
APPENDIX I – REAL ESTATE PLAN
for
RIO GUAYANILLA, GUAYANILLA, PR
2018 SUPPLEMENTAL APPROPRIATIONS
FLOOD RISK MANAGEMENT STUDY



March 2020



**US Army Corps
of Engineers®**
Chicago District

Real Estate Summary

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Section 1. The Real Estate Report

1.1 Statement of Purpose

This report is tentative in nature, focuses on the Recommended Plan (Alternative 3), and is to be used for planning purposes only. At the request of the project manager, Alternative 6 has also been included for information purposes only in this Appendix. There may be modifications to the plans that occur during Pre-construction, Engineering and Design (PED) phase, thus changing the final acquisition area(s) and/or administrative and land cost. The Real Estate Appendix is intended to support the Detailed Project Report and Environmental Assessment for the Rio Guayanilla, Guayanilla, Puerto Rico, Sec 722, Flood Risk Management project. The author of this report is familiar with the project area. The Puerto Rico Department of Natural and Environmental Resources (DNER) will be the non-Federal sponsor for the project. Date of this report is March 2020.

1.2 Study Authority

This study is authorized under Water Resources Development Act of 1986 (P.L. 99-662), Sec 722.

SEC. 722. Guayanilla River Basin, Puerto Rico.

(a) The Secretary shall conduct a feasibility study on providing flood protection in the Guayanilla River Basin, Puerto Rico.

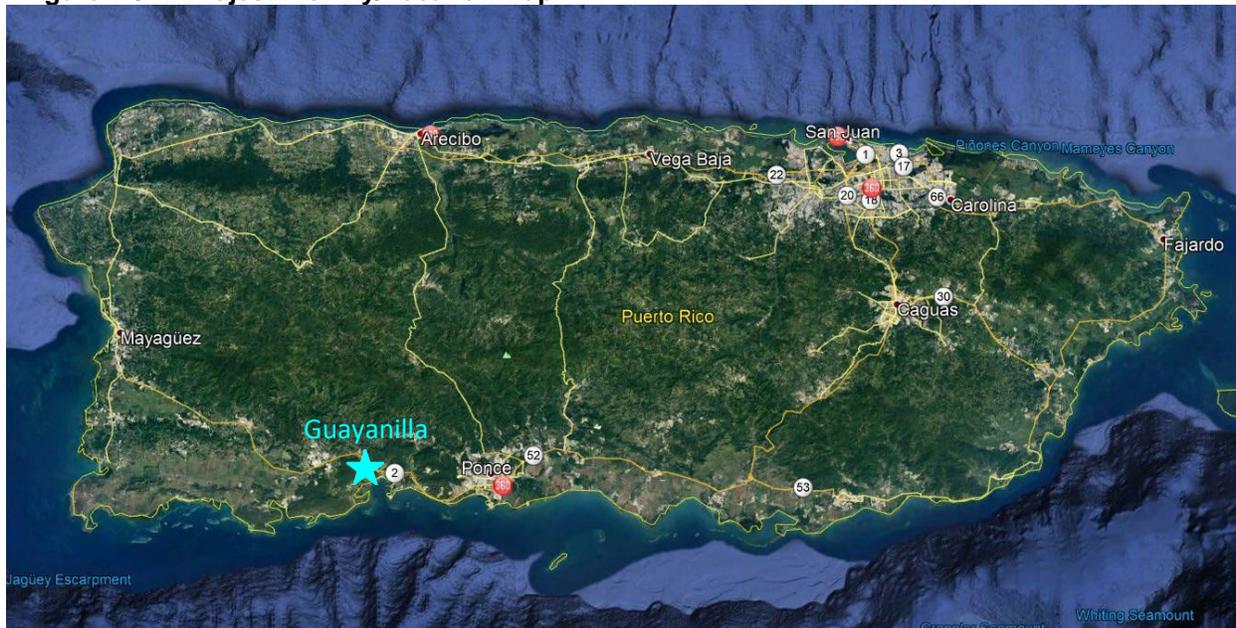
(b) Not later than two years after the date of the enactment of this Act, the Secretary shall submit to Congress a report on the results of such study together with such recommendations as the Secretary determines to be appropriate.

Funding for the Study is provided by the Bipartisan Budget Act of 2018 (Public Law 115-123), Division B, Subdivision 1, Title IV.

1.3 Project Location

The Rio Guayanilla project area is comprised of the Guayanilla coastal flood plain located about 16 kilometers west of the city of Ponce. Within the flood plain lies the Town of Guayanilla with an urban population of 4,000 as per 2010 Census, the Playa de Guayanilla sector and other rural communities. The river passes directly through the middle of Town causing a serious flood problem. There are three bridges over the river within the town limits. Damages associated with flooding have been reported by the Municipality ten times in the last twenty-five years. (See Figure 1.3-1. Project Vicinity/Location Map).

Figure 1.3-1. Project Vicinity/Location Map



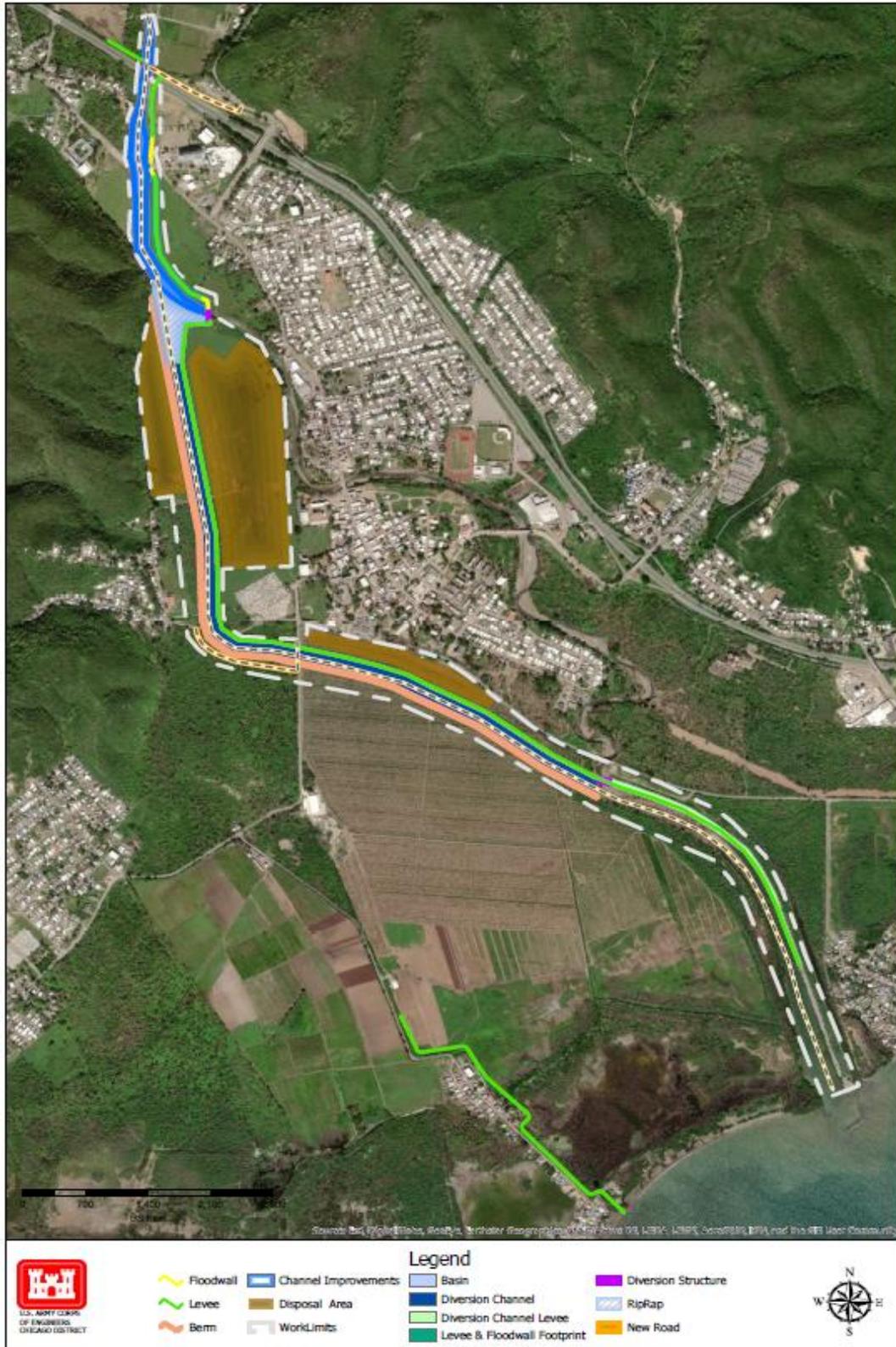
1.4 Project Description

The goal of this project is to improve conditions within the Guayanilla coastal floodplain to reduce the depth, duration, and likelihood of flooding at residential, commercial structures and important infrastructure at the same time to reduce flood impacts to public facilities and access routes required for emergency services at the Town of Guayanilla and maintain or improve environmental, ecosystem, and aesthetic conditions of the Rio Guayanilla river in support of community cohesion, public safety, and flood risk management.

The Detailed Project Report dated March 2020 has looked at six alternatives for reducing flood risks that included various combinations of levees, diversions, channel improvements, and reconstruction of bridges.

Alternative # 3, Diversion Channel South with single line protection is the Recommended Plan. This alternative would construct an engineered diversion channel just south of PR-127. A diversion structure will be placed across the river channel to split flows, sending all flood waters to the diversion channel, but keeping almost bank-full flows to maintain the ephemeral riverine ecology of the Rio Guayanilla. This alternative would have levees on the town side or east of the channel (Figure 1.4-1).

Figure 1.4-1 – Alternative #3 Map



1.5 Real Estate Requirements

This project will require the acquisition of permanent real estate rights for 22 tracts of land, consisting of approximately 115.29 acres, and acquisition of temporary real estate rights for seven tracts of land, consisting of approximately 75.86 acres. The estates required will consist of perpetual Flood Protection Levee Easements (38.79 acres), Channel Improvement Easements (75.34 acres), Road Easement (1.16 acres) and temporary Work Area Easements (75.76 acres) for a five-year period. Acquisition of six acres will be required for mitigation. The Non-Federal Sponsor is responsible for the acquisition of the LERRDS however, there is a good chance that the Federal Government will be requested to acquire the lands required on their behalf. (See table 1.5-1 for details on real estate requirements).

Table 1.5-1. Real Estate Requirements

Parcel ID	Channel Improvement Easement Estates	Flood Protection Levee Easement Estates	Temporary Work Easement Estates	Road Easement Estates
386-013-085-03	3.08	4.12	23.05	0.00
362-093-248-01	0.26	0.14	0.00	0.00
386-013-085-04	0.00	0.17	29.32	0.00
362-000-001-01	0.00	0.00	0.00	0.00
386-013-085-01	0.00	0.00	0.00	0.00
386-013-085-02	15.32	2.03	8.50	0.00
386-000-001-03	18.16	6.21	3.46	0.61
362-000-006-91	0.22	0.00	0.00	0.00
362-092-244-49	0.07	0.10	0.00	0.00
362-000-006-97	2.40	0.00	0.00	0.00
362-092-244-50	1.39	0.00	0.00	0.00
362-092-244-49	0.07	0.10	0.00	0.00
386-003-003-14	0.73	1.02	0.00	0.00
362-003-007-47	2.52	3.29	0.00	0.00
386-003-003-09	0.00	0.11	0.00	0.00
362-000-007-47	1.88	0.00	0.00	0.00
362-000-007-35	0.48	0.00	0.00	0.00
362-000-007-41	0.19	0.00	0.00	0.00
386-000-008-08	27.70	19.66	11.53	0.00
362-000-007-38	0.04	0.00	0.00	0.55
362-000-007-32	0.83	1.84	0.00	0.00
Total Acres	76.58	39.67	75.87	1.16

Residential Fee Estates	
Parcel ID	Estimated Fee Estate Value
386-003-003-10	\$173,000
362-000-007-47 (5 single family residences on one parcel)	\$518,000
362-082-002-16	\$104,000
362-082-002-15	\$104,000
362-082-002-14	\$104,000
Total Estimated Buyout Value	\$1,003,000.00

Fee Acquisition for Mitigation	Estimated Fee Estate Acres	Estimated Fee Estate Cost
386-000-008-08	6.0	\$34,500.00

The proposed mitigations land will need approximately 6 acres in fee acquisition.

Road relocation will require 1.16 of perpetual road easement.

The Real Estate Maps in Exhibit C will show the complete real estate requirements anticipated for this project.

1.6 Utility/Facility Relocation

The project area has a number of utilities within the project footprint. These utilities are sewer, water, electrical and communications lines, both above and below ground (table 1.6-1). Temporary relocations will be necessary during construction followed by new permanent overhead poles and lines as well as horizontally directionally drilled lines where feasible. Pipelines located at the two bridges to be relocated will be supported by the bridge structures. The intention is to make every attempt to avoid having to relocate as many facilities as possible. It is expected that most of the utilities will be move down within the same alignment eliminating the need for relocation.

The utilities will require a final attorney's opinions of compensability prior to the Government making a final determination of the relocations necessary. A preliminary attorney's opinion of compensability has been completed. As such, the PDT provided preliminary rough cost estimates associated with the necessary franchise utilities to include in the overall project cost. The cost of the utility relocations is estimated at \$1,330,000 (including a contingency of 35%).

Table 1.6-1. Utility Facility Relocation

Utility	Location
Northern Zone - North of PR 127 Along Calle Luis Munoz Rivera	
10" PVC Sanitary Sewer Changes to 12" PVC farther South	Along Calle Luis Munoz Rivera Road from Highway 2 to south PR 127
2" Metal Water line Underground	Along Calle Luis Munoz Rivera Road just North of PR 127
Overhead Communication	Along Calle Luis Munoz Rivera Road North of PR 127
6" Metal Water line Underground	Down the middle of Calle Luis Munoz Rivera Road just North of PR 127 through the intersection of PR 127
Primary Overhead Electrical/Telephone	Along Calle Luis Munoz Rivera Road From Highway 2 to south of PR127
8" Sanitary Sewer	Calle Luis Munoz Rivera Road just north of PR 127 coming from the east
54" Storm Sewer	Calle Luis Munoz Rivera Road just north of PR 127 coming from the east
Underground Electrical to Light Pole	Calle Luis Munoz Rivera Road just north of PR 127 coming from the east
Overhead Primary Electrical	Calle Luis Munoz Rivera Road just north of PR 127 coming from the east
6" Metal Water line Underground	Running Across the channel just north of PR 127
Overhead Communication	Running Across the channel just north of PR 127 & crisses OR 127 on east side of channel and runs south
Overhead Electrical	Running Across the channel just north of PR 127
Overhead Telephone	Running Across the channel just north of PR 127
Overhead Primary Electrical	Running Across the channel just north of PR 127 & crosses PR 127 on east side of channel and runs south
4" Underground Communication	Running Across the channel just south of PR 127 and runs south
Central Zone - Vertedero Road south of cemetery to be re-aligned	
Unknown Underground Utility	Running Along Vertedero street
Overhead Communication Line	Running Along Vertedero street
Overhead Electrical and Telephone	Running Along Vertedero street on south side of street and crossing to the north side
(3) Overhead Primary Electrical	South of Vertedero street
Southern Zone - Running parallel along PR 335 (Cam Boca) and adjacent to proposed bridge	
6" Metal Sanitary Sewer	Running parallel to State Road PR-335 on west side
6" PVC Water line	Running parallel to State Road PR-335 on west side
4" Underground Communication	Running parallel to State Road PR-335 on west side
Overhead Telephone	Running parallel to State Road PR-335 on west side

There are 4 facility relocations in addition to the aforementioned utility relocations required due to the construction of the project, and as part of the project improvements. One bridge relocation is the PR 127 Bridge which will remain in place but altered with new span and road widening as a conveyance improvement to overall flow and part of the project plan. The second is the Calle 3 road that will be covered by levees and moved to the North of PR-2 to maintain the connection into town. Finally, PR 335 will be converted to a bridge to span the diversion channel and connected to a new segment of Cil Vertedero road that will be relocated just south of its current location. It will run along the western end of the new channel and tie back to provide access to the Peidras Blancas neighborhood. The road relocations have been estimated at \$4.43 million, and both bridge relocations are estimated at \$13.997 million total with contingency. The road and bridge relocations are required by the project and not a betterment. As of the study date, the local Department of Transportation may work for the NFS to relocate the road and bridges or the NFS may request Corps assistance for these relocation projects.

"ANY CONCLUSION OR CATEGORIZATION CONTAINED IN THIS REAL ESTATE PLAN, OR ELSEWHERE IN THIS PROJECT REPORT, THAT AN ITEM IS A UTILITY OR FACILITY RELOCATION TO BE PERFORMED BY THE NON-FEDERAL SPONSOR AS PART OF ITS LERRD RESPONSIBILITIES IS PRELIMINARY ONLY. THE GOVERNMENT WILL MAKE A FINAL DETERMINATION OF THE RELOCATIONS NECESSARY FOR THE CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PROJECT AFTER FURTHER ANALYSIS AND COMPLETION AND APPROVAL OF FINAL ATTORNEY'S OPINIONS OF COMPENSABILITY FOR EACH OF THE IMPACTED UTILITIES AND FACILITIES."

1.7 Existing Federal Projects

There are no existing Federal projects within the project area.

1.8 Environmental Impacts

The changes due to construction of this project are not considered to have any significant environmental impacts within the area. Environmental Impacts are addressed in detail within the main report.

1.9 Project Sponsor Responsibilities and Capabilities

The Puerto Rico Department of Natural and Environmental Resources will be the non-Federal Project Sponsor (NFS). The NFS has the responsibility to furnish all real estate interests required for the Project. The NFS shall accomplish all alterations and relocations of facilities, structures and improvements determined by the government to be necessary for construction of the Project. The sponsor will have operation and maintenance responsibility for the project after construction is completed.

Title to any acquired real estate will be retained by the NFS and will not be conveyed to the United States Government. Prior to advertisement of any construction contract, the NFS shall furnish to the government an Authorization for Entry for Construction (Exhibit "A" to the Real Estate Appendix) to all lands, easements and rights-of-way, as necessary. The NFS will also furnish to the government evidence supporting their legal authority to grant rights-of-way to such lands. The NFS has participated in a teleconference with members of the Project Development Team to ensure that the

Sponsor Capabilities Assessment was reviewed and agreed upon with a follow-up email stating their concurrence. The Sponsor Capability Assessment is summarized and documented in the attached.

This project was funded through the Bipartisan Budget Act of 2018 (supplemental hurricane funding) meaning if funds remain available all LERRDS acquisition work of all required real estate will be reimbursed to the NFS. If funding from this act is no longer available, the non-federal sponsor must provide all lands, easements, rights-of-way, relocations, and disposal areas (LERRDS), with the costs rolled into the project and credited accordingly.

The NFS is a sponsor for a number of ongoing projects with the Corps of Engineers and understands the risks of acquiring lands prior to the signature of the Project Partnership Agreement. The NFS has been cautioned that they should not acquire lands required for the project prior to execution of the PPA and should the NFS proceed with acquisition of lands prior to execution of the PPA, it is at the risk of not receiving credit or reimbursement for any costs incurred in the connection with the acquisition process should the PPA not be signed. There is also risk in acquiring lands either not needed for the project or not acquired in compliance with requirements for crediting purposes in accordance with 49 CFR Part 24, dated March 2, 1989.

1.10 Government Owned Property

There is only one tract within the project footprint that is Government owned. Lot 386-013-085-03-000 is vested in the United States of America but it is unclear which agency holds title to this tract. There are no FEMA owned lands within the project footprint.

