

M. HEW CONGRETE CHANNEL. SEE SHT C.Z + C.S.

18. NEW SIBEWALK CULVERT. SEE SHT CIL+ C3.

16.97

53.62 245.39 53.51 26.92 12°31'10"

C17 23.91 15.00 21.46

C19

29.21 20.00 26.68

C20 30.11 214.36 30.08 15.08

L18

L19

L20

L21

42.23

114.05

81.46

55.04

N85°30'36"W

S04°29'24"W

S04°29'30"W

N85°30'36"W

12.00 90*00*00*

15.35 91°19'54"

17.91 83°40'54"

LEGEND

EXISTING CONTOUR ELEVATION

EXISTING SPOT ELEVATION

PROPOSED CONTOUR ELEVATION

PROPOSED SPOT ELEVATION

DIRECTION OF FLOW

DRAINAGE SWALE

SITE LIGHT POLE EXISTING FIRE HYDRANT

NEW FIRE HYDRANT

CONCRETE CURB

STREET LIGHT

TELEPHONE PEDESTAL

DROP INLET

CATY PEDESTAL

PROJECT DATA

PROPERTY ADDRESS

GOLF COURSE RD NW

LEGAL DESCRIPTION

TRACT A-1, LAS MARCADAS SUBDIVISION

PLAT RCD'D. 07-17-00 AS 2000C-192.

BENCH MARK

STA. '3-B12', A BRASS CAP AT THE TOP **EDGE OF ESCARPMENT, APPROX. 700'** WXNW OF PROJECT SITE. ELEV.=5277.26

SITE TOPOGRAPHY BY REX VOGLER, NMPS 10466 BOUNDARY SURVEY BY ALDRICH LAND SURVEYING TIMOTHY ALDRICH, NMPS 7719

SURVEY NOTES:

1: CONTOUR INTERVAL IS ONE (1) FOOT.

2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "22-L19", HAVING AN ELEVATION OF 5163.06 .

3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-SIDERATIONS.

4: THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN HEREON ARE FOR REFERENCE ONLY.

5: ONE FOOT CONTOUR INTERVAL ADD 5100 FEET TO SPOT ELEV'S.

6: TO ACCESS THIS PROPERTY FROM ANY POINT OTHER THAN EASEMENT (1) ACCESS LOCATION, THE CITY OF ALBUQUERQUE TRANSPORTATION DEPARTMENT MUST BE CONTACTED.

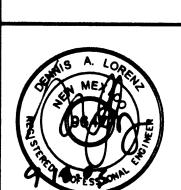
THE FOLLOWING STATEMENT IS REQUIRED FOR TOPOGRAPHIC SURVEYS BY THE N.M. BOARD OF REGISTRATION FOR ENGINEERS & SURVEYORS:

THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCED HEREON.

