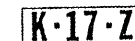
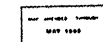
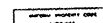
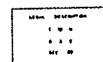
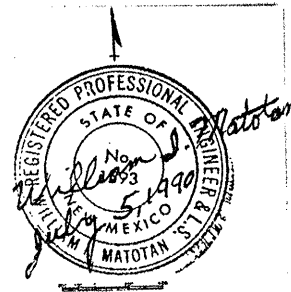
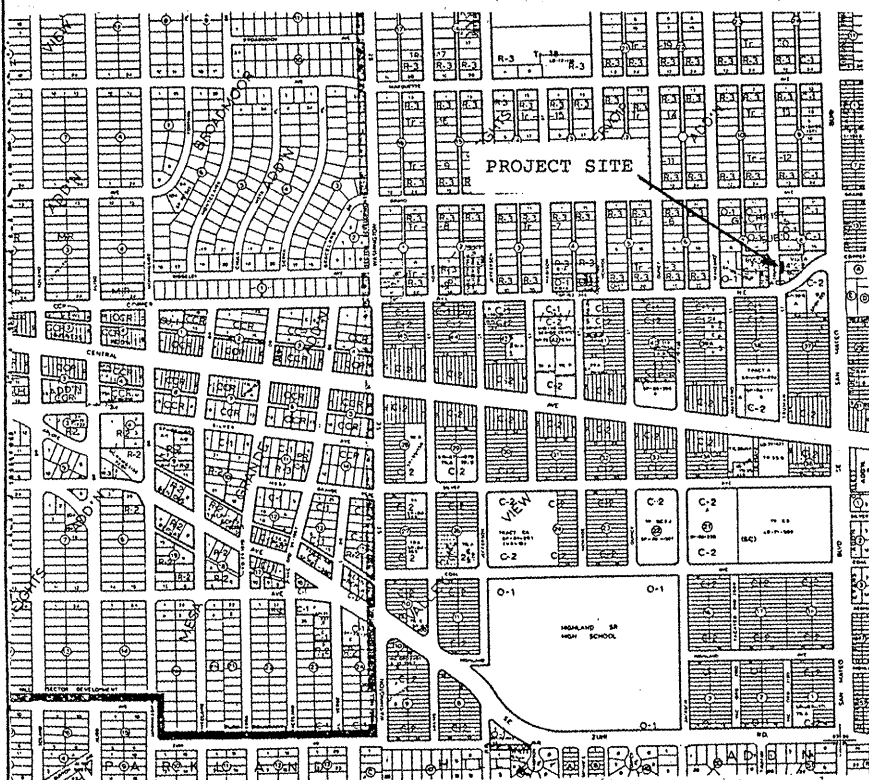


CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



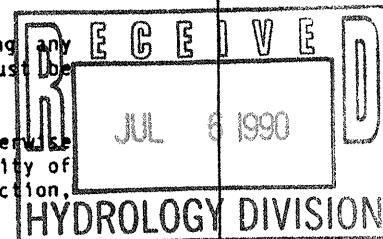
LOCATION MAP

LEGAL DESCRIPTION OF PROPERTY SERVED: Lots E & F & Northerly Portion of Tracts G & H, Buena Vista Business Add., a Subdivision of Portions of Tract No. 4, Heights Reservoir Addition to the City of Albuquerque.

BENCH MARK: ACS Station 6-K18 Brass Cap in Concrete, In Median, on Central Avenue N.E. 233 ft. east of Central & San Mateo. Elev. 5259.77

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 submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specifications for Public Works Construction, 1985.
3. Two working Days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to RESIDENTIAL street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.



APPROVALS	NAME	DATE	TITLE:
Hydrology	B. Montoya	7/14/90	DRIVEWAY & CURB IMPROVEMENTS
INSPECTOR			210 TRUMAN ST., N.E.
A.C.E./FIELD			PERMIT NO. SHEET 1 OF 5
			MAP NO.

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 18, 1990

William Matotan
Matotan & Associates, Inc.
7410 Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: S.O. #19 APPROVAL FOR 210 TRUMAN, NE
(K-17/D51) ENGINEER'S STAMP DATED JULY 5, 1990

Dear Mr. Matotan:

Based on the information provided on your submittal of July 6, 1990,
existing construction on the existing 6" pvc pipe is acceptable.

If I can be of further assistance, please feel free to call me at
768-2650.

