DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Book 2 — Plates

April, 2008

Prepared by:

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC.

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May 6, 2008

TRANSMITTAL

Ms. Felicia Terry, P.E.
Flood Control District of Maricopa County
Mapping and Surveying Section
2801 W. Durango Street
Phoenix, AZ 85009

Attached are the following materials provided by JEFuller/ Hydrology & Geomorphology, Inc.:

- Replacement pages and data CD for the *Desert Drive Area Study – Volume II – Existing Conditions Inundation and Sedimentation Analysis for PVR Structures.*

Comments:

Greetings Felicia – Manish Patel of ASLD asked me to forward these replacement pages and CD to you for updating the DDA Volume II binders you have. None of the maps changed nor anything in Appendices B-F. Please replace all other sections with the new ones provided. This is the final submittal of Desert Drive Area Study materials. If you have any questions about this, please contact Manish Patel at mpatel@land.az.gov or 602-364-1596, or you can call or email me.

Thanks,

W. Scott Ogden

JE Fuller/Hydrology & Geomorphology, Inc.

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VOLUME II

Existing Conditions
Inundation and Sedimentation Analysis
for PVR Structures

Book 2 - Plates

April, 2008

Exp. 3/30/2010

Prepared for:

Arizona State Land Department
Engineering Division
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Phoenix, AZ 85007

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ENCLOSED DATA CD

- **Digital Copy of Report and Maps in PDF Format**
- **GIS Shapefile Coverages of FLO-2D Project Elements**
- **FLO-2D Model Input and Output Files**
- **Inflow HEC-1 Model Input and Output Files**
- **Emergency Spillway HEC-RAS Data Files**

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Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

- FLO2D_Boundary
- Powerline FRS Watershed
- Rittenhouse FRS Watershed
- Vineyard FRS Watershed
- DDA_ExCond_TcPath
- DDA_ExCond_RoutePath
- DDA_ExCond_ConcentrationPts

23625 — Inflow Node Location and Grid No.

N W E S

0 0.3 0.6 1.2 Miles

PLATE A

HEC-1 Concentration Point Reference Map

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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
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- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

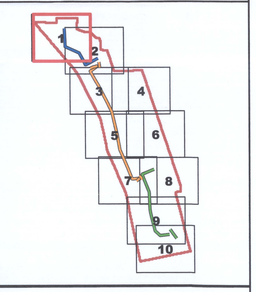

PLATE B1

Existing Conditions FLO-2D Results
100-Year, 24-Hour Simulation

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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

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- 0.00 - 0.10
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- 0.51 - 1.00
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N W E S

