



Hunt Highway

CELESTE PEMBERTON, CFM, CPM | PINAL COUNTY

CARLOS SANCHEZ SORIA, PE | T.Y. LIN INTERNATIONAL



Agenda

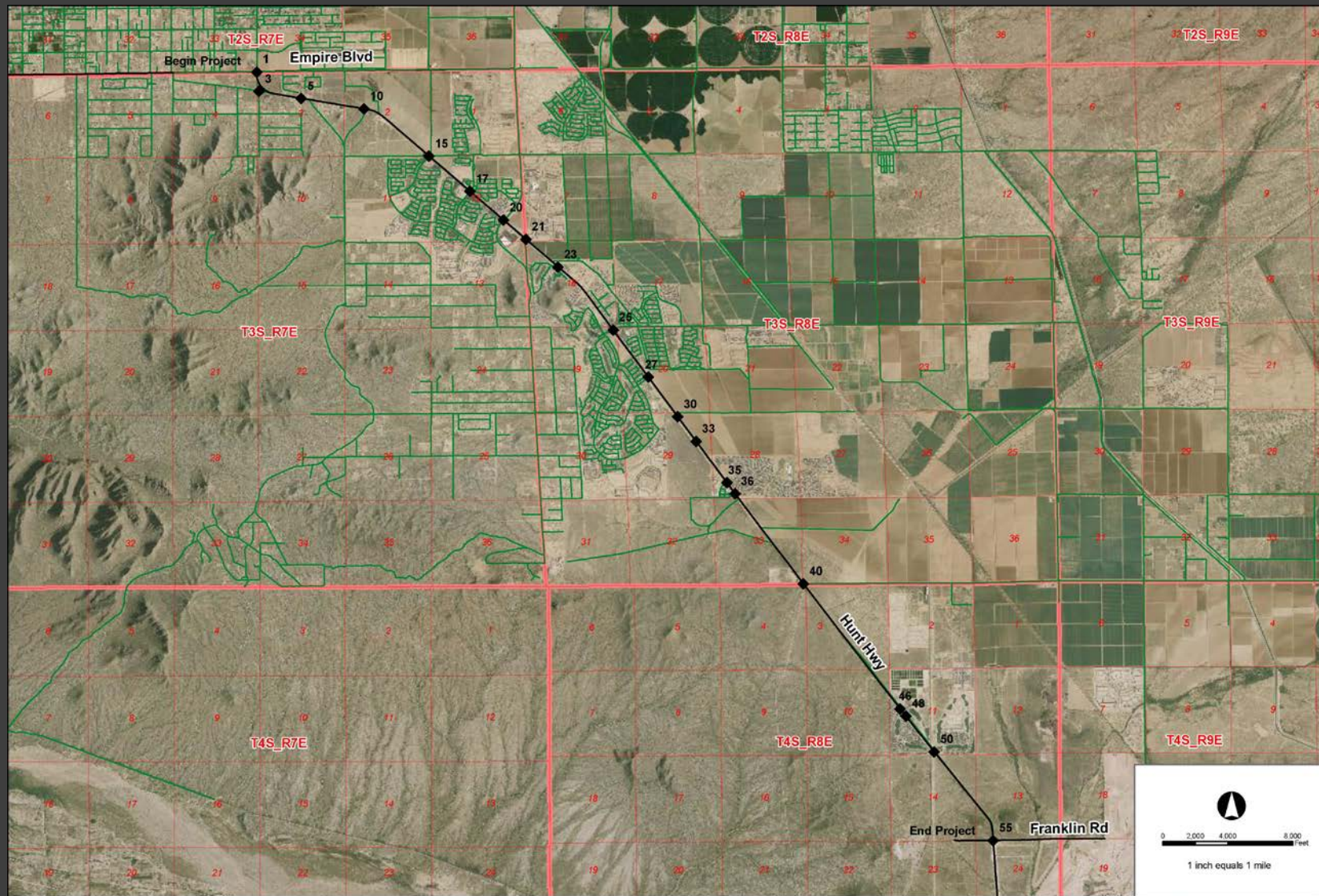
- Design Concept Report
- Phase 1
- Phase 2
- Phase 3
- Phase 4
- Phase 5
- Questions