> MAR 2 9 2004 HYDROLOGY SECTION

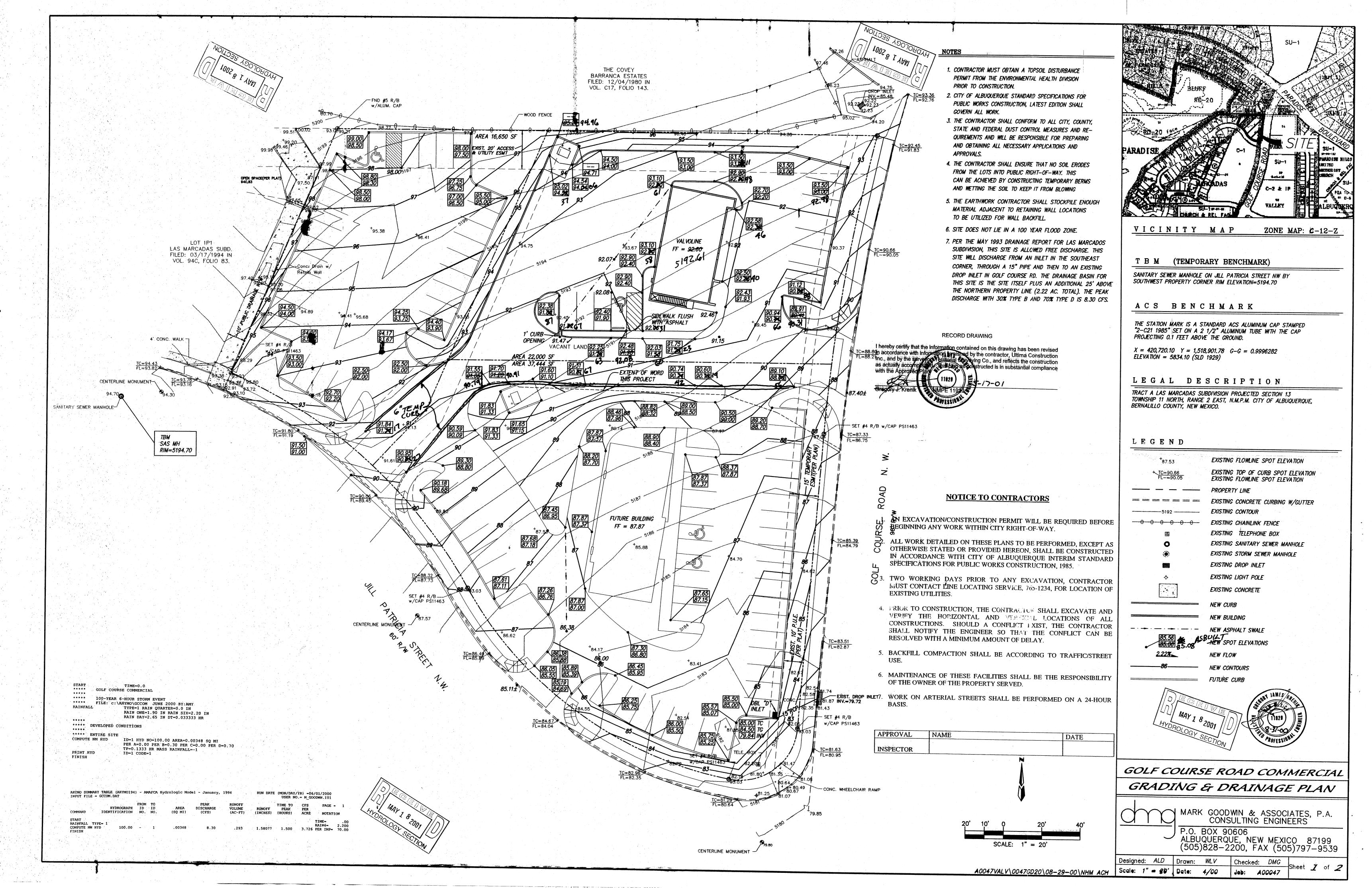
SUBDIVISION CADAS

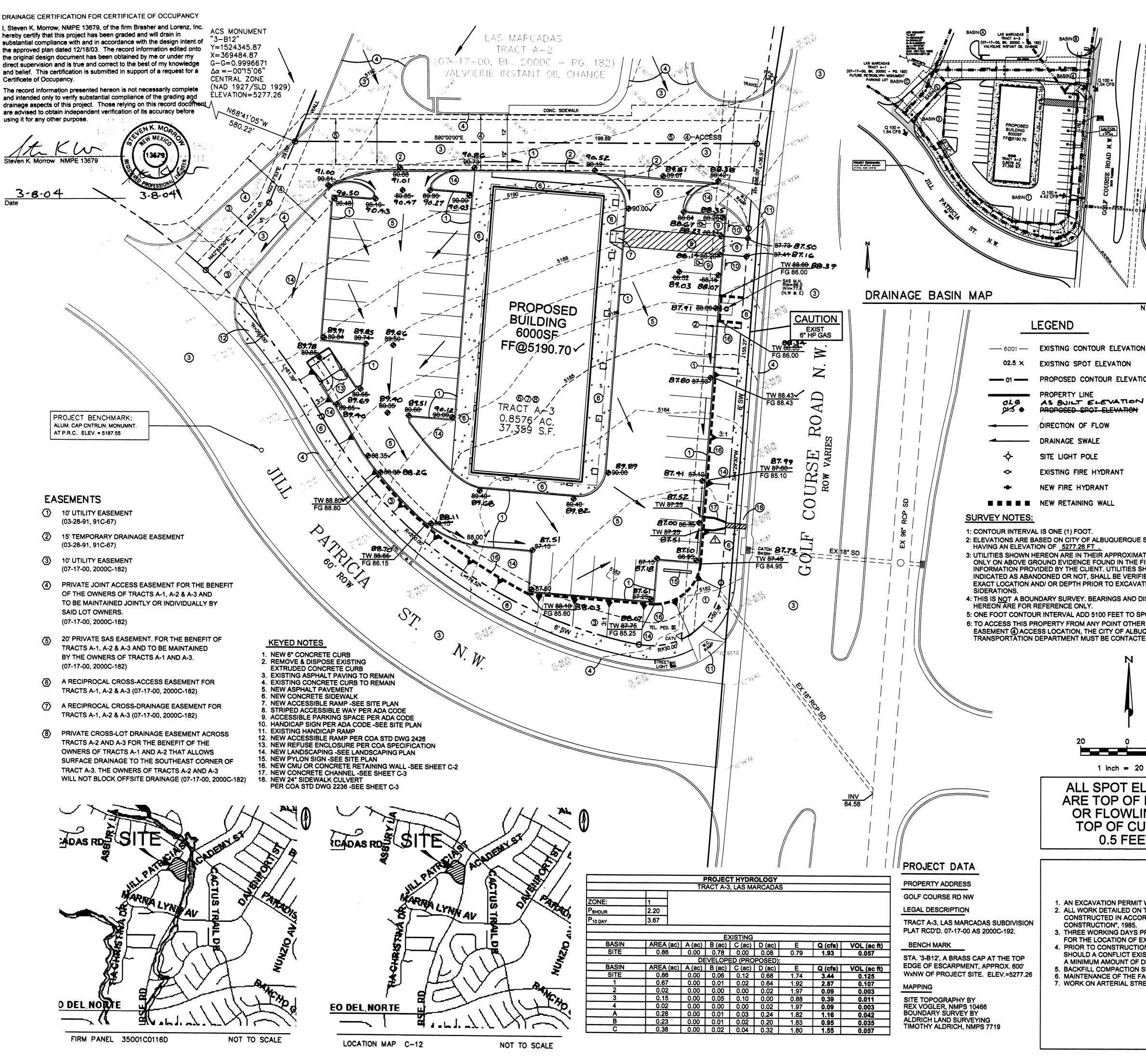
REVISION DATE



8-26-03

SHEET NUMBER





GRADING AND DRAINAGE PLAN

PURPOSE AND SCOPE

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual. this Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the construction of a 6,000-sf office building, located on Golf Course NW at Jill Patricia NW. Proposed site improvements include paving, landscaping, utility, grading, and drainage improvements.

EXISTING CONDITIONS

The project site is approximately 0.86-acres in size and is located on Golf Course NW, at Jill Patricia NW. The project site is particularly described as Tract A-3, Las Marcadas Subdivision. The site is bounded by developed commercial land on the north, undeveloped commercial land on the west, Jill Patricia on the south, and Golf Course Road on the east. Site topography slopes from west to east at approximately 5-percent. The site is impacted by concentrated flowfrom developed Tract A-2 (Valvoline). These of-site flows are conveyed east and west around the site by paving improvements constructed by Valvoline. All on-site runoff drains southeasterly to existing public storm drains located in Golf Course Road. A 15' temporary drainage easement is located along the Golf Course Road frontage pending construction of downstream paving and drainage improvements. Existing downstream improvements allow for the vacation of all interim drainage easements presently encumbering the properties, if desired by the property owner.

As shown by the attached FIRM Panel, a mapped floodplain is located east of the site, along the Golf Course Road corridor. This floodplain has been relocated to constructed public storm drains; therefore, this site is not impacted by a Flood Hazard Zone.

PROPOSED CONDITIONS

As shown by the Plan, the project consists of the construction of a 6,000-sf office building, with associated site improvements. The Plan shows the elevations and detail necessary to properly grade and construct the required paving and drainage improvements. Flow arrows give the direction of drainage flows and the project hydrology is abulated for both existing and proposed conditions.