0 300 600 1,200

Feet

KEY MAP

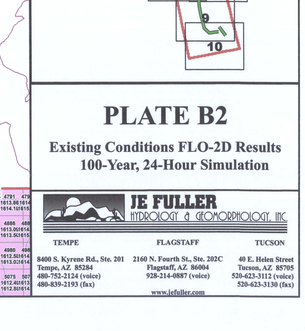

PLATE B2

Existing Conditions FLO-2D Results
100-Year, 24-Hour Simulation

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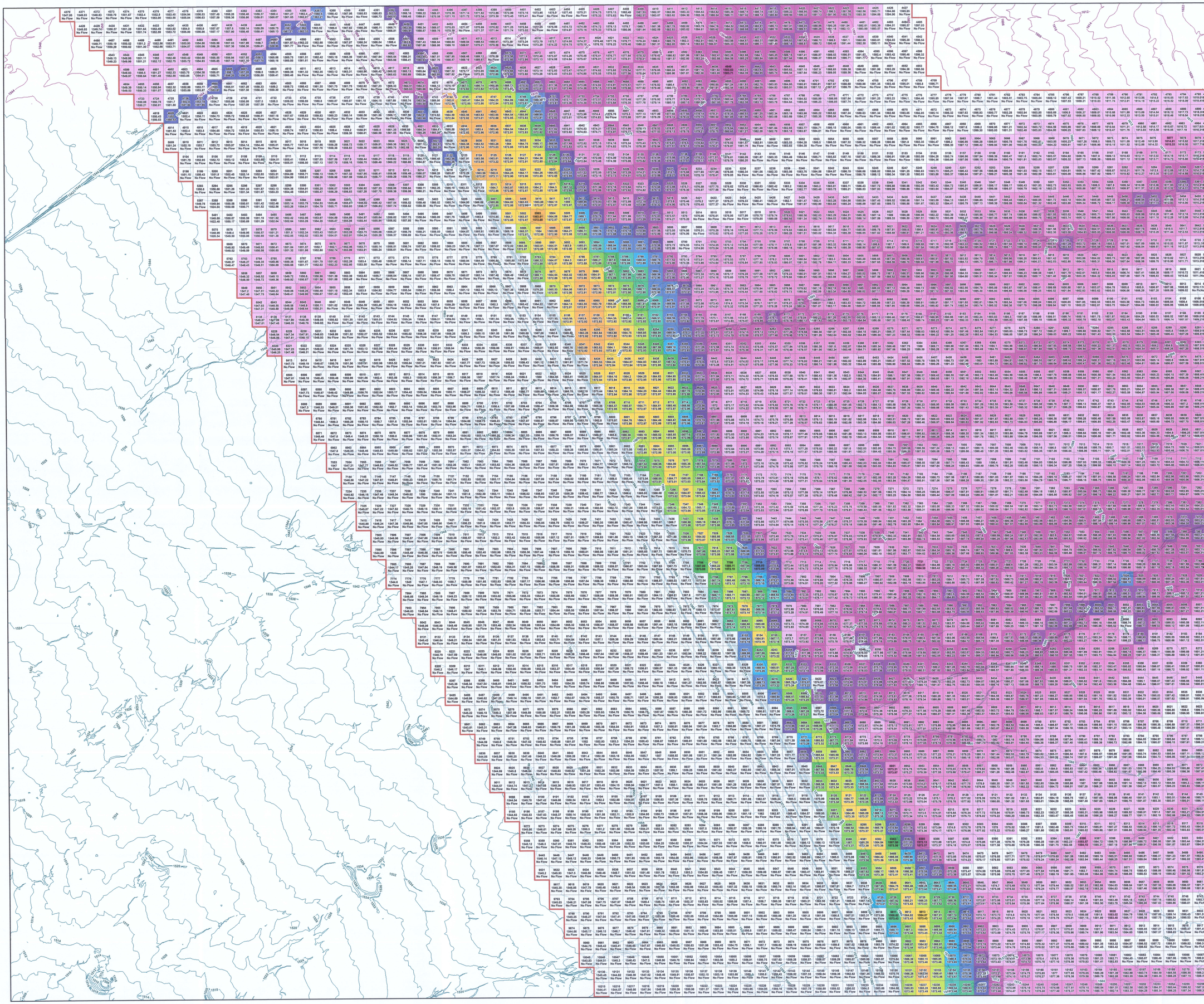

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
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- 25.01 - 30.00

11250 → FLO-2D Grid No.

1580.42 → Grid Ground Elevation

1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

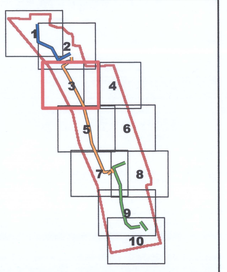

PLATE B3

Existing Conditions FLO-2D Results
100-Year, 24-Hour Simulation

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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
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- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
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- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200
Feet

KEY MAP

PLATE B4

Existing Conditions FLO-2D Results
100-Year, 24-Hour Simulation

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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
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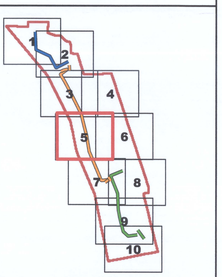
N W E S

0 300 600 1,200
Feet

KEY MAP



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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
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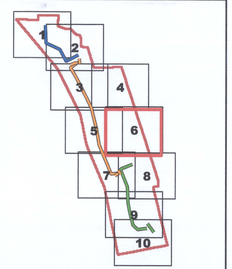
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP



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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

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1580.42 → Grid Ground Elevation

