

# CITY OF ALBUQUERQUE



June 22, 2007

Steven J. Metro, P.E.  
**Wilson & Company**  
4900 Lang Ave  
Albuquerque, NM 87109

**RE: Paradise View Subdivision (B10/D001)**  
**Engineers Certification for Release of Financial Guaranty**  
**Engineers Stamp dated 3/13/05**  
**Engineers Certification dated 6/20/07**

Based upon the information provided in your Engineer's Certification Submittal dated 6/21/07, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

P.O. Box 1293

If you have any questions, you can contact me at 924-3695.

Sincerely,

Albuquerque

A handwritten signature in cursive script, reading "Curtis A. Cherne".

Curtis A. Cherne, E.I.  
Engineering Associate-Hydrology  
Development and Building Services

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

C: Marilyn Maldonado  
File

SITE LOCATION

THE PROJECT IS LOCATED SOUTH OF ROBERSONS RIO VISTA SUBDIVISION UNITS 1 & 16 AND IS BOUNDED BY PARADISE BOULEVARD TO THE NORTH, ST. JUDIE CHURCH TO THE EAST AND SUNDANCE ESTATES SUBDIVISION TO THE WEST AND SOUTH. JAMES MONROE MIDDLE SCHOOL IS WEST OF THE 80' FINGER OF SUNDANCE ESTATES THAT EXTENDS TO PARADISE BLVD.

METHODOLOGY

SECTION 22.2 OF THE CITY OF ALBUQUERQUE DPM WAS FOLLOWED TO CALCULATE THE DESIGN VOLUME. THE CHAMISA PROJECT LYONS DIVERSION/ WEST PIEDRAS MARCADAS STORM DRAIN REPORT WAS REFERENCED IN DESIGN.

EXISTING CONDITIONS

THE EXISTING TOPOGRAPHY SLOPES WITH AVERAGE GRADES BETWEEN 2% TO 8%. THE PROPOSED DEVELOPMENT IS FOUND ON FEMA FLOOD INSURANCE RATE MAP NUMBER 3500020001 (SEE FLOOD MAP).

REVIEW OF AVAILABLE SOILS INFORMATION INDICATED SANDY SOILS OF THE ALEMEDA (AmB) AND AKELA (AkC) ASSOCIATION. THE DESCRIPTION OF THIS SERIES IS FOUND IN THE USDA NATURAL RESOURCES CONSERVATION SERVICE SOIL MAPPING OF BERNALILLO COUNTY (SEE SOILS MAP). THE SOILS ARE WELL DRAINED LOAMY AND COBBLY SOILS THAT ARE SUBJECT TO EROSION. THESE MODERATELY PERMEABLE SOILS OVERLAY BASALT ROCK THAT IS 1-15 FEET DEEP.