1.11 Historical Significance

Ground disturbing activities of this project have the potential to effect cultural resources and historic properties within the project area. The project would also cause visual effects to a portion of the valley's natural riverine vista. Historic properties located within the proposed channel have the potential to be adversely affected by a change from the current rural aesthetic. USACE, in consultation with the Puerto Rico State Historical Preservation Office (SHPO), has contracted a cultural resources survey of undisturbed portions of the proposed project area. If historic properties are identified as a result of the survey, USACE will consult with SHPO to avoid, minimize, or mitigate adverse effect. A determination of no adverse effect or a Memorandum of Agreement to mitigate adverse effects will be executed prior to submittal of a final EA. Historical and cultural significance is addressed in more detail in the main report.

1.12 Mineral Rights

There are karst mines located near the project footprint but there are no known mineral activities within the scope of the proposed project.

1.13 Hazardous, Toxic, and Radioactive Waste (HTRW)

No significant or long-term effects to the HTRW condition of the project area are anticipated. Although there is potential for the project to encounter hazardous substances, the risk of exposing existing soil and groundwater contamination in the

project area has been mitigated by completing a HTRW Phase I Environmental Site Assessment. All material excavated for the diversion channel (predominantly gravel and sand) is proposed to be re-used or disposed of on portions of the project site. If the material would need to be taken off-site, or re-used as a salable commodity for potential contractors or by the municipalities for landfill cover, additional testing would be required to determine if the material contains hazardous substances for management in accordance with applicable laws and regulations of the relevant regulatory agencies. The project site was not listed in any of the databases searched by Environmental Resources Data, Inc. There were a number of sites within close proximity of the project site however there is no indication that contaminants have migrated to or impacted the project area. A more detailed report can be found in Appendix J of the main report.

1.14 Navigation Servitude

The Rio Guayanilla River is not a designated navigable river; therefore, Navigation Servitude is not applicable to this project.

1.15 Zoning Ordinances

Zoning ordinances are not of issue with this project. Application or enactment of zoning ordinances is not to be used in lieu of acquisition.

1.16 Induced Flooding

There will be no induced flooding anticipated by the construction or the operation and maintenance of the project.

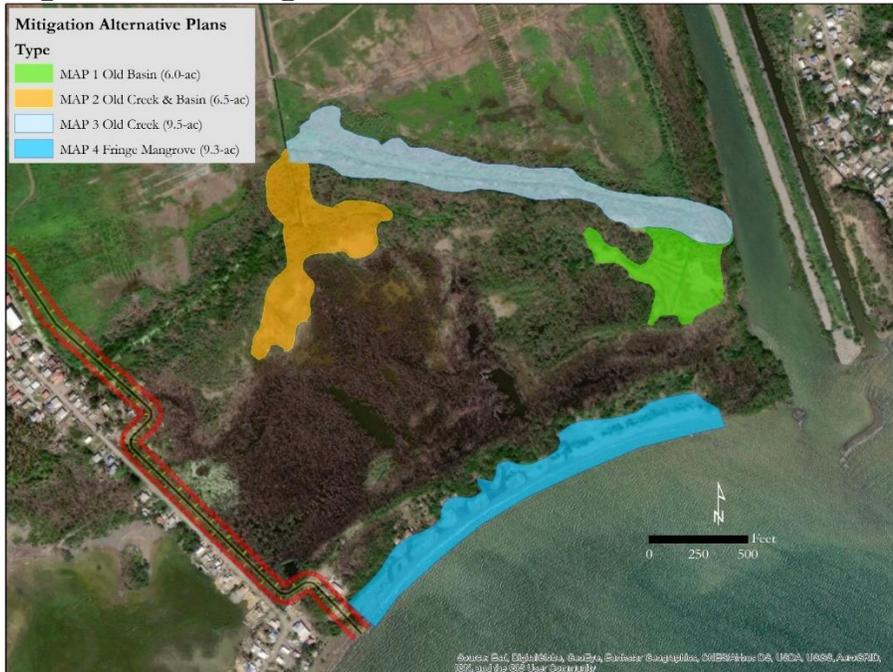
1.17 Mitigation

Mitigation is anticipated for removal of 5.8 acres of existing Black Mangrove swamp. The plan is to replace in-kind 5.8 acres of the mangrove swamp. There are four potential mitigation alternatives that the team is reviewing. The alternative chosen (alternative 1) to complete this replacement will restore about 6.0 acres within the greater mangrove coastal zone by manipulating the hydrogeomorphic setting (See Figure 1.17-1). Based on aerial observations and coordination with the local USFWS personnel, this formerly Black Mangrove swamp area was ditched and filled in for agricultural uses. This type of alternative would replicate how mangrove swamp would look like within a basin, exemplifying a patchwork of open water, mangrove and associated wet community types. Table 1.17-1 shows the cost estimate for lands need to mitigate the mangrove swamp.

Table 1.17-1. Mitigation Lands Cost Estimate

Alternative	Acres	Cost per Acre	Fee Value	Incremental Costs	Total Estimated Cost
1	6	\$5,000	\$30,000	15%	\$34,500

Figure 1.17-1. Mitigation Alternatives



1.18 Public Law 91-646, Relocation Assistance Benefits

Public Law 91-646, Uniform Relocation Assistance provides entitlement for various payments associated with federal participation in acquisition of real property. Title II makes provision for relocation expenses for displaced persons, and Title III provides for reimbursement of certain expenses incidental to transfer of property. There are approximately 9 residential structures associated with this project that will require relocation assistance benefits under Public Law 91-646. The combined estimated market value for these residential structures is \$870,000. The relocation assistance cost is estimated to be \$225,000 (\$22,500 per relocation for the maximum replacement housing payment and \$2,500 per relocation for moving expenses). There is replacement housing available, and there are no concerns about the availability of decent, safe and sanitary residences. There no business relocations are anticipated for this project.

1.19 Attitude of Property Owners

The project is not expected to be controversial. Flooding has been a long-term concern of residents and this project is supported by the public.

1.20 Acquisition Schedule

The non-federal sponsor, Project Manager, and Real Estate representative will formulate a detailed schedule upon project approval and prior to the signing of the PPA. The schedule will be developed to allow adequate time to obtain real estate and to meet the schedule set for advertisement for construction. It is anticipated that acquisition of lands required for the project will take up to 18 months to complete. The time will be included in the project schedule to allow for adequate time to acquire. All facility relocations pertaining to buy-outs (acquisition), and relocation will be done by the NFS as part of LERRDS implementation prior to construction, and demolition and removal will be included in the construction schedule.

1.21 Estates for Proposed Project

The project will require Real Estate interests acquisition of approximately 197.31 acres.

CHANNEL IMPROVEMENT

A perpetual and assignable right and easement to construct, operate, and maintain channel improvement works on, over and across (the land described in Schedule A) (Tracts Nos. _____, _____ and _____) for the purposes as authorized by the Act of Congress approved _____, including the right to clear, cut, fell, removed, and dispose of any and all timber, trees, underbrush, buildings, improvements and/or other obstructions therefrom; to excavate: dredge, cut away, and remove any or all of said land and to place thereon dredge or spoil material; and for such other purposes as may be required in connection with said work of improvement; reserving, however, to the owners, their heirs and assigns, all such rights and privileges as may be used without interfering with or abridging the rights and easement hereby acquired; subject, however, to existing easements for public roads and highways, public utilities, railroads and pipelines.

FLOOD PROTECTION LEVEE EASEMENT

A perpetual and assignable right and easement in (the land described in Schedule A) (Tracts Nos., _____, _____ and _____) to construct, maintain, repair, operate, patrol and replace a flood protection (levee) (floodwall) (gate closure) (sandbag closure), including all appurtenances thereto; reserving, however, to the owners, their heirs and assigns, all such rights and privileges in the land as may be used without interfering with or abridging the rights and easement hereby acquired; subject, however, to existing easements for public roads and highways, public utilities, railroads and pipelines.

TEMPORARY WORK AREA EASEMENT

A temporary easement and right-of-way in, on, over and across (the land described in Schedule A) (Tracts Nos. _____, _____ and _____), for a period not to exceed _____, beginning with date possession of the land is granted to the United States, for use by the United States, its representatives, agents, and contractors as a (borrow area) (work area), including the right to (borrow and/or deposit fill, spoil and waste material thereon) (move, store and remove equipment and supplies, and erect and remove temporary structures on the land and to perform any other work necessary and incident to the construction of the _____ Project, together with the right to trim, cut, fell and remove therefrom all trees, underbrush, obstructions, and any other vegetation, structures, or obstacles within the limits of the right-of-way; reserving, however, to the landowners, their heirs and assigns, all such rights and privileges as may be used without interfering with or abridging the rights and easement hereby acquired; subject, however, to existing easements for public roads and highways, public utilities, railroads and pipelines.

At this time the plan is to dispose of the material from the channel improvement portion of this project on the Temporary Work Easement area.

ROAD EASEMENT

A (perpetual [exclusive] [non-exclusive] and assignable) (temporary) easement and right-of-way in, on, over and across (the land described in Schedule A) (Tracts Nos. _____, _____ and _____) for the location, construction, operation, maintenance, alteration replacement of (a) road(s) and appurtenances thereto; together with the right to trim, cut, fell and remove therefrom all trees, underbrush, obstructions and other vegetation, structures, or obstacles within the limits of the right-of-way; (reserving, however, to the owners, their heirs and assigns, the right to cross over or under the right-of-way as access to their adjoining land at the locations indicated in Schedule B); 5/ subject, however, to existing easements for public roads and highways, public utilities, railroads and pipelines.

FEE

The fee simple title to (the and described in _____ Schedule A) 1/ (Tracts Nos. _____, _____ and _____), Subject, however, to existing easements for public roads and highways, public utilities, railroads and pipelines. 2/

There are no non-standard estates needed for this project.

1.22 Real Estate Estimate

The real estate requirements for this project is the acquisition of 75.87 acres of temporary work area easement and 115.29 acres of permanent easements, a combination of channel improvement, flood protection levee and road easements. Six acres of mitigation lands will need to be acquired in fee. In accordance with Public Law 115-123, if construction of this project is appropriated with supplemental funds this will be a full Federal Project but it will be the non-Federal sponsor's responsibility to provide

lands, easements and rights-of-way (LER) and the value of LER acquired by the non-Federal sponsor will be eligible for reimbursement by the Government. Reimbursement for LER will be for LER acquired after the date of the Project Partnership Agreement (PPA). If acquisition assistance is requested by the non-Federal sponsor notification will be sent to HQUSACE. The non-Federal sponsor must formally request assistance in writing no later than 30 calendar days after provided written descriptions of the real property interests required for the project. At the time of this study, the NFS is capable and willing to furnish the LERRDS.

The estimated administrative real estate costs are based on acquisition by the non-Federal Sponsor. Land values are based on a Gross Appraisal completed by the USACE Savannah District Real Estate Office. The completion date of the Gross Appraisal is 13 September 2019 with an effective date of 16 April 2019. A 25% contingency is applied to the estimated total real estate costs. Table 1.21-1 is a summary of the real estate cost.

Table 1.22-1. Real Estate Cost Estimate

Rio Guayanilla Section 722 - Real Estate Estimate		
a. Lands		\$2,846,000.00
\$2 Perpetual Easement	\$2,624,000.00	
Temporary Work Easement	\$269,000.00	
Fee	\$35,000.00	
b. Residence/Business Relocation (Buy-out)		\$1,000,000.00
(Residential)	\$1,000,000.00	
(Commercial)	\$0.00	
c. Mineral Rights		
d. Damages		
e. P.L. 91-646 Relocation Costs (Benefits and Admin)		\$270,000.00
Federal	\$45,000.00	
Non-Federal	\$225,000.00	
f. Administrative Acquisition Costs		\$720,000.00
Federal	\$120,000.00	
Non-Federal	\$600,000.00	
Subtotal		\$4,836,000.00
Contingency (25%)		\$1,209,000.00
g. Road and Utility Relocations*		\$19,770,000.00
Road Relocations	\$4,443,000.00	
Bridge Relocations	\$13,997,000.00	
Utility Relocations	\$1,330,000.00	
Total Real Estate Costs		\$25,815,000.00

(* Costs for Road and Utility Relocations has a 35% contingency added therefore the 25% contingency for Real Estate costs was not added to this cost)

1.23 Chart of Accounts

The cost estimate for all Federal and non-Federal real estate activities necessary for implementation of the project are coded as delineated in the Cost Work Breakdown Structure (CWBS). This real estate cost estimate is then incorporated into the Total Project Cost Summary utilizing the Microcomputer Aided Cost Engineering System (MCACES) (Table 1.23-1).

Table 1.23-1. Chart of Accounts

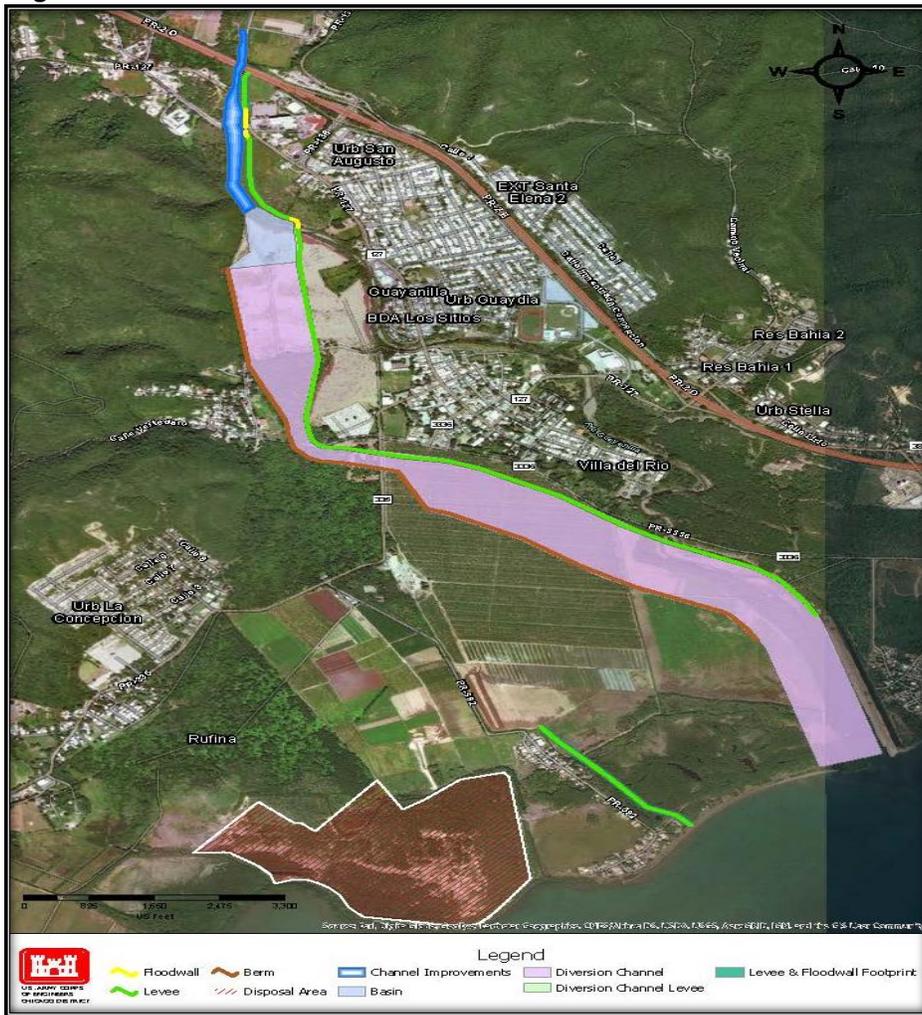
01A	PROJECT PLANNING	FEDERAL	NON-FEDERAL	TOTALS
	Other			
	Project Cooperation Agreement	-	-	-
01AX	Contingencies (%)	-	-	-
	Subtotal	-	-	-
01B	LANDS AND DAMAGES			
01B40	Acq/Review of PS	120,000.00	-	120,000.00
01B20	Acquisition by PS		600,000.00	600,000.00
01BX	Contingencies (25%)	<u>30,000.00</u>	<u>150,000.00</u>	<u>180,000.00</u>
	Subtotal	150,000.00	750,000.00	900,000.00
01H	AUDIT			
01H10	Real Estate Audit	-		-
01HX	Contingencies (%)	-		-
	Subtotal	-		-
01R	REAL ESTATE LAND PAYMENTS			
01R1B	Land Payments by PS	-	3,846,000.00	3,846,000.00
01R2B	PL91-646 Relocation Pymt by PS		225,000.00	225,000.00
01R2D	Review of PS	45,000.00	-	45,000.00
01RX	Contingencies (25%)	<u>11,000.00</u>	<u>1,018,000.00</u>	<u>1,029,000.00</u>
	Subtotal	56,000.00	5,089,000.00	5,145,000.00
02	FACILITY RELOCATION			
02A	Road & Utility Relocation		19,770,000.00	19,770,000.00
	TOTALS	206,000.00	25,609,000.00	25,815,000.00

1.24 Other Real Estate Considerations

Alternative #6, Staged Greenway Terraces with Single Line Protection is included in this REP to clarify why the more environmentally friendly design wasn't selected. This alternative would construct a terraced greenway diversion channel at the end of the montane unit and beginning of the coastal plain unit of the Rio Guayanilla, just south of

PR-127. A robust diversion structure would be put in place across the river channel to split flows, sending all flood waters to the terraced greenway channel, but keeping almost bank-full flows to maintain the ephemeral riverine ecology of the Rio Guayanilla. The diversion structure conceptual design includes riverine connectivity for sediment transport and fish passage. This alternative would have levees on one side only, the town side or east of the terraced greenway. The west side of the channel would remain at grade and allow certain magnitudes of flood to spread wider to the west, flooding non-developed and agricultural lands. The terraced greenway footprint for this alternative would be very wide in certain sections, about 780-feet based on current hydrologic and hydraulic modeling (Figure 1.24-1).

Figure 1.24-1. Alternative #6



Real Estate required for the Alternative #6 plan consists of approximately 201.19 acres of channel improvement easement, approximately 28.71 acres of flood damage levee protection easement and approximately 49.26 of temporary work area easement for a period of 5 years (Table 1.24-1).

Table 1.24-1 Real Estate Requirements (Alternative #6)

Parcel ID	Channel Improvement Easement Estates	Flood Reduction Easement Estate	Temporary Work Easement Estate	Road Easement Estates
386-013-085-03	14.49	7.4	8.36	0.00
362-093-248-01	0.26	0.13	0.00	0.00
386-013-085-04	4.41	0.00	0.00	0.00
362-000-001-01	26.52	0.00	0.00	0.00
386-013-085-01	0.22	0.00	0.00	0.00
386-013-085-02	2.4	0.00	0.00	0.00
386-000-001-03	1.39	0.00	0.00	0.61
362-000-006-91	0.07	0.09	0.00	0.00
362-000-006-97	.73	1.02	0.00	0.00
362-092-244-50	2.52	3.37	0.00	0.00
362-092-244-49	0.00	0.11	0.00	0.00
386-003-003-14	0.48	0.00	0.00	0.00
362-003-007-47	0.19	0.00	0.00	0.00
386-003-003-09	1.88	0.00	0.00	0.00
362-000-007-47	0.75	1.10	27.69	0.00
362-000-007-35	0.00	0.00	3.40	0.00
362-000-007-41	25.31	4.27	0.85	0.00
386-000-008-08	117.45	9.62	8.03	0.00
362-000-007-38	0.82	1.60	0.00	0.55
362-000-007-32	0.04	0.00	0.00	0.00
Total Acres	199.93	28.71	48.33	1.16

Residential Fee Estates	
Parcel ID	Estimated Fee Estate Value
386-003-003-10	\$173,000
362-000-007-47 (5 single family residences on one parcel)	\$518,000
362-082-002-16	\$104,000
362-082-002-15	\$104,000
362-082-002-14	\$104,000
Total Estimated Buyout Value	\$1,003,000.00

Fee Acquisition for Mitigation	Estimated Fee Estate	Estimated Fee Estate Cost
--------------------------------	----------------------	---------------------------

386-000-008-08	6.0	34,500.00
----------------	-----	-----------

The proposed mitigations land will need approximately 6 acres in fee acquisition.