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Design Concept Report

- 12.8 miles along Hunt Highway (Empire Blvd to Franklin Road)
- Explosive Growth 2003-2008
 - 5 Major Master Planned Communities
- Existing 2-lane facility, some areas of new development widened to 5-lanes
- 20,000+ on average vehicles per day
- Hunt Hwy is Pinal County's #1 Transportation Priority



HUNT HIGHWAY



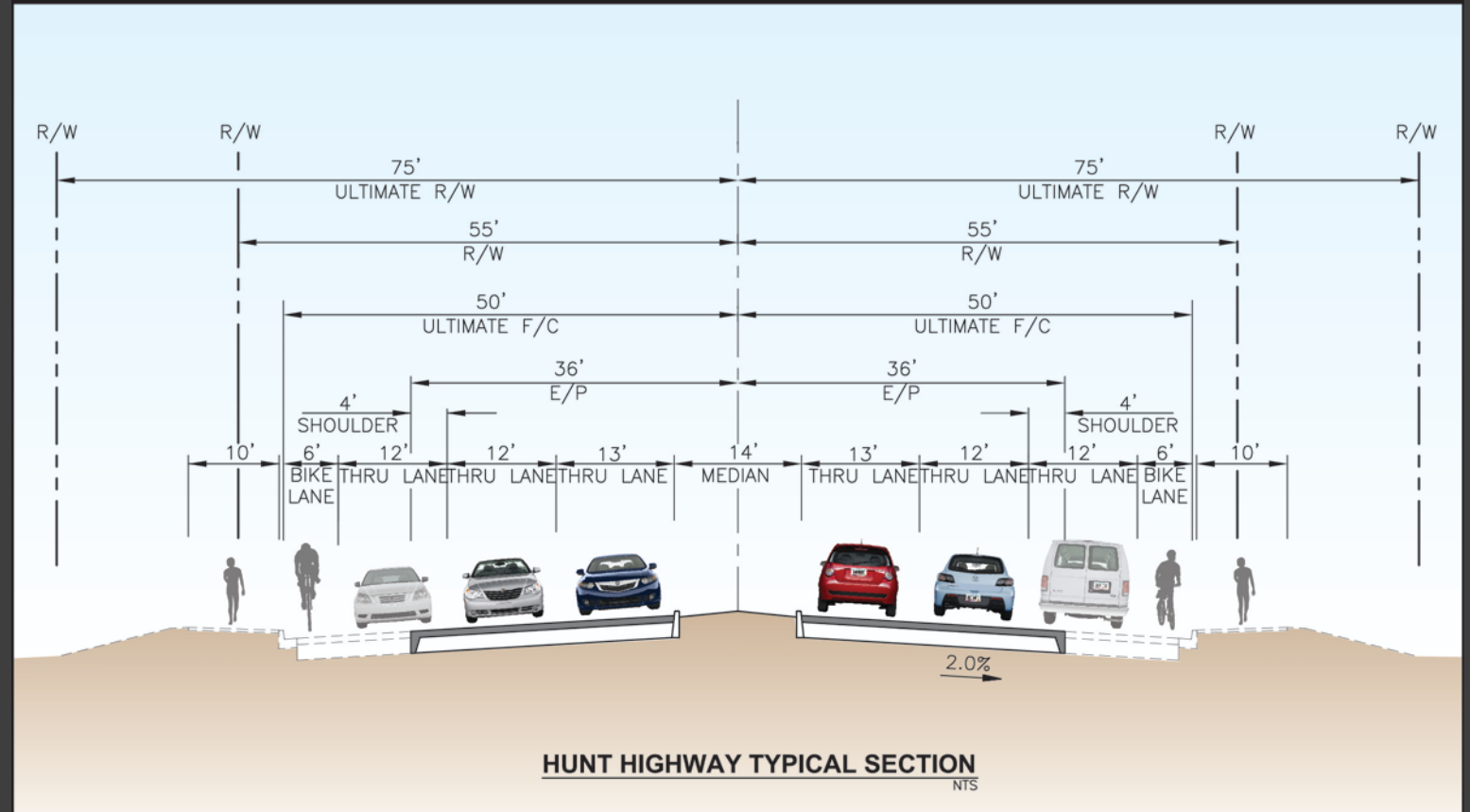
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Design Concept Report

