

REUSE OF DOCUMENTS, THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CSA ARCHITECTS AND ENGINEERS, LLP / CSA GROUP, INC. NO PART OF THIS DOCUMENT OR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CSA GROUP.
 T:\05PR17\HYDRAULIC_MODELING\EAST_REGIEAST_CENTRAL\GIS\MXD\WORKING\CIP3126002\ENERO2007\3126002HH_ADAMARIS\FIG_4A11X17_AV9_1.MXD 3/10/2006 CSA GISTEAM EFERRER AV9.1 UPDATED EVAZQUEZ MAR28/2007
 242000
 242000
 Florida

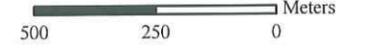
255000

Sources:
 1 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 2 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 3 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 4 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003.

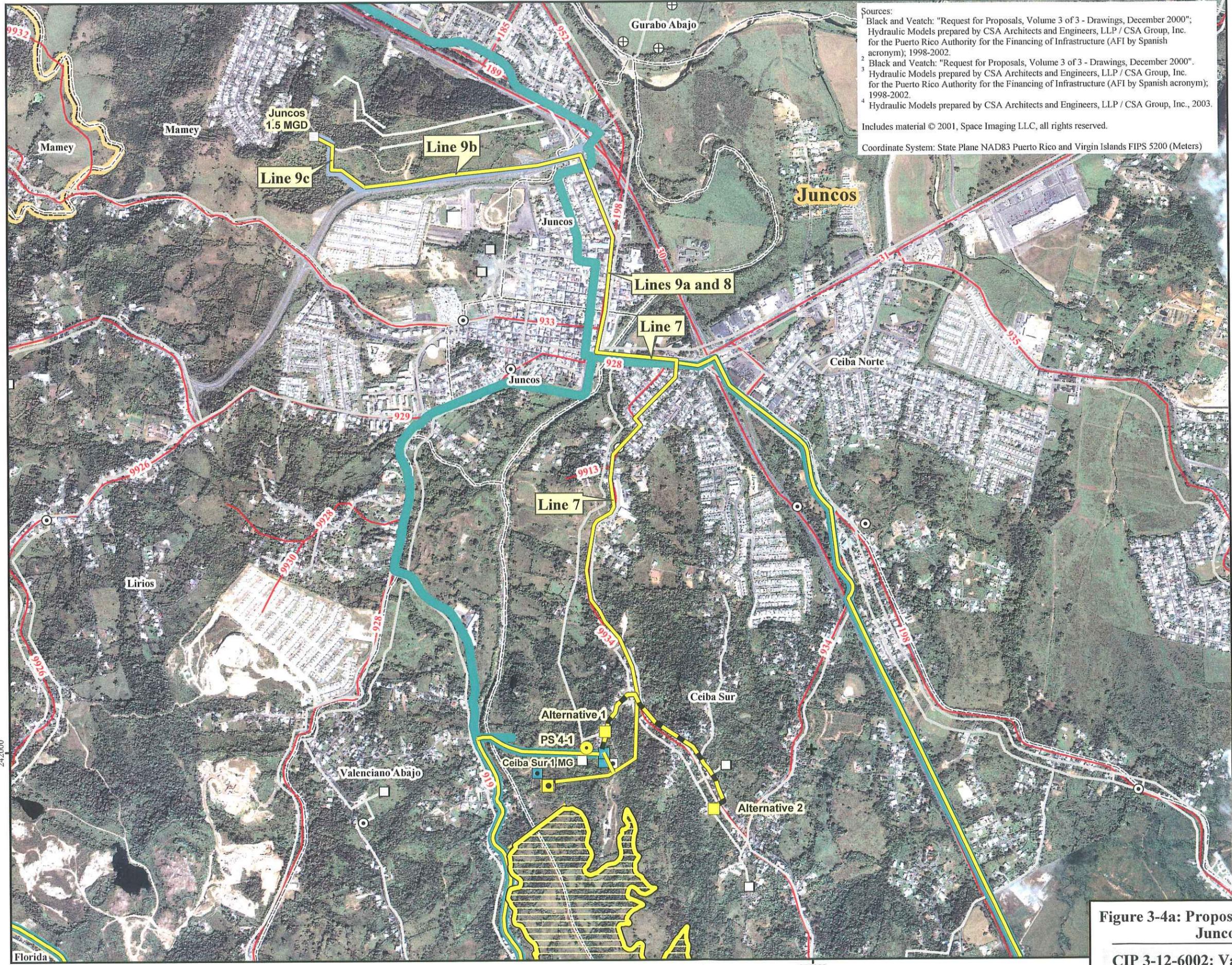
Includes material © 2001, Space Imaging LLC, all rights reserved.
 Coordinate System: State Plane NAD83 Puerto Rico and Virgin Islands FIPS 5200 (Meters)



