

April 23, 1996

Martin J. Chávez, Mayor

Chris Weiss, P.E. C.L. Weiss Engineering P.O. Box 97 Sandia Park, NM 87047

RE: Grading and Drainage Plan for Lot 15 and North ½ of Lot 16, Yucca Addition (K11/D55), Submitted for Building Permit Approval, Engineer's

STAMP DATED 3/27/96.

Dear Mr. Weiss:

Based on the information provided in the submittal of April 1, 1996, the above referenced plan is approved for Building Permit release.

Please be advised that prior to Certificate of Occupancy release, the Engineer's Certification per the D.P.M. will be required.

If you should have any questions, please feel free to call me at 768-2666.

Sincerely,

Jusan Calongne, P.E.

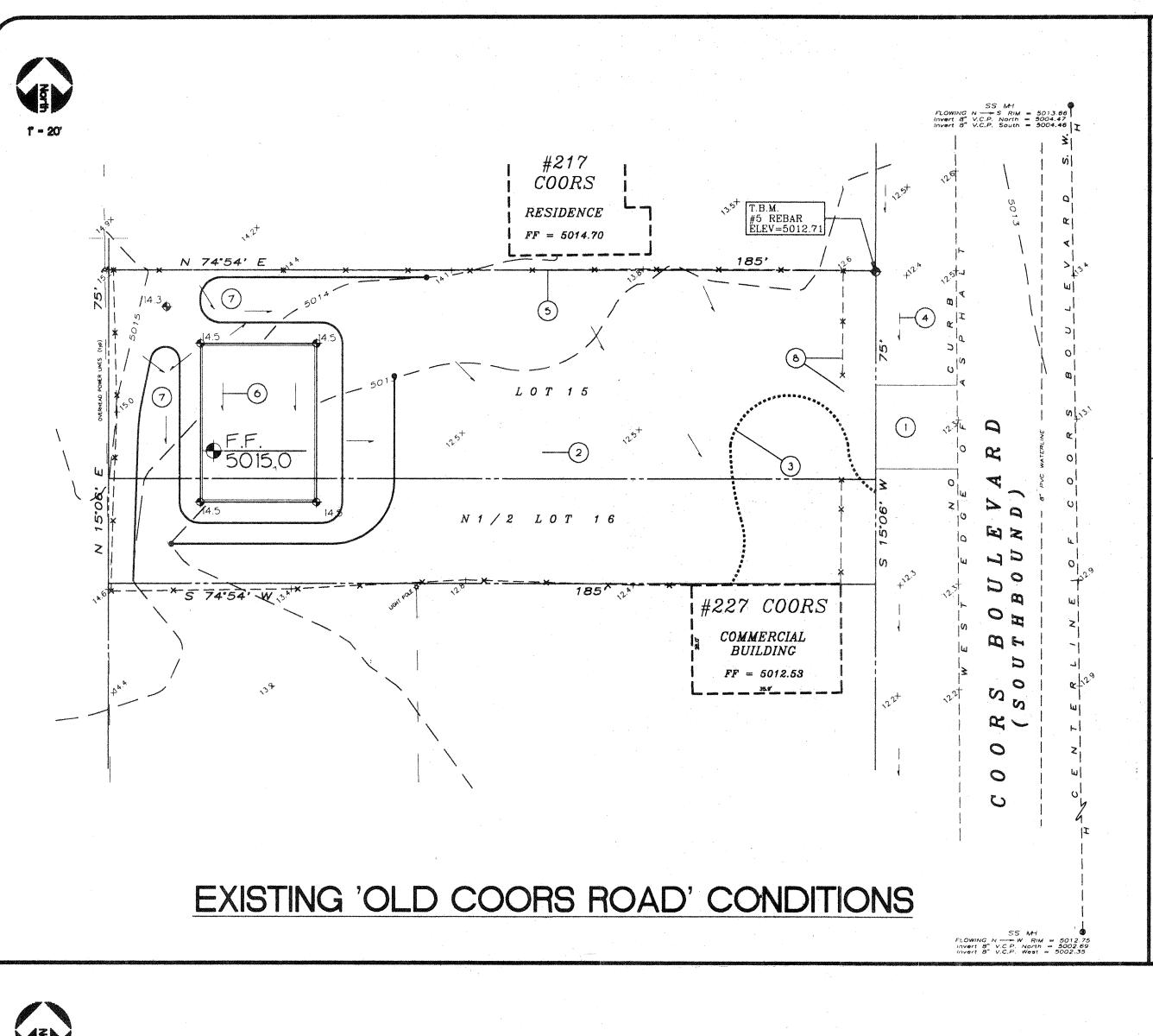
City/County Floodplain Administrator

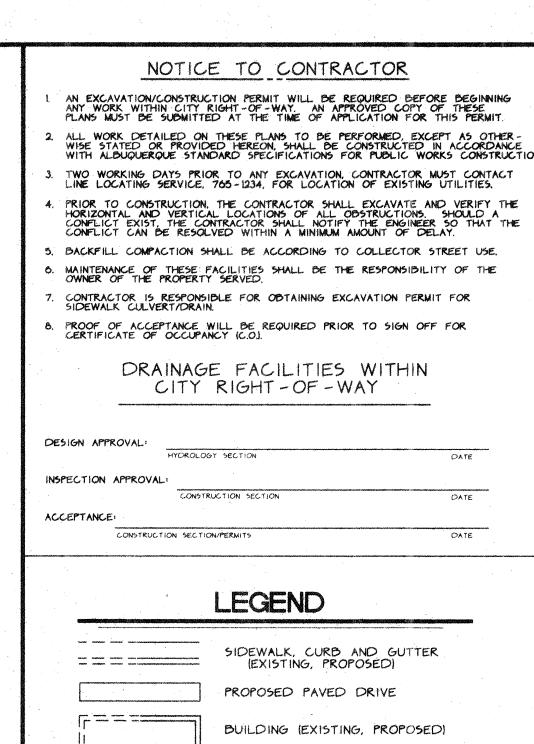
c: Andrew Garcia, City Hydrology File

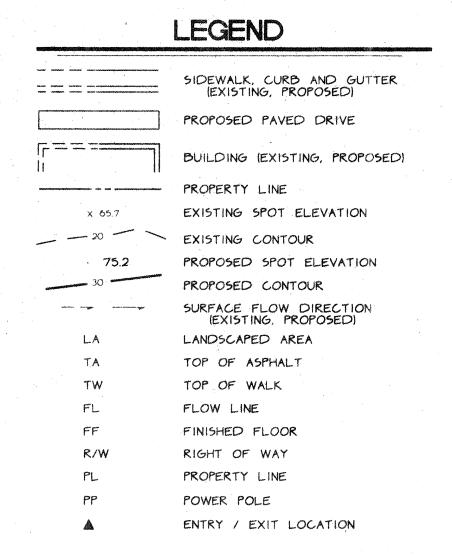


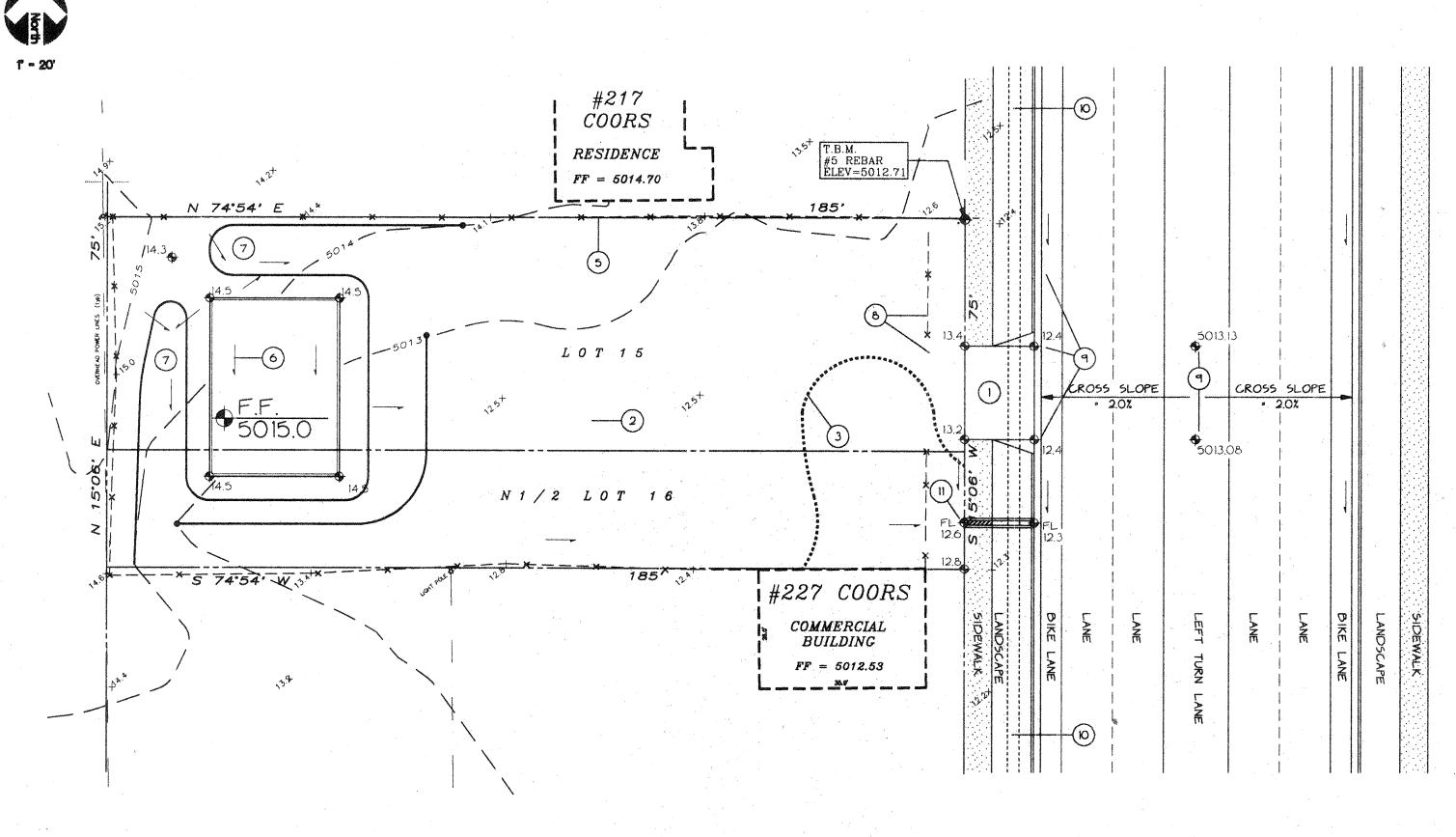
#### DRAINAGE INFORMATION SHEET

| PROJECT TITLE: Lot 15 and North 1/2 of Lot 16, Yucca LEGAL DESCRIPTION: Lot 15 and North 1/2 of Lot 16, Y |                                |