Cordially,

Fred J. Aguirre
for Fred J. Aguirre, P.E.
Hydrologist

xc: Darlene Saavedra

BJM:FJA/bsj
(WP+473)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Driveway & Curb Improvements
210 Truman St NE ZONE ATLAS/DRNG. FILE #: K-17 #1051

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Lots E & F & Northerly Portion of Tract G & H,
Buena Vista Bldg. Addn., & Subdn. of Portion of Tract 4
 CITY ADDRESS: 210 Truman St NE Heights Res. Addn. to the
City of Albany,

ENGINEERING FIRM: Mato tan & Assoc., Inc. CONTACT: Wm. Mato tan
 ADDRESS: 7410 Montgomery Blvd NE PHONE: 883-1293
Albany,

OWNER: W. H. M. Mato tan CONTACT: William Mato tan
 ADDRESS: Same as above PHONE: 883-1293

ARCHITECT: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____

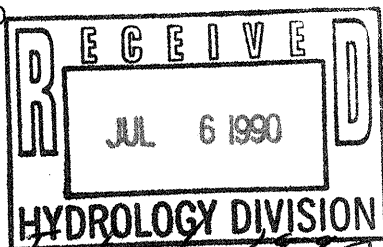
CONTRACTOR: Hopkins Concrete CONTACT: Mr. Hopkins (or Lisa)
 ADDRESS: 236 Muriel NE PHONE: 294-6763

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
5019 OTHER

PRE-DESIGN MEETING:

- ☐ YES
☐ NO
☐ COPY PROVIDED

DATE SUBMITTED: July 6, 1990BY: William D. Mato tan

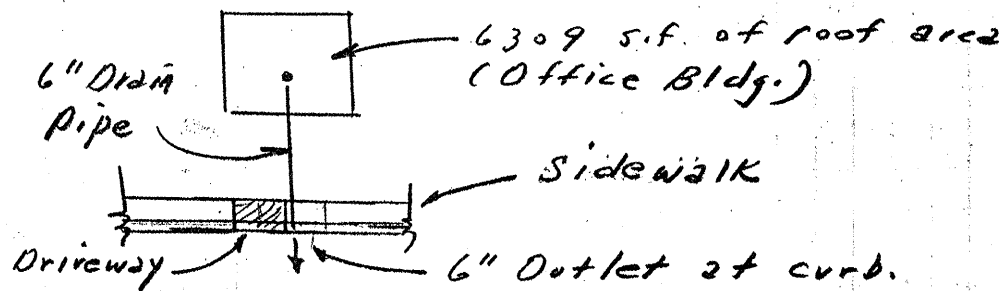
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☒ DRAINAGE REQUIREMENTS
☒ OTHER 5019 Approval (SPECIFY)

7410 Montgomery
Suite 200B
87109

MATOTAN & ASSOCIATES, INC.
7410 Montgomery Blvd., NE
Albuquerque, New Mexico
Tel. (505) 883-1293

Project Driveway & Curb Improvements
210 Truman St., NE Sheet 4 of 5
Subject: Drain Pipe Job No. ---
Comp. by WIM Date 7/6/90 Chk'd --- Date ---



Determine Q_{100} (From DPM)

$$I = P_c (6.84) T_c^{-0.51} = 4.86 \text{ in./hr.}$$

$$P_c = 2.3 \text{ in (DPM Plate 22.2, D-1)}$$

$$T_c = 10 \text{ minutes}$$

Rational Formula:

$$Q_{100} = C i A$$

$$\text{where } C = 0.95 \text{ (impervious)}$$

$$A = 6309 \text{ sf} / 43,560 \text{ acres} = 0.145 \text{ acres}$$

$$Q_{100} = C i A = (0.95)(4.86 \text{ in/hr.})(6309/43,560)$$

$$= \underline{0.67 \text{ cfs flow, } Q_{100}}$$

Determine Capacity of 6" Pipe

Chezy Formula

$$h = f \frac{L}{D} \frac{V^2}{2g}$$

$$12' = (0.021) \frac{50'}{0.5'} \left(\frac{V^2}{64.4} \right)$$

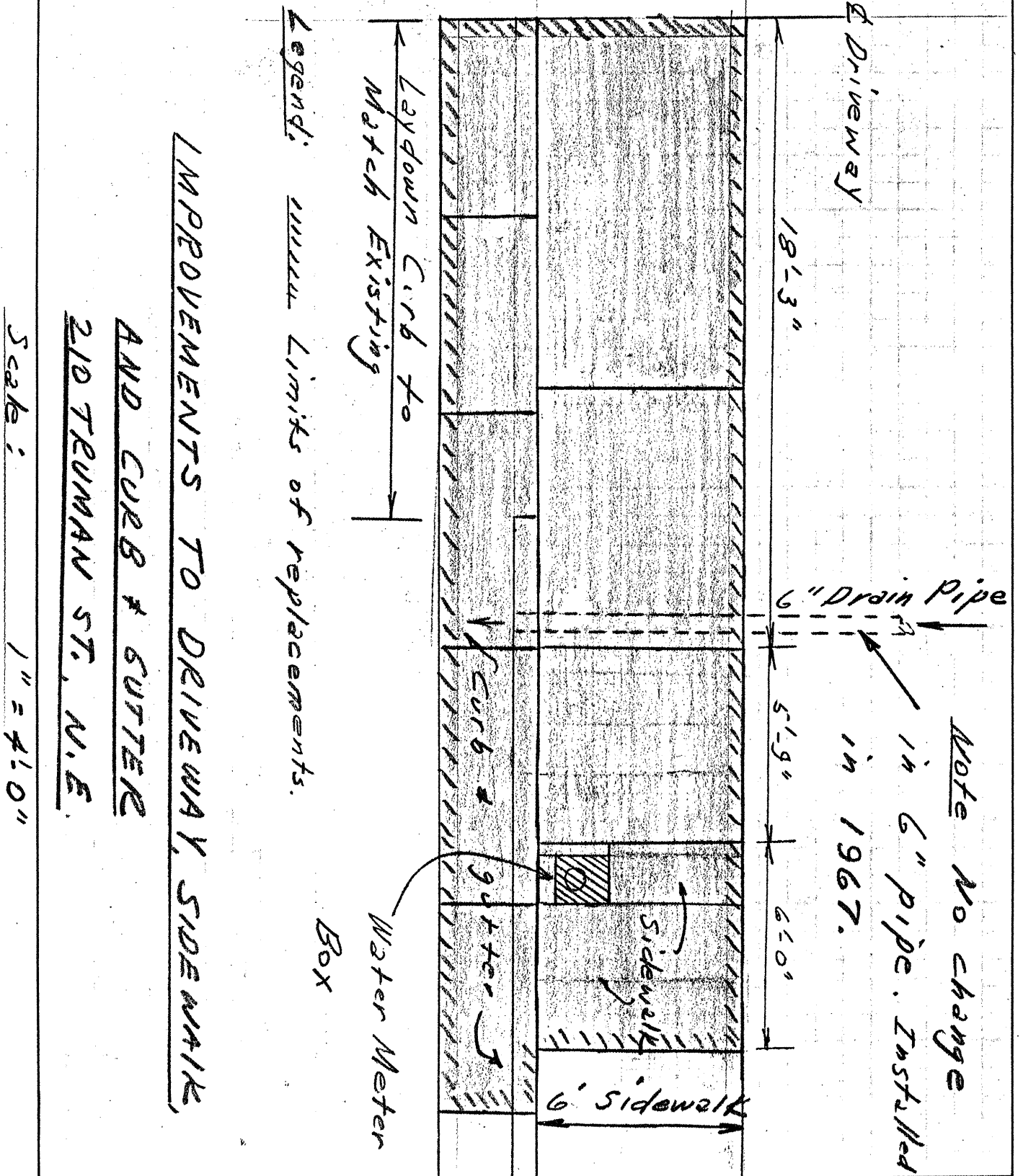
Note: 0.021 for approx. 19 fps.

$$V = 19.2 \text{ ft/sec.}$$

$$Q = VA = (19.2 \text{ ft./sec.})(0.20 \text{ ft}^2) = \underline{3.8 \text{ cfs. capacity}}$$

MATOTAN & ASSOCIATES, INC.
7410 Montgomery Blvd., NE
Albuquerque, New Mexico
Tel. (505) 883-1293

Project Driveway & Curb Improvements Sheet 5 of 5
Subject: _____ Job No. _____
Comp. by WIM Date 7/6/90 Chk'd _____ Date _____