Scale 1:15,000



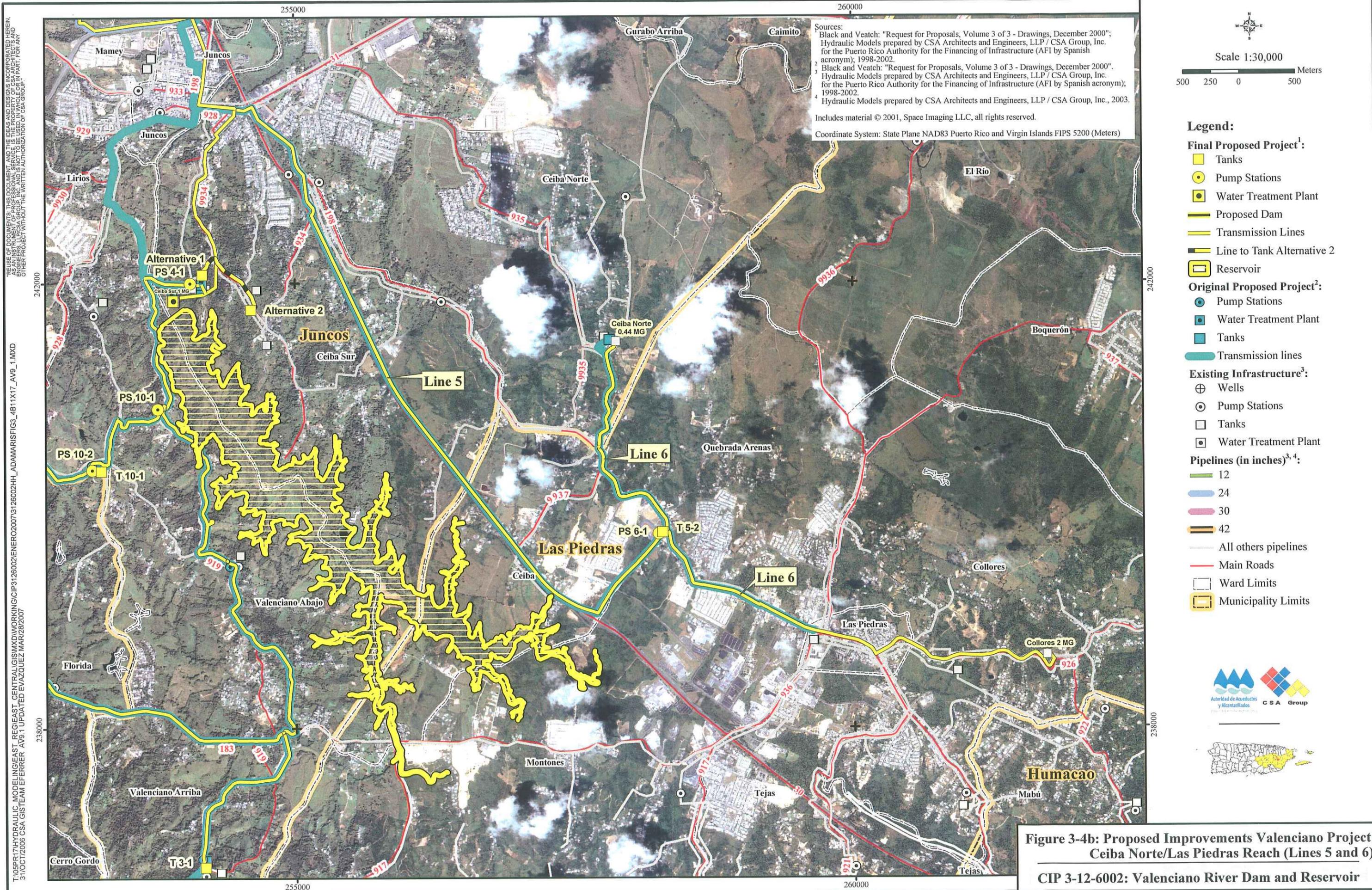
- Legend:**
- Final Proposed Project¹:**
- Tanks
 - Pump Stations
 - Water Treatment Plant
 - Proposed Dam
 - Transmission Lines
 - Line to Tank Alternative 2
 - Reservoir
- Original Proposed Project²:**
- Pump Stations
 - Water Treatment Plant
 - Tanks
 - Transmission lines
- Existing Infrastructure³:**
- Wells
 - Pump Stations
 - Tanks
 - Water Treatment Plant
- Pipelines (in inches)^{3,4}:**
- 12
 - 24
 - 30
 - 42
 - All others pipelines
 - Main Roads
 - Ward Limits
 - Municipality Limits