Road and bridge relocations will require 1.16 acres of perpetual road easement.

The Real Estate Maps in Exhibit D will show the complete real estate requirements anticipated for Alternative 6.

The real estate cost estimate for Alternative #6 can be found in Table 1.24-2.

Table 1.24-2. Real Estate Cost Estimate

Rio Guayanilla Section 722 - Real Estate Estimate		
a. Lands		\$3,790,000.00
\$2 Perpetual Easement	\$3,581,000.00	
Temporary Work Easement	\$167,000.00	
Fee	\$35,000.00	
b. Residence/Business Relocation (Buy-out)		\$1,000,000.00
(Residential)	\$1,000,000.00	
(Commercial)	\$0.00	
c. Mineral Rights		
d. Damages		
e. P.L. 91-646 Relocation Costs (Benefits and Admin)		\$270,000.00
Federal	\$45,000.00	
Non-Federal	\$225,000.00	
f. Administrative Acquisition Costs		\$720,000.00
Federal	\$120,000.00	
Non-Federal	\$600,000.00	
Subtotal		\$5,780,000.00
Contingency (25%)		\$1,445,000.00
g. Road and Utility Relocations*		\$19,920,000.00
Road Relocations	\$4,443,000.00	
Bridge Relocations	\$13,997,000.00	
Utility Relocations	\$1,480,000.00	

Total Real Estate Costs \$27,146,000.00

(* Costs for Road and Utility Relocations has a 35% contingency added therefore the 25% contingency for Real Estate costs was not added to this cost)

All other areas of the Real Estate Plan for Alternative #6 are unknown or the same as Alternative #3.

Real Estate Plan Certification

This Real Estate Appendix has been prepared in accordance with policy and guidance set forth in ER 405-1-12, Chapter 12, Real Estate Planning and Acquisition Responsibilities for Civil Works Projects.

Prepared by:

Carla J. Buatte
Supervisory Realty Specialist

Reviewed and approved by:

AUTHORIZATION FOR ENTRY FOR CONSTRUCTION

I _____, _____ for the

(Name of accountable official)

(Title)

(Sponsor Name) _____, do hereby certify that the **(Sponsor Name)** has acquired the real property interest required by the Department of the Army, and otherwise is vested with sufficient title and interest in lands to support construction for **(Project Name, Specifically identified project features, etc.)**. Further, I hereby authorize the Department of the Army, its agents, employees and contractors, to enter upon _____

(identify tracts)

to construct **(Project Name, Specifically identified project features, etc.)** as set forth in the plans and specifications held in the U. S. Army Corps of Engineers' **(district, city, state)**

WITNESS my signature as _____ for the

(Title)

(Sponsor Name) this _____ day of _____, 20_____.

BY: _____

(Name)

(Title)

ATTORNEY'S CERTIFICATE OF AUTHORITY

I, _____, _____ for the

(Name)

(Title of legal officer)

(Sponsor Name), certify that _____ has

(Name of accountable official)

authority to grant Authorization for Entry; that said Authorization for Entry is executed by the proper duly authorized officer; and that the Authorization for Entry is in sufficient form to grant the authorization therein stated.

WITNESS my signature as _____ for the

(Title)

(Sponsor Name), this _____ day of _____, 20_____.

BY: _____

(Name)

(Title)

Exhibit A

A-1

**Assessment of Non-Federal Sponsor's
Real Estate Acquisition Capability**

I. Legal Authority:

- a. Does the sponsor have legal authority to acquire and hold title to real property for project purposes? (yes/no) **YES**
- b. Does the sponsor have the power to eminent domain for this project? (yes/no) **YES**
- c. Does the sponsor have "quick-take" authority for this project? (yes/no) **NO**
- d. Are any of the land/interests in the land required for this project located outside the sponsor's political boundary? (yes/no) **NO**
- e. Are any of the lands/interests in land required for the project owned by an entity whose property the sponsor cannot condemn? (yes/no) **NO**

II. Human Resource Requirements:

- a. Will the sponsor's in-house staff require training to become familiar with the real estate requirements of Federal projects including P. L. 91-646, as amended? (yes/no) **NO**
- b. If the answer to II.a. is "yes", has a reasonable plan been developed to provide such training? (yes/no)
- b. Does the sponsor's in-house staff have sufficient real estate acquisition experience to meet its responsibilities for the project? (yes/no) **YES**
- c. Is the sponsor's projected in-house staffing level sufficient considering its other work load, if any, and the project schedule? (yes/no) **YES**
- e. Can the sponsor obtain contractor support, if required in a timely fashion? (yes/no) **YES**
- f. Will the sponsor likely request USACE assistance in acquiring real estate? (yes/no) **NO**

III. Other Project Variables:

- a. Will the sponsor's staff be located within reasonable proximity to the project site? (yes/no) **YES**
- b. Has the sponsor approved the project/real estate schedule/milestones? (yes/no) **YES.**
Once USACE notify us, DNER is capable to make the acquisitions in 15 to 18 months.

IV. Overall Assessment:

- a. Has the sponsor performed satisfactory on other USACE projects? **YES**
(yes/no/not applicable)
- b. With regard to the project, the sponsor is anticipated to be: **highly capable**/fully capable/moderately capable/marginally capable/insufficiently capable.

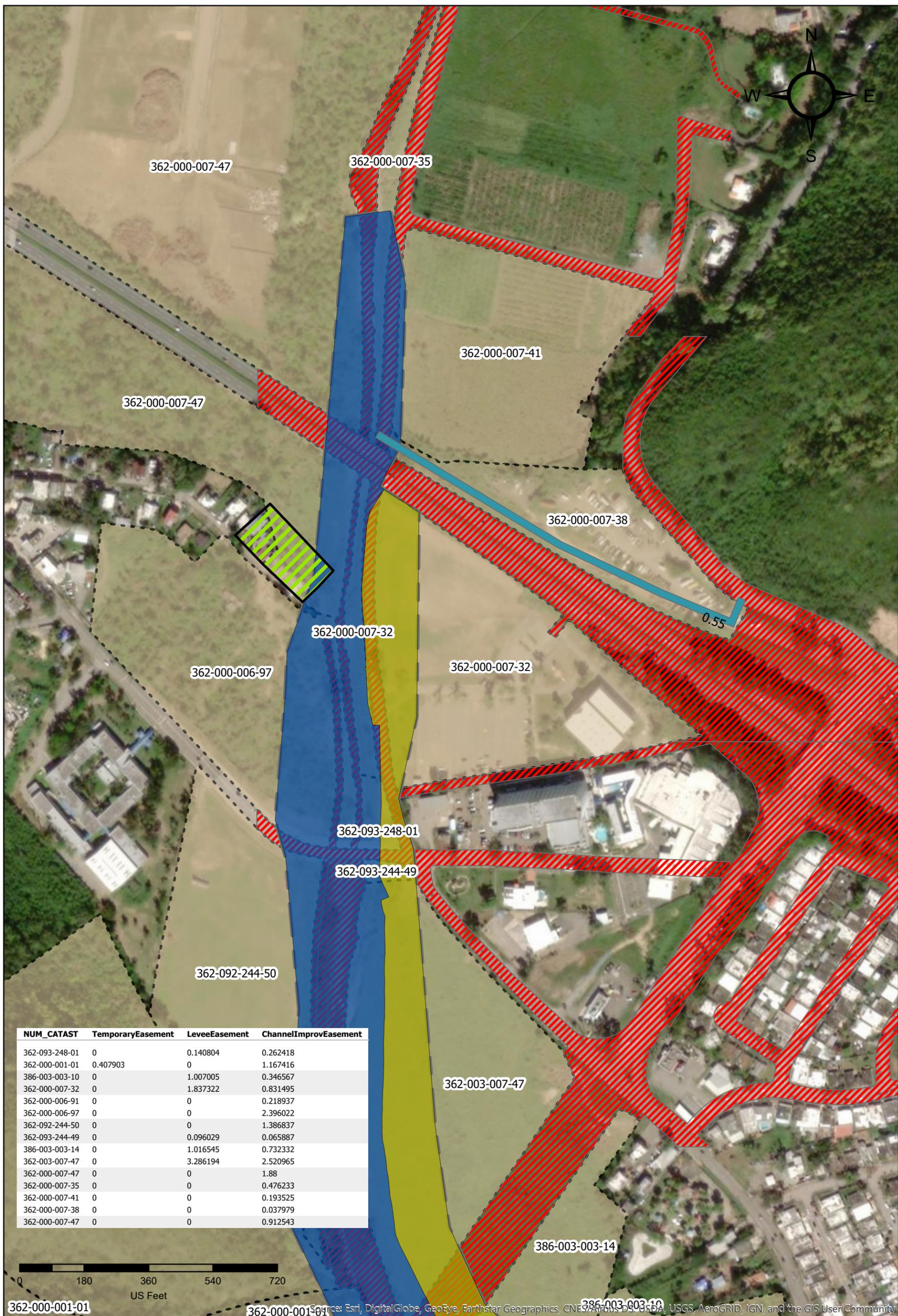
V. Coordination:

- a. Has this assessment been coordinated with the sponsor? (yes/no) **YES**
- b. Does the sponsor concur with this assessment? (yes/no) (If “no”, provide explanation)
YES

Prepared by:

Carla J. Buatte
Supervisory Realty Specialist

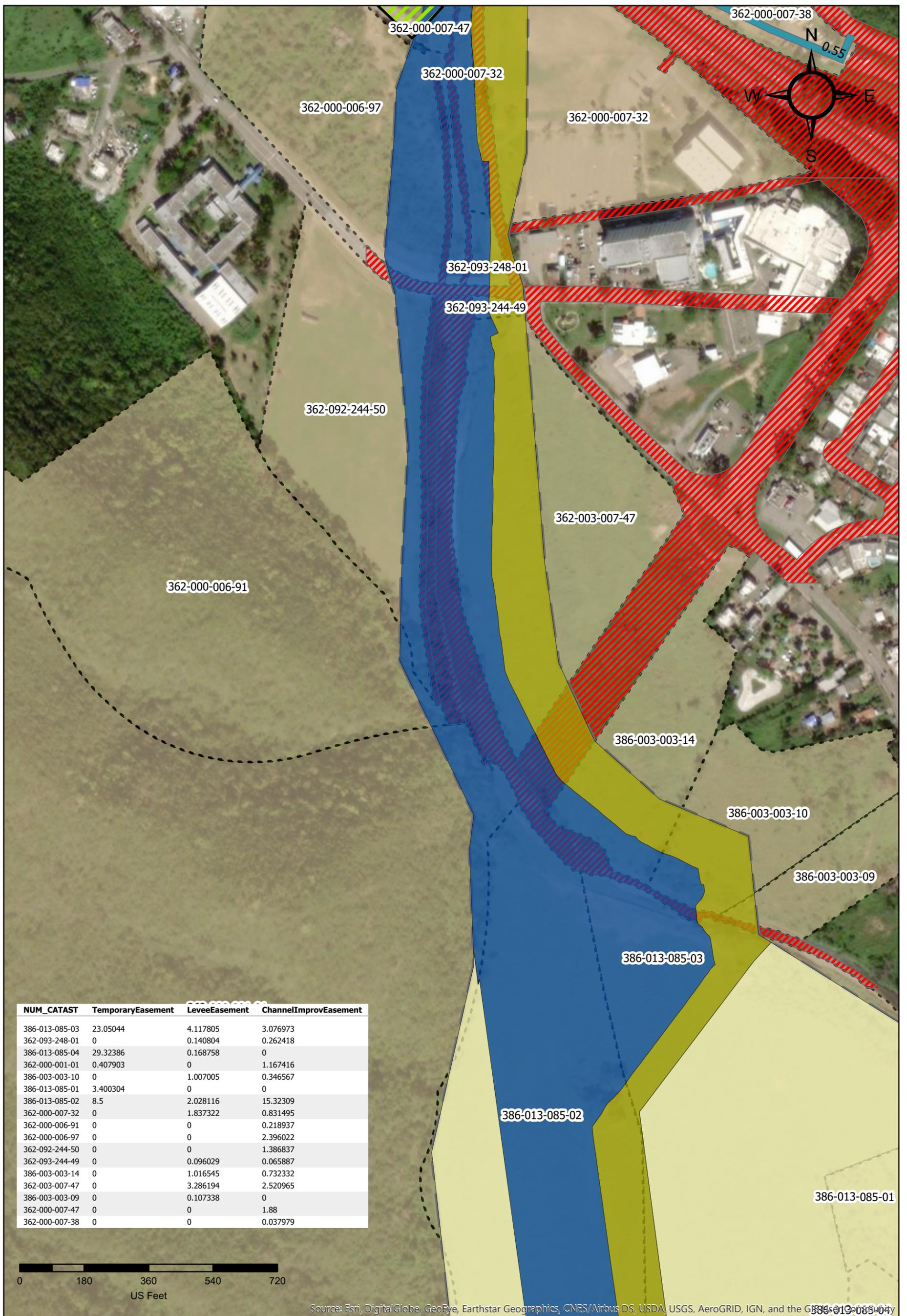
Reviewed and approved by:



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- WorkLimits
- ROW
- Parcels
- Parcels
- Channel Improvement Easement
- Levee Easement
- Temporary Easement
- Home -Buyout
- New Road



NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
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362-093-248-01	0	0.140804	0.262418
386-013-085-04	29.32386	0.168758	0
362-000-001-01	0.407903	0	1.167416
386-003-003-10	0	1.007005	0.346567
386-013-085-01	3.400304	0	0
386-013-085-02	8.5	2.028116	15.32309
362-000-007-32	0	1.837322	0.831495
362-000-006-91	0	0	0.218937
362-000-006-97	0	0	2.396022
362-092-244-50	0	0	1.386837
362-093-244-49	0	0.096029	0.065887
386-003-003-14	0	1.016545	0.732332
362-003-007-47	0	3.286194	2.520965
386-003-003-09	0	0.107338	0
362-000-007-47	0	0	1.88
362-000-007-38	0	0	0.037979



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



U.S. ARMY CORPS OF ENGINEERS CHICAGO DISTRICT

Legend

 Work Limits

 ROW

 Parcels

 Parcels

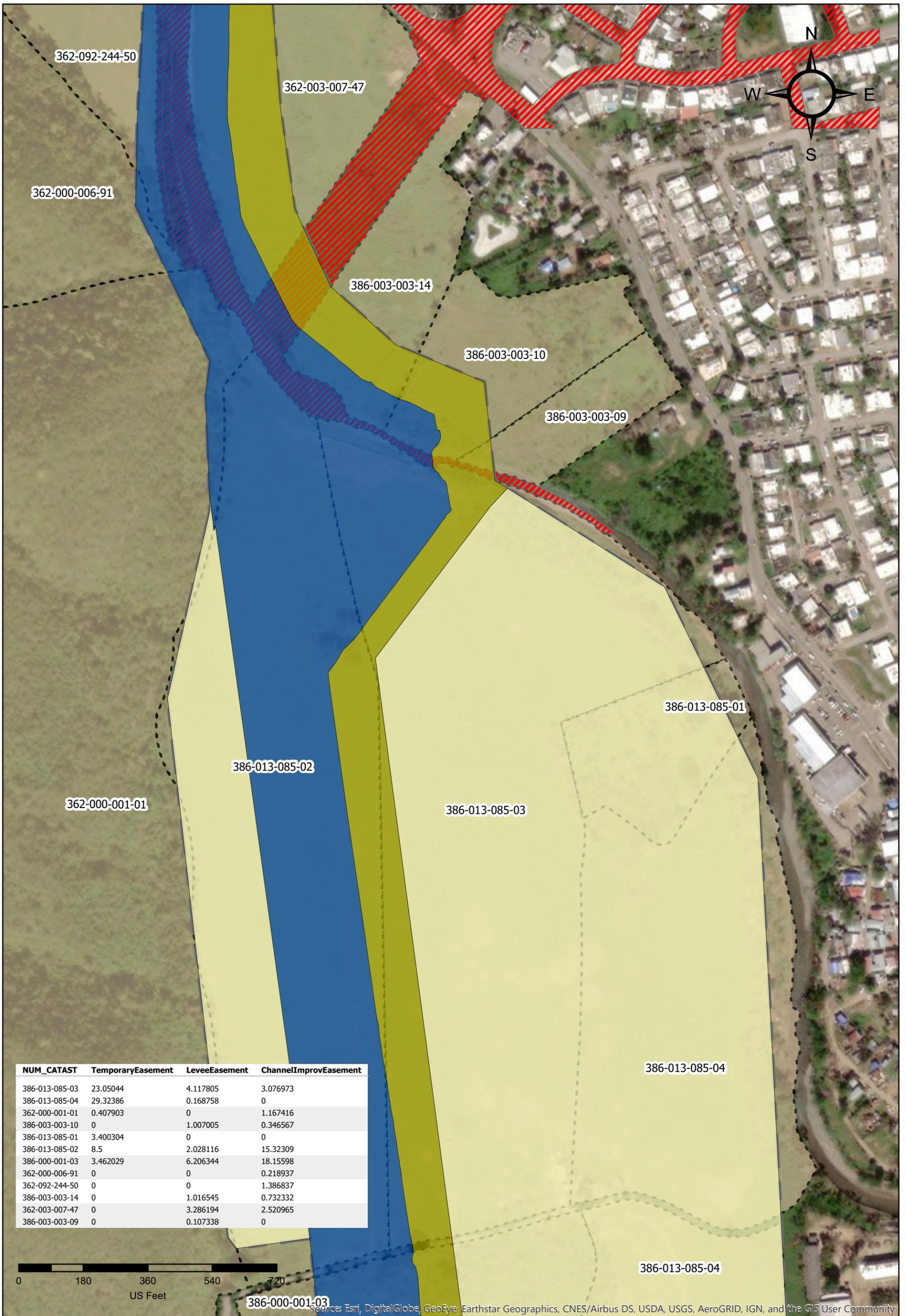
 Channel Improvement Easement

 Levee Easement

 Temporary Easement

 Home -Buyout

 New Road



NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
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386-013-085-04	29.32386	0.168758	0
362-000-001-01	0.407903	0	1.167416
386-003-003-10	0	1.007005	0.346567
386-013-085-01	3.400304	0	0
386-013-085-02	8.5	2.028116	15.32309
386-000-001-03	3.462029	6.206344	18.15598
362-000-006-91	0	0	0.218937
362-092-244-50	0	0	1.386837
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362-003-007-47	0	3.286194	2.520965
386-003-003-09	0	0.107338	0

