CITY OF ALBUQUERQUE

July 19, 2016

Yolanda Padilla-Moyer, PE
Bohannan-Huston
7500 Jefferson St NE Courtyard I
Albuquerque, NM 87109

Re: Del Webb Amenity Center
9100 Del Webb Ln
Request Permanent C.O. - Approved
Engineer's Stamp dated: 7-18-15 (H09D0171C)
Certification dated: 7-14-16

Dear Ms. Padilla-Moyer,

Based on the Certification received 7/15/2016, the above referenced Certification is acceptable for the release of permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

TE/AC
C: email, Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Del Webb Amenity Center Building Permit #: _____ City Drainage #: H-9 D01701

DRB#: 10006864 EPC#: _____ Work Order#: _____

Legal Description: N-2-A-F-1 OF DEL WEBB @ MIREHAVEN PHASE I

City Address: 9100 DEL WEBB LANE

Engineering Firm: BOHANNAN HUSTON INC Contact: Yolanda Moyer

Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: _____ E-mail: ypadilla@bhinc.com

Owner: PULTE Contact: KEVIN PATTON

Address: 7601 JEFFERSON STREET NE SUITE 310 ALBUQ. NM 87109

Phone#: 505-341-8591 Fax#: _____ E-mail: kevin.patton@pultegroup.com

Architect: _____ Contact: _____

Address: _____

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

Other Contact: _____ Contact: _____

Address: _____

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

Check all that Apply:

DEPARTMENT:

x HYDROLOGY/ DRAINAGE
___ TRAFFIC/ TRANSPORTATION
___ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

x ENGINEER/ ARCHITECT CERTIFICATION

___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ DRAINAGE MASTER PLAN
___ DRAINAGE REPORT
___ CLOMR/LOMR

___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ TRAFFIC IMPACT STUDY (TIS)
___ EROSION & SEDIMENT CONTROL PLAN (ESC)

___ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ___ Yes ___ No

RECEIVED 7-15-16

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY

___ PRELIMINARY PLAT APPROVAL
___ SITE PLAN FOR SUB'D APPROVAL
___ SITE PLAN FOR BLDG. PERMIT APPROVAL
___ FINAL PLAT APPROVAL
___ SIA/ RELEASE OF FINANCIAL GUARANTEE
___ FOUNDATION PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ SO-19 APPROVAL
___ PAVING PERMIT APPROVAL
x GRADING/ PAD CERTIFICATION
___ WORK ORDER APPROVAL
___ CLOMR/LOMR

___ PRE-DESIGN MEETING
___ OTHER (SPECIFY) _____

DATE SUBMITTED: 07-14-16 By: YOLANDA PADILLA MOYER, P.E.

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___

Bohannan Huston

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

July 14, 2016

Abiel Carrillo, P.E.
Hydrology Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Grading and Drainage Certification – Final Certificate of Occupancy
Del Webb Amenity Center (H-9)

Dear Abiel:

Enclosed for your review is the approved Grading Plan dated 7/18/15. I visited the site on 07-14-16 and it is my belief that this project has been graded and will drain in substantial compliance with in accordance with the design intent of the approved grading plan. All previous exclusions included in the request for Temporary Certification have been addressed. Based on the approval for Temp CO, Hydrology had a comment about the missing grate near the front entrance. This area has been revised; there are 6"- 8" culverts under each sidewalk and swale in between which convey the drainage downstream. This has been indicated on the enclosed certified grading plan.

Your review and approval is requested for a Final Certificate of Occupancy for the project. I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

Enclosure

cc: Jim Werkmeister, Klinger (w/encl)
Kevin Patton, Pulte (w/encl)
Peter Steen, Pulte (w/encl)

RECEIVED
7-15-16

Engineering ▲
Spatial Data ▲
Advanced Technologies ▲

P:\20130375\Correspondence\Submittals\Amenity Center\CO\G&D CERT\Final\Drainage Letter Final CO -07-14-16.docx

Elliott, Stanice

From: Elliott, Stanice
Sent: Wednesday, July 13, 2016 11:23 AM
To: Cordova, Camille C.
Cc: Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois; 'Yolanda Padilla Moyer'
Subject: 9100 Del Webb

Camille
Would you please extend the 30-day CO TEMP for the Del Webb & Mirehaven Amenity Center for another 30 days? If you have any questions please let me know. Thank you.

Stanice 'Totten' Elliott
Planning Department
Hydrology Section
City of Albuquerque
505-924-3982
505-924-3864 fax

CITY OF ALBUQUERQUE

June 24, 2016

Yolanda Padilla-Moyer, PE
Bohannan-Huston
7500 Jefferson St NE Courtyard I
Albuquerque, NM 87109

Re: Del Webb Amenity Center
9100 Del Webb Lane
Request for 30 Day Temporary C.O.-Accepted
Engineer's Stamp dated: 2-19-15 (H09D017C1)
Certification dated: 6-22-16

Dear Ms. Padilla-Moyer,

Based on the Certification received 6/22/2016, the above referenced is approved for a 30-day Temporary Release of Occupancy by Hydrology. However, before a permanent CO can be accepted the following comments must be addressed.

- The swale along Mirehaven Parkway is in place but the aggregate is not in place.
- The swale along the East and North of the pickle ball courts are not in place.
- Additional as-built shots are needed along the SW side (front of the building).
- Top of pond elevations are needed to determine volume.
- Prior to final CO, the missing grate near the front entrance (to drain under the sidewalk) will need to be installed.
- It is recommended (not required for CO) that the minor bird baths be addressed.

An inspection by our office will need to take place after these corrects are made.

If you have any questions, you can contact me at 924-3695 or Totten Elliott at 924-3982.

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

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

TE/AC
C: email, Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Del Webb Amenity Center Building Permit #: _____ City Drainage #: H-9 D017C1

DRB#: 10006864 EPC#: _____ Work Order#: _____

Legal Description: N-2-A-F-1 OF DEL WEBB @ MIREHAVEN PHASE I

City Address: _____

Engineering Firm: BOHANNAN HUSTON INC Contact: Yolanda Moyer

Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: _____ E-mail: ypadilla@bhinc.com

Owner: PULTE Contact: KEVIN PATTON

Address: 7601 JEFFERSON STREET NE SUITE 310 ALBUQ. NM 87109

Phone#: 505-341-8591 Fax#: _____ E-mail: kevin.patton@pultegroup.com

Architect: _____ Contact: _____

Address: _____

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

Other Contact: _____ Contact: _____

Address: _____

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

Check all that Apply:

DEPARTMENT:

x HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION
_____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

x ENGINEER/ ARCHITECT CERTIFICATION

_____ CONCEPTUAL G & D PLAN
_____ GRADING PLAN
_____ DRAINAGE MASTER PLAN
_____ DRAINAGE REPORT
_____ CLOMR/LOMR

_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ EROSION & SEDIMENT CONTROL PLAN (ESC)

_____ OTHER (SPECIFY) _____

RECEIVED
JUN 22 2016
LAND DEVELOPMENT SECTION

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

_____ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY

_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_____ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
x GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR

_____ PRE-DESIGN MEETING
_____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DATE SUBMITTED: 6-21-16 By: YOLANDA PADILLA MOYER, P.E.

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___

Bohannan ▲ Huston

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

June 22, 2014

Abiel Carrillo, P.E.
Hydrology Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Grading and Drainage Certification – 30 Day Temporary CO
Del Webb Amenity Center (H-9)

Dear Abiel:

Enclosed for your review is the approved Grading Plan dated 7/18/15. I visited the site on 66/21/16 and it is my belief that this project has been graded and will drain in substantial compliance with in accordance with the design intent of the approved grading plan with the following exceptions:

- The Contractor's Surveyor shall verify with as-built spot elevations once the Contractor has finished and installed the following items:
  1. The swale along Mirehaven Parkway is in place but the aggregate is not in place
  2. The swale along the east and north of the pickle ball courts is not in place
  3. Additional asbuilt shots are needed along the southwest side (front of the building)
  4. Top on pond elevations are needed to determine volume.

Your review and approval is requested for a 30 Day Temporary Certificate of Occupancy for the project. I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

RECEIVED
JUN 22 2016
LAND DEVELOPMENT SECTION

Enclosure

cc: Jim Werkmeister, Klinger (w/encl)
Kevin Patton, Pulte (w/encl)
Peter Steen, Pulte (w/encl)

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲

P:\20130375\Correspondence\Submittals\Amenity Center\CO\G&D CERT\TEMP\Drainage Letter Temp CO -06-22-16.docx

Yolanda Padilla Moyer

From:	Yolanda Padilla Moyer
Sent:	Wednesday, June 22, 2016 9:29 AM
To:	'PLNDRS@cabq.gov'
Cc:	Kevin Patton (Kevin.Patton@PulteGroup.com); 'peter.steen@pultegroup.com'; 'jimw@klingerllc.com'
Subject:	Del Webb Amenity Center - G&D Cert for Temp CO DRB 1006864
Attachments:	DW Amenity Center _ G&Dcert for TempCO Digital Submittal.pdf

Please find enclosed the digital submittal for the above reference project.

Yolanda Padilla Moyer
Bohannan Huston, Inc.

RECEIVED
JUN 22 2016
LAND DEVELOPMENT SECTION

CITY OF ALBUQUERQUE

July 27, 2015

Yolanda Padilla-Moyer, PE
Bohannan Huston, Inc.
7500 Jefferson NE, Courtyard I
Albuquerque, NM 87109

Re: Del Webb @ Mirehaven Phase I, Amenity Center Grading Plan, N-2-A of the Watershed Subdivision Engineer's Stamp Date 7/18/2015 (H09/D017C1)

Dear Ms. Padilla-Moyer,

Based upon the information provided in your submittal received 7-20-15, the Grading and Drainage Plan is approved for Building Permit and Grading Permit based on the following conditions:

a) This project requires an approved Erosion and Sediment Control plan prior to building permit approval as well as National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more.
b) A Topsoil Disturbance Permit is required for disturbing ¾ of an acre or more.
c) Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3999.

Sincerely,

Shahab Biazar, P.E.
City 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: Del Webb @ Mirehaven Phase 1 Amenity Center Building Permit #: _____ City Drainage #: H09D017C1

DRB#: 1006864 EPC#: _____ Work Order#: _____

Legal Description: N-2-A OF THE WATERSHED SUBDIVISION

City Address: _____

Engineering Firm: BOHANNAN HUSTON INC Contact: Yolanda Moyer

Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: _____ E-mail: ypadilla@bhinc.com

Owner: PULTE HOMES OF NM Contact: Kevin Patton, P.E.

Address: 7601 JEFFERSON ST NE, SUITE 320, ALBUQUERQUE, NM

Phone#: 505-341-8591 Fax#: _____ E-mail: kevin.patton@pultegroup.com

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
- x DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- X 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
- X S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- x BUILDING PERMIT APPROVAL
- X GRADING PERMIT APPROVAL
- X PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY) ROUGH GRADING

RECEIVED JUL 20 2015 LAND DEVELOPMENT SECTION

VB verified

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

DATE SUBMITTED: 7-20-15 By: Yolanda Padilla Moyer

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

Bohannan Huston

Engineering
Spatial Data
Advanced Technologies

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

To: Rita Harmon, P.E.
City of Albuquerque
Plaza del Sol
600 2nd Street
Albuquerque NM 87107

Phone: 505-924-3695

Requested by: Yolanda Padilla Moyer

Date: July 20, 2015

Time Due:
- ☐ This A.M.
- ☒ This P.M.
- ☐ Rush _____
- ☐ By Tomorrow

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☒ Other

PICK UP

Item: _____

Job No.: 20130375

Job Name: Del Webb Amenity Center Final Grading and Drainage Plan

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Cover Letter
2	1	Drainage Info Sheet
3	1	LOMR-F approval
4	1	Digital Copy Submittal E-mail
5	1	Grading and Drainage Plan (3 Sheets)

COMMENTS / INSTRUCTIONS

RECEIVED
JUL 20 2015
LAND DEVELOPMENT SECTION

REC'D BY:_____ **DATE:**_____ **TIME:**_____

Bohannan Huston

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

July 20, 2015

Ms. Rita Harmon
Hydrology Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Amenity Center Final Grading and Drainage Plan Submittal
DRB Case No. 1006864

Dear Rita:

We are submitting a Final Grading and Drainage Plan for the Amenity Center for Del Webb at Mirehaven for Building Permit approval. The Amenity Center is located on Del Webb Blvd between Willow Canyon Trail and Mirehaven Blvd. The site is approximately 6.6 acres. The conceptual grading and drainage plan was approved for Site Plan with a condition that Basin A-2 discharge to Pond #2 via storm drain or surface channel. This condition has been addressed and a swale has been added to drain Basin A-2 to the pond. This floodplain on this site has also been removed via a LOMR-F process through FEMA and the approval information from FEMA has been included in this submittal.

Your review and approval is requested for Building Permit Approval for the above listed buildings. I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

Enclosures

cc: Peter Steen, Pulte Homes
Kevin Patton, Pulte Homes

RECEIVED
JUL 20 2015
LAND DEVELOPMENT SECTION

Engineering ▲
Spatial Data ▲
Advanced Technologies ▲

CITY OF ALBUQUERQUE

May 12, 2015

Yolanda Padilla-Moyer, PE
Bohannan-Huston
7500 Jefferson St NE Courtyard I
Albuquerque, NM 87109

Re: Del Webb @ Mirehaven Phase I
N-2-A of the Watershed Subdivision
Conceptual Grading & Drainage Plan (H09D017C1)

Dear Ms. Padilla-Moyer,

Based upon the information provided in your submittal received 5/8/15, the above referenced plan is approved for Site Plan for Building Permit action by the DRB based on the condition that Basin A-2 is to discharge to pond #2, then to the Mirehaven Arroyo. Pond 1 may serve as a detention pond which discharges to pond #2 via a storm drain or surface channel. Also, show the flood zone for this area.

In general, this site is to discharge to the Mirehaven Arroyo per the Master Drainage Plan.

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, Hydrology
Planning Department.

RR/RH
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: Del Webb @ Mirehaven Phase 1 Amenity Center Building Permit #: _____ City Drainage #: H09D071

DRB#: 1006864 EPC#: _____ Work Order#: _____

Legal Description: N-2-A OF THE WATERSHED SUBDIVISION

City Address: _____

Engineering Firm: BOHANNAN HUSTON INC Contact: Yolanda Moyer

Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: _____ E-mail: ypadilla@bhinc.com

Owner: PULTE HOMES OF NM Contact: Kevin Patton, P.E.

Address: 7601 JEFFERSON ST NE, SUITE 320, ALBUQUERQUE, NM

Phone#: 505-341-8591 Fax#: _____ E-mail: kevin.patton@pultegroup.com

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
- x DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- X 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
- X S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- x BUILDING PERMIT APPROVAL
- X GRADING PERMIT APPROVAL
- X PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY) ROUGH GRADING

No

Received 5-8-15

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

DATE SUBMITTED: 5-8-15 By: Yolanda Padilla Moyer

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

approve concentrate plan for SPBP action by DRBS - on the condition that.

- Basin A-2 discharge to pond #2 and then into Mirehaven Arroyo.

Pond #1 may serve as a detention pond that discharges to Pond #2 via an underground storm drain or surface channel.

Details must be worked out prior to BP.

Bohannan Huston

Engineering
Spatial Data
Advanced Technologies

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

To: Rita Harmon, P.E.
City of Albuquerque
Plaza del Sol
600 2nd Street
Albuquerque NM 87107

Requested by: Yolanda Padilla Moyer

Date: ~~April 22, 2015~~ May 8, 2015

Time Due:
- ☒ This A.M.
- ☐ This P.M.
- ☐ Rush _____
- ☐ By Tomorrow

Phone: 505-924-3986
Job No.: 20130375

Job Name: DelWebb Amenity

DELIVERY VIA

- ☒ Courier
- ☐ Federal Express
- ☐ Mail
- ☐ UPS
- ☒ Other

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Cover Letter
2	1	Drainage Info Sheet
3	1	Grading Plan
4	1	Digital Copy Submittal E-mail
5	1	Drainage Plan

COMMENTS / INSTRUCTIONS

RECEIVED
MAY 08 2015
LAND DEVELOPMENT SECTION

REC'D BY:_____ **DATE:**_____ **TIME:**_____

Yolanda Padilla Moyer

From: Yolanda Padilla Moyer
Sent: Friday, May 08, 2015 12:49 PM
To: PLNDRS@cabq.gov
Cc: Kevin Patton (Kevin.Patton@PulteGroup.com)
Subject: Del Webb Amenity Center Hydrology Submittal.

Hi,

Below is the a link to download the digital submittal from the above mentioned project.

Yolanda Padilla Moyer, P.E.

Bohannan Huston, Inc.

Use the following link to download files.

http://sfspublic.bhinc.com/EmailAccess.aspx?tk=TKypadillaD852015124749

NOTE: These files will expire in 14 days from the time this email was generated.

Using Gmail and IE? Please right click on the link and select Open in new window.

Harmon Rita T.

From: Michael Balaskovits <mbalaskovits@bhinc.com>
Sent: Friday, May 08, 2015 9:40 AM
To: Harmon Rita T.; Rael, Rudy E.
Cc: 'Miriam Hicks'
Subject: Sawmill Crossing (Madera Crossing) COA Hydro File # H13/D025A
Attachments: COA Bldg Prmt Approval 5-16-08.pdf

Good morning Rita and Rudy. I'm emailing you guys concerning a building permit set that was submitted and received a comment from hydrology noting that the grading and drainage plan had not been submitted and reviewed. I wanted to let you know that a grading and drainage was submitted for this development back in 2008 and approved for the entire development. These buildings have been constructed based on funding availability and have not changed from what was previously submitted. I've attached the approval letter for reference and the building permit includes this same Grading and Drainage Plan stamped and signed 5-16-2008 along with this letter. I believe that the building permit sets are located in the large conference room in permitting and ready for your review and sign off. Please let me know if there is still an issue with signing off on these plans for building permit or if they are acceptable as is. Thank you!

