CITY OF ALBUQUERQUE

May 3, 2011

Michael Balaskovits, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

Re: CFV Solar Test Lab @ Mesa Del Sol
Grading and Drainage Plan
Engineer's Stamp dated 05-2-11 (R16/DA2000)

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received 5-2-11, the above referenced plan is approved for Paving Permit.

Upon completion of the project, please provide an Engineer Certification for our files.

If you have any questions, you can contact me at 924-3421 or Rudy E. Rael at 924-3977.

Sincerely,

Paul Olson, P.E.,CFM.
Senior Engineer, Planning Dept.
Development and Building Services

PLO/RER
C: File

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Albuquerque - Making History 1706-2006

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/2005)

PROJECT TITLE: CFV Solar Test Lab @ Mesa del Sol (Previously Advent Solar Bldg) R16 - DA2000
ZONE MAP/DRG. FILE # R16/D1
DRB#: N/A EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract 4-C Mesa del Sol Tracts 4-A, 4-B & 4-C
CITY ADDRESS: 5600 University Blvd SE Albuquerque, NM 87106

ENGINEERING FIRM: Bohannan Huston Inc. CONTACT: Mike Balaskovits
ADDRESS: 7500 Jefferson NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: Mesa del Sol, LLC CONTACT: Manny Barrera
ADDRESS: 5700 University West SE Suite 310 PHONE: (505) 244-8472
CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: Dekker/Perish/Sabatini CONTACT: Scott Leonard
ADDRESS: 7601 Jefferson NE Suite 100 PHONE: (505) 761-9700
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

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

TYPE OF SUBMITTAL:
_____ DRAINAGE REPORT
_____ DRAINAGE PLAN 1st SUBMITTAL
__X__ DRAINAGE PLAN RESUBMITTAL
_____ CONCEPTUAL G & D PLAN
__X__ GRADING PLAN RESUBMITTAL
_____ EROSION CONTROL PLAN
_____ ENGINEER'S CERT (HYDROLOGY)
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT
_____ ENGINEER CERT (TCL)
_____ ENGINEER CERT (DRB SITE PLAN)
_____ OTHER (REVISED G&D PLAN)

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
_____ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY (PERM)
_____ CERTIFICATE OF OCCUPANCY (TEMP)
_____ GRADING PERMIT APPROVAL (ROUGH)
__X__ PAVING PERMIT APPROVAL
_____ WORK ORDER APPROVAL
_____ OTHER (SPECIFY)

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

SUBMITTED BY: Mike Balaskovits DATE: 05-02-11

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.

Bohannan ▲ Huston INC.

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: Rudy Rael
City of Albuquerque Hydrology
600 Second St, 2nd floor

Requested by: Mike Balaskovits/bw

Date: 05/02/2011

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

Phone: 924-3983

Job No.: 20110345

Job Name: Mesa del Sol-CFV modifications

DELIVERY VIA

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

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Grading and Drainage Plan/Drainage Management Plan (Engineer Stamp dated 5-2-11)
2	1	Drainage info sheet

COMMENTS / INSTRUCTIONS

Rudy,
Please let me know if you have any questions or comments.

Thanks,
Mike

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

ENGINEERING ▲
SPATIAL DATA ▲
ADVANCED TECHNOLOGIES ▲

CITY OF ALBUQUERQUE

April 15, 2011

Michael Balaskovits, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

Re: CFV Solar Test Lab @ Mesa Del Sol
Grading and Drainage Plan
Engineer's Stamp dated 03-10-11 (R16/DA2000)

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received 3-30-11, the above referenced plan can not be accepted for Grading Permit and Paving Permit until the following comments are addressed.

- A detail is needed for the retaining wall and where does it end?
- Is curb and gutter being installed?
- Is the concrete south of the building existing or new?
- What does the existing swale look like and how are you going to tie into it with the new rip-rap?

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

Sincerely,

Paul Olson, P.E.,CFM.
Senior Engineer, Planning Dept.
Development and Building Services

C: PLO/RER
File

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/2005)

PROJECT TITLE: CFV Solar Test Lab @ Mesa del Sol (Previously Advent Solar Bldg)
ZONE MAP/DRG. FILE # ~~R16/D1~~ R16/DA2000
DRB#: N/A EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract 4-C Mesa del Sol Tracts 4-A, 4-B & 4-C
CITY ADDRESS: 5600 University Blvd SE Albuquerque, NM 87106

ENGINEERING FIRM: Bohannan Huston Inc. CONTACT: Mike Balaskovits
ADDRESS: 7500 Jefferson NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: Mesa del Sol, LLC CONTACT: Manny Barrera
ADDRESS: 5700 University West SE Suite 310 PHONE: (505) 244-8472
CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: Dekker/Perish/Sabatini CONTACT: Scott Leonard
ADDRESS: 7601 Jefferson NE Suite 100 PHONE: (505) 761-9700
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

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

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

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
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TEMP)
- MP X GRADING PERMIT APPROVAL (ROUGH)
- X PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

MAR 30 2011
HYDROLOGY SECTION

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

SUBMITTED BY: Mike Balaskovits DATE: ~~04~~ 03-30-11

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

April 13, 2010

Michael Balaskovits, P.E.
Bohannan Huston, Inc.
7500 Jefferson St NE
Albuquerque, NM 87109

Re: Mesa del Sol Fire House and Advent Pond, Phase 1 Drainage Management Plan, Phase 1 Grading and Drainage Plan and Advent Pond Grading and Drainage Plan

Engineer's Stamp dated 4-13-10 (R16/DA2004)

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received 4-13-10, the above referenced plans are approved for Building Permit for the Fire House and for Grading Permit for the Advent Pond. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

A Certification is required for the Advent Pond and a separate Certification if required for the Fire House for Certificate of Occupancy.

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

Sincerely,

Curtis A. Cherne

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file
Advent Solar file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 12/2005)

PROJECT TITLE: NOVA Corporation Data Center & Office Buildings ZONE MAP/DRG. FILE #: R-16 /DA1003
DRB #. _____ EPC#. _____ WORK ORDER #. _____

LEGAL DESCRIPTION: Tract I-1 Mesa Del Sol Innovation Park II
CITY ADDRESS: 5550 Turing Drive SE

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Brian Warren, PE
ADDRESS: 7500 Jefferson Street NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: NOVA Corporation CONTACT: _____
ADDRESS: 609 Broadway Blvd PHONE: _____
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

ARCHITECT: Claudio Vigil Architects CONTACT: Fritz Wiebelhaus
ADDRESS: 1801 Rio Grande Blvd PHONE: (505) 842-1113
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

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

CHECK TYPE OF SUBMITTAL:

- ___ DRAINAGE REPORT
- X DRAINAGE PLAN 1ST SUBMITTAL
- ___ DRAINAGE PLAN RESUBMITTAL
- X 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
- ___ 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
- X BUILDING PERMIT APPROVAL
- ___ CERTIFICATE OF OCCUPANCY (PERM.)
- ___ CERTIFICATE OF OCCUPANCY (TEMP.)
- X GRADING PERMIT APPROVAL
- ___ PAVING PERMIT APPROVAL
- ___ WORK ORDER APPROVAL
- ___ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ___ YES
- X NO
- ___ COPY PROVIDED

Owes 50 $ 50 $ payable

RECEIVED
OCT 26 2012
LAND DEVELOPMENT SECTION

DATE SUBMITTED: 09-28-2012 BY: Brian Warren, PE

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.

Bohannan ▲ Huston INC.

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

Leg

To: Shahab Biazar, PE
COA Hydrolodgy Dept.
Plaza Del Sol

Requested by: Brian Warren

Date: 9/28/12

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

Phone: 924-3695

Job No.: 20130096

Job Name: NOVA Corp DC

DELIVERY VIA

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

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Drainage Info Sheet
2	1	Grading Plan, stamp date 9/27/2012
3	1	Drainage Management Plan, stamp date 9/28/12

COMMENTS / INSTRUCTIONS

Shahab,
Please find attached our 100% Grading Plan Construction Documents & Drainage Management Plan for the NOVA Corp Project at Mesa del Sol. With this submittal we are seeking Building Permit Approval. This project is part of an approved Master Grading and Drainage Plan, hydrology number R16/DA1 Please feel free to call me with any questions or comments.
Thanks!
Brian Warren
823-1000

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

ENGINEERING ▲
SPATIAL DATA ▲
ADVANCED TECHNOLOGIES ▲

Leave in
box.
waiting on
$50 check
cc
9-20-17

Bohannan ▲ Huston INC.