PROPOSED CONDITIONS

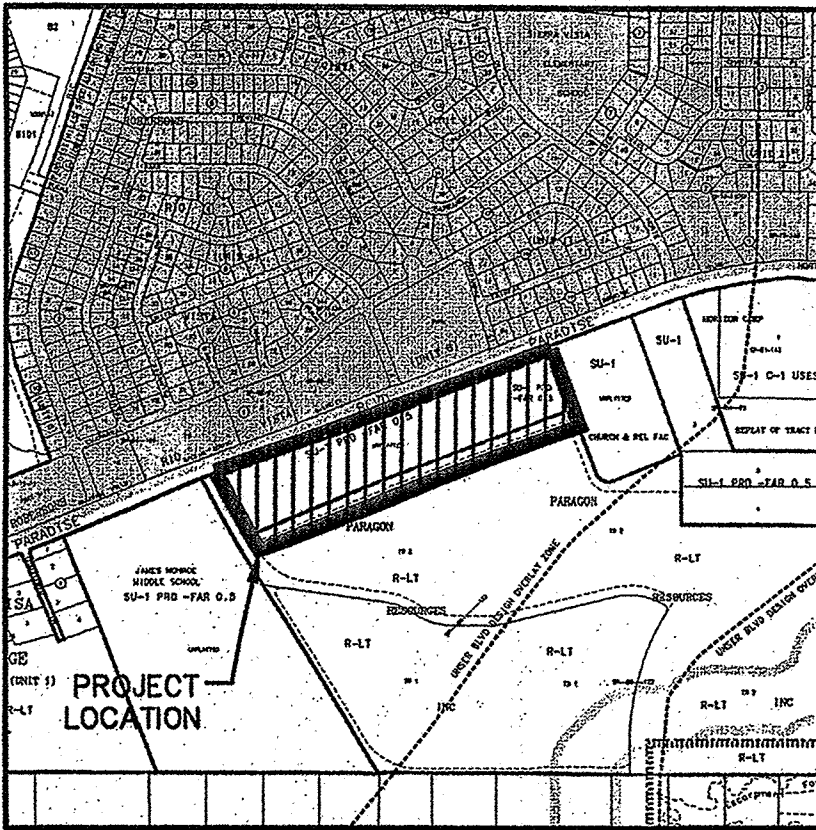
THE PURPOSE OF THIS GRADING AND DRAINAGE PLAN IS TO SECURE A GRADING PERMIT FOR THE DRAINAGE FACILITIES FOR PARADISE VIEW SUBDIVISION. THIS GRADING AND DRAINAGE PLAN COMPLIES WITH THE CHAMISA PROJECT LYONS DIVERSION/WEST PIEDRAS MARCADAS STORM DRAIN REPORT, DATED OCTOBER 2004.

HYDROLOGY NOTES

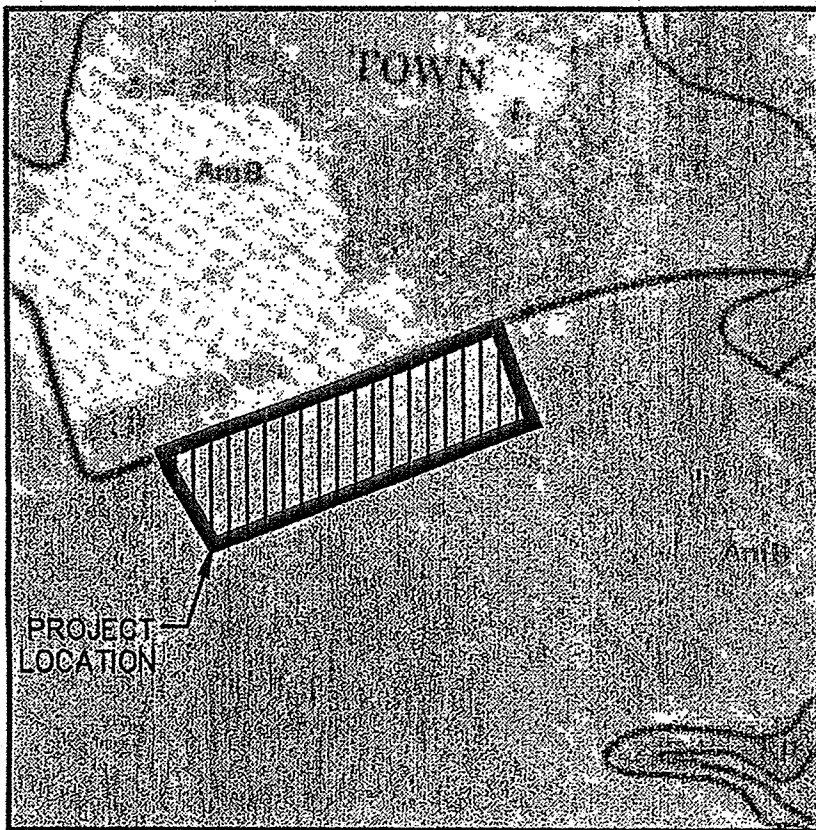
PRECIPITATION ZONE: 1  
BASIN: 1  
TOTAL TRACT AREA = 10.0 Ac  
LAND TREATMENT AREAS WITHIN TRACT  
CONTRIBUTING TO RETENTION POND:  
15% LAND TREATMENT B = 4.0 Ac  
85% LAND TREATMENT D = 6.0 Ac  
PEAK DISCHARGE  $Q_{p100} - 6HR = (AREA)(Q_b) + (AREA)(Q_p)$   
 $= (4.0)(2.03cfs/Ac) + (6.0)(4.37cfs/Ac)$   
AP.1 = 34.34 cfs

