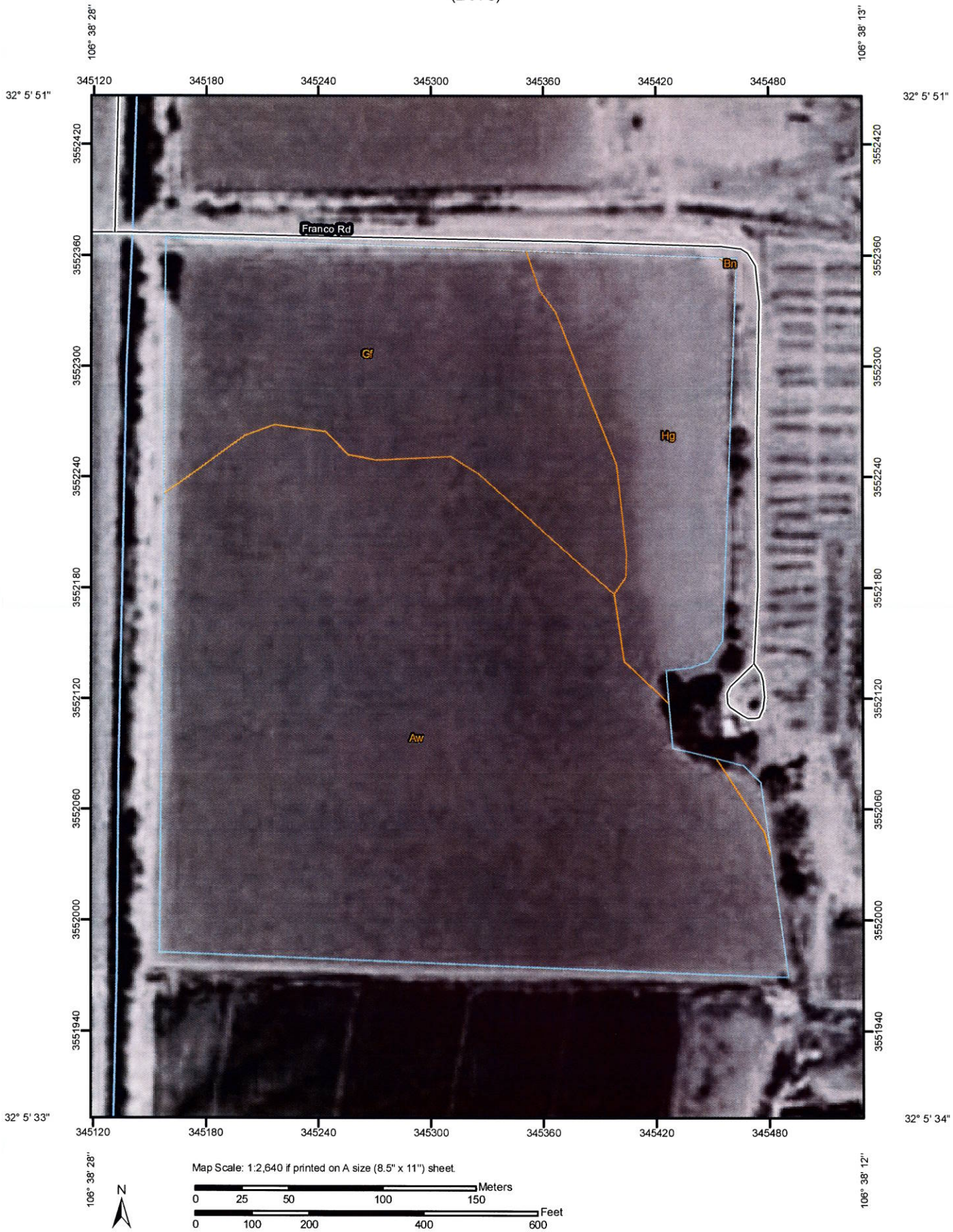
Soil Map—Dona Ana County Area, New Mexico
(LAA-C)



Map Scale: 1:2,640 if printed on A size (8.5" x 11") sheet.

