, New Mexico 87110-7897 (505) 265-6941

Project Keleher Bi	uldin,
Location 2nd & Long	(overskeve/1/1)
Job No. 85131	Date (7.1086)
BV 003	Sheet \(\) of \(\lambda \)

Hedroise Conference Subsequents Submersión Pompe Sor Indergrand Porting Niew - Keleher Bulding

1/20/20/20 = 1011 Com Appendix A, Sheet 35/5

1/20/20/20 = 0.08 cfs

(270 = 0.12 cfs)

(270 = 0.12 cfs)

13 SIS = 11/MS2.2 x 86.0 x +3 05 05 21 15 molfwI

Discharge Thrown Submersible Sump Pinip

Two Pumps Cond for Bodhip Werl Model

2- 160114 - 11/2 or Equivalent

Discharge 100 apm 2 25 ft & TOH

Max in Tion = 0.12 cfs x 448.8 gpm/cfs

= 53.9 golins jee minite (gpm)

So the pumps code hours double the corporations copacity required by the comprations sold = 200/53.9

F.S. = 3.71 #86

D. FD-2

Round cast iron, medium duty, shallow body drain with flashing collar, tractor type non-tilt slotted grate, bottom waste outlet, sediment bucket, flashing clamp.

2.06 SUMP PUMP

- A. Round precast reinforced concrete basin with solid bottom, inlet openings as required, steel cover plate with inspection, vent pipe, discharge pipe, and control wire openings. Pumps shall be single or duplex, as noted, [above-pit] [submersible]. Pump[s] shall have wall mounted control panel. Controls shall include adjustable type mercury float switches mounted on wire cable support shaft and anchored to removable control wire service cover plate, high water alarm and buzzer in control panel at pump, remote alarm light and buzzer.
- B. Mercury switches shall:
 - 1. Start one pump on liquid rise.
 - 2. Indicate Pump "On".
 - 3. [Alternate pumps.] (Duplex)
 - 4. Operate both pumps on demand (Duplex).
 - 5. Indicate Pump "Off".
 - Operate alarm on continuous water rise above pump capacity.
- C. Submersible pumps shall have 5 year warranty.

2.08 SAND TRAP

A. Round precast reinforced concrete basin with solid bottom, 24" diameter access opening in top, inlet and outlet holes in basin walls, outlet 2" lower than inlet, 36" diameter x 60" high inside. Provide precast manhole rings from basin access opening to near grade with 24" diameter heavy duty cast iron manhole cover and ring to grade.

2.09 SANITARY SEWER MANHOLE

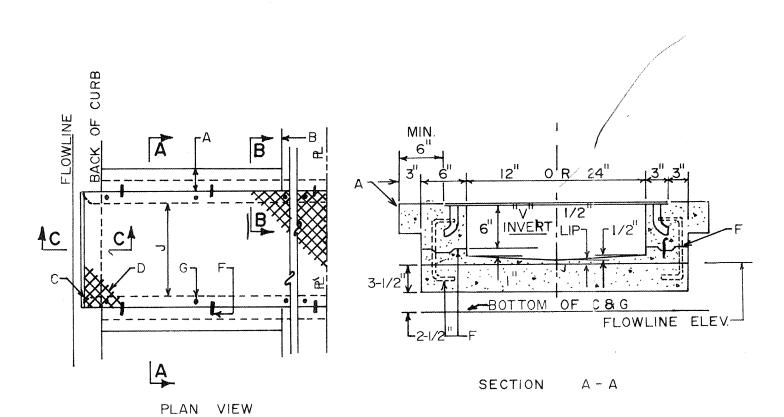
- A. Manhole: Pre-cast concrete sections with heavy duty cast iron traffic cover and rim.
- B. Manhole Base: Heavy density concrete poured at least 48 hours prior to setting the precast sections.
- C. Form flow channels to provide smooth flow and maintain sewer grade in cement mortar on base, troweled smooth.
- D. Set bottom manhole section in full mortar base (21" thick) while base is still moist. Join succeeding sections in similar manner, fill holes and imperfections with cement mortar.