BASIN: 2  
TOTAL TRACT AREA = 14.0 Ac  
LAND TREATMENT AREAS WITHIN TRACT  
CONTRIBUTING TO RETENTION POND:  
15% LAND TREATMENT B = 6.0 Ac  
85% LAND TREATMENT D = 8.0 Ac  
PEAK DISCHARGE  $Q_{p100} - 6HR = (AREA)(Q_b) + (AREA)(Q_p)$   
 $= (6.0)(2.03cfs/Ac) + (8.0)(4.37cfs/Ac)$   
AP.2 = 47.14 cfs

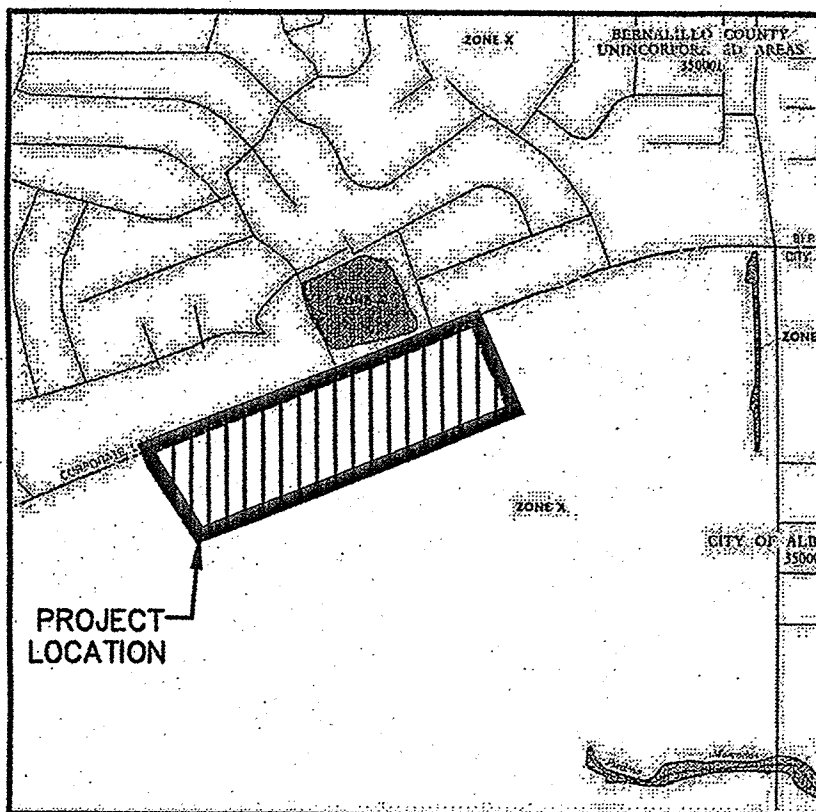
| CONTROL STATION DATA              |                                 |
|-----------------------------------|---------------------------------|
| Name of Station                   | B-10                            |
| Establishing Agency               | City of Albuquerque, New Mexico |
| Station                           | 15                              |
| Section                           | 15                              |
| Range                             | 2E                              |
| Map No.                           | C-30                            |
| ELEVATION DATA                    |                                 |
| SPRINT LEVEL ELEVATION (SLD 1025) | Point 5390.130                  |
| TRIGONOMETRIC ELEVATION           | Point 1692.513                  |



