CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

May 22, 2015

Ronald A. Witherspoon, R.A.
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, 6901 Glenrio Rd. NW, PHASE 5 & 6 ONLY
Certificate of Occupancy – Transportation Development
Architect's Stamp dated 10-09-13 (J10-D043)
Certification dated 05-13-15

Dear Mr. Witherspoon,

Based upon the information provided in your submittal received 05-18-15 , Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy for Phase 5 & 6 Only (Permit # 201392689). This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

Shahab Biazar, P.E.
City Engineer, Planning Dept.
Development Review Services

c: File
CO Clerk
mao

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

May 22, 2015

Ronald A. Witherspoon, R.A.
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, 6901 Glenrio Rd. NW, PHASE 4 ONLY
Certificate of Occupancy – Transportation Development
Architect's Stamp dated 10-09-13 (J10-D043)
Certification dated 05-11-15

Dear Mr. Witherspoon,

Based upon the information provided in your submittal received 05-11-15 , Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy for Phase 4 Only (Permit # 201392687). This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

Shahab Biazar, P.E.
City Engineer, Planning Dept.
Development Review Services

c: File
CO Clerk
mao

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New Mexico 87103
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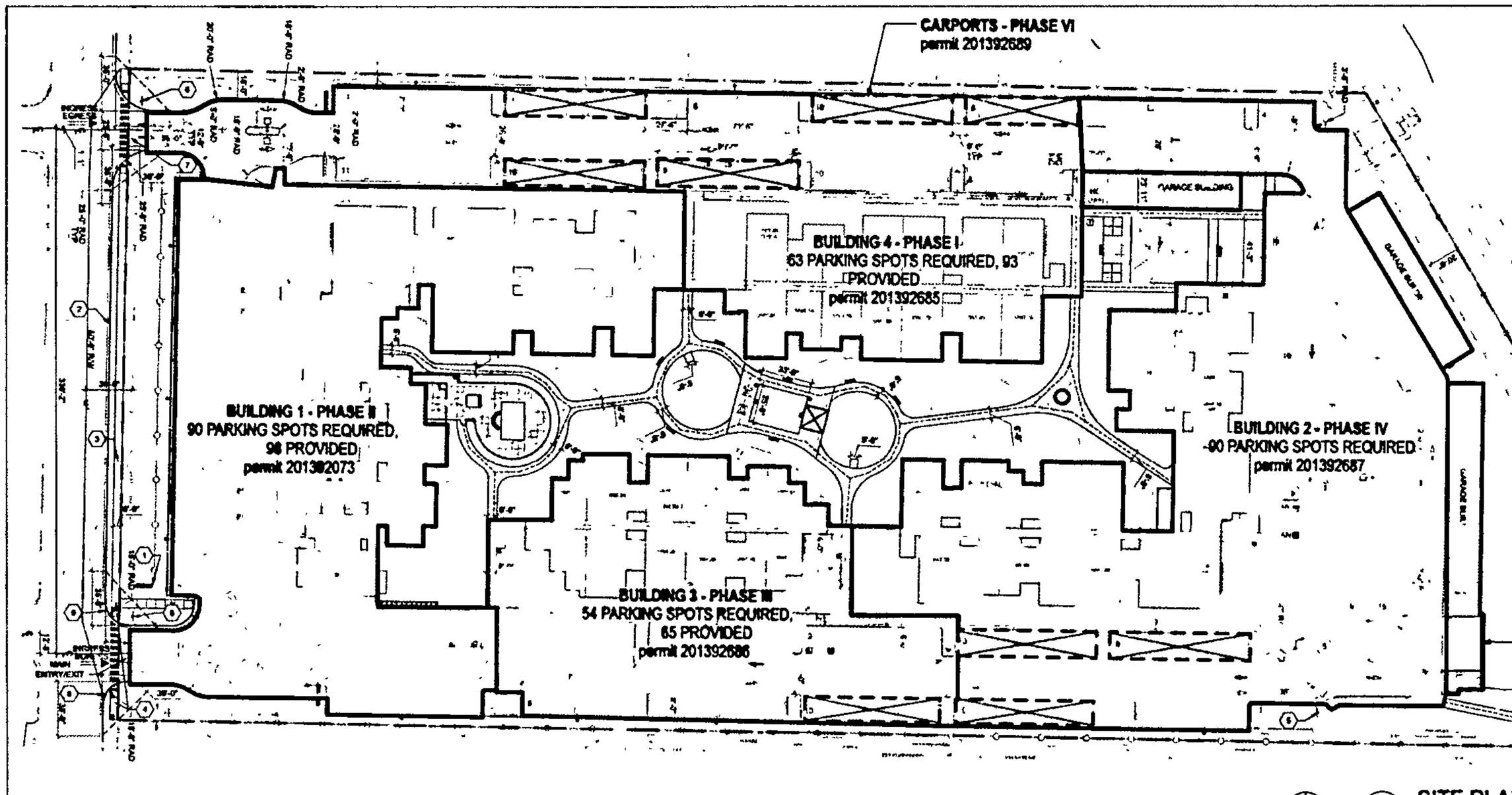
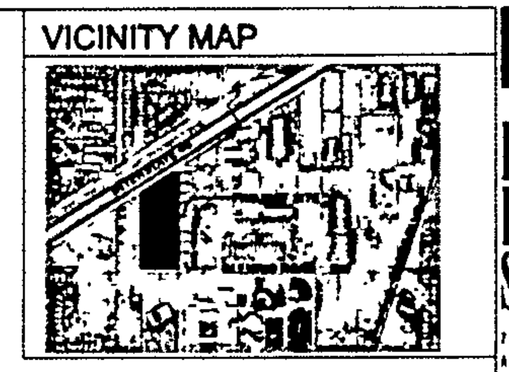




PHASING PLAN NOTES:

-EACH PHASE IS TO INCLUDE CURBS, PAVING, STRIPING, INDICATED PEDESTRIAN WALKWAYS, AND ANY OTHER FEATURES AS NOTED IN THE CIVIL DRAWINGS, ESC PLAN, AND RELATED DOCUMENTATION.

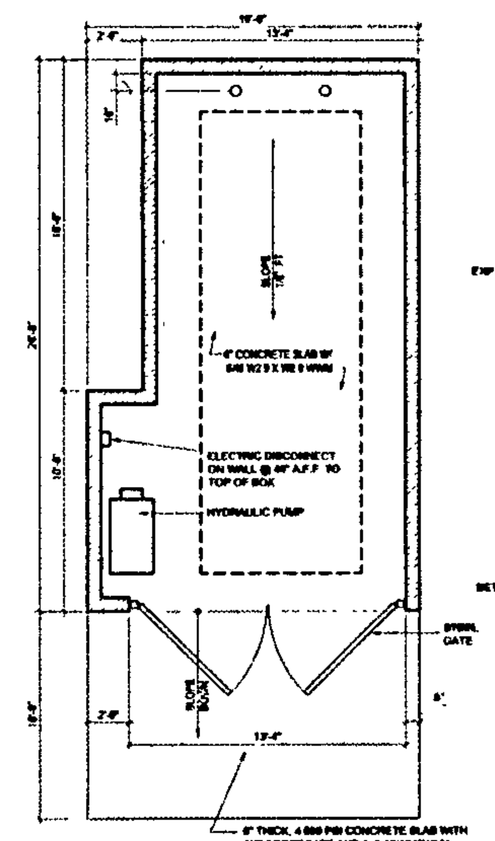
-MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES, ROADBASE FOR PERIMETER ROAD TO BE INPLACE FOR PHASE 1 CO

-ALL FIRE HYDRANTS TO BE INSTALLED AND ACTIVE FOR PHASE I CO

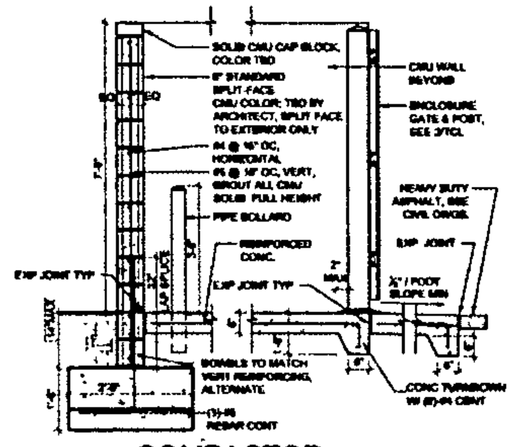
-TEMPORARY DUMPSTERS FOR RESIDENTS TO BE IN PLACE AT EACH PHASE, LOCATE WITHIN REASONABLE WALKING DISTANCE FROM EACH BUILDING

-STAGE MATERIALS AND EQUIPMENT CLEAR OF EMERGENCY VEHICLE ACCESS AISLE

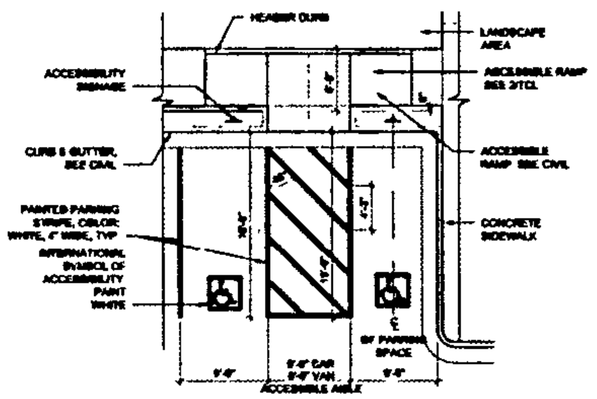
-BALANCE OF SITE WORK, OUTDOOR AMENITIES, PEDESTRIAN WALKWAYS, LANDSCAPE, AND COMPACTOR TO BE COMPLETED AT FINAL PHASE



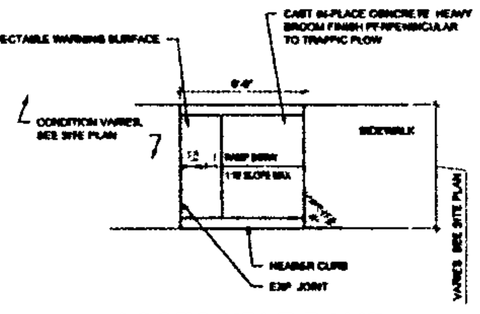
1 COMPACTOR ENCLOSURE
NTS



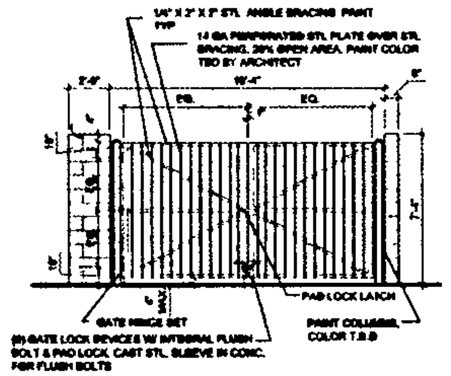
4 COMPACTOR ENCLOSURE SECTION
NTS



5 ACCESSIBLE PARKING
NTS



2 ACCESSIBLE RAMP
NTS



3 COMPACTOR ENCLOSURE GATE
NTS

LANDSCAPING AND SIGNING WILL NOT INTERFERE WITH CLEAR SIGHT REQUIREMENTS. SIGNES, WALLS, TREES & SHRUBS BETWEEN 3'-6" AND 8'-6, FROM THE GUTTER PAN WILL NOT BE ACCEPTABLE IN THIS AREA. SEE LANDSCAPE PLAN.

BUILDING DATA

BUILDING 1- RESIDENTIAL & COMMUN SPACE	
FIRST FLOOR (+ COMMUNITY BUILDING)	21,916 SF
SECOND FLOOR	19,712 SF
THIRD FLOOR	16,729 SF
TOTAL BUILDING AREA	58,357 SF
BUILDING 2-RESIDENTIAL	
FIRST FLOOR	19,929 SF
SECOND FLOOR	19,929 SF
THIRD FLOOR	19,629 SF
TOTAL BUILDING AREA	59,832 SF
BUILDING 3- RESIDENTIAL	
FIRST FLOOR	10,984 SF
SECOND FLOOR	10,984 SF
THIRD FLOOR	10,984 SF
TOTAL BUILDING AREA	31,896 SF
BUILDING 4- RESIDENTIAL	
FIRST FLOOR	13,983 SF
SECOND FLOOR	13,583 SF
THIRD FLOOR	13,983 SF
TOTAL BUILDING AREA	40,510 SF
GARAGE BUILDING 1	3,121 SF
+ MAINTENANCE	670 SF
GARAGE BUILDING 2	2,846 SF
GARAGE BUILDING 3	2,466 SF
PROJECT TOTALS	196,446 SF

PARKING REQUIREMENT

TOTAL PARKING REQUIRED PER CITY OF ALBUQUERQUE ZONING CODE.

TOTAL PARKING REQUIRED @ 1.5 PARKING SPACES PER BATH: 327 SPACES
TOTAL PARKING PROVIDED: 377 SPACES

HANDICAPPED SPACES REQUIRED (301-500): 12
HANDICAPPED SPACES PROVIDED: 14

MOTORCYCLE SPACES REQUIRED (301-500): 6
MOTORCYCLE SPACE PROVIDED: 6

TOTAL BICYCLE PARKING REQUIRED @ 1 SPACE PER 2 DU: 99 SPACES
TOTAL BICYCLE PARKING PROVIDED OUTSIDE BUILDINGS: 69
TOTAL BICYCLE PARKING PROVIDED INSIDE BUILDINGS WITHIN UNITS BALCONIES: 100

SHEET KEYED NOTES

1. MONUMENT SIGN
2. STANDARD CURB AND GUTTER PER COA STD DWG #2415A
3. CONSTRUCT 6" CONCRETE SIDEWALK PER COA STD DWG #2430
4. CONSTRUCT 5'X5' WIDE LANDING AREA (AT 2% MAX CROSS SLOPE IN EVERY DIRECTION) AT BOTTOM OF RAMPS
5. CROSSWALK SIGN WITH NO VISUAL OBSTRUCTIONS
6. STOP SIGN
7. SECONDARY ENTRY
8. BUILD NEW PRIVATE ENTRY PER COA STD DWG #2426 WITH UNIDIRECTIONAL RAMPS, INCLUDING 2' WIDE BY FULL WIDTH TRUNCATED DOMES (DESIGN PER ADA GUIDELINES).
9. 10' RADIUS AT CURB TO PRESERVE EXISTING INLET

LEGEND

- 30' REAR YARD SETBACK
- PROPERTY LINE
- TRAFFIC ARROW
- ENGINEERED WOOD FIBER
- LANDSCAPE AREA
- HEAVY DUTY ASPHALT
- MC MOTORCYCLE PARKING
- FIRE HYDRANT
- TRANSFORMER
- HANDICAP ACCESSIBLE
- HANDICAP ACCESSIBLE ROUTE
- 6' HT. ORNAMENTAL FENCING

SITE FURNISHINGS

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

- LIGHT POLE, SEE ELECTRICAL
- BBQ GRILL
- PICNIC TABLE
- PICNIC TABLE
- 6' BENCH
- LITTER RECEPTACLE
- BICYCLE RACK
- SHADE STRUCTURE
- KEY PAD

RECEIVED
FEB 11 2015
DEVELOPMENT SECTION

architects
interiors
landscape
planners
engineers
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761 4222
dps@dpsdesign.org

ARCHITECT

STATE OF NEW MEXICO
RONALD A. DEKKER
REGISTERED ARCHITECT

ENGINEER

PROJECT

Glenrio Housing
Albuquerque, NM

REVISIONS

DRAWN BY	LJ S
REVIEWED BY	RV
DATE	10/8/201
PROJECT NO	12-80

DRAWING NAME

TRAFFIC CIRCULATION LAYOUT

PHASING PLAN

SHEET NO

TCL

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

April 3, 2015

Ronald A. Witherspoon, R.A.
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, 6901 Glenrio Rd. NW, BLDG 3, PHASE 3 ONLY
Certificate of Occupancy – Transportation Development
Architect's Stamp dated 10-09-13 (J10-D043)
Certification dated 03-24-15

Dear Mr. Witherspoon,

Based upon the information provided in your submittal received 04-01-15 , Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy for Phase 2 Only (Permit # 20139207301). This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

Racquel M. Michel, P.E.
Senior Engineer, Planning Dept.
Development Review Services

c: File
CO Clerk
mao

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

March 6, 2015

Ronald A. Witherspoon, R.A.
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, 6901 Glenrio Rd. NW, BLDG 4, PHASE 2 ONLY
Certificate of Occupancy – Transportation Development
Architect's Stamp dated 10-09-13 (J10-D043)
Certification dated 03-02-15

Dear Mr. Witherspoon,

Based upon the information provided in your submittal received 03-02-15 , Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy for Phase 2 Only (Permit # 201392073). This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

Racquel M. Michel, P.E.
Senior Engineer, Planning Dept.
Development Review Services

c: File
CO Clerk
mao

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 2/5/15 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 OF A REQUEST FOR Certificate of Occupancy for Phase 2 (permit #201392073).

-Phase 2 only (permit 201392073), as noted on the recorded drawing TCL Dated 10-09-13
-Sidewalk culvert grates have been corrected, verified 3.2.2015

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

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
3/3/15
REGISTERED ARCHITECT

Signature of Engineer or Architect

DEKKER PERICH SABATINI
ARCHITECTURE DESIGN INSPIRATION
7601 Jefferson NE, Suite 100, Albuquerque, NM 87109 / 505.761.9700 / dpsdesign.org

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Glenrio Apartments Building Permit #: 201392686 City Drainage #: J10D043

DRB#: EPC#: Work Order#:

Legal Description:

City Address: Glenrio Rd. Abq. NM

Engineering Firm: Contact:

Address:

Phone#: Fax#: E-mail:

Owner: Contact:

Address:

Phone#: Fax#: E-mail:

Architect: D/P/S Contact: Zac Hulme

Address: 7601 Jefferson sq. NW

Phone#: 975-7600 Fax#: E-mail: zach@dpsdesign.co

Surveyor: Contact:

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- X TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

RECEIVED
MAR 24 2015
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 3.24.15 By: Zac Hulme

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature, location, and scope to the proposed development defines the degree of drainage detail One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Verbal N, will re-submit when site is ready

TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 3/24/15 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 OF A REQUEST FOR Certificate of Occupancy for Phase 3 (permit #201392686).