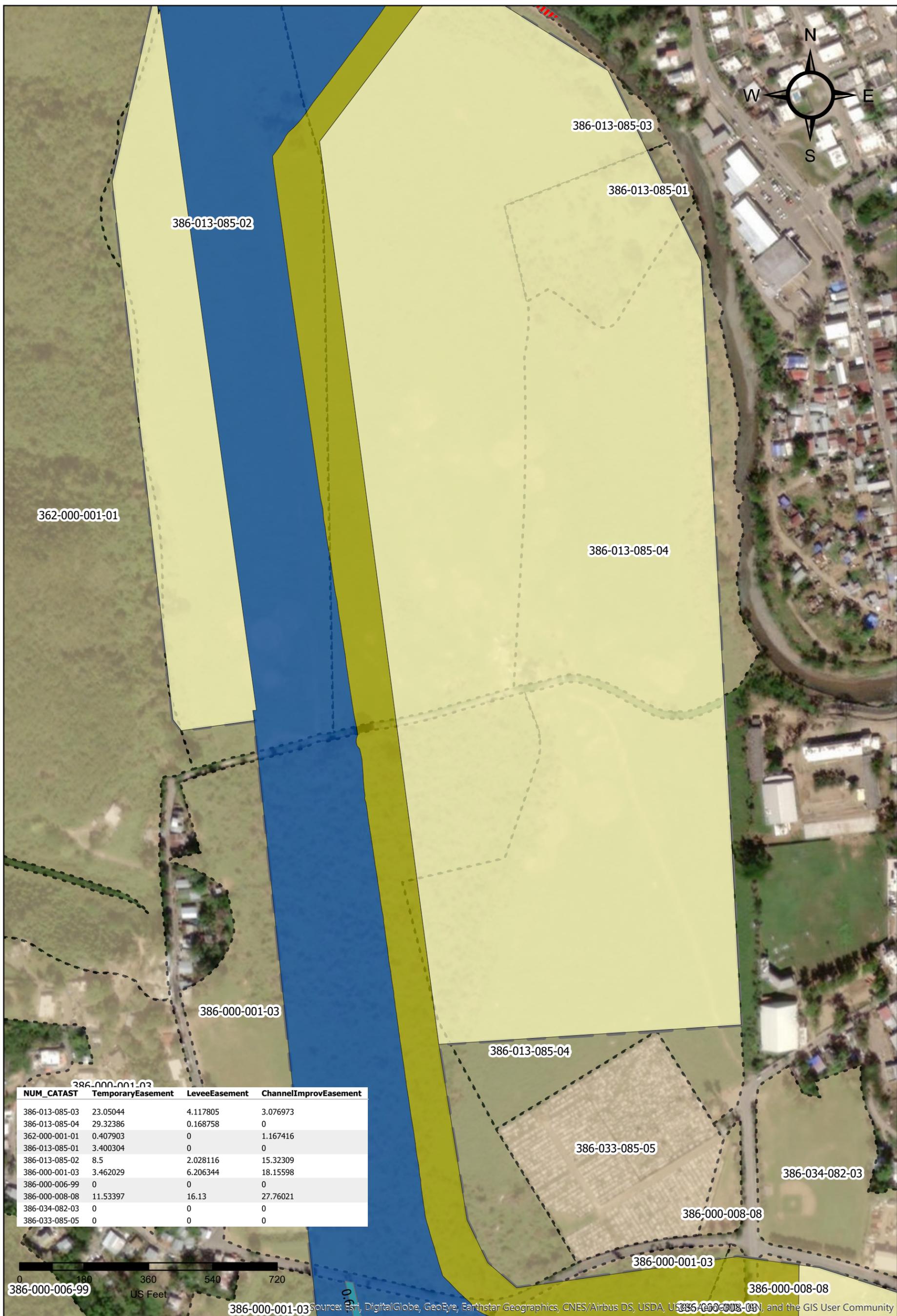


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

Work Limits	Parcels	Channel Improvement Easement	Temporary Easement	New Road
ROW	Parcels	Levee Easement	Home -Buyout	



NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
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386-013-085-01	3.400304	0	0
386-013-085-02	8.5	2.028116	15.32309
386-000-001-03	3.462029	6.206344	18.15598
386-000-006-99	0	0	0
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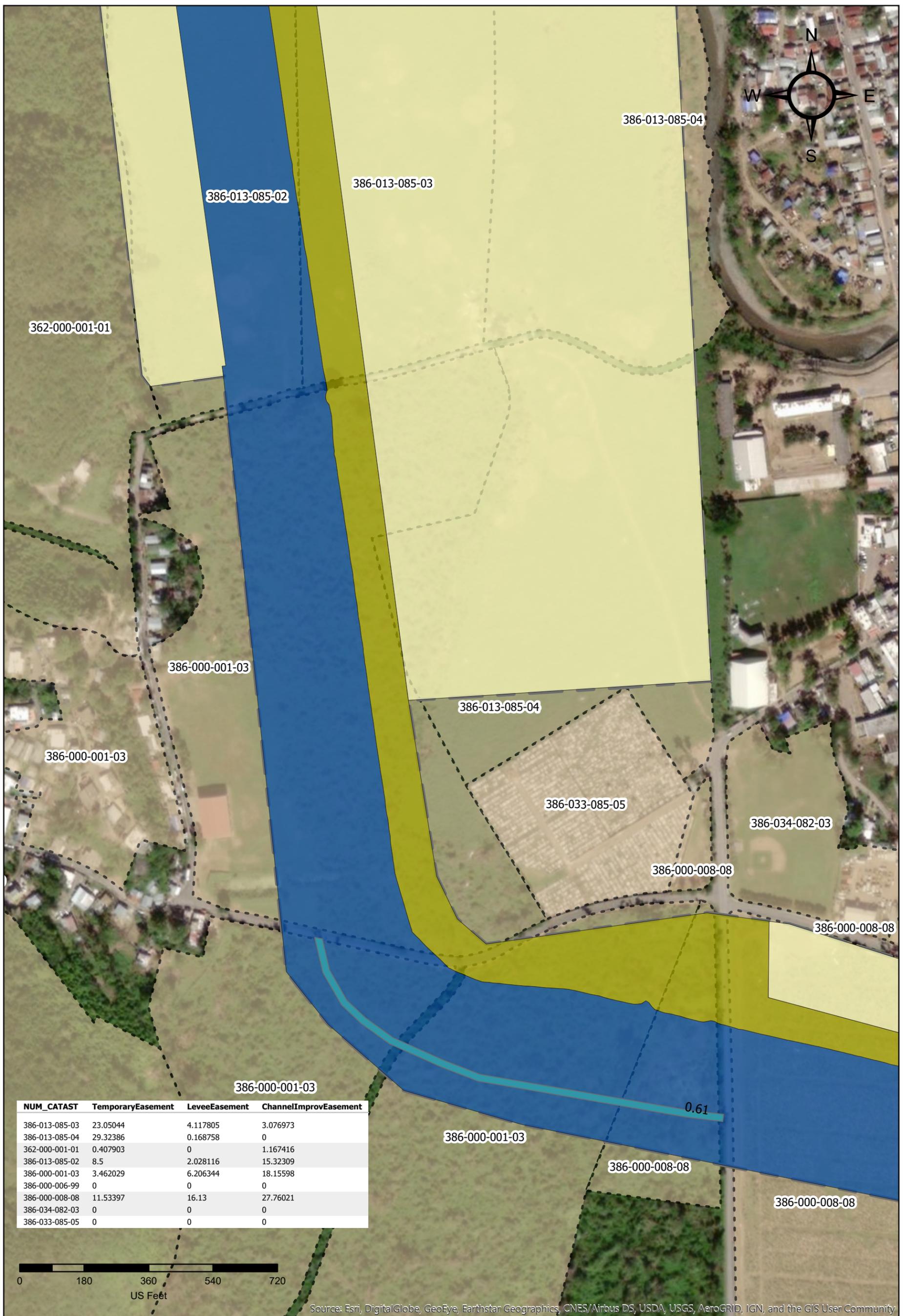
Work Limits
 ROW

Parcels
 Parcels

Channel Improvement Easement
 Levee Easement

Temporary Easement
 Home -Buyout

New Road



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WorkLimits
ROW

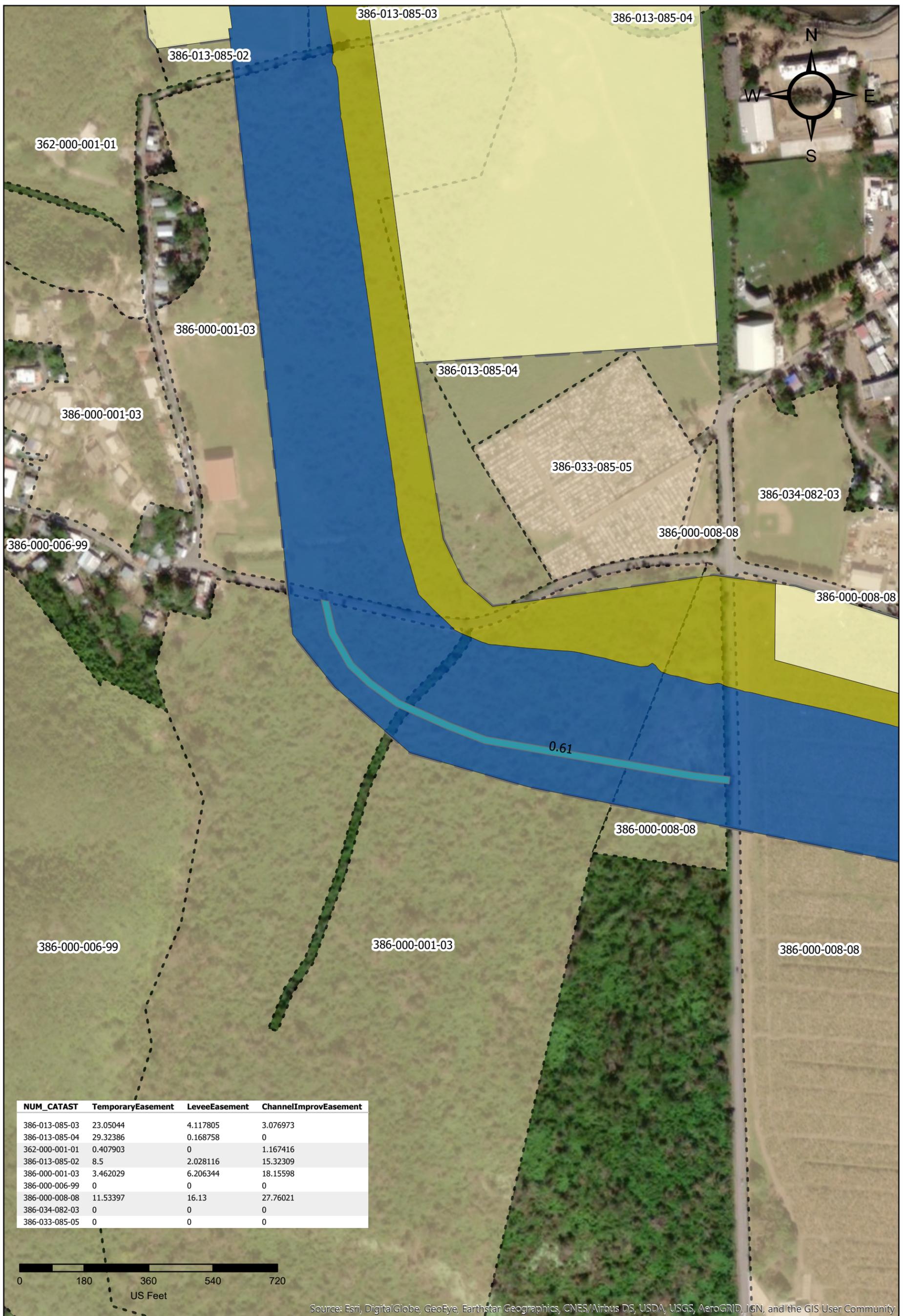
Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WorkLimits
ROW

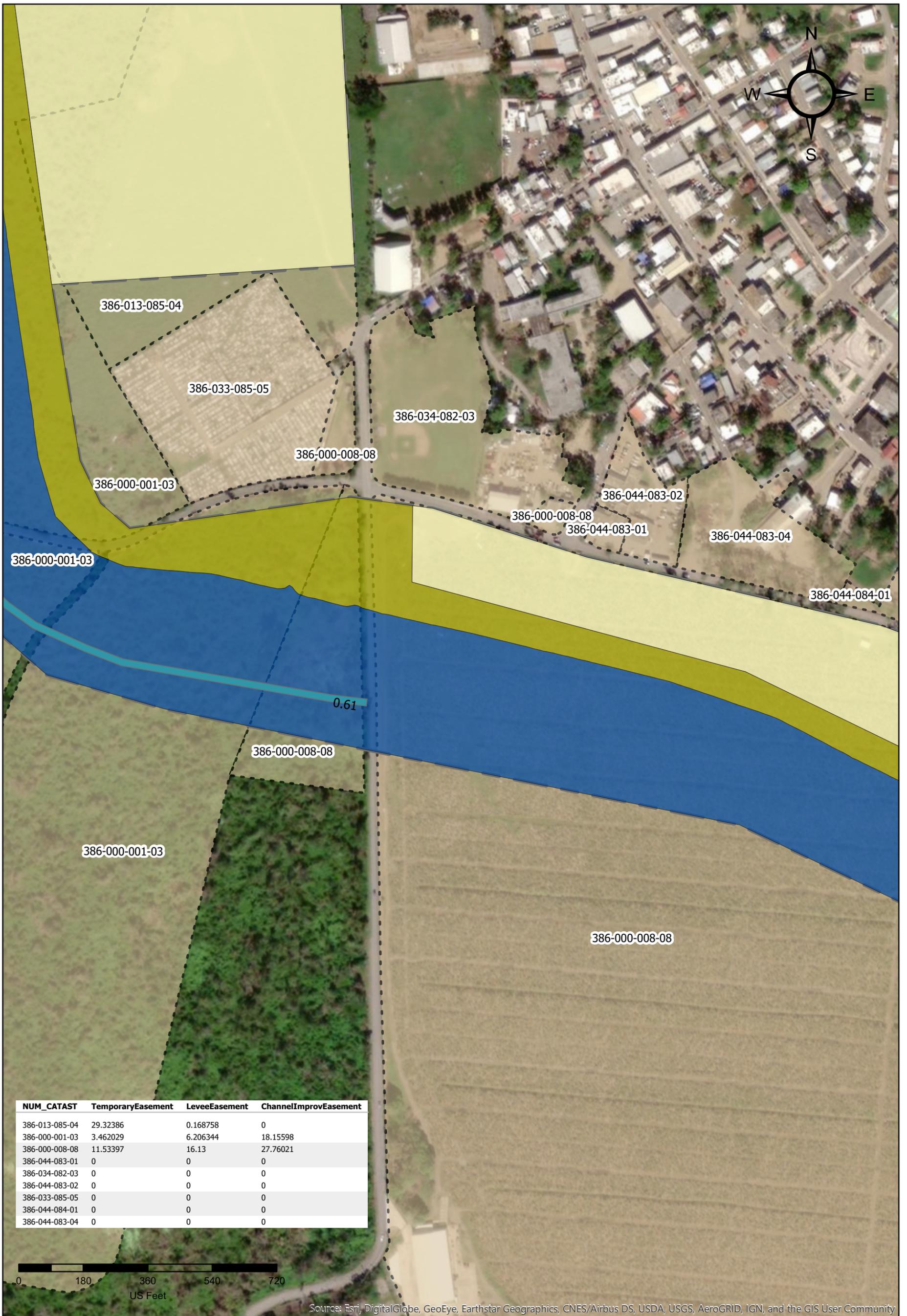
Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



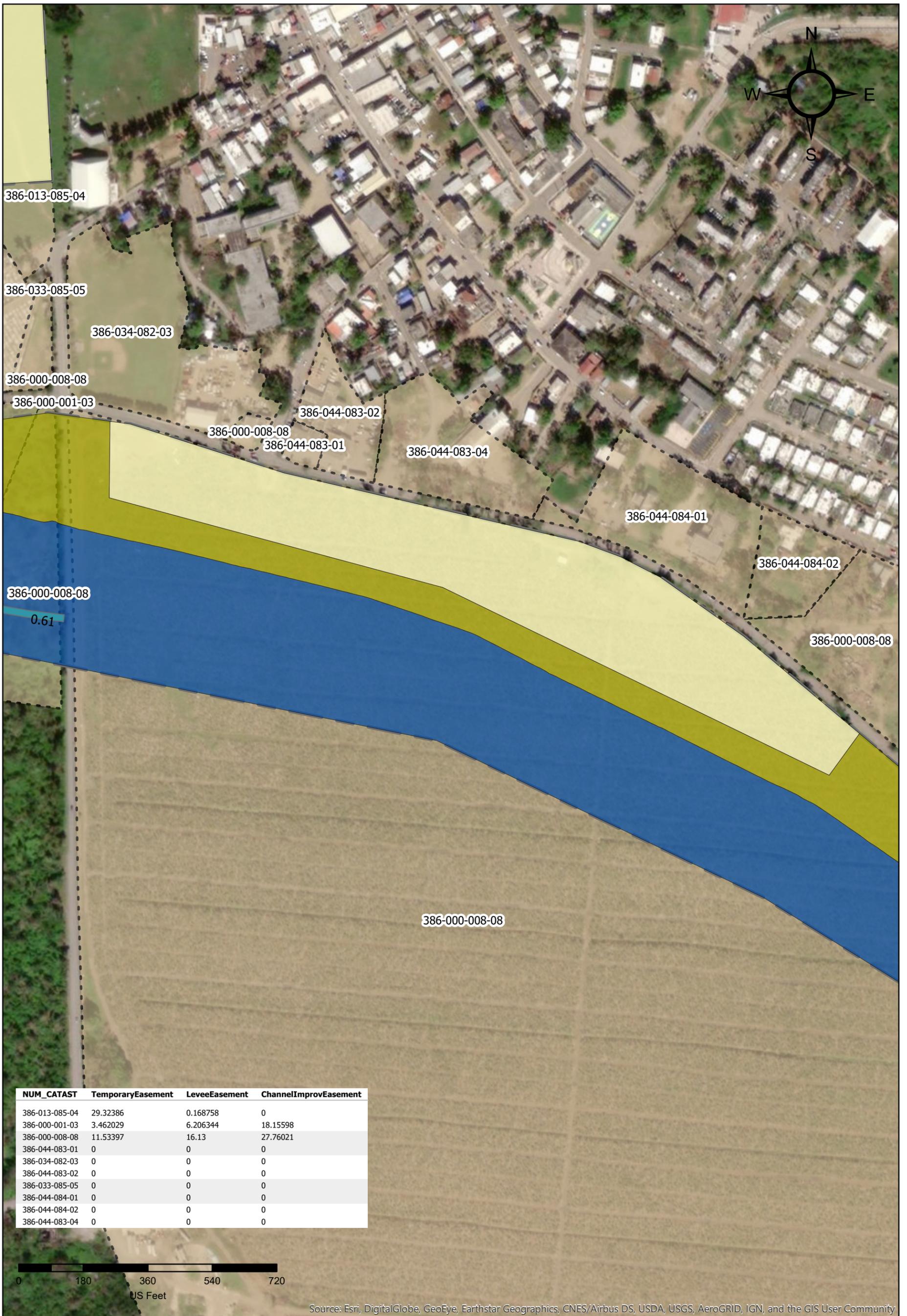
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386-044-083-02	0	0	0
386-033-085-05	0	0	0
386-044-084-01	0	0	0
386-044-083-04	0	0	0

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- WorkLimits
- Parcels
- Channel Improvement Easement
- Temporary Easement
- New Road
- ROW
- Parcels
- Levee Easement
- Home -Buyout