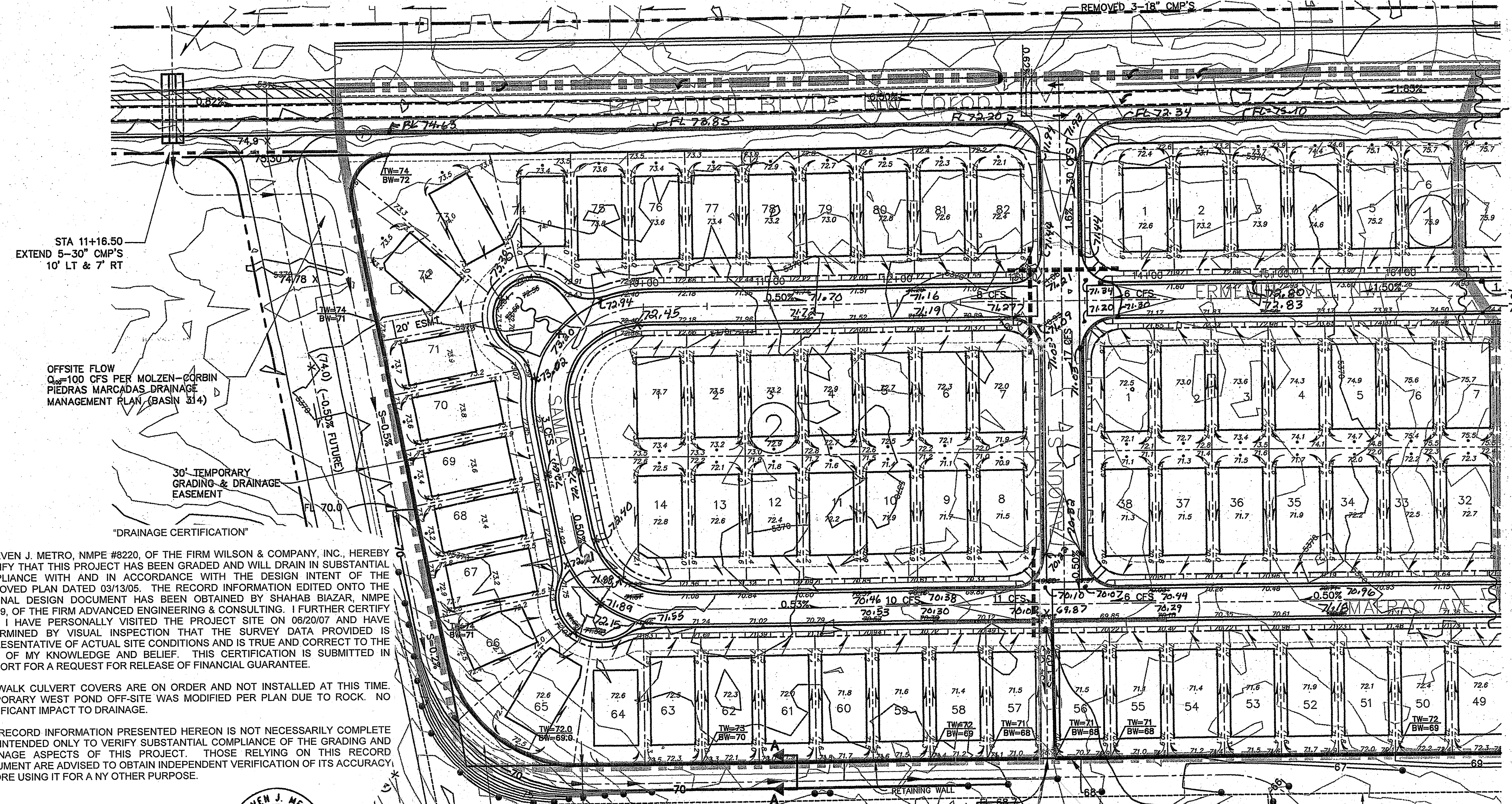
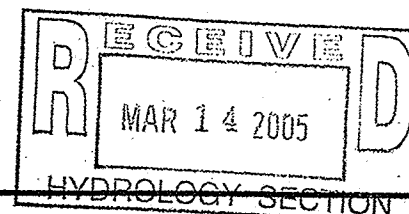
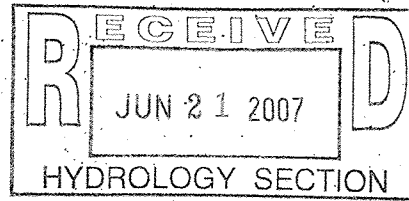
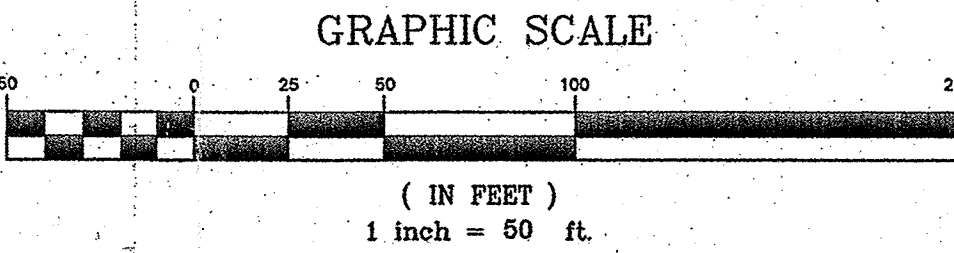
LOCATION MAP  
ZONE ATLAS MAP NO.B-10 & 11