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: Shahab Biazar, PE
COA Hydrolodgy Dept.
Plaza Del Sol

Requested by: Brian Warren

Date: 9/28/12

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

Phone: 924-3695

Job No.: 20130096

Job Name: NOVA Corp DC

DELIVERY VIA

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

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Drainage Info Sheet
2	1	Grading Plan, stamp date 9/27/2012
3	1	Drainage Management Plan, stamp date 9/28/12

COMMENTS / INSTRUCTIONS

Shahab,
Please find attached our 100% Grading Plan Construction Documents & Drainage Management Plan for the NOVA Corp Project at Mesa del Sol. With this submittal we are seeking Building Permit Approval. This project is part of an approved Master Grading and Drainage Plan, hydrology number R16/DA1 Please feel free to call me with any questions or comments.
Thanks!
Brian Warren
823-1000

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

ENGINEERING ▲
SPATIAL DATA ▲
ADVANCED TECHNOLOGIES ▲

CITY OF ALBUQUERQUE

November 13, 2012

Brian Warren, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

Re: Tract I-1 Mesa Del Sol, Innovation Park II
Grading and Drainage Plan
Engineer's Stamp dated 9-27-12 (R16/DA1003)

Dear Mr. Warren:

Based upon the information provided in your submittal received 10-26-12, the above referenced report can not be approved for building permit based on the following comments:

- Are you planning to relocate the existing inlet at the entrance on Turing Dr. SE? The modification to this inlet will have to done under the City Workorder and approval through DRC.
- Provide connection detail for the 12" pipe connection from the northwesterly pond to the existing storm drain pipe. This connection should be done under the City Workorder as well.
- Call out the existing storm drain structures as well as the type and size of the existing storm drain pipes.
- Can the entrance be shifted to the south? The proposed structure shown at the entrance on Turing Dr. SE should be shifted outside the Public Drainage Easement.
- The land treatment shown on the plan is different from the master drainage plan.
- Note 19 on sheet C103 references DRC plans. Is the note intended for the existing DRC plans for Turing Dr. SE?
- Where will be the excess dirt will be placed from this project (if any)?
- Maintenance and covenant should be updated for any changes to the existing ponds.
- Clearly show the property line on the plans. Will the property be re-platted since northern portion of the project is on a different Tract? If not, proper easements should be provided.
- Two different existing contours are shown on the plans.

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

- The Volume and As-built grades for the existing ponds do not appear on the DRC plans (COA Project No. 775476). Please provide as-built grades and pond volume calculations for the existing ponds. Is the volume adequate for the existing runoff and the proposed runoff from this development?
- Provide Pond routing calculations. Call out the maximum water surface elevations.
- Are there any riprap being proposed at the discharge point of the pipes into Pond B.

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

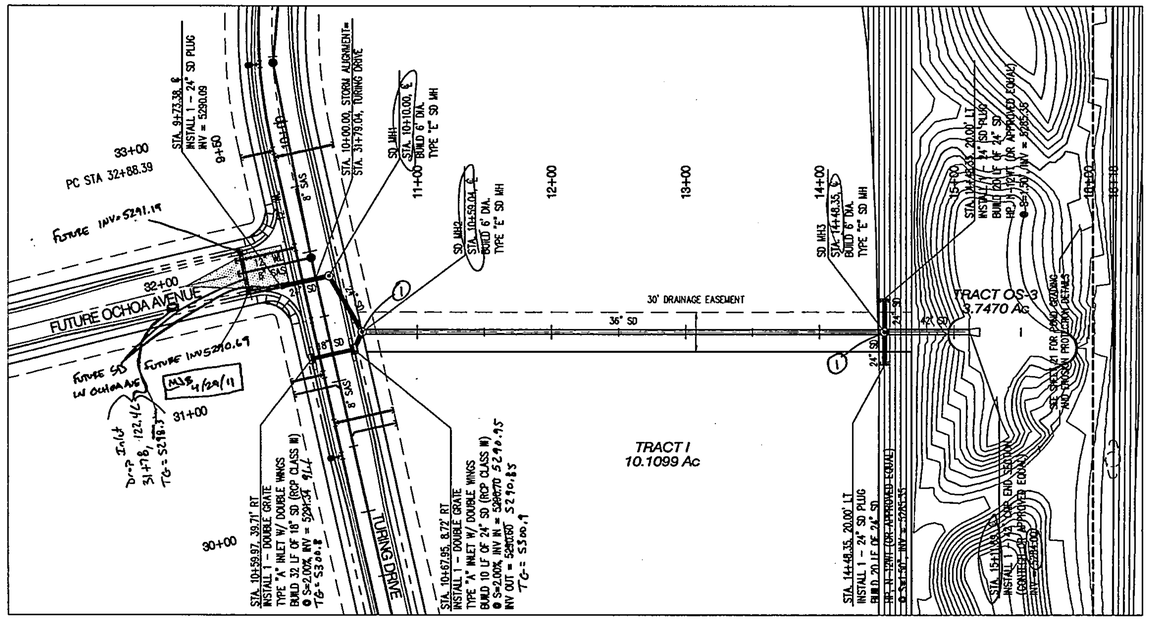
Sincerely,

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

C: e-mail

SCANNED BY PLANNING

RECORD DRAWINGS



STORM DRAIN ALIGNMENT

O KEYED NOTES
1. 2510 RESILIENT WATER STOP AT MH CONNECTION

NOTE
HP PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

N

50 25 0 50
SCALE: 1"=50'

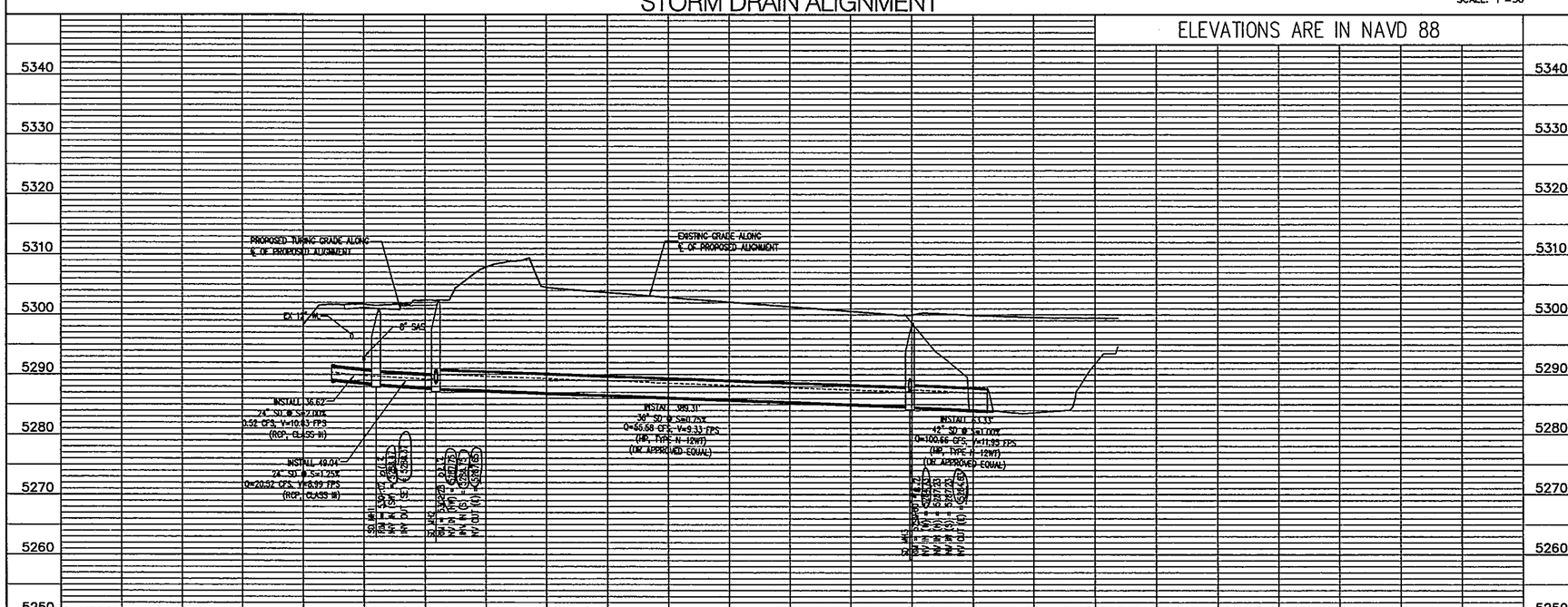
GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCES.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SAS & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESIS)
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND E.M.S. AT THE END OF EACH SANITARY SEWER SERVICE.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
6. CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
7. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
8. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
9. EXISTING AND PROPOSED MANHOLE RIMS, VALVE BOXES, & FIRE HYDRANT FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT GRADES.
10. SAS STATIONING FOLLOWS ℄ OF ROAD UNLESS OTHERWISE NOTED.
11. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
12. LEAN FILL PER COA STD. SPEC SECTION 207 IS TO BE USED AT ALL UTILITY CROSSINGS WITH LESS THAN 12 INCHES OF CLEARANCE. LEAN FILL IS TO BE INSTALLED TO A DISTANCE OF 5 FEET ON EACH SIDE OF THE SD ℄ FROM TOP OF SANITARY SEWER OR WATERLINE TO BOTTOM OF STORM DRAIN LINE.
13. ALL WATERLINE APPURTENANCES SHALL USE RESTRAINED JOINTS FROM MAINLINE TO FIRE HYDRANT OR CAP OF 10" WATERLINE BRANCH. RESTRAIN TEE AT MAIN PER COA STD DWG 2320.
14. SEE TYPICAL TRENCH COMPACTION DETAIL ON SHEET 20.