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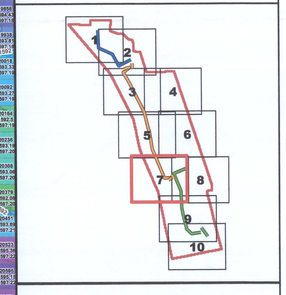
N W E S

0 300 600 1,200

Feet

KEY MAP



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Existing Conditions FLO-2D Results 100-Year, 24-Hour Simulation

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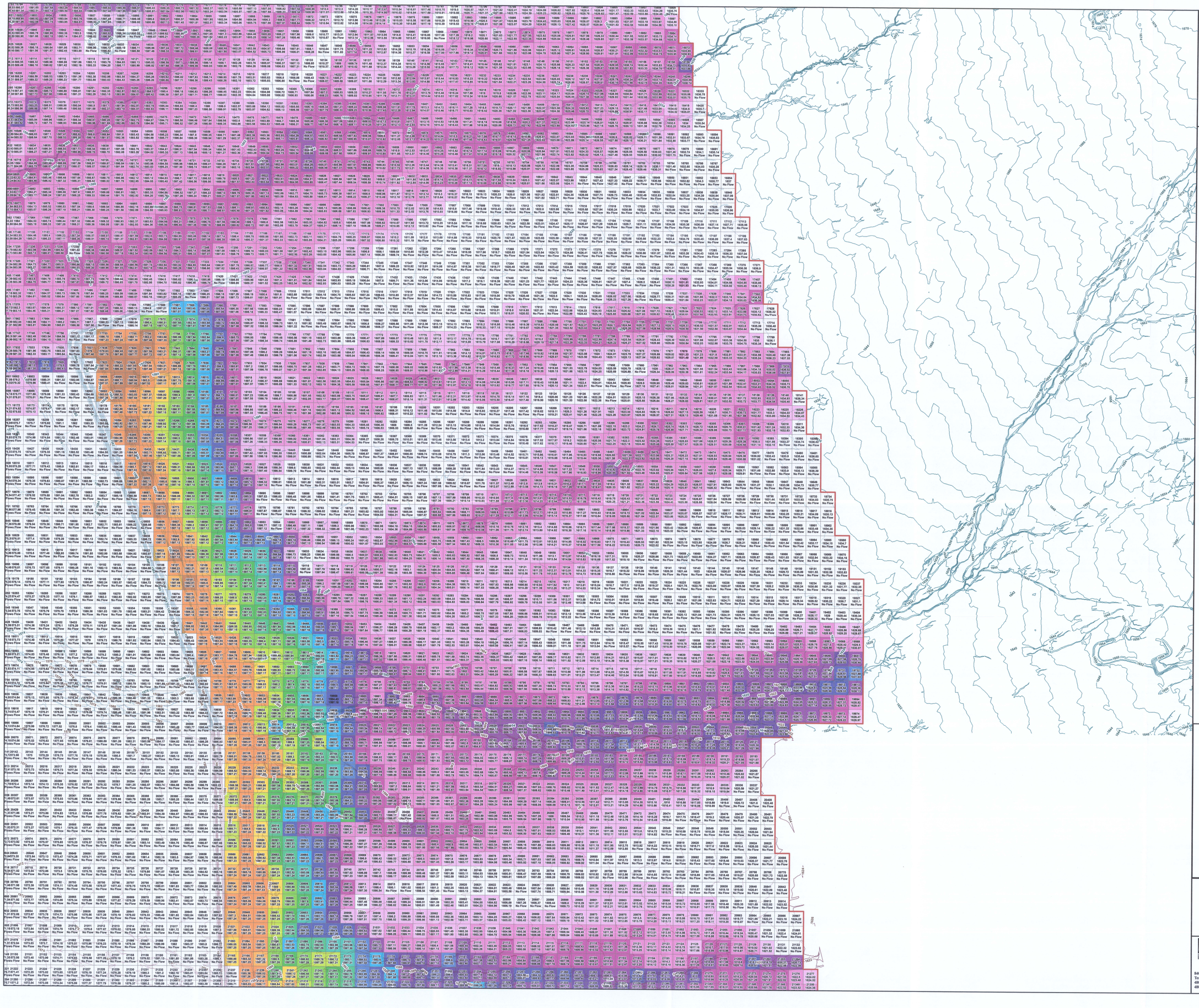