Mike Balaskovits, P.E., LEED AP
Project Manager
Community Development and Planning
Bohannan Huston
Courtyard I
7500 Jefferson St. NE
Albuquerque, NM 87109-4335
www.bhinc.com
voice: 505.823.1000 **facsimile:** 505.798.7988 **toll free:** 800.877.5332

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toll free: 800.877.5332

May 8, 2015

Ms. Rita Harmon
Hydrology Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Amenity Center Grading and Drainage Resubmittal

Dear Rita:

Enclosed is a resubmittal for a revised Grading and Drainage Plan for the Del Webb Amenity Center to address your comments below.

1. Provide a pond within Basin A-1 to address 1st flush.

    - A pond has been created with the large median of this Basin. Four curb cuts have been added to the median. Three on the upstream side to capture flow and one on the downstream to allow the overflow to be released. The required 1st flush volumes is 396 cf and the pond has a capacity of 416 cf.

2. Show the capacity of the downstream inlets in Mirehaven Blvd and Tierra Pintada due to the additional 3.15cfs from the Amenity Center Site.

    - Appendix A includes all the necessary analysis and backup information from previous reports to support the additional 3.15cfs with Mirehaven Pkwy.

        - A-1: OVERALL BASIN MAP FOR MIREHAVEN MASTER DRAINAGE PLAN
        - A-2: MIREHAVEN PKWY INLET SCHEMATIC (a markedup copy of the original schematic provide in the DMP for Pulte @ Mirehaven Phase 1 dated December 2013)
        - A-3: MIREHAVEN PKWY PLAN AND PROFILE SHEET
        - A-4: MIREHAVEN BLVD STREET SECTION CAPACITY (original copy marked up with additional flow)EXCERPT from the DMP for Pulte @ Mirehaven Phase 1 dated December 2013-
        - A-5: INLET NOMOGRAPH FOR INLET AT MIREHAVEN PKWY
        - A-6: TIERRA PINTADA SD PLAN AND PROFILE FOR MIREHAVEN INLET CONNECTION
        - A-7 to A-8: INROADS STORM DRAIN ANALYSIS FOR ADDITIONAL FLOW
        - A-9: STORM DRAIN HGL ELEVATIONS

SHOULD BE 5.6 cfs

- The additional 3.15cfs from the Amenity Center site is discharged into Mirehaven Pkwy where it will be collect by a Double "A" Inlet at the downstream end of Mirehaven Parkway just upstream of Tierra Pintada. This additional flow of Q=3.15 cfs will combine with the flow (Q=10.9cfs) Basin D-1 (from DMP for Pulte @ Mirehaven Phase 1 – Appendix A-1) for a total combined flow of 14.05cfs. Based on Appendix A-4 and A-5, the inlet will take Q100=7.27 with a Qres=6.78cfs. This flow will combine with the residual flow Qres =3.00 cfs from the south side of Mirehaven Pkwy for a total Qres = 9.78cfs into Tierra Pintada.

  The total Q=7.27cfs collected by the above inlet is charged via a 24" SD which ties directly to the 3-90" SD within Tierra Pintada at the Mirehaven Arroyo Crossing. Per Appendix A-6, A-7, A-8 and A-9, the flow within the pipe increases from Q=10.9 cfs to Q=12.27cfs. The additional flow within the pipe has minimal inpact on the hydraulics of the pipe system. The HGL increases from 5300.46 to 5300.50 at the upstream side where the downstream stays the same of the 5292.25 from the HGL within the 3-90" pipes.

- Appendix B includes all the necessary analysis and backup information from previous reports to support the additional 3.15cfs with Tierra Pintada Blvd.

  - B-1, B-2, B-3, B-4: TIERRA PINTADA BLVD PLAN AND PROFILE SHEETS
  - B-5: PROPOSED BASIN MAP FROM DAR REPORT FOR BASALT VIEW ST, LADERA BLVD& PRIETA VISTA BLVD dated June15, 2000 revised October 12, 2000.
  - B-6: BASIN TABLE FROM DAR REPORT FOR BASALT VIEW ST, LADERA BLVD& PRIETA VISTA BLVD dated June15, 2000 revised October 12, 2000.
  - B-7: TIERRA PINTADA INLET SCHEMATIC (a markedup copy of the original schematic provide in the DAR REPORT FOR BASALT VIEW ST, LADERA BLVD& PRIETA VISTA BLVD dated June15, 2000 revised October 12, 2000 AND DRAINAGE REPORT FOR WATERSHED SUBDIVISION dated April 2004)
  - B-8: TIERRA PINDATA BLVD STREET SECTION CAPACITY (original copy mark ups EXCERPT from the DAR REPORT FOR BASALT VIEW ST, LADERA BLVD& PRIETA VISTA BLVD dated June15, 2000 revised October 12, 2000 AND DRAINAGE REPORT FOR WATERSHED SUBDIVISION dated April 2004

  - As mentioned in the above sections, there is a total combined residual flow of Qres=9.78cfs from Mirehaven Pkway. As shown in Appendix B-1 through B-4, the intersection of Mirehaven Pkwy with Tierra Pintada is at approximate Station 95+00, which is north of the

high point within Tierra Pintada at Sta. 92+37.32, therefore the residual flow will travel north and east toward Unser Blvd. Appendix B-5 and B-6 show the existing Basin C has Q100=34.37cfs with half of this being split between the two side of the road for a Q100=17.19cfs for each side. As shown in Appendix B-8, an additional Q=10cfs was added to the Left half of the roadway to accommodate any residual flow from the upstream basins. The residual from Mirehaven Pkwy is Q=9.78cfs which is less than the Q=10cfs provided, therefore no additional analysis is required. Appendix A-7 shows the excerpt of the of the inlet schematic from DRAINAGE REPORT FOR WATERSHED SUBDIVISION dated April 2004 which is a marked up copy of the original from DAR REPORT FOR BASALT VIEW ST, LADERA BLVD& PRIETA VISTA BLVD dated June15, 2000 revised October 12, 2000

Also enclosed is a revised Conceptual Grading and Drainage Plan with the new pond added in Basin A-1 as well as updated language on the Drainage plan to reflect the additional pond.

I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

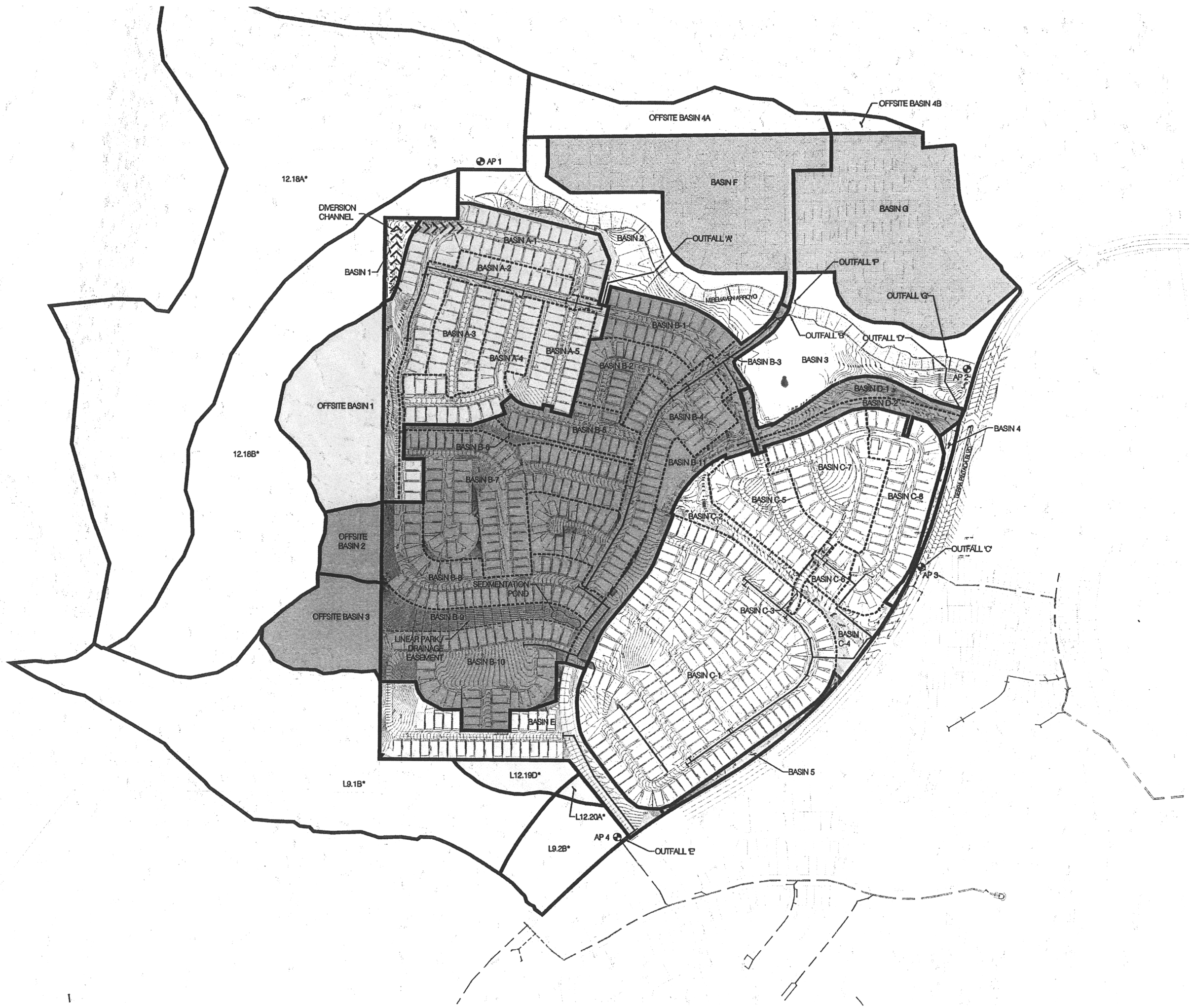
Enclosure

cc: Kevin Patton, Pulte Homes

DRAINAGE MASTER PLAN FOR THE MIREHAVEN MASTER PLANNED COMMUNITY

OVERALL BASIN MAP

11/2013



BASIN I.D.	AREA (AC)	Q (CFS) 100YR
Offsite Basin 1	12.8	19.8
Offsite Basin 2	3.5	5.8
Offsite Basin 3	7.6	16.3
Offsite Basin 4A	9.9	17.3
Offsite Basin 4B	1.1	1.9
12.18B	42.0	65.0
Basin A-1	12.4	40.3
Basin A-2	7.2	23.4
Basin A-3	4.4	14.3
Basin A-4	7.0	22.8
Basin 4-5	5.1	16.6
Basin B-1	6.0	18.3
Basin B-2	4.9	15.0
Basin B-3	1.4	5.6
Basin B-4	13.6	44.2
Basin B-5	4.0	13.0
Basin B-6	1.3	3.4
Basin B-7	16.2	52.7
Basin B-8	9.5	30.9
Basin B-9	3.8	12.4
Basin B-10	12.5	40.7
Basin B-11	6.9	21.4
Basin C-1	39.6	128.8
Basin C-2	2.7	7.1
Basin C-3	0.4	1.7
Basin C-4	2.5	6.6
Basin C-5	6.5	21.1
Basin C-6	1.4	4.6
Basin C-7	8.4	27.3
Basin C-8	9.2	29.9
Basin D-1	3.0	10.9
Basin D-2	2.2	8.0
Basin E	11.6	37.7
Basin F	21.5	69.9
Basin G	26.0	84.6
Basin 1	1.4	4.4
Basin 2	15.8	44.7
Basin 3	18.2	49.0
Basin 4	2.5	6.6
Basin 5	1.4	3.7

OUTFALL I.D.	SIZE (IN)	Q (CFS) 100YR
A	48	137.3
B	60	277.6
C	66	238.2
D	24	10.9
E	30	37.7
F	42	87.2
G	42	86.6

LEGEND

- BASIN BOUNDARY
- SUB BASIN BOUNDARY
- FUTURE / PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- DIVERSION CHANNEL

* BASIN FLOWS ARE FROM THE "WEST I-40 DPM". THE EXISTING, UNDEVELOPED PORTIONS OF BASIN 12.18 HAS BEEN SPLIT INTO TWO BASINS, 12.18A AND 12.18B. BASIN 12.18B WILL BE INTERCEPTED BY A DIVERSION SWALE THAT WILL BE LOCATED IN BASIN 1.

ANALYSIS POINT	Qallowable (CFS)
1	1373****
2	1495*****
3	375***
4	216**

** PER "DRAINAGE ANALYSIS REPORT FOR ARROYO VISTA BLVD & TIERRA PINTADA BLVD", APRIL 4, 2012

*** PER "DRAINAGE REPORT FOR STORMCLOUD SUBDIVISION", MAY 27, 2005

****UPSTREAM FLOWS ARE FROM "WEST I-40 DMP UPDATE 2011", DECEMBER 2011

***** PER TECHNICAL MEMORADANDUM "PRELIMINARY HYDRAULIC ANALYSIS FOR MIREHAVEN ARROYO CROSSING", JANUARY 10, 2012.

N

300 150 0 300

SCALE: 1"=300'

Bohannan Huston

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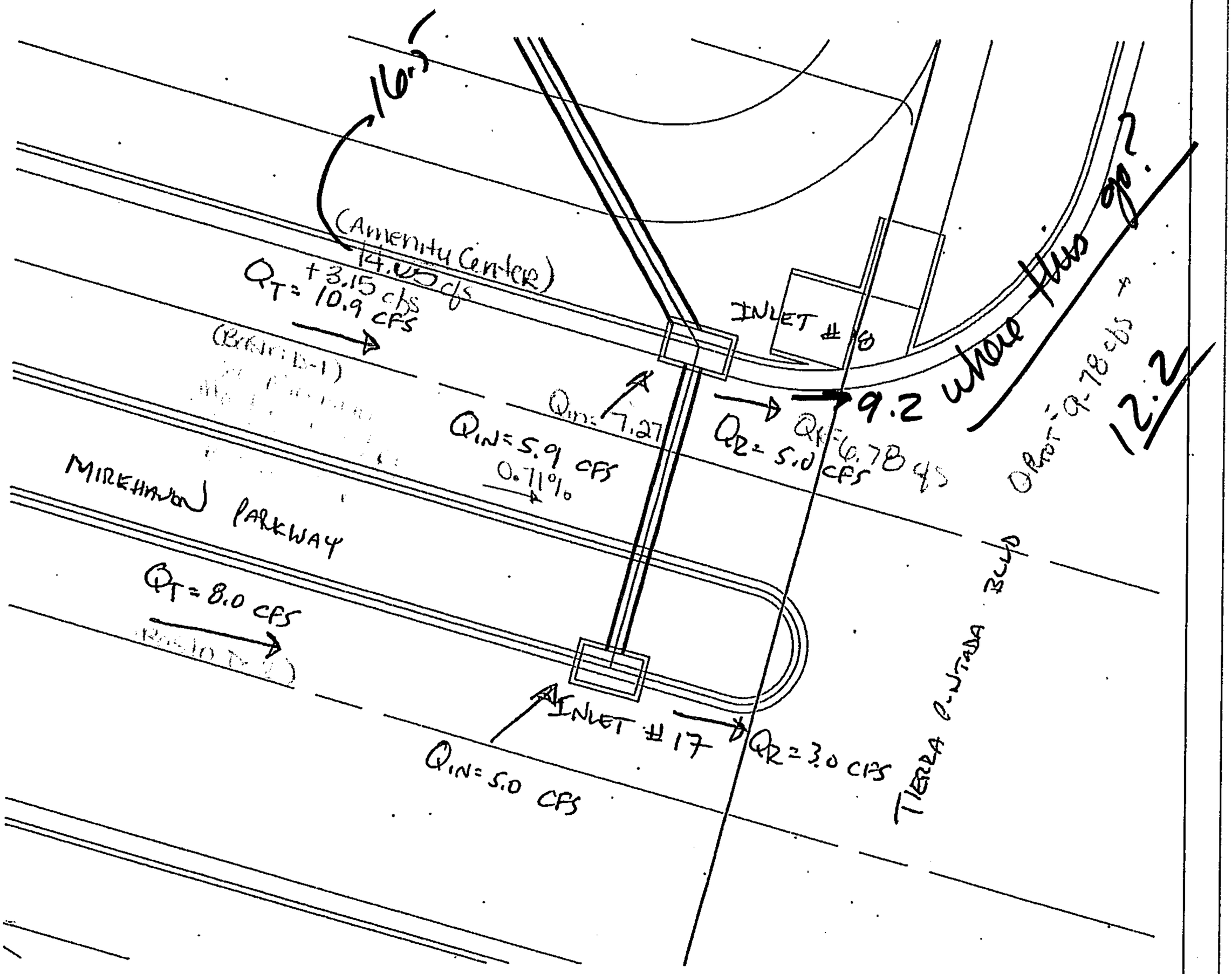
Tue, 19-Nov-2013 - 11:11:am, Plotted by: AROMERO
P:\20130375\CDP\Plans\General\Drainage Master Plan\20130375OverallBasins.dwg

A-1


16.5
(Amenity Center)
14.05 cfs
+3.15 cfs
Q_T = 10.9 CFS
INLET # 18
9.2 where this go?
12.2
Q_{IN} = 7.27
Q_R = 6.78 cfs
Q_R = 5.0 CFS
Q_{IN} = 5.9 CFS
0.71%
Q_{tot} = 9.78 cfs
MIRENAUN PARKWAY
Q_T = 8.0 CFS
INLET # 17
Q_R = 3.0 CFS
Q_{IN} = 5.0 CFS
TIERRA ALTADA BLVD