Meters: 0 25 50 100 150

Feet: 0 100 200 400 600

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Units

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features

- Gully
- Short Steep Slope
- Other

Political Features

- Cities

Water Features

- Oceans
- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:2,640 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dona Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009

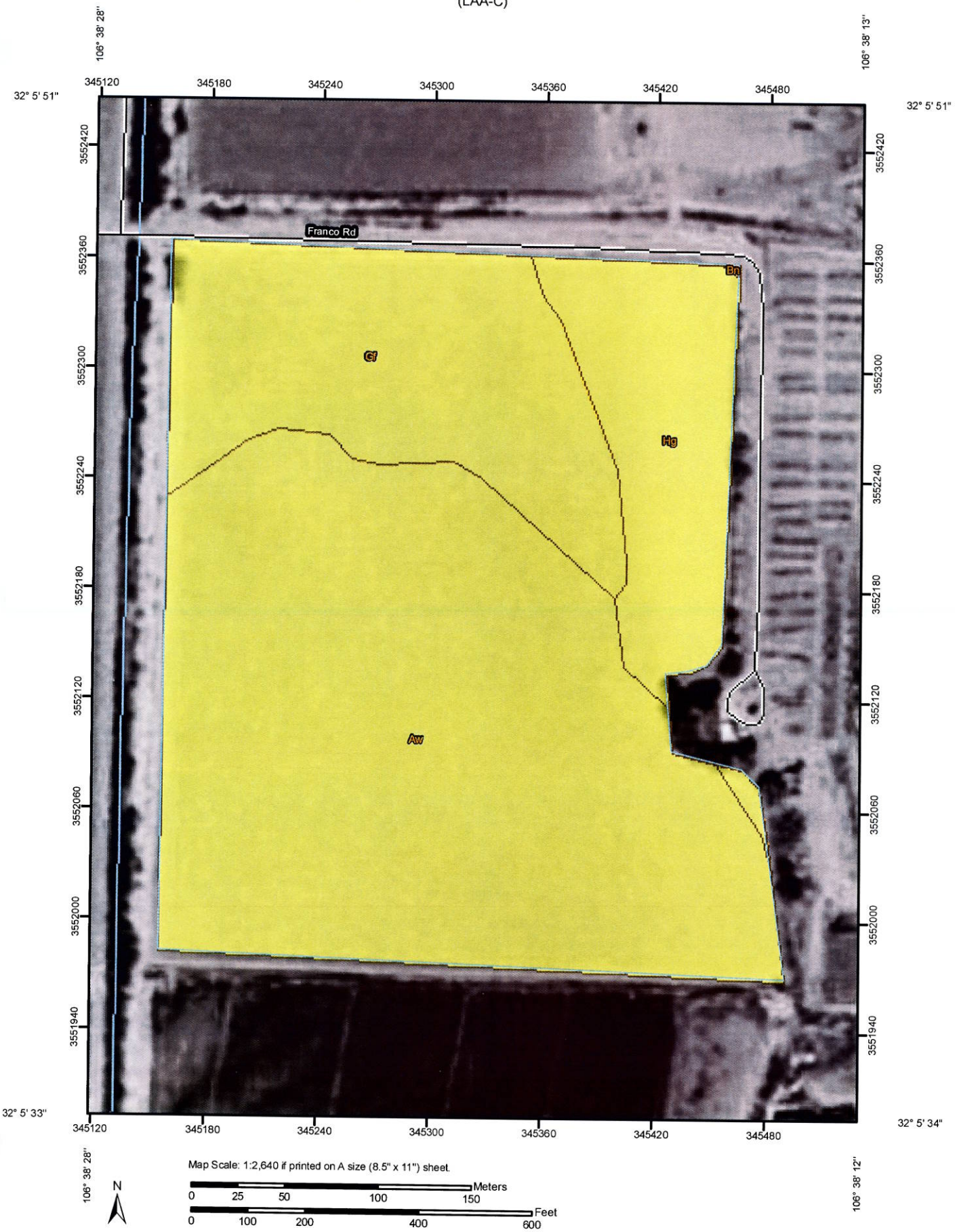
Date(s) aerial images were photographed: 3/9/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Dona Ana County Area, New Mexico (NM690)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
Aw	Armijo clay loam	18.3	62.7%
Bn	Bluepoint loamy sand, 5 to 15 percent slopes	0.0	0.0%
Gf	Glendale clay loam	6.9	23.5%
Hg	Harkey loam	4.0	13.8%
Totals for Area of Interest		**29.2**	**100.0%**