|---|--------------------------------|
| CITY ADDRESS: N/A   |                                |
| •   |                                |
| ENGINEERING FIRM: C.L. Weiss Engineering  | CONTACT: Chris Weiss           |
| ADDRESS: P.O. Box 97, Sandia Park NM, 87047   | PHONE: 281-1800                |
| OWNER: Mr. Dennis Romero  | CONTACT:                       |
| ADDRESS: 418 Coors Rd. SW, 87121  | PHONE:                         |
| ARCHITECT: BDA Architecture   | CONTACT: Chris Rasmussen       |
| ADDRESS: 6000 Uptown Blvd. NE 87110   |                                |
| SURVEYOR: Southwest Surveying Co., Inc.   | CONTACT:                       |
| ADDRESS:  |                                |
| CONTRACTOR FIRM: N/A  | CONTACT:                       |
| ADDRESS:  |                                |
|   |                                |
| PRE-DESIGN MEETING:   |                                |
| YES   | DRB NO                         |
| XNO   | EPC NO                         |
| COPY OF CONFERENCE RECAP SHEET PROVIDED   | PROJ. NO                       |
| TYPE OF SUBMITTAL:  | CHECK TYPE OF APPROVAL SOUGHT: |
| DRAINAGE REPORT   | SKETCH PLAT                    |
| X_DRAINAGE PLAN   | PRELIMINARY PLAT               |
| CONCEPTUAL GRADING & DRAINAGE PLAN  | SITE DEVELOPMENT PLAN          |
| X_GRADING PLAN  | FINAL PLAT                     |
| EROSION CONTROL PLAN  | X BUILDING PERMIT              |
| ENGINEER'S CERTIFICATION  | FOUNDATION PERMIT              |
|   | CERT. OF OCCUPANCY             |
|   | ROUGH GRADING PERMIT           |
|   | GRADING / PAVING PERMIT        |
|   | OTHER                          |
| 11/2011 10 (99/2  | DEGET VE                       |
| DATE SUBMITTED: MARCH 27, (996)   | APR - Ligos                    |
| BY: C.L. Weiss Engineering, Inc.  |                                |
|   | LAYDROLOGY DIVISION            |









FUTURE 'OLD COORS ROAD' CONDITIONS

The present site is an undeveloped property which slopes at 1% - 2% to the southeast. Coors Blvd. S.W. abuts the site to the east. The property to the south is developed commercial, the properties to the north and west are developed residential.