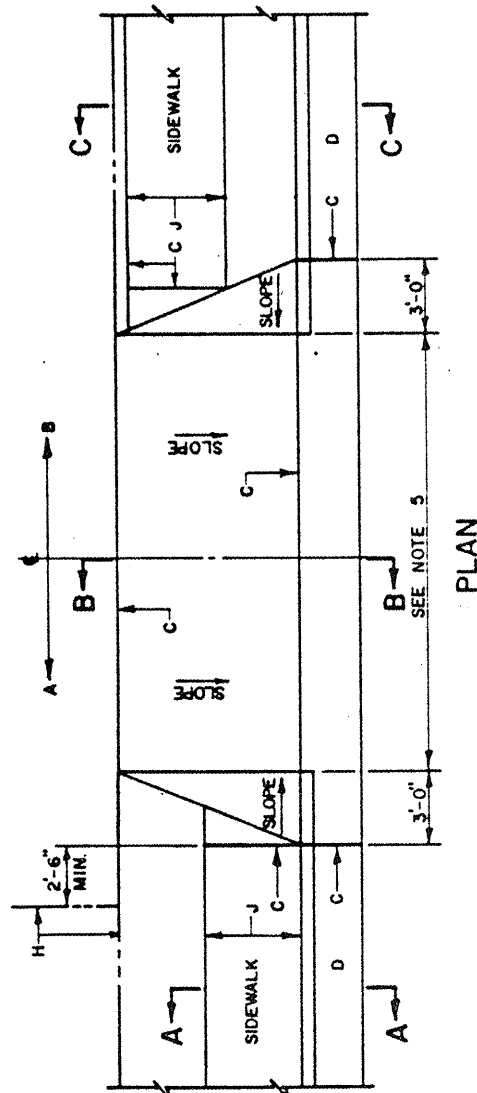


GENERAL NOTES:

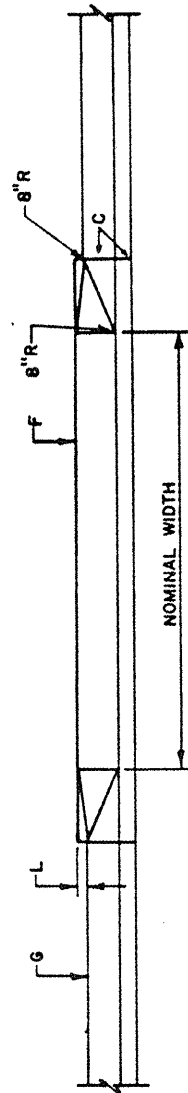
1. DEVIATIONS FROM THESE STDS SHALL BE SUBMITTED TO THE ENGINEER AND/OR TRAFFIC ENGR. FOR APPROVAL PRIOR TO CONSTRUCTION.
2. REQUEST FOR SIDEWALK VARIANCES SHALL BE SUBMITTED TO THE DEVELOPMENT REVIEW BOARD.
3. USE 1/2" EXP JT. WHERE SIDEWALK OR DRIVEPAD ABUTS BLDGS, FENCES, WALLS OR OTHER IMMOVABLE OBJECTS.
4. ALL DRIVEPADS SHALL BE A MIN. OF 6.5' IN DEPTH OR SHALL BE CONSTRUCTED FROM BACK OF CURB TO P/L, WHICHEVER IS GREATER.
5. DRIVEPADS WIDER THAN 18' (NOMINAL) SHALL HAVE 1/2" EXP JT. AT MIDPOINT. DRIVEPADS WIDER THAN 36' SHALL HAVE 1/2" EXP JT. 18' MAX. BETWEEN JT. EQUALLY SPACED.
6. CURB TYPE SIDEWALK SHALL BE USED ONLY WHEN VARIANCE IS APPROVED.
7. FOR SIDEWALK WIDTH, SEE CHAP. 23 THE DEVELOPMENT MANUAL.
8. SUBGRADE UNDER SIDEWALK & DRIVEPAD SHALL BE COMPACTED TO 90% MAX. DENSITY TO A DEPTH OF 6".

CONSTRUCTION NOTES:

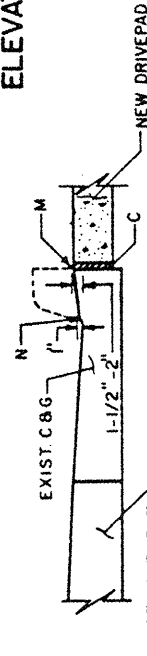
- A. CURB TYPE SIDEWALK.
- B. OFFSET SIDEWALK.
- C. 1/2" EXP JT., ADJUST TO FIELD CONDITIONS ON REPLACEMENT WORK.
- D. CURB & GUTTER.
- E. SLOPE TO BE ADJUSTED TO PROVIDE A UNIFORM TRANSITION BETWEEN SIDEWALK & DRIVEPAD.
- F. TOP OF DRIVEPAD.
- G. TOP OF CURB.
- H. PROPERTY LINE.
- J. VARIABLE WIDTH.
- K. SLOPE 1/4" PER FT.
- L. FINISH GRADE AT PROPERTY LINE SHALL BE 0.33' ABOVE TOP OF CURB. (TYPICAL). IN CASES OF INSUFFICIENT R/W THIS REQUIREMENT CONFLICTS WITH SIDEWALK SLOPE REQUIREMENTS. DEVIATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- M. SAW CUT EXISTING CONCRETE FROM BACKSIDE OF CURB WITH SLOPE TOWARD FLOWLINE.
- N. EXPOSED CUT EDGES TO BE GROUND SMOOTH/ROUNDED TO REMOVE SHARP EDGE.