A-2

A-3

MIREHAVEN PARKWAY (NORTH) CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C2	409.98'	375.00'	62°38'25"	228.18'
C3	99.54'	450.00'	12°08'51"	49.95'

MIREHAVEN PARKWAY (NORTH) CL Tangent Table		
ID	BEARING	LENGTH
T3	S62°38'25"E	179.55'
T4	S74°49'16"E	411.55'

MEDIAN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
MC5	397.95'	264.00'	62°38'25"	221.19'
MC6	511.22'	661.00'	44°18'46"	269.16'
MC7	97.87'	461.00'	12°09'51"	49.13'

MEDIAN Tangent Table		
ID	BEARING	LENGTH
MT9	N62°38'25"W	179.55'
MT10	N74°49'16"W	145.16'
MT11	N74°49'16"W	39.53'
MT12	N88°37'31"E	8.23'
MT13	N74°49'16"W	11.00'
MT14	N59°16'03"W	8.23'
MT15	S74°49'41"E	6.09'

MIREHAVEN PARKWAY (NORTH) CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C5	522.71'	650.00'	44°18'46"	274.86'

MIREHAVEN PARKWAY (NORTH) CL Tangent Table		
ID	BEARING	LENGTH
T7	S74°49'16"E	595.99'

MIREHAVEN PARKWAY (SOUTH) RIGHT TURN LANE CURB Point Table			
○	STATION	OFFSET	ELEVATION
97	20+57.10	11.00' RT	5348.92
98	20+93.51	16.00' RT	5348.85
99	21+33.91	21.00' RT	5348.62
100	22+10.93	21.00' RT	5347.33
101	23+03.94	21.00' RT	5346.16

CURB Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C11	38.84'	150.00'	14°58'05"	19.53'
C12	38.84'	150.00'	14°58'05"	19.53'

CURB Tangent Table		
ID	BEARING	LENGTH
T14	N74°49'16"W	170.02'

(E) FLOWLINE DATA FOR CURB RETURN

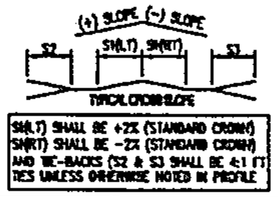
PC	03.53	D = 90°02'45"
1	03.94	R = 30.00'
2	04.38	T = 30.02'
3	04.43	L = 47.15'
PT	04.54	C = 42.44'
PI	04.30	

PC STA. 24+21.84, 41.02' LT
PT STA. 23+91.69, 11.00' LT
PI STA. 24+21.64, 11.00' LT
AND STA. 23+91.69, 41.00' LT

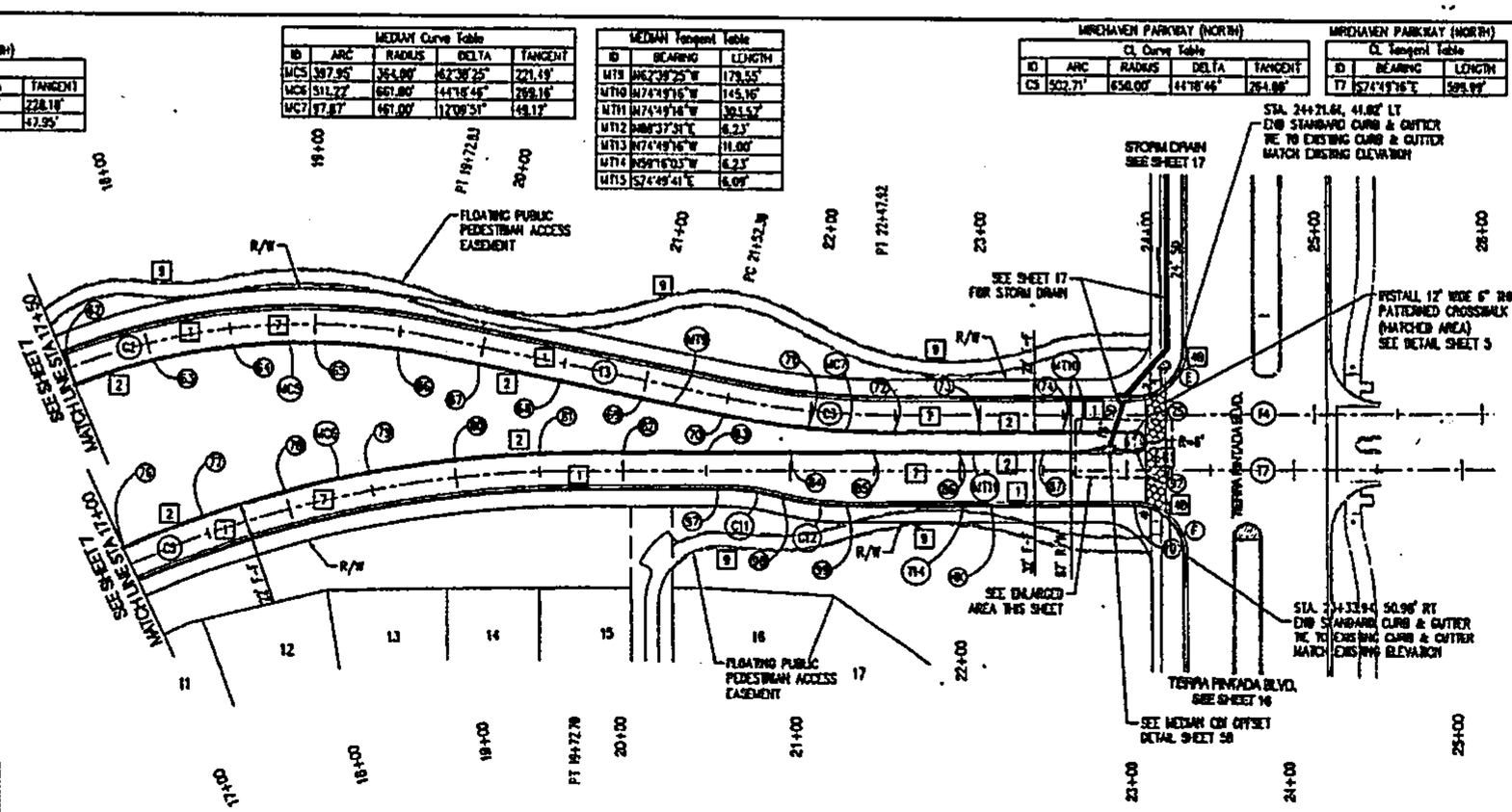
(F) FLOWLINE DATA FOR CURB RETURN

PC	06.18	D = 89°57'15"
1	06.08	R = 30.00'
2	05.98	T = 29.98'
3	06.18	L = 47.10'
PT	06.34	C = 42.41'
PI	05.78	

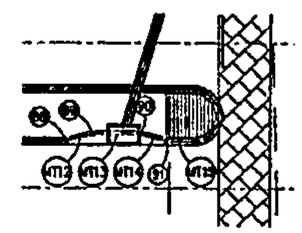
PC STA. 23+83.94, 21.00' RT
PT STA. 23+33.94, 50.98' RT
PI STA. 23+33.91, 21.00' RT
AND STA. 23+83.94, 50.98' RT

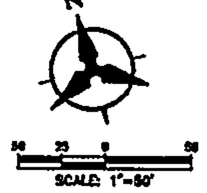


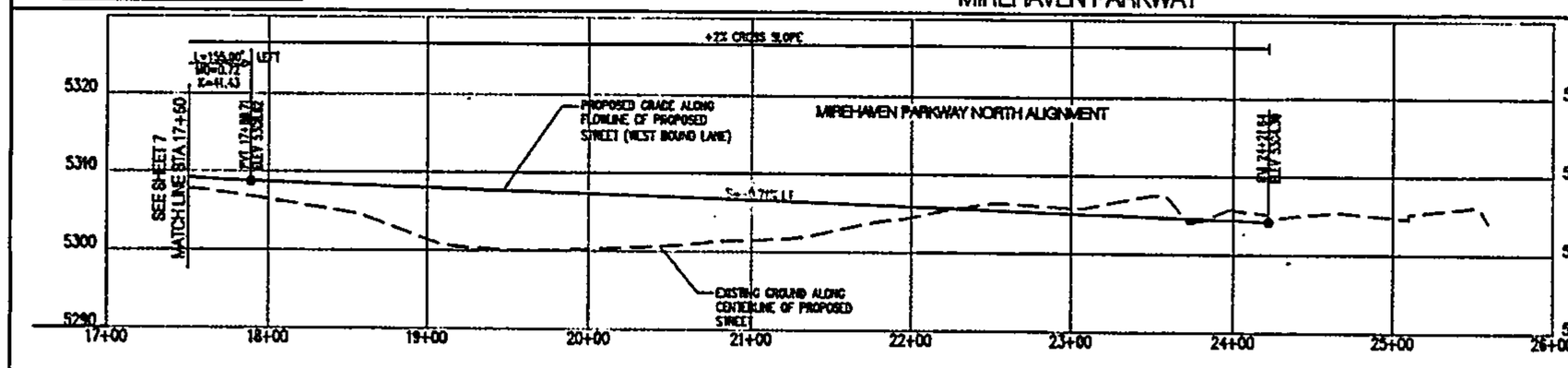
SH(LT) SHALL BE +2% (STANDARD CROWN)
SH(RT) SHALL BE -2% (STANDARD CROWN)
AND BC-BACKS (S2 & S3 SHALL BE 4:1 FT DES UNLESS OTHERWISE NOTED IN PROFILE

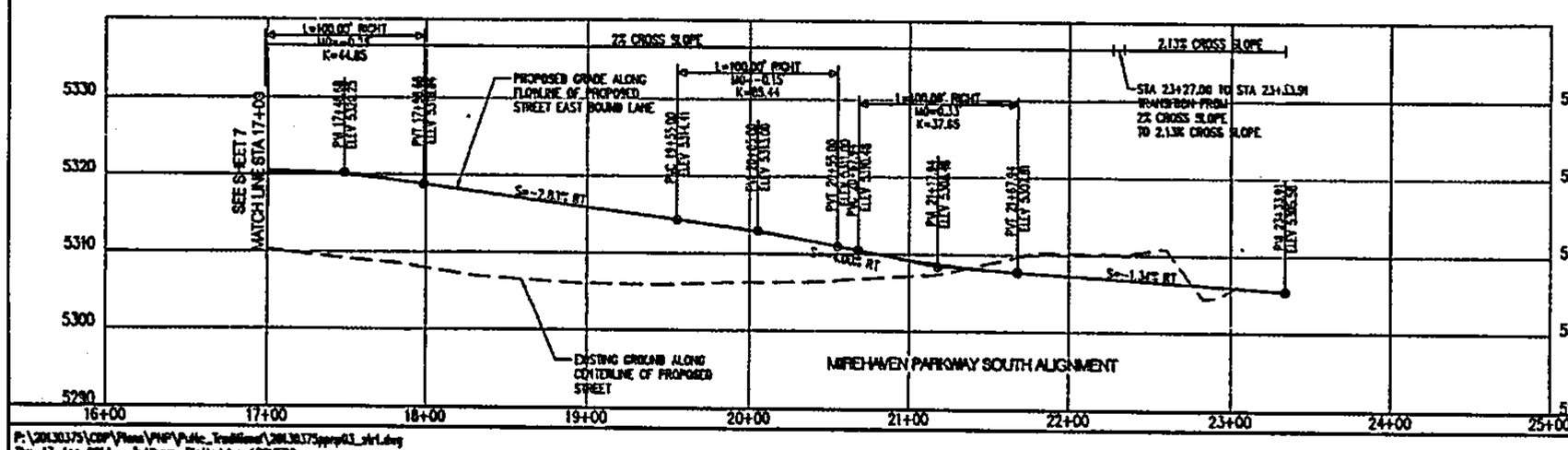


MIREHAVEN PARKWAY









MEDIAN Point Table			
○	STATION	OFFSET	ELEVATION
62	17+50.00	11.00' RT	5309.79
63	18+00.00	11.00' RT	5309.25
64	18+50.00	11.00' RT	5308.88
65	19+00.00	11.00' RT	5308.53
66	19+50.00	11.00' RT	5308.18
67	20+00.00	11.00' RT	5307.82
68	20+50.00	11.00' RT	5307.46
69	21+00.00	11.00' RT	5307.10
70	21+50.00	11.00' RT	5306.75
71	22+00.00	11.00' RT	5306.39
72	22+50.00	11.00' RT	5306.03
73	23+00.00	11.00' RT	5305.68
74	23+50.00	11.00' RT	5305.32
75	23+83.06	11.00' RT	5305.01

MEDIAN Point Table			
○	STATION	OFFSET	ELEVATION
76	17+00.00	11.00' LT	5320.29
77	17+50.00	11.00' LT	5319.60
78	18+00.00	11.00' LT	5318.54
79	18+50.00	11.00' LT	5317.13
80	19+00.00	11.00' LT	5315.71
81	19+50.00	11.00' LT	5314.30
82	20+00.00	11.00' LT	5312.76
83	20+50.00	11.00' LT	5310.94
84	21+00.00	11.00' LT	5309.08
85	21+50.00	11.00' LT	5307.84
86	22+00.00	11.00' LT	5307.12
87	22+50.00	11.00' LT	5306.45
88	22+78.22	11.00' LT	5306.10
89	22+82.22	12.67' LT	5308.52
90	22+93.22	12.67' LT	5308.37
91	22+99.22	11.00' LT	5305.79
92	23+05.31	11.00' LT	5305.71

P:\20130375\CDP\Plans\PNP\P-Mic_Trad6lane\20130375pprp03_alt1.dwg
Tue, 17-Apr-2014 - 3:40pm, Plotted by: ARDUERO

BHI JOB NO. 20130375 SCALE: HORIZ. 1"=50' VERT. 1"=10'

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 15' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4"x 4"x 5' POST AND C.M.S. AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB & GUTTER SHALL BE PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. CURB RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
15. GRATE PER MODIFIED COA STANDARD DWG. 2220 SEE DETAIL ON SHEET 5C

KEYED NOTES

1. STD. CURB & GUTTER PER COA STD. DWG. 2415A
2. MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B
3. INSTALL 8' CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420
4. BUILD WHEEL CHAIR RAMP PER DETAIL 'A' SHEET 5
5. BUILD WHEEL CHAIR RAMP PER DETAIL 'B' SHEET 5
6. BUILD WHEEL CHAIR RAMP PER DETAIL 'C' SHEET 5
7. BUILD 4' SIDEWALK PER COA STD. DWG. 2430.
8. BUILD 4' TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 6' MIN. WIDTH F-F AS SHOWN ON PLANS (BAJA RED) MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT. PER COA STD. DWG. 2480 & 2482
9. PAVEMENT DESIGN SECTION SEE SHEET 5
10. MOUNTABLE CURB ROLL TYPE PER COA STD. DWG. 2415A
11. PEDESTRIAN TRAIL SEE SHEETS 35-40
12. 4' SIDEWALK DEFERRED
13. BUILD 6' SIDEWALK PER COA STD. DWG. 2430
14. VALLEY GUTTER PER COA STD. DWG. 2441
15. 6' WIDE CURB OPENING SEE DETAIL SHEET 5A

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER C.O.A. STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

STORM DRAIN LINE TO BE CLASS III RCP UNLESS OTHERWISE NOTED

Bohannan Huston
www.bhinc.com 800.877.5332

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
WORK CHECKED BY
FIELD VERIFICATION BY
DRAWINGS MARKED BY
DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION
RECEIVED BY
DATE

BENCH MARKS
USC&GS BRASS DISC STAMPED "RICHARD 1969"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1487364.063 E=1491190.819
GROUND TO GRID = 0.999672005
DELTA ALPHA = -00°17'12.36"
NAVD 1988 ELEVATION = 5319.888

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
BULLS & PARTNERS
4-17-14

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY BCP DATE 04/2014
DRAWN BY: AR DATE 04/2014
CHECKED BY: BCP DATE 04/2014

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PULTE @ MIREHAVEN PHASE 1
PAVING PLAN & PROFILE
MIREHAVEN PARKWAY

DESIGN REVIEW COMMITTEE — APPROVED MAY 08 2014 DESIGN REVIEW COMMITTEE
CITY ENGINEER — APPROVED MAY 21 2014 CITY ENGINEER
LAST DESIGN UPDATE
NO./DATE NO./DATE

CITY PROJECT NO. 650381 | ZONE MAP NO. H-8/9 | SHEET 8 OF 40

MANNING'S N = 0.017 SLOPE = 0.007

POINT	DIST	ELEV	POINT	DIST	ELEV	POINT	DIST	ELEV
1.0	0.0	0.9	4.0	11.0	0.0	7.0	33.0	0.5
2.0	10.4	0.7	5.0	13.0	0.1	8.0	33.2	1.0
3.0	10.8	0.7	6.0	32.2	0.5			

WSEL FT.	DEPTH INC	FLOW AREA SQ.FT.	FLOW RATE (CFS)	WETTED PER (FT)	FLOW VEL (FPS)	TOPWID PLUS OBSTRUCTIONS	TOTAL ENERGY (FT)
0.050	0.050	0.020	0.012	0.822	0.609	2.062	0.056
0.100	0.100	0.078	0.076	1.645	0.967	2.844	0.115
0.150	0.150	0.183	0.201	3.168	1.100	4.327	0.169
0.200	0.200	0.399	0.496	5.743	1.244	6.862	0.224
0.250	0.250	0.741	1.089	8.317	1.469	9.397	0.284
0.300	0.300	1.210	2.061	10.891	1.703	11.932	0.345
0.350	0.350	1.806	3.486	13.466	1.930	14.467	0.408
0.400	0.400	2.529	5.437	16.040	2.150	17.002	0.472
0.450	0.450	3.379	7.977	18.615	2.361	19.537	0.537
0.500	0.500	4.355	11.171	21.189	2.565	22.072	0.602
0.550	0.550	5.451	15.348	22.618	2.852	22.603	0.677
0.600	0.600	6.559	21.103	22.722	3.217	22.633	0.761
0.650	0.650	7.669	27.300	22.826	3.560	22.663	0.847
0.700	0.700	8.817	32.500	24.907	3.686	24.242	0.911
0.750	0.750	10.095	38.067	27.555	3.771	26.854	0.971
0.800	0.800	11.503	44.513	30.204	3.870	29.466	1.033
0.850	0.850	13.041	51.883	32.852	3.978	32.078	1.096