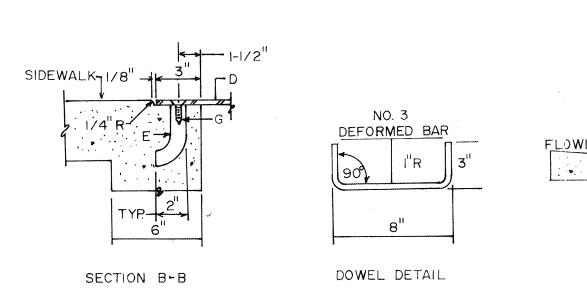
PROJECT SITE

MAP AMENDED THROUGH

J - 14 -Z

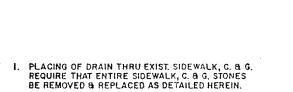
VICINITY MAP





SIDEWALK CULVERT DETAIL NO SCALE

SECTION C-C



2. BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER. 3. THE INVERT SHALL BE TROWELED A RETROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX. DENSITY & SMOOTHNESS. "V" INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, WARPED FROM THIS POINT TO OUTLET, AT OUTLET IT SHALL PAR ALLEL FLOWLINE UNLESS OTHERWISE SHOWN.

4. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE, COLOR, FINISH & SCORING OF ADJACENT CURB & SIDEWALK. 5. SIDEWALK REPLACED DURING CONSTRUCTION TO BE POURED MONOLITHICALLY WITH CULVERT WALLS.

6. DRILL & TAP ROD ANCHORS FOR F. H. MACH. SCREW, SPACE AT 24" O.C. MAX., A MIN. OF 2 P/SIDE P/PLATE. PLACE ONE WITHIN 6" OF EA. END. ANCHORS SHALL BE ATTACHED TO PLATE & PLATE SECURED IN PLACE PRIOR TO POURING OF WALLS.

7. LENGTH OF EA. PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. B SHALL BE STRESS RELIEVED AFTER FABRICATION. AFTER CLEANING SURFACE OF RUST, SCALE ETC, PLATE B FRAMING MEMBERS WILL BE PAINTED ONE SHOP COAT RED OXIDE B TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).

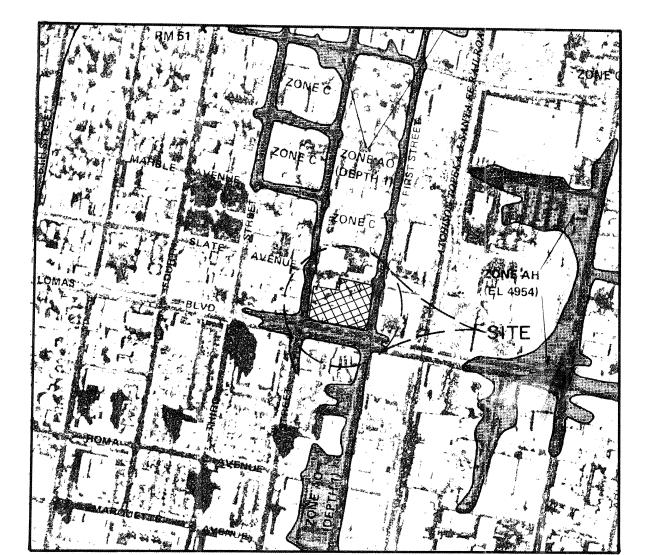
8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

CONSTRUCTION NOTES: A. JOIN TO NEAREST SCORE LINE OR WEAKENED

PLANE JOINT, INSTALL $\frac{1}{2}$ EXPANSION JOINT. B. SIDEWALK OR SETBACK (VARIABLE). C. 3" RADIUS (TYPICAL), D. & CHECKERED STEEL PLATE. E. ROD ANCHOR I" X 5" STAINLESS STEEL.