- 7-lane Ultimate Section
- 5-lane Interim Section

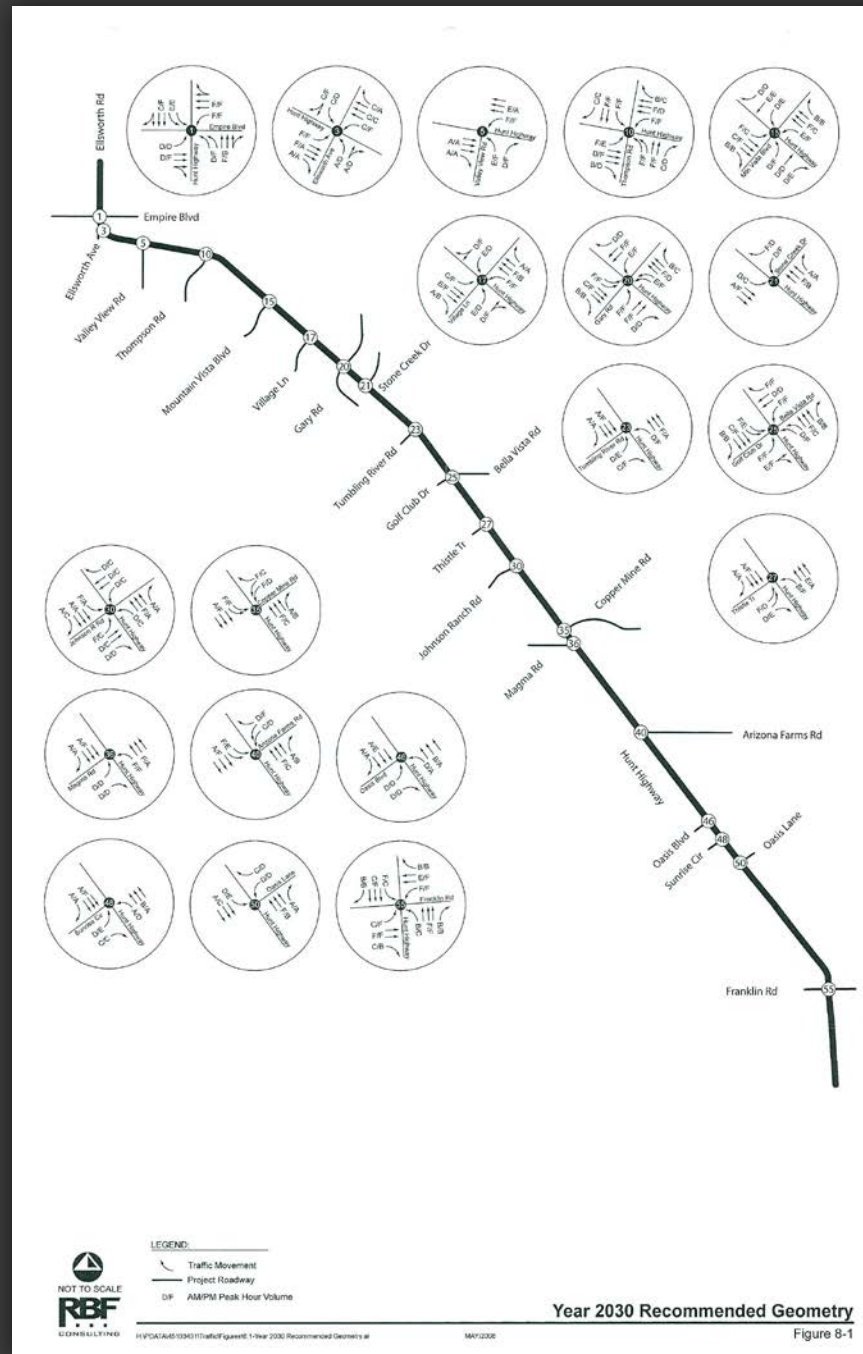




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Design Concept Report (Traffic)