-Phase 3 only (permit 201392686), as noted on the recorded drawing TCL Dated 10-09-13

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

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
3/24/15
REGISTERED ARCHITECT

Signature of Engineer or Architect

RECEIVED
MAR 24 2015
LAND DEVELOPMENT SECTION

DEKKER PERICH SABATINI
ARCHITECTURE DESIGN INSPIRATION
7601 Jefferson NE, Suite 100, Albuquerque, NM 87109 / 505.761.9700 / dpsdesign.org

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Glen Rio Building Permit #: _____ City Drainage #: J10D043

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: 6901 Glen Rio

Engineering Firm: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Owner: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: DRS. Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: Pavilion Contact: _____

Address: _____

Phone#: 505 702-2219 Fax#: _____ E-mail: Jherrison@Pavilionconstruction.com

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- X TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

RECEIVED FEB 11 2015 LAND DEVELOPMENT SECTION

Submitted Not complete until 2/12/15

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 2/11/2015 By: J Harrison

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature, location, and scope to the proposed development defines the degree of drainage detail One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**. Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Zac w/ DPS

Verbal - No did not fix S/W culverts by 2/20

Inspector Mon 2/18 Monica

TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 2/5/15 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 OF A REQUEST FOR Certificate of Occupancy for Phase 2 (permit #201392073).

-Phase 2 only (permit 201392073), as noted on the recorded drawing TCL Dated 10-09-13

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

Signature of Engineer or Architect

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
REGISTERED ARCHITECT
2/9/15

RECEIVED
FEB 11 2015
LAND DEVELOPMENT SECTION

DEKKER PERICH SABATINI
ARCHITECTURE DESIGN INSPIRATION
7601 Jefferson NE, Suite 100, Albuquerque, NM 87109 / 505.761.9700 / dpsdesign.org

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

December 19, 2014

Ronald A. Witherspoon, R.A.
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, 6901 Glenrio Rd. NW, BLDG 4, PHASE 1 ONLY
Certificate of Occupancy – Transportation Development
Architect's Stamp dated 10-09-13 (J10-D043)
Certification dated 12-16-14

Dear Mr. Witherspoon,

Based upon the information provided in your submittal received 12-16-14 and additional information on 12-19-14, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy for Phase 1 Only (Permit # 201392685). This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

Racquel M. Michel, P.E.
Senior Engineer, Planning Dept.
Development Review Services

c: File
CO Clerk

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

December 17, 2014

Ronald A. Witherspoon, R.A.
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, Glenrio Rd NW & I-25
Submittal for Certificate of Occupancy – Transportation Development
Architect's Stamp dated 10-09-13 (J10D043)
Certification dated 12-16-14

Dear Mr. Whitherspoon,

The Letter of Certification submitted on 12-16-14 is not sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). The following items need to be addressed:

- All sidewalk culverts along Glenrio Rd NW need to be placed prior to release of Certificate of Occupancy.
- All curb and gutter along Glenrio Rd NW need to be placed prior to release of Certificate of Occupancy.
- Water has seeped under the truncated dome causing it to loosen at the west entrance on Glenrio and will need to be replaced.
- All City of Albuquerque right of way along Glenrio Rd NW needs to be free of all tripping hazards.

Resubmit acceptable package along with fully completed Drainage Transportation Information Sheet to front counter personnel for log in and evaluation by Transportation. For digital submittal and minor comments and/or repairs, please submit photos and PDF files to rmichel@cabq.gov or mortiz@cabq.gov prior to submittal. If you have any questions, please contact me at (505) 924-3630.

Sincerely,

Racquel M. Michel, P.E.
Senior Engineer, Planning Dept.
Development Review Services

C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 12/15/14 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 OF A REQUEST FOR Certificate of Occupancy for Phase 1 (permit #201392685).

-Phase 1 only (permit 201392685), as noted on the recorded drawing TCL Dated 10-09-13

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

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
REGISTERED ARCHITECT

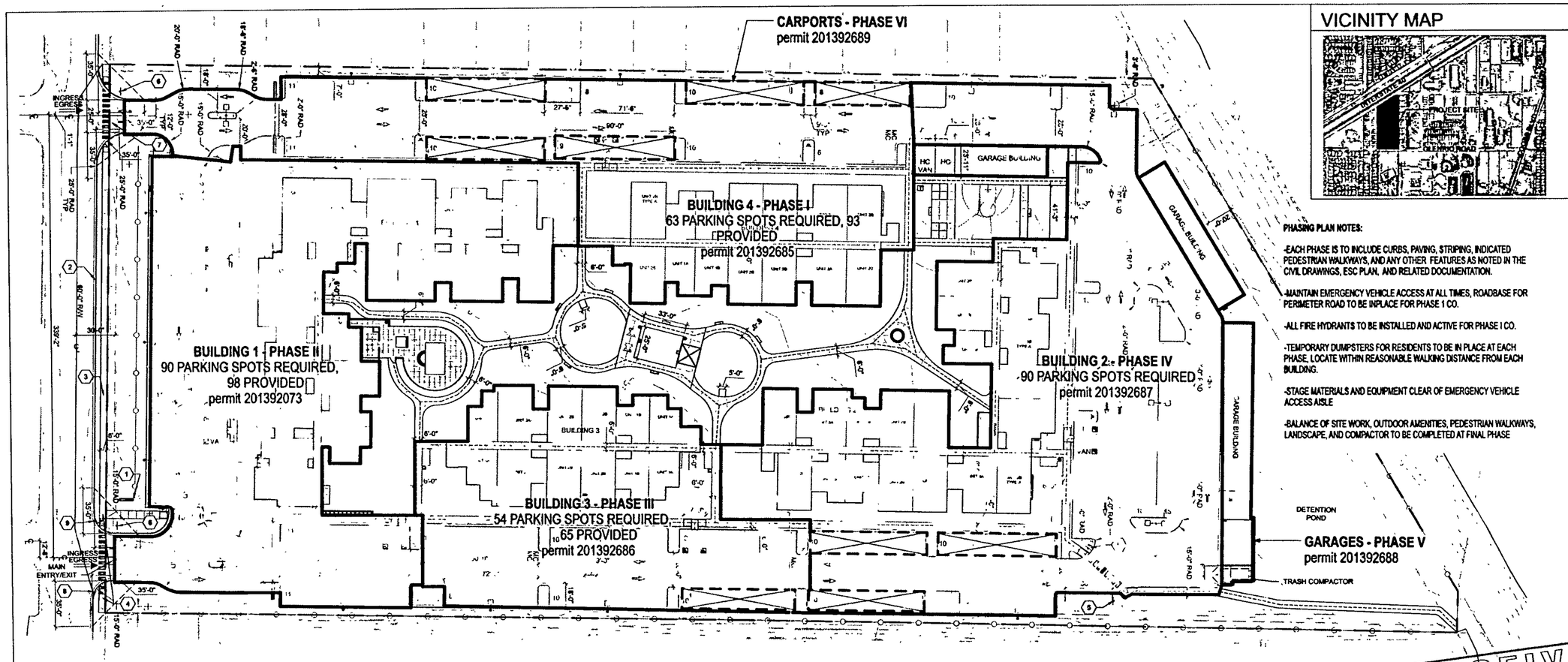
Signature of Engineer or Architect

12/16/14

RECEIVED
DEC 16 2014
LAND DEVELOPMENT SECTION

DEKKER
PERICH
SABATINI
ARCHITECTURE
DESIGN
INSPIRATION

7601 Jefferson NE, Suite 100, Albuquerque, NM 87109 / 505.761.9700 / dpsdesign.org



VICINITY MAP

PHASING PLAN NOTES:

-EACH PHASE IS TO INCLUDE CURBS, PAVING, STRIPING, INDICATED PEDESTRIAN WALKWAYS, AND ANY OTHER FEATURES AS NOTED IN THE CIVIL DRAWINGS, ESC PLAN, AND RELATED DOCUMENTATION.

-MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES, ROADBASE FOR PERIMETER ROAD TO BE INPLACE FOR PHASE 1 CO.

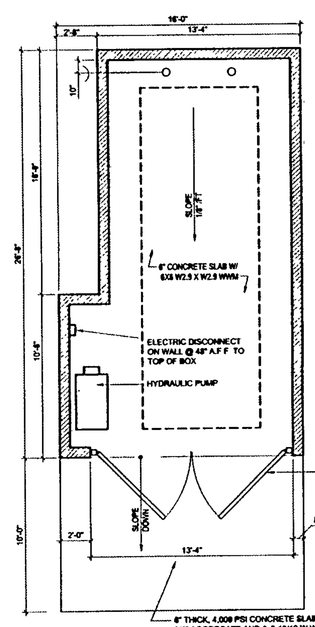
-ALL FIRE HYDRANTS TO BE INSTALLED AND ACTIVE FOR PHASE I CO.

-TEMPORARY DUMPSTERS FOR RESIDENTS TO BE IN PLACE AT EACH PHASE, LOCATE WITHIN REASONABLE WALKING DISTANCE FROM EACH BUILDING.

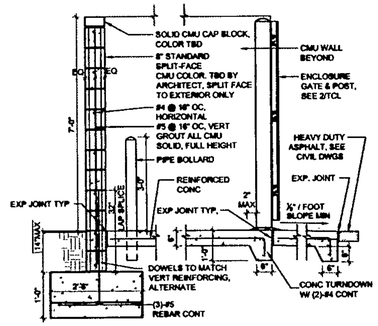
-STAGE MATERIALS AND EQUIPMENT CLEAR OF EMERGENCY VEHICLE ACCESS AISLE

-BALANCE OF SITE WORK, OUTDOOR AMENITIES, PEDESTRIAN WALKWAYS, LANDSCAPE, AND COMPACTOR TO BE COMPLETED AT FINAL PHASE

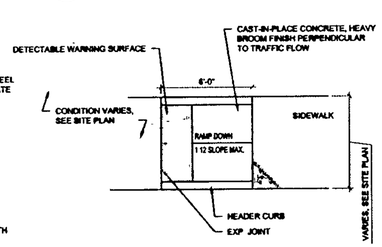
NORTH (A3) SITE PLAN
1" = 40'-0"



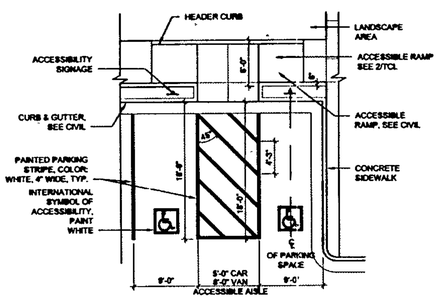
1 COMPACTOR ENCLOSURE
NTS



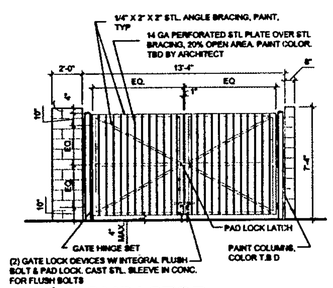
4 COMPACTOR ENCLOSURE SECTION
NTS



2 ACCESSIBLE RAMP
NTS



5 ACCESSIBLE PARKING
NTS



3 COMPACTOR ENCLOSURE GATE
NTS

LANDSCAPING AND SIGNING WILL NOT INTERFERE WITH CLEAR SIGHT REQUIREMENTS. SIGNES, WALLS, TREES & SHRUBS BETWEEN 3'-0" AND 8'-0", FROM THE GUTTER PAN WILL NOT BE ACCEPTABLE IN THIS AREA. SEE LANDSCAPE PLAN.

BUILDING DATA

BUILDING 1- RESIDENTIAL & COMMON SPACE	
FIRST FLOOR (+ COMMUNITY BUILDING)	21,816 SF
SECOND FLOOR	19,712 SF
THIRD FLOOR	18,250 SF
TOTAL BUILDING AREA	58,997 SF
BUILDING 2-RESIDENTIAL	
FIRST FLOOR	19,529 SF
SECOND FLOOR	19,529 SF
THIRD FLOOR	19,529 SF
TOTAL BUILDING AREA	58,032 SF
BUILDING 3- RESIDENTIAL	
FIRST FLOOR	10,854 SF
SECOND FLOOR	10,854 SF
THIRD FLOOR	10,854 SF
TOTAL BUILDING AREA	31,998 SF
BUILDING 4- RESIDENTIAL	
FIRST FLOOR	13,583 SF
SECOND FLOOR	13,583 SF
THIRD FLOOR	13,583 SF
TOTAL BUILDING AREA	40,518 SF
GARAGE BUILDING 1	3,121 SF
+ MAINTENANCE	479 SF
GARAGE BUILDING 2	2,845 SF
GARAGE BUILDING 3	2,455 SF
PROJECT TOTALS	196,445 SF

PARKING REQUIREMENT

TOTAL PARKING REQUIRED PER CITY OF ALBUQUERQUE ZONING CODE.

TOTAL PARKING REQUIRED @ 1.5 PARKING SPACES PER BATH 327 SPACES
TOTAL PARKING PROVIDED 377 SPACES

HANDICAPPED SPACES REQUIRED (301-500): 12
HANDICAPPED SPACES PROVIDED 14

MOTORCYCLE SPACES REQUIRED (301-500): 6
MOTORCYCLE SPACE PROVIDED: 8

TOTAL BICYCLE PARKING REQUIRED @ 1 SPACE PER 2 DU 99 SPACES
TOTAL BICYCLE PARKING PROVIDED OUTSIDE BUILDINGS 80
TOTAL BICYCLE PARKING PROVIDED INSIDE BUILDINGS WITHIN UNITS BALCONIES. 198

SHEET KEYED NOTES

1. MONUMENT SIGN
2. STANDARD CURB AND GUTTER PER COA STD DWG #2415A
3. CONSTRUCT 6" CONCRETE SIDEWALK PER COA STD DWG #2430
4. CONSTRUCT 5'X5' WIDE LANDING AREA (AT 2% MAX CROSS SLOPE IN EVERY DIRECTION) AT BOTTOM OF RAMPS
5. CROSSWALK SIGN WITH NO VISUAL OBSTRUCTIONS
6. STOP SIGN
7. SECONDARY ENTRY
8. BUILD NEW PRIVATE ENTRY PER COA STD DWG #2426 WITH UNIDIRECTIONAL RAMPS, INCLUDING 2' WIDE BY FULL WIDTH TRUNCATED DOMES (DESIGN PER ADA GUIDELINES).
9. 15' RADIUS AT CURB TO PRESERVE EXISTING INLET

LEGEND

	20' REAR YARD SETBACK	MC	MOTORCYCLE PARKING
	PROPERTY LINE		FIRE HYDRANT
	TRAFFIC ARROW	T	TRANSFORMER
	ENGINEERED WOOD FIBER		HANDICAP ACCESSIBLE
	LANDSCAPE AREA		HANDICAP ACCESSIBLE ROUTE
	HEAVY DUTY ASPHALT		6' HT. ORNAMENTAL FENCING

SITE FURNISHINGS

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

	LIGHT POLE, SEE ELECTRICAL		LITTER RECEPTACLE
	BBQ GRILL		BICYCLE RACK
	PICNIC TABLE		SHADE STRUCTURE
	PICNIC TABLE		KEY PAD
	6' BENCH		

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DEC 16 2014
LAND DEVELOPMENT SECTION

architecture
interiors
landscape
planning
engineering

Dekker
Perich
Sabatini

7601 Jefferson NE Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761-4222
dps@dpsdesign.org

ARCHITECT

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
NEW MEXICO
REGISTERED ARCHITECT

ENGINEER

PROJECT

Glenrio Housing
Albuquerque, NM

REVISIONS

DRAWN BY	LI,SY
REVIEWED BY	RW
DATE	10/9/2013
PROJECT NO.	12-0079

DRAWING NAME

TRAFFIC CIRCULATION LAYOUT-

PHASING PLAN

SHEET NO

TCL

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

May 8, 2014

Ronald Witherspoon,R.A.
Dekker, Perich, Sabitini
6601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments, Glenrio Rd. NW & I-25
Traffic Circulation Layout – Phasing Plan
Architect's Stamp dated 10-09-13 (J10-D043)

Dear Mr. Witherspoon,

The TCL-Phasing Plan submittal received 05-07-14 is approved for Building Permit. A copy of the plan will be needed for each of the building permit plans.

When the site construction is completed and a Certificate of Occupancy (C.O.) is requested, use the original City stamped approved TCL for certification. Redline any minor changes and adjustments that were made in the field. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to front counter personnel for log in and evaluation by Transportation.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Racquel M. Michel, P.E.
Senior Engineer, Planning Dept.
Development Review Services

C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Glenrio Apartments Building Permit #: _____ City Drainage #: J10D043

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Owner: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: Dekker Perich Sabatini Contact: Zac Hulme

Address: 7601 Jefferson NW Ste 100

Phone#: 761-9700 Fax#: _____ E-mail: zachel@pdesign.org

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
__✓__ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
____ FOUNDATION PERMIT APPROVAL
__✓__ BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION

____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
__✓__ OTHER (SPECIFY) PHASING PLAN

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: _____ By: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature, location, anc scope to the proposed development defines the degree of drainage detail One or more of the following levels of submittal may be required based on the followin

1 **Conceptual Grading and Drainage Plan** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2 **Drainage Plans** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3 **Drainage Report** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4 **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

RECEIVED
MAY 07 2014
LAND DEVELOPMENT SECTION

CITY OF ALBUQUERQUE

October 11, 2013

Ronald Witherspoon,R.A.
Dekker, Perich, Sabitini
6601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments , Glenrio Rd NW & I-25, Traffic Circulation Layout
Architect's Stamp dated 10-9-13 (J10-D043)

Dear Mr. Witherspoon,

The TCL submittal received 10-10-13 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. **Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.**

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Cynthia K. Beck
Associate Engineer, Planning Dept.
Development Review Services

C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/05)

PROJECT TITLE: GLENRIO APARTMENTS ZONE MAP/DRG. FILE # J10/D043
DRB#: — EPC#: — WORK ORDER#: —

LEGAL DESCRIPTION: SEE ATTACHED
CITY ADDRESS: GLENRIO RD NW, ABQ, NM 87121

ENGINEERING FIRM: SCOTT McGEE, PE CONTACT:
ADDRESS: 9700 TANOAN DR, NE PHONE: 505.2905
CITY, STATE: ABQ, NM 87111 ZIP CODE:

OWNER: TIROL HOUSING, LLC CONTACT: CASEY CAMERON
ADDRESS: 6720 SW. MACADAM AVE, SUITE 310 PHONE: 503.332.6582
CITY, STATE: PORTLAND, OR 97219 ZIP CODE:

ARCHITECT: DEKKER/PERICH/SABATINI CONTACT: JEREMY SHELTON
ADDRESS: 7601 JEFFERSON NE, SUITE 100 PHONE: 761-9700
CITY, STATE: ABQ, NM 87109 ZIP CODE:

SURVEYOR: CARTESIAN SURVEYS, INC. CONTACT: BRIAN MARTINEZ
ADDRESS: P.O. BOX 44414 PHONE: 896.3050
CITY, STATE: RIO RANCHO, NM 87174 ZIP CODE:

CONTRACTOR: PAVILION CONSTRUCTION CONTACT: CASEY CAMERON
ADDRESS: 6720 SW MACADAM, SUITE PHONE: 503.332.6582
CITY, STATE: PORTLAND, OR 97219 ZIP CODE:

TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- X TRAFFIC CIRCULATION LAYOUT
- ____ ENGINEER/ARCHITECT CERT (TCL)
- ____ ENGINEER/ARCHITECT CERT (DRB S.P.)
- ____ ENGINEER/ARCHITECT CERT (AA)
- ____ OTHER (SPECIFY) Resubmittal Stamp 10/9/13 RA

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TEMP)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

* Call Gail if approv. She will bring mon set. 338 5706

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ✓ YES
- ____ NO
- ✓ COPY PROVIDED

RECEIVED OCT 10 2013 LAND DEVELOPMENT SECTION

RECEIVED SEP 19 2013 LAND DEVELOPMENT SECTION

SUBMITTED BY: [signature] DATE: ~~9-19-13~~ OCT 10, 2013

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

Dekker/Perich/Sabatini
architecture interiors landscape planning engineering

October 9, 2013

Traffic Engineer
City of Albuquerque
Transportation Development Coordination
600 2nd Street NW
Albuquerque, New Mexico 87102

RE: Glenrio Apartments
Glenrio Rd. NW & I-25
Total Acreage – 8.930 acres
Zone – R-2
Submittal - TCL for Building Permit

To Whom It May Concern:

I, Ron Witherspoon, NMRA no. 2502 of the firm Dekker/Perich/Sabatini, respectfully request approval of the attached Traffic Circulation Plan dated October 9, 2013 for Building Permit. This submittal addresses your comments from your letter dated September 20, 2013. The comments are as follows:

1) The development of this site must be in compliance with current DPM and ADA standards and regulations. *We have reviewed and are in compliance with current DPM and ADA standards.*

2) Please refer to all applicable city standards. *We are in compliance with applicable city standards.*

3) Please ensure all ramps are ADA compliant. *All ADA ramps shall be compliant.*

4) Per the DPM, a 6 ft. wide ADA accessible pedestrian pathway is required from the public sidewalk to the building entrances. Please clearly show this pathway and provide details. *Keynote #3 has been added to the sheet and dimensions have been identified on the site plan and shall be per COA detail #2430.*

5) Please label and dimension the required sidewalk within the COA ROW at the property line along Glenrio Rd. and the required curb and gutter alone frontage. *The sidewalk has been dimensioned and shall be constructed per COA standard detail #2430.*

6) List the width of the proposed turnouts on Glenrio Rd. per Chapter 23, Section 6, Part B.8.b of the City of Albuquerque *Development Process Manual*, Drive pad – Widths on Local Streets: 25 ft. minimum for two-way access – 25' to 35' permitted, and 12' – 20' for one-way drives (with appropriate signs and parking layout). *The west drive width has been revised to 25'-0".*

7) Show detail of proposed driveways or refer to the appropriate city standards. *Keynote #8 has been added indicating COA standard detail #2426.*

8) Show a detail of the wheelchair ramps located at the proposed driveway, or refer to the appropriate city standard. *Keynote #4 has been added for constructability of wheelchair ramps. COA standard detail #2426 includes wheelchair ramp construction.*

9) Work within the public right of way requires a work order with DRC approved plans. *All work within the GlenrioRoad right of way shall be conducted by work order (CIN 799682).*

10) Please label the ROW width of Glenrio Rd. *The ROW width has been added.*

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OCT 10 2013
LAND DEVELOPMENT SECTION

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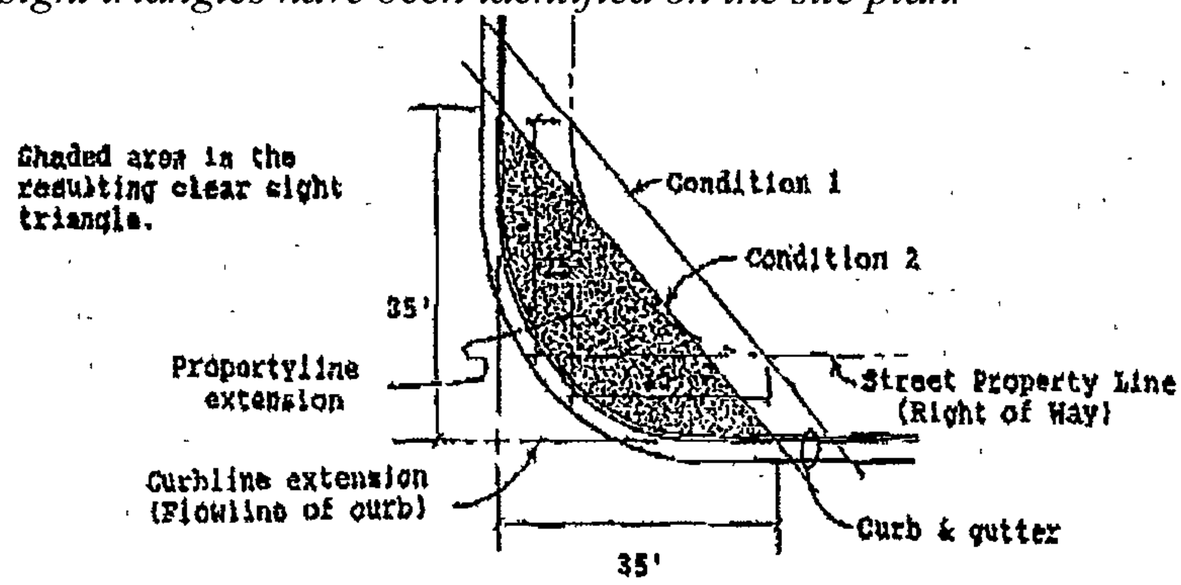
Suite 100
Albuquerque NM
87109
505.761.9700
fax 761 4222
www.dpsdesign.org

11) Please show the existing curb cuts on the west side of Glenrio Rd. across from this development. Label and dimension the centerline of the existing drives to the proposed drives. *The curb cuts and dimensions have been added between drives of development to the south.*

12) Is there proposed signage for this development? If so, please show that signs do not interfere with the sight distance at points of vehicular/pedestrian conflict. Please provide a sight distance exhibit (see the *Development Process Manual*, chapter 23, Part B, Section 5.a). *Signage has been labeled and sight triangles have been identified on the site plan.*



13) Parking spaces cannot cross over the lot lines. *Parking spaces do not cross over lot lines.*

14) Will this development be replatted through DRB to consolidate the two lots? *Yes. Cartesian Surveying, Will Plotner will file for re-plat.*

15) It is not apparent what type of pavement surface is being proposed. A hard driving surface will be required as part of this proposed project for parking area and drive aisles. The "heavy duty asphalt" referenced in the legend is not used in site layout. *The hatch pattern indicating "heavy duty asphalt" has been added.*

16) Is landscaping required by zoning? If so, please provide landscaping plan with next submittal. Per the *Development Process Manual*, Chapter 23, Section 7, Part B.6, curbing should be used to separate landscaping from parking areas and pedestrian ways as well as providing a physical perimeter for harvesting water. This must be clearly shown on the TCL. *A landscape plan has been submitted as a supplement to the TCL site plan, for your review.*

17) Please add the following note: "Landscaping and signing will not interfere with clear sight requirements. Therefore, signs, walls, trees, and shrubbery between 3 and 8 feet tall (as measured from the gutter pan) will not be acceptable in this area." *This note has been added to the landscape plan.*

18) Please clarify the HC VAN and HC abutting Garage Building, provide dimensions. *The dimensions for the HC Van and HC garage spaces have been identified.*

19) Is there a service road provided to the detention pond? *There is not service road provided. This is a private property. The COA will not be maintaining this pond, but will be maintained by the property management or private landscape maintenance company. The staff will use the crusher fine trail to access the pond with golf cart or ATV.*

20) Are there any visual obstructions between the parking stall adjacent to the eastern most crosswalk/path that could present a conflict between vehicle backing up and pedestrian? *There are no visual obstructions. The parking stall adjacent to the crosswalk has been removed. Refer to Keynote # 5.*

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Suite 100
Albuquerque NM
87109
505.761.9700
fax 761.4222
www.dpsdesign.org

The information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

If you have any questions, please feel free to contact myself or Gail Granot at 761-9700, thank you.

Very truly yours,

Dekker/Perich/Sabatini Ltd.

Ron Witherspoon, AIA
Principal

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LAND DEVELOPMENT SECTION

7601 Jefferson NE
Suite 100
Albuquerque NM
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505.761.9700
fax 761.4222
www.dpsdesign.org

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JUL 1 0 2013
LAND DEVELOPMENT SECTION

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/05)

PROJECT TITLE: GLENRIO APARTMENTS ZONE MAP/DRG. FILE # J10/D043
DRB#: — EPC#: — WORK ORDER#: —

LEGAL DESCRIPTION: SEE ATTACHED
CITY ADDRESS: GLENRIO RD NW, ABQ, NM 87121

ENGINEERING FIRM: SCOTT McGEE, PE CONTACT:
ADDRESS: 9700 TANOAN DR, NE PHONE: 505.2905
CITY, STATE: ABQ, NM 87111 ZIP CODE:

OWNER: TIROL HOUSING, LLC CONTACT: CASEY CAMERON
ADDRESS: 6720 SW. MACADAM AVE, SUITE 310 PHONE: 503.332.6582
CITY, STATE: PORTLAND, OR 97219 ZIP CODE:

ARCHITECT: DEKKER/PERICH/SABATINI CONTACT: JEREMY SELFELTON
ADDRESS: 7601 JEFFERSON NE, SUITE 100 PHONE: 761-9700
CITY, STATE: ABQ, NM 87109 ZIP CODE:

SURVEYOR: CARTESIAN SURVEYS, INC. CONTACT: BRIAN MARTINEZ
ADDRESS: P.O. BOX 44414 PHONE: 896.3050
CITY, STATE: RIO RANCHO, NM 87174 ZIP CODE:

CONTRACTOR: PAVILION CONSTRUCTION CONTACT: CASEY CAMERON
ADDRESS: 6720 SW MACADAM, SUITE PHONE: 503.332.6582
CITY, STATE: PORTLAND, OR 97219 ZIP CODE:

TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- X TRAFFIC CIRCULATION LAYOUT
- ____ ENGINEER/ARCHITECT CERT (TCL)
- ____ ENGINEER/ARCHITECT CERT (DRB S.P.)
- ____ ENGINEER/ARCHITECT CERT (AA)
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TEMP)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ✓ YES
- ____ NO
- ✓ COPY PROVIDED

RECEIVED
SEP 19 2013
LAND DEVELOPMENT SECTION

SUBMITTED BY: [signature] DATE: 9-19-13

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE

September 20, 2013

Ronald Witherspoon,R.A.
Dekker, Perich, Sabitini
6601 Jefferson NE Suite 100
Albuquerque, NM 87109

Re: Glenrio Apartments , Glenrio Rd NW & I-25, Traffic Circulation Layout Architect's Stamp dated 9-16-13 (J10-D043)

Dear Mr. Witherspoon,

Based upon the information provided in your submittal received 9-19-13, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. The development of this site must be in compliance with current DPM and ADA standards and regulations.
2. Please refer to all applicable city standards.
3. Please ensure all ramps are ADA compliant.
4. Per the DPM, a 6 ft. wide ADA accessible pedestrian pathway is required from the public sidewalk to the building entrances. Please clearly show this pathway and provide details.
5. Please label and dimension the required sidewalk within the COA ROW at the property line along Glenrio Rd and the required curb and gutter along frontage.
6. List the width of the proposed turnouts on Glenrio Rd. Per Chapter 23, Section 6, Part B.8.b of the City of Albuquerque *Development Process Manual*, Drive pad – Widths on Local Streets: 25 ft minimum for two-way access – 25' to 35' permitted, and 12'-20' for one-way drives (with appropriate signs and parking layout).
7. Show detail of proposed driveways or refer to the appropriate city standards.
8. Show a detail of the wheelchair ramps located at the proposed driveway, or refer to the appropriate city standard.
9. Work within the public right of way requires a work order with DRC approved plans.
10. Please label the ROW width of Glenrio Rd.
11. Please show the existing curb cuts on the west side of Glenrio Rd across from this development. Label and dimension the centerline of the existing drives to the proposed drives.
12. Is there proposed signage for this development? If so, please show that signs do not interfere with the sight distance at points of

PO Box 1293

Albuquerque

New Mexico 87103

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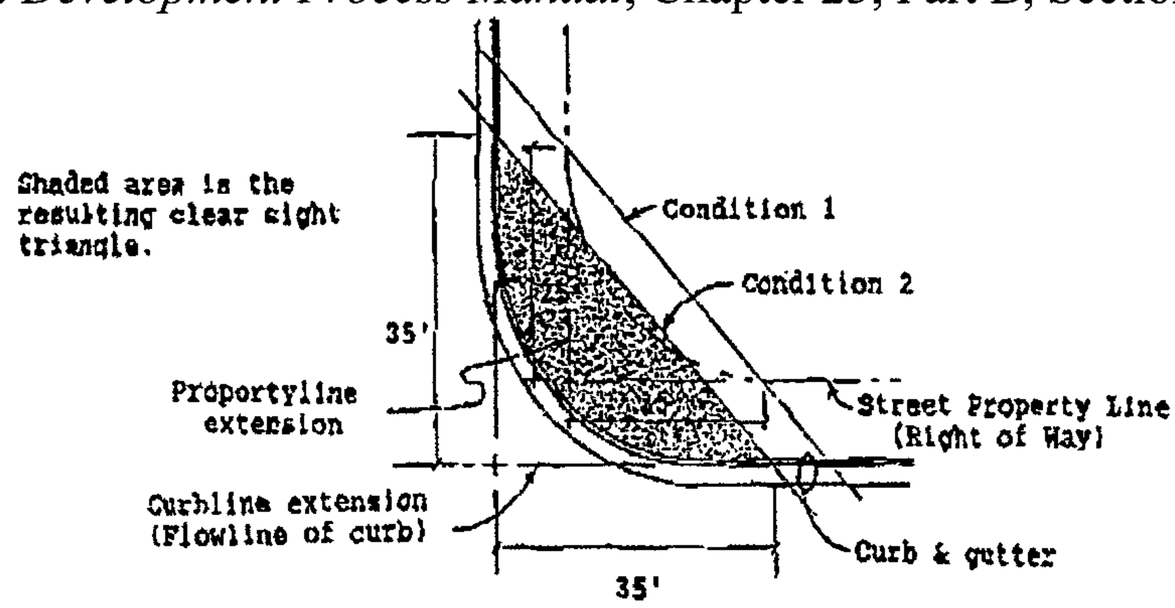
vehicular/pedestrian conflict. Please provide a sight distance exhibit (see the *Development Process Manual*, Chapter 23, Part B, Section 5.a).



13. Parking spaces cannot cross over the lot lines.
14. Will this development be replatted through DRB to consolidate the two lots?
15. It is not apparent what type of pavement surface is being proposed. A hard driving surface will be required as part of this proposed project for parking area and drive aisles. The "heavy duty asphalt" referenced in the legend is not used in site layout.
16. Is landscaping required by zoning? If so, please provide landscaping plan with next submittal. Per the *Development Process Manual*, Chapter 23, Section 7, Part B.6, curbing should be used to separate landscaping from parking areas and pedestrian ways as well as providing a physical perimeter for harvesting water. This must be clearly shown on the TCL.
17. Please add the following note: "Landscaping and signing will not interfere with clear sight requirements. Therefore, signs, walls, trees, and shrubbery between 3 and 8 feet tall (as measured from the gutter pan) will not be acceptable in this area."
18. Please clarify the HC VAN and HC abutting Garage Building, provide dimensions.
19. Is there a service road provided to the detention pond?
20. Are there any visual obstructions between the parking stall adjacent to the eastern most crosswalk/path that could present a conflict between vehicle backing up and pedestrian?

If you have any questions, you can contact me at 924-3924.

Sincerely,

Cynthia K. Beck
Associate Engineer, Planning Dept.
Development Review Services
C: File

ABQMaps - Advanced Map Viewer
Search for map features...
I want to...
All Available Layers
21'
215'
205'
47'
60' ROW
GLENRIO RD
50ft
20m

SITE
LEGAL DESCRIPTION:

A CERTAIN TRACT OF LAND COMPRISED OF PORTIONS OF TRACTS 223 AND 224, AIRPORT UNIT OF THE TOWN OF ATRISCO GRANT AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON DECEMBER 5, 1944 IN PLAT BOOK D, PAGE 117.

RECEIVED
SEP 19 2013
LAND DEVELOPMENT SECTION

Row 59-60'

Bernalillo County Parcels
UPC: 101005829141610402
Owner: DRAGONFLY DEVELOPMENT INC
Owner Address: 12809 DONETTE CT NE, ALBUQUERQUE NM 87112
Situs Address: GLENRIO RD NW, ALBUQUERQUE NM 87121
Legal Description: TOWN OF ATRISCO GRANT A.P.U. #8 TRACT 224 CONT 4.161 ACRES
Approximate Acres: 4.16

Bernalillo County Parcels
UPC: 101005831241410403
Owner: DRAGONFLY DEVELOPMENT INC
Owner Address: 12809 DONETTE CT NE, ALBUQUERQUE NM 87112
Situs Address: , ALBUQUERQUE 87121
Legal Description: TR 223 AIRPORT UNIT TOWN OF ATRISCO GRANT CONT 5.0000 AC
Approximate Acres: 5

RECEIVED
SEP 19 2013
LAND DEVELOPMENT SECTION

PRE-APPLICATION REVIEW TEAM (PRT) MEETING

PA # 13-051 Date: 4/23/ Time: 1:30

1. AGENCY REPRESENTATIVES PRESENT AT MEETING

Planning: ☑ Carmen Marrone ☐ Others _____

Transportation: ☐ Nilo Salgado-Fernandez ☑ Others Cynthia Beck

Code Enforcement: ☑ Jonathan Turner ☐ Others _____

Others: Chris Glore

2. TYPE OF APPLICATION ANTICIPATED / APPROVAL AUTHORITY

☐ Zone Map Amendment ☐ EPC Approval ☐ City Council Approval

☐ Sector Dev. Plan Amendment ☐ EPC Approval ☐ City Council Approval

☐ Site Dev. Plan for Subdivision ☐ EPC Approval ☐ DRB Approval ☐ Admin. Approval

☐ Site Dev. Plan for Bldg Permit ☐ EPC Approval ☐ DRB Approval ☐ Admin. Approval

☒ Other platting action @ DRB

3. SUMMARY OF PRT DISCUSSION:

- current zoning: R-2
- proposing 198 units — use is allowed
- propose to consolidate lots - platting action @ DRB
- provide trees per § 14-16-3-10 (G)(4)
- 6' sidewalk along Glenrio
- no TIS required
- provide motorcycle + bicycle spaces
- check w/ Curtis re: hydrology

RECEIVED
SEP 19 2013
LAND DEVELOPMENT SECTION

4. SIGN & DATE TO VERIFY ATTENDANCE & RECEIPT OF THIS SUMMARY.

CMarrone
PRT CHAIRMAN / DATE

[signature] 4/23/13
APPLICANT OR AGENT / DATE

***Note: PRT DISCUSSIONS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NON-BINDING. Additional research may be necessary to determine the exact type of application needed.