PLAN

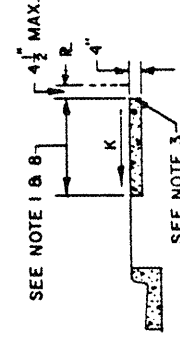
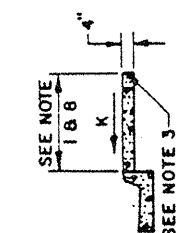


ELEVATION



ALTERNATE DETAIL

MACHINE CUT EXISTING CURBS



SEE NOTE 1 & 8

SEE NOTE 3

SECTION A-A

SECTION B-B

SECTION C-C

CITY OF ALBUQUERQUE

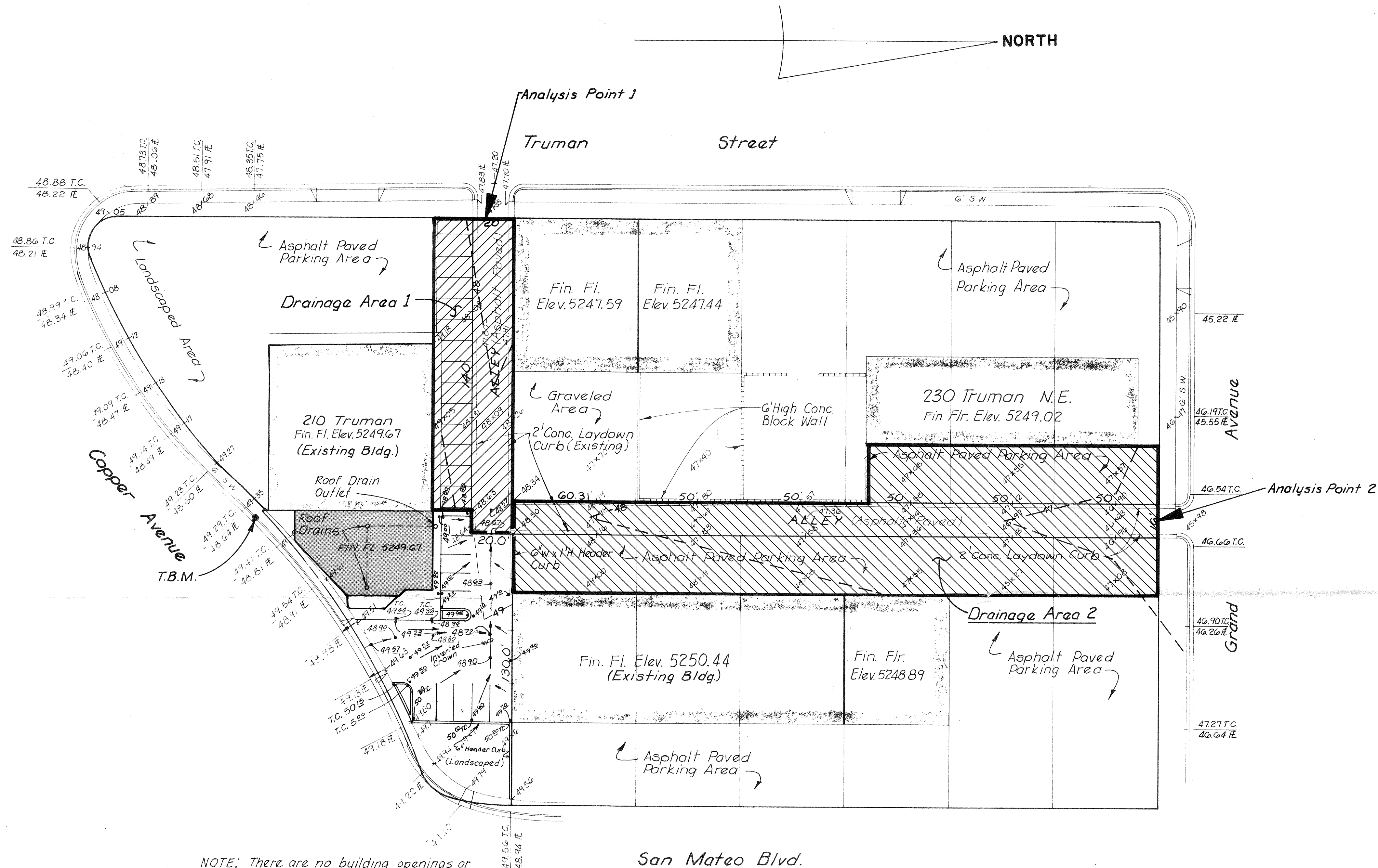
PAVING

DRIVEPADS

DWG. 2425

AUG. 1986

Sheet 3 of 5



Drainage Plan

SCALE: 1" = 30'