255000

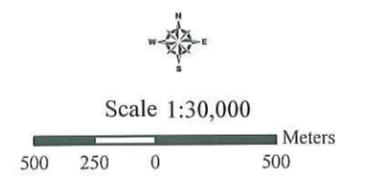
Figure 3-4a: Proposed Improvements Valenciано Project Juncos/Gurabo Reach (Lines 7, 8 and 9)
CIP 3-12-6002: Valenciано River Dam and Reservoir





T:\05PR17\HYDRAULIC_MODELING\EAST_REGIEAST_CENTRAL\GIS\MXD\WORKING\CIP3126002\ENERO2007\3126002HH_ADAMARIS\FIGS_4B11\X17_AV9_1.MXD
 31/OCT/2006 CSA GISTEAM EFERRER AV9.1 UPDATED EVAZQUEZ MAR/29/2007
 REUSE OF DOCUMENTS, THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INVESTMENT IN THE PUBLIC GOOD OF THE PEOPLE OF PUERTO RICO. IT IS TO BE USED FOR ANY AND ALL OTHER PROJECTS WITHOUT THE WRITTEN AUTHORIZATION OF CSA GROUP.

Sources:
 1 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 2 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 3 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 4 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003.
 Includes material © 2001, Space Imaging LLC, all rights reserved.
 Coordinate System: State Plane NAD83 Puerto Rico and Virgin Islands FIPS 5200 (Meters)



- Legend:**
- Final Proposed Project¹:**
- Tanks
 - Pump Stations
 - Water Treatment Plant
 - Proposed Dam
 - Transmission Lines
 - Line to Tank Alternative 2
 - Reservoir
- Original Proposed Project²:**
- Pump Stations
 - Water Treatment Plant
 - Tanks
 - Transmission lines
- Existing Infrastructure³:**
- Wells
 - Pump Stations
 - Tanks
 - Water Treatment Plant
- Pipelines (in inches)^{3,4}:**
- 12
 - 24
 - 30
 - 42
 - All others pipelines
- Main Roads
 Ward Limits
 Municipality Limits

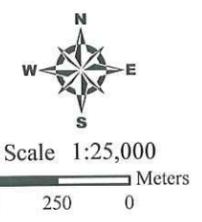


Figure 3-4b: Proposed Improvements Valenciано Project
Ceiba Norte/Las Piedras Reach (Lines 5 and 6)
CIP 3-12-6002: Valenciано River Dam and Reservoir

REUSE OF DOCUMENT: THIS DOCUMENT IS THE PROPERTY OF CSA ARCHITECTS AND ENGINEERS, LLP/CSA GROUP, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CSA GROUP.

T:\05PR17\HYDRAULIC_MODELING\EAST_CENTRAL\GIS\WORKING\CIP3126002\ENERO2007\3126002HH_ADAMARIS\IG3_4C11X17_AV9_1.MXD 31/OCT/2006 CSA GISTEAM EFERRER AV9.1 UPDATED EVAZQUEZ MAR/28/07

Sources:
 1. Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 2. Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 3. Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 4. Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003.
 Includes material © 2001, Space Imaging LLC, all rights reserved.
 Coordinate System: State Plane NAD83 Puerto Rico and Virgin Islands FIPS 5200 (Meters)



- Legend:**
- Final Proposed Project¹:**
- Tanks
 - Pump Stations
 - Water Treatment Plant
 - Proposed Dam
 - Transmission Lines
 - Line to Tank Alternative 2
 - Reservoir
- Original Proposed Project²:**
- Pump Stations
 - Water Treatment Plant
 - Tanks
 - Transmission lines
- Existing Infrastructure³:**
- Wells
 - Pump Stations
 - Tanks
 - Water Treatment Plant
- Pipelines (in inches)^{3,4}:**
- 12
 - 24
 - 30
 - 42
 - All others pipelines
- Other Symbols:**
- Main Roads
 - Ward Limits
 - Municipality Limits