SOILS MAP  
REFERENCE: SCS BERNALILLO COUNTY  
SOIL SURVEY SHEET NO. 10



FLOOD INSURANCE MAP  
REFERENCE: FLOOD INSURANCE STUDY  
PANEL 1

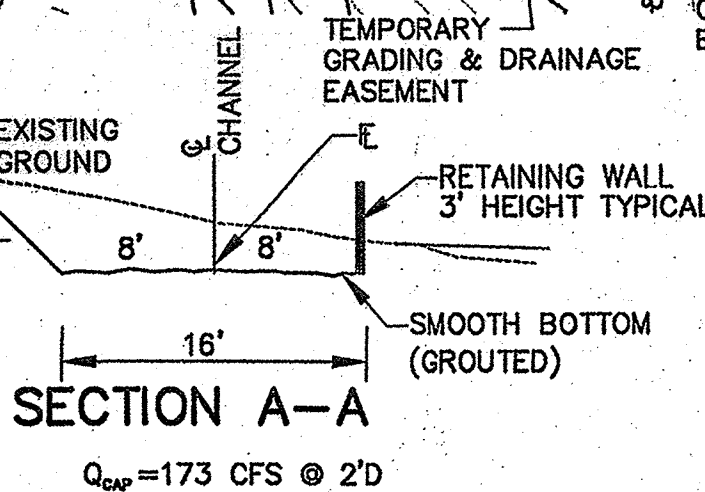


I, STEVEN J. METRO, NMPE #8220, OF THE FIRM WILSON & COMPANY, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 03/13/05. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY SHAHAB BIAZAR, NMPE #13479, OF THE FIRM ADVANCED ENGINEERING & CONSULTING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 06/20/07 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT FOR A REQUEST FOR RELEASE OF FINANCIAL GUARANTEE.

SIDEWALK CULVERT COVERS ARE ON ORDER AND NOT INSTALLED AT THIS TIME. TEMPORARY WEST POND OFF-SITE WAS MODIFIED PER PLAN DUE TO ROCK. NO SIGNIFICANT IMPACT TO DRAINAGE.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