- Intersections
- Existing & Projected Volumes



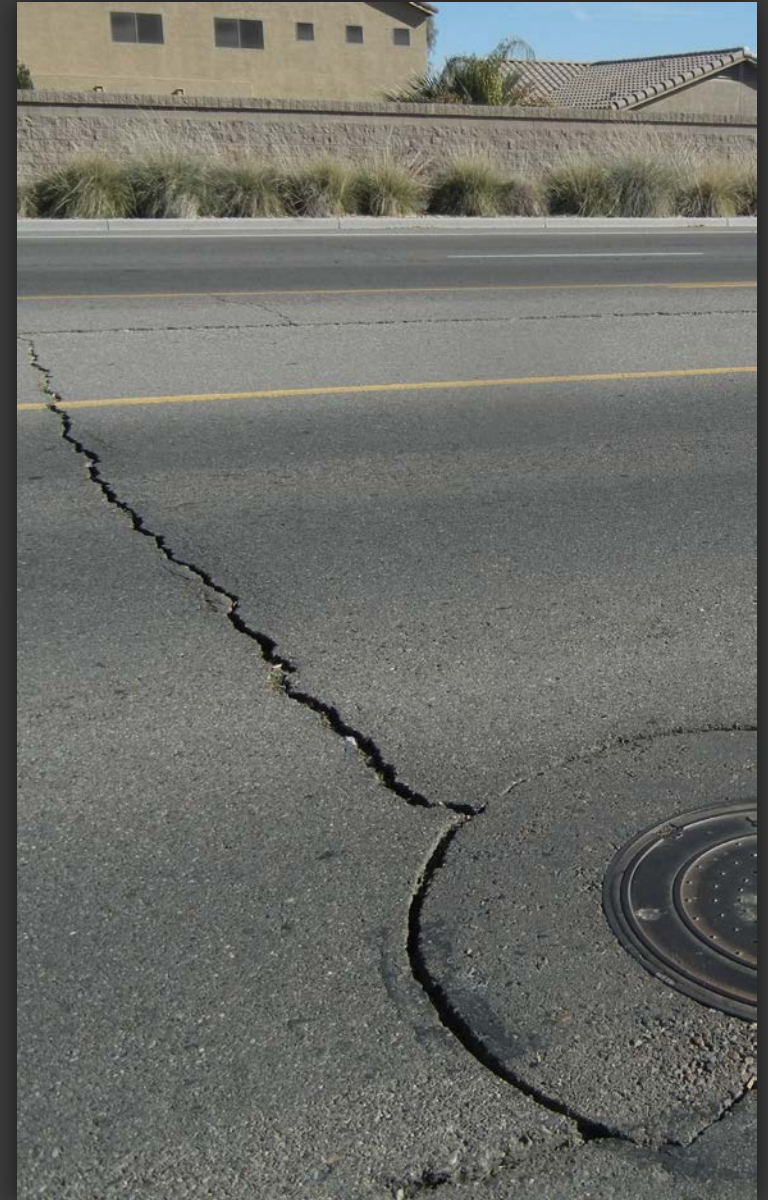
Intersection	Movement	Projected 2030 Volume		Calculated Storage Length		Recommendations		Comments
		AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	Number of Lanes	Storage Length (ft)	
Hunt Highway/ Gary Rd	EB Left	510	384	225	175	2	250	Dual left-turns are recommended.
	WB Left	234	116	100	50	2	200	Dual left-turns are recommended.
	NB Left	294	146	250	125	1	250	
	SB Left	64	277	50	250	1	250	
Hunt Highway/ Stone Creek Dr	EB Left	40	117	50	100	1	160	
	SB Left	29	200	25	175	1	175	
Hunt Highway/ Tumbling River Rd	WB Left	105	109	100	100	1	160	
	NB Left	189	140	175	125	1	160	
Hunt Highway/ Golf Club Dr	EB Left	237	297	100	125	2	250	Dual left-turns are recommended.
	WB Left	368	265	175	125	2	250	Dual left-turns are recommended.
	NB Left	241	74	200	75	1	200	
	SB Left	200	305	175	250	1	250	
Hunt Highway/ Thistle Dr	WB Left	80	56	75	50	1	160	
	NB Left	470	158	200	75	2	250	Dual left-turns are recommended.
Hunt Highway/ Johnson Ranch Rd	EB Left	54	0	50	0	1	160	
	WB Left	140	59	125	75	1	160	
	NB Left	298	161	250	150	1	250	
	SB Left	62	57	50	50	1	160	
Hunt Highway/ Copper Mine Rd	EB Left	214	614	100	250	2	250	Dual left-turns are recommended.
	SB Left	374	306	175	150	2	250	Dual left-turns are recommended.