LEGEND

- 49 -- Existing Contour One Foot Interval
- 49 — Proposed Contour One Foot Interval
- Proposed Flow Direction
- .49² Proposed Spot Elevation
- x49² Existing Spot Elevation

NOTE: The New Area II Study Indicates no flooding in the intersection of Copper & San Mateo.

Bench Mark

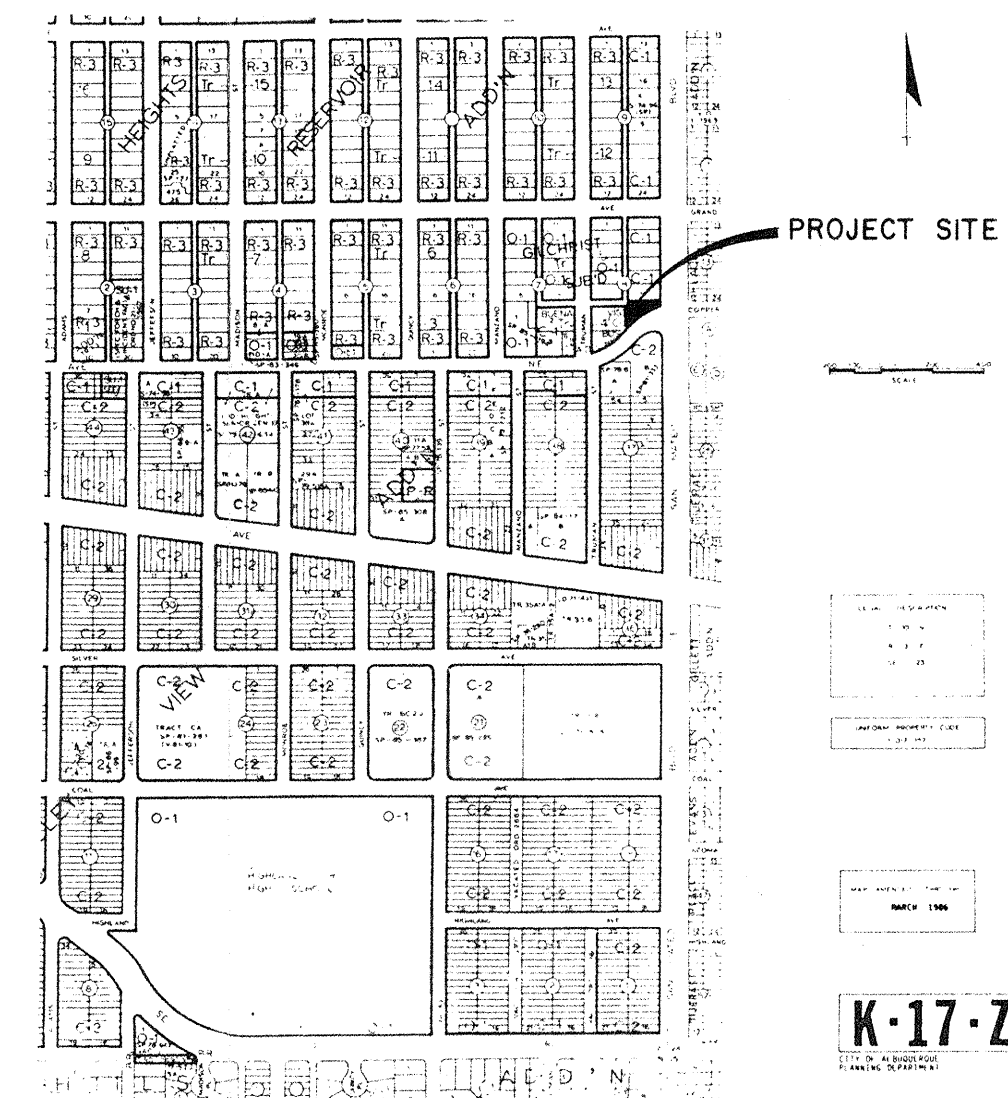
ACS Station 6-K18 Brass Cap in Concrete, in Median, on Central Avenue N.E. 233' of east of & Central & San Mateo. Elev. 5259.77

SET T.B.M.