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WorkLimits
ROW

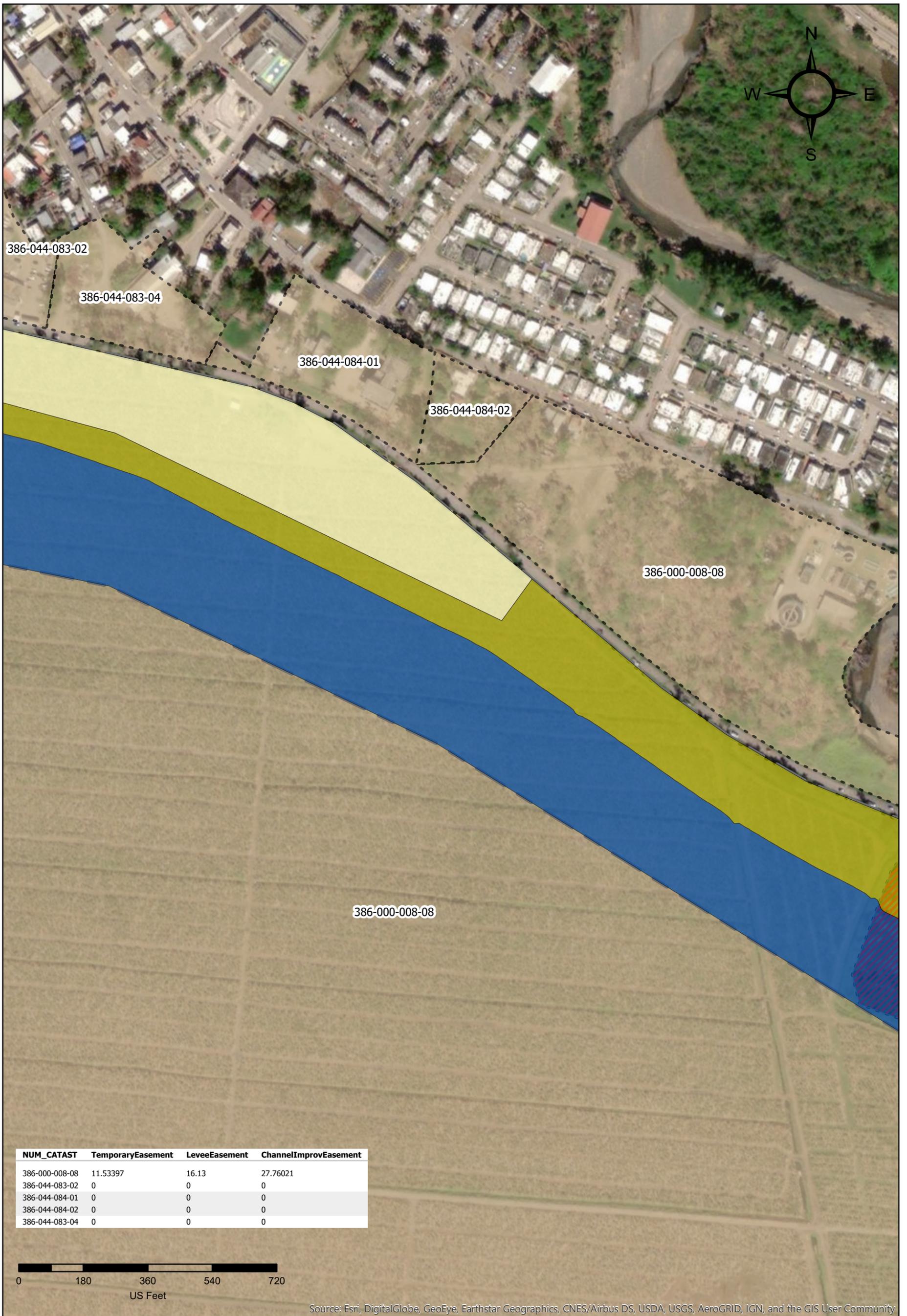
Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



WorkLimits
ROW

Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



WorkLimits
ROW

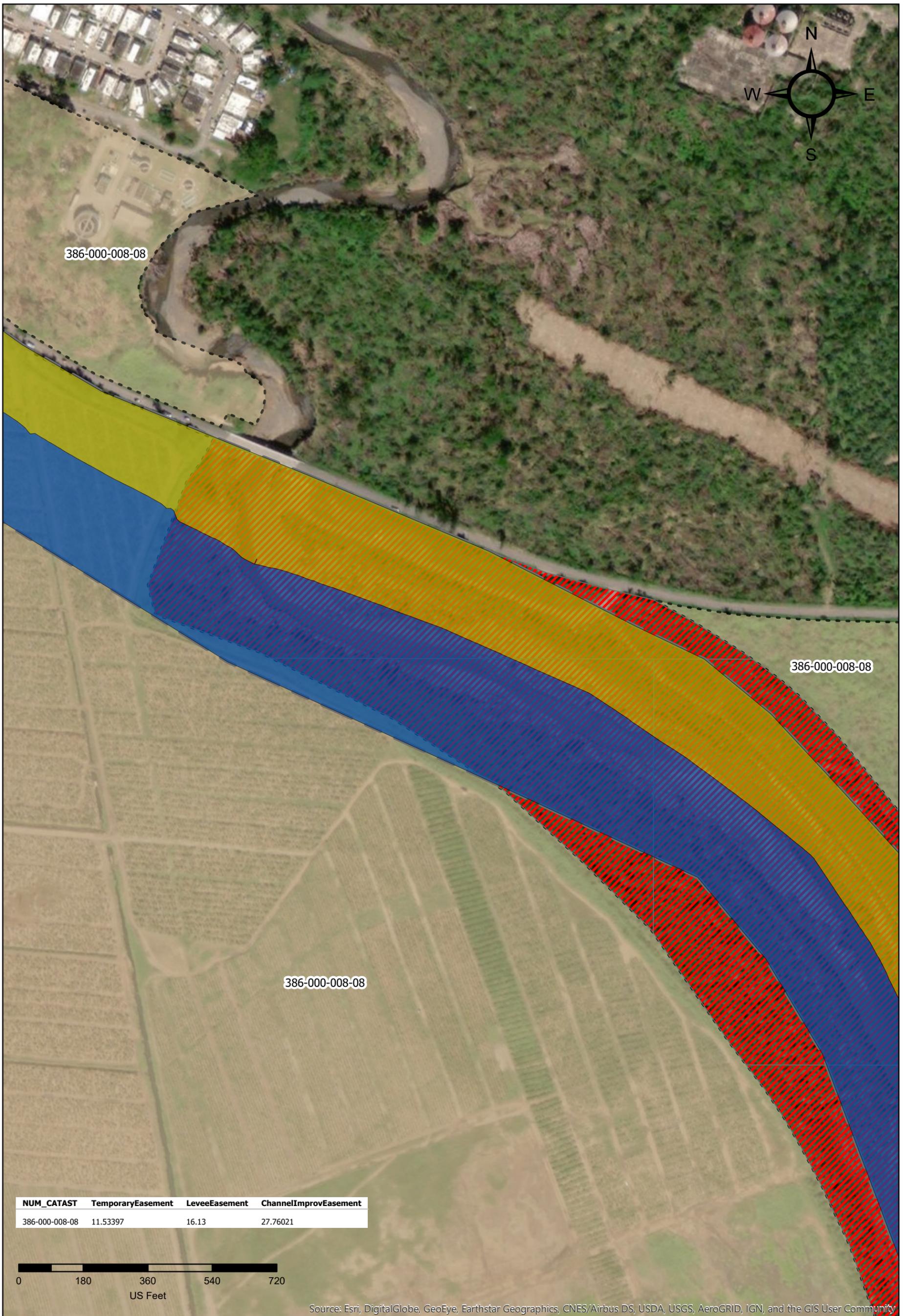
Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



Work Limits
ROW

Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



WorkLimits
ROW

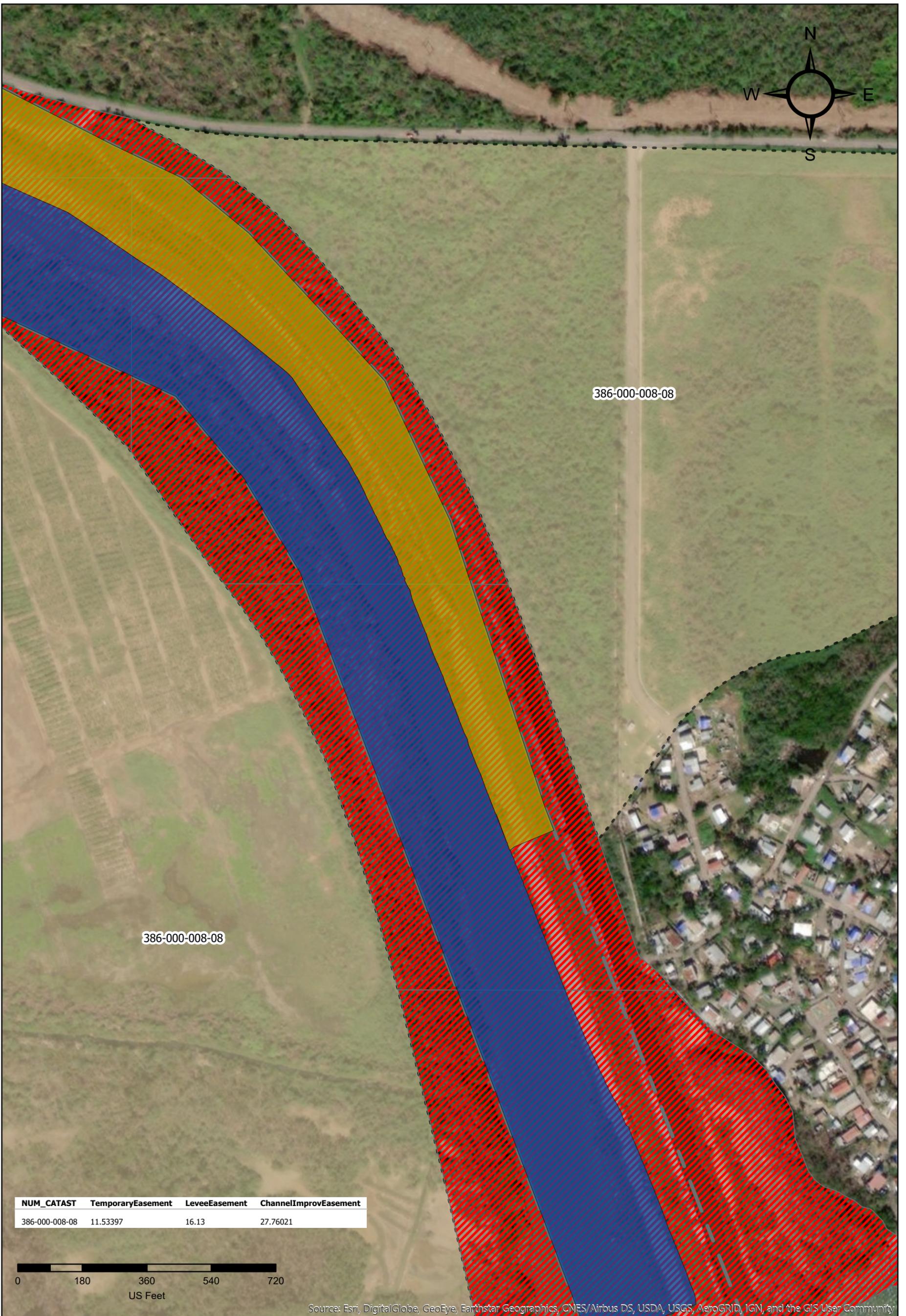
Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



WorkLimits
ROW

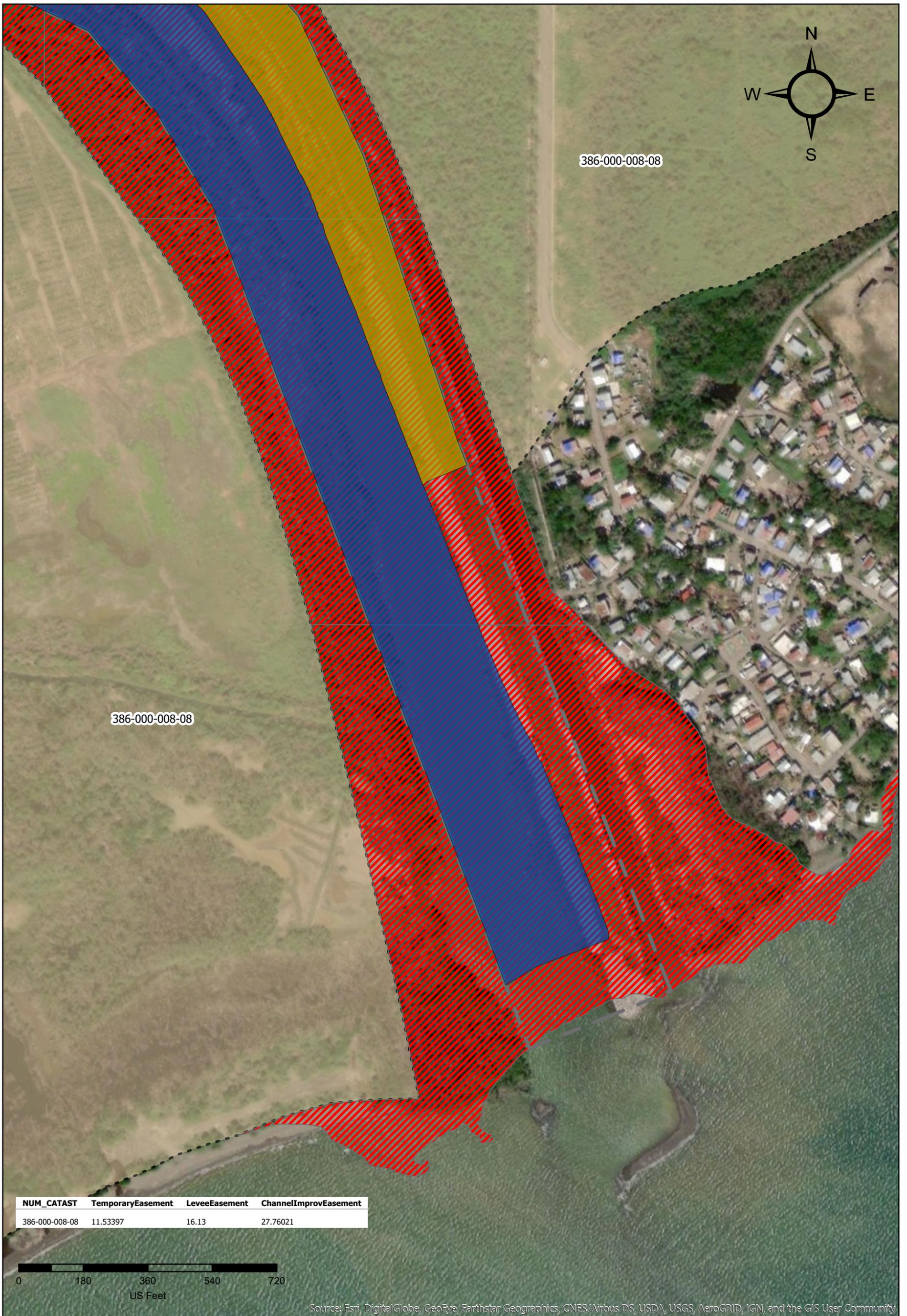
Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WorkLimits
ROW

Parcels
Parcels

Channel Improvement Easement
Levee Easement

Temporary Easement
Home -Buyout

New Road

Legend



NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
386-000-008-08	11.53397	16.13	27.76021



WorkLimits
 ROW

Parcels
 Parcels

Channel Improvement Easement
 Levee Easement

Temporary Easement
 Home -Buyout

New Road

Legend



386-000-008-08

386-000-007-15

NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
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386-000-007-15	0	0	0



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

-
- WorkLimits
- Parcels
- Channel Improvement Easement
- Temporary Easement
- New Road
- ROW
- Parcels
- Levee Easement
- Home -Buyout



386-000-008-08

NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
386-000-008-08	11.53397	16.13	27.76021



Source: Esri, DigitalGlobe, GeoEye, Earthstar/Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- Work Limits
- Parcels
- Channel Improvement Easement
- Temporary Easement
- New Road
- ROW
- Parcels
- Levee Easement
- Home -Buyout



NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
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386-000-006-99	0	0	0



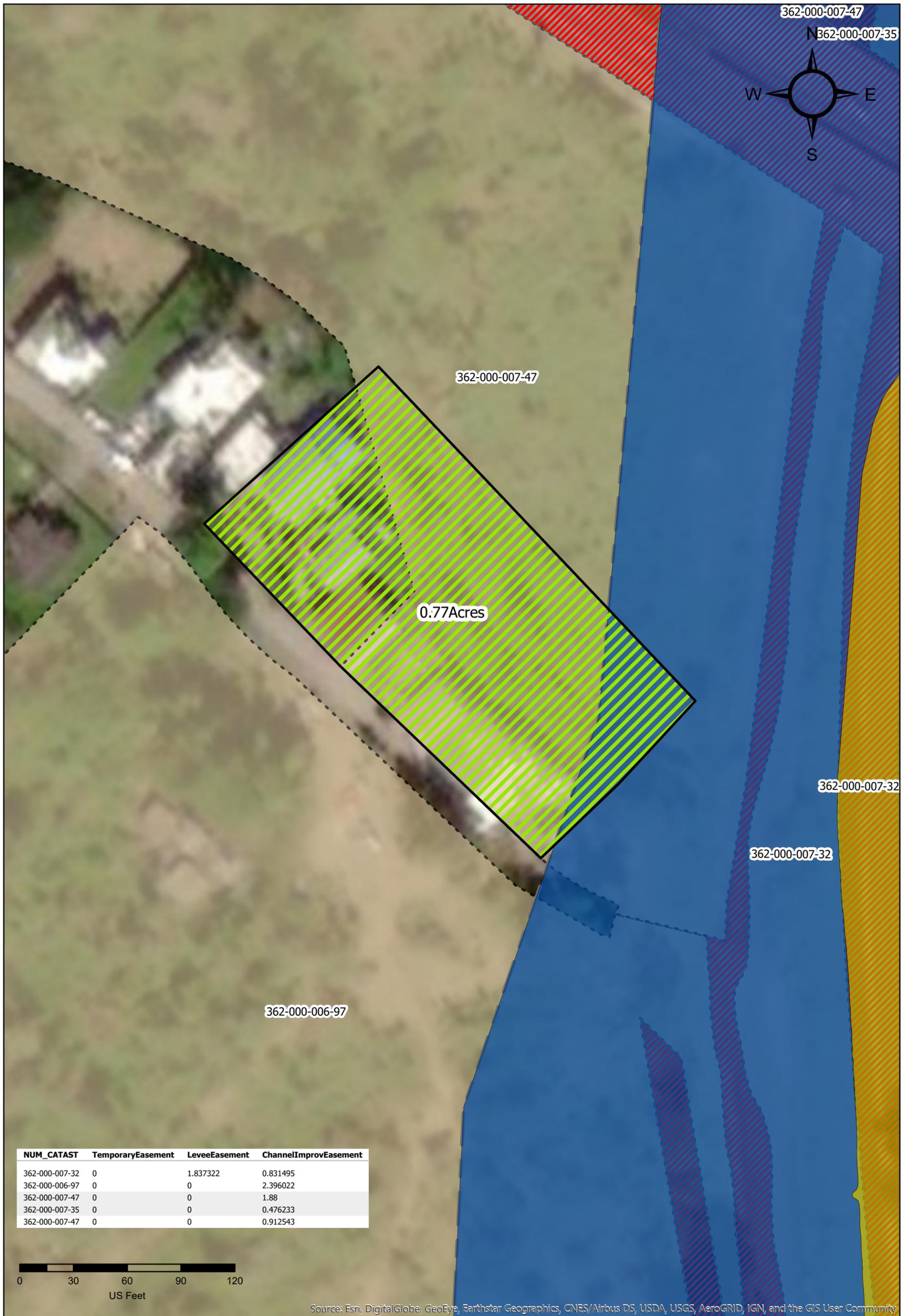
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CHICAGO DISTRICT

Legend

 WorkLimits	 Parcels	 Channel Improvement Easement	 Temporary Easement	 New Road
 ROW	 Parcels	 Levee Easement	 Home -Buyout	