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Design Concept Report (Pavement)

- Existing Conditions





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Design Concept Report (Drainage)

- Preliminary Analysis
- Size and Locations for Culvert Crossings



Table 9-6: Drainage Structures along Hunt Highway

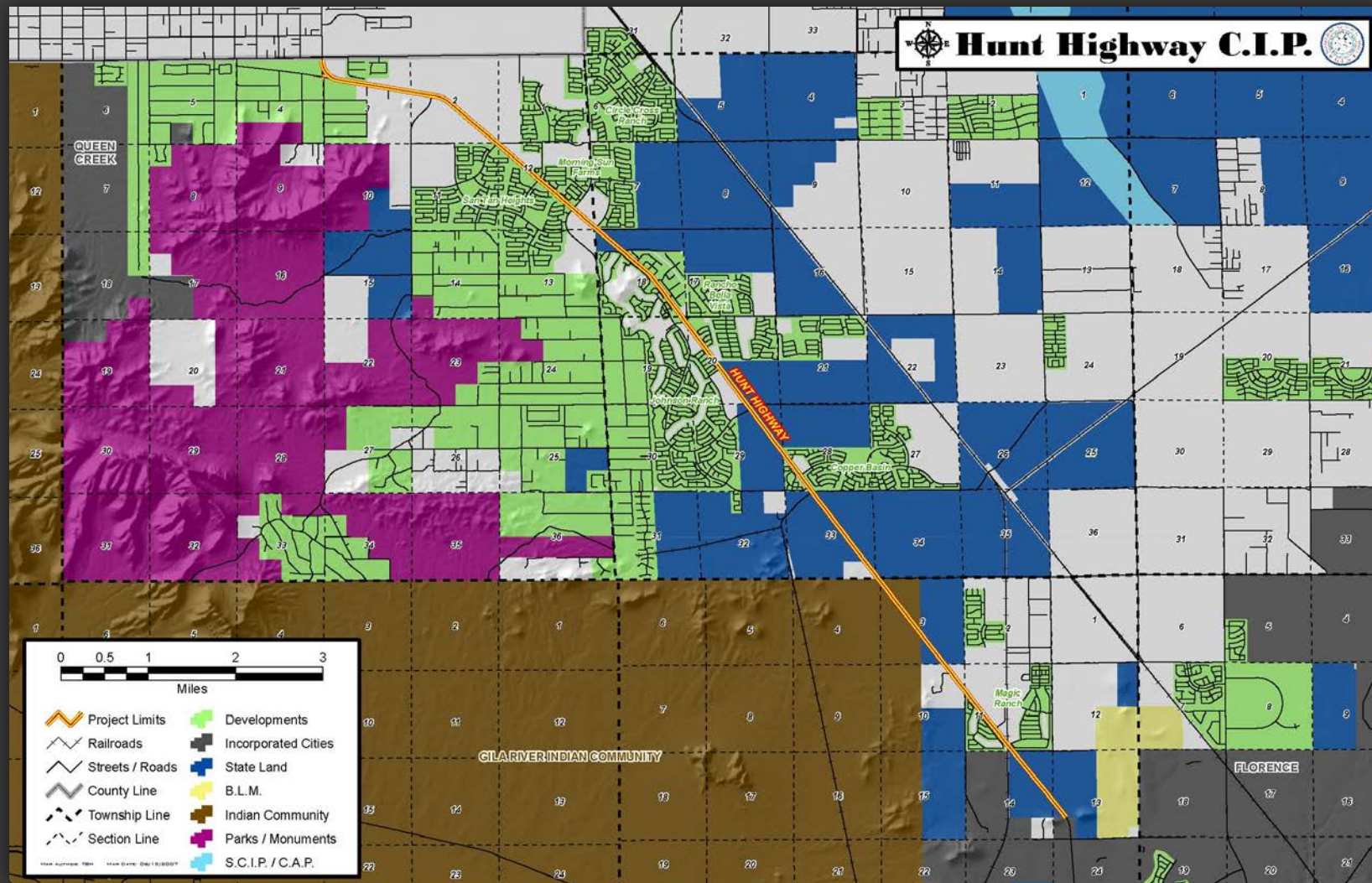
Location	Culvert No.	Quantity	Size	Type	New/Extension
Sta 217+00	15	4	36"	Pipe	New
Sta 237+50	14	2-Barrel	8' by 4'	Box Culvert	New
Sta 271+50	-	3-Barrel	8' by 3'	Box Culvert	Extension
Sta 304+50	-	3-Barrel	10' by 3'	Box Culvert	Extension
Sta 324+50	-	1	36"	Pipe	Extension
Sta 352+00	-	6-Barrel	8' by 4'	Box Culvert	Extension
Sta 380+50	-	2-Barrel	8' by 4'	Box Culvert	Extension
Sta 422+50	-	1	54"	Pipe	Extension
Sta 477+50	13	3-Barrel	8' by 4'	Box Culvert	New
Sta 512+00	12	3-Barrel	8' by 4'	Box Culvert	New
Sta 533+00	-	1	54"	Pipe	Extension
Sta 544+50	11	6-Barrel	8' by 4'	Box Culvert	New
Sta 565+00	10	3-Barrel	8' by 4'	Box Culvert	New
Sta 573+50	9	3-Barrel	8' by 4'	Box Culvert	New
Sta 597+50	8	3-Barrel	8' by 4'	Box Culvert	New
Sta 636+00	7	1-Barrel	8' by 4'	Box Culvert	New
Sta 653+50	6	2	36"	Pipe	New
Sta 659+50	5	3	36"	Pipe	New
Sta 662+00	4	1-Barrel	10' by 4'	Box Culvert	New
Sta 732+00	3	3-Barrel	8' by 4'	Box Culvert	New
Sta 748+50	2	3-Barrel	8' by 4'	Box Culvert	New
Sta 774+50	1	1-Barrel	8' by 4'	Box Culvert	New