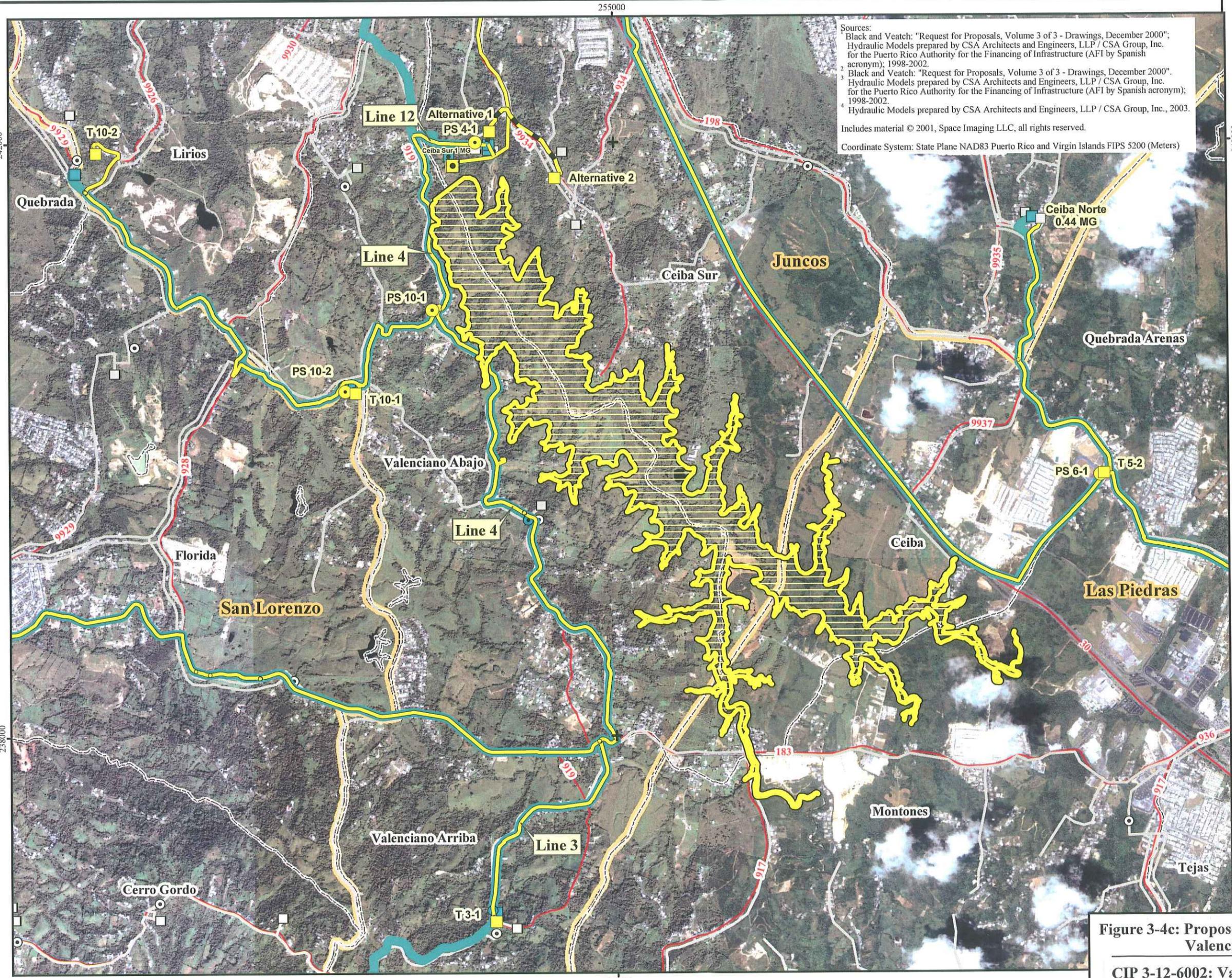