INLET #18

~~d = .677~~

Q = 14.05 d = .53' < .67' ✓

Q = 16.5 d ~ .57

BASIN D-1 - 10.9 CFS

STREET CAPACITY

$$\frac{11.171 - 7.977}{0.602 - 0.537} = \frac{11.171 - 10.9}{0.602 - x} \Rightarrow \frac{3.194}{0.065} = \frac{0.271}{0.602 - x} \Rightarrow 0.016802 = 1.92279 - 3.194x$$

x = 0.60' < 0.87' ✓ ok

INLET CAPACITY

$$\frac{11.171 - 7.977}{0.50 - 0.45} = \frac{11.171 - 10.9}{0.5 - x} \Rightarrow \frac{3.194}{0.05} = \frac{0.271}{0.5 - x} \Rightarrow 0.01355 = 1.597 - 3.194x$$

d = 0.50'

@ S = 0.71%, d = 0.50'

DOUBLE GRATE

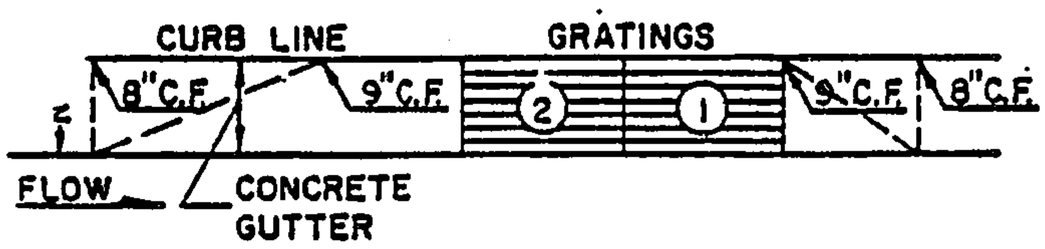
@ 0.2% - 4.5 CFS 5.4

2% - 9.5 CFS 12

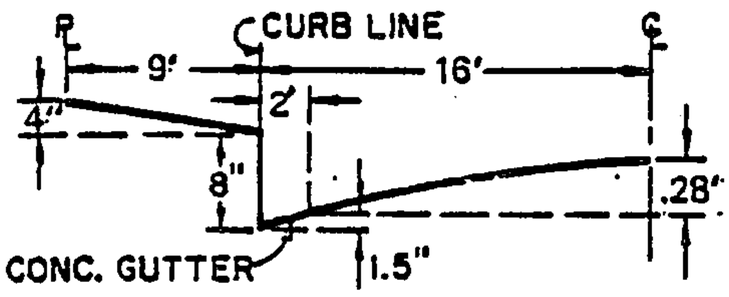
$$\frac{2 - 0.2}{9.5 - 4.5} = \frac{2 - 0.71}{9.5 - x} \Rightarrow \frac{1.8}{5} = \frac{1.29}{9.5 - x} \Rightarrow 6.45 = 17.1 - 1.8x \Rightarrow x = 5.9 \text{ CFS}$$

∴ 10.9 CFS - 5.9 CFS ⇒ RESIDUAL FLOW = 5 CFS

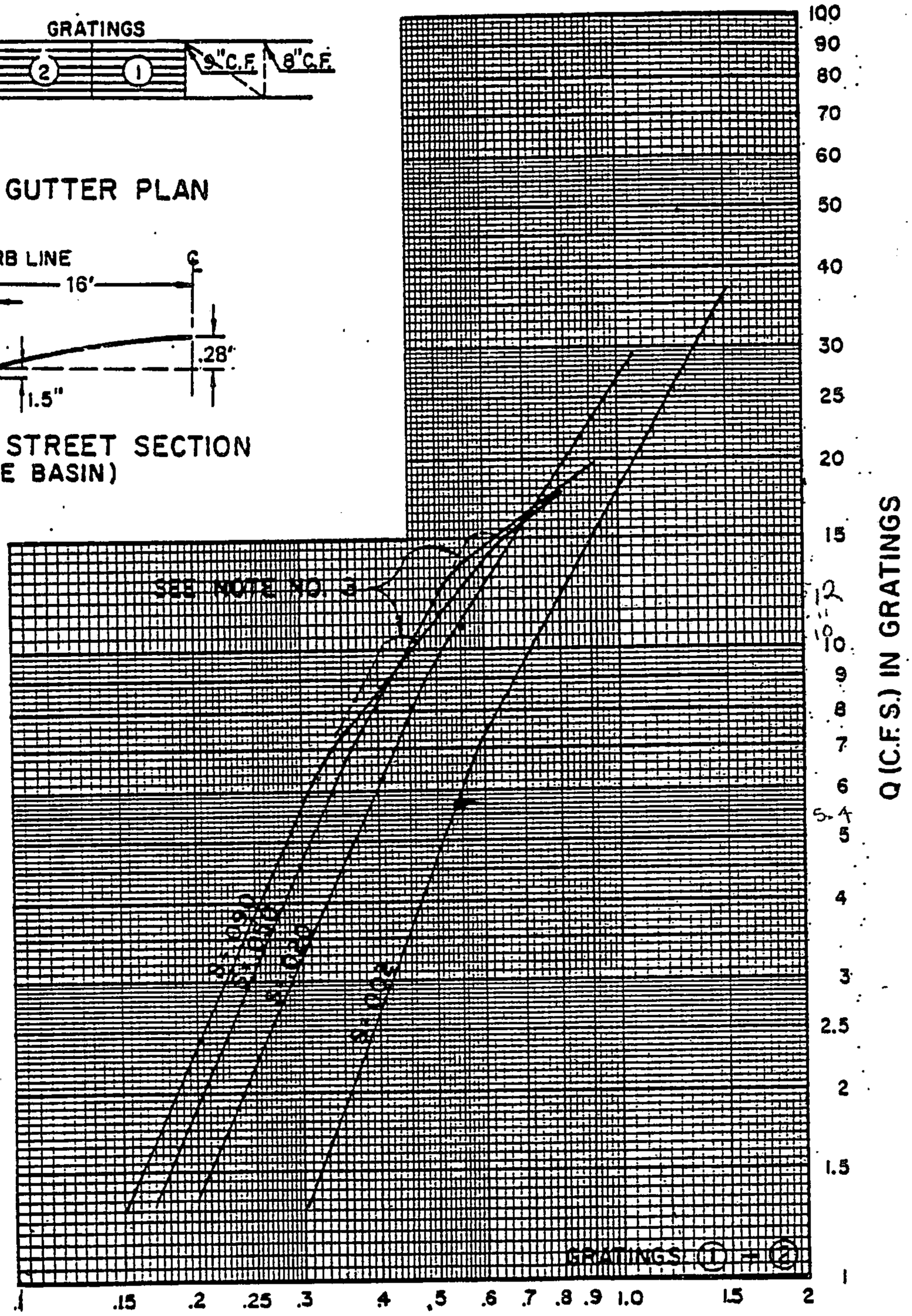
GRATING CAPACITIES FOR TYPE DOUBLE "C," AND "D"



GRATING & GUTTER PLAN



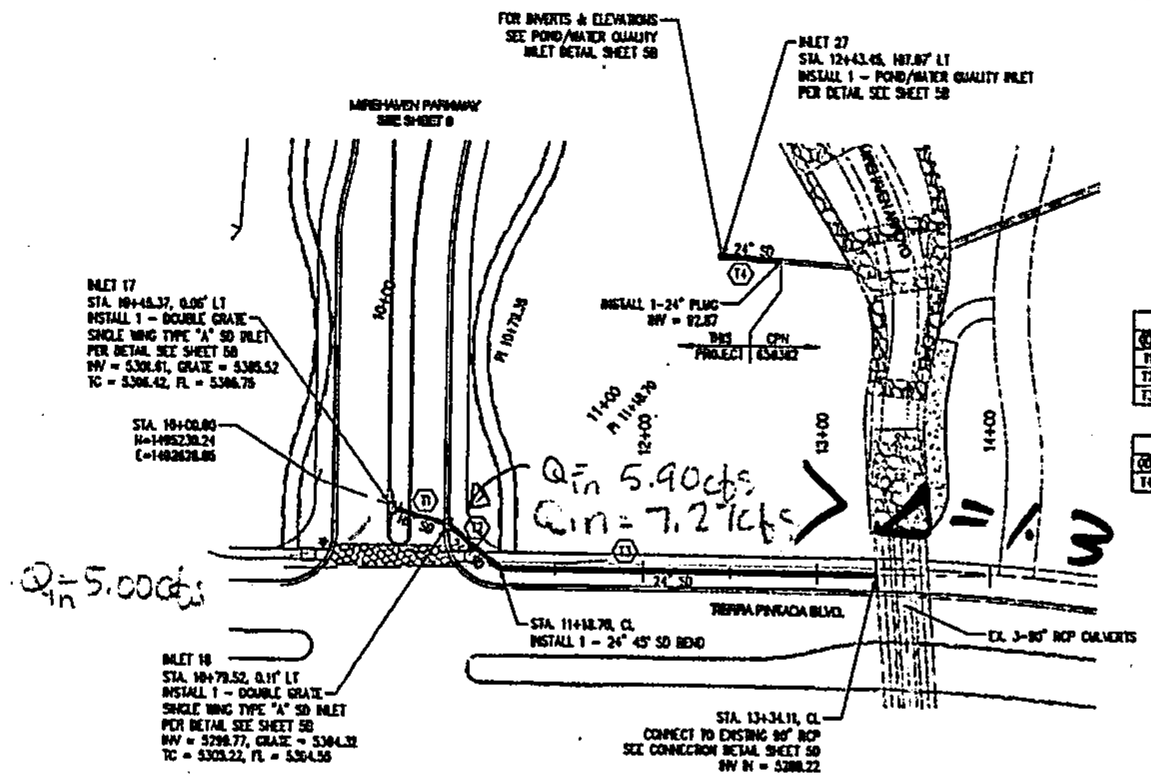
TYPICAL HALF STREET SECTION
(ABOVE BASIN)



.2% @ .53 Q in = .54 cfs
2% @ .53 Q in = 12 cfs

Q_{in} = 7.27 cfs

A-5

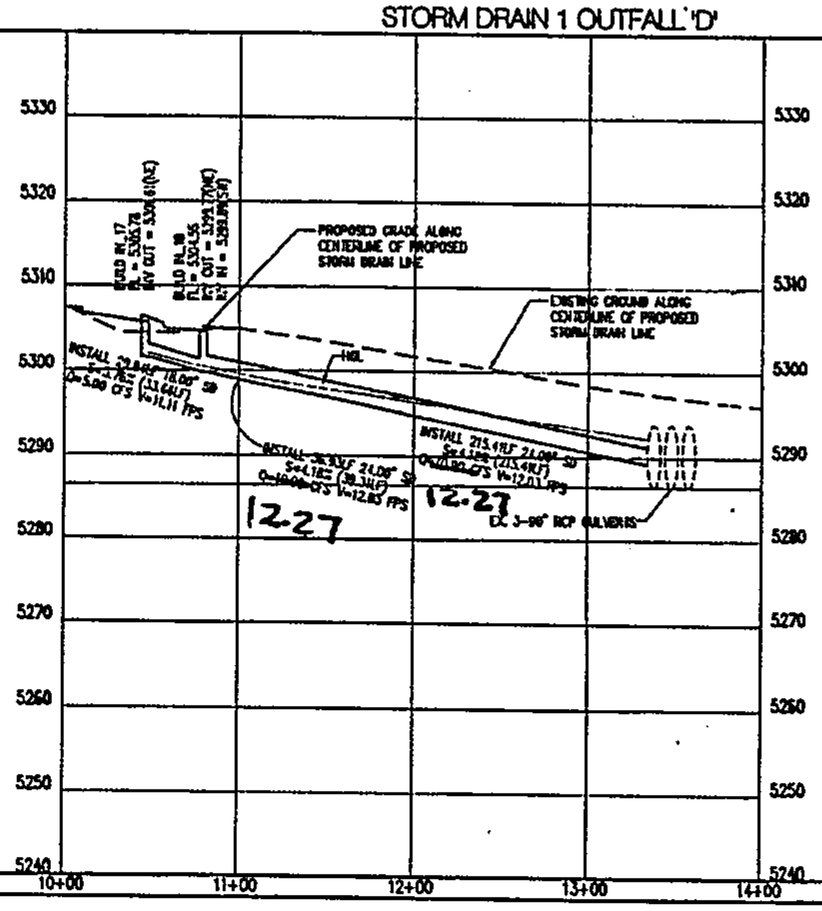


SD Tangent Table		
ID	BEARING	LENGTH
T1	S34°08'08"W	34.16'
T2	S54°59'20"W	39.34'
T3	S15°11'00"W	215.41'

SD Tangent Table							
ID	BEARING	LENGTH	Q (cfs)	V (ft/s)	d (ft)	SIZE	SLOPE
T4	S39°19'59"W	33.83'	39.5	11.0	1.3	24"	4.0%

SCALE: 1"=60'

STORM DRAIN 1 OUTFALL 'D'



P:\20130375\CDP\Plans\PRP\Pulte_Traditional\20130375pprp12_sdf.dwg
Thu, 17-Apr-2014 - 3:58 pm, Plotted by: AROMERO

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BHI JOB NO. 20130375

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 15' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4"x 4"x 5' POST AND E.I.L.S. AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY COMPANIES AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING WORK.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
11. REMOVAL OF THE EXISTING CURB & GUTTER SHALL BE PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. CURB RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE CAULKED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
15. GRATE PER MODIFIED COA STANDARD DWG. 2220 SEE DETAIL ON SHEET 5C

KEYED NOTES

- (1) STD. CURB & GUTTER PER COA STD. DWG. 2415A
- (2) MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B
- (3) INSTALL 6' CONCRETE VALLEY GUTTER PER COA STD. DWG. 2430
- (4) BUILD WHEEL CHAIR RAMP PER DETAIL 'A' SHEET 5
- (5) BUILD WHEEL CHAIR RAMP PER DETAIL 'B' SHEET 5
- (6) BUILD WHEEL CHAIR RAMP PER DETAIL 'C' SHEET 5
- (7) BUILD 4' SIDEWALK PER COA STD. DWG. 2430.
- (8) BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 6' MIN. WIDTH F-F AS SHOWN ON PLANS (BLACK DOT) MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT. PER COA STD. DWG. 2408 & 2502
- (9) PAVEMENT DESIGN SECTION SEE SHEET 5
- (10) MOUNTABLE CURB ROLL TYPE PER COA STD. DWG. 2415A
- (11) PEDESTRIAN TRAIL SEE SHEETS 38-40
- (12) 4' SIDEWALK DEFERRED
- (13) BUILD 6' SIDEWALK PER COA STD. DWG. 2430
- (14) VALLEY GUTTER PER COA STD. DWG. 2441
- (15) 6" WIDE CURB OPENING SEE DETAIL SHEET 5A

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 4' DIAMETER TYPE "E" AS PER C.O.A. STANDARD DRAWING 2108 UNLESS OTHERWISE NOTED.

STORM DRAIN LINE TO BE CLASS III RCP UNLESS OTHERWISE NOTED

Bohannan Huston
www.bhinc.com 800.877.5332

AS-BUILT INFORMATION
CONTRACTOR: PULTE GROUP
PREPARED BY: BOHANNAN HUSTON
DATE: 4-17-14
REVISIONS: 1. 2. 3. 4.
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.: DATE:

BENCH MARKS
USC&GS BRASS DISC STAMPED "MERWIN 1969"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1487364.063 E=1491590.619
GROUND TO GRID = 0.999975005
DELTA ALPHA = -00°17'12.26"
NAVD 1988 ELEVATION = 5319.688

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
ROLAND C. PATTERSON NEW MEXICO 10010 PROFESSIONAL ENGINEER
4-17-14

REVISIONS
NO. DATE REMARKS BY
DESIGN
DESIGNED BY BCP DATE 04/2014
DRAWN BY AR DATE 04/2014
CHECKED BY BCP DATE 04/2014

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PULTE @ MIREHAVEN PHASE 1
PAVING PLAN & PROFILE
STORM DRAIN 1 OUTFALL 'D'

DESIGN REVIEW COMMITTEE: APPROVED MAY 08 2014 DRC CHAIRPERSON
CITY ENGINEER: APPROVED MAY 21 2014 CITY ENGINEER
LAST DESIGN UPDATE
MO/DAY/YR MO/DAY/YR

CITY PROJECT NO. 650381 | ZONE MAP NO. H-8/9 | SHEET 17 OF 40

A-6

Design Log

==========
InRoads Storm & Sanitary Design Log

Drainage File: P:\20130375\CDP\Control\Data\20130375_Pulte1_SD.sdb

Design File: \\A-ABQ-NAS1\ABQ-USERS\YPADILLA\DOCUMENTS\DRAWING1.DWG

Display Log: \\A-ABQ-NAS1\ABQ-USERS\YPADILLA\DOCUMENTS\design.log

Date: Friday, May 08, 2015 8:26:31 AM
==========

Designing inlet IN 17
WARNING: Inlet forced to capture all flow, ignoring capacity calculations.
WARNING: Pipe Too large for valid connection to inlet.