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Design Concept Report (Right-of-Way)

- Private
- Arizona State Land Department
- United States Bureau of Reclamation





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Design Concept Report (Utilities)

- Power (SRP Transmission and Distribution, WAPA)
- Johnson Utilities (Water, Sewer, Reclaimed Water)
- Telecommunication (Cox, Century Link and Mediacom)
- City of Mesa Gas
- New Magma Irrigation and Drainage District



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Design Concept Report (Phasing)

- 6 Phases
- Construction Cost of \$68M
(Interim 5-lane section)

Table ES-1: Hunt Highway Widening Programmed Phasing and Construction Costs

Phase No.	Limits of Phase	Interim Construction Cost	Ultimate Construction Cost
1	Empire Boulevard to 1,200' East of Thompson Road	\$13.4 Million (Phase 1 CIP Engineer's Estimate)	\$4,491,043
2	1,200' East of Thompson Road to Gary Road	\$4,142,646	\$7,828,144
3	Gary Road to Bella Vista Road / Golf Club Drive	\$8,583,569	\$6,509,163
4	Bella Vista Road / Golf Club Drive to East Magma Road	\$11,496,270	\$7,911,642
5	East Magma Road to West of Union Pacific Railroad Crossing	\$21,061,195	\$9,782,070
6	West of Union Pacific Railroad Crossing to Franklin Road	\$9,828,228	\$3,578,942
PROJECT TOTALS:		\$68,511,908	\$40,101,004



HUNT HIGHWAY

Hunt Highway Phase 1

Empire Boulevard to Thompson Road

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Phase 1

Empire Blvd to Thompson Rd

- Budget & Funding Source
 - \$7.5 Million
 - Federal Funds
- Project Status
 - Construction Completed on August 2014