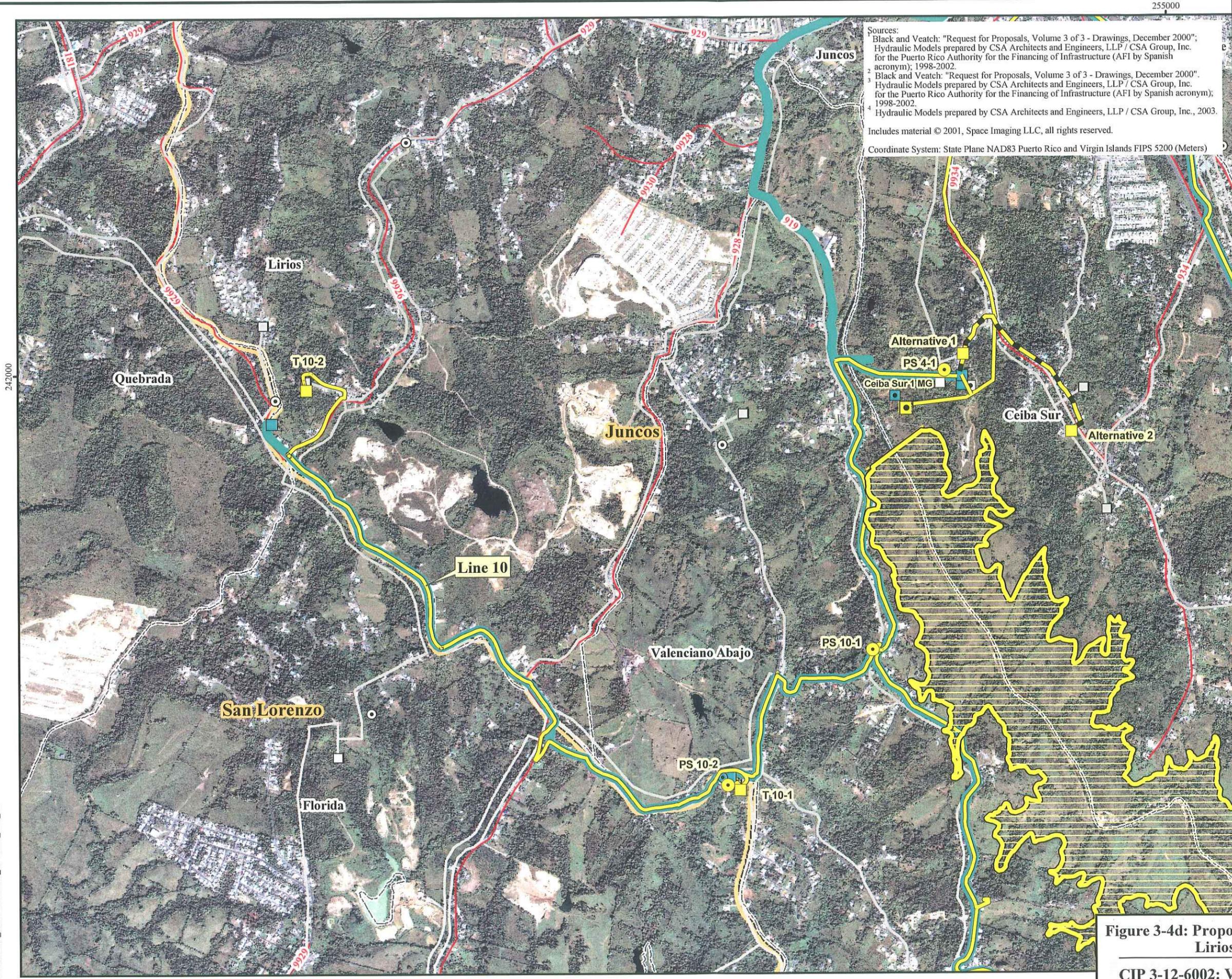