Results:

Gutter Flow:	5.0000 cfs	Flow From:	Injected Storm
Status:	Fixed		
Inlet Length:	6.5000 ft	Inlet Width:	2.0000 ft
Flow Downstream:	5.0000 cfs	Bypass To:	0.0000 cfs
Percent Cap:	100.0000 %	Capacity:	0.0000 cfs
Spread:	2.2560 ft		
Depth in Gutter:	0.6397 ft	Assigned Bypass:	N/A

Designing pipe SDP 35
WARNING: Full flow velocity is greater than maximum (0.0000)

Results:

Total Flow:	5.0000 cfs	Flow From:	Upstream
Status:	Fixed		
Pipe Width:	18.0000 in	Slope:	0.0610 ft/ft
Depth of Flow:	0.4460 ft	Pipe Height:	18.0000 in
Critical Depth:	0.8600 ft	Flow Status:	Partial
Velocity:	11.3184 ft/s	Capacity:	25.9400 cfs
Froude Number:	3.5211	Flow Regime:	SuperCritical

WARNING: Pipe Too large for valid connection to inlet.
Designing inlet IN 18
WARNING: Inlet forced to capture all flow, ignoring capacity calculations.
WARNING: Pipe Too large for valid connection to inlet.

Results:

Gutter Flow:	7.2700 cfs new flow Mirehaven Blvd	Flow From:	Injected Storm
Status:	Fixed		
Inlet Length:	6.5000 ft	Inlet Width:	2.0000 ft
Flow Downstream:	12.2700 cfs	Bypass To:	0.0000 cfs
Percent Cap:	100.0000 %	Capacity:	0.0000 cfs
Spread:	2.2838 ft		
Depth in Gutter:	0.7949 ft	Assigned Bypass:	N/A

Designing pipe SDP 36
WARNING: Full flow velocity is greater than maximum (0.0000)

Results:

Total Flow:	12.2700 cfs new Combined flow	Flow From:	Upstream
Status:	Fixed		
Pipe Width:	24.0000 in	Slope:	0.0418 ft/ft
Depth of Flow:	0.7030 ft	Pipe Height:	24.0000 in
Critical Depth:	1.2500 ft	Flow Status:	Partial
Velocity:	12.4246 ft/s	Capacity:	46.2516 cfs
Froude Number:	3.0490	Flow Regime:	SuperCritical

WARNING: Pipe Too large for valid connection to inlet.
Designing pipe SDP6
WARNING: Full flow velocity is greater than maximum (0.0000)

Mirehaven Blvd SD to Tierra Pintada SD to 3-90" RCP culvert

Edit/Review Pipe

Pipe | Storm Flow | Sanitary Flow | Design | HGL/EGL | User Data | Styles

Angle: 39^48'20.2223"

Help

Head Loss:	0.0000	ft
Entrance HGL:	5300.4594	ft
Exit HGL:	5298.7899	ft
Entrance EGL:	5302.7087	ft
Exit EGL:	5301.0392	ft

previous flow of 10.90

Edit/Review Pipe

Pipe | Storm Flow | Sanitary Flow | Design | HGL/EGL | User Data | Styles

Angle: 39^48'20.2223"

Help

Head Loss:	0.0000	ft
Entrance HGL:	5300.5024	ft
Exit HGL:	5298.8329	ft
Entrance EGL:	5302.9014	ft
Exit EGL:	5301.2319	ft

new flow of 12.27 ?

Apply | Close | Edit Up... | Edit Down...

Exit HGL is the same at 92.25 at ~~EGL~~ HGL of 3-90" pipes

MEDIAN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C9	38.51'	50.00'	44°07'44"	20.27'
C10	44.80'	150.00'	17°06'38"	22.57'
C11	40.45'	150.00'	15°27'04"	20.35'

SD Tangent Table		
ID	BEARING	LENGTH
T1	S27°04'26"W	48.00'
T2	S86°33'25"W	18.90'

TRACT N-2
WATERSHED SUBDIVISION

STORM DRAIN SHALL BE RCP CLASS III

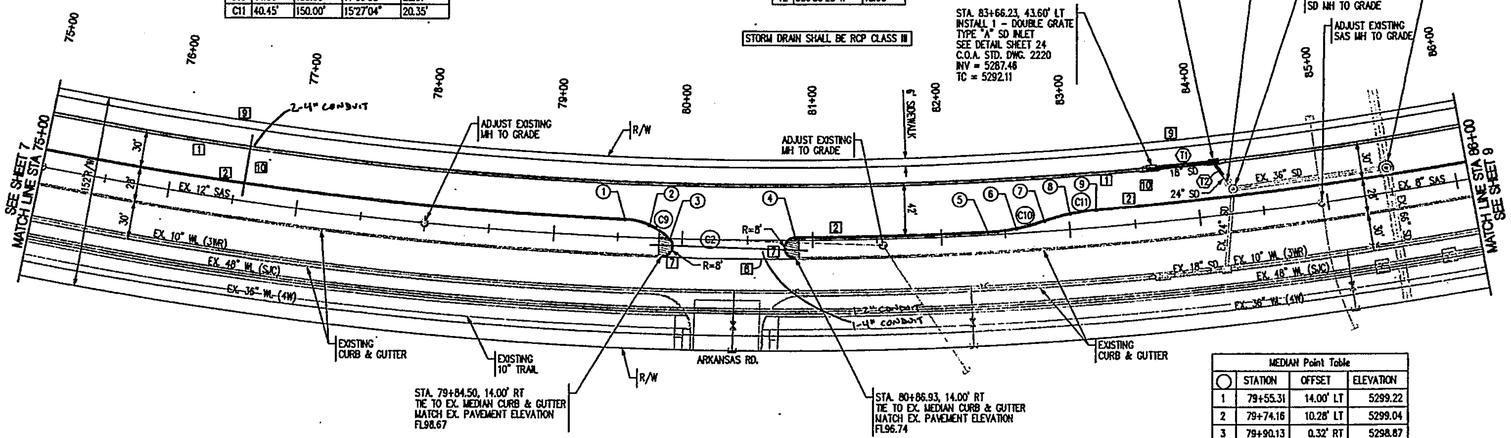
STA. 84+14.96, 44.00' LT
INSTALL 1 - DOUBLE GRATE
TYPE "C" SD INLET
AS PER COA STD. DWGS.
2205 & 2220
INV = 5287.08
TC = 5291.95

STA. 84+24.40, 27.02' LT
REMOVE EXIST. 24" SD PLUG
TIE NEW 24" SD TO EXIST. 24" SD
EX. INV = 5285.99

ADJUST EXISTING
SD MH TO GRADE

ADJUST EXISTING
SAS MH TO GRADE

STA. 83+66.23, 43.60' LT
INSTALL 1 - DOUBLE GRATE
TYPE "A" SD INLET
SEE DETAIL SHEET 24
C.O.A. STD. DWG. 2220
INV = 5287.46
TC = 5292.11



STA. 79+84.50, 14.00' RT
TIE TO EX. MEDIAN CURB & GUTTER
MATCH EX. PAVEMENT ELEVATION
FL98.67

STA. 80+86.93, 14.00' RT
TIE TO EX. MEDIAN CURB & GUTTER
MATCH EX. PAVEMENT ELEVATION
FL96.74

CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C2	2205.32'	2912.00'	43°23'29"	1158.57'

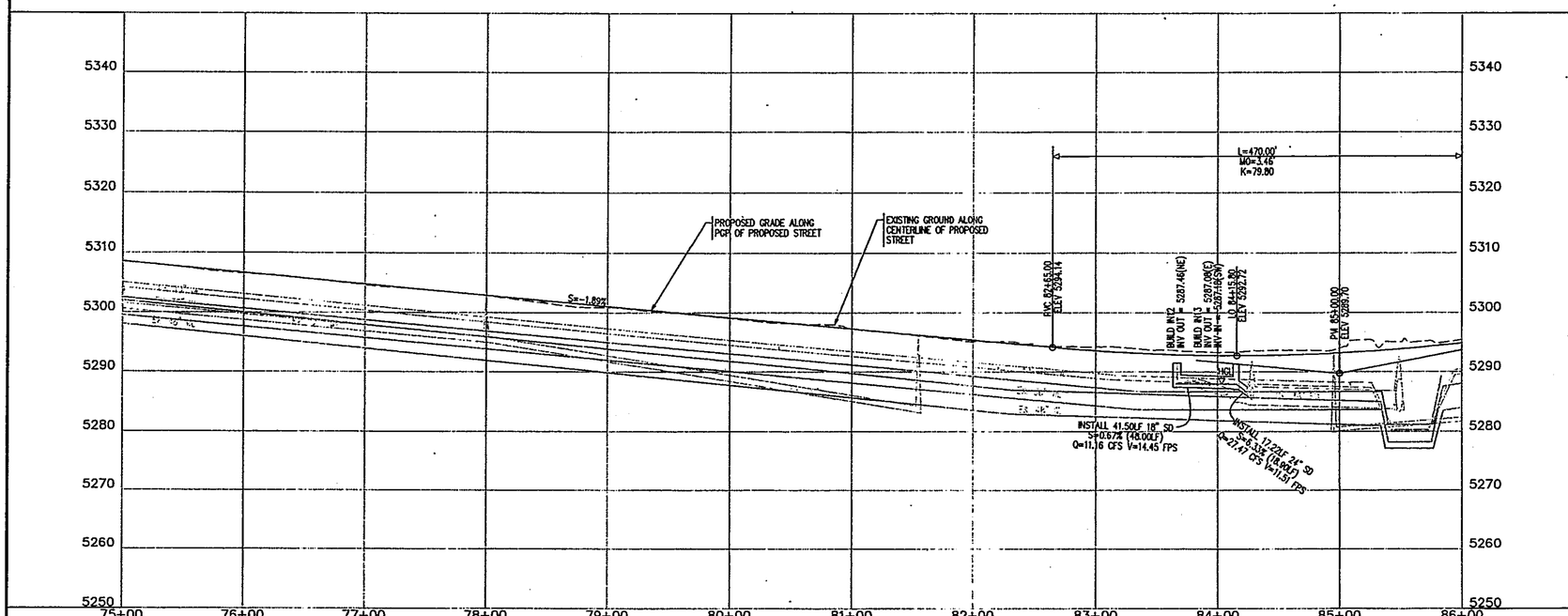
UNIT 3
STORMCLOUD SUBDIVISION

TIERRA PINTADA BLVD.

MEDIAN Point Table			
⊙	STATION	OFFSET	ELEVATION
1	79+55.31	14.00' LT	5299.22
2	79+74.16	10.28' LT	5299.04
3	79+90.13	0.32' RT	5298.87
4	80+86.93	2.00' LT	5296.97
5	82+37.05	2.00' LT	5294.14
6	82+59.39	3.58' LT	5293.69
7	82+81.31	8.30' LT	5293.20
8	83+01.13	12.57' LT	5292.80
9	83+21.39	14.00' LT	5292.51

N

50 25 0 50
SCALE: 1"=50'
(HORIZ.)



P:\20110349\CDP\Plans\PNP\Phase1B\20110349_ppnp03.dgn
4/20/2012

BHI JOB NO. 20110349

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMS AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926. 650 SUBPART P.

KEYED NOTES

1. STD. CURB & GUTTER PER COA STD. DWG. 2415A
2. MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B
3. BUILD 10' ASPHALT TRAIL PER DETAIL SEE SHEET 5
4. BUILD WHEEL CHAIR RAMP PER DETAIL SHEET 24
5. INSTALL 6' CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420
6. 6" MODIFIED EXTRUDED ASPHALT CURB PER COA STD. DWG. 2415B WITH 4" WHITE STRIPE ALONG STREET EDGE OF CURB
7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 6' MIN. WIDTH F-F AS SHOWN ON PLANS (BAJA RED) MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT. PER COA STD. DWG. 2408 & 2502
8. EXISTING EDGE OF PAVEMENT CONTRACTOR SHALL INSURE CLEAN EDGE PRIOR TO PAVING. SAWCUT MAY BE NECESSARY.
9. BUILD 6' SIDEWALK PER COA STD DWG 2430
10. PAVEMENT DESIGN SECTION SEE SHEET 5

FOR INFORMATION ON FLOWLINE AND MEDIAN FLOWLINE CALCULATIONS FROM PROFILE GRADE POINT (PGP) SEE CROSS-SECTION DETAIL ON SHEET 5

AS-BUILT INFORMATION
CONTRACTOR WORK STAKED BY DATE
INSPECTOR ACCEPTANCE BY DATE
CERTIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
USC&GS BRASS DISC STAMPED "REWARD 1969"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1487364.063 E=1431190.819
GROUND TO GRID = 0.999675005
DELTA ALPHA = -00°17'12.26"
NAVD 1988 ELEVATION = 5319.688

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 16035
4-20-12

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YPM DATE 04/2012
DRAWN BY ARR DATE 04/2012
CHECKED BY YPM DATE 04/2012

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

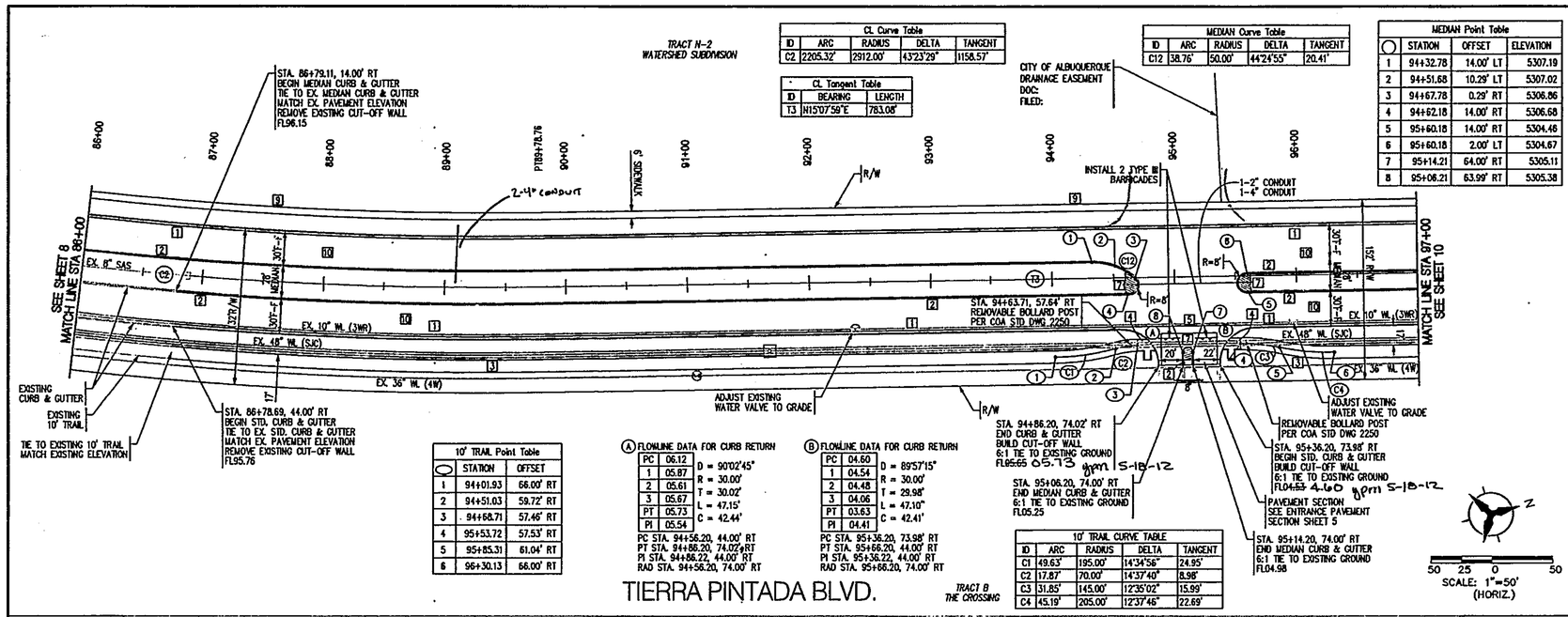
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TIERRA PINTADA PHASE 1
PAVING PLAN & PROFILE
TIERRA PINTADA BLVD.