Phase 1

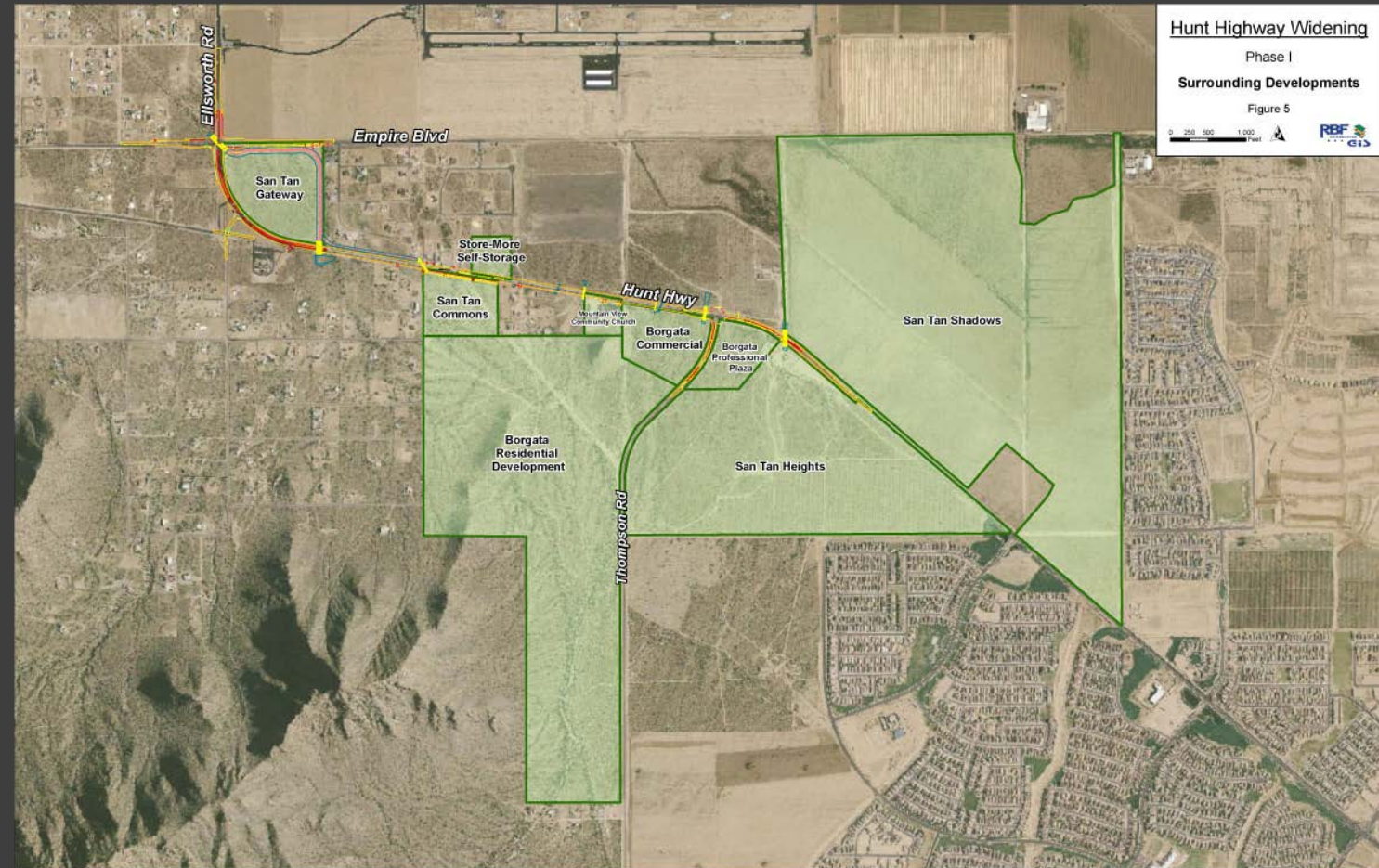
Empire Blvd to Thompson Rd

- Scope of Work
 - 5-lane, 2 Through, Median, 4.5' Paved Shoulders
 - Drainage Channel Design (Sonoqui Wash)
 - Traffic Signal at Thompson Road



Phase 1 Empire Blvd to Thompson Rd

- Project Challenges
 - Right-of-Way
 - 36 Properties
 - 13 Acres of Right-of-Way Acquisition
 - 8.5 Acres of Drainage Easements
 - Meetings with Each Property Owner





Phase 1

Empire Blvd to Thompson Rd

■ Project Challenges

■ Drainage

■ Regional Drainage Solution Balancing:

- Proposed Commercial and Residential Development
- Existing Drainage Conditions

■ Empire Blvd Box Culvert