Figure 3-4c: Proposed Improvements Valenciano Project Valenciano Reach (Lines 12, 4 and 3)
CIP 3-12-6002: Valenciano River Dam and Reservoir

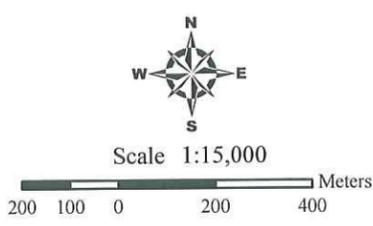


REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE THE PROPERTY OF CSA GROUP, INC. AND SHALL NOT BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CSA GROUP.

T:\059R17\HYDRAULIC_MODELING\EAST_REGIEAST_CENTRAL\GIS\MXD\WORKING\CIP3126002\ENERO2007\3126002HH_ADAMARIS\FIG3_4D11\X17_AV9_1.MXD 31/OCT/2006 CSA GISTEAM EFERRER_AV9.1 UPDATED EVAZQUEZ MAR/28/07



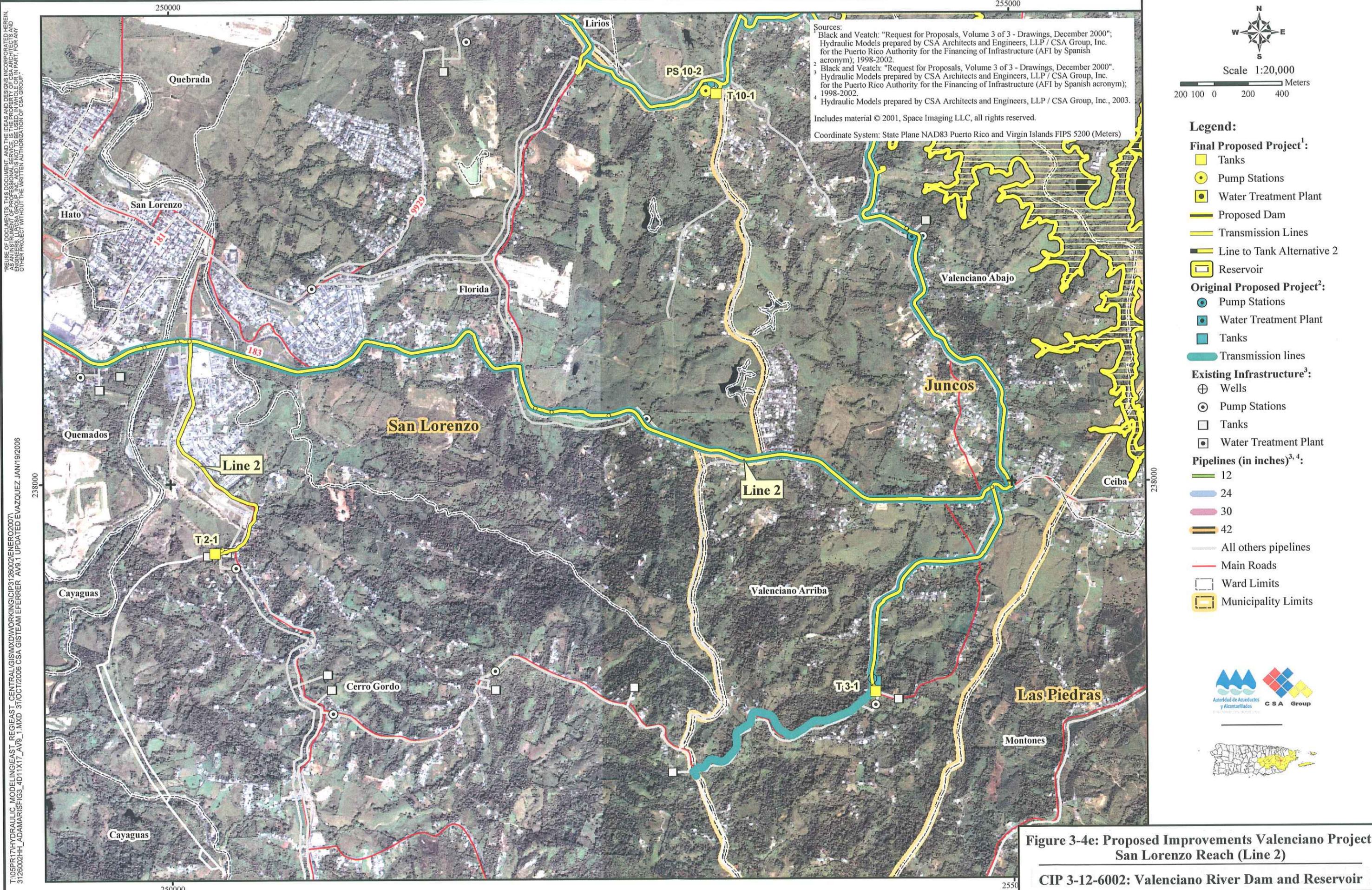
Sources:
 1 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 2 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 4 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003.
 Includes material © 2001, Space Imaging LLC, all rights reserved.
 Coordinate System: State Plane NAD83 Puerto Rico and Virgin Islands FIPS 5200 (Meters)