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LEGEND

- DOUBLE WATER METER
- SINGLE WATER METER
- WATER LINE SHUTOFF VALVE
- WATER LINE TEE
- SAS LATERAL
- SAS MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE



P:\20110249\CDP\Plans\PNP\20110249cdpnp01_NEW.dwg
April 29, 2011 - 9:01am

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

AS-BUILT INFORMATION
CONTRACTOR Eric Martinez DATE 6/14/11
FIELD VERIFIED BY Cardinale Surveys Inc. DATE 7/11
INSPECTOR'S NAME Ben Baldwin DATE 6/14/11
FIELD VERIFIED BY Cardinale Surveys Inc. DATE 7/11
DRAWINGS CORRECTED BY Ben Baldwin DATE 8/11
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-G-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JONATHAN M. WAGNER NEW MEXICO 20011 PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: BHW DATE: 12/2010
Drawn By: BHW DATE: 12/2010
Checked By: MJB DATE: 1/2011

Mesa del Sol

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

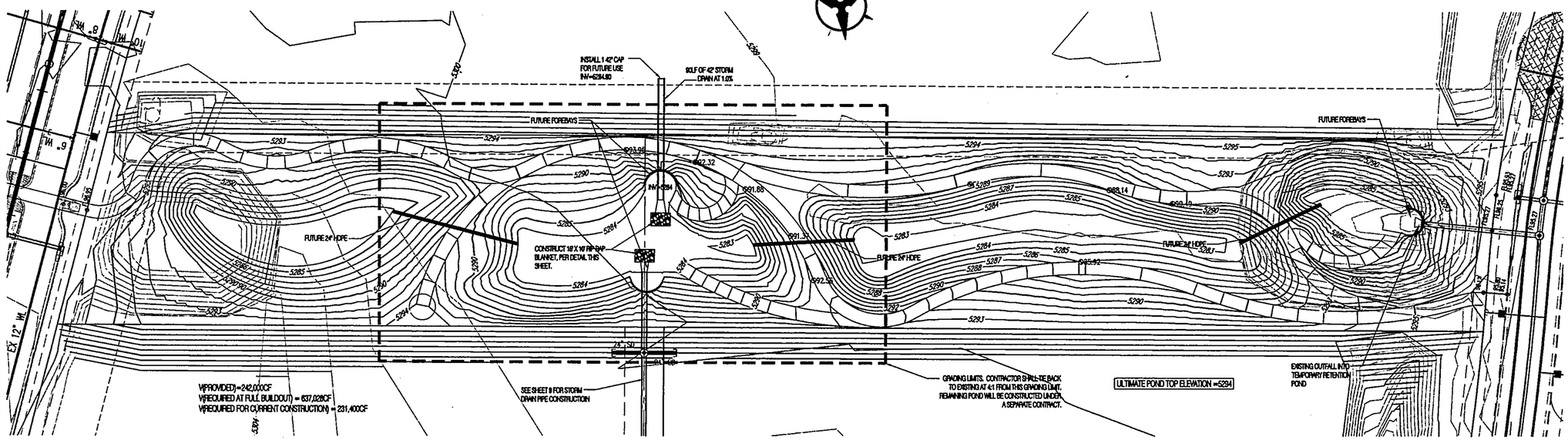
MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
STORM DRAIN ALIGNMENT
STORM PLAN AND PROFILE STA.9+50 TO STA.16+00

Design Review Committee: APPROVED MAY 23 2011 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JUN 02 2011 CITY ENGINEER
Next Design Update: No. /Day/Yr. | No. /Day/Yr.

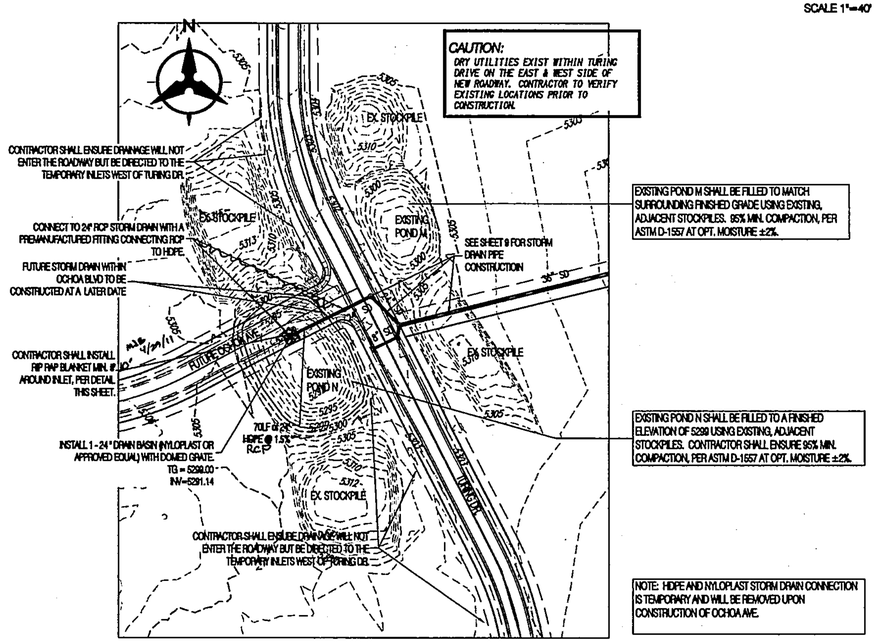
City Project No. 775476 | Zone Map No. R-16 | Sheet 15 Of 27 21

SCANNED BY PLANNING

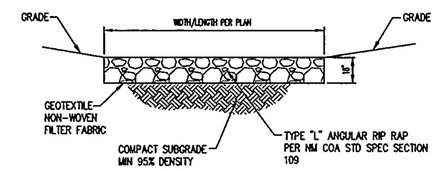
RECORD DRAWINGS



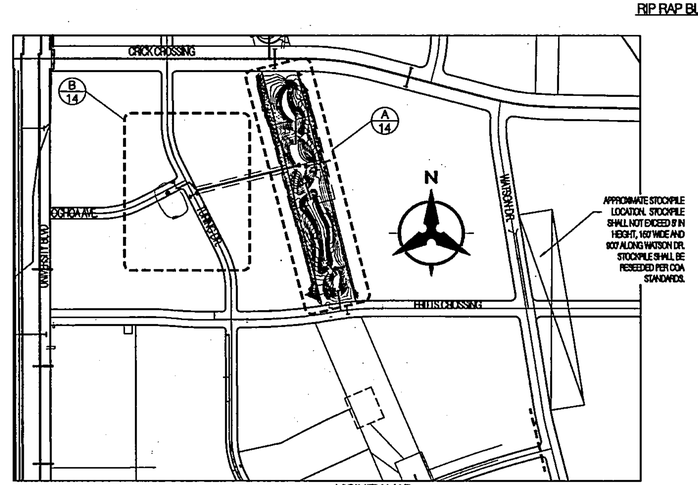
DETAIL A
SCALE 1"=40'



DETAIL B
SCALE 1"=80'



RIP RAP BLANKET DETAIL
N.T.S.



VICINITY MAP

NOTE: POND GRADING SHOWN HEREON IS FOR ROUGH GRADING PURPOSES ONLY. FINAL POND DESIGN AND DETAILS WILL BE PROVIDED WITH A FUTURE PLAN SET.