DESIGN REVIEW COMMITTEE: APPROVED JUL 27 2012 DRC CHAIR
CITY ENGINEER APPROVAL: APPROVED AUG 20 2012 CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. 650272
ZONE MAP NO. J-7,J-8,K-7,K-8
SHEET 8 OF 25

B-1



CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C2	2205.32'	2912.00'	43°23'29"	1158.57'

CL Tangent Table		
ID	BEARING	LENGTH
T3	N15°07'59"E	783.08'

MEDIAN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C12	38.76'	50.00'	44°24'55"	20.41'

MEDIAN Point Table			
	STATION	OFFSET	ELEVATION
1	94+32.78	14.00' LT	5307.19
2	94+51.68	10.29' LT	5307.02
3	94+67.78	0.29' RT	5306.86
4	94+82.18	14.00' RT	5306.68
5	95+60.18	14.00' RT	5304.46
6	95+60.18	2.00' LT	5304.67
7	95+14.21	64.00' RT	5305.11
8	95+08.21	63.99' RT	5305.38

10' TRAIL Point Table		
	STATION	OFFSET
1	94+01.93	66.00' RT
2	94+51.03	59.72' RT
3	94+68.71	57.46' RT
4	95+53.72	57.53' RT
5	95+85.31	61.04' RT
6	96+30.13	66.00' RT

Ⓐ FLOWLINE DATA FOR CURB RETURN

PC	06.12	D = 90°02'45"
1	05.87	R = 30.00'
2	05.61	T = 30.02'
3	05.67	L = 47.15'
PT	05.73	C = 42.44'
PI	05.54	

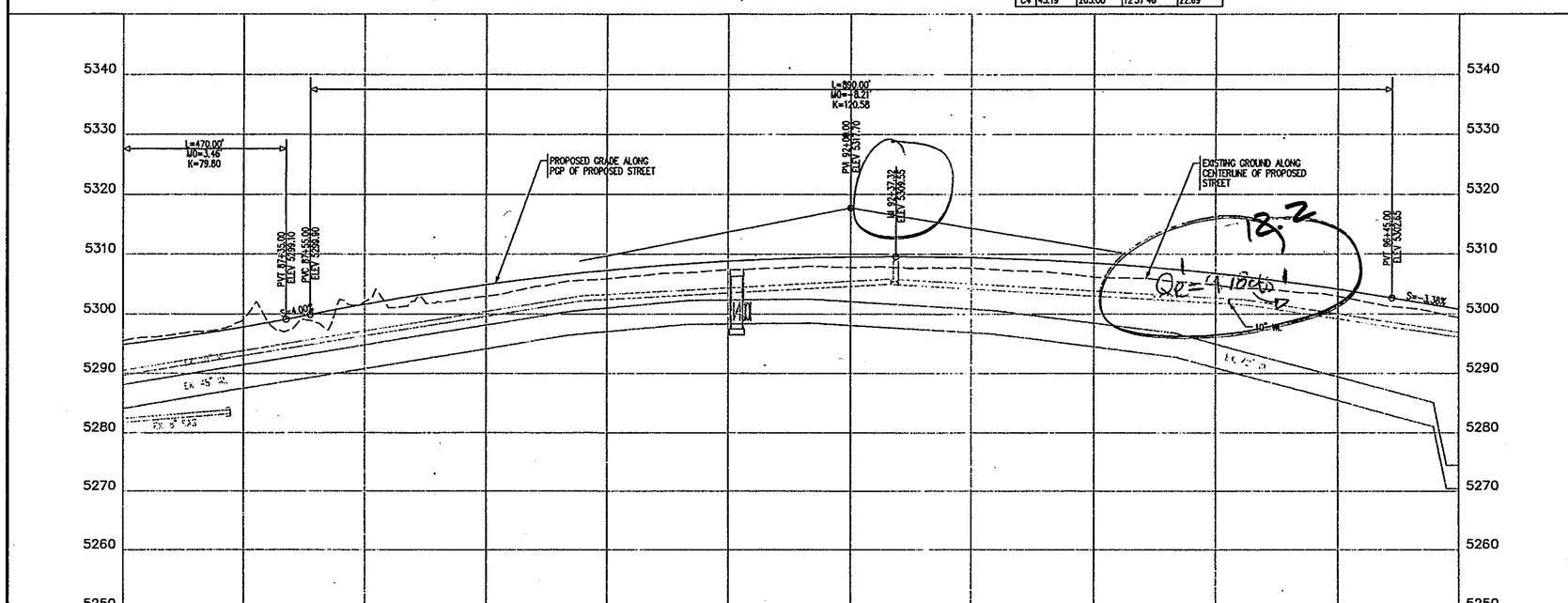
PC STA. 94+56.20, 44.00' RT
PT STA. 94+86.20, 74.02' RT
PI STA. 94+86.22, 44.00' RT
RAD STA. 94+56.20, 74.00' RT

Ⓑ FLOWLINE DATA FOR CURB RETURN

PC	04.60	D = 89°57'15"
1	04.54	R = 30.00'
2	04.48	T = 29.98'
3	04.06	L = 47.10"
PT	03.63	C = 42.41'
PI	04.41	

PC STA. 95+36.20, 73.98' RT
PT STA. 95+66.20, 44.00' RT
PI STA. 95+36.22, 44.00' RT
RAD STA. 95+66.20, 74.00' RT

10' TRAIL CURVE TABLE				
ID	ARC	RADIUS	DELTA	TANGENT
C1	49.63'	195.00'	14°34'56"	24.95'
C2	17.87'	70.00'	14°37'40"	8.98'
C3	31.85'	145.00'	12°35'02"	15.99'
C4	45.19'	205.00'	12°37'46"	22.69'



SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

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4/20/2012

BHI JOB NO. 20110349

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED NOTES

1. STD. CURB & GUTTER PER COA STD. DWG. 2415A
2. MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B
3. BUILD 10' ASPHALT TRAIL PER DETAIL SEE SHEET 5
4. BUILD WHEEL CHAIR RAMP PER DETAIL SHEET 24
5. INSTALL 6' CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420
6. 6" MODIFIED EXTRUDED ASPHALT CURB PER COA STD. DWG. 2415B WITH 4" WHITE STRIPE ALONG STREET EDGE OF CURB
7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 6' MIN. WIDTH F-F AS SHOWN ON PLANS (BAJA RED) MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT. PER COA STD. DWG. 2408 & 2502
8. EXISTING EDGE OF PAVEMENT CONTRACTOR SHALL INSURE CLEAN EDGE PRIOR TO PAVING. SAWCUT MAY BE NECESSARY.
9. BUILD 6' SIDEWALK PER COA STD DWG 2430
10. PAVEMENT DESIGN SECTION SEE SHEET 5

FOR INFORMATION ON FLOWLINE AND MEDIAN FLOWLINE CALCULATIONS FROM PROFILE GRADE POINT (PGP) SEE CROSS-SECTION DETAIL ON SHEET 5

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

AS-BUILT INFORMATION
CONTRACTOR | DATE
REVIEWED BY | DATE
INSPECTOR'S ACCEPTANCE BY | DATE
VERIFICATION OF WORK CORRECTED BY | DATE
MICRO-FILM INFORMATION
RECORDED BY | DATE
NO. | DATE

BENCH MARKS
USC&GS BRASS DISC STAMPED "REWARD 1963"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1457364.063 E=1491190.519
GROUND TO GRID = 0.999675005
DELTA ALPHA = -0017'12.28"
NAVD 1988 ELEVATION = 5319.688

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
YOLANDA PADILLA-HOLLIFIELD
16003
8-20-12

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YPH DATE 04/2012
DRAWN BY ARR DATE 04/2012
CHECKED BY YPH DATE 04/2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TIERRA PINTADA PHASE 1
PAVING PLAN & PROFILE
TIERRA PINTADA BLVD.

DESIGN REVIEW COMMITTEE: PROVED JUL 31 2012 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED AUG 29 2012 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 650272
ZONE MAP NO. J-7,J-8,K-7,K-8
SHEET 9 OF 25

B-2

Ⓒ FLOWLINE DATA FOR CURB RETURN		
PC	81.52	D = 85°29'48"
1	81.28	R = 30.00'
2	81.04	T = 27.73'
3	81.20	L = 44.77'
PT	81.36	C = 40.73'
PI	80.94	

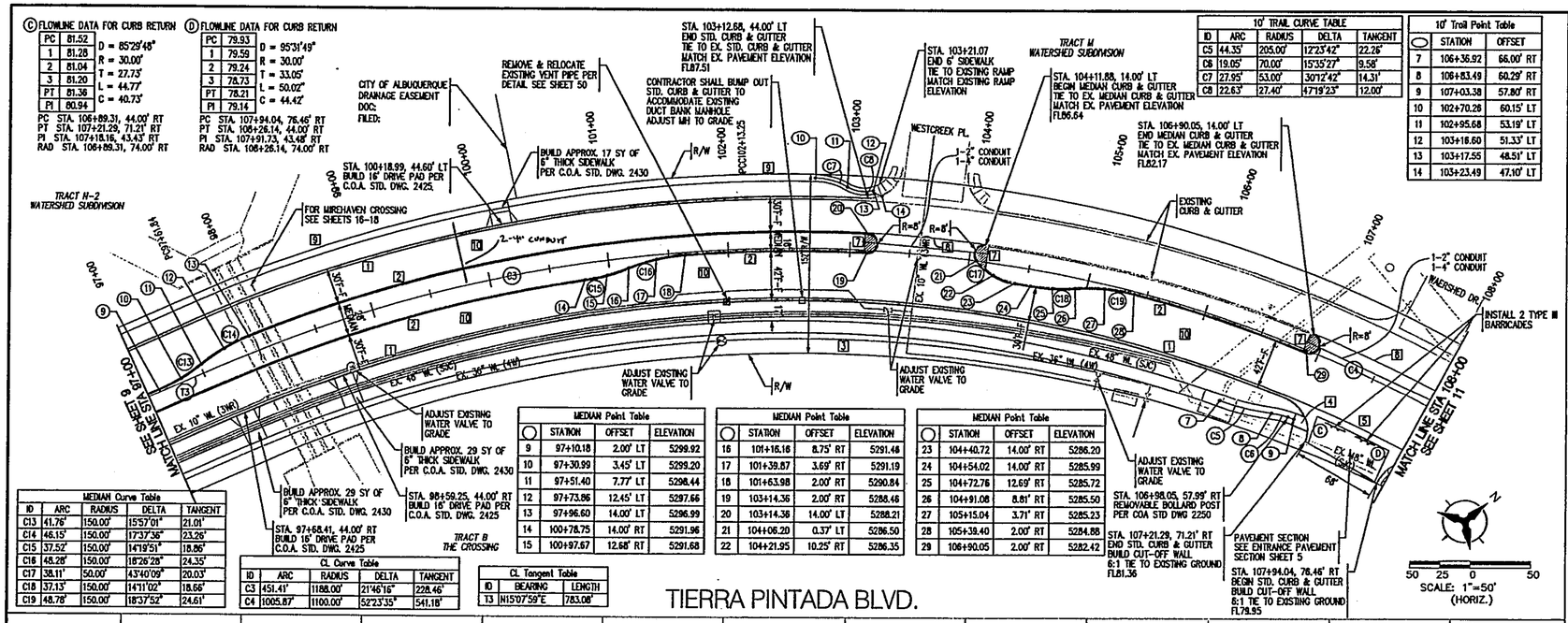
PC STA. 106+89.31, 44.00' RT
PT STA. 107+21.29, 71.21' RT
PI STA. 107+18.16, 43.43' RT
RAD STA. 106+26.14, 74.00' RT

Ⓓ FLOWLINE DATA FOR CURB RETURN		
PC	79.93	D = 95°31'49"
1	79.59	R = 30.00'
2	79.24	T = 33.05'
3	78.73	L = 50.02"
PT	78.21	C = 44.42'
PI	79.14	

PC STA. 107+94.04, 76.46' RT
PT STA. 106+26.14, 44.00' RT
PI STA. 107+91.73, 43.48' RT
RAD STA. 106+26.14, 74.00' RT

10' TRAIL CURVE TABLE				
ID	ARC	RADIUS	DELTA	TANGENT
C5	44.35'	205.00'	12°23'42"	22.26'
C6	19.05'	70.00'	15°35'27"	9.56'
C7	27.95'	53.00'	30°12'42"	14.31'
C8	22.63'	27.40'	47°19'23"	12.00'

10' Trail Point Table		
○	STATION	OFFSET
7	106+36.92	66.00' RT
8	106+83.49	60.29' RT
9	107+03.38	57.80' RT
10	102+70.28	60.15' LT
11	102+95.68	53.19' LT
12	103+16.60	51.33' LT
13	103+17.55	48.51' LT
14	103+23.49	47.10' LT



MEDIAN Point Table			
○	STATION	OFFSET	ELEVATION
9	97+10.18	2.00' LT	5299.92
10	97+30.99	3.45' LT	5299.20
11	97+51.40	7.77' LT	5298.44
12	97+73.86	12.45' LT	5297.66
13	97+96.60	14.00' LT	5296.99
14	100+78.75	14.00' RT	5291.96
15	100+97.67	12.68' RT	5291.68

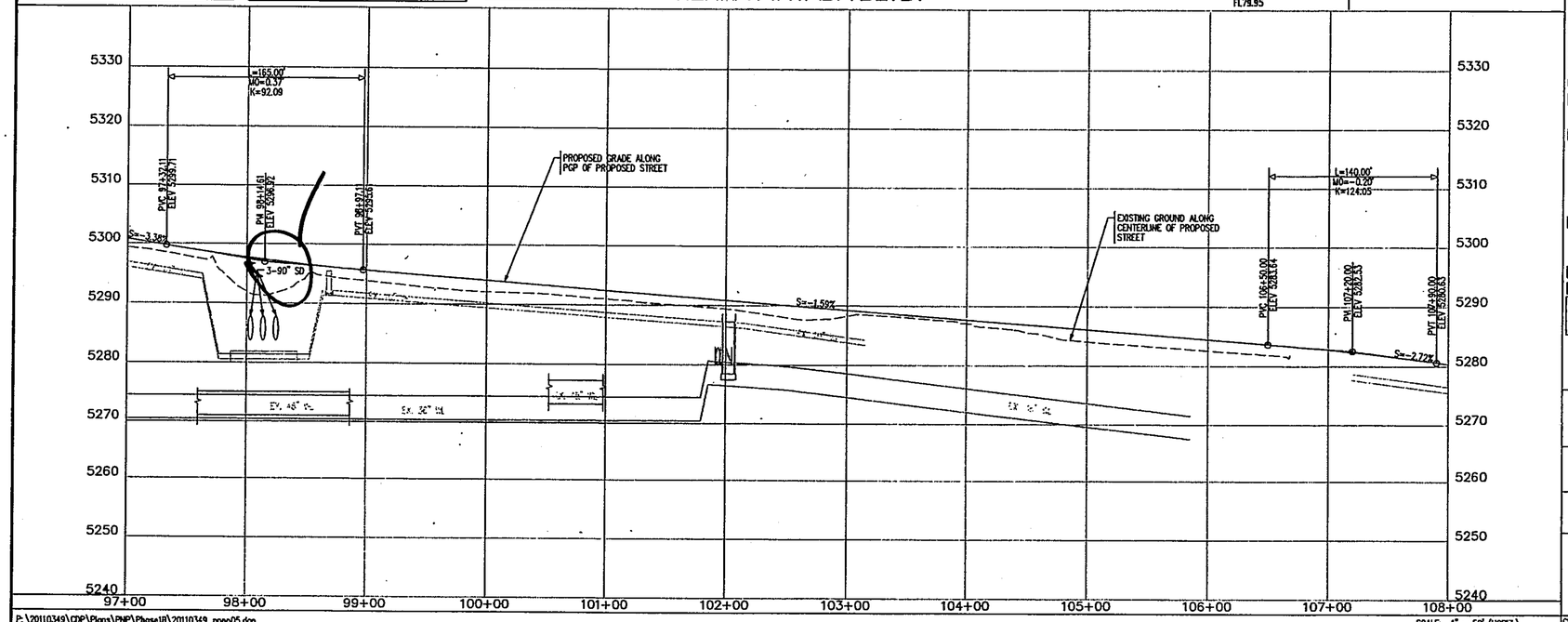
MEDIAN Point Table			
○	STATION	OFFSET	ELEVATION
16	101+16.16	8.75' RT	5291.46
17	101+39.87	3.69' RT	5291.19
18	101+63.98	2.00' RT	5290.84
19	103+14.36	2.00' RT	5288.46
20	103+14.36	14.00' LT	5288.21
21	104+06.20	0.37' LT	5286.50
22	104+21.95	10.25' RT	5286.35

MEDIAN Point Table			
○	STATION	OFFSET	ELEVATION
23	104+40.72	14.00' RT	5286.20
24	104+54.02	14.00' RT	5285.99
25	104+72.76	12.69' RT	5285.72
26	104+91.08	8.81' RT	5285.50
27	105+15.04	3.71' RT	5285.23
28	105+39.40	2.00' RT	5284.88
29	106+90.05	2.00' RT	5282.42

MEDIAN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C13	41.76'	150.00'	15°57'01"	21.01'
C14	46.15'	150.00'	17°37'36"	23.26'
C15	37.52'	150.00'	14°19'51"	18.86'
C16	48.28'	150.00'	18°26'28"	24.35'
C17	38.11'	50.00'	43°40'09"	20.03'
C18	37.13'	150.00'	14°11'02"	18.66'
C19	48.78'	150.00'	18°37'52"	24.61'

CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C3	451.41'	1188.00'	21°46'16"	228.46'
C4	1005.87'	1100.00'	52°23'35"	541.18'

CL Tangent Table		
ID	BEARING	LENGTH
T3	N15°07'59"E	783.08'



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4/20/2012

NOTES

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KEYED NOTES

1. STD. CURB & GUTTER PER COA STD. DWG. 2415A
2. MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B
3. BUILD 10' ASPHALT TRAIL PER DETAIL SEE SHEET 5
4. BUILD WHEEL CHAIR RAMP PER DETAIL SHEET 24
5. INSTALL 6' CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420
6. 6" MODIFIED EXTRUDED ASPHALT CURB PER COA STD. DWG. 2415B WITH 4" WHITE STRIPE ALONG STREET EDGE OF CURB
7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 6' MIN. WIDTH F-F AS SHOWN ON PLANS (BAJA RED) MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT. PER COA STD. DWG. 2408 & 2502
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9. BUILD 6' SIDEWALK PER COA STD DWG 2430
10. PAVEMENT DESIGN SECTION SEE SHEET 5

FOR INFORMATION ON FLOWLINE AND MEDIAN FLOWLINE CALCULATIONS FROM PROFILE GRADE POINT (PGP) SEE CROSS-SECTION DETAIL ON SHEET 5

AS-BUILT INFORMATION
CONTRACTOR | DATE
WORK STAKED BY | DATE
WORK INSPECTED BY | DATE
ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE
MICRO-FILM INFORMATION
RECORDED BY | DATE
NO. | DATE

BENCH MARKS
USC&GS BRASS DISC STAMPED "REWARD 1969"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1487364.063 E=1491190.819
GROUND TO GRID = 0.999675005
DELTA ALPHA = -00°17'12.26"
NAVD 1988 ELEVATION = 5319.638

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
16035 PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YPM DATE 04/2012
DRAWN BY ARR DATE 04/2012
CHECKED BY YPM DATE 04/2012

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4336

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TIERRA PINTADA PHASE 1
PAVING PLAN & PROFILE
TIERRA PINTADA BLVD.