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Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

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1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

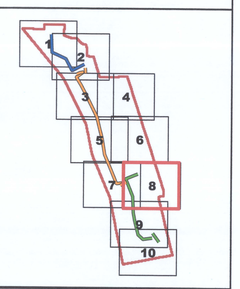

PLATE B8

Existing Conditions FLO-2D Results 100-Year, 24-Hour Simulation

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FLO2D_Grid_100Y24H

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11250 → FLO-2D Grid No.

1580.42 → Grid Ground Elevation

1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

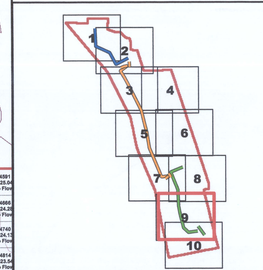

PLATE B9

Existing Conditions FLO-2D Results
100-Year, 24-Hour Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice)	40 E. Helen Street Tucson, AZ 85705 520-623-3112 (voice) 520-623-3130 (fax)

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Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_100Y24H

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.

1580.42 → Grid Ground Elevation

1583.61 → Maximum Water Surface Elevation

N

W E

S

0 300 600 1,200

Feet

KEY MAP

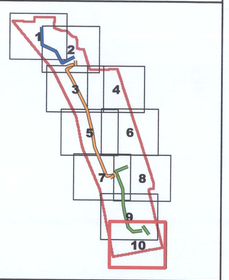

PLATE B10

Existing Conditions FLO-2D Results 100-Year, 24-Hour Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ 85284
480-752-2124 (voice)
480-839-2193 (fax)

FLAGSTAFF
2160 N. Fourth St., Ste. 202C
Flagstaff, AZ 86004
928-214-0887 (voice)

TUCSON
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Tucson, AZ 85705
520-623-3112 (voice)
520-623-3130 (fax)

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Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

PLATE C1

Existing Conditions FLO-2D Results 72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ. 85284
480-752-2124 (voice)
480-839-2193 (fax)

FLAGSTAFF
2160 N. Fourth St., Ste. 202C
Flagstaff, AZ. 86004
928-214-0887 (voice)
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40 E. Helen Street
Tucson, AZ. 85705
520-623-3112 (voice)
520-623-1330 (fax)

Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

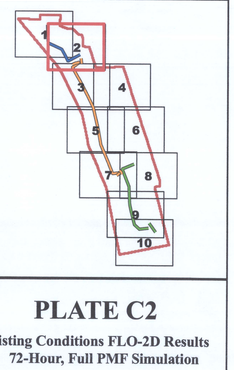

PLATE C2

Existing Conditions FLO-2D Results 72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ 85284
480-753-2124 (voice)
480-839-2193 (fax)

FLAGSTAFF
2160 N. Fourth St., Ste. 202C
Flagstaff, AZ 86004
928-214-0887 (voice)
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TUCSON
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Tucson, AZ 85705
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520-623-3130 (fax)

Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

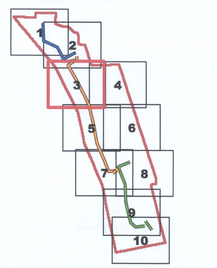

PLATE C3

Existing Conditions FLO-2D Results 72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ 85284
480-752-2124 (voice)
480-839-2193 (fax)

FLAGSTAFF
2160 N. Fourth St., Ste. 202C
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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

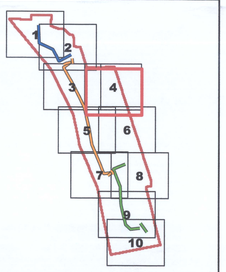

PLATE C4

Existing Conditions FLO-2D Results 72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ. 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice)	40 E. Helen Street Tucson, AZ 85705 520-623-3112 (voice) 520-623-3130 (fax)