Drainage management criteria for the site was established by the Drainage Report for Las Marcadas Subdivision 1993, which was later updated by the Grading and Drainage Report for Golf Course Road Commercial, prepared by Mark Goodwin & Associates, August 31, 2000. The Masterplans allow free discharge from the site to the perimeter streets and the 96-inch public storm drain located in Golf Course Road.

The plan proposes to free discharge on-site and off-site flows per the Masterplan. Off-site basin "A", representing a portion of the Valvoline site will drain into the site through the west entry. Basin "A" will combine with on-site Basin "1" at a new concrete channel with sidewalk culvert at the southeast corner of the site. Off-site Basin "B" will combine with on-site Basin "4", draining to Golf Course Road through the east drive. Off-site Basin "C", representing the future Petroglyph Monument parking lot will combine with on-site Basin "2" draining to Jill Patricia through the west drive. On-site Basin "3" represents the perimeter landscaping, which drains to the perimeter streets.

EROSION CONTROL

Since the disturbed area is determined to be less than 1.0-acres a Storm Water Pollution Prevention Plan and Notice of Intent are not required. However, temporary erosion control will be required during the construction phase to protect downstream property and improvements from sediment and uncontrolled runoff. This Plan (see Sheet C-3) recommends the placement of earthen berms or silt fencing along the construction boundaries to mitigate sediment deposition into the adjoining properties and public streets. It is the Contractor's responsibility to properly maintain these facilities during the construction phase of the project.

CALCULATIONS

Calculations are provided which define the 100-year/6 hour design storm falling with the project area under existing and proposed condition. Hydrology is per "Section 22.2, Part A, DPM, Vol 2" updated July 1997.

SURVEY NOTES:

1: CONTOUR INTERVAL IS ONE (1) FOOT.

LEGEND

EXISTING SPOT ELEVATION

PROPOSED CONTOUR ELEVATION

AS BUILT ELEVATION

PROPOSED SPOT ELEVATION

DIRECTION OF FLOW

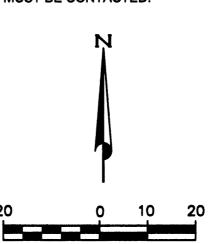
DRAINAGE SWALE

SITE LIGHT POLE

EXISTING FIRE HYDRANT

NEW FIRE HYDRANT

- 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "3-B12", HAVING AN ELEVATION OF 5277.26 FT .
- 3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-
- 4: THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN
- HEREON ARE FOR REFERENCE ONLY.
- 5: ONE FOOT CONTOUR INTERVAL ADD 5100 FEET TO SPOT ELEV'S. 6: TO ACCESS THIS PROPERTY FROM ANY POINT OTHER THAN EASEMENT (4) ACCESS LOCATION, THE CITY OF ALBUQUERQUE TRANSPORTATION DEPARTMENT MUST BE CONTACTED.



1 inch = 20 ft.

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT OR FLOWLINE. FOR TOP OF CURB ADD 0.5 FEET.

DRAINAGE PLAN NOTES

- 1. BLi recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design
- 2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
- 3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
- 4. This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation/structural design,
- 5. Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
- 6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
- 7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
- 8. All spot elevations are top of pavement unless noted otherwise. noted otherwise
- 9. This is not a boundary survey. Apperent property comers are shown for orientation only. Boundary data shown is from previous survey referenced hereon.

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF WAY NOTICE TO CONTRACTOR

- AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1985.
- 3. THREE WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234 FOR THE LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE 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 TRAFFIC/STREET USE.
- 3. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

CITY INSPECTOR MATT CLINE SIGNED OFF ON THE PERMIT AND SUBMITTED IT TO KRYSTAL METRO IN CITY HYDROLOGY.