DESIGN REVIEW COMMITTEE: APPROVED JUL 31 2012 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED AUG 2 0 2012 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

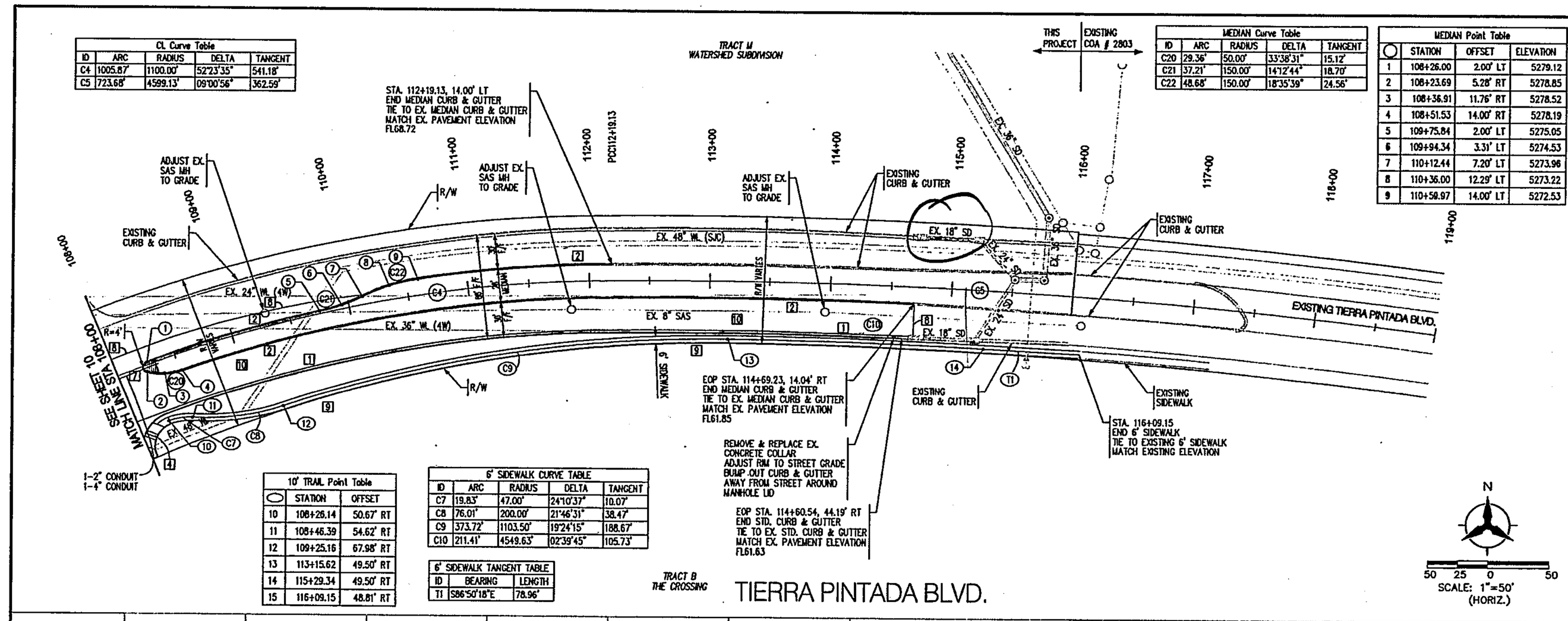
CITY PROJECT NO. 650272 | ZONE MAP NO. J-7,J-8,K-7,K-8 | SHEET 10 OF 25

B-3

CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C4	1005.87'	1100.00'	52°23'35"	541.18'
C5	723.68'	4599.13'	09°00'56"	362.59'

MEDIAN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C20	29.36'	50.00'	33°38'31"	15.12'
C21	37.21'	150.00'	14°12'44"	18.70'
C22	48.68'	150.00'	18°35'39"	24.56'

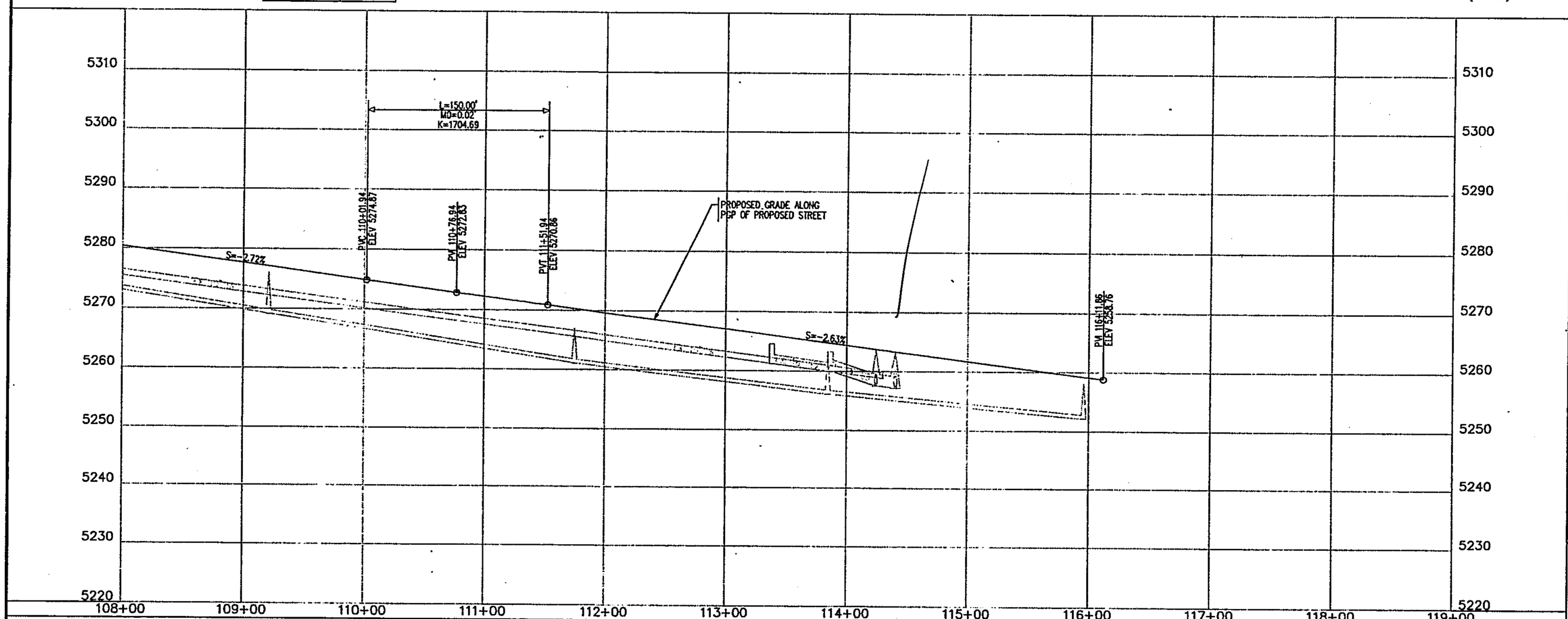
MEDIAN Point Table			
	STATION	OFFSET	ELEVATION
1	108+26.00	2.00' LT	5279.12
2	108+23.69	5.28' RT	5278.85
3	108+36.91	11.76' RT	5278.52
4	108+51.53	14.00' RT	5278.19
5	109+75.84	2.00' LT	5275.05
6	109+94.34	3.31' LT	5274.53
7	110+12.44	7.20' LT	5273.96
8	110+36.00	12.29' LT	5273.22
9	110+59.97	14.00' LT	5272.53



10' TRAIL Point Table		
	STATION	OFFSET
10	108+26.14	50.67' RT
11	108+46.39	54.62' RT
12	109+25.16	67.98' RT
13	113+15.62	49.50' RT
14	115+29.34	49.50' RT
15	116+09.15	48.81' RT

6' SIDEWALK CURVE TABLE				
ID	ARC	RADIUS	DELTA	TANGENT
C7	19.83'	47.00'	24°10'37"	10.07'
C8	76.01'	200.00'	21°46'31"	38.47'
C9	373.72'	1103.50'	19°24'15"	188.67'
C10	211.41'	4549.63'	02°39'45"	105.73'

6' SIDEWALK TANGENT TABLE		
ID	BEARING	LENGTH
T1	S86°50'18"E	78.96'



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4/20/2012

BHI JOB NO. 20110349

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

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KEYED NOTES

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2. MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B
3. BUILD 10' ASPHALT TRAIL PER DETAIL SEE SHEET 5
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5. INSTALL 6' CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420
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7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 6' MIN. WIDTH F-F AS SHOWN ON PLANS (BAJA RED) MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT. PER COA STD. DWG. 2408 & 2502
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AS-BUILT INFORMATION
CONTRACTOR / DATE
WORK STAKED BY / DATE
ACCEPTANCE BY / DATE
FIELD INSPECTION BY / DATE
DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO. / DATE

BENCH MARKS
USC&GS BRASS DISC STAMPED "REWARD 1963"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1487364.063 E=1491190.819
GROUND TO GRID = 0.999675005
DELTA ALPHA = -00°17'12.26"
NAVD 1988 ELEVATION = 5319.688

SURVEY INFORMATION
FIELD NOTES
NO. / BY / DATE

ENGINEER'S SEAL
JOHN P. DOMINGUEZ
NEW MEXICO
15035
LICENSED PROFESSIONAL ENGINEER
4-20-12

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YPH DATE 04/2012
DRAWN BY ARR DATE 04/2012
CHECKED BY YPH DATE 04/2012

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

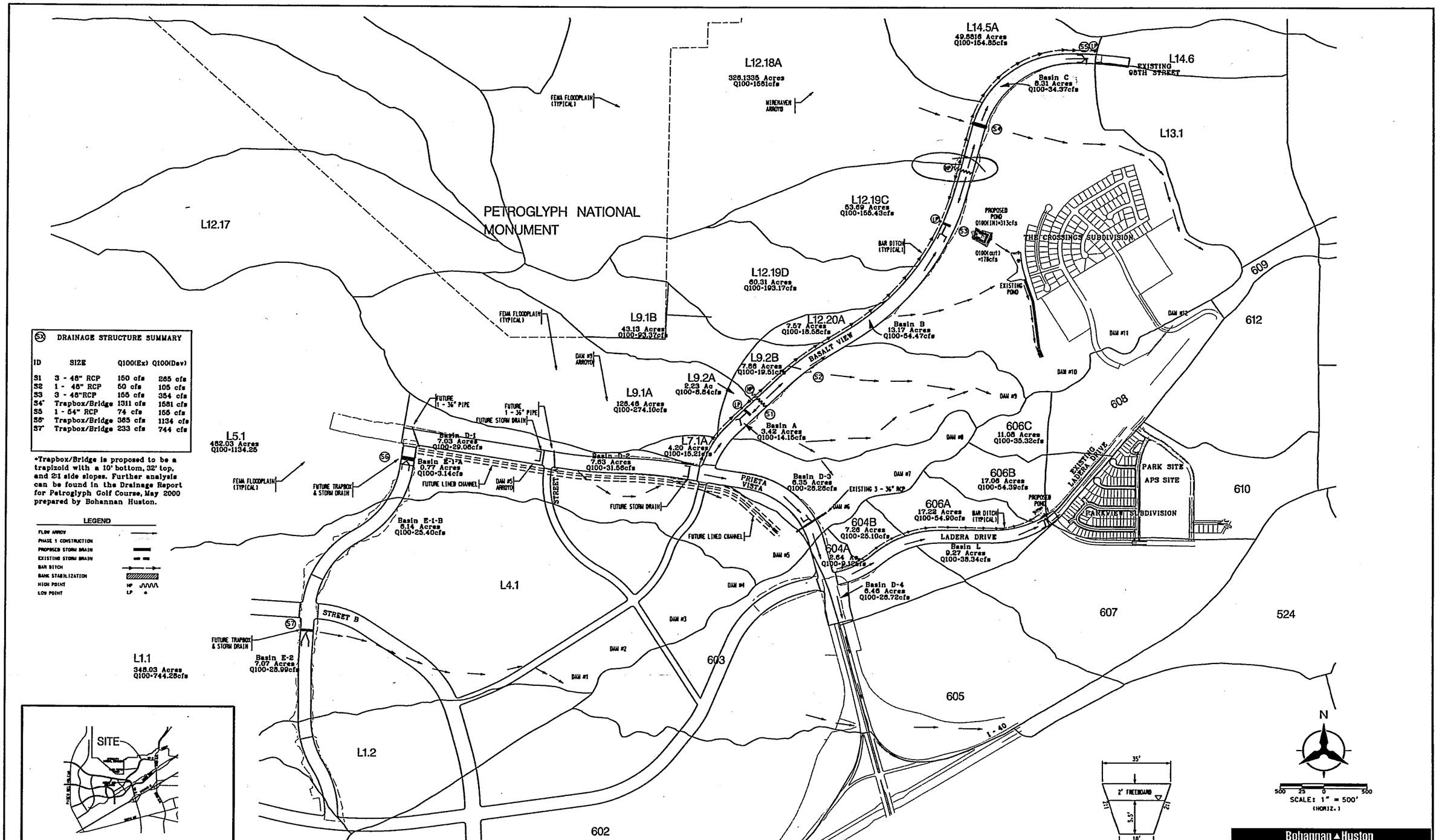
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TIERRA PINTADA PHASE 1
PAVING PLAN & PROFILE
TIERRA PINTADA BLVD.

DESIGN REVIEW COMMITTEE: PROVED JUL 31 2012 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: PROVED AUG 20 2012 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 650272 | ZONE MAP NO. J-7,J-8,K-7,K-8 | SHEET 11 OF 25

B-4



PROPOSED BASIN MAP TO SUPPORT PHASE 1 CONSTRUCTION

WESTLAND

BASIN I.D.	AREA (AC)	% LAND TREATMENT A	B	C	D	RUNOFF (AC-FT) 10 YR	100 YR	DISCHARGE (CFS) 10 YR	100YR
HYRDOLOGICAL VOLUMETRIC & DISCHARGE DATA (EXISTING CALCULATED)									
Basin A	3.42	97.0%	0.0%	3.0%	0.0%	0.03	0.13	0.98	4.50
Basin B	13.17	97.0%	0.0%	3.0%	0.0%	0.10	0.50	3.79	17.34
Basin C	8.31	97.0%	0.0%	3.0%	0.0%	0.06	0.32	2.39	10.94
Basin D-1	7.03	97.0%	0.0%	3.0%	0.0%	0.05	0.27	2.02	9.26
Basin D-2	7.63	97.0%	0.0%	3.0%	0.0%	0.06	0.29	2.20	10.05
Basin D-3	6.35	97.0%	0.0%	3.0%	0.0%	0.05	0.24	1.83	8.36
Basin D-4	6.46	97.0%	0.0%	3.0%	0.0%	0.05	0.25	1.86	8.51
Basin E-1-A	0.77	97.0%	0.0%	3.0%	0.0%	0.01	0.03	0.22	1.01
Basin E-1-B	6.14	97.0%	0.0%	3.0%	0.0%	0.05	0.23	1.77	8.09
Basin E-2	7.01	97.0%	0.0%	3.0%	0.0%	0.05	0.27	2.02	9.23
Basin L	9.27	97.0%	0.0%	3.0%	0.0%	0.07	0.35	2.67	12.21
HYRDOLOGICAL VOLUMETRIC & DISCHARGE DATA (DEVELOPED)									
Basin A	3.42	0.0%	10.0%	0.0%	90.0%	0.32	0.52	9.15	14.15
Basin B	13.17	0.0%	10.0%	0.0%	90.0%	1.25	2.02	35.23	54.47
Basin C	8.31	0.0%	10.0%	0.0%	90.0%	0.79	1.27	22.23	34.37
Basin D-1	7.03	0.0%	10.0%	0.0%	90.0%	0.67	1.08	18.81	29.08
Basin D-2	7.63	0.0%	10.0%	0.0%	90.0%	0.72	1.17	20.41	31.56
Basin D-3	6.35	0.0%	10.0%	0.0%	90.0%	0.60	0.97	16.99	26.26
Basin D-4	6.46	0.0%	10.0%	0.0%	90.0%	0.61	0.99	17.28	26.72
Basin E-1-A	0.77	0.0%	10.0%	0.0%	90.0%	0.07	0.12	2.06	3.18
Basin E-1-B	6.14	0.0%	10.0%	0.0%	90.0%	0.58	0.94	16.43	25.40
Basin E-2	7.01	0.0%	10.0%	0.0%	90.0%	0.66	1.07	18.75	28.99
Basin L	9.27	0.0%	10.0%	0.0%	90.0%	0.88	1.42	24.80	38.34
TOTAL	75.56								312.52

$2 = 17.19.