F. CONSTR. JT. & DOWEL (C.-T.), IF DOWELS ARE USED SPACE AT 24" O.C. MAX., 12" MIN. FROM FACE OF CONC., DOWELS MAY BE INCLINED IF NECESSARY. G. 3 XI" FH. C'SUNK STAINLESS STEEL MACH, SCREW.

H. SLOPE FT. MIN. J. DRAIN WIDTH, 12" MIN. 24" MAX.



FLOOD PLAIN MAP PANEL 28

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be

2. All work detailed on these plans to be parconned, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specifications for Public Works Construction,

horizontal and vertical locations of all-constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can

5. Backfill compaction shall be according to ARTERIAL street

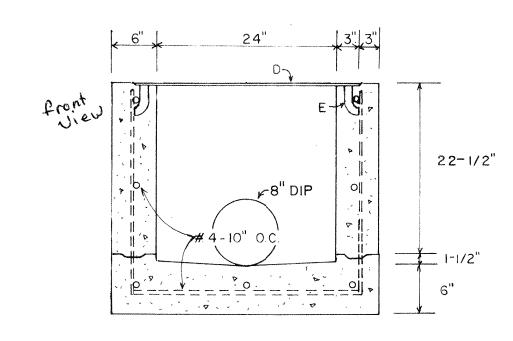
6. Maintenance of these facilities shall be the responsibility of the Owner

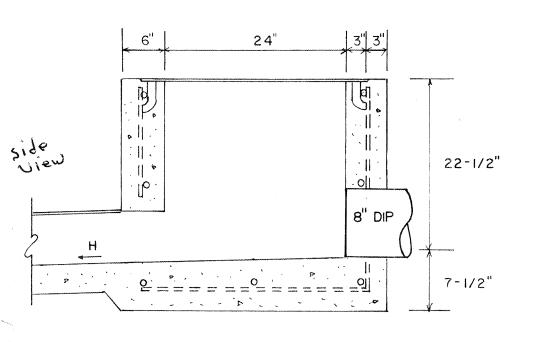
DATE ZONING ACTION:

A.C.E./FIELD

V - 87 - 110 DRB-87-624

LEGAL DESCRIPTION: LOTS 1-7, THE NORTH TEN FEET OF LOT 8, LOTS 10 - 16, THE NORTH TEN FEET OF LOT 17 AND THE 16 FOOT WIDE ALLEY IN BLOCK 12 OF THE FRANCISCO ARMIJO Y OTERO ADDITION.





JUNCTION BOX DETAIL

- 1. Two working day prior to any excavation, contractor must cotact line locating service at 505-765-1234 for location of existing utilities.
- 2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obsructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount o delay.