Drainage Class—Dona Ana County Area, New Mexico
(LAA-C)



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Soil Ratings

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Not rated or not available

Political Features

Cities

Water Features

Oceans

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

Map Scale: 1:2,640 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

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Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dona Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009

Date(s) aerial images were photographed: 3/9/1996

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Drainage Class

Drainage Class— Summary by Map Unit — Dona Ana County Area, New Mexico				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
Aw	Armijo clay loam	Well drained	18.3	62.7%
Bn	Bluepoint loamy sand, 5 to 15 percent slopes	Somewhat excessively drained	0.0	0.0%
Gf	Glendale clay loam	Well drained	6.9	23.5%
Hg	Harkey loam	Well drained	4.0	13.8%
Totals for Area of Interest			**29.2**	**100.0%**

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Dona Ana County Area, New Mexico				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
Aw	Armijo clay loam	D	18.3	62.7%
Bn	Bluepoint loamy sand, 5 to 15 percent slopes	A	0.0	0.0%
Gf	Glendale clay loam	B	6.9	23.5%
Hg	Harkey loam	B	4.0	13.8%
Totals for Area of Interest			**29.2**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Soil Map—Dona Ana County Area, New Mexico
(LAA-D)

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Gully

Short Steep Slope

Other

Political Features

Cities

Water Features

Oceans

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

Map Scale: 1:3,560 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dona Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009

Date(s) aerial images were photographed: 3/9/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Dona Ana County Area, New Mexico (NM690)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
Ao	Anapra clay loam	2.8	12.8%
Bg	Belen clay	6.9	32.2%
Ge	Glendale loam	1.9	8.8%
Gf	Glendale clay loam	9.9	46.2%
Totals for Area of Interest		**21.5**	**100.0%**

Drainage Class—Dona Ana County Area, New Mexico
(LAA-D)

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Soil Ratings

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Not rated or not available

Political Features

Cities

Water Features

Oceans

Streams and Canals

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Major Roads

Local Roads

MAP INFORMATION

Map Scale: 1:3,560 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

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Drainage Class

Drainage Class— Summary by Map Unit — Dona Ana County Area, New Mexico				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
Ao	Anapra clay loam	Well drained	2.8	12.8%
Bg	Belen clay	Well drained	6.9	32.2%
Ge	Glendale loam	Well drained	1.9	8.8%
Gf	Glendale clay loam	Well drained	9.9	46.2%
Totals for Area of Interest			**21.5**	**100.0%**

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Dona Ana County Area, New Mexico				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ao	Anapra clay loam	B	2.8	12.8%
Bg	Belen clay	D	6.9	32.2%
Ge	Glendale loam	B	1.9	8.8%
Gf	Glendale clay loam	B	9.9	46.2%
Totals for Area of Interest			**21.5**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

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Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