STEVEN J. METRO, NMPE #8220  
6-20-07  
DATE

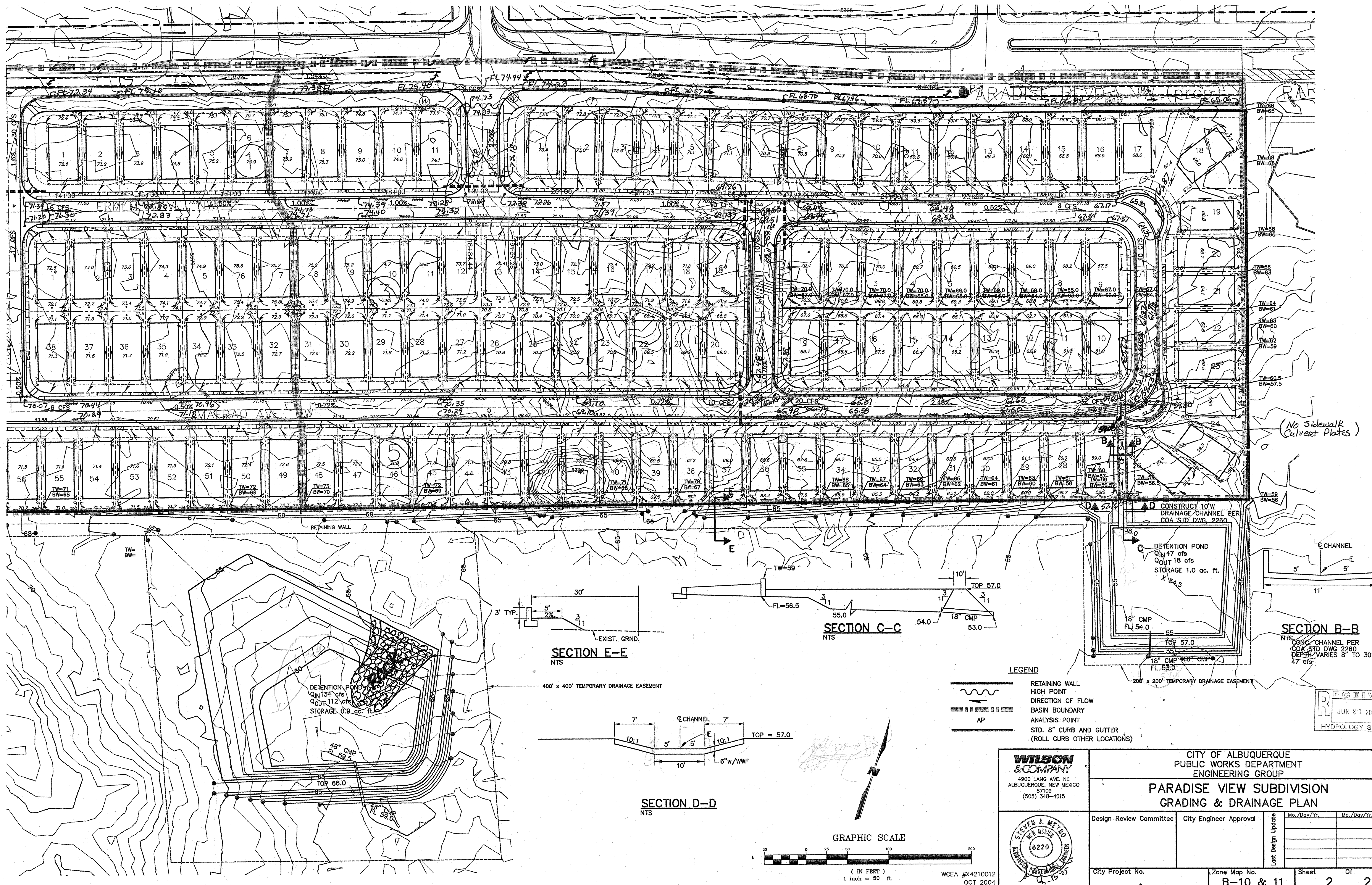


- LEGEND
- HIGH POINT
  - DIRECTION OF FLOW
  - BASIN BOUNDARY
  - ANALYSIS POINT
  - STD. 8" CURB AND GUTTER (ROLL CURB OTHER LOCATIONS)

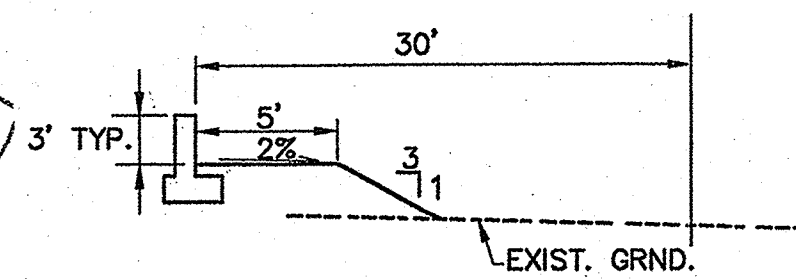
WILSON & COMPANY  
4900 LANG AVE. NE  
ALBUQUERQUE, NEW MEXICO  
87109  
(505) 348-4000