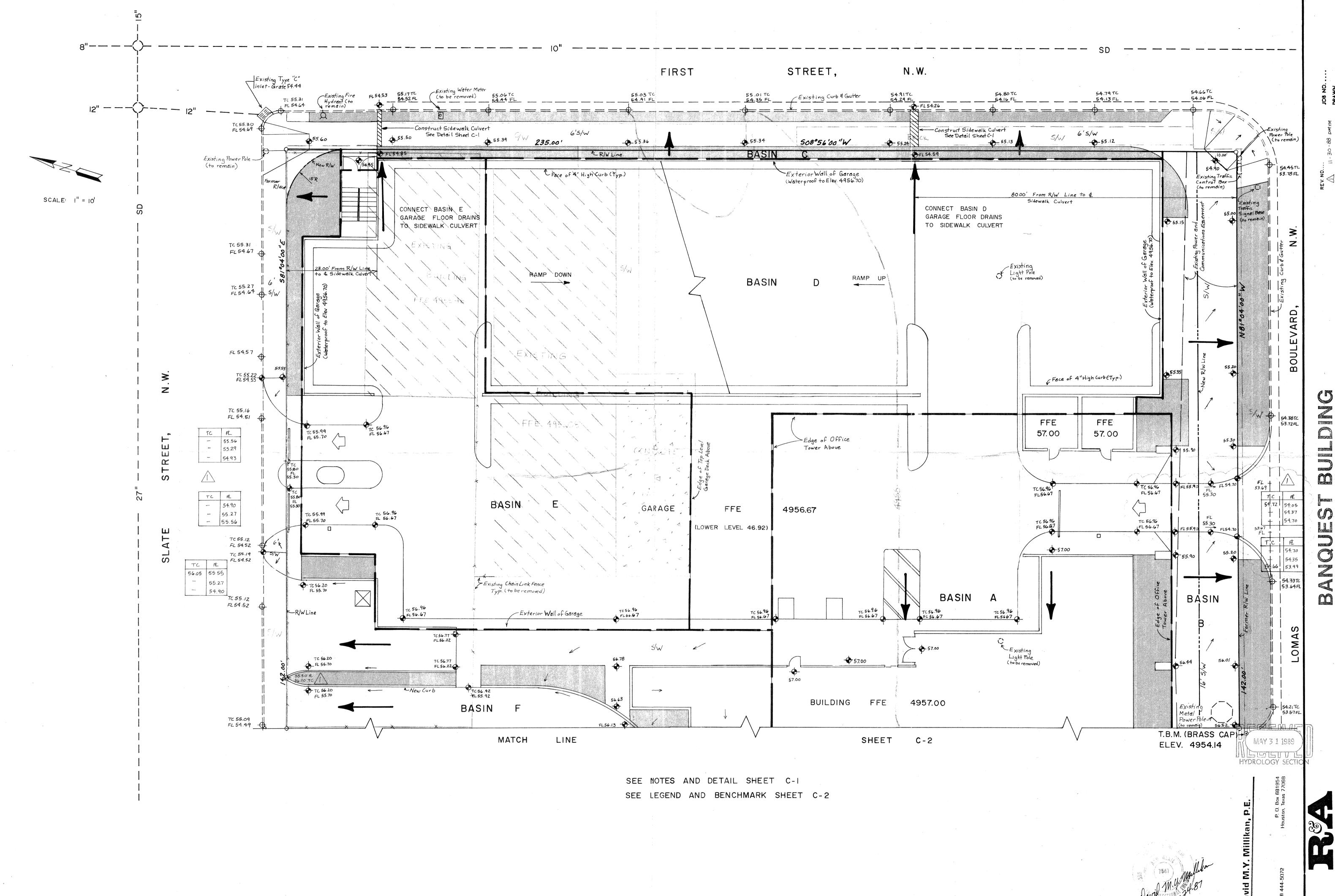
Construction Notes

- 3. All existing building, utilities, paving and other facilities within the site (except utilities within recorded easement) shall be removed prior to beginning new constuction.
- 4. Adequate measure for ensuring pedestrian safety shall be coodinated with and approved by the City raffic Engineer during construction.
- 5. Contractor shall oltain a topsoil disturbance permit from the City Environmental Health Department before rading begins.
- 6. Excavation, embakment and compaction within the site shall be in conformance with the soils report prepared by F. M. Fox & Associates, dated Nyember, 1987.
- 7. Backfill compaction within street rights-of-way shall be according to City of Albuquerque Interim Standard Specifications for Public Works Construction, 1985, based upon specified street use.
- 8. Drive pads shall be lonstructed in conformance with City Standard Drawing P-11, except as
- 9. Concrete Curbs and Gutter shall be constructed in conformance with City Standard Drawing P-
- 10. Sidewalk shall be constructed in confc.mance with City Standard Drawing P-13, except as