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Glenrio Apartments Building Permit #: 201392688 & 201392689 City Drainage #: J10D043

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: 6901 Glenrio Rd. SW, Albuquerque, NM

Engineering Firm: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Owner: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
X ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
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____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
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____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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____ BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED
MAY 18 2015
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 5.18.15 By: Zac Hulme, DPS

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, anc scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

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4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 5/13/15 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 OF A REQUEST FOR Certificate of Occupancy for Phase 5 (permit #201392689).

-Phase 5 only (permit 201392689), as noted on the recorded drawing TCL Dated 10-09-13

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

Signature of Engineer or Architect

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
5/18/15
REGISTERED ARCHITECT

RECEIVED
MAY 18 2015
LAND DEVELOPMENT SECTION

TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 5/13/15 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 OF A REQUEST FOR Certificate of Occupancy for Phase 6 (permit #201392689).

-Phase 6 only (permit 201392689), as noted on the recorded drawing TCL Dated 10-09-13

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

Signature of Engineer or Architect

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
5/18/15
REGISTERED ARCHITECT

RECEIVED
MAY 18 2015
LAND DEVELOPMENT SECTION

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Glenrio Apartments Building Permit #: 201392687 City Drainage #: J100043

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: 6901 Glenrio Rd. SW, Albuquerque, NM

Engineering Firm: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Owner: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
X ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
____ FOUNDATION PERMIT APPROVAL
____ BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ ~~SO-19 APPROVAL~~
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

AO varified as per Raquel

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MAY 11 2015
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 5.11.15 By: Zac Hulme, DPS

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
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TRAFFIC CERTIFICATION

I, Ronald Witherspoon, NMRA, OF THE FIRM Dekker/Perich/Sabatini, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED TCL Dated 10-09-13. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Zachary Hulme OF THE FIRM Dekker/Perich/Sabatini. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 5/11/15 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 OF A REQUEST FOR Certificate of Occupancy for Phase 4 (permit #201392687).

-Phase 4 only (permit 201392687), as noted on the recorded drawing TCL Dated 10-09-13

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

STATE OF NEW MEXICO
RONALD A. WITHERSPOON
No. 2502
REGISTERED ARCHITECT

5/11/15

Signature of Engineer or Architect

RECEIVED
MAY 11 2015
LAND DEVELOPMENT SECTION

DEKKER
PERICH
SABATINI
ARCHITECTURE
DESIGN
INSPIRATION

7601 Jefferson NE, Suite 100, Albuquerque, NM 87109 / 505.761.9700 / dpsdesign.org

CITY OF ALBUQUERQUE

May 6, 2015

Scott McGee, PE
Scott M. McGee PE, LLC
9700 Tanoan Dr. NE
Albuquerque, NM 87111

Re: Glenrio Apartments Phase 4 & 5
Glenrio NW
Request for Permanent C.O. - Accepted
Engineer's Stamp dated: 5-5-14 (J10D043)
Certification dated: 4-21-15

Dear Mr. McGee,

Based on the Certification received on 4/22/2015, Phases 4 & 5 of Glenrio Apartments is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

Rita Harmon, P.E.
Senior Engineer
Planning Department

RR/RH
C: CO Clerk

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department
Development & Building Services Division
DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 02/2013)

Project Title: GLENRIO APARTMENTS Building Permit #: _____ City Drainage #: J-10/D 043
DRB#: 1009692 EPC#: _____ Work Order#: 799682
Legal Description: TRACT 223-A TOWN OF ATRISCO GRANT
City Address: _____

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE
Address: 9700 TANOAN DR NE
Phone#: 263-2905 Fax#: _____ E-mail: scottmmcgee@gmail.com

Owner: PAVILION Contact: _____
Address: _____
Phone#: 503.270-5005 Fax#: _____ E-mail: _____

Architect: DPS Contact: _____
Address: _____
Phone#: 761-9700 Fax#: _____ E-mail: _____

Surveyor: CARTESIAN SURVEYS Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
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____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

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XX CERTIFICATE OF OCCUPANCY (PERM)
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____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED
APR 22 2015
AND DEVELOPMENT SECT

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided
DATE SUBMITTED: 4/22/15 By: Scott M McGee

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, anc scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

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CITY OF ALBUQUERQUE

February 24, 2015

Scott McGee, PE
Scott M. McGee PE, LLC
9700 Tanoan Dr NE
Albuquerque, NM 87111

Re: Glenrio Apartments, Phase II, Bldg. 1
6901 Glenrio Rd NW
Request for Permanent C.O. - Accepted
Engineer's Stamp dated: 5-5-14 (J10D043)
Certification dated: 2-18-15

Dear Mr. McGee,

Based on the Certification received on 2/18/2015, the Phase listed above is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer
Planning Department

C: RR/CC
CO Clerk
email

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department
Development & Building Services Division
DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 02/2013)

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DRB#: 1009692 EPC#: _____ Work Order#: 799682
Legal Description: TRACT 223-A TOWN OF ATRISCO GRANT
City Address: _____

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE
Address: 9700 TANOAN DR NE
Phone#: 263-2905 Fax#: _____ E-mail: scottmmcgee@gmail.com

Owner: PAVILION Contact: _____
Address: _____
Phone#: 503.270-5005 Fax#: _____ E-mail: _____

Architect: DPS Contact: _____
Address: _____
Phone#: 761-9700 Fax#: _____ E-mail: _____

Surveyor: CARTESIAN SURVEYS Contact: _____
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____ BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED
FEB 18 2015
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided
DATE SUBMITTED: 2/18/15 By: Scott M McGee

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

March 17, 2015

Scott McGee, PE
Scott M. McGee PE, LLC
9700 Tanoan Dr. NE
Albuquerque, NM 87111

Re: Glenrio Apartments, Phase III, Bldg. 3
6901 Glenrio Rd NW
Request for Permanent C.O. - Accepted
Engineer's Stamp dated: 5-5-14 (J10D043)
Certification dated: 3-12-15

Dear Mr. McGee,

Based on the Certification received on 3/12/2015, the Phase III building 3 is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer
Planning Department

C: RR/CC
CO Clerk
email

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department
Development & Building Services Division
DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 02/2013)

Project Title: GLENRIO APARTMENTS Building Permit #: _____ City Drainage #: J-10/D 043
DRB#: 1009692 EPC#: _____ Work Order#: 799682
Legal Description: TRACT 223-A TOWN OF ATRISCO GRANT
City Address: _____

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE
Address: 9700 TANOAN DR NE
Phone#: 263-2905 Fax#: _____ E-mail: scottmmcgee@gmail.com

Owner: PAVILION Contact: _____
Address: _____
Phone#: 503.270-5005 Fax#: _____ E-mail: _____

Architect: DPS Contact: _____
Address: _____
Phone#: 761-9700 Fax#: _____ E-mail: _____

Surveyor: CARTESIAN SURVEYS Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
XX ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
XX CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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____ BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED
MAR 12 2015
LAND DEVELOPMENT SECTION

AO ✓ Verified

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided
DATE SUBMITTED: 3/1215 By: Scott M McGee

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Verbal NO

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: GLENRIO APARTMENTS Building Permit #: _____ City Drainage #: J-10/D 043

DRB#: 1009692 EPC#: _____ Work Order#: 799682

Legal Description: TRACT 223-A TOWN OF ATRISCO GRANT

City Address: _____

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE

Address: 9700 TANOAN DR NE

Phone#: 263-2905 Fax#: _____ E-mail: scottmmcgee@gmail.com

Owner: PAVILION Contact: _____

Address: _____

Phone#: 503.270-5005 Fax#: _____ E-mail: _____

Architect: DPS Contact: _____

Address: _____

Phone#: 761-9700 Fax#: _____ E-mail: _____

Surveyor: CARTESIAN SURVEYS Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
XX ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
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____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
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XX CERTIFICATE OF OCCUPANCY ~~(PERM)~~ PERM
____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED FEB 13 2015 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 2/12/15 By: Scott McGee

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CITY OF ALBUQUERQUE

December 19, 2014

Scott McGee, PE
Scott M. McGee PE, LLC
9700 Tanoan Dr NE
Albuquerque, NM 87111

Re: Glenrio Apartments Phase I
Tracts 223-4 Airport Unit
Request for 180 day Temporary C.O. - Accepted
Engineer's Stamp dated: 05-5-14 (J10D043)
Certification dated: 12-16-14

Dear Mr. McGee,

Based on the Certification received 12/16/2014, the site is acceptable for release of a 180 day Temporary Certificate of Occupancy by Hydrology.

The following comments are to be addressed when submitting the next certification.

- The plan submitted must match what is built including spot elevations in and around all ponds, sidewalk culverts, curb & gutters or flow lines. It is preferable for the original spot to be lined out with the new spot written below the original or next to it.
- If some part of the plan was not erected or built, exceptions in the Drainage Certification should be mentioned.
- Curb cuts were missing by two of the sidewalk culverts. Curb cuts by the other culverts were 4" in width.

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

C: RR/CC
CO Clerk
email

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Verbal No per Shahab Bizzar

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: GLENRIO APARTMENTS City Drainage #: J-10/D043

DRB#: 1009692 EPC#: Work Order#:

Legal Description: TRACTS 223-4 AIRPORT UNIT, TOWN OF ATRISCO GRANT

City Address:

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE

Address: 9700 TANOAN DR NE ABQ, NM 87111

Phone#: 505. 263-2905 Fax#: E-mail: scottm mcgee@gmail.com

Owner: PAVILION Contact: ROB OLSON

Address: 6720 SW MACADAM AVE, STE. 310 PORTLAND, OR 97219

Phone#: 503. 290-5005 Fax#: E-mail:

Architect: DPS Contact: JEREMY SHELTON

Address: 7601 JEFFERSON NE, STE. 100 ABQ, NM 87109

Phone#: 505. 761-9700. Fax#: E-mail:

Surveyor: CARTESIAN SURVEYING Contact: WILL PLOTNER

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- X ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

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- X CERTIFICATE OF OCCUPANCY (PERM) TEMP
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

RECEIVED DEC 16 2014 AND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ✓ Copy Provided

DATE SUBMITTED: 12/16/14 By: SCOTT MCGEE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

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CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services

Richard J. Berry, Mayor

May 20, 2014

Scott McGee, P.E.
Scott M McGee PE, LLC
9700 Tanoan Drive NE
Albuquerque, New Mexico 87113

RE: **Glenrio Apartments, Tracts 223-4 Airport Unit,** File: **J10/D043**
Phased Grading and Drainage Plan for Building Permits PE Stamp: **5-5-2014**

Dear Mr. McGee:

Based upon the information provided in your submittal received 5/6/14, the subject Grading Plan with Phasing is approved for Building Permit.

However, for the project to received Phased Certificates of Occupancy based upon this plan, the existing Erosion and Sediment Control (ESC) Plan must be updated, approved by the City's Stormwater engineer, and implemented with appropriate BMPs for each phase.

Please attach a copy of this approved plan to the Building Permit construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release for any phase, an Engineer's Certification of Grading on this site, and the completed phase(s), will be required per the DPM checklist.

If you have questions, please email me or telephone 505-924-3994.

Sincerely,

5/20/14

Gregory R. Olson, P.E.
Senior Engineer
Development and Building Services

Orig: Drainage file **J10/D043**
c.pdf Addressee via Email ScottMMcGee@gmail.com

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

J10D043_Phased-for-BP_approved

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: GLENRIO APARTMENTS City Drainage #: J-10/D043

DRB#: 1009692 EPC#: Work Order#:

Legal Description: TRACTS 223-4 AIRPORT UNIT, TOWN OF ATRISCO GRANT

City Address:

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE

Address: 9700 TANOAN DR NE ABQ, NM 87111

Phone#: 505. 263-2905 Fax#: E-mail: scottm mcgee@gmail.com

Owner: PAVILION Contact: ROB OLSON

Address: 6720 SW MACADAM AVE, STE. 310 PORTLAND, OR 97219

Phone#: 503. 290-5005 Fax#: E-mail:

Architect: DPS Contact: JEREMY SHELTON

Address: 7601 JEFFERSON NE, STE. 100 ABQ, NM 87109

Phone#: 505. 761-9700 Fax#: E-mail:

Surveyor: CARTESIAN SURVEYING Contact: WILL PLOTNER

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
XX DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
XX OTHER (SPECIFY) WORK ORDER & PHASING PLAN

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

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____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
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____ FINAL PLAT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
____ FOUNDATION PERMIT APPROVAL
XX BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
XX WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED MAY 06 2014 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 5/06/14 By: SCOTT MCGEE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

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CITY OF ALBUQUERQUE

August 7, 2013

Scott McGee, PE
9700 Tanoan Drive NE
Albuquerque, NM 87104

Re: Glenrio Apartments, Tracts 223-4 Airport Unit, Grading and Drainage Plan Engineer's Stamp dated 06-21-2013 (J-10/D043)

Dear Mr. McGee,

Based upon the information provided in your submittal received 06-27-13, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- Clearly show the property line on the grading plan.
- The previously approved grading plan for these tracts (Thompson, June 6, 2006) shows an offsite flow entering the site at a rate of 1.75 cfs; this plan indicates an offsite flow of 1.5 cfs. Please clarify the rate of this flow.
- The accompanying drainage report proposes that the offsite flows will enter a detention pond and will "likely" infiltrate or evaporate before running off. How "likely" is it for either of these processes to occur and what rate of flow will be released from the proposed detention pond into Basin C?
- The proposed storm drain manhole in Glenrio Road will need to be accomplished through Work Order. In keeping with the original intent of the drainage plan for this tract, Basin A should also drain into the proposed onsite storm drain system rather than through a sidewalk culvert.
- Clarify that all of Basin A will drain into the proposed detention pond.
- The proposed sidewalk, curb and gutter, and drive entrances will also need to be constructed under Work Order.
- No grading shall be permitted outside of the property line along the northern site boundary without obtaining prior permission from the State.

If you have any questions please call me at 924-3695.

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development Review Services

C: email

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: GLENRIO APARTMENTS City Drainage #: J10D043

DRB#: EPC#: Work Order#:

Legal Description: TRACTS 223-4 AIRPORT UNIT, TOWN OF ATRISCO GRANT

City Address:

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE

Address: 9700 TANOAN DR NE ABQ, NM 87111

Phone#: 505. 263-2905 Fax#: E-mail: scottm mcgee@gmail.com

Owner: PAVILION Contact: ROB OLSON

Address: 6720 SW MACADAM AVE, STE. 310 PORTLAND, OR 97219

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Architect: DPS Contact: JEREMY SHELTON

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Surveyor: CARTESIAN SURVEYING Contact: WILL PLOTNER

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- X DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
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- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT: Paid $50.00

- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
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- ____ OTHER (SPECIFY)

RECEIVED JUN 27 2013

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 6/27/13 By: SCOTT MCGEE

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Biazar, Shahab

From: Biazar, Shahab
Sent: Friday, December 06, 2013 9:12 AM
To: 'scott mcgee'
Cc: Sims, Timothy E.
Subject: Glenrio Apartments Grading Plan (J10/D043)
Attachments: J10D043_GD_MARKUPS_2013DEC06.pdf

Hi,

Attached please some minor markups on the Glenrio Apartments Grading Plan.

Was there a fence at the back of the sidewalk along Glenrio Road? I believe we talked about this. If there is no fence then the sidewalk culverts have to be extended 2' passed the property line.

Please give me a call with any questions.

Thanks.

Shahab Biazar, P.E.
Principal Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695
f 505-924-3864

LEGEND

5109 82	EXISTING SPOT ELEVATION
10	EXISTING CONTOURS
	COVERED CARPORT
	SIDEWALK CULVERT
FF=5113 5	FINISH FLOOR ELEVATION
12	NEW SPOT ELEVATIONS
10	PROPOSED CONTOURS
SD	PROPOSED STORM DRAIN

AREA DRAIN TABLE			
A D #	ELEVATION		
	Q (CFS)	TOP OF GRATE	INVERT
1	0.3	10 0	6.7
2	0 7	10 1	7 6
3	1 0	10 1	7 6
4	1 2	10 2	8 2
5	1 1	11 0	8 8
6	0 8	11.4	9 6
7	1.0	11 0	9 0
8	1 1	12 0	9 9

AREA· 8 93 acres (388,989 sf)

BENCHMARK· City of Albuquerque Station '6-J10' being a brass cap
ELEV= 5119 81 (NAVD 1988)

SURVEYOR Cartesian Surveying, Inc. dated July 2012

FLOOD HAZARD. From FEMA Panel 327 (9/26/08), this site is identified as being within Zone 'X' which is located outside the 100-year floodplain

EXISTING CONDITIONS: The undeveloped site slopes down from the NW to the SE at slightly less than 1%. Glenrio Road NW abuts the site along the south and Interstate 40 runs along the north side of the site Residential developments abut the site to the west and the east.

OFFSITE FLOW: An existing 30" culvert (at the NW site corner) discharges runoff from the adjacent I-40 This runoff (which is quantified below), will continue to be accepted onsite, routed to a detention pond, and then to Glenrio Road NW.

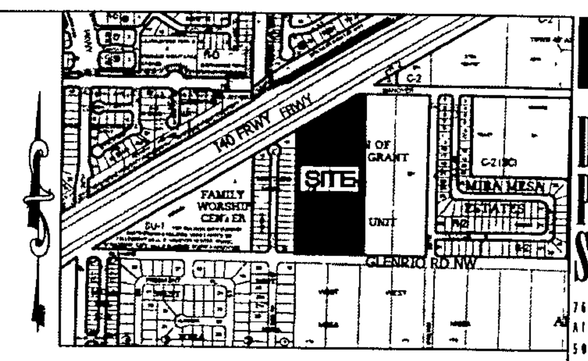
PROPOSED IMPROVEMENTS. The proposed improvements include four 3-story residential buildings, a community building with pool, maintenance building, garage buildings, and associated paved parking and landscaping A depressed landscape area is proposed at the northeast end of the site which will receive developed runoff from both roof and parking areas. A drainage inlet located in a second depressed area is proposed at the south end of the parking area which will drain via a storm drain piped to the existing public storm drain in Glenrio Road NW.

DRAINAGE APPROACH: The proposed drainage plan will continue to follow historic flow paths, but impervious areas will increase runoff The new onsite depressed landscape areas provide needed detention storage volume to mitigate site runoff, which continues to discharge to Glenrio Road NW.