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
POND GRADING DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
X	X			

City Project No.	Zone Map No.	Sheet	Of
775476	R-16	21	22

AS-BUILT INFORMATION
CONTRACTOR Fennemore Craig DATE 8/11/11
WORK STAKED BY Cornerstone Surveying Inc. DATE 7-29-11
INSPECTED & ACCEPTANCE BY Bob Sisler DATE 11-9-11
REVIEWED BY Cornerstone Surveying Inc. DATE 7/21
DRAWINGS CORRECTED BY Bob Sisler DATE 8/11
MICROFILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-G-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
MICHAEL K. BARBOUROUTIS
NEW MEXICO
18187
LICENSED PROFESSIONAL ENGINEER
1-25-11

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: MJB DATE: 1/25/2011
Drawn By: MJB DATE: 1/25/2011
Checked By: CJS DATE: 1/25/2011

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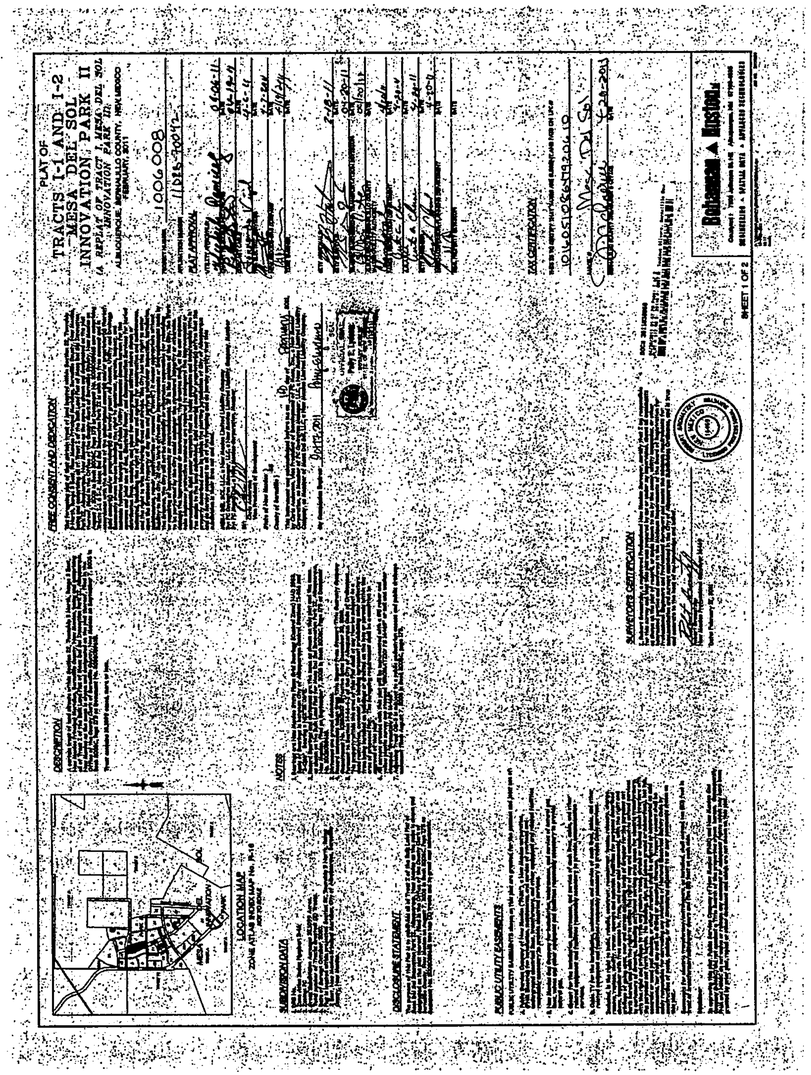
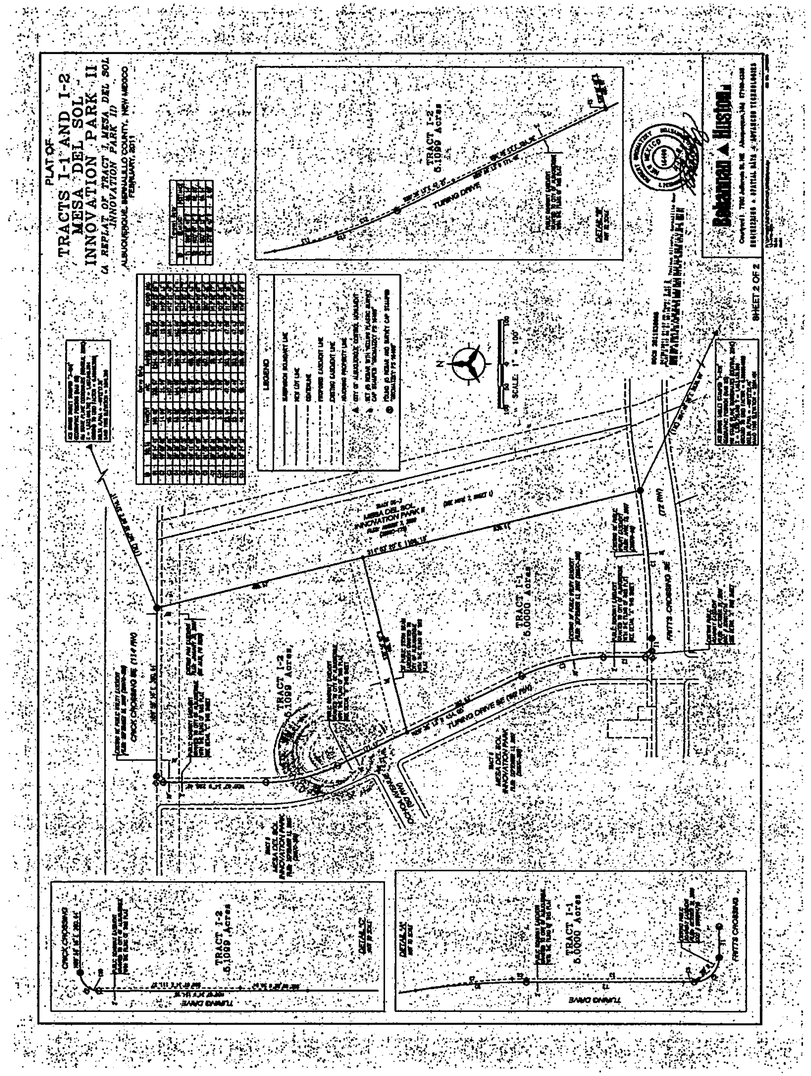
January 25, 2011 - 1:05pm

SCANNED BY
PLANNING

RECORD DRAWINGS





FOR INFORMATION ONLY

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

BENCH MARKS	
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-C-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)	

AS-BUILT INFORMATION	
CONTRACTOR Franklin's	DATE 1/6-14/11
WORK STAKED BY Cornerstone Surveys Inc.	DATE 1/4-7/11
INSPECTED BY Brashear	DATE 1/6-14/11
FIELD VERIFICATION BY Cornerstone Surveys Inc.	DATE 1/11
DRAWINGS MARKED BY Brashear	DATE 1/11
MICROFILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

FOR INFORMATION ONLY

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: CJS DATE: 08/18/08
Drawn By: BHW DATE: 11/24/2010
Checked By: JLM DATE: 12/2010

Mesa del Sol

Bohannan ▲ Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4336
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
FINAL PLAT
FOR INFORMATION ONLY