- · Grading relationships between the existing ground elevations and proposed finished elevations in order to
- facilitate positive drainage to designated discharge points. · The extent of proposed site improvements, including buildings, walks and pavement.
- · The flow rate/volume of rainfall runoff across or around these improvements and methods of
- handling these flows to meet City of Albuquerque requirements for drainage management.
- · The relationship of on-site improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

DRAINAGE PLAN CONCEPT: Drainage swales located on the north and west side of the building divert historical off-site flows around the proposed building where they continue along historical paths to the west. The developed flows totaling 1.0 cfs, which represents an increase from historical of 0.1 cfs represent an insignificant increase in the floodplain elevation. When Old Coors Drive Improvements (C.O.A. Project No. 4750.90 - street and storm drain improvements: planned for late 1996) are constructed, Owner shall install a 1.0' wide sidewalk culvert to pass a portion equal to or greater than the on-site flows to the street. The bulk of the off-site flows will continue to follow the historic flowpath to the south.

| LEGAL:    | Lot 15 and North 1/2 of Lot 16, Block 2, Yucca Ad | ddition, Albuquerque, Ne | w Mexico.                               |
|-----------|---|--------------------------|---|
| SURVEYOR: | Southwest Surveying Co., Inc. 247-4444            | •                        | · • • • • • • • • • • • • • • • • • • • |

T.B.M.: Top of #5 rebar located at the northeast property corner - elevation = 5012.71

SOILS: SCS Soil Survey of Bernalillo County (sheet 30) indicates that the soil is Madurez-Wink association. undulating (MWA), a gravelly fine sandy loam classified in Hydrologic Soil Group 'B'. Permeability is 0.6" to 2" per hour

FLOOD HAZARD: Per FEMA Boundary Map #27, the site is located in a flood zone designated 'AH' with a Base Flood Elevation = 5013.00 (see FEMA Map insert this page). Note: F.F. elevation = 5013 = 2' above the

means of temporary earth berms or silt fences at the low points on the west property line.

1.97

OFF-SITE DRAINAGE: Based on FEMA Analysis and site visits, approximately 6.0 acres drain across this property. EROSION CONTROL: The contractor is responsible for retaining on-site all sediment generated during construction by

| Calculations are based o | n the Drain | age Des                 | an Cr | CA. CULA       |       |                                     | PM. V | ol 2. dated Jan., 1  | 993                |
|--------------------------|-------------|-------------------------|-------|----------------|-------|-------------------------------------|-------|----------------------|--------------------|
|                          |             |                         | 1     | ON-S           |       | and the second second second second |       |                      | g german gertalen. |
| AREA OF SITE:            |             | Apprilemental September |       | 13875          | SF    | •                                   | 0.32  | Ac.                  |                    |
| HISTORIC FLOWS:          |             |                         |       | DEVELOPED FLO  | WS:   |                                     |       | <b>EXCESS PRECIP</b> | PITATION:          |
| On-Site Historic La      | nd Conditio | n                       |       | On-Site Develo | ped l | and Condition                       |       | Precip. Zone         | 1                  |
| Area a =                 |             | 0                       | SF    | Area a         | =     | 0                                   | SF    | Ea =                 | 0.44               |
| Area b =                 |             | 0                       | SF    | Area b         | =     | 0                                   | SF    | Eb =                 | 0.67               |
| Area c =                 |             | 13875                   | SF    | Area c         | =     | 12675                               | SF    | Ec =                 | 0.99               |

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

| TV OIGHTON I                      |          | · · · · · · · · · · · · · · · · · · · |         |                                 |
|-----------------------------------|----------|---------------------------------------|---------|---------------------------------|
| Historic E =                      | 0.99 in. | Developed E                           |         | 1.07 in.                        |
| On-Site Volume of Runoff: V360 =  | E*A/     | 12                                    |         |                                 |
| Historic V360 =                   | 1145 CF  | Developed V360                        | Airel   | 1243 CF                         |
| On-Site Peak Discharge Rate: Op = | QpaAa+Qp | bAb+QpcAc+QpdAd                       | /43,560 |                                 |
| For Precipitation Zone 1          |          |                                       |         | and the second of the second of |
| Opa = 1.29                        |          | Qpc                                   | = 2.87  |                                 |
| 0.00                              | 14 die 1 | ~~                                    | 4 07    | the second second               |

0.9 CFS Developed Qp = A portion of the flows greater than the total on-site flows will pass to Old Coors Drive via the sidewalk culvert, (see calcs, below)

The unconcentrated flows enter the site along the north property line.

B = 0% 10% 90% C=

CONSTRUCT 2'R X 4"
DEEP CONCRETE PAD
AT PIPE ENTRANCE
TO DIRECT FLOWS.