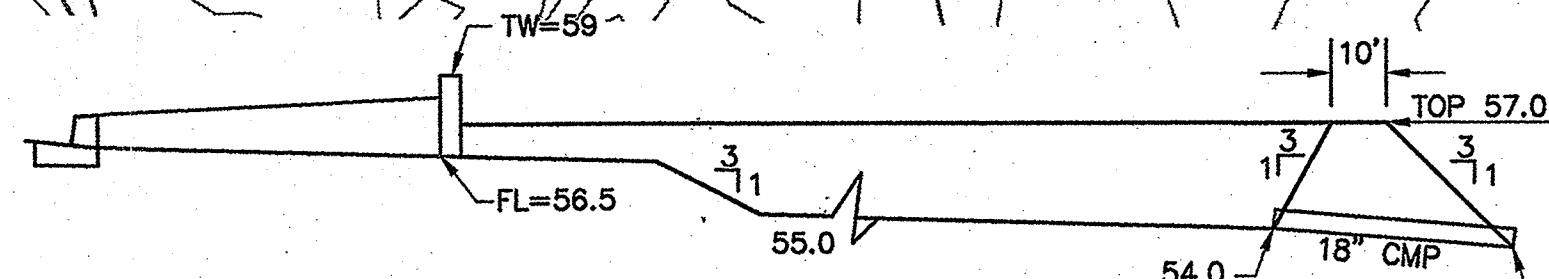
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP |                        |
|---------------------------------------------------------------------|------------------------|
| PARADISE VIEW SUBDIVISION<br>GRADING & DRAINAGE PLAN                |                        |
| Design Review Committee                                             | City Engineer Approval |
| City Project No.                                                    | Zone Map No.           |
|                                                                     | B-10 & 11              |
| Sheet                                                               | Of                     |
| 1                                                                   | 2                      |