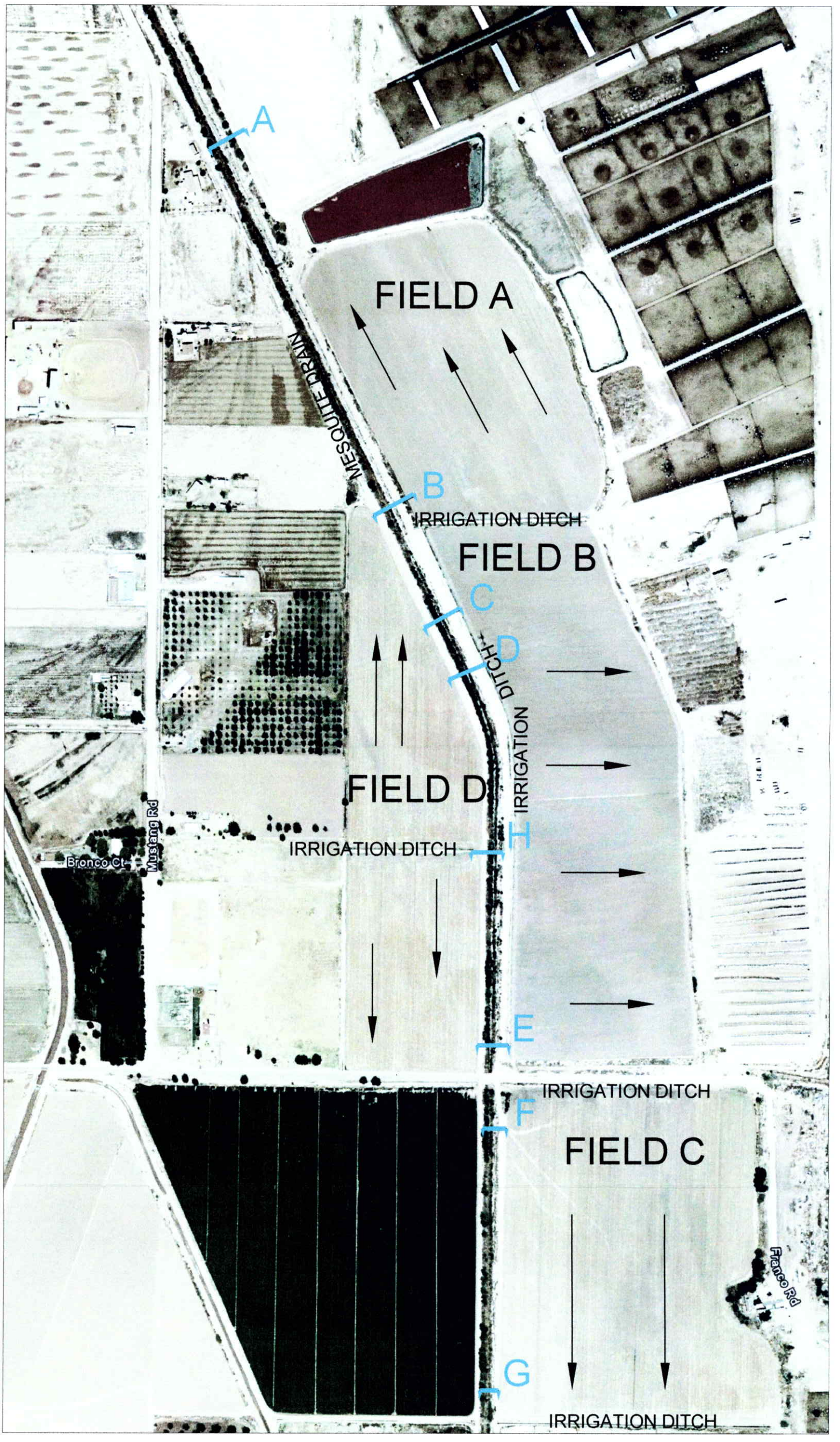
Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition



NOTE
ELEVATIONS AND DISTANCES ARE BASED FIELD OBSERVATIONS AND NOT ON A CERTIFIED SURVEY
IRRIGATION WATER FLOW DIRECTION
CROSS-SECTION LOCATION

400 200 0 400
SCALE: 1" = 400'