-- SIDEWALK ---

PROPERTY— CONSTRUCT 2'—
WIDE SIDEWALK
CULVERT WITH
STEEL PLATE TOP.

SIDEWALK CULVERT

ENTRANCE

| lope   | =   | 0.0200 7 | Discharge      | = | 1.0 cfs  |
|--|---|----------|----------------|---|----------|
| managilar quanqui sana da galar an | enge<br>Private vivate na vivate se | 0.013    | Depth Reg'd    | = | 0.22'    |
| ottom Width  |   | 1.01     | Depth Provided | = | 0.50' OK |

# KEYNOTES

1 EXISTING SITE: GRAVEL ENTRANCE DRIVE, MATCH EXISTING ELEVATIONS FOR SMOOTH TRANSITION AND TO PREVENT BLOCKING OF FLOWS, FUTURE SITE: CONCRETE DRIVE PAD TO BE CONSTRUCTED CONCURRENTLY WITH OLD COORS ROAD STREET

2 GRAVEL PAVING THROUGHOUT. OWNERS OPTION TO PLACE DIRECTLY ON GRADE OR OVER <u>POROUS</u> LANDSCAPING FABRIC FOR WEED CONTROL.

3 EXTENTS OF 100 YEAR FLOODPLAIN BOUNDARY PER FEMA MAP. FLOOD ZONE AH, BASE FLOOD ELEVATION . 5013.00

(4) EXISTING SHALLOW SWALE CARRIES OFF-SITE FLOWS SOUTH.
MAINTAIN FLOW PATH UNTIL OLD COORS DRIVE IMPROVEMENTS
ARE CONSTRUCTED.

5 EXISTING CHAIN-LINK FENCE SURROUNDING PROPERTY TO REMAIN.

6 ROOF FLOWS TO DRAIN TO DOWNSPOUTS ALONG SOUTH ELEVATION. PROVIDE EROSION PROTECTION AT OUTLETS.

7 CONSTUCT MINOR SWALES ON THE NORTH AND WEST SIDE OF THE PROPOSED BUILDING TO DIVERT FLOWS EAST AND SOUTH.

(8) EXISTING CHAIN-LINK FENCE / GATE TO REMAIN.

9 STREET GRADES SHOWN ARE FUTURE GRADES TAKEN FROM COAPROJECT NO. 4750.90. PRELIMINARY DOCUMENTS BY GANNETT FLEMING WEST, INC. (SHEETS 2-1: STREET SECTION AND 3-10: PLAN AND PROFILE)

0 30" DIA. STORM DRAIN SHOWN ARE FUTURE IMPROVEMENTS AS SHOWN IN PROJECT NO. 4750.90. PRELIMINARY DOCUMENTS BY GANNETT FLEMING WEST, INC. (SHEETS 2-1: STREET SECTION AND 3-10: PLAN AND PROFILE)

1) I WIDE CONCRETE SIDEWALK CULVERT WITH STEEL PLATE TOP TO BE CONSTRUCTED CONCURRENTLY WITH OLD COORS DRIVE IMPROVEMENTS PER COA STD. DWG. 2236. SEE DETAIL THIS SHEET.

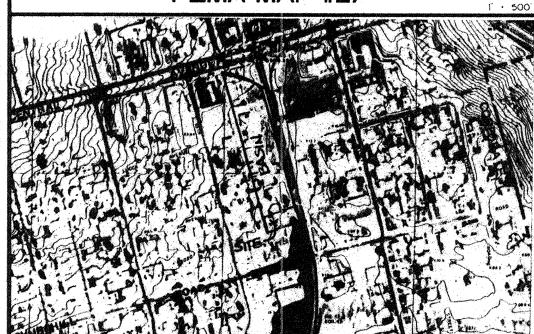
# **GENERAL NOTES**

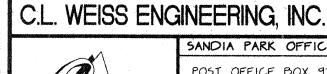
APPARENT PROPERTY CORNERS AND PROPERTY BOUNDARY LINES SHOWN FOR ORIENTATION ONLY.

### VICINITY MAP #K-11-Z

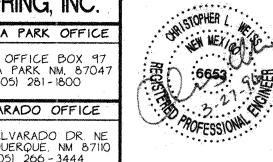


FEMA MAP #27









LOT 15 AND NORTH 1/2 OF LOT 16 YUCCA ADDITION - ROMERO

Drawn By: Checked By: Job Number: BJB CLW Drainage and

C-1 Grading Plan SH. 1 OF 1

MAR 26, 1996