DRAINAGE CALCULATIONS: Based on precipitation Zone· 1
Existing land treatment: 100% A
Q100= (1 29)(8.93) = 11.5 CFS

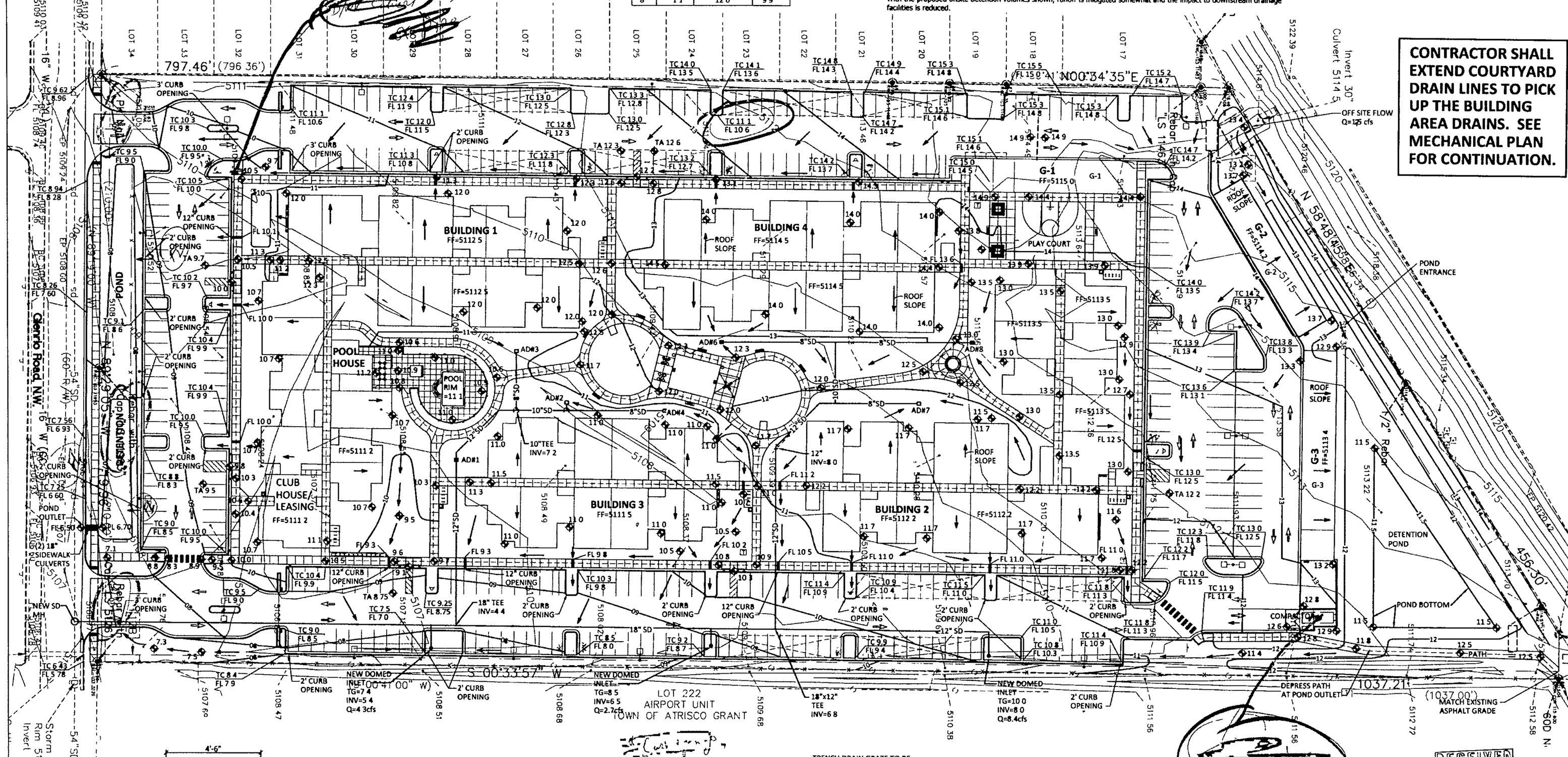
Proposed land treatment: 13% B, 24% C, & 63% D
Q= [2 03(.13) + 2 87(24) + 4 37(63)](8.93) = 33 1 CFS

With the proposed onsite detention volumes shown, runoff is mitigated somewhat and the impact to downstream drainage facilities is reduced.

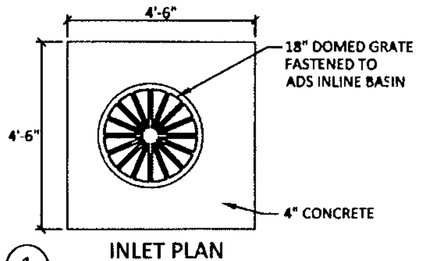


VICINITY MAP J-10 NTS

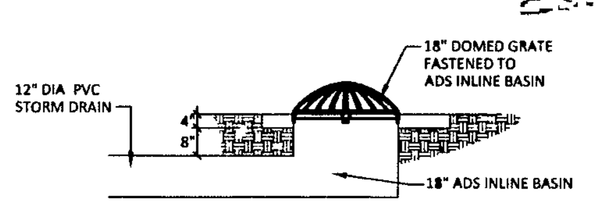
CONTRACTOR SHALL EXTEND COURTYARD DRAIN LINES TO PICK UP THE BUILDING AREA DRAINS. SEE MECHANICAL PLAN FOR CONTINUATION.



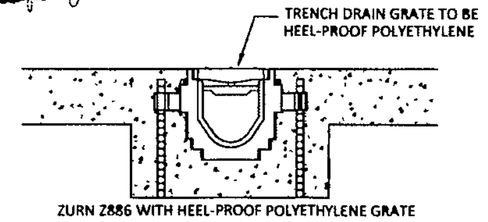
GRADING PLAN
1" = 30 FT



1 INLET PLAN NTS



2 INLET SECTION NTS



TRENCH DRAIN N.T S

RECEIVED NOV 20 2013 LAND DEVELOPMENT SECTION

architecture interiors landscape planning engineering
Dekker Perich Sabatini
7601 Jefferson NE Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761 4222
dps@dpsdesign.org

ARCHITECT

SCOTT M. MAJOR NEW MEXICO 10518 REGISTERED PROFESSIONAL ENGINEER

ENGINEER

PROJECT
GLENRIO APARTMENTS
ALBUQUERQUE, NM

REVISIONS

DRAWN BY
REVIEWED BY
DATE 06/20/13
PROJECT NO
DRAWING NAME
GRADING PLAN

SHEET NO
C101
OF

SCOTT M MCGEE PE, LLC
CIVIL ENGINEER

November 20, 2013

Mr. Shahab Biazar, PE
Senior Engineer, Planning Dept.
Development & Building Services Div.
600 2nd Street NW, Ste. 201
Albuquerque, NM 87102

RE: Glenrio Pavillion Apartments (J-10/ D043)

Dear Mr. Biazar,

Thank you for your review comments of August 7, which have been addressed as follows:

1. The property boundary has been shown more boldly.
2. I reviewed the offsite area and have revised the land treatment types to 40% C and 60% D. This revised flow rate of 1.78 cfs more closely matches the previous rate.
3. It is very likely that offsite flow will either evaporate or infiltrate, however the 1.78 cfs rate is used in downstream calculations.
4. CPN 799682 has been submitted for the public improvements. The sidewalk culvert has been revised to 2- 18" culverts based on Q = (1.49/.015)(1)(0.5)(.1414)= 7.0 CFS each.
5. Basin A will drain to the proposed detention basin.
6. All public improvements will be constructed by CPN 799682.
7. The grading has been revised near the NW corner of the site and no offsite grading is shown.

Please contact me if needed to answer additional questions. Thank you.

Scott M McGee

Scott M McGee

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NOV 20 2013
LAND DEVELOPMENT SECTION

FROM PROJECT INCEPTION TO CONSTRUCTION COMPLETION

9700 Tanoan Dr NE • ABQ, NM 87111 • 505.263.2905 • scottmmcgee@gmail.com

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: GLENRIO APARTMENTS City Drainage #: J-10/D043

DRB#: 1009692 EPC#: Work Order#:

Legal Description: TRACTS 223-4 AIRPORT UNIT, TOWN OF ATRISCO GRANT

City Address:

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE

Address: 9700 TANOAN DR NE ABQ, NM 87111

Phone#: 505, 263-2905 Fax#: E-mail: scottm mcgee@gmail.com

Owner: PAVILION Contact: ROB OLSON

Address: 6720 SW MACADAM AVE, STE. 310 PORTLAND, OR 97219

Phone#: 503, 290-5005 Fax#: E-mail:

Architect: DPS Contact: JEREMY SHELTON

Address: 7601 JEFFERSON NE, STE. 100 ABQ, NM 87109

Phone#: 505, 761-9700 Fax#: E-mail:

Surveyor: CARTESIAN SURVEYING Contact: WILL PLOTNER

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
XX DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
XX OTHER (SPECIFY) WORK ORDER

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
____ FOUNDATION PERMIT APPROVAL
XX BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
XX WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ SO-19 APPROVAL
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED NOV 20 2013 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 11/20/13 By: SCOTT MCGEE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Biazar, Shahab

From: Biazar, Shahab

Sent: Thursday, April 25, 2013 11:02 AM

To: 'Scott Mcgee'

Subject: Pre-design For New Apartment Development On Lots 223 and 224, Town Of Atrisco Grant Airport Unit north Glenrio Rd. Between 72nd and 68th St. (J10/D043)

Hi,

The followings are the Pre-design Notes for new apartment development on Lots 223 and 224, Town Of Atrisco Grant Airport Unit north Glenrio Rd. Between 72nd and 68th St. (J10/D043):

_ There is an existing drainage study for Lots 223 and 224 under the City Drainage Number J10/D043
_ Calculate Offsite Runoff
_ Use West Mesa Diversion Project Drainage Analysis for the allowable discharge into the storm drain system In Glenrio Rd.
_ Depress landscaping areas.
_ Provide street capacity calculation for Glenrio Rd.

Shahab Biazar, P.E.
Senior Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695
f 505-924-3864

4/25/2013

CITY OF ALBUQUERQUE

February 14, 2014

Scott McGee, PE
9700 Tanoan Drive NE
Albuquerque, NM 87104

Re: Glenrio Apartments, Tracts 223-4 Airport Unit, Revised Grading and Drainage Plan Engineer's Stamp dated 1-30-2014 (J10/D043)

Dear Mr. McGee,

Based upon the information provided in your submittal received 2-05-14, the above referenced plan is approved for Building Permit and Work Order.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more and a Topsoil Disturbance Permit for disturbing ¾ of an acre or more. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Acceptance of Work Order Closeout and Certificate of Occupancy, an Engineer Certification per the DPM checklist will be required.

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

Sincerely,

Shahab Biazar, P.E.
Principal Engineer, Planning Dept.
Development Review Services

C: e-mail

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: GLENRIO APARTMENTS City Drainage #: J-10/D043

DRB#: 1009692 EPC#: Work Order#:

Legal Description: TRACTS 223-4 AIRPORT UNIT, TOWN OF ATRISCO GRANT

City Address:

Engineering Firm: SCOTT M MCGEE PE, LLC Contact: SCOTT MCGEE

Address: 9700 TANOAN DR NE ABQ, NM 87111

Phone#: 505, 263-2905 Fax#: E-mail: scottmmcgee@gmail.com

Owner: PAVILION Contact: ROB OLSON

Address: 6720 SW MACADAM AVE, STE. 310 PORTLAND, OR 97219

Phone#: 503, 290-5005 Fax#: E-mail:

Architect: DPS Contact: JEREMY SHELTON

Address: 7601 JEFFERSON NE, STE. 100 ABQ, NM 87109

Phone#: 505, 761-9700 Fax#: E-mail:

Surveyor: CARTESIAN SURVEYING Contact: WILL PLOTNER

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
XX DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION & SEDIMENT CONTROL PLAN (ESC)
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ ENGINEER'S CERT (ESC)
____ SO-19
XX OTHER (SPECIFY) WORK ORDER

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
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____ FINAL PLAT APPROVAL
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____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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____ BUILDING PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
XX WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ ~~SO-19 APPROVAL~~
____ ESC PERMIT APPROVAL
____ ESC CERT. ACCEPTANCE
____ OTHER (SPECIFY)

RECEIVED FEB 05 2014 LAND DEVELOPMENT SECTION

RECEIVED FEB 05 2014 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 2/5/14 By: Scott M McGee

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
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4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

SCOTT M MCGEE PE, LLC
CIVIL ENGINEER

February 4, 2014

Mr. Shahab Biazar, PE
Senior Engineer, Planning Dept.
Development & Building Services Div.
600 2nd Street NW, Ste. 201
Albuquerque, NM 87102

RE: Glenrio Pavillion Apartments (J-10/ D043)

Dear Mr. Biazar,

I am submitting a revised Grading and Drainage plan which brings the site closer to an earthwork balance. The four apartment buildings have been lowered by 0.5' and the three garage buildings have been lowered in a similar way. The drive aisles on the west, south, and east sides of the site have also been lowered slightly. No changes have been made to the proposed grades along Glenrio Road NW. The site drains in the same way as approved previously. The public waterline profile grades will be lowered to provide the minimum cover required.

Please contact me if needed to answer additional questions. Thank you.

Scott M McGee

Scott M McGee

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FEB 05 2014
LAND DEVELOPMENT SECTION

FROM PROJECT INCEPTION · O CONSTRUCTION COMPLETION

9700 Tanoan Dr NE • ABQ, NM 87111 • 505.263.2905 • scottmmcgee@gmail.com

CITY OF ALBUQUERQUE

December 9, 2013

Scott McGee, PE
9700 Tanoan Drive NE
Albuquerque, NM 87104

Re: Glenrio Apartments, Tracts 223-4 Airport Unit, Grading and Drainage Plan Engineer's Stamp dated 11-26-2013 (J10/D043)

Dear Mr. McGee,

Based upon the information provided in your submittal received 12-09-13, the above referenced plan is approved for Building Permit and Workorder.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more and a Topsoil Disturbance Permit for disturbing ¾ of an acre or more. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Acceptance of Work Order Closeout and Certificate of Occupancy, an Engineer Certification per the DPM checklist will be required.

To improve Hydrology's drainage submittal review time, Hydrology will not be accepting certifications for Temporary Certificate of Occupancy. Certifications for sites that are graded in and drain in substantial compliance should submit for Permanent Certificate of Occupancy.

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

Sincerely,

Shahab Biazar, P.E.
Principal Engineer, Planning Dept.
Development Review Services

C: e-mail

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

November 13, 2006

David B. Thompson, P.E.
Thompson Engineering Consultants, Inc.
P.O. Box 65760
Albuquerque, NM 87193

Re: Las Playas Subdivision Grading and Drainage Plan
Engineer's Stamp dated 11-2-06 (J10/D43)

Dear Mr. Thompson,

Based upon the information provided in your submittal received 11-2-06, the above referenced plan is approved for Preliminary Plat action by the DRB. Once that board approves the Grading Plan, please submit a mylar copy for my signature in order to obtain a Rough Grading Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions about this permit, please feel free to call the Municipal Development Department, Hydrology section at 768-3654 (Sertil Kanbar).

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

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

C: file
Brad Bingham
Sertil Kanbar, DMD

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE INFORMATION SHEET
(REV. 1/28/2003rd)

PROJECT TITLE: LAS PLAYAS SUBDIVISION ZONE MAP/DRG. FILE #: J10 – D43
DRB #: 1002372 EPC #: WORK ORDER#:

LEGAL DESCRIPTION: TRACTS 223 & 224, AIRPORT UNIT, TOWN OF ATRISCO GRANT
CITY ADDRESS:

ENGINEERING FIRM: Thompson Engineering Consultants, Inc.
ADDRESS: P.O. Box 65760
CITY, STATE: Albuquerque, NM
CONTACT: David Thompson
PHONE: 271-2199
ZIP CODE: 87193

OWNER: Tramway Associates, Inc.
ADDRESS: 12809 Donette Ct. NE
CITY, STATE: Albuquerque, NM
CONTACT: Philip Lindborg
PHONE: 291-0353
ZIP CODE: 87112

ARCHITECT:
ADDRESS:
CITY, STATE:
CONTACT:
PHONE:
ZIP CODE:

SURVEYOR: Cartesian Surveys, Inc.
ADDRESS: P.O. Box 44414
CITY, STATE: Rio Rancho, NM
CONTACT: Will Plotner
PHONE: 896-3050
ZIP CODE: 87124

CONTRACTOR:
ADDRESS:
CITY, STATE:
CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, REQUIRES TCL or equal
- XX DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERTIFICATION(TCL)
- ____ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA/FINANCIAL GUARANTEE RELEASE
- XX 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 (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- XX GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ____ YES
- XX NO
- ____ COPY PROVIDED

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NOV 02 2006
HYDROLOGY SECTION

DATE SUBMITTED: November 2, 2006 BY:

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five acres
2. **Drainage Plans:** Required for building permits, grading permits, paving permits, and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or

DRAINAGE REPORT
FOR
LAS PLAYAS SUBDIVISION

November 2006

CITY OF ALBUQUERQUE

August 22, 2006

David B. Thompson, P.E.
Thompson Engineering Consultants, Inc.
P.O. Box 65760
Albuquerque, NM 87193

Re: Las Playas Subdivision Grading and Drainage Plan
Engineer's Stamp dated 8-22-06 (J10/D43)

Dear Mr. Thompson,

Based upon the information provided in your submittal received 8-22-06, the above referenced plan is approved for Preliminary Plat action by the DRB. Once that board approves the Grading Plan, please submit a mylar copy for my signature in order to obtain a Rough Grading Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions about this permit, please feel free to call the Municipal Development Department, Hydrology section at 768-3654 (Charles Caruso).

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

Sincerely,

Curtis A. Cherne

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

Bub

C: file
Brad Bingham
Charles Caruso, DMD

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

THOMPSON Engineering Consultants, Inc.

August 22, 2006

Mr. Curtis A. Cherne, E.I.
Engineering Associate, Planning Department
Development Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: REVISED DRAINAGE REPORT SUBMITTAL FOR LAS PLAYAS SUBDIVISION (J10 – D43)

Dear Mr. Cherne:

Enclosed please find a revised drainage report and a Drainage Information Sheet. The following addresses comments in your letter dated July 31, 2006.

1. The report has been revised to include the offsite flows from I-40 that enter the site at the location of the existing 30" culvert at Lot 17-P1. There will be a garden wall the entire length of the property adjacent to I-40 except where the culvert drains onto the property. This garden wall will keep offsite flows east of the 30" culvert from entering the site.
2. Masonry walls will be constructed between lots and behind the east lots as well.
3. The grade at the intersection of Arena del Sol and Arena Antigua has been revised so that it is less than the maximum of 4%.
4. The elevations of the entrance to Arena Antigua and Arena del Sol at Glenrio have been changed to prevent water from ponding.
5. The typographical errors in Table 2 have been fixed.

If you should have any questions, please call me at 271-2199.

Sincerely,

David B. Thompson, P.E.