FROM DAR BASALT VIEW ST, LADERA BLVD & PRIETA VISTA BLVD, OCTOBER 12, 2000

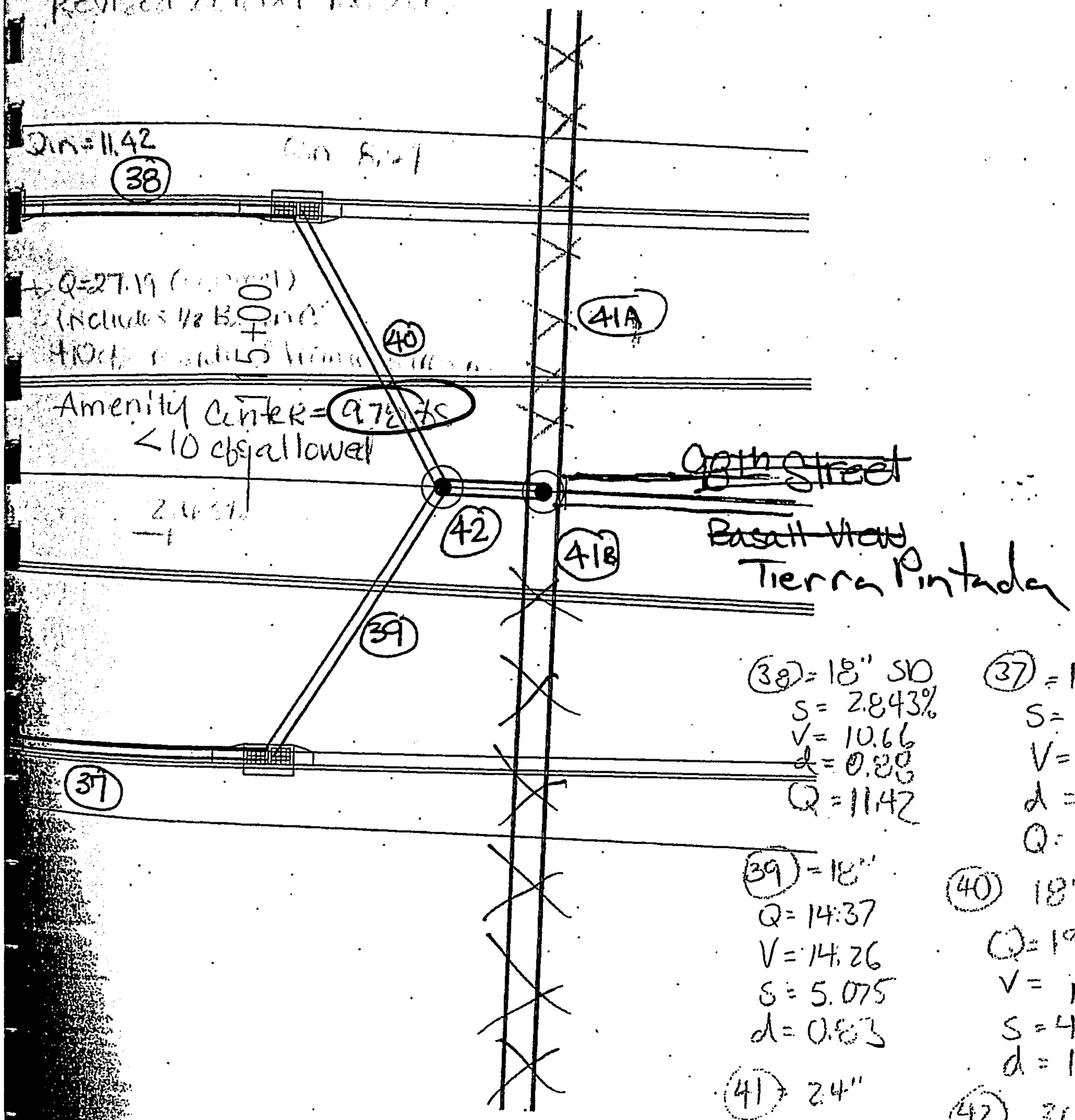
Bohannan Huston

B-6

p:\00184\cdp\reports\00311basins.xls\6/12/00

Design Analysis Report
Basalt View Subdivision
& Prichard Village
June 15, 2004
Revised October 12, 2004

Drainage Report for
Watershed Subdivision
April 9, 2004
Excerpt (THIS SHEET.



Tierra Pintada
Basalt View

original 1/2 street
[illegible] Basalt View
(2000 LF) + Tierra Pintada
[illegible] be [illegible]

***** *****

STREET @ S=2.63%
MANNING'S N= .017 SLOPE= .0263

POINT	DIST	ELEV	POINT	DIST	ELEV	POINT	DIST	ELEV
1	0.00	0.67	4	2.63	0.13	7	30.80	1.17
2	0.46	0.67	5	29.80	0.67	8	31.30	1.17
3	0.63	0.00	6	30.63	0.67	9	0.00	0.00

WSEL (FT)	DEPTH INC (FT)	FLOW AREA SQ.FT.	FLOW RATE (CFS)	WETTED PER (FT)	FLOW VEL (FPS)	TOPWID (FT)	VEL HEAD (FT)	ENERGY HEAD (FT)
0.05	0.05	0.02	0.0	0.85	1.17	0.81	0.02	0.07
0.10	0.10	0.08	0.2	1.71	1.86	1.63	0.05	0.15
0.15	0.15	0.19	0.4	3.41	2.09	3.28	0.07	0.22
0.20	0.20	0.42	1.0	5.95	2.42	5.79	0.09	0.29
0.25	0.25	0.77	2.2	8.49	2.87	8.30	0.13	0.38
0.30	0.30	1.25	4.1	11.04	3.32	10.80	0.17	0.47
0.35	0.35	1.85	7.0	13.58	3.76	13.31	0.22	0.57
0.40	0.40	2.58	10.8	16.13	4.18	15.81	0.27	0.67
0.45	0.45	3.43	15.7	18.67	4.58	18.32	0.33	0.78
0.50	0.50	4.41	22.0	21.22	4.98	20.82	0.38	0.88
0.55	0.55	5.52	29.5	23.76	5.35	23.33	0.45	1.00
0.60	0.60	6.74	38.6	26.31	5.72	25.83	0.51	1.11
0.65	0.65	8.10	49.2	28.85	6.08	28.34	0.57	1.22
0.70	0.70	9.59	62.0	31.19	6.46	30.64	0.65	1.35
0.75	0.75	11.13	79.3	31.25	7.12	30.66	0.79	1.54
0.80	0.80	12.66	98.2	31.30	7.75	30.67	0.93	1.73
0.85	0.85	14.19	118.6	31.35	8.36	30.69	1.08	1.93
0.90	0.90	15.73	140.6	31.40	8.94	30.71	1.24	2.14
0.95	0.95	17.27	164.1	31.46	9.50	30.73	1.40	2.35
1.00	1.00	18.80	188.9	31.51	10.05	30.74	1.57	2.57
1.05	1.05	20.34	215.1	31.56	10.58	30.76	1.74	2.79
1.10	1.10	21.88	242.6	31.61	11.09	30.78	1.91	3.01
1.15	1.15	23.42	271.5	31.67	11.59	30.79	2:09	3.24
1.17	1.17	24.03	283.3	31.69	11.79	31.30	2.16	3.33

[illegible] 17.78 1.47
[illegible] 1.55
3.4

Left
dmax=.45 Qmax = 15.7

Right
dmax=.45 Qmax=15.7

Q10total = 22.23

Q10 = 11.11 cfs

Q10 = 11.11 cfs

17.19 = Basin C $\frac{34.37}{2}$ = 17.19

Right
Q100T = 34.37 cfs
Q100 = 17.19 cfs
d=.46

Left
Q100 = 17.19 + 10 residual − 10 cfs residual from upstream basins
= 27.19
d=.53

2nd set of inlets
Q100 = 3.66
d = .37

Q100 = 15.71
d = .45

DEVELOPMENT REVIEW BOARD
HYDROLOGY SECTION

HEARING DATE: May 6, 2015
AGENDA ITEM NO: 1

DRB Project Number: 1010442
PROJECT: Del Webb @ Mirehaven Anemity Center

SUBJECT & ENGINEERING COMMENTS:

Sketch Plat, Minor Preliminary/ Final Plat, Preliminary Plat(I.L.), Final Plat,
Sidewalk Deferral, Sidewalk Waiver/Variance,
Site Plan for Building Permit, Site Plan for Subdivision,
SIA Extension – 2 Year, SIA Extension – Sidewalk,
Vacation of Public Easements, Vacation of Public Right-of-Way

- Hydrology left engineer message with preliminary comments
- Need to account for 1st Flush for Proposed Basin A-1
- Show capacity of inlet on Mirehaven Parkway and Tierra Pintada
- Landscape plan should show Pond 2
- Site plan should show both ponds.

RESOLUTION/COMMENTS:

Water:

Transportation:

Planning:

Parks & Rec

APPROVED __; DELEGATED__ TO: (TRANS) (HYD) (WUA) (PRKS) (PLNG)
SIGNED-OFF : ___ (I.L.) (SPSD) (SPBP) (FINAL PLAT)
DEFERRED __DATE_____ ; DENIED __;
SIGNED: Rita Harmon, P.E.
Hydrology Section
505-924-3695

Verbal No ~~Permit~~ new Site #

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Del Webb @ Mirehaven ~~Phase 1~~ Amenity Center Building Permit #: City Drainage #: H09D017C1

DRB#: 1006864 EPC#: Work Order#:

Legal Description: N-2-A OF THE WATERSHED SUBDIVISION

City Address:

Engineering Firm: BOHANNAN HUSTON INC Contact: Yolanda Moyer

Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: E-mail: ypadilla@bhinc.com

Owner: PULTE HOMES OF NM Contact: Kevin Patton, P.E.

Address: 7601 JEFFERSON ST NE, SUITE 320, ALBUQUERQUE, NM

Phone#: 505-341-8591 Fax#: E-mail: kevin.patton@pultegroup.com

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
- X DRAINAGE PLAN 1st SUBMITTAL
- ___ DRAINAGE PLAN RESUBMITTAL
- ___ CONCEPTUAL G & D PLAN
- X 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
- X S. DEV. FOR BLDG. PERMIT APPROVAL
- ___ SECTOR PLAN APPROVAL SPBP
- ___ FINAL PLAT APPROVAL
- ___ CERTIFICATE OF OCCUPANCY (PERM)
- ___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ___ FOUNDATION PERMIT APPROVAL
- x BUILDING PERMIT APPROVAL
- X GRADING PERMIT APPROVAL
- X PAVING PERMIT APPROVAL
- ___ WORK ORDER APPROVAL
- ___ GRADING CERTIFICATION
- ___ SO-19 APPROVAL
- ___ ESC PERMIT APPROVAL
- ___ ESC CERT. ACCEPTANCE
- ___ OTHER (SPECIFY) ROUGH GRADING

RECEIVED APR 21 2015 LAND DEVELOPMENT SECTION

$50.00 rs verified

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

DATE SUBMITTED: 4-22-15 By: Yolanda Padilla Moyer

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

Bohannan Huston

Engineering
Spatial Data
Advanced Technologies

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

To: Rita Harmon, P.E.
City of Albuquerque
Planning Department
One Civic Plaza
Rm 301
Albuquerque, NM 87102

Phone: 505-924-3986
Job No.: 20130375

Requested by: Yolanda Padilla Moyer

Date: April 22, 2015

Time Due:
- ☒ This A.M.
- ☐ This P.M.
- ☐ Rush _____
- ☐ By Tomorrow

Job Name: DelWebb Amenity

DELIVERY VIA

- ☒ Courier
- ☐ Federal Express
- ☐ Mail
- ☐ UPS
- ☐ Other

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Cover Letter
2	1	Drainage Info Sheet
3	1	Grading and Drainage Plan
4	1	Digital Copy Submittal E-mail

COMMENTS / INSTRUCTIONS

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LAND DEVELOPMENT SECTION

REC'D BY:_____ **DATE:**_____ **TIME:**_____

Bohannan ▲ Huston

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

April 20, 2015

Ms. Rita Harmon
Hydrology Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Partial Grading and Drainage Certification, Del Webb @ Mirehaven Phase 1
DRB Case No. 1006864

Dear Rita:

We are submitting a partial grading and drainage certification for Del Webb @ Mirehaven Phase 1. The partial certification includes Lots 34-40 48-56 72-76 84-89 98 108-109 117 and 124-126 Enclosed for your review is the approved grading and drainage plan dated 3/11/14 and 3/20/14. These lots have been graded; retaining walls, curb and gutter, pavement and downstream infrastructure have been constructed. The remaining lots have been graded, but the retaining walls have not been completed. The remaining lots will be certified once construction of all improvements has been completed

After reviewing these as-built elevations and visiting the site on 4/20/15 it is my belief that the above lots have been graded in substantial compliance with the approved grading and drainage plan and that the interim drainage improvements allow runoff to be managed in the interim condition.

Your review and approval is requested for Building Permit Approval for the above listed buildings. I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

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APR 21 2015
LAND DEVELOPMENT SECTION

Enclosure

cc: Peter Steen, Pulte Homes
Kevin Patton, Pulte Homes

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲

P:\20130375\Correspondence\Submittals\G&D Cert\Del Webb Ph 1\Partial Lots 34-40 48-56 72-76 84-89 98 108-109 117 124-126\20130375 Partial Drainage Cert (Partial Lots 34-40 48-56 72-76 84-89 98 108-109 117 124-126) Cherne.docx

Bohannan ▲ Huston

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

April 22, 2015

Ms. Rita Harmon
Hydrology Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Amenity Center Conceptual Grading and Drainage Plan Submittal
DRB Case No. 1006864

Dear Rita:

We are submitting a Conceptual Grading and Drainage Plan for the Amenity Center for Del Webb at Mirehaven for Site Plan for Building Permit approval. The Amenity Center is located on Del Webb Blvd between Willow Canyon Trail and Mirehaven Blvd. The site is approximately 6.6 acres.

Your review and approval is requested for Site Plan ~~for~~ Building Permit Approval for the above listed buildings. I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

Enclosure

cc: Peter Steen, Pulte Homes
Kevin Patton, Pulte Homes

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APR 21 2015
LAND DEVELOPMENT SECTION

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲

Yolanda Padilla Moyer

From: Yolanda Padilla Moyer
Sent: Tuesday, April 21, 2015 4:23 PM
To: 'Ortiz, Monica'
Cc: Harmon Rita T. (rharmon@cabq.gov)
Subject: Amenity Center Grading and DRainage Plan
Attachments: digital submittal.pdf

Hi Monica

Please find enclosed the digital submittal for the above mentioned project. Please let me know if you have any questions.

Thanks
Yolanda

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APR 21 2015
LAND DEVELOPMENT SECTION

Bohannan Huston

Engineering
Spatial Data
Advanced Technologies

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

To: Curtis A. Cherne, P.E.
City of Albuquerque
Planning Department
One Civic Plaza
Rm 301
Albuquerque, NM 87102

Phone: 505-924-3986
Job No.: 20130375

Requested by: Yolanda Padilla Moyer

Date: April 20, 2015

Time Due:
- ☒ This A.M.
- ☐ This P.M.
- ☐ Rush _____
- ☐ By Tomorrow

Job Name: DelWebb Phase 1

DELIVERY VIA

- ☒ Courier
- ☐ Federal Express
- ☐ Mail
- ☐ UPS
- ☐ Other

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Cover Letter
2	1	Drainage Info Sheet
3	1	Grading Plan Cert
4	1	Digital Copy Submittal E-mail

COMMENTS / INSTRUCTIONS

RECEIVED
APR 21 2015
DESIGN REVIEW

REC'D BY:_____ DATE:_____ TIME:_____

CITY OF ALBUQUERQUE

June 29, 2016

Yolanda Moyer
Bohannan Huston Inc.
7500 Jefferson St. NE
Albuquerque, NM 87109

Re: Del Webb Amenity Center
9100 Del Webb Lane, NW
Request for Certificate of Occupancy- Transportation Development
DRB Approval dated 6-26-15 (H09-D017C1)
Certification dated 6-21-16

Dear Ms. Moyer,

Based upon the information provided in your submittal received 6-22-16, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy. 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 Gary Sandoval at (505) 924-3675 or me at (505)924-3991.

Sincerely,

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

\gs via: email
C: CO Clerk, 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 09/2015)

Project Title: Del Webb Amenity Center Building Permit #: _____ City Drainage #: H-9 D017C1

DRB#: 10006864 EPC#: _____ Work Order#: _____

Legal Description: N-2-A-F-1 OF DEL WEBB @ MIREHAVEN PHASE I

City Address: 9100 Del Webb Lane NW

Engineering Firm: BOHANNAN HUSTON INC Contact: Yolanda Moyer

Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: _____ E-mail: ypadilla@bhinc.com

Owner: PULTE Contact: KEVIN PATTON

Address: 7601 JEFFERSON STREET NE SUITE 310 ALBUQ. NM 87109

Phone#: 505-341-8591 Fax#: _____ E-mail: kevin.patton@pultegroup.com

Architect: _____ Contact: _____

Address: _____

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

Other Contact: _____ Contact: _____

Address: _____

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

Check all that Apply:

DEPARTMENT:

____ HYDROLOGY/ DRAINAGE
x TRAFFIC/ TRANSPORTATION
____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

x ENGINEER/ ARCHITECT CERTIFICATION

____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE MASTER PLAN
____ DRAINAGE REPORT
____ CLOMR/LOMR

X TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ EROSION & SEDIMENT CONTROL PLAN (ESC)

____ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY

____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR

____ PRE-DESIGN MEETING
____ OTHER (SPECIFY) _____

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JUN 22 2016
LAND DEVELOPMENT SECTION

IS THIS A RESUBMITTAL?: ____ Yes ____ No

DATE SUBMITTED: 6-21-16 By: YOLANDA PADILLA MOYER, P.E.

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___

Bohannan Huston

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

June 21, 2016

Racquel Michel, P.E.
Transportation Development Section
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: Traffic Circulation Layout Engineer's Certification
Del Webb Amenity Center (H-9)

Dear Racquel:

Enclosed for your review is the approved Site Plan dated 6/26/15. I visited the site on 06/21/16 and it is my belief that the traffic and pedestrian improvements have been constructed in substantial compliance with the approved site plan.

Your review and approval is requested for Final Certificate of Occupancy for the project. I appreciate your time and consideration. If you have questions or require additional information, please contact me at 823-1000.

Sincerely,

Yolanda Padilla Moyer

Yolanda Padilla Moyer, P.E.
Senior Project Manager
Community Development & Planning

ypm/
Enclosure

cc: Jim Werkmeister, Klinger (w/encl)
Kevin Patton, Pulte (w/encl)
Peter Steen, Pulte (w/encl)

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JUN 22 2016
LAND DEVELOPMENT SECTION

Engineering ▲
Spatial Data ▲
Advanced Technologies ▲

P:\20130375\Correspondence\Submittals\Amenity Center\CO\TCL\Final\Trans Cert Letter_06-21-164.docx