N

SHEET NO. 1 OF 3

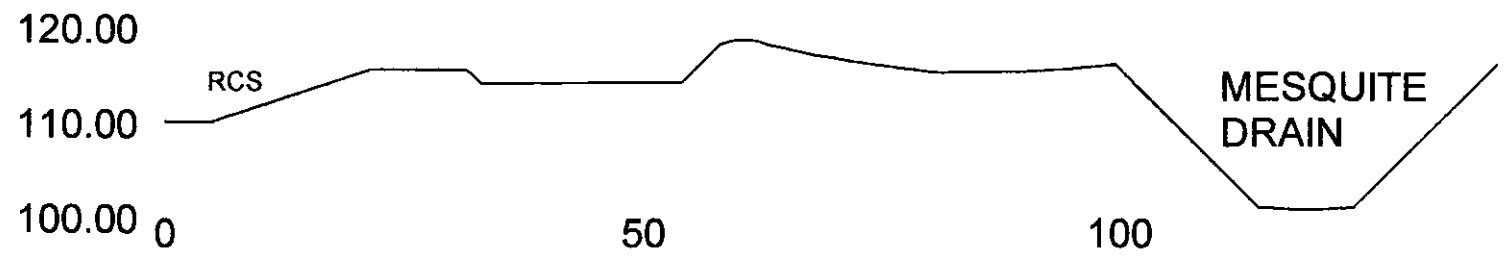
Enviro Compliance Services, Inc
Office (575) 762-9674 Fax (575) 762-3749
Providing Management Assistance For Environmental Compliance Since 1981

CROSS-SECTIONS LOCATIONS

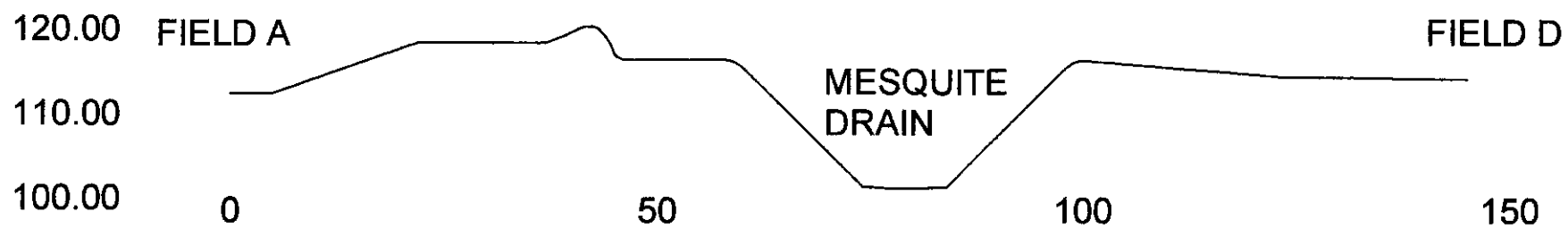
Title:
RIVER VALLEY DP-167

DATE: JULY 13, 2010
DRAWN BY: DDB
CHECK BY: CW

NOTE
ELEVATIONS AND DISTANCES ARE BASED FIELD OBSERVATIONS AND NOT ON A CERTIFIED SURVEY

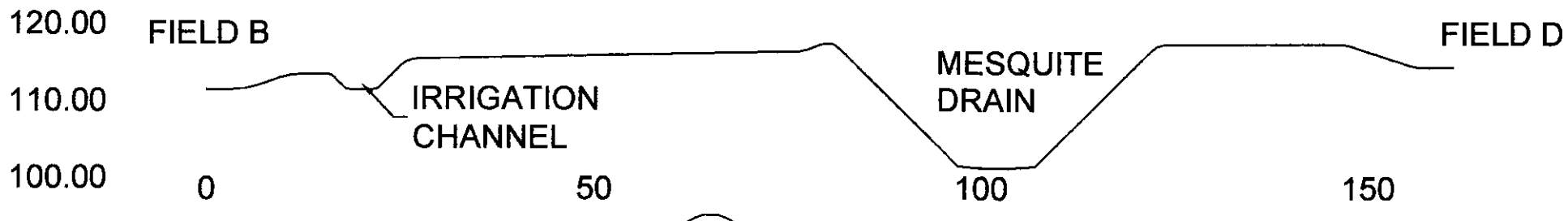


A/2 CROSS-SECTION
SCALE: 1" = 20'