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

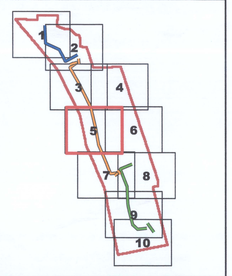

PLATE C5

Existing Conditions FLO-2D Results
72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ 85284
480-752-2124 (voice)
480-839-2193 (fax)

FLAGSTAFF
2160 N. Fourth St., Ste. 202C
Flagstaff, AZ 86004
928-214-0887 (voice)

TUCSON
40 E. Helen Street
Tucson, AZ 85705
520-623-3112 (voice)
520-623-3130 (fax)

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Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

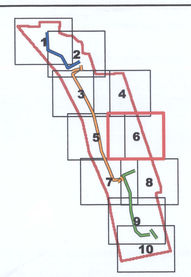

PLATE C6

Existing Conditions FLO-2D Results
72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201	2160 N. Fourth St., Ste. 202C	40 E. Helen Street
Tempe, AZ 85284	Flagstaff, AZ 86004	Tucson, AZ 85705
480-752-2124 (voice)	928-214-0887 (voice)	520-623-3112 (voice)
480-839-2193 (fax)		520-623-3130 (fax)

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Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

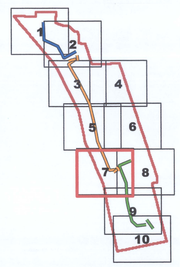

PLATE C7

Existing Conditions FLO-2D Results
72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice)	40 E. Helen Street Tucson, AZ 85705 520-623-3112 (voice) 520-623-3130 (fax)

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

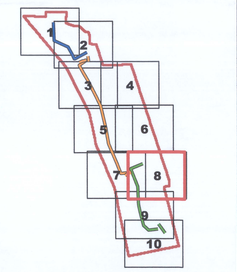

PLATE C8

Existing Conditions FLO-2D Results 72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice)	40 E. Helen Street Tucson, AZ 85705 520-623-3112 (voice) 520-623-3130 (fax)

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

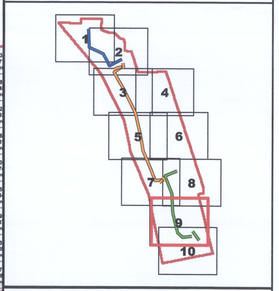

PLATE C9

Existing Conditions FLO-2D Results
72-Hour, Full PMF Simulation

JE FULLER
HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ 85284
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480-839-2193 (fax)

FLAGSTAFF
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Flagstaff, AZ 86004
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TUCSON
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Tucson, AZ 85705
520-623-3112 (voice)
520-623-3130 (fax)

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrFullPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

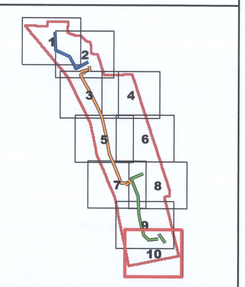

PLATE C10

Existing Conditions FLO-2D Results 72-Hour, Full PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201	2160 N. Fourth St., Ste. 202C	40 E. Helen Street
Tempe, AZ 85284	Flagstaff, AZ 86004	Tucson, AZ 85705
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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

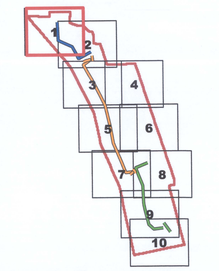

PLATE D1

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
Tempe, AZ 85284
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480-839-2193 (fax)

FLAGSTAFF
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Flagstaff, AZ 86004
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TUCSON
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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200
Feet

KEY MAP

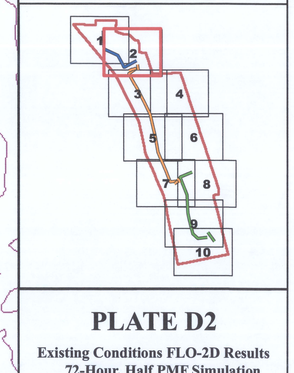

PLATE D2

Existing Conditions FLO-2D Results 72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.