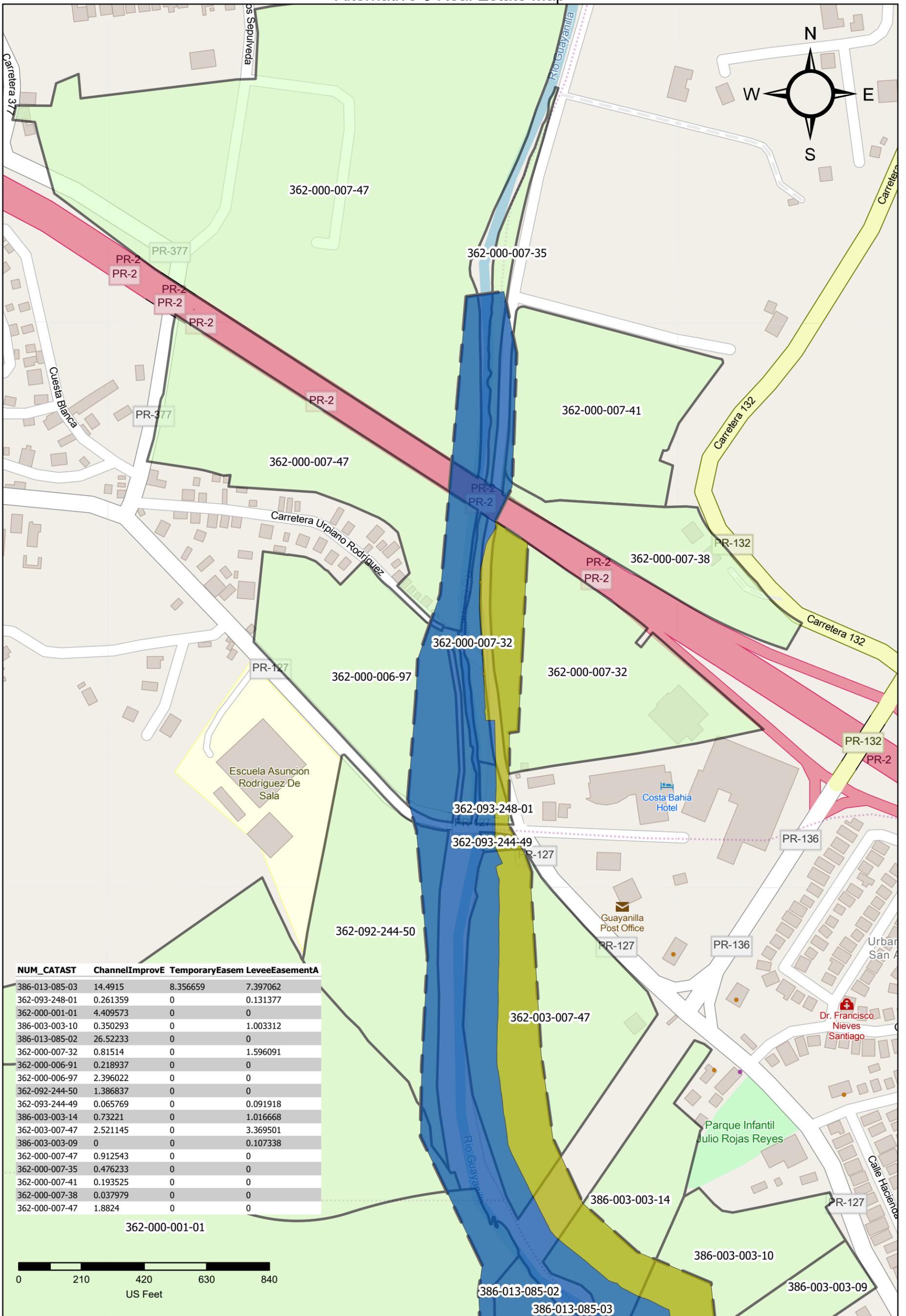
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362-000-006-97	0	0	2.396022
362-000-007-47	0	0	1.88
362-000-007-35	0	0	0.476233
362-000-007-47	0	0	0.912543



Legend

- Work Limits
- Parcels
- Channel Improvement Easement
- Temporary Easement
- ROW
- Parcels
- Levee Easement
- Home -Buyout

Alternative 6 Real Estate Map



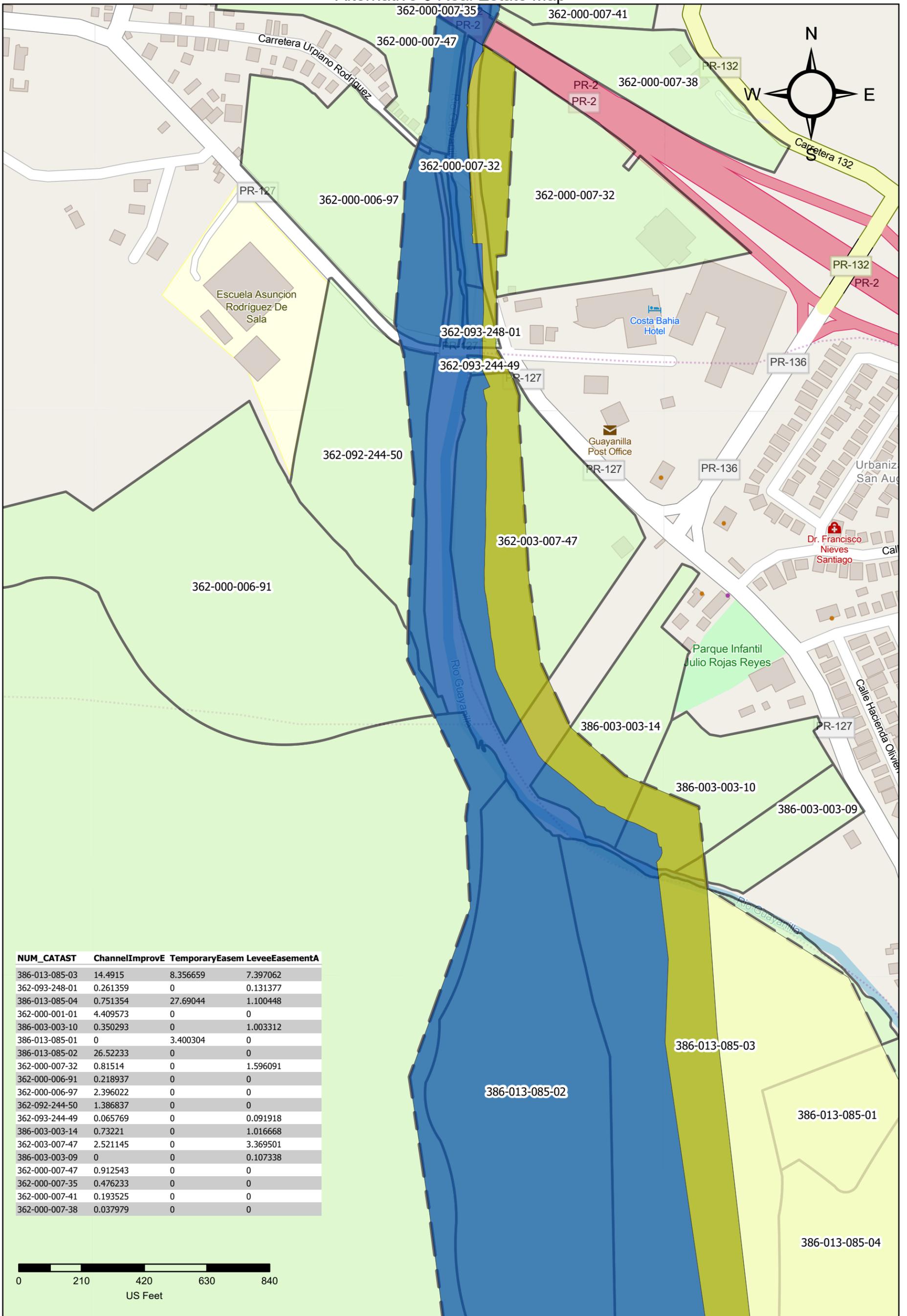
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362-000-001-01	4.409573	0	0
386-003-003-10	0.350293	0	1.003312
386-013-085-02	26.52233	0	0
362-000-007-32	0.81514	0	1.596091
362-000-006-91	0.218937	0	0
362-000-006-97	2.396022	0	0
362-092-244-50	1.386837	0	0
362-093-244-49	0.065769	0	0.091918
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362-003-007-47	2.521145	0	3.369501
386-003-003-09	0	0	0.107338
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362-000-007-38	0.037979	0	0
362-000-007-47	1.8824	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



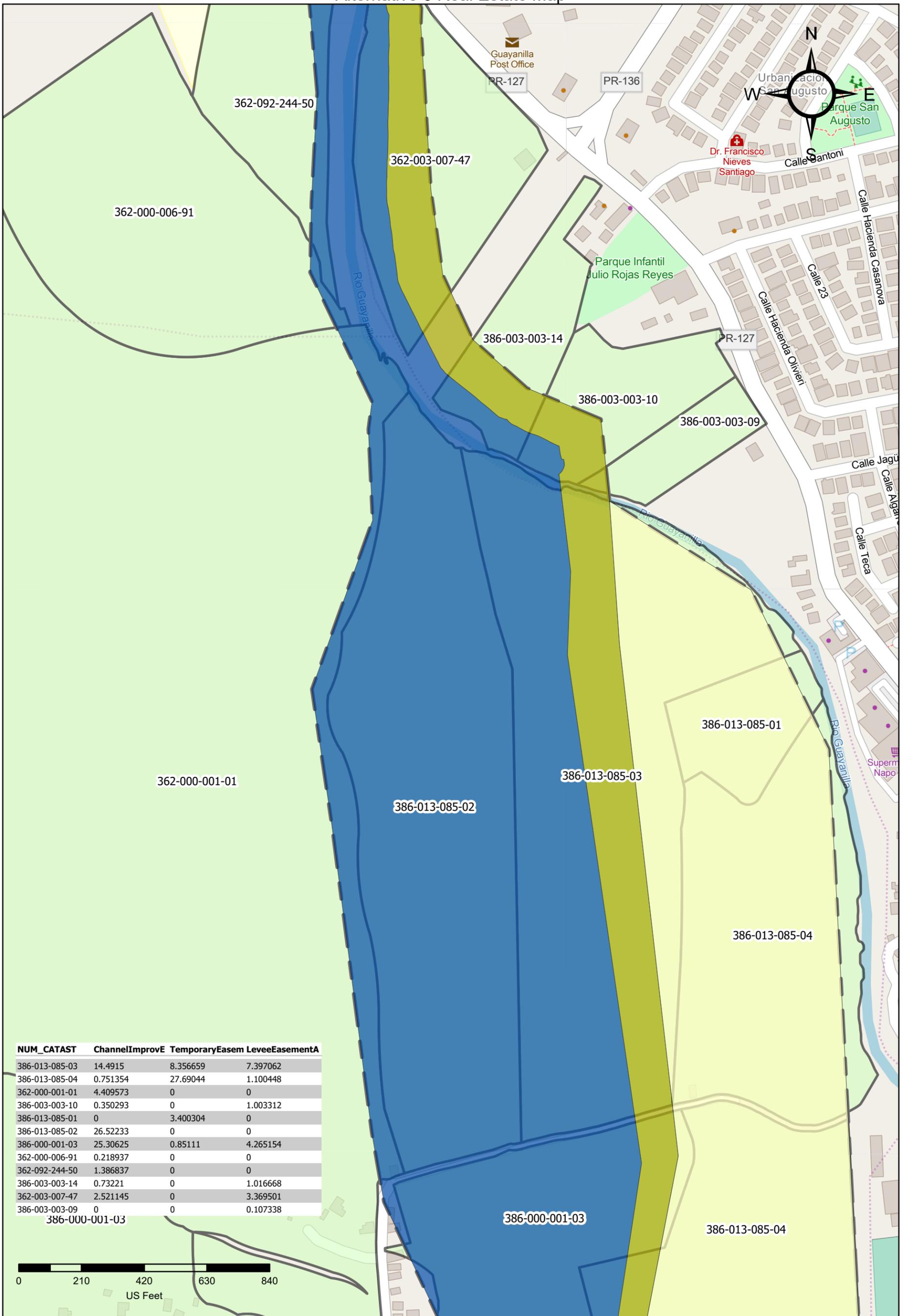
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386-013-085-04	0.751354	27.69044	1.100448
362-000-001-01	4.409573	0	0
386-003-003-10	0.350293	0	1.003312
386-013-085-01	0	3.400304	0
386-013-085-02	26.52233	0	0
362-000-007-32	0.81514	0	1.596091
362-000-006-91	0.218937	0	0
362-000-006-97	2.396022	0	0
362-092-244-50	1.386837	0	0
362-093-244-49	0.065769	0	0.091918
386-003-003-14	0.73221	0	1.016668
362-003-007-47	2.521145	0	3.369501
386-003-003-09	0	0	0.107338
362-000-007-47	0.912543	0	0
362-000-007-35	0.476233	0	0
362-000-007-41	0.193525	0	0
362-000-007-38	0.037979	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



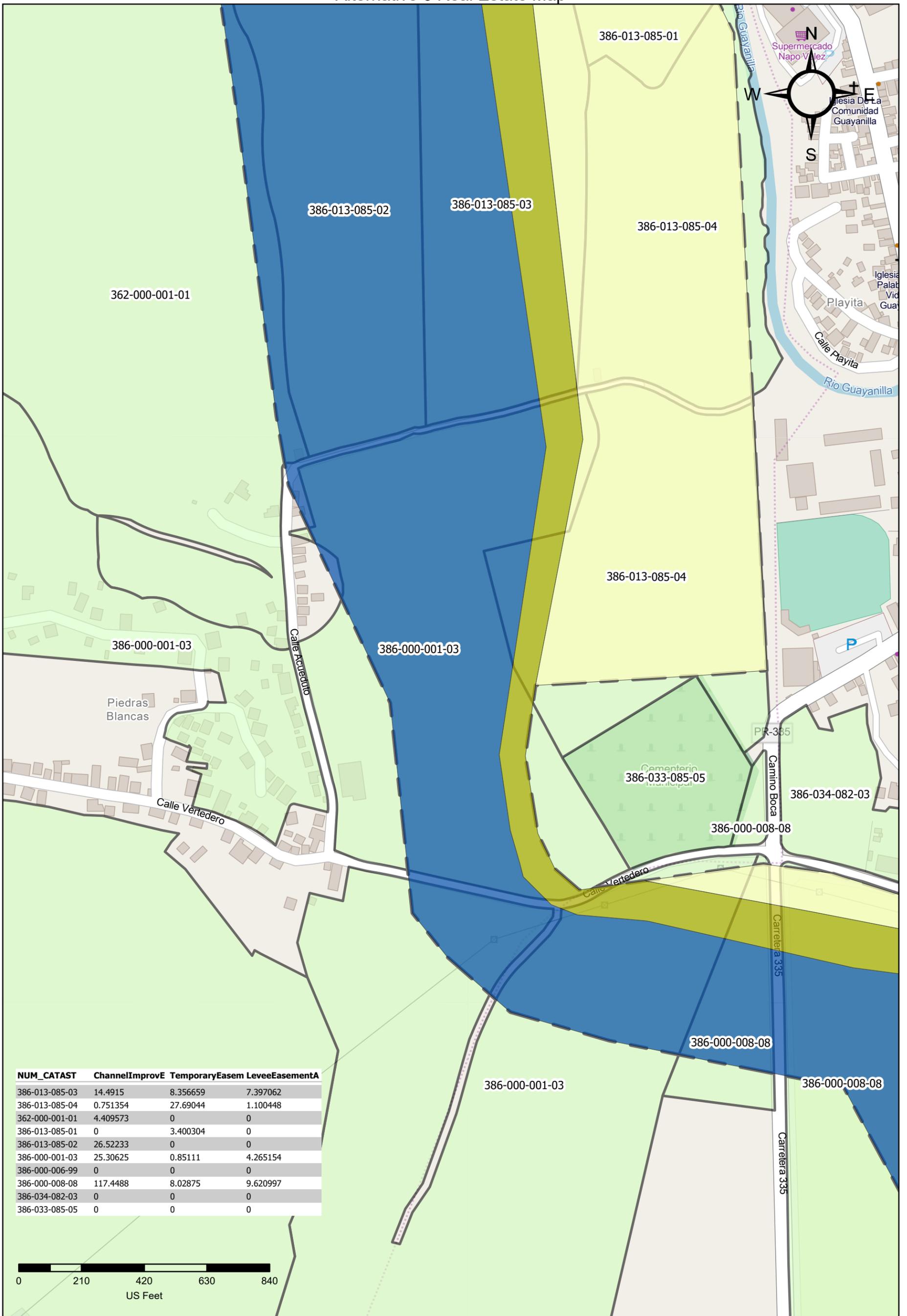
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362-000-001-01	4.409573	0	0
386-003-003-10	0.350293	0	1.003312
386-013-085-01	0	3.400304	0
386-013-085-02	26.52233	0	0
386-000-001-03	25.30625	0.85111	4.265154
362-000-006-91	0.218937	0	0
362-092-244-50	1.386837	0	0
386-003-003-14	0.73221	0	1.016668
362-003-007-47	2.521145	0	3.369501
386-003-003-09	0	0	0.107338
386-000-001-03			



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



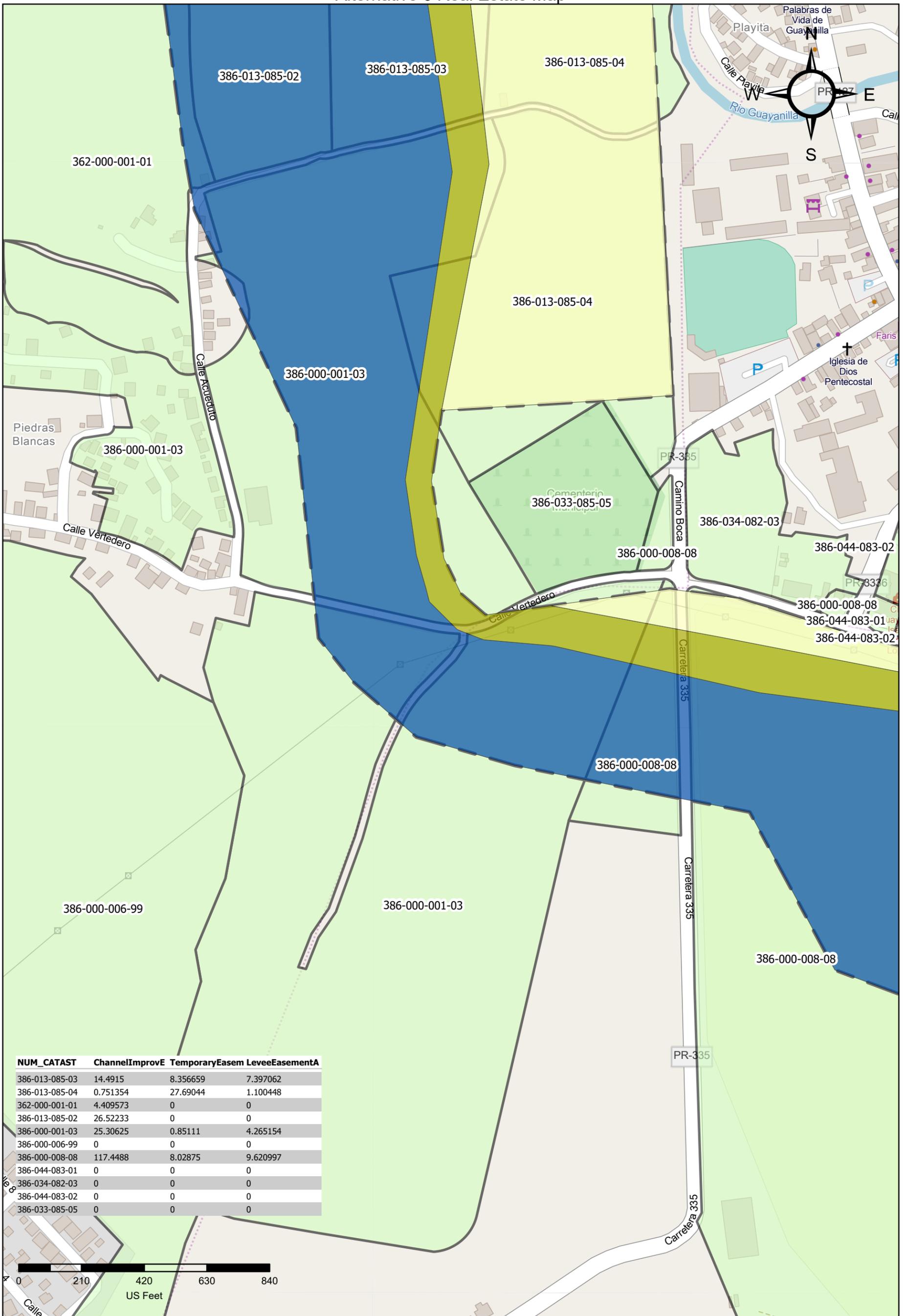
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-013-085-03	14.4915	8.356659	7.397062
386-013-085-04	0.751354	27.69044	1.100448
362-000-001-01	4.409573	0	0
386-013-085-01	0	3.400304	0
386-013-085-02	26.52233	0	0
386-000-001-03	25.30625	0.85111	4.265154
386-000-006-99	0	0	0
386-000-008-08	117.4488	8.02875	9.620997
386-034-082-03	0	0	0
386-033-085-05	0	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-013-085-03	14.4915	8.356659	7.397062
386-013-085-04	0.751354	27.69044	1.100448
362-000-001-01	4.409573	0	0
386-013-085-02	26.52233	0	0
386-000-001-03	25.30625	0.85111	4.265154
386-000-006-99	0	0	0
386-000-008-08	117.4488	8.02875	9.620997
386-044-083-01	0	0	0
386-034-082-03	0	0	0
386-044-083-02	0	0	0
386-033-085-05	0	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