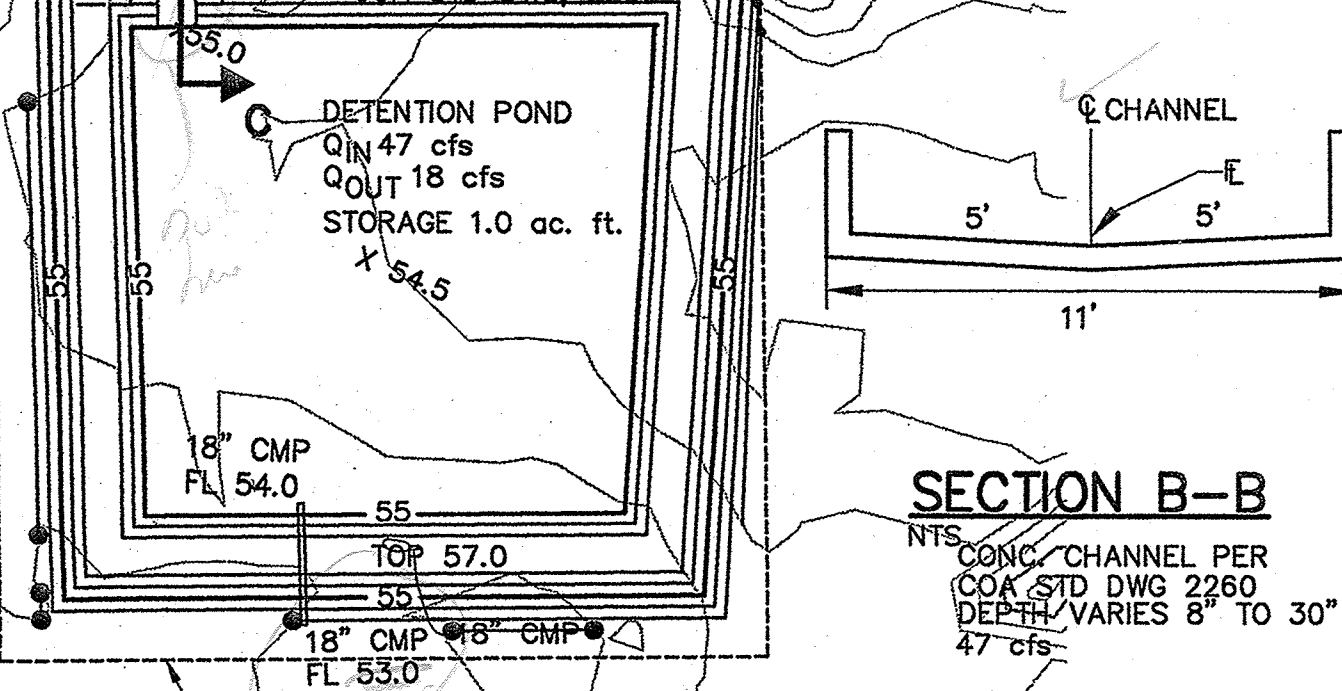
SECTION E-E  
NTS



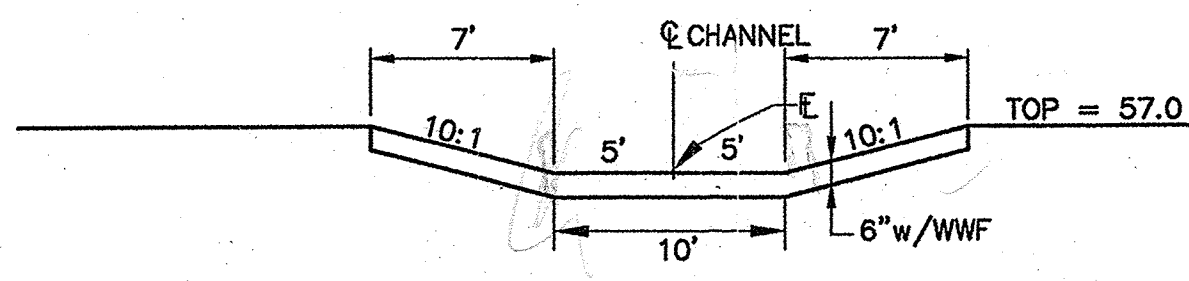
SECTION C-C  
NTS



SECTION B-B  
NTS

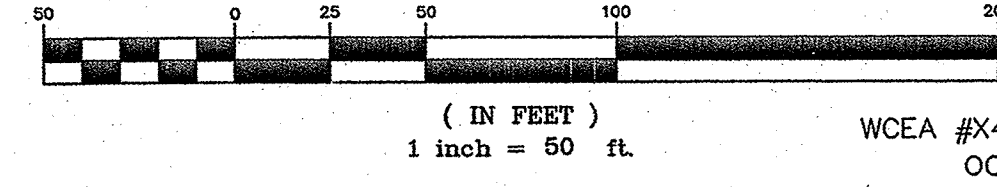


SECTION D-D  
NTS



- LEGEND
- RETAINING WALL
  - HIGH POINT
  - DIRECTION OF FLOW
  - AP
  - BASIN BOUNDARY
  - ANALYSIS POINT
  - STD. 8" CURB AND GUTTER
  - (ROLL CURB OTHER LOCATIONS)

GRAPHIC SCALE



RECEIVED  
JUN 21 2007  
HYDROLOGY SECTION

**WILSON & COMPANY**  
4900 LANG AVE. NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 348-4015

STEVEN J. McFARLAND  
REGISTERED PROFESSIONAL ENGINEER  
8220

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

**PARADISE VIEW SUBDIVISION  
GRADING & DRAINAGE PLAN**

|                         |                        |             |             |
|-------------------------|------------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
|                         |                        |             |             |
| City Project No.        | Zone Map No.           | Sheet       | Of          |
|                         | B-10 & 11              | 2           | 2           |