"□" Chiseled in top of curb on north side of Copper Ave., opposite S.E. Corner of Bldg. @ 210 Truman. Elev. 5249.30

LEGAL DESCRIPTION

Portion of Lot F and Lot G of the Buena Vista Business Addition a Subdivision of Portions of Tract No. 4 of Heights Reservoir Addition to the City of Albuquerque, New Mexico.



CALCULATIONS

Ground Cover Information
Source: SCS Bernalillo County Soil Survey, Plate 31
WCB, Wink - Embudo Complex
Hydrologic Soil Group B

Rational Method
Discharge: $Q = CIA$
Where C Varies

$$I = P_6(6.84)T_c^{-0.51} = 4.86 \text{ in/hr.}$$

$$P_6 = 2.3 \text{ in (DPM Plate 22.2, D-1)}$$

$$T_c = 10 \text{ minutes (minimum)}$$

$$A = \text{area in acres}$$

Volume: $V = CP_6 A(1/12)$
Where C Varies

$$P_6 = 2.3 \text{ in (DPM Plate 22.2, D-1)}$$

$$A = \text{area in square feet}$$

Existing Condition
The current site is 10% landscaped and 90% gravelled parking, draining to the paved alley at the N.W. corner.

$$A \text{ total} = 9215.67 \text{ sf} = 0.21 \text{ ac}$$

$$A \text{ gravel} = 8294.10 \text{ sf} = 90\%$$

$$A \text{ landscape} = 921.57 \text{ sf} = 10\%$$

'C' calculation:

$$(90\%) \text{ Gravel (0.85)} = 0.765$$

$$(10\%) \text{ Landscape (0.25)} = 0.025$$

$$\text{Composite 'C' factor} = 0.790$$

$$Q_{100} = CIA = 0.79(4.86)(0.21) = 0.81 \text{ cfs}$$

$$V_{100} = CP_6 A/12 = 0.79(2.3)(9215.67)/12 = 1395 \text{ cf}$$

Developed Condition

$$A \text{ total} = 9215.67 \text{ sf} = 0.21 \text{ ac}$$

$$A \text{ landscape} = 1612.75 \text{ sf} = 17.5\%$$

$$A \text{ imp} = 7602.92 \text{ sf} = 82.5\%$$

'C' calculation:

$$(17.5\%) \text{ Landscape (0.25)} = 0.044$$

$$(82.5\%) \text{ Impervious (0.95)} = 0.784$$

$$\text{Composite 'C' factor} = 0.828$$

$$Q_{100} = CIA = 0.828(4.86)(0.21) = 0.85 \text{ cfs}$$

$$V_{100} = CP_6 A/12 = 0.828(2.3)(9215.67)/12 = 1463 \text{ cf}$$

Comparison of Site

$$Q_{100} \text{ developed } 0.85 \text{ cfs}$$

$$Q_{100} \text{ existing } 0.81 \text{ cfs}$$

$$\text{Increase } 0.04 \text{ cfs}$$

$$V_{100} \text{ developed } 1463 \text{ cf}$$

$$V_{100} \text{ existing } 1395 \text{ cf}$$

$$\text{Increase } 68 \text{ cf}$$

Analysis Point 1 (Existing paved alley at Truman N.E.)

$$\text{Capacity} = Q = AV$$

$$A = \text{area in square feet}$$

$$V = (\text{friction factor})(R)^{2/3}(S)^{1/2} \text{ (Mannings Formula)}$$

$$A \text{ inverted crown} = (0.35)(10) = 3.5 \text{ sf}$$

$$V = (1.486/0.017)(3.5/20.01)^{2/3}(0.00753)^{1/2} = 2.37 \text{ fps}$$

$$Q = (3.5)(2.37) = 8.3 \text{ cfs}$$

Analysis Point 1

$$\text{Runoff} = Q_{100} = CiA$$

$$A \text{ total} = 5890 \text{ sf} = 0.135 \text{ Ac. (Drainage Area 1)}$$

$$'C' \text{ factor} = 0.95 \text{ (all paved)}$$

$$Q_{100} = CIA = (0.95)(4.86)(0.135) = 0.62 \text{ cfs}$$

Comparison Analysis Point 1 (Capacity/Runoff)

$$\text{Capacity: } Q = 8.3 \text{ cfs}$$

$$\text{Runoff: } Q_{100} = 0.62 \text{ cfs}$$

$$\text{Available Capacity} = 7.68 \text{ cfs at the 100 year event}$$

Analysis Point 2 (Existing paved alley at Grand N.E.)