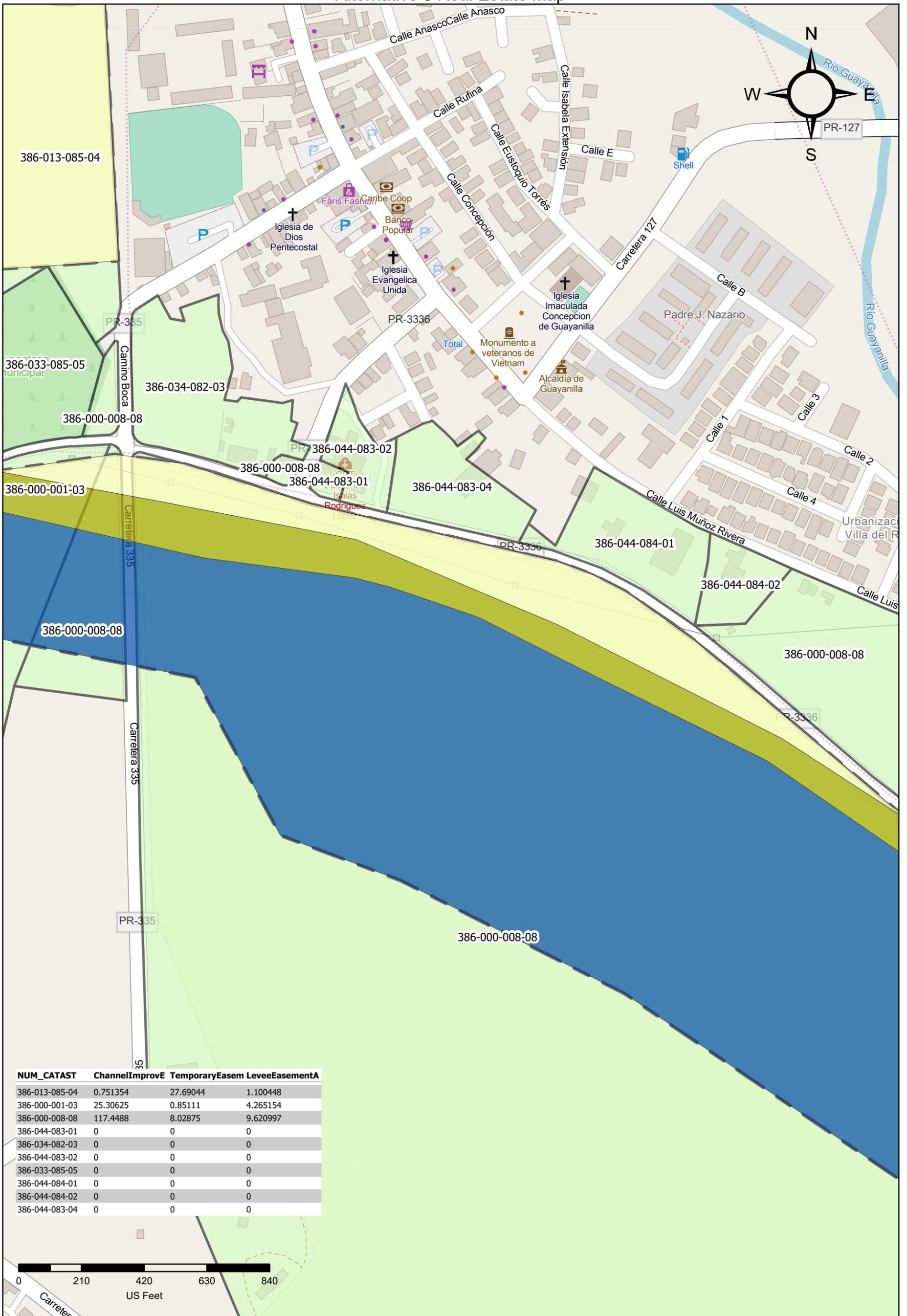
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-013-085-03	14.4915	8.356659	7.397062
386-013-085-04	0.751354	27.69044	1.100448
386-013-085-02	26.52233	0	0
386-000-001-03	25.30625	0.85111	4.265154
386-000-008-08	117.4488	8.02875	9.620997
386-044-083-01	0	0	0
386-034-082-03	0	0	0
386-044-083-02	0	0	0
386-033-085-05	0	0	0
386-044-084-01	0	0	0
386-044-083-04	0	0	0



Legend

- Parcels
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Alternative 6 Real Estate Map



NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-013-085-04	0.751354	27.69044	1.100448
386-000-001-03	25.30625	0.85111	4.265154
386-000-008-08	117.4488	8.02875	9.620997
386-044-083-01	0	0	0
386-034-082-03	0	0	0
386-044-083-02	0	0	0
386-033-085-05	0	0	0
386-044-084-01	0	0	0
386-044-084-02	0	0	0
386-044-083-04	0	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- Work Limits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



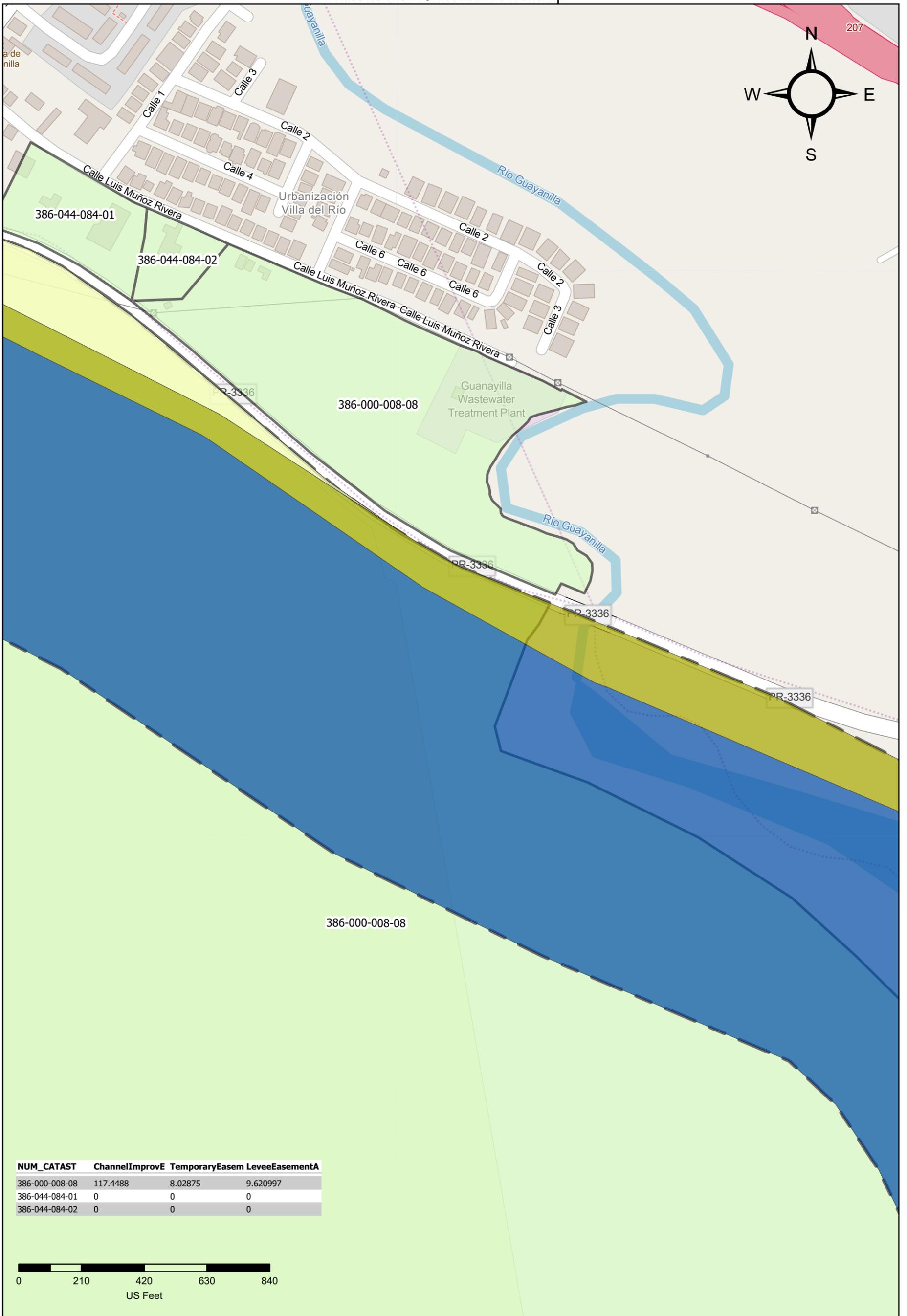
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-008-08	117.4488	8.02875	9.620997
386-044-083-01	0	0	0
386-034-082-03	0	0	0
386-044-083-02	0	0	0
386-044-084-01	0	0	0
386-044-084-02	0	0	0
386-044-083-04	0	0	0



Legend

- Parcels
- Channel Improvement Easement
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- ROW
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Alternative 6 Real Estate Map



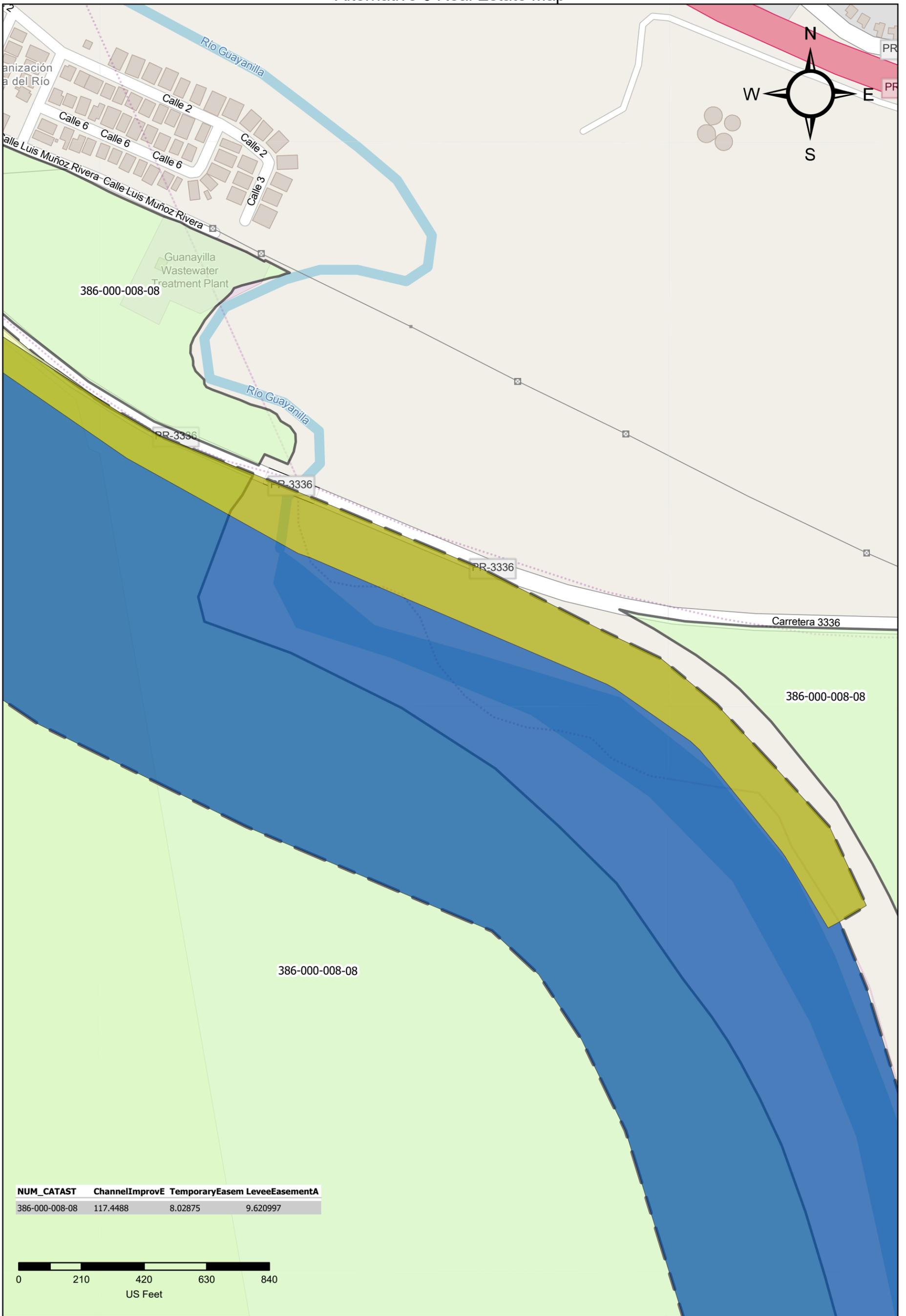
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386-000-008-08	117.4488	8.02875	9.620997
386-044-084-01	0	0	0
386-044-084-02	0	0	0



Legend

- Parcels
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Alternative 6 Real Estate Map



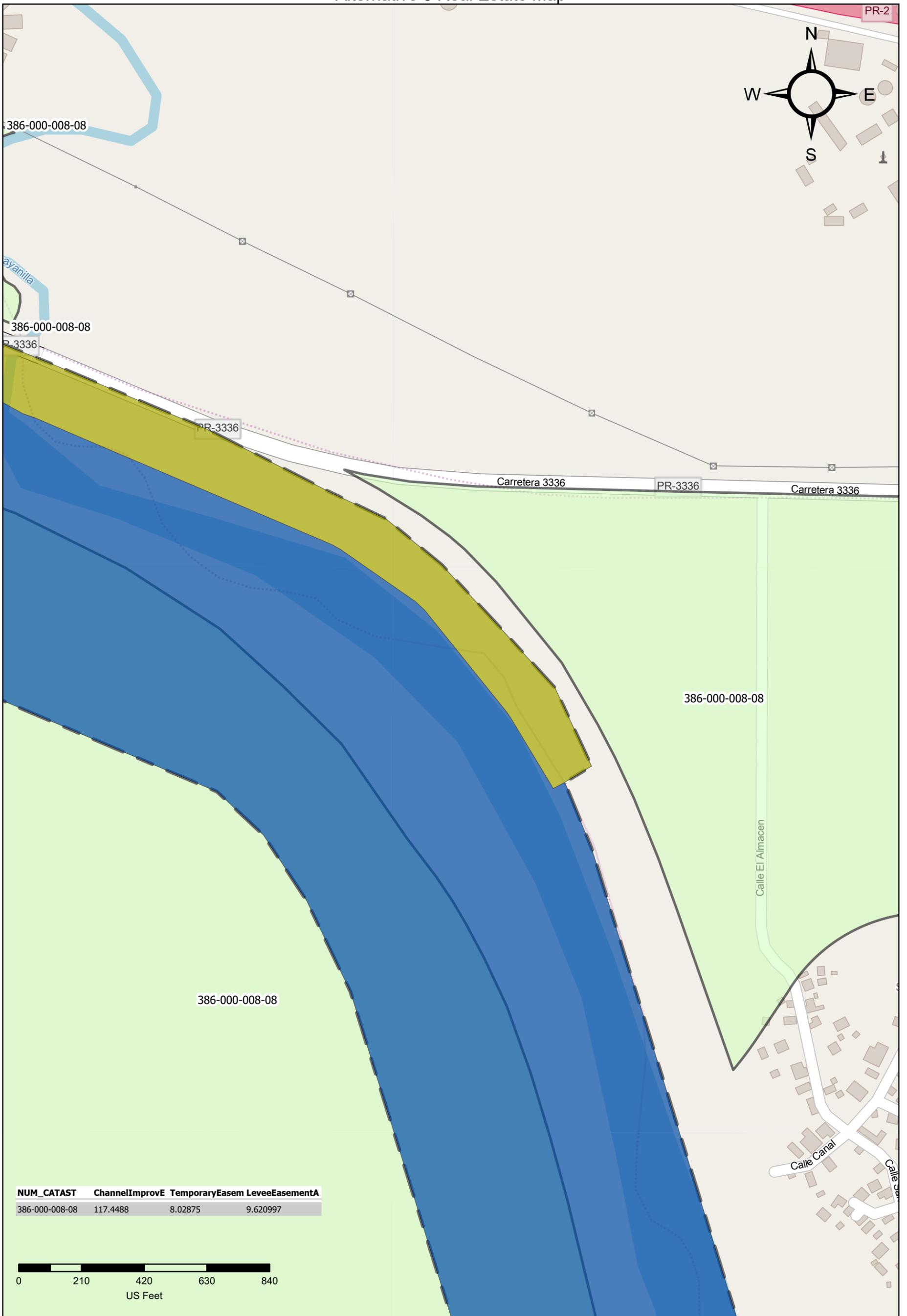
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-008-08	117.4488	8.02875	9.620997



Legend

- Parcels
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Alternative 6 Real Estate Map