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
X	X			

City Project No.	Zone Map No.	Sheet	Of
775476	R-16	22	22

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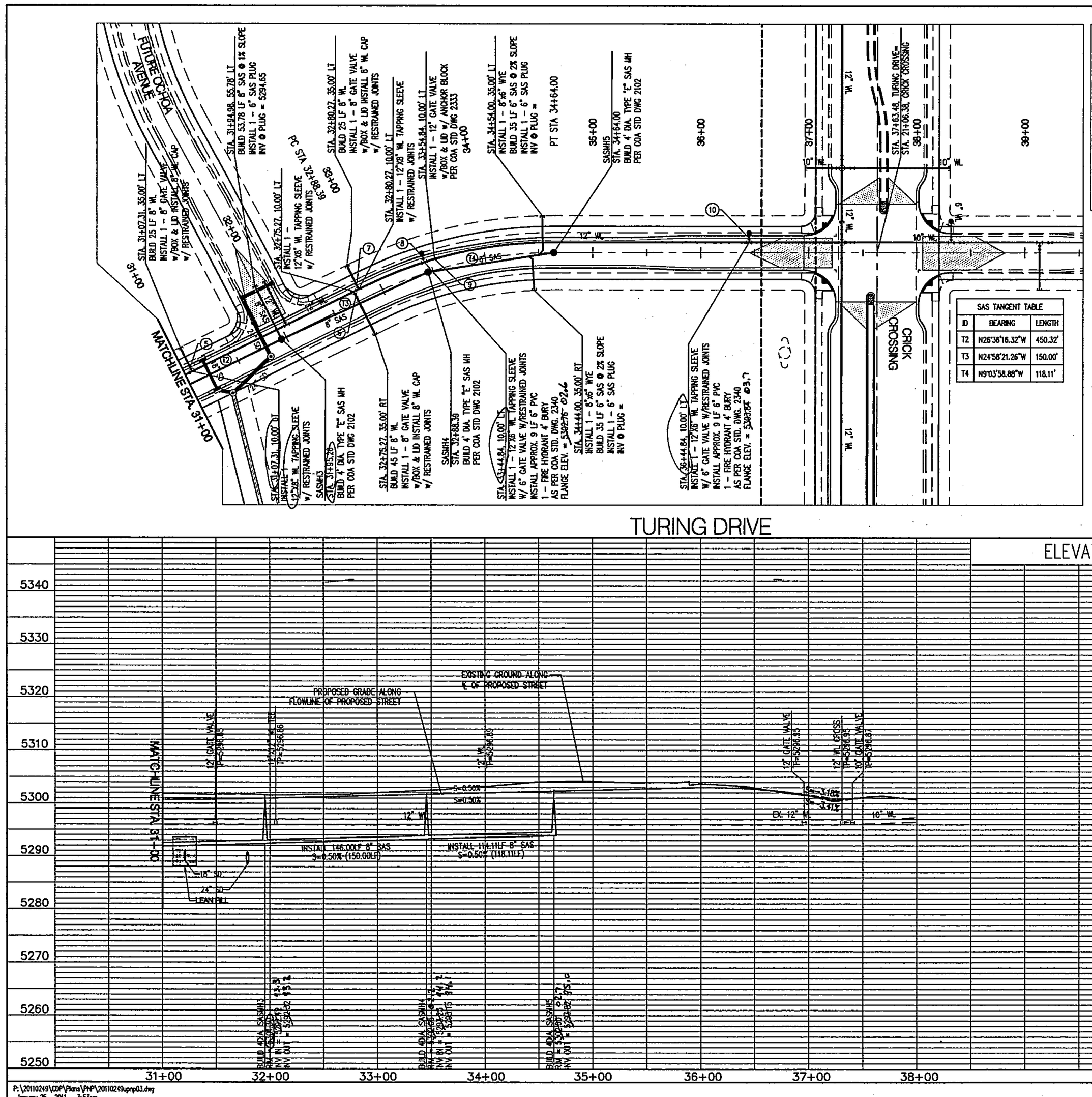
May 05, 2011 - 6:21pm

SCANNED BY PLANNING

RECORD DRAWINGS



MANHOLE/VALVE GPS TABLE				
MH/VALVE ID	NORTHING	EASTING	AS-BUILT NORTHING	AS-BUILT EASTING
5	1455549.49	1530280.35	1455549.47	1530283.57
6	1455703.24	1530212.29	1455699.41	1530210.25
7	1455704.13	1530202.90	1455703.06	1530205.35
8	1455765.48	1530177.02	1455766.52	1530178.92
9	1455776.26	1530177.84	1455777.62	1530177.25
10	1456067.81	1530157.15	1455067.73	1530159.82
SASMH3	1455634.39	1530253.49	1455635.51	1530252.67
SASMH4	1455770.36	1530190.16	1455770.98	1530189.86
SASMH5	1455886.99	1530171.55	1455889.33	1530171.43

SAS TANGENT TABLE		
ID	BEARING	LENGTH
T2	N26°58'16.32"W	450.32'
T3	N24°58'21.26"W	150.00'
T4	N9°03'58.88"W	118.11'

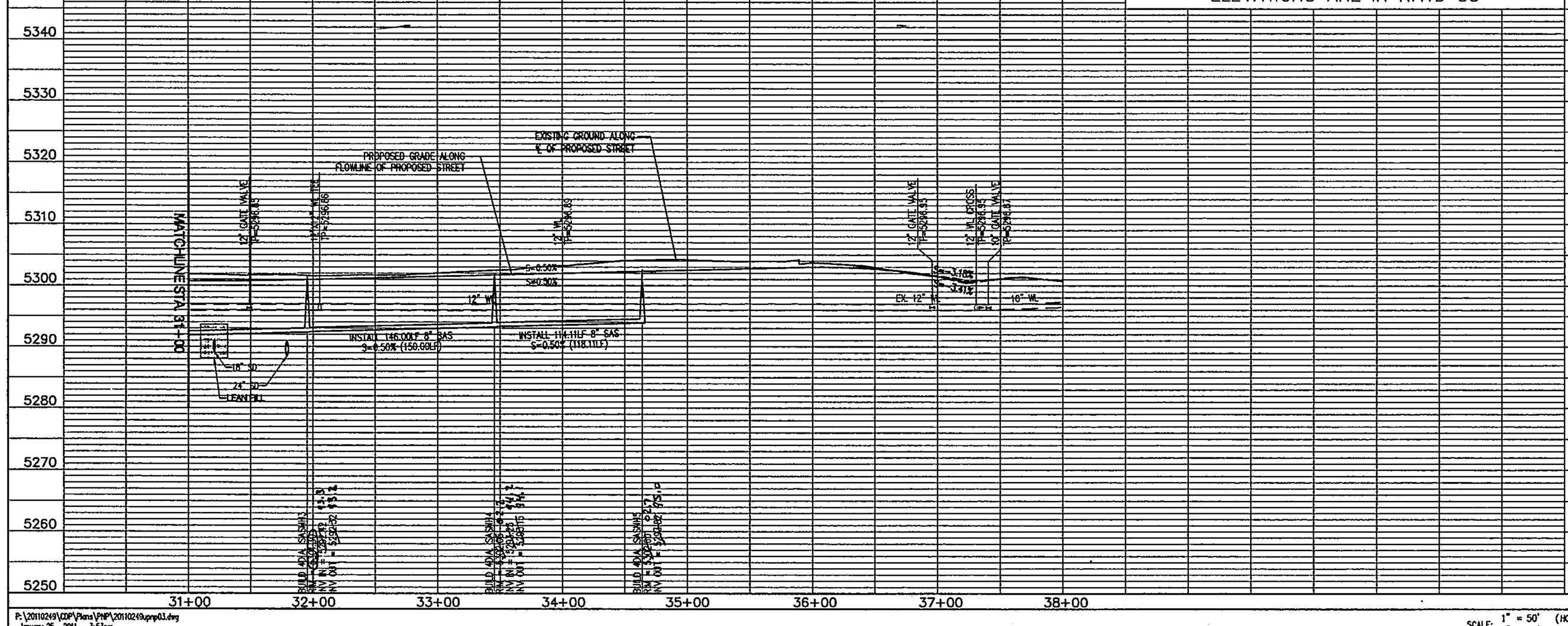
GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SAS & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESIS)
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND E.M.S. AT THE END OF EACH SANITARY SEWER SERVICE.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
6. CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
7. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
8. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
9. EXISTING AND PROPOSED MANHOLE RIMS, VALVE BOXES, & FIRE HYDRANT FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT GRADES.
10. SAS STATIONING FOLLOWS ℄ OF ROAD UNLESS OTHERWISE NOTED.
11. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
12. LEAN FILL PER COA STD. SPEC SECTION 207 IS TO BE USED AT ALL UTILITY CROSSINGS WITH LESS THAN 12 INCHES OF CLEARANCE. LEAN FILL IS TO BE INSTALLED TO A DISTANCE OF 5 FEET ON EACH SIDE OF THE SD ℄ FROM TOP OF SANITARY SEWER OR WATERLINE TO BOTTOM OF STORM DRAIN LINE.
13. ALL WATERLINE APPURTENANCES SHALL USE RESTRAINED JOINTS FROM MAINLINE TO FIRE HYDRANT OR CAP OF 10" WATERLINE BRANCH. RESTRAIN TEE AT MAIN PER COA STD DWG 2320.
14. SEE TYPICAL TRENCH COMPACTION DETAIL ON SHEET 20.