- Legend:**
- Final Proposed Project¹:**
- Tanks
 - Pump Stations
 - Water Treatment Plant
 - Proposed Dam
 - Transmission Lines
 - Line to Tank Alternative 2
 - ▭ Reservoir
- Original Proposed Project²:**
- Pump Stations
 - Water Treatment Plant
 - Tanks
 - Transmission lines
- Existing Infrastructure³:**
- ⊕ Wells
 - Pump Stations
 - Tanks
 - Water Treatment Plant
- Pipelines (in inches)^{3,4}:**
- 12
 - 24
 - 30
 - 42
 - All others pipelines
- Main Roads
 - Ward Limits
 - ▭ Municipality Limits

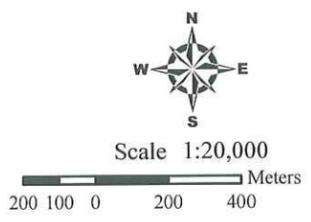


Figure 3-4d: Proposed Improvements Valenciано Project Lirios Florida Reach (Line 10)
CIP 3-12-6002: Valenciано River Dam and Reservoir



REUSE OF DOCUMENTS, THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CSA ARCHITECTS AND ENGINEERS, LLP / CSA GROUP. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AUTHORIZATION OF CSA GROUP.
 T:\05PR17\HYDRAULIC_MODELING\EAST_REGIEAST_CENTRAL\GIS\WORKING\CIP3126002\ENERO2007\3126002HH_ADAMARIS\FIG3_4D11X17_AV9_1.MXD 31/OCT/2006 CSA GISTEAM EFERRER AV9.1 UPDATED EVAZQUEZ JAN/19/2006

Sources:
 1. Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 2. Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 3. Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 4. Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003.
 Includes material © 2001, Space Imaging LLC, all rights reserved.
 Coordinate System: State Plane NAD83 Puerto Rico and Virgin Islands FIPS 5200 (Meters)



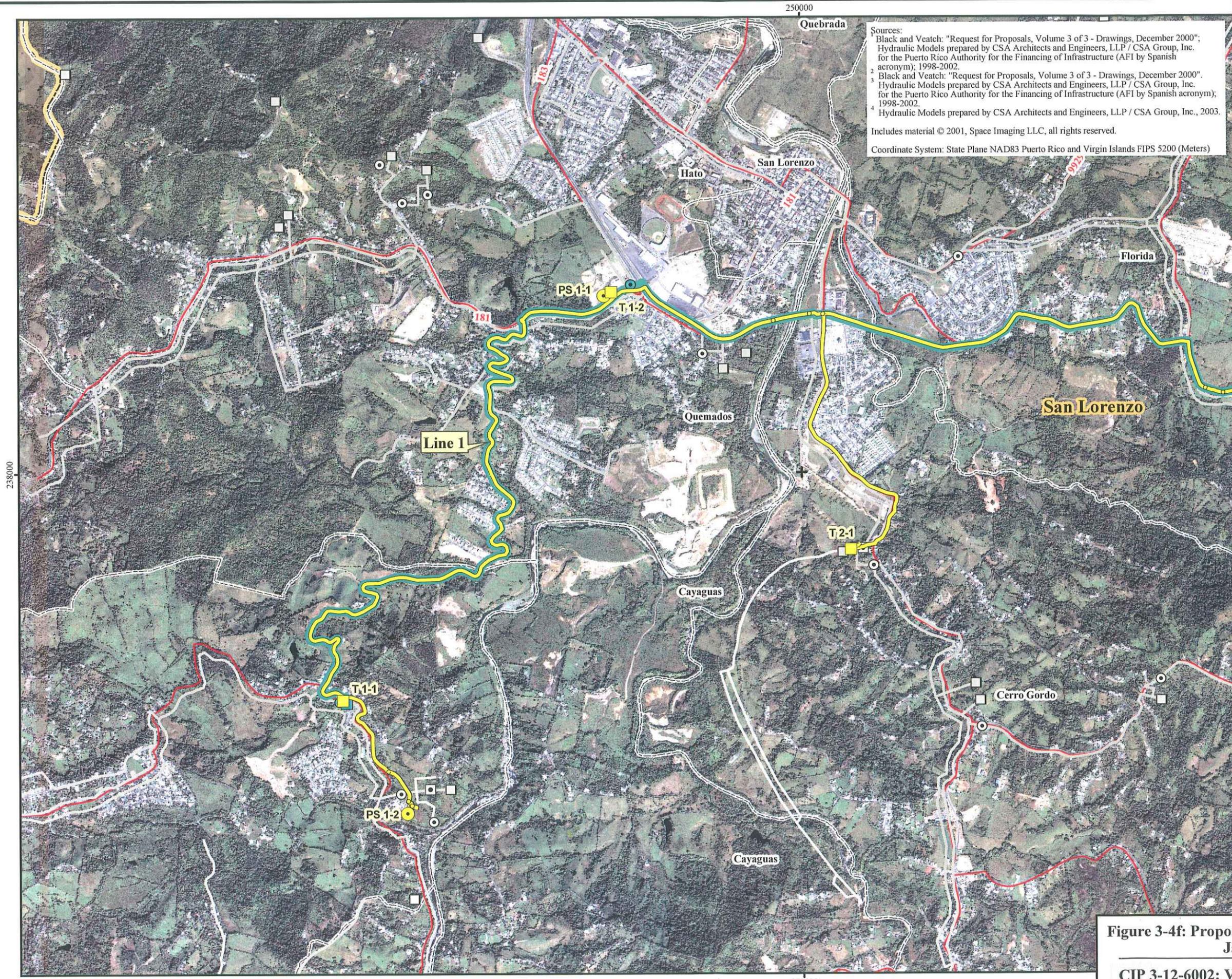
- Legend:**
- Final Proposed Project¹:**
- Tanks
 - Pump Stations
 - Water Treatment Plant
 - Proposed Dam
 - Transmission Lines
 - Line to Tank Alternative 2
 - Reservoir
- Original Proposed Project²:**
- Pump Stations
 - Water Treatment Plant
 - Tanks
 - Transmission lines
- Existing Infrastructure³:**
- Wells
 - Pump Stations
 - Tanks
 - Water Treatment Plant
- Pipelines (in inches)^{3,4}:**
- 12
 - 24
 - 30
 - 42
 - All others pipelines
 - Main Roads
 - Ward Limits
 - Municipality Limits