TEMPE
8400 S. Kyrene Rd., Ste. 201
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2160 N. Fourth St., Ste. 202C
Flagstaff, AZ 86004
928-214-0887 (voice)
www.jefuller.com

TUCSON
40 E. Helen Street
Tucson, AZ 85705
520-623-3112 (voice)
520-623-3130 (fax)

Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

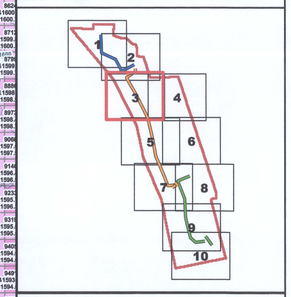

PLATE D3

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201	2160 N. Fourth St., Ste. 202C	40 E. Helen Street
Tempe, AZ 85284	Flagstaff, AZ 86004	Tucson, AZ 85705
480-752-2124 (voice)	928-214-0887 (voice)	520-623-3112 (voice)
480-839-2193 (fax)		520-623-3130 (fax)

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200
Feet

KEY MAP

PLATE D4

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
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520-623-3130 (fax)

Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

PLATE D5

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
8400 S. Kyrene Rd., Ste. 201
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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

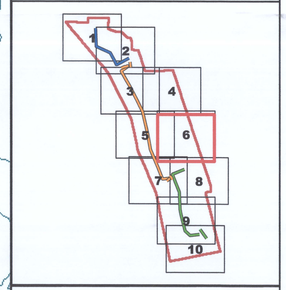

PLATE D6

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice) www.jefuller.com	40 E. Helen Street Tucson, AZ 85705 520-623-3112 (voice) 520-623-3130 (fax)

Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200
Feet

KEY MAP

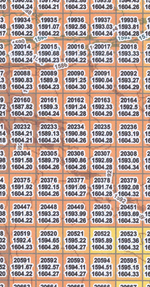

PLATE D7

Existing Conditions FLO-2D Results 72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.

TEMPE
8400 S. Kyrene Rd., Ste. 201
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Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.

1580.42 → Grid Ground Elevation

1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

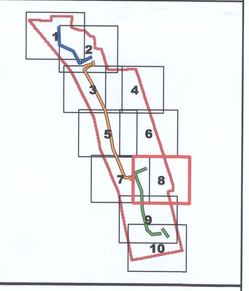

PLATE D8

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice)	40 E. Helen Street Tucson, AZ 85705 928-623-3112 (voice) 520-623-3130 (fax)

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DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N W E S

0 300 600 1,200

Feet

KEY MAP

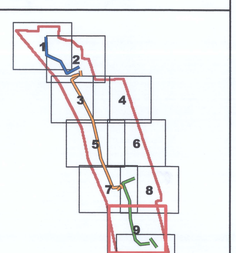

PLATE D9

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE	FLAGSTAFF	TUCSON
8400 S. Kyrene Rd., Ste. 201 Tempe, AZ 85284 480-752-2124 (voice) 480-839-2193 (fax)	2160 N. Fourth St., Ste. 202C Flagstaff, AZ 86004 928-214-0887 (voice) www.jefuller.com	40 E. Helen Street Tucson, AZ 85705 520-623-3112 (voice) 520-623-3130 (fax)

Arizona State Land Department

DESERT DRIVE AREA STUDY VOLUME II

Existing Conditions Inundation and Sedimentation Analysis for PVR Structures

Legend

FLO2D_Boundary

FLO2D_Grid_72HrHalfPMF

Maximum Depth of Flow

- 0.00 - 0.10
- 0.11 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00
- 10.01 - 15.00
- 15.01 - 20.00
- 20.01 - 25.00
- 25.01 - 30.00

11250 → FLO-2D Grid No.
1580.42 → Grid Ground Elevation
1583.61 → Maximum Water Surface Elevation

N
W E
S

0 300 600 1,200
Feet

KEY MAP

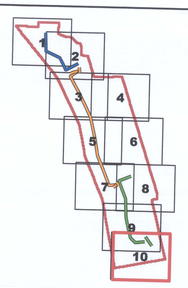

PLATE D10

Existing Conditions FLO-2D Results
72-Hour, Half PMF Simulation

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC

TEMPE
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