DRAINAGE CALCULATIONS

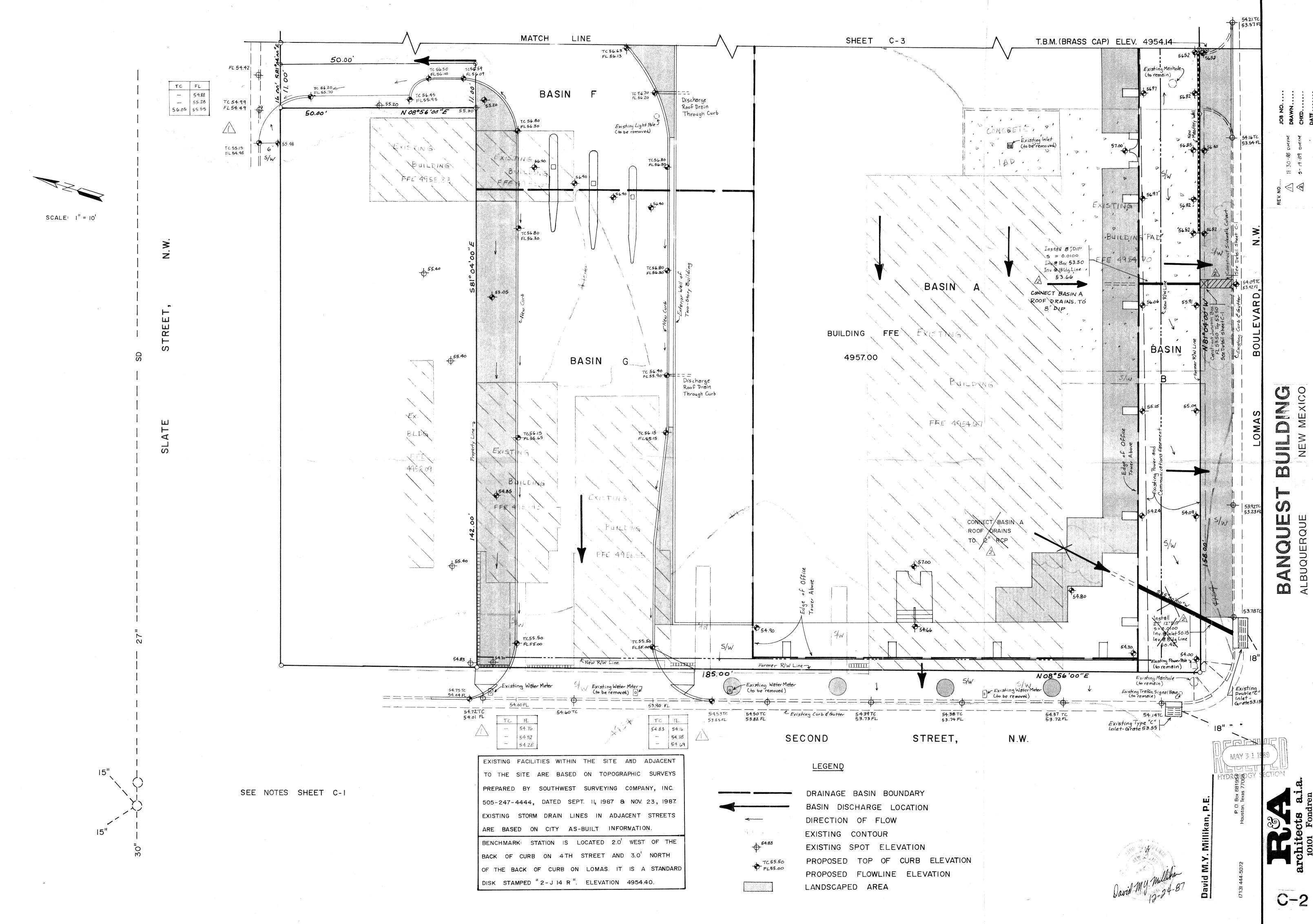
BASIN	AREA(sf)	RUNOF F COEFFICIENT	100-yr INTENSITY	Q _{IOO} (cfs)	^I 6 hr	VOL ₁₀₀ (ac-ft)
А	22740	1.0	4.65	2.43	2.2	1.15
В	4830	Å	^	0.52	4	0.24
С	400			0.04		0.02
D	11675			1.25		0.59
E	7740		:	0.83		0.39
F	7185		¥	0.77	V	0.36
G	8830	1. 0	4.65	0.94	2.2	0.45

C-.



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C-3



C-2