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LEGEND

- DOUBLE WATER METER
- SINGLE WATER METER
- WATER LINE SHUTOFF VALVE
- WATER LINE TEE
- SAS LATERAL
- SAS MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE



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January 25, 2011 - 3:53pm

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

Mesa del Sol

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
TURING DRIVE
UTILITY PLAN AND PROFILE STA.31+00 TO STA.38+00

Design Review Committee: APPROVED MAY 23 2011 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JUN 02 2011 CITY ENGINEER

Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
775476	R-16	18	22 / 27

AS-BUILT INFORMATION
CONTRACTOR Franklins DATE 11-19-11
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 11-19-11
INSPECTOR'S AS-BUILT BY Brasher DATE 11-19-11
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 12/11
DIRECTED BY Brasher DATE 12/11
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-D-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

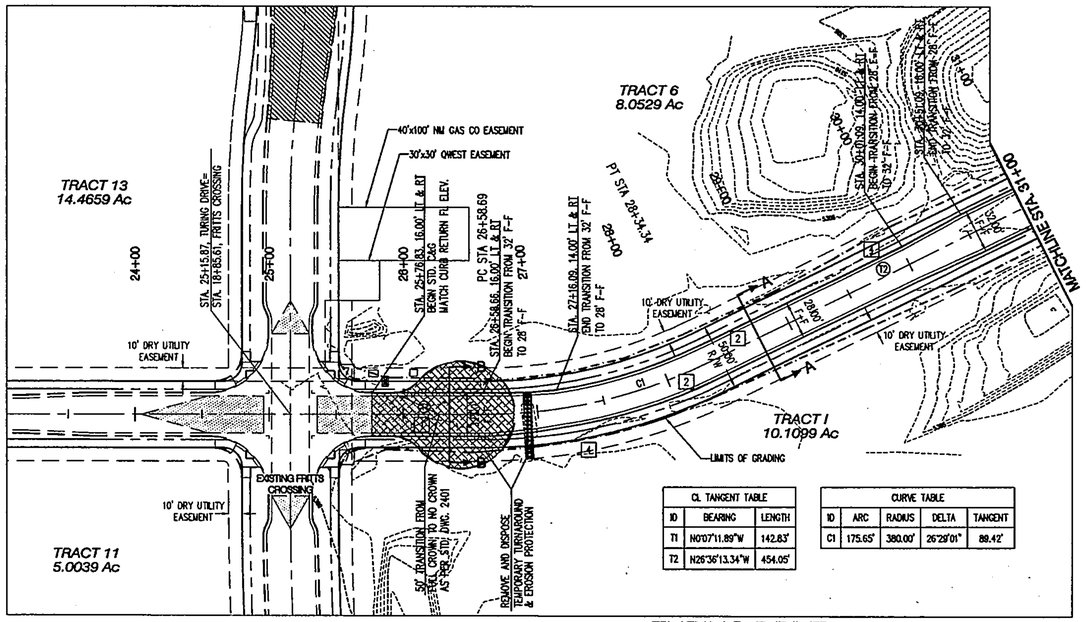
ENGINEER'S SEAL
BRIAN H. WALKER NEW MEXICO 9011 1-25-11 PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: BHW DATE: 12/2010
Drawn By: BHW DATE: 12/2010
Checked By: MJB DATE: 1/2011

SCANNED BY PLANNING

RECORD DRAWINGS



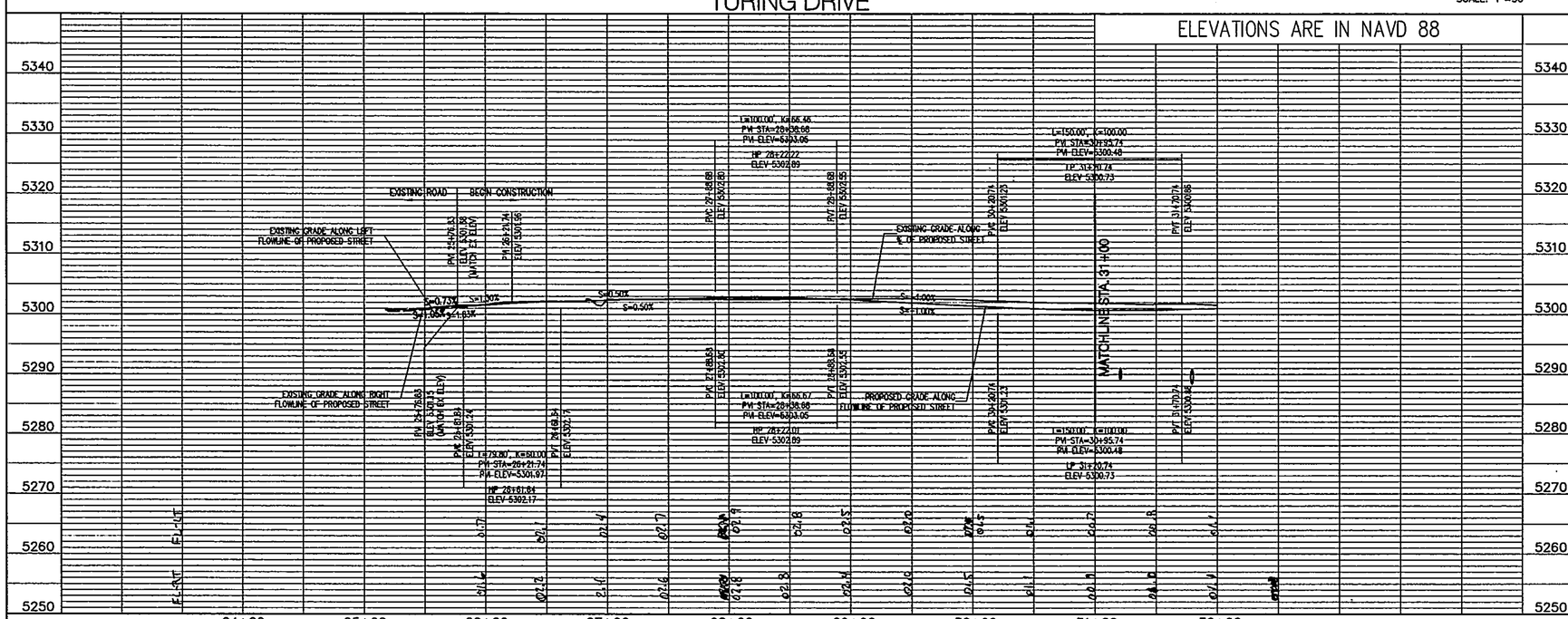
CL TANGENT TABLE		
ID	BEARING	LENGTH
T1	N0°07'11.89"W	142.83'
T2	N26°36'13.34"W	454.05'

CURVE TABLE				
ID	ARC	RADIUS	DELTA	TANGENT
C1	175.65'	380.00'	26°29'01"	89.42'

SCALE: 1"=50'

TURING DRIVE

ELEVATIONS ARE IN NAVD 88



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January 25, 2011 - 12:04pm

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 DISCREPANCES.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS TO INSTALL A 4"x 4"x 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
6. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
7. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
8. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
9. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
10. REMOVAL OF THE EXISTING CURB & GUTTER SHALL BE PER COA STD. DWG. 2415 (SAWCUT ONLY).
11. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
12. EXISTING & PROPOSED MANHOLE RIMS & CATCH BASIN INLET ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT ELEVATIONS.
13. FLOWLINE ELEVATIONS FOR DROP INLETS ARE PROJECTED FROM FLOWLINE OF STANDARD CURB TO MIDDLE OF DOWNHILL GRATE.
14. STATIONING OF DROP INLET IS TO MIDDLE OF DOWN HILL GRATE AT FACE OF CURB.
15. CONTRACTOR SHALL COORDINATE WITH MESA DEL SOL FOR MEDIAN NOSE PAVING PATTERN SELECTION.

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

KEYED NOTES

1. BUILD PAVEMENT PER SECTION, SEE SHEET 19
2. BUILD STD CURB & GUTTER PER COA STD DWG 2415A.
3. BUILD MEDIAN CURB & GUTTER PER COA STD DWG 2415B.
4. 6' SIDEWALK, DEFERRED.
5. INSTALL MIDBLOCK CURB RAMP PER SHEET 19
6. PAVE MEDIAN NOSE PER COA STD. DWG. 2502 & 2408, STD. DWG. 2406 (CONCRETE MEDIAN PAVING SECTION)
7. EXISTING ACCESS RAMP, PROTECT IN PLACE

AS-BUILT INFORMATION
CONTRACTOR Franklin's DATE 10/28/11
STAKED BY Carnahan Surveys Inc. DATE 9/1-2/11
INSPECTED BY Brasher DATE 5/11/11
FIELD VERIFIED BY Carnahan Surveys Inc. DATE 10/1/11
CORRECTIONS BY Brasher DATE 10/11/11
MICROFILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-0-14, 1987" FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
BRIAN H. WARREN NEW MEXICO 20011 PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: BHW DATE: 12/2010
Drawn By: BHW DATE: 12/2010
Checked By: MJB DATE: 1/2011

Mesa del Sol

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
TURING DRIVE
PAVING PLAN AND PROFILE STA.25+00 TO STA.31+00

Design Review Committee: APPROVED MAY 23 2011 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JUN 02 2011 CITY ENGINEER
Last Design Update: Mo./Day/Yr. | Mo./Day/Yr.