RECEIVED
AUG 22 2006
HYDROLOGY SECTION

P.O. Box 65760 • Albuquerque, NM 87193• (505) 271-2199 • Fax (505) 830-9248

DRAINAGE INFORMATION SHEET
(REV. 1/28/2003rd)

PROJECT TITLE: LAS PLAYAS SUBDIVISION ZONE MAP/DRG. FILE #: J10 – D43
DRB #: 1002372 EPC #: WORK ORDER#:

LEGAL DESCRIPTION: TRACTS 223 & 224, AIRPORT UNIT, TOWN OF ATRISCO GRANT
CITY ADDRESS:

ENGINEERING FIRM: Thompson Engineering Consultants, Inc.
ADDRESS: P.O. Box 65760
CITY, STATE: Albuquerque, NM
CONTACT: David Thompson
PHONE: 271-2199
ZIP CODE: 87193

OWNER: Tramway Associates, Inc.
ADDRESS: 12809 Donette Ct. NE
CITY, STATE: Albuquerque, NM
CONTACT: Philip Lindborg
PHONE: 291-0353
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ARCHITECT:
ADDRESS:
CITY, STATE:
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PHONE:
ZIP CODE:

SURVEYOR: Cartesian Surveys, Inc.
ADDRESS: P.O. Box 44414
CITY, STATE: Rio Rancho, NM
CONTACT: Will Plotner
PHONE: 896-3050
ZIP CODE: 87124

CONTRACTOR:
ADDRESS:
CITY, STATE:
CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL, REQUIRES TCL or equal
- XX DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERTIFICATION(TCL)
- ____ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA/FINANCIAL GUARANTEE RELEASE
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- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- XX GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ____ YES
- XX NO
- ____ COPY PROVIDED

RECEIVED
AUG 22 2006
HYDROLOGY SECTION

DATE SUBMITTED: August 22, 2006 BY:

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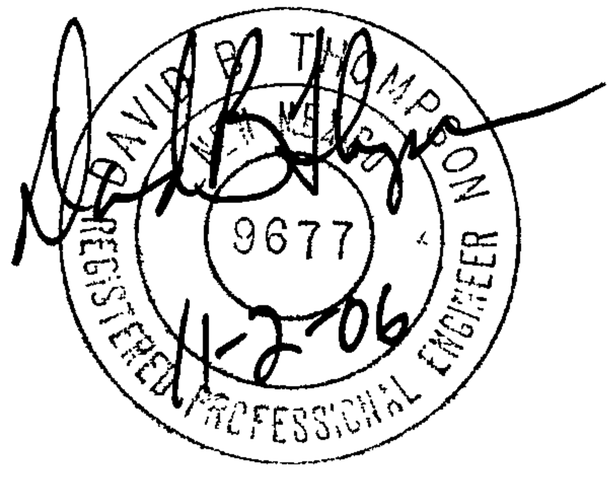
DRAINAGE REPORT
FOR
LAS PLAYAS SUBDIVISION

Prepared for:
DRAGONFLY DEVELOPMENT, INC.



Prepared by:
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November 2006

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INTRODUCTION AND SITE LOCATION

The proposed Las Playas Subdivision is located on Glenrio Road NW between 68th Street and 72nd Street south of I-40. The 8.93 acre property will be subdivided into a total of 75 single family lots. This property is located within the "West Mesa Diversion Project Drainage Analysis Report" area. This report specifically addresses the grading and drainage plan and analysis for Las Playas subdivision.

METHODOLOGY

The hydrologic and hydraulic criteria in Section 22 of the City of Albuquerque Development Process Manual (DPM), entitled "Drainage, Flood Control, and Erosion Control," was followed to perform the analyses given in this report. The design storm used for both the existing undeveloped and developed conditions of the Bluffs at Encantado Subdivision is the 100-year, 6-hour storm event for peak flow computations.

Street capacities were modeled using Haested Flowmaster program to determine normal depths and conjugate depths. A hydraulic analysis of the storm sewer collection system was performed to assist in the sizing of the infrastructure.

EXISTING DRAINAGE CONDITIONS

INTRODUCTION

The site drains from north to south at an average slope of about 1%. The site is sparsely vegetated with native grasses and scrub brush. A 54" RCP storm drain is located in Glenrio Road across the front of the property. A cattleguard type inlet is located in Glenrio Road at the east end of the property. The storm drain in Glenrio Road drains to a storm drain in 64th Street and is carried north to the I-40 West Mesa Diversion Channel.

The FEMA Flood Insurance Rate Map Number 35001C0327 E, effective date November 19, 2003, shown in Figure 1, indicates the presence of a Zone X flood hazard zone on the site. Zone X is an area in the 500-year flood or areas less than 1 foot deep 100-year flood.

OFF-SITE FLOWS

There is an existing 30" RCP culvert under I-40 draining onto the property at the northwest corner of the site. This culvert was originally constructed to drain runoff from north of I-40 south onto the property. The West Mesa Diversion Project north of I-40 (under construction) has cut off all runoff from north of I-40 and diverted the flows east in a drainage channel. Also, a field inspection of the I-40 median indicates that there are no median inlets that drain into the 30" culvert. Therefore, there are no offsite flows draining onto the property from the 30" culvert. But, a small basin from I-40, as shown on

the exhibit at the end of the report, will drain onto the property at the opening in the garden wall at the 30" culvert an into the 5 foot concrete channel. A total of 1.75 CFS will drain onto the property from the offsite basin.

ON-SITE FLOWS

For the existing conditions hydrologic analysis land treatment type A is used. The peak flow from the site is 11.5 CFS.

Table 1 Existing Drainage Conditions

BASINS	Area (acres)	100yr-6hr Peak Flow (cfs)	100yr- 6hr Runoff Volume (acre-ft)	Land Treatment
ONSITE	8.93	11.52	0.327	100% A,
OFFSITE	0.47	1.75	0.061	43% C, 57% D

DEVELOPED DRAINAGE CONDITIONS

DRAINAGE BASIN DELINEATION

The exhibit at the end of the report shows that the site is divided into eight drainage basins. Basins 110, 120, 130 and the offsite basin drain to storm inlets in Arena Antigua Drive north of Glenrio Road. Basin 200 drains directly to Glenrio Road. Basins 310, 320, and 330 drain to storm inlets in Arena del Sol Place north of Glenrio Road. Basin 400 drains directly to Glenrio Road.

HYDROLOGIC ANALYSIS

To determine the peak flows of each basin a hydrologic analysis was performed in accordance to section 22.2 of the Development Process Manual (DPM). The 100-year 6-hour storm was the basis for determining peak flows to size the storm sewer inlets (see Appendix A). The 100-year 6-hour storm was also the basis for determining peak flows to calculate the size of the proposed storm sewer lines (see Appendix A). The property is located in Zone 1, which has a 100-year 6-hour storm event of 2.20 inches.

The site was assigned land treatment values in accordance with Tables A-4 and A-5 of the DPM's section 22.2. Table 1 shows the Land Treatments and peak flows for each basin. See Appendix A for hydrologic calculations.

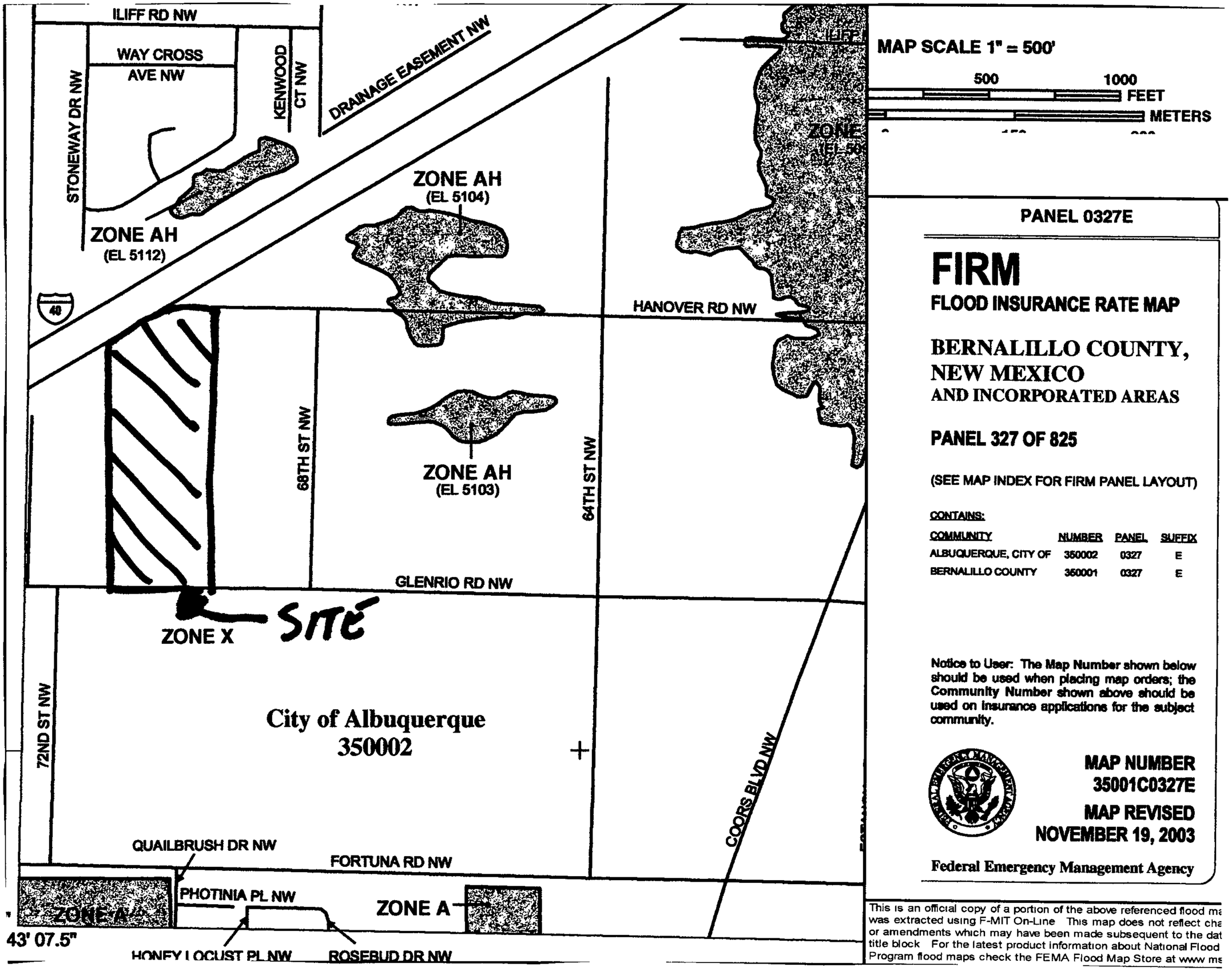

Figure 1 FEMA Flood Insurance Rate Map

Table 2 Developed Drainage Conditions

BASINS	Area (acres)	100yr-6hr Peak Flow (cfs)	100yr- 6hr Runoff Volume (acre-ft)	Land Treatment
110	1.684	5.92	0.206	22% B, 22% C, 56% D
120	1.520	5.49	0.192	20% B, 20% C, 60% D
130	0.649	2.33	0.081	20% B, 21% C, 59% D
200	0.246	0.88	0.031	20% B, 21% C, 59% D
310	2.392	8.40	0.291	22% B, 22% C, 56% D
320	1.741	6.27	0.220	20% B, 20% C, 60% D
330	0.435	1.56	0.054	20% B, 21% C, 59% D
400	0.235	0.86	0.030	19% B, 19% C, 62% D

31.71 cfs

DRAINAGE CONCEPT

Introduction

This property is located within the "West Mesa Diversion Project Drainage Analysis Report" area (see Appendix C). According to the West mesa Analysis Report, runoff from this site under developed conditions drains to the existing storm drain in Glenrio Road. The report assumed a Type D land Treatment of 70% since it is zoned R-2. Table 2 shows the maximum Type D Land Treatment for the subdivision is 65%. A 54" RCP storm drain is located in Glenrio Road across the front of the property. A cattleguard type inlet is located in Glenrio Road at the east end of the property. The storm drain in Glenrio Road drains to a storm drain in 64th Street and is carried north to the I-40 West Mesa Diversion Channel.

The drainage concept for this subdivision includes collecting the runoff in Arena Antigua Drive and Arena del Sol Place in two single A type storm inlets and discharging to the storm drain in Glenrio Road via 24" and 30" storm drains. A 5 foot-wide concrete rundown will be constructed in the 20 foot-wide drainage easement on lot 17 to convey the offsite flows from the offsite basin to Arena Antigua Drive.

Basins 110, 120, 130 and the offsite basin drain a total of 15.49 cfs into two Type A storm inlets, one at each gutter pan in Arena Antigua Drive. The inlets are in a sump condition. Assuming a 50% clogging factor, the capacity of each inlet is 15.7 cfs. So, the total capacity for both Type A inlets is 31.4 cfs. The runoff collected in the inlets is conveyed to the Glenrio storm drain via a 24" RCP storm drain.

Basins 310, 320, and 330 drain a total of 16.23 cfs into two Type A storm inlets, one at each gutter pan in Arena del Sol Place. The inlets are in a sump condition. Assuming a

50% clogging factor, the capacity of each inlet is 15.7 cfs. As before, the total capacity for both Type A inlets is 31.4 cfs. The runoff collected in the inlets is conveyed to the Glenrio storm drain via a 30" RCP storm drain.

Basin 200 and 400 drain directly into Glenrio Road where the runoff is collected by the existing cattleguard inlet.

Street Hydraulic Analysis

A hydraulic analysis of the street flows in the off site basins and onsite basins was completed to determine normal depth and sequent depth of the flow (see Appendix B). For the onsite basins the sequent depth must remain within the street right-of-way. Therefore, the sequent depth must be equal to or less than 0.53 feet or 0.87 feet, for the streets that have 4" mountable curb and gutter or standard curb and gutter, respectively . A normal depth analysis using Haested Methods Flowmaster program was completed. Flowmaster automatically calculates the energy grade depth, which is always greater than the sequent depth. Therefore, if the energy grade depth is equal to or less than 0.53 feet for a street section with mountable curb and gutter, then the sequent depth is also less than 0.53 feet. Mountable curb and gutter is used throughout the subdivision except between lots 1 and 6 in Arena Antigua Drive and between lots 38 and 44 in Arena del Sol Place. Table 2 shows the results of the analysis including the energy grade depth.

Table 3 Street Hydraulic Analysis

Street	Width (ft)	Slope (%)	Curb and Gutter Type	Flow (cfs)	Normal Depth (ft)	Energy Grade Depth (ft)
Arena Antigua Drive at Lot 6	28	0.50	Mountable	12.49	0.34	0.42
Arena Antigua Drive at Inlets	28	0.50	Standard	15.49	0.37	0.46
Arena del Sol Place at Lot 47	28	0.50	Mountable	12.40	0.33	0.41
Arena del Sol Place at Lot 52	28	0.50	Standard	14.67	0.36	0.45

Grading Plan

Plate 2 shows the Mass Grading Plan for the subdivision. The grading plan shows that the subdivision will drain from north to south to storm inlets that connect to the storm sewer system in Glenrio Road.

N

SCALE: NTS

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

DESIGN		
DESIGNED BY DBT	DATE XXX	
DRAWN BY DEM	DATE XXX	
CHECKED BY DBT	DATE XXX	

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT

LAS PLAYAS
OFF-SITE BASIN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.

City Project No.	Zone Map No.	Sheet	Of
XXXX	J-10-Z	1	1

Z:\projects\lindborg-hahn\GLENRIO\PLANSET-REVISED\OFFSITE-BASINS.dwg 10/20/2006 7:07:18 AM MST

APPENDIX A
HYDROLOGIC CALCULATIONS

HYDROLOGIC CALCULATIONS
SECTION 22 2 OF THE DPM
2-Nov-06

LAS PLAYAS SUBDIVISION
ZONE 1

	TYPE A	TYPE B	TYPE C	TYPE D
PEAK DISCHARGE	1.29	2 03	2.87	4 37
EXCESS RUNOFF	0.44	0.67	0.99	1.97

BASIN	AREA	LAND TREATMENT				PEAK	RUNOFF	RUNOFF	RUNOFF	CFS/AC
		TYPE A	TYPE B	TYPE C	TYPE D	FLOW	6-HR	24-HR	6-HR	
	acres					CFS	ac-ft	ac-ft	CF	CFS
DEVELOPED										
110	1.684		0.360	0.370	0.945	5.92	0.206	0 237	8963	3.52
120	1.520		0.301	0.302	0.917	5.49	0.192	0.223	8375	3.61
130	0.649		0 132	0 133	0.384	2 33	0 081	0.094	3545	3 59
200	0.246		0.050	0 050	0.146	0.88	0 031	0.036	1345	3.59
310	2.392		0.534	0.534	1.324	8.40	0.291	0.335	12686	3 51
320	1.741		0.348	0.348	1.045	6.27	0.220	0.255	9570	3.60
330	0.435		0.089	0 090	0 256	1 56	0 054	0.063	2371	3.58
400	0.235		0.044	0 045	0 146	0 86	0 030	0.035	1313	3.64
EXISTING										
OFFSITE	0.470	0.000	0.000	0 200	0.270	1 75	0.061	0.070	2650	3.73
ONSITE	8.930	8 930	0 000	0.000	0 000	11 52	0 327	0.327	14263	1.29

APPENDIX B
HYDRAULIC CALCULATIONS

SUMMARY OF HYDRAULIC CALCULATIONS
CLOSED CONDUIT

BY DBT
DATE 11/2/2006
SHEET 1 of 1

PROJECT LAS PLAYAS SUBDIVISION
100 year

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										JUNCTION		LOSSES										
STATION	STRUCT	D	Q	A	V	K	Sf	L	DELTA	D	ANGLE	hf	hb	hj	hmh	ht	hmisc	SUM	E G	hv	H.G	GROUND ELEV
																					5101.00	
Antigua	MH												0 00				0 00	0.00	5101 38	0 38	5101.00	
		24	15 5	3 14	4 93	226 29	0.0047	100				0 47						0.47	5101 85	0 38	5101 47	
	MH								45	18	90		0 04	0 53	0 00	0 00		0.57	5102 42	0 30	5102 12	5105.50
		18	7 8	1 77	4 41	105 07	0 0055	20				0 11						0.11	5102 53	0 30	5102 23	
	Inlet												0 00	0 00	0 02	0 00		0 02	5102 55	0 30	5102 24	5105 28
		18	7.8	1 77	4.41	105 07	0 0055	0				0.00						0 00	5102.55	0 30	5102.24	
																					5102 50	
Del Sol	MH												0 00				0 00	0 00	5102 67	0 17	5102.50	
		30	16 2	4 91	3.30	410 33	0 0016	140				0 22						0 22	5102 89	0 17	5102 72	
	MH								45	18	90		0 05	0.15	0 00	0 00		0.20	5103 09	0 33	5102 76	5104 30
		18	8 1	1 77	4.58	105 07	0 0059	20				0.12						0 12	5103 20	0 33	5102 88	
	Inlet												0 00	0 00	0 02	0 00		0 02	5103.22	0 33	5102 89	5103.90
		18	8.1	1 77	4 58	105 07	0.0059	0				0 00						0.00	5103 22	0 33	5102 89	

REMARKS: Manning's n 0 013

Arena Antigua Drive at Storm Inlets
Worksheet for Irregular Channel

Project Description	
Project File	c:\haestad\fmw\bluewate.fm2
Worksheet	SUBDIVISION STREET
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data

Channel Slope 0.005000 ft/ft

Elevation range: 0.00 ft to 0.87 ft.

Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	0.87	0.00	4.00	0.013
4.00	0.79	4.00	10.00	0.025
10.00	0.67	10.00	12.00	0.013
10.10	0.00	12.00	36.00	0.017
12.00	0.04	36.00	38.10	0.013
24.00	0.28	38.10	44.00	0.025
36.00	0.04	44.00	48.00	0.013
38.00	0.00			
38.10	0.67			
44.00	0.79			
48.00	0.87			

Discharge 15.69 cfs

Results

Wtd. Mannings Coefficient	0.016	
Water Surface Elevation	0.37	ft
Flow Area	6.35	ft^2
Wetted Perimeter	28.65	ft
Top Width	28.01	ft
Height	0.37	ft
Critical Depth	0.35	ft
Critical Slope	0.006014	ft/ft
Velocity	2.47	ft/s
Velocity Head	0.09	ft
Specific Energy	0.46	ft
Froude Number	0.92	

Flow is subcritical.

Arena Antigua Drive at Lot 6
Worksheet for Irregular Channel

Project Description	
Project File	c:\haestad\fmw\bluewate.fm2
Worksheet	SUBDIVISION STREET
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	0.005000 ft/ft	

Elevation range: 0.00 ft to 0.53 ft.

Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	0.53	0.00	4.00	0.013
4.00	0.45	4.00	10.00	0.025
10.00	0.33	10.00	12.00	0.013
10.10	0.00	12.00	36.00	0.017
12.00	0.04	36.00	38.10	0.013
24.00	0.28	38.10	44.00	0.025
36.00	0.04	44.00	48.00	0.013
38.00	0.00			
38.10	0.33			
44.00	0.45			
48.00	0.53			
Discharge	12.49 cfs			

Results		
Wtd. Mannings Coefficient	0.015	
Water Surface Elevation	0.34	ft
Flow Area	5.48	ft^2
Wetted Perimeter	29.14	ft
Top Width	28.65	ft
Height	0.34	ft
Critical Depth	0.32	ft
Critical Slope	0.006076	ft/ft
Velocity	2.28	ft/s
Velocity Head	0.08	ft
Specific Energy	0.42	ft
Froude Number	0.92	
Flow is subcritical.		

Arena del Sol Place at Lot 47
Worksheet for Irregular Channel

Project Description	
Project File	c:\haestad\fmw\bluewate.fm2
Worksheet	SUBDIVISION STREET
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	0.005000 ft/ft	
Elevation range: 0.00 ft to 0.53 ft.		
Discharge	12.40	cfs

Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	0.53	0.00	4.00	0.013
4.00	0.45	4.00	10.00	0.025
10.00	0.33	10.00	12.00	0.013
10.10	0.00	12.00	36.00	0.017
12.00	0.04	36.00	38.10	0.013
24.00	0.28	38.10	44.00	0.025
36.00	0.04	44.00	48.00	0.013
38.00	0.00			
38.10	0.33			
44.00	0.45			
48.00	0.53			

Results		
Wtd. Mannings Coefficient	0.015	
Water Surface Elevation	0.33	ft
Flow Area	5.45	ft^2
Wetted Perimeter	29.06	ft
Top Width	28.56	ft
Height	0.33	ft
Critical Depth	0.32	ft
Critical Slope	0.006079	ft/ft
Velocity	2.27	ft/s
Velocity Head	0.08	ft
Specific Energy	0.41	ft
Froude Number	0.92	
Flow is subcritical.		

Arena del Sol Place at Lot 52
Worksheet for Irregular Channel

Project Description	
Project File	c:\haestad\fmw\bluewate.fm2
Worksheet	SUBDIVISION STREET
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data

Channel Slope 0.005000 ft/ft

Elevation range: 0.00 ft to 0.87 ft.

Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	0.87	0.00	4.00	0.013
4.00	0.79	4.00	10.00	0.025
10.00	0.67	10.00	12.00	0.013
10.10	0.00	12.00	36.00	0.017
12.00	0.04	36.00	38.10	0.013
24.00	0.28	38.10	44.00	0.025
36.00	0.04	44.00	48.00	0.013
38.00	0.00			
38.10	0.67			
44.00	0.79			
48.00	0.87			

Discharge 15.08 cfs

Results

Wtd. Mannings Coefficient	0.016	
Water Surface Elevation	0.36	ft
Flow Area	6.19	ft^2
Wetted Perimeter	28.64	ft
Top Width	28.01	ft
Height	0.36	ft
Critical Depth	0.35	ft
Critical Slope	0.006036	ft/ft
Velocity	2.44	ft/s
Velocity Head	0.09	ft
Specific Energy	0.45	ft
Froude Number	0.91	

Flow is subcritical.

CAPACITY OF SINGLE C STORM INLET IN SUMP CONDITION

$L = 40'' - 2(1/2''\text{ ends}) - 7(1/2''\text{ middle bars})$

$= 36.5'' = 2.9583\text{ ft}$

$W = 25.5'' - 13(1/2''\text{ middle bars})$

$= 19'' = 1.583\text{ ft}$

$\text{AREA} = 2.9583 \times 1.583 = 4.683\text{ SF}$

Effective area assuming 50% clogging

$A = 4.68 - 4.68(0.5) = 2.34\text{ SF}$

ORIFICE EQUATION $Q = CA\sqrt{2gh}$

$h = 0.67'$ Depth

$Q = 0.6(2.34)\sqrt{2(32.2)\,0.67}$

$Q = 9.22\text{ CFS}$

CAPACITY OF THROAT

$L = 3.95'$ Area $= 3.95 \times 0.67 = 2.647\text{ SF}$

WEIR EQUATION $Q = CLH^{3/2}$

$Q = 3.0(3.95)\,0.67^{3/2}$

$Q = 6.50\text{ CFS}$

CAPACITY PER INLET AT Depth of 0.67'

$Q = 9.22 + 6.50 = 15.72\text{ CFS}$

APPENDIX C
WEST MESA DIVERSION PROJECT
DRAINAGE ANALYSIS REPORT

CITY OF ALBUQUERQUE, NEW MEXICO

WEST MESA DIVERSION PROJECT
DRAINAGE ANALYSIS

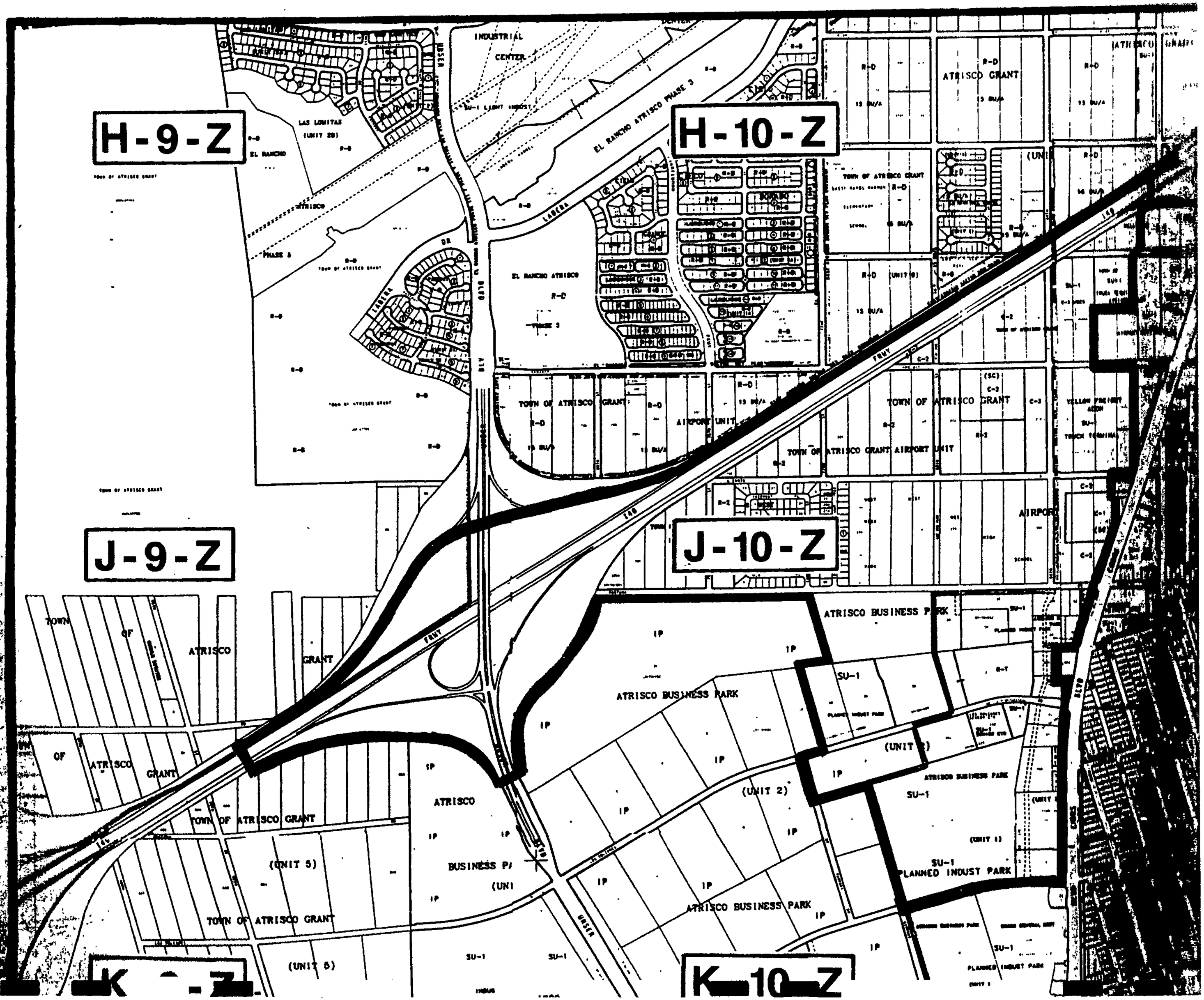
COA PROJECT NO. 5381-01
PUBLIC WORKS DEPARTMENT
HYDROLOGY DIVISION

DRAFT REPORT: MAY 1997

Prepared by

SMITH ENGINEERING COMPANY
6400 UPTOWN BOULEVARD NE SUITE 500E
ALBUQUERQUE, NEW MEXICO 87110

SEC No. 196105


H-9-Z
H-10-Z
J-9-Z
J-10-Z
K-10-Z
INDUSTRIAL
CENTER
LAS LOMITAS
(UNIT 29)
EL RANCHO
ATRISCO
PHASE 5
EL RANCHO ATRISCO PHASE 3
LABERA
EL RANCHO ATRISCO
R-D
PHASE 3
ATRISCO GRANT
15 DU/A
TOWN OF ATRISCO GRANT
(UNIT 8)
(SC)
C-2
C-3
AIRPORT UNIT
TOWN OF ATRISCO GRANT AIRPORT UNIT
YELLOW FREIGHT
TRUCK TERMINAL
ATRISCO BUSINESS PARK
IP
SU-1
(UNIT 2)
(UNIT 1)
PLANNED INDUST PARK
(UNIT 5)
(UNIT 6)
BUSINESS P
(UNI
FWY
140
UNSER
BLVD

4. HYDROLOGY

4.1 Hydrologic Criteria

The hydrologic analysis of the West Mesa Diversion Area utilizes the methodology from the COA's Development Process Manual (DPM) - Volume 2, Design Criteria - Section 22.2, Hydrology, dated January 1993 (DPM 22.2). The design storm is the 100-year, 6-hour event. The 100-year, 24-hour event was also analyzed for sizing the proposed detention basins.

The computer program, AHYMO (ver. 0194) was used to compute the runoff for the study area. Flows were routed through streets, storm drains, and detention basins. The total study area was divided into 25 sub-basins. Sub-basin delineation was developed from existing development, current plat information and field reconnaissance.

Land Treatments were determined from the COA Zone Atlas Map, aerial photography, and field reconnaissance. Table 1 presented on page 9 links the zoning provided to the appropriate land treatments used in the AHYMO computer model.

The time-to-peak (Tp) for each sub-basin was computed using the SCS Upland Method for sub-basin lengths less than 4,000 feet. No sub-basin had a length greater than 4,000 feet. Flow paths were generally assumed to follow existing or future streets and parking lots. The flow path for each sub-basin was divided into as many as five reaches due to varying slopes within a basin and changes in direction of the flow. A minimum time-to-peak of 0.133 hours was used for sub-basins that had a shorter time-to-peak. The AHYMO parameter worksheet is shown in Table 2 on pages 10 and 11.

4.2 Hydrologic Assumptions

Developed land use conditions were assumed for the hydrologic modeling of the study area. Where vacant or undeveloped parcels presently exist, the COA Zone Atlas Map was used to predict future land use conditions.

4.3 Results of Hydrologic Analysis

The 100-year, 6-hour event produced an average peak discharge of 3.3 cfs/acre for the developed sub-basins. The average runoff volume was about 0.17 acre-feet/acre. These values compare well with developed conditions of surrounding watersheds. The runoff parameters, peak discharges and runoff volumes for each sub-basin are shown in Table 2. The AHYMO summary output for the base model and for the selected alternatives can be found in Appendix B. The complete input

TABLE 1

WEST MESA DIVERSION PROJECT
DRAINAGE ANALYSIS

LAND TREATMENTS

ZONE DESIGNATION	LAND TREATMENTS			
	"A"	"B"	"C"	"D"
RESIDENTIAL				
R-1		43		57
R-2		30		70
INDUSTRIAL				
IP		20		80
COMMERCIAL				
C-1		10		90
C-2		10		90
C-3		10		90
SCHOOLS				
WEST MESA HIGH SCHOOL		50		50
PARKS				
SUB-BASIN C6-D		93		7
NMSHTD RIGHT OF WAY				
SUB-BASINS				
I-40D-1 & I-40D-2	75			25
I-40D-3, I-40D-4, I-40D-5	36			64

Percent land treatment "D" taken from Table A-5, DPM Section 22.2

TABLE 2

WEST MESA DIVERSION PROJECT
DRAINAGE ANALYSIS

AHYMO BASIN PARAMETER WORKSHEET
PEAK BASIN FLOWS AND VOLUMES

DEVELOPED CONDITIONS

BASIN	AREA (sq.mi.)	LENGTH (ft.)	ELEV. DIFF. (ft.)	SLOPE (%)	K	VEL (fps)	T(c) (hr.)	T(p) (hr.)	LAND TREATMENT (%) A	B	C	D	10 YEAR PEAK FLOW (6hr.) (cfs)	10 YEAR RUNOFF VOLUME (24hr.) (ac.ft.)	100 YEAR PEAK FLOW (6hr.) (cfs)	100 YEAR RUNOFF VOLUME (24hr.) (ac.ft.)
A1-D	0.0644	400	1.0	0.25	1.0	0.50	0.22	0.15								
		600	1.0	0 17	2.0	0.82	0.20	0.14								
		1000	4.0	0.40	3.0	1.90	0.15	0.10								
		350	1 0	0.29	3.0	1.60	0.06	0.04								
	TOTAL =						0.63	0.42		20		80	55	4.3	88	7.1
B1-D	0.0293	200	2.0	1.00	1.0	1.00	0.06	0.04								
		300	2.5	0.83	3.0	2.74	0.03	0.02								
		300	2.0	0.67	3.0	2.45	0.03	0.02								
		250	2.0	0.80	3.0	2.68	0.03	0.02								
		450	5.0	1.11	3.0	3.16	0.04	0.03								
	TOTAL =						0.19	0.12		20		80	48	2.0	76	3.2
B2-D	0.0185	300	1.0	0.33	1.0	0.58	0.14	0.10								
		400	1.0	0.25	3.0	1.50	0.07	0.05								
		1100	2.0	0.18	3.0	1.28	0.24	0.16								
	TOTAL =						0.46	0.30		20		80	20	1.2	31	2.0
B3-D	0.0190	400	2.0	0.50	1.0	0.71	0.16	0.10								
		850	2.0	0.24	3 0	1.46	0.16	0.11								
	TOTAL =						0.32	0.21		10		90	27	1.4	42	2.3
C1-D	0.0508	1075	5.0	0.47	3.0	2.05	0.15	0.10								
		400	2.0	0.50	3.0	2.12	0.05	0.03								
		650	2.0	0.31	3.0	1.66	0.11	0.07								
		250	1.0	0.40	3.0	1.90	0.04	0.02								
	TOTAL =						0.34	0.23		30		70	57	3.1	93	5.1
C2-D	0.0176	700	2.0	0.29	2.0	1.07	0.18	0.12		30		70	26	1.1	43	1.8
C3-D	0.0175	400	1.0	0.25	1.0	0.50	0.22	0.15								
		1000	2.0	0.20	3.0	1.34	0.21	0.14								
	TOTAL =						0.43	0.29		20		80	19	1.2	30	1.9
C4-D	0.0382	400	2.0	0.50	3.0	2.12	0.05	0.03								
		1000	21.0	2.10	3.0	4.35	0.06	0.04								
	TOTAL =						0.12	0.08		30		70	57	2.3	93	3.9
C5-D	0.0395	200	1.0	0.50	1.0	0.71	0.08	0.05								
		600	4.0	0 67	3.0	2.45	0.07	0.05								
		550	7.0	1.27	3.0	3.38	0.05	0.03								
		150	0.5	0.33	3.0	1.73	0.02	0.02								
		400	2.0	0.50	3.0	2.12	0.05	0.03								
	TOTAL =						0.27	0.18		43		57	44	2.0	75	3.5
C6-D	0.0111 ~~0.0165~~	400	3 ~~1.0~~	0.75 ~~0.25~~	/0.7	0.61 ~~0.35~~	0.18 ~~0.32~~	0.12 ~~0.21~~								
		700	~~4.0~~	~~0.57~~	~~2.0~~	~~1.51~~	0.12 ~~0.10~~	~~0.09~~ 0.09		10		90				
	TOTAL =		1	0.14	4.0	1.50	~~0.45~~ 0.30	~~0.30~~ 0.21		~~93~~		~~7~~	~~5~~	~~0.3~~	~~13~~	~~0.7~~
C7-D	0.0185	1100	5.0	0.45	3.0	2.02	0.15	0.10								
		140	1.0	0.71	3.0	2.54	0.02	0.01								
		900	3.0	0.33	3.0	1.73	0.14	0.10								
	TOTAL =						0.31	0.21		30		70	22	1.1	36	1.9
D1-D	0.0327	400	1.0	0.25	1.0	0.50	0.22	0.15								
		1100	3.0	0.27	2.0	1.04	0.29	0.20								
	TOTAL =						0 51	0.34		50		50	23	1.5	40	2.7
D2-D	0.0295	400	1.0	0.25	1.0	0.50	0 22	0.15								
		1400	6.0	0.43	2.0	1 31	0 30	0.20								
	TOTAL =						0.52	0 35		50		50	20	1.4	35	2.4