B/2 CROSS-SECTION
SCALE: 1" = 20'

C/2 CROSS-SECTION
SCALE: 1" = 20'



D/2 CROSS-SECTION
SCALE: 1" = 20'

DATE
JULY 13, 2010
DRAWN BY
DDB
CHECK BY
CW

Title:
RIVER VALLEY DP-167

CROSS-SECTION

Enviro Compliance Services, Inc
Office (575) 762-9674 Fax (575) 762-3749
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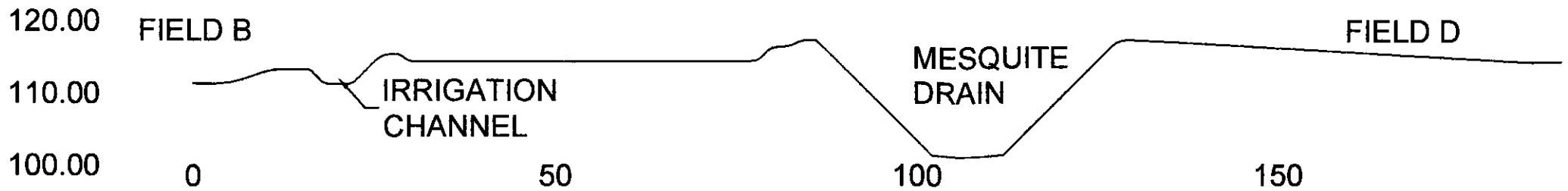
SHEET NO.
2
OF
3

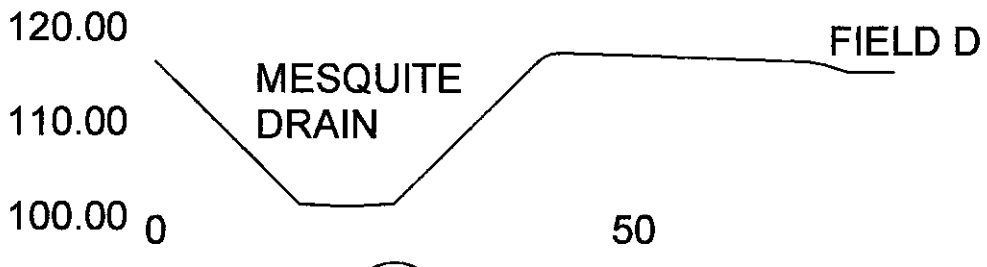
NOTE:
ELEVATIONS AND DISTANCES ARE BASED FIELD OBSERVATIONS AND NOT ON A CERTIFIED SURVEY



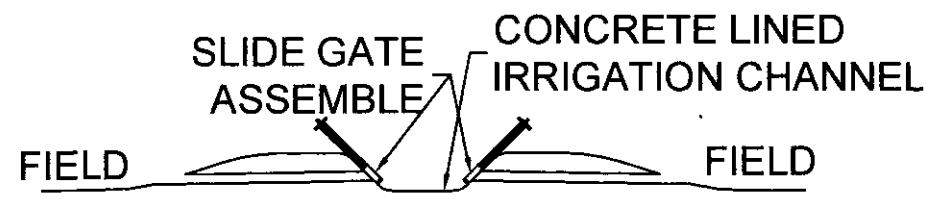
E/3 CROSS-SECTION
SCALE: 1" = 20'

F/3 CROSS-SECTION
SCALE: 1" = 20'

G/3 CROSS-SECTION
SCALE: 1" = 20'



H/3 CROSS-SECTION
SCALE: 1" = 20'



-/3 TYPICAL IRRIGATION DITCH
N.T.S.

DATE:
JULY 13, 2010
DRAWN BY:
DDB
CHECK BY:
CW

Title:
RIVER VALLEY DP-167

CROSS-SECTION

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