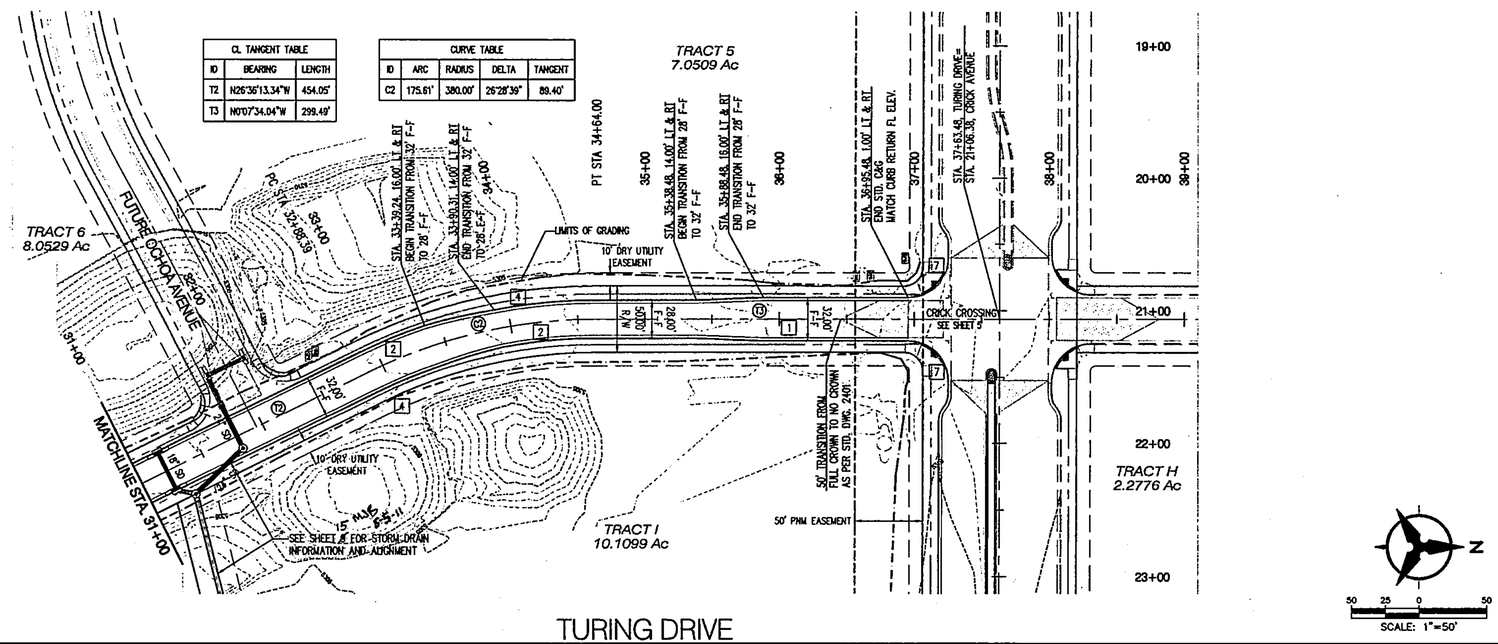
City Project No. 775476 | Zone Map No. R-16 | Sheet 13 Of 22 ~~21~~

SCANNED BY PLANNING

RECORD DRAWINGS

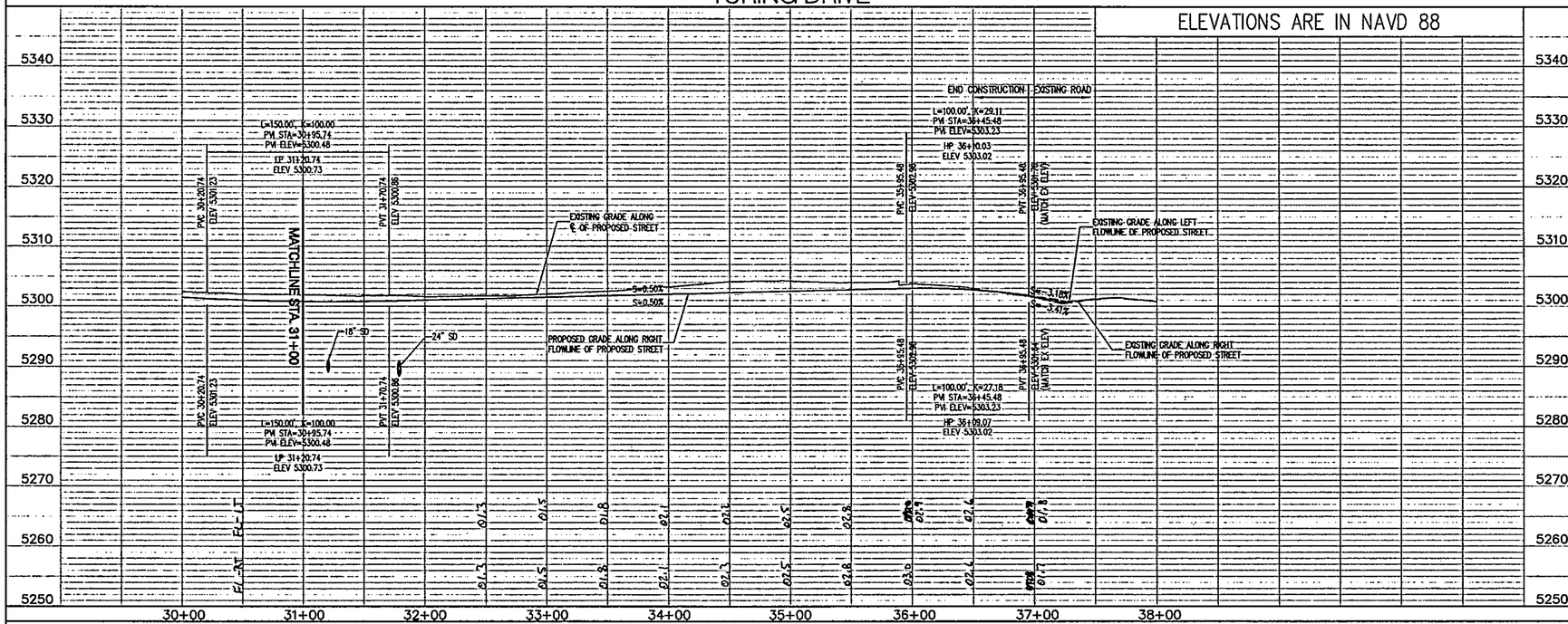
CL TANGENT TABLE		
ID	BEARING	LENGTH
T2	N26°36'13.34"W	454.05'
T3	N00°07'34.04"W	299.49'

CURVE TABLE				
ID	ARC	RADIUS	DELTA	TANGENT
C2	175.61'	380.00'	26°28'39"	89.40'



TURING DRIVE

ELEVATIONS ARE IN NAVD 88



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January 25, 2011 - 1:10pm

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
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10. REMOVAL OF THE EXISTING CURB & GUTTER SHALL BE PER COA STD. DWG. 2415 (SAWCUT ONLY).
11. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
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14. STATIONING OF DROP INLET IS TO MIDDLE OF DOWN HILL GRATE AT FACE OF CURB.
15. CONTRACTOR SHALL COORDINATE WITH MESA DEL SOL FOR MEDIAN NOSE PAVING PATTERN SELECTION.