TABLE 2

WEST MESA DIVERSION PROJECT
DRAINAGE ANALYSIS

AHYMO BASIN PARAMETER WORKSHEET
PEAK BASIN FLOWS AND VOLUMES

DEVELOPED CONDITIONS

BASIN	AREA (sq.mi.)	LENGTH (ft.)	ELEV. DIFF. (ft.)	SLOPE (%)	K	VEL (fps)	T(c) (hr.)	T(p) (hr.)	LAND TREATMENT (%) A	B	C	D	10 YEAR PEAK FLOW (6hr.) (cfs)	10 YEAR RUNOFF VOLUME (24hr.) (ac.ft.)	100 YEAR PEAK FLOW (6hr.) (cfs)	100 YEAR RUNOFF VOLUME (24hr.) (ac.ft.)
D3-D	0.0264	400 ~~1080~~	~~60~~ ~~1.0~~ ~~2.0~~	~~.5~~ ~~0.25~~ ~~0.20~~	1.0 ~~3.0~~	~~.71~~ ~~0.50~~ ~~1.34~~	~~.16~~ ~~0.22~~ ~~0.21~~ .12 ~~0.45~~	~~.10~~ ~~0.15~~ ~~0.15~~ .08 ~~0.29~~		10		90	~~81~~	2.0	~~48~~	3.1
	TOTAL =	600	3	.5	2	1.41	.28	.18								
D4-D	0.0150	200 1050	4.0 17.0	2.00 1.62	1.0 3.0	1.41 3.82	0.04 0.08	0.03 0.05		30		70	22	0.9	37	1.5
	TOTAL =						0.12	0.08								
D5-D	~~0.0385~~ 0.0423	200 525 800	2.0 4.0 5.0	1.00 0.76 0.63	1.0 3.0 3.0	1.00 2.62 2.37	0.06 0.06 0.09	0.04 0.04 0.06		38 ~~30~~		62 ~~70~~	~~54~~	~~2.2~~	~~87~~	~~3.7~~
	TOTAL =						0.20	0.14								
D6-D	0.0233	200 300 900	1.0 1.0 2.0	0.50 0.33 0.22	1.0 3.0 3.0	0.71 1.73 1.41	0.08 0.05 0.18	0.05 0.03 0.12		30		70	28	1.4	46	2.4
	TOTAL =						0.30	0.20								
E1-D	0.0343	400 1100	1.0 5.0	0.25 0.45	1.0 2.0	0.50 1.35	0.22 0.23	0.15 0.15		10		90	40	2.5	62	4.1
	TOTAL =						0.45	0.30								
E2-D	0.0501	200 250 900	1.0 1.0 4.5	0.50 0.40 0.50	1.0 3.0 3.0	0.71 1.90 2.12	0.08 0.04 0.12	0.05 0.02 0.08		15		85	79	3.6	123	5.7
	TOTAL =						0.23	0.16								
F1-D	0.0316	200 500 500	0.5 2.0 2.0	0.25 0.40 0.40	1.0 3.0 3.0	0.50 1.90 1.90	0.11 0.07 0.07	0.07 0.05 0.05		10		90	50	2.3	78	3.8
	TOTAL =						0.26	0.17								
I-40D-1	0.1260	400 2000 200 400	6.0 40.0 6.0 2.0	1.50 2.00 3.00 0.50	1.0 1.0 1.0 2.0	1.22 1.41 1.73 1.41	0.09 0.39 0.03 0.08	0.06 0.26 0.02 0.05	25			75	38	3.0	82	6.4
	TOTAL =						0.59	0.40								
I-40D-2	0.0484	400 1050 350	10.0 25.0 4.0	2.50 2.38 1.14	0.7 2.0 3.0	1.11 3.09 3.21	0.10 0.09 0.03	0.07 0.06 0.02	25			75	27	1.2	62	2.4
	TOTAL =						0.23	0.15								
I-40D-3	0.0090	400 800 150	4.0 7.0 1.5	1.00 0.88 1.00	0.7 2.0 3.0	0.70 1.87 3.00	0.16 0.12 0.01	0.11 0.08 0.01	36			64	10	0.5	16	0.8
	TOTAL =						0.29	0.19								
I-40D-4	0.0136	400 1100 150	2.0 10.0 1.5	0.50 0.91 1.00	0.7 2.0 3.0	0.49 1.91 3.00	0.22 0.16 0.01	0.15 0.11 0.01	36			64	12	0.7	20	1.2
	TOTAL =						0.40	0.27								
I-40D-5	0.0147	400 1600 150	3.0 11.0 1.5	0.75 0.69 1.00	0.7 2.0 3.0	0.61 1.66 3.00	0.18 0.27 0.01	0.12 0.18 0.01	36			64	12	0.8	20	1.3
	TOTAL =						0.47	0.31								

and output of the selected AHYMO models can be obtained from Smith Engineering Company.

4.4 Sediment Issues

There has been several sediment studies for the west side of Albuquerque that quantify a bulking factor to apply to a developed watershed area. In March 1984, Dr. Richard J. Heggen of the University of New Mexico completed a sediment study for the Amole Arroyo - Westgate Dam drainage area entitled, "Sediment Issues in the Amole Basin." In this report he studied the sediment yield and sediment transport within the watershed. The study determined that a 100-year bulking factor for existing conditions is 0.025 or 2.5% sediment. As a conservative measure Smith Engineering utilized this number for developed conditions. This factor was applied to the AHYMO models "SEDIMENT BULK" routine. The 2.5% sediment bulking factor is also used in BHI's report for AMAFCA on the I-40 Interceptor Drainage Management Plan.

5. FLOOD PLAINS

5.1 Existing Flood Plains

A review of the Federal Emergency Management Agency (FEMA) maps shows that the West Mesa Diversion Project study area has several areas that are designated as flood hazard areas. These flood hazard areas are designated as Zone AH flood plains. A Zone AH flood plain is classified as an area of ponding water at depths of zero to two feet. The flood plains in the study area are due to natural depressions (playas) in the land.

The storm drain alternatives that are proposed in this report would provide a means to remove these flood plains from the study area through the Conditional Letter of Map Revision (CLOMR) process of FEMA. After the storm drain system is constructed, a Letter of Map Revision (LOMR) could be filed with FEMA for their review and possible approval. If the LOMR application is approved the flood plain areas would be removed from the flood plain map by FEMA. Generally the CLOMR/LOMR applications would be the responsibility of the individual property owners and would not be provided by the COA. Map No. 2, pages 14 and 15, shows the existing flood plains in the West Mesa Diversion Project Area.

base flow to the required 510 cfs at the outfall, the storm drain system along the proposed alignment could be designed for the runoff which is allowed to move into the system at the reduced controlled rate. By reducing the peak flow by this percentage, the required storm drain pipe sizes are reduced, thereby reducing construction costs. Alternative 1C, as in Alternative 1B, would require individual property owners to pond their storm water and release it at a rate of 1.6 cfs/acre for the 100 year 6 hour storm event. This rate includes free discharge within roadway rights of way and public easements. If this alternative is chosen, a more precise discharge rate will be determined during the design phase. The release rate to be determined during the design phase will be slightly less than the 1.6 cfs/acre mentioned above.

The storm drain pipe sizes for this alternative range from 48-inch adjacent to basin A1-D to 108-inch at the basin outfall. It should be noted that this is the only option where certain branch storm drain lines can be reduced in size compared to other alternatives. This is the result of increasing the required on-site ponding. Pipe sizes and slopes, key analysis points, and peak discharges in the pipes are shown on Map No. 5. The construction cost estimate for Alternative 1C is $4,982,635 with the detailed take-off presented in Appendix A-2. AHYMO summary tables for Alternative 1C are located in Appendix B-3.

The advantages to this alternative are similar to those of Alternative 1B with the exception that properties under Alternative 1C would have to detain more storm water than Alternative 1B.

7.7 Alternative 2A1 (CEDAR RIDGE 500)

Alternative 2A1 is a storm drain system that includes ponding runoff in a COA owned and maintained detention basin. The base AHYMO model was modified to include a detention pond and full discharge was allowed. The pond site for Alternative 2A1 is an existing retention pond located immediately north of the Cedar Ridge residential subdivision, south of Fortuna Road. The pond is also adjacent (on the east) to a ninety foot drainage easement between Fortuna Road and Bluewater Road. The peak discharge at the storm drain outfall in this alternative is 516 cfs.

Currently, flows generated from Phase I and II of the Cedar Ridge residential subdivision drain to the existing retention pond. Phase I is fully constructed, Phase II is under construction, and there are plans for third phase of this subdivision. Flows generated from Phase III are proposed to drain into the future West Mesa Diversion storm drain in Fortuna Road. Existing easements and agreements for the pond indicate that it is a permanent public easement currently being used for interim retention of storm water runoff. Therefore, this site was chosen as a logical location for a permanent public detention pond that could accept flows from upstream developments and reduce the peak flows in the

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AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994 RUN DATE (MON/DAY/YR) =10/11/2005

INPUT FILE = 42mod1.in USER NO.= C_ANDRSN.I01

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
START										TIME= .00
RAINFALL TYPE= 2										RAIN24= 2.660
SEDIMENT BULK										PK BF = 1.02
COMPUTE NM HYD	A1-D&AP-1	-	1	.06440	87.83	7.319	2.13089	1.800	2.131	PER IMP= 80.00
ROUTE MCUNGE	AP-1.R	1	2	.06440	85.93	7.296	2.12420	1.850	2.085	CCODE = .2
COMPUTE NM HYD	B3-D&AP-2	-	88	.01900	41.13	2.341	2.30977	1.550	3.382	PER IMP= 90.00
COMPUTE NM HYD	B1-D&AP-3	-	1	.02930	74.98	3.330	2.13089	1.500	3.999	PER IMP= 80.00
ROUTE MCUNGE	AP-3.R	1	3	.02930	69.31	3.304	2.11441	1.550	3.696	CCODE = .2
COMPUTE NM HYD	B2-D	-	1	.01850	30.94	2.102	2.13089	1.650	2.613	PER IMP= 80.00
ADD HYD	AP-4	1& 3	70	.04780	92.51	5.407	2.12077	1.550	3.024	
ADD HYD	PART_AP-5	70&88	5	.06680	133.63	7.747	2.17452	1.550	3.126	
ADD HYD	AP-5	5& 2	89	.13120	173.23	15.043	2.14981	1.650	2.063	
ROUTE MCUNGE	AP-5.R	89	2	.13120	171.72	15.023	2.14690	1.650	2.045	CCODE = .2
COMPUTE NM HYD	C3-D	-	90	.01750	30.03	1.989	2.13089	1.650	2.681	PER IMP= 80.00
ADD HYD	PART_AP-7	2&90	3	.14870	201.75	17.011	2.14500	1.650	2.120	
COMPUTE NM HYD	C1-D&AP-6	-	1	.04860	88.78	5.060	1.95202	1.600	2.854	PER IMP= 70.00
ADD HYD	AP-7	3& 1	3	.19730	285.34	22.071	2.09746	1.650	2.260	
COMPUTE NM HYD	I40D-1	-	1	.12600	81.46	6.514	.96940	1.800	1.010	PER IMP= 25.00
ROUTE RESERVOIR	AP-11	1	2	.12600	4.84	5.613	.83529	3.400	.060	AC-FT= 4.688
ROUTE	AP-11.R	2	4	.12600	4.81	5.581	.83056	3.650	.060	
COMPUTE NM HYD	I40D-2	-	1	.04840	60.20	2.502	.96940	1.500	1.943	PER IMP= 25.00
ADD HYD	AP-12	1& 4	5	.17440	60.21	8.084	.86909	1.500	.539	
ROUTE	AP-12.R	5	6	.17440	55.62	8.068	.86745	1.600	.498	
COMPUTE NM HYD	C4-D	-	1	.03820	91.98	3.977	1.95201	1.500	3.762	PER IMP= 70.00
ADD HYD	AP-13	1& 6	4	.21260	136.62	12.045	1.06232	1.550	1.004	
ROUTE MCUNGE	AP-13.R	4	6	.21260	135.07	12.034	1.06132	1.550	.993	CCODE = .1
COMPUTE NM HYD	C5-D	-	1	.03950	74.99	3.622	1.71947	1.550	2.966	PER IMP= 57.00
ADD HYD	AP-14	1& 6	7	.25210	210.06	15.656	1.16444	1.550	1.302	
ROUTE MCUNGE	AP-14.R	7	8	.25210	201.88	15.624	1.16204	1.550	1.251	CCODE = .2
COMPUTE NM HYD	C6-D	-	1	.02530	50.91	2.851	2.11301	1.600	3.144	PER IMP= 79.00
ADD HYD	AP-15	1& 8	9	.27740	252.76	18.475	1.24877	1.550	1.424	
ROUTE MCUNGE	AP-15.R	9	10	.27740	249.83	18.426	1.24548	1.600	1.407	CCODE = .2
COMPUTE NM HYD	C2-D	-	1	.00970	23.37	1.010	1.95202	1.500	3.764	PER IMP= 70.00
ADD HYD	AP-15A	10& 1	9	.28710	265.94	19.436	1.26935	1.600	1.447	
ROUTE MCUNGE	AP-15A.R	9	10	.28710	261.63	19.390	1.26634	1.600	1.424	CCODE = .2
COMPUTE NM HYD	C7-D	-	1	.00560	10.61	.583	1.95201	1.600	2.960	PER IMP= 70.00
ADD HYD	AP-16	1&10	30	.29270	272.24	19.973	1.27945	1.600	1.453	
ADD HYD	PART_AP-16A	3&30	21	.49000	555.45	42.044	1.60883	1.600	1.771	
COMPUTE NM HYD	CRDP-1	-	30	.00466	4.04	.115	.46298	1.500	1.355	PER IMP= .00
ADD HYD	AP-16A	21&30	30	.49466	558.71	42.159	1.59803	1.600	1.765	
ROUTE RESERVOIR	AP-17	30	33	.49466	95.97	41.839	1.58590	2.400	.303	AC-FT= 20.309
ROUTE MCUNGE	AP-17.R	33	12	.49466	95.98	41.835	1.58575	2.400	.303	CCODE = .2
COMPUTE NM HYD	D1-D&AP-18	-	1	.03270	39.52	2.780	1.59426	1.700	1.889	PER IMP= 50.00
ADD HYD	PART_AP-19	1&12	40	.52736	114.56	44.616	1.58628	1.850	.339	
COMPUTE NM HYD	D3-D&AP-22	-	1	.02640	62.67	3.252	2.30977	1.550	3.709	PER IMP= 90.00
ADD HYD	AP-19	1&40	34	.55376	143.47	47.868	1.62077	1.700	.405	
ROUTE MCUNGE	AP-19.R	34	41	.55376	143.43	47.852	1.62026	1.750	.405	CCODE = .2
COMPUTE NM HYD	D2-D&AP-20	-	42	.02950	34.94	2.508	1.59426	1.750	1.850	PER IMP= 50.00
ADD HYD	AP-21	41&42	43	.58326	178.37	50.361	1.61894	1.750	.478	
ROUTE MCUNGE	AP-21.R	43	44	.58326	178.36	50.352	1.61867	1.750	.478	CCODE = .2
COMPUTE NM HYD	I40D-3&AP-23	-	45	.00897	16.17	.842	1.75941	1.550	2.816	PER IMP= 64.00
ROUTE MCUNGE	AP-23.R	45	46	.00897	16.15	.842	1.76007	1.600	2.814	CCODE = .2
COMPUTE NM HYD	D4-D	-	47	.01500	36.12	1.562	1.95201	1.500	3.763	PER IMP= 70.00
ADD HYD	AP-24	47&46	48	.02397	45.38	2.404	1.88015	1.550	2.958	
ROUTE MCUNGE	AP-24.R	48	49	.02397	43.82	2.391	1.87044	1.650	2.857	CCODE = .1
COMPUTE NM HYD	D5-D	-	50	.04230	94.42	4.081	1.80891	1.500	3.488	PER IMP= 62.00
ADD HYD	AP-25	50&49	51	.06627	120.60	6.472	1.83116	1.550	2.844	
ROUTE MCUNGE	AP-25.R	51	52	.06627	113.10	6.427	1.81843	1.600	2.667	CCODE = .2
COMPUTE NM HYD	D6-D	-	53	.02330	45.70	2.426	1.95201	1.550	3.065	PER IMP= 70.00
ADD HYD	AP-26	53&52	54	.08957	157.69	8.853	1.85317	1.550	2.751	
ADD HYD	AP-27	44&54	56	.67283	315.23	59.205	1.64988	1.650	.732	
ROUTE MCUNGE	AP-27.R	56	58	.67283	310.86	59.167	1.64884	1.650	.722	CCODE = .2
COMPUTE NM HYD	E1-D&AP-28	-	94	.03430	61.53	4.225	2.30977	1.650	2.803	PER IMP= 90.00
ROUTE MCUNGE	AP-28.R	94	95	.03430	60.48	4.212	2.30250	1.700	2.755	CCODE = .2
ADD HYD	PART_AP-31	95&58	96	.70713	368.75	63.379	1.68054	1.650	.815	
COMPUTE NM HYD	I40D-4&AP-29	-	59	.01360	20.03	1.276	1.75941	1.650	2.301	PER IMP= 64.00
ROUTE MCUNGE	AP-29.R	59	60	.01360	18.89	1.269	1.74918	1.850	2.170	CCODE = .1
COMPUTE NM HYD	E2-D	-	61	.05010	119.12	5.933	2.22033	1.500	3.715	PER IMP= 85.00
ADD HYD	AP-30	61&60	62	.06370	119.39	7.201	2.11973	1.550	2.928	

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 2 NOTATION
ADD HYD	AP-31	96&62	97	.77083	456.46	70.581	1.71684	1.650	.925	
ROUTE MCUNGE	AP-31.R	97	67	.77083	449.76	70.501	1.71490	1.650	.912	CCODE = .2
COMPUTE NM HYD	F1-D&AP-32	-	68	.03155	76.14	3.887	2.30978	1.550	3.771	PER IMP= 90.00
ADD HYD	AP-33	68&67	69	.80238	503.83	74.388	1.73829	1.650	.981	
ROUTE MCUNGE	AP-33.R	69	70	.80238	496.65	74.308	1.73643	1.650	.967	CCODE = .2
COMPUTE NM HYD	I40D-5&AP-34	-	74	.01470	19.85	1.379	1.75941	1.700	2.110	PER IMP= 64.00

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   ADD HYD                AP-35 70&74  99        .81708        516.28       75.687       1.73684     1.650      .987
   FINISH
□(s0p10h4099T□&16D
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