$$\text{Capacity: } Q = AV$$

$$A = \text{area in square feet}$$

$$V = (\text{friction factor})(R)^{2/3}(S)^{1/2} \text{ (Mannings Formula)}$$

$$A \text{ inverted crown} = (0.27)(8) = 2.16 \text{ sf}$$

$$V = (1.486/0.017)(2.16/16.01)^{2/3}(0.0083)^{1/2} = 2.08 \text{ fps}$$

$$Q = (2.16)(2.08) = 4.49 \text{ cfs}$$

Analysis Point 2

$$\text{Runoff} = Q_{100} = CiA$$

$$A \text{ total} = 18,000 \text{ sf} = 0.41 \text{ Ac. (Drainage Area 2)}$$

$$'C' \text{ factor} = 0.95 \text{ (all paved)}$$

$$Q_{100} = CIA = (0.95)(4.86)(0.41) = 1.91 \text{ cfs}$$

Comparison Analysis Point 2 (Capacity/Runoff)

$$\text{Capacity: } Q = 4.49 \text{ cfs}$$

$$\text{Runoff: } Q_{100} = 1.91 \text{ cfs}$$

$$\text{Available Capacity} = 2.58 \text{ cfs at the 100 year event}$$

Determination
The increase of site runoff $Q_{100} = 0.04 \text{ cfs}$ will not cause, by its free discharge from the site, any flood condition in the split flow paved alley with the available $Q_{100} = 7.68 \text{ cfs}$ at analysis point 1 and available $Q_{100} = 2.58 \text{ cfs}$ at analysis point 2.



Oct. 29, 1987

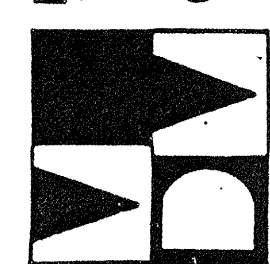
REVISED

NOV. 6, 1987

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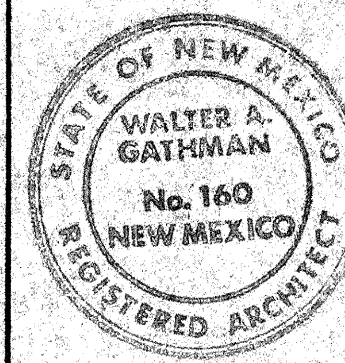
HYDROLOGY SECTION

MICHAEL DEL MASTRO / ARCHITECT / AIA



6916 BELLROSE AVE., N.E. / (505) 883-4929
ALBUQUERQUE, NEW MEXICO 87110

ADDITION AND REMODELING MATOTAN BUILDING NUMBER TWO



job no. 73-26
date 20 JUL 74
drawn by J. H. G.
checked WAG

project ADDITION & REMODELING
MATOTAN BUILDING NO. 2
owner WILLIAM MATOTAN
title TITLE SHEET

water a gathman and architect

sheet
K17/D51
1
10

INDEX OF DRAWINGS

- 1 TITLE SHEET AND SITE PLAN
- 2 FOUNDATION PLAN AND FRAMING PLAN
- 3 FLOOR PLAN, SCHEDULES, AND DETAILS
- 4 ELEVATIONS
- 5 WALL SECTIONS AND DETAILS
- 6 ARCHITECTURAL DETAILS
- 7 MECHANICAL - PLUMBING PLAN
- 8 MECHANICAL - AIR CONDITIONING PLAN
- 9 ELECTRICAL PLAN
- 10 ELECTRICAL - LIGHTING PLAN

DESIGN DATA

OCCUPANCY	GROUP F-2	PARKING	REQD - 28, PROVIDED - 29
CONSTRUCTION	TYPE III	SOIL BEARING	2500 PSF
FIRE ZONE	3	LUMBER	175 PSI MINIMUM *
SEISMIC ZONE	2	STEEL	$F_y = 33 \text{ KSI}$
ROOF LOADS		CONCRETE	3000 PSI
LIVE	20 PSF	FLOOR AREA	
DEAD	33 PSF	EAST	3390 SF
TOTAL	53 PSF	SOUTH	2390 SF
WIND LOADS	25 PSF	TOTAL	5830 SF

* UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS.

LEGAL DESCRIPTION

A PORTION OF LOT "F" AND LOT "G" OF THE BUENA VISTA BUSINESS ADDITION, A SUBDIVISION OF PORTIONS OF TRACT NO. 4 OF HEIGHTS RESERVOIR ADDITION TO THE CITY OF ALBUQUERQUE, N.M.