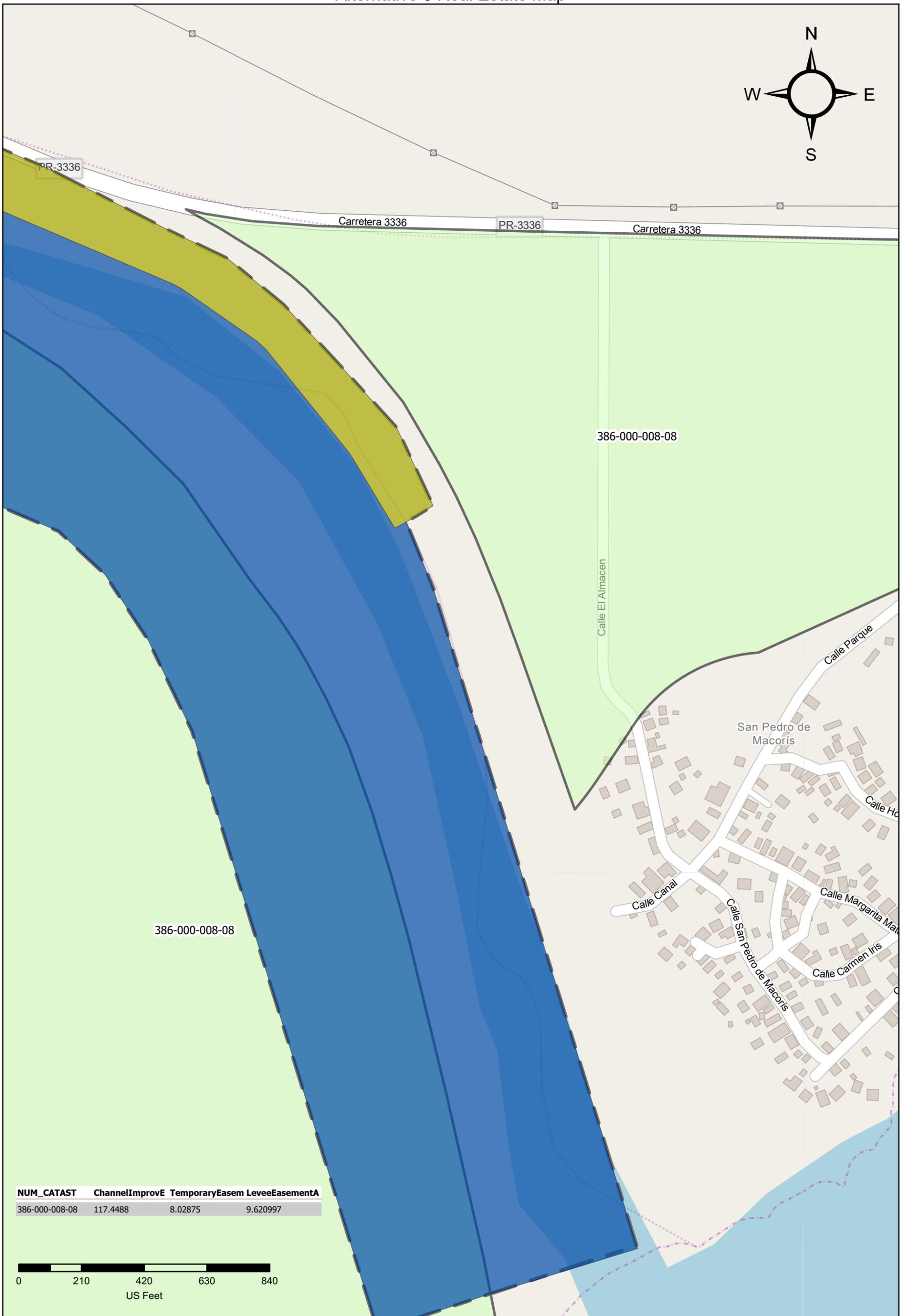
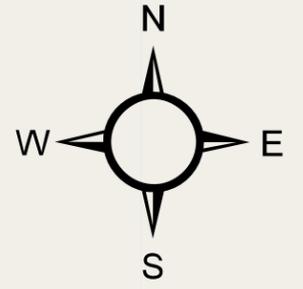
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-008-08	117.4488	8.02875	9.620997



Legend

- Parcels
- Channel Improvement Easement
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- ROW
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Alternative 6 Real Estate Map



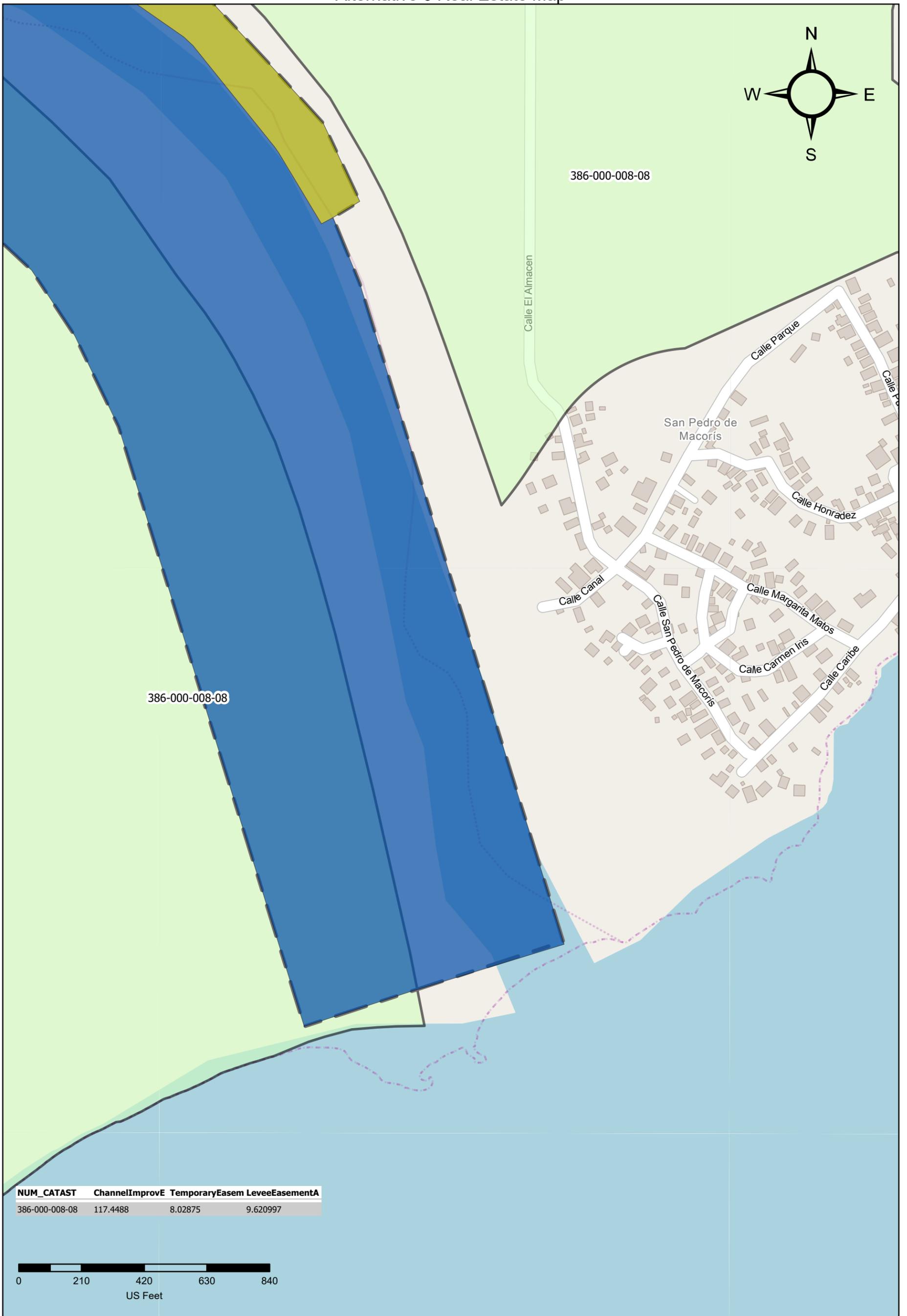
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-008-08	117.4488	8.02875	9.620997



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
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Alternative 6 Real Estate Map



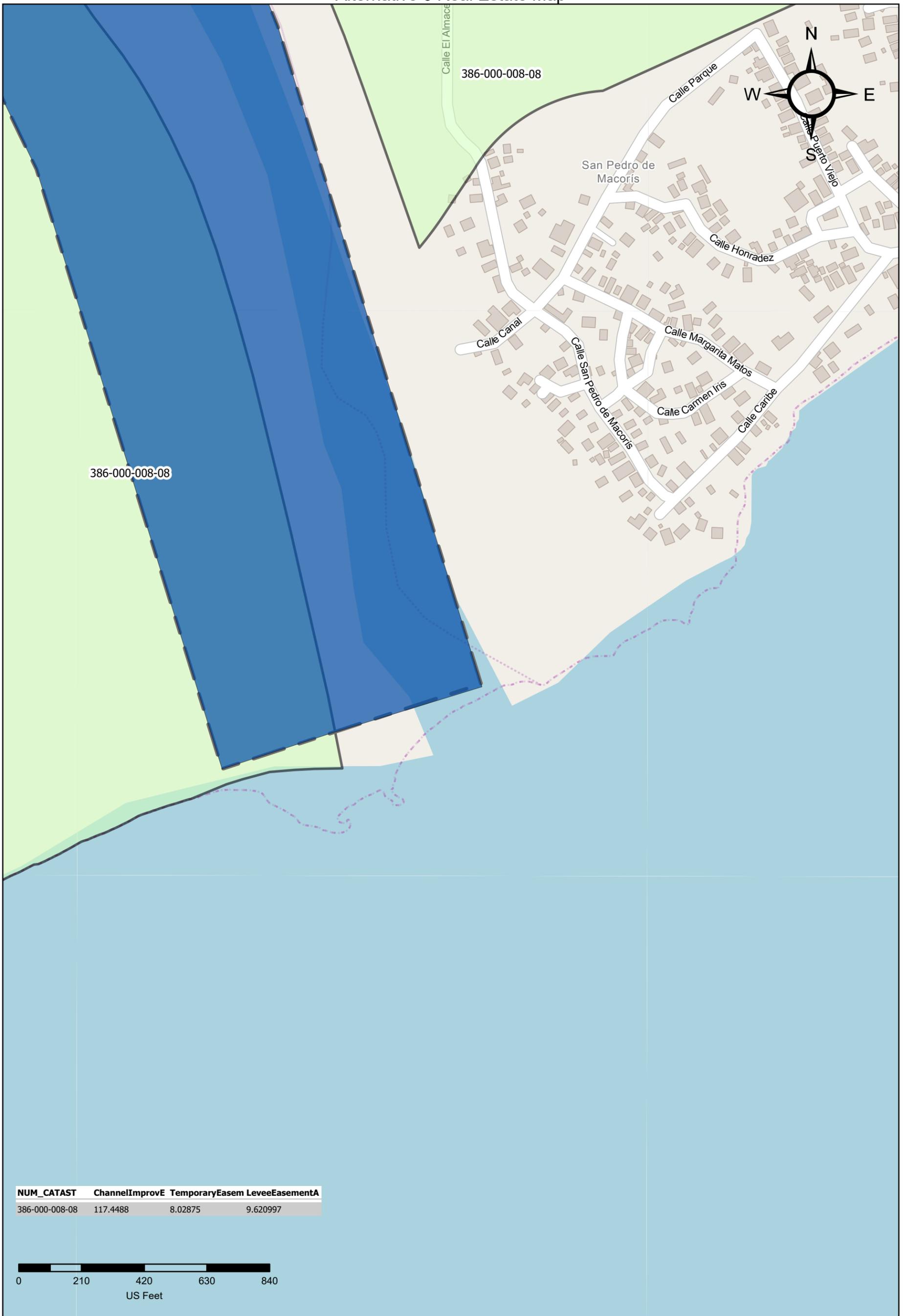
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-008-08	117.4488	8.02875	9.620997



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



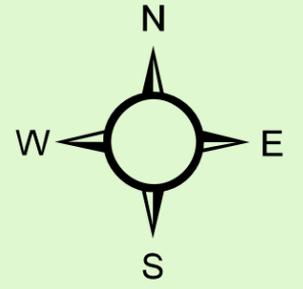
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-008-08	117.4488	8.02875	9.620997



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

Alternative 6 Real Estate Map



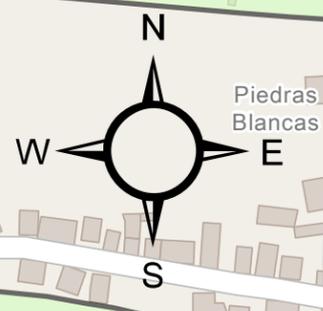
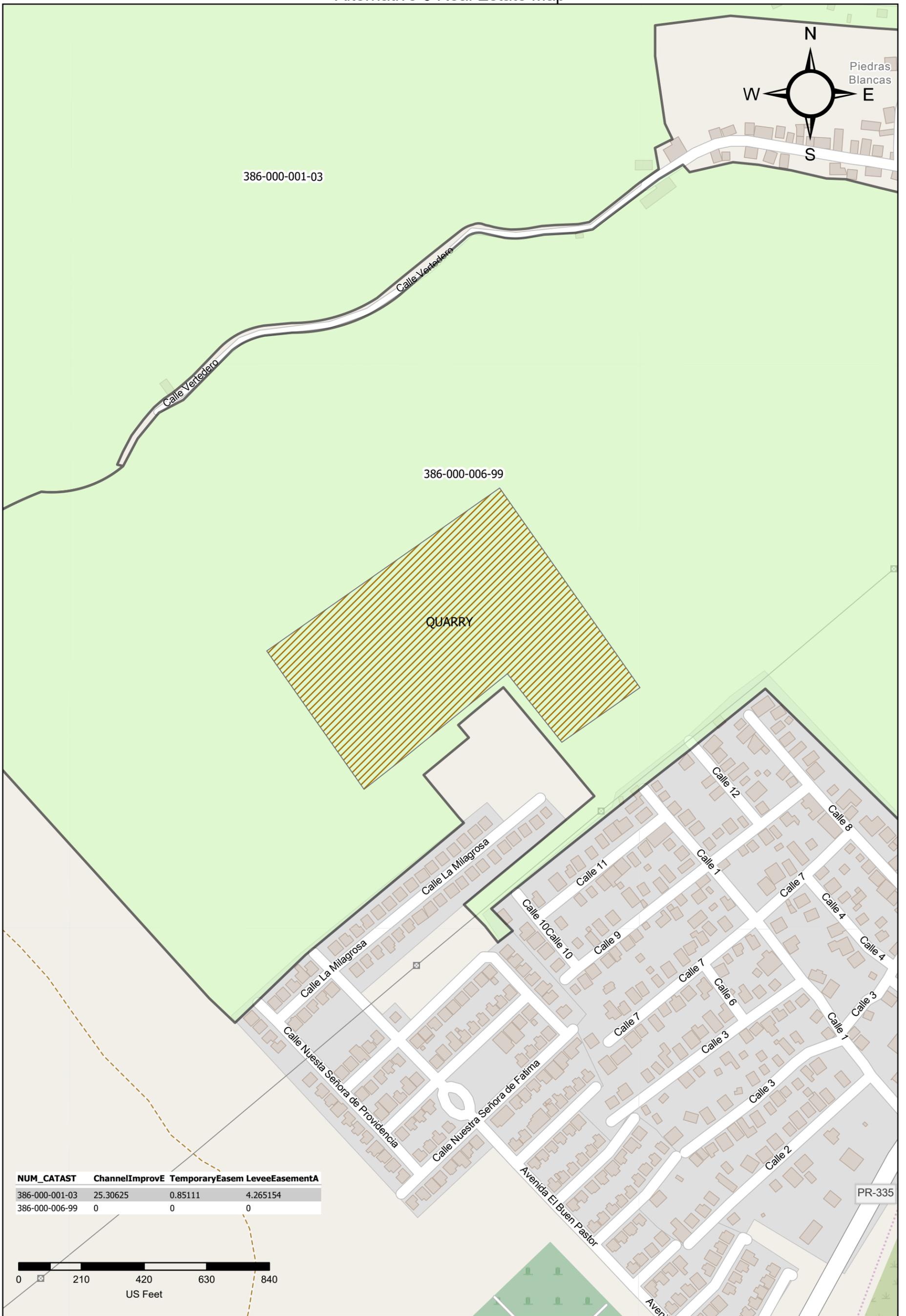
NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
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386-000-007-15	0	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- ROW
- Levee Easement
- Quarry
- WorkLimits

Alternative 6 Real Estate Map



NUM_CATAST	ChannelImprovE	TemporaryEasem	LeveeEasementA
386-000-001-03	25.30625	0.85111	4.265154
386-000-006-99	0	0	0



Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry

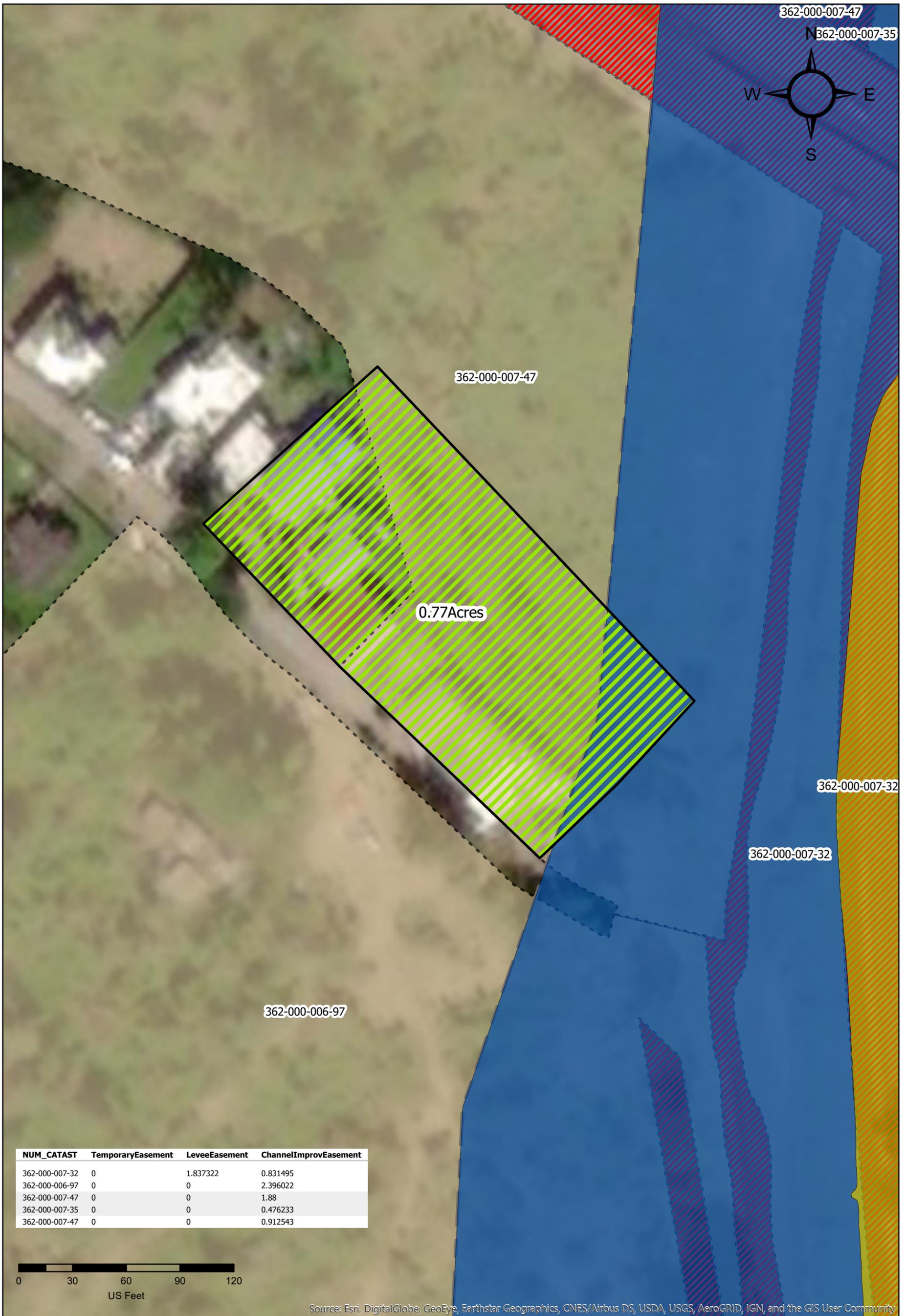
Alternative 6 Real Estate Map



U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT

Legend

- Parcels
- Channel Improvement Easement
- Temporary Easement
- WorkLimits
- ROW
- Levee Easement
- Quarry



NUM_CATAST	TemporaryEasement	LeveeEasement	ChannelImprovEasement
362-000-007-32	0	1.837322	0.831495
362-000-006-97	0	0	2.396022
362-000-007-47	0	0	1.88
362-000-007-35	0	0	0.476233
362-000-007-47	0	0	0.912543



Legend

- Work Limits
- Parcels
- Channel Improvement Easement
- Temporary Easement
- ROW
- Parcels
- Levee Easement
- Home -Buyout