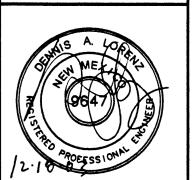
INSPECTOR

OREI EERS

Ž

SUBDIVISION LAN

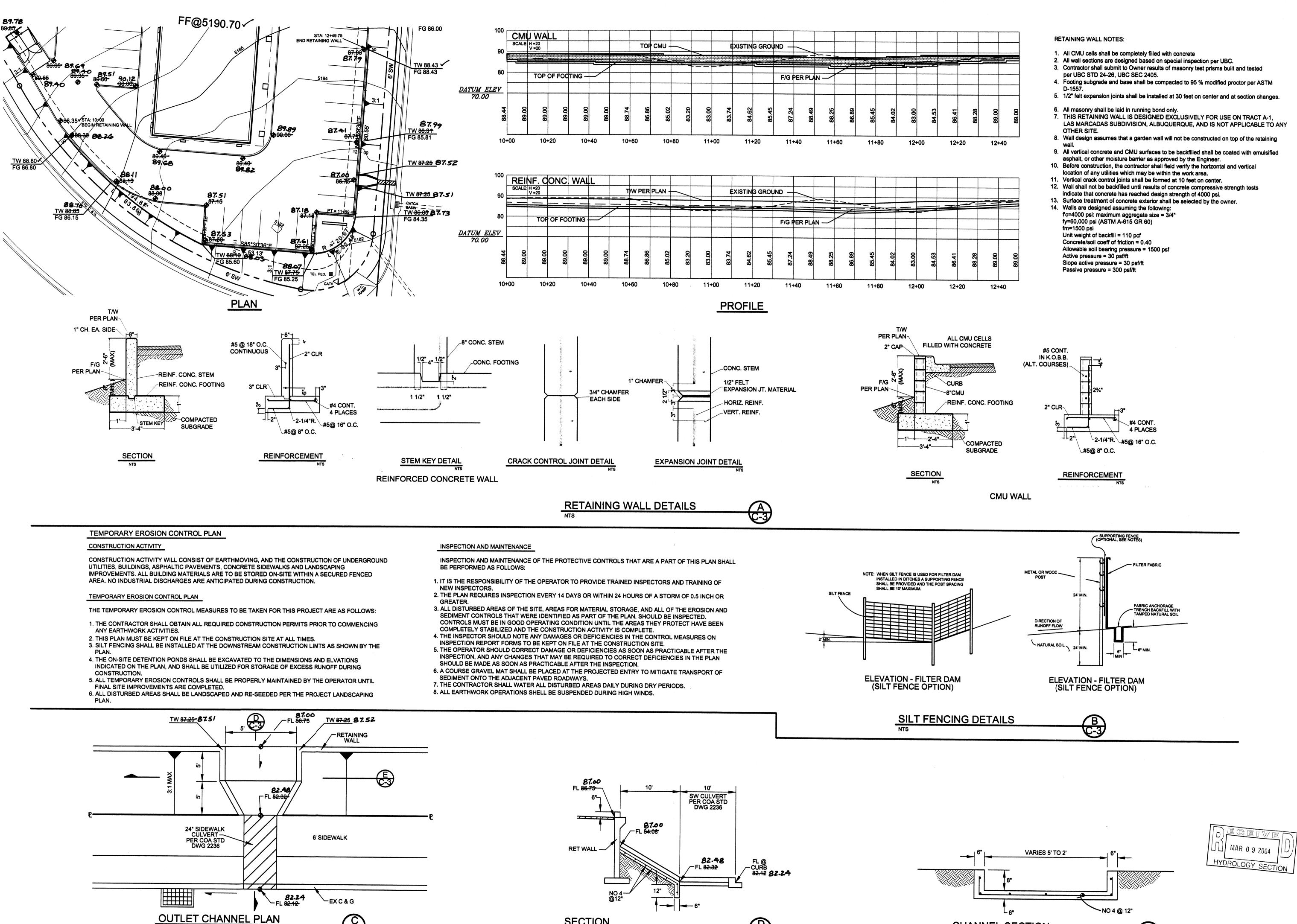
REVISION DATE REMOVED D.I. ADD CHANNEL





DATE 12-18-03

SHEET NUMBER



SECTION

- LAS MARCADAS SUBDIVISION, ALBUQUERQUE, AND IS NOT APPLICABLE TO ANY

BRA CONSL

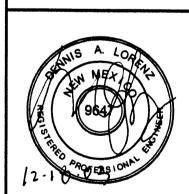
LOREN

∞ 8

SHER ULTING E

MARCADAS SUBDIVISION RAINAGE DETAILS NEW MEXICO TRACT A-3, LAS MAGRADING AND DRAALBUQUERQUE, N

REVISION DATE



DATE 12-18-03

SHEET NUMBER

C-3

CHANNEL SECTION