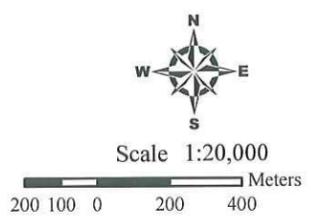
Figure 3-4e: Proposed Improvements Valenciано Project San Lorenzo Reach (Line 2)
CIP 3-12-6002: Valenciано River Dam and Reservoir

REUSE OF DOCUMENTS, THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE THE PROPERTY OF CSA GROUP, INC. AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CSA GROUP.

T:\05PR17\HYDRAULIC_MODELING\EAST_REGIEAST_CENTRAL\GIS\MXD\WORKING\CIP3126002\ENERG020071_3126002\HH_ADAMARIS\FIG3_4F11X17_AV8_1.MXD 31/OCT/2006 CSA GIS TEAM EFERRER AVS.1 UPDATED EVAZQUEZ MAR/28/07



Sources:
 1 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 2 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 3 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.
 4 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003.
 Includes material © 2001, Space Imaging LLC, all rights reserved.
 Coordinate System: State Plane NAD83 Puerto Rico and Virgin Islands FIPS 5200 (Meters)



- Legend:**
- Final Proposed Project¹:**
- Tanks
 - Pump Stations
 - Water Treatment Plant
 - Proposed Dam
 - Transmission Lines
 - Line to Tank Alternative 2
 - Reservoir
- Original Proposed Project²:**
- Pump Stations
 - Water Treatment Plant
 - Tanks
 - Transmission lines
- Existing Infrastructure³:**
- ⊕ Wells
 - Pump Stations
 - Tanks
 - Water Treatment Plant
- Pipelines (in inches)^{3,4}:**
- 12
 - 24
 - 30
 - 42
 - All others pipelines
- Main Roads
- Ward Limits
- Municipality Limits



Figure 3-4f: Proposed Improvements Valenciano Project Jagual Reach (Line 1)
CIP 3-12-6002: Valenciano River Dam and Reservoir

Figure 3-5
Conceptual Hydraulic Profile from Valenciano WTP