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

KEYED NOTES

1. BUILD PAVEMENT PER SECTION SEE SHEET 19
2. BUILD STD CURB & GUTTER PER COA STD DWG 2415A.
3. BUILD MEDIAN CURB & GUTTER PER COA STD DWG 2415B.
4. 6' SIDEWALK, DEFERRED.
5. INSTALL MIDBLOCK CURB RAMP PER SHEET 19
6. PAVE MEDIAN NOSE PER COA STD. DWG. 2502 & 2408. STD. DWG. 2408 (CONCRETE MEDIAN PAVING SECTION)
7. EXISTING ACCESS RAMP, PROTECT IN PLACE

AS-BUILT INFORMATION

CONTRACTOR Franklins DATE 9-14-11
FIELD VERIFICATION BY Carlisle Surveys Inc. DATE 9-14-11
COMPUTER AIDED DRAFTING BY Carlisle Surveys Inc. DATE 9-14-11
FIELD VERIFICATION BY Carlisle Surveys Inc. DATE 9-14-11
DRAWING CORRECTIONS BY Carlisle Surveys Inc. DATE 9-14-11

BENCH MARKS

ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-Q-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)

MICROFILM INFORMATION

RECORDED BY DATE
MIL

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

BRYAN H. WARREN NEW MEXICO 20011 PROFESSIONAL ENGINEER 1-25-11

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: BHW DATE: 12/2010
Drawn By: BHW DATE: 12/2010
Checked By: MJB DATE: 1/2011

Mesa del Sol

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

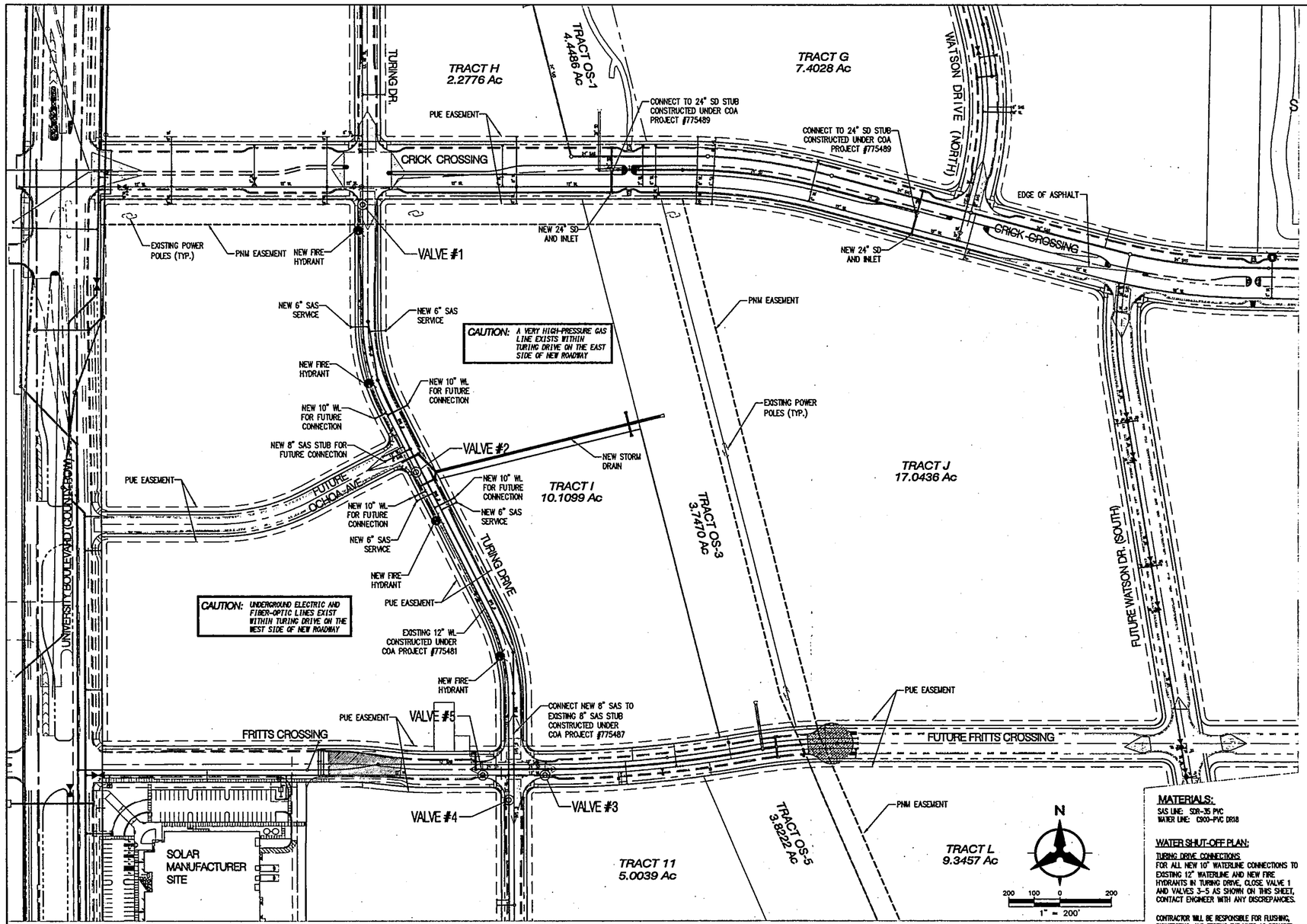
MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
TURING DRIVE
PAVING PLAN AND PROFILE STA.31+00 TO STA.38+00

Design Review Committee: PROVED MAY 23 2011 DESIGN REVIEW COMMITTEE
City Engineer Approval: PROVED JUN 02 2011 CITY ENGINEER
Last Design Update: No. /Date/Tr. | No. /Date/Tr.

City Project No. 775476 | Zone Map No. R-16 | Sheet 14 Of 22 21

SCANNED BY PLANNING

RECORD DRAWINGS



GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SAS & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESIS)
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND E.M.S. AT THE END OF EACH SANITARY SEWER SERVICE.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
6. CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
7. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
8. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
9. EXISTING AND PROPOSED MANHOLE RIMS, VALVE BODIES, & FIRE HYDRANT FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT GRADES.
10. SAS STATIONING FOLLOWS CL OF ROAD UNLESS OTHERWISE NOTED.
11. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
12. LEAN FILL PER COA STD. SPEC SECTION 207 IS TO BE USED AT ALL UTILITY CROSSINGS WITH LESS THAN 12 INCHES OF CLEARANCE.

LEGEND

	PROPERTY LINE
	NEW EASEMENT
SAS	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
	EXISTING STORM DRAIN
	EXISTING WATER METER
	EXISTING CAP
	EXISTING VALVE
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM DRAIN
SAS	PROPOSED SANITARY SEWER
WL	PROPOSED WATER LINE
	PROPOSED VALVE
	PROPOSED HYDRANT
	PROPOSED CAP
	PROPOSED WATER METER
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED STORM DRAIN

RESTRAINING JOINT REQUIREMENTS:

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS, UNLESS SPECIFIED DIFFERENTLY IN THE PLANS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL 8" BRANCH PIPE JOINTS FROM THE TEE ON THE MAIN TO THE CAP.
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

MATERIALS:

SAS LINE: SDR-35 PVC
WATER LINE: C900-PVC DR18

WATER SHUT-OFF PLAN:

TURING DRIVE CONNECTIONS
FOR ALL NEW 10" WATERLINE CONNECTIONS TO EXISTING 12" WATERLINE AND NEW FIRE HYDRANTS IN TURING DRIVE, CLOSE VALVE 1 AND VALVES 3-5 AS SHOWN ON THIS SHEET, CONTACT ENGINEER WITH ANY DISCREPANCIES.

CONTRACTOR WILL BE RESPONSIBLE FOR FLUSHING, DISINFECTING, AND TESTING THE LINES AS REQUIRED BY THE ABCWUA.

WATER SHUT-OFF REQUIREMENTS:

CONTRACTOR WILL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF CONNECTIONS. AT LEAST SEVEN (7) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ABCWUA TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.
CONTRACTOR SHALL NOT OPERATE VALVES ON THE PROJECT.

AS-BUILT INFORMATION

CONTRACTOR Frontier Grading DATE 8/31/10
REVISIONS BY Cartesian Surveys Inc. DATE 11/2/10
ADDITIONAL INFORMATION BY R.G. Larson & Assoc. DATE 11/15/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 11/1/11
DRAWINGS CORRECTED BY R.G. Larson & Assoc. DATE 11/1/11
MICROFILM INFORMATION DATE
RECORDED BY
NO.

BENCH MARKS

ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-O-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

BRIAN H. WARTH NEW MEXICO 20911 1-25-11 PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: BHW DATE:12/2010
Drawn By: BHW DATE:12/2010
Checked By: MJB DATE:1/2011

Mesa del Sol

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL - TRACT I & TRACT G PUBLIC INFRASTRUCTURE
OVERALL UTILITY PLAN

Design Review Committee: APPROVED MAY 23 2011 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JUN 02 2011 CITY ENGINEER
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 775476 | Zone Map No. R-16 | Sheet 16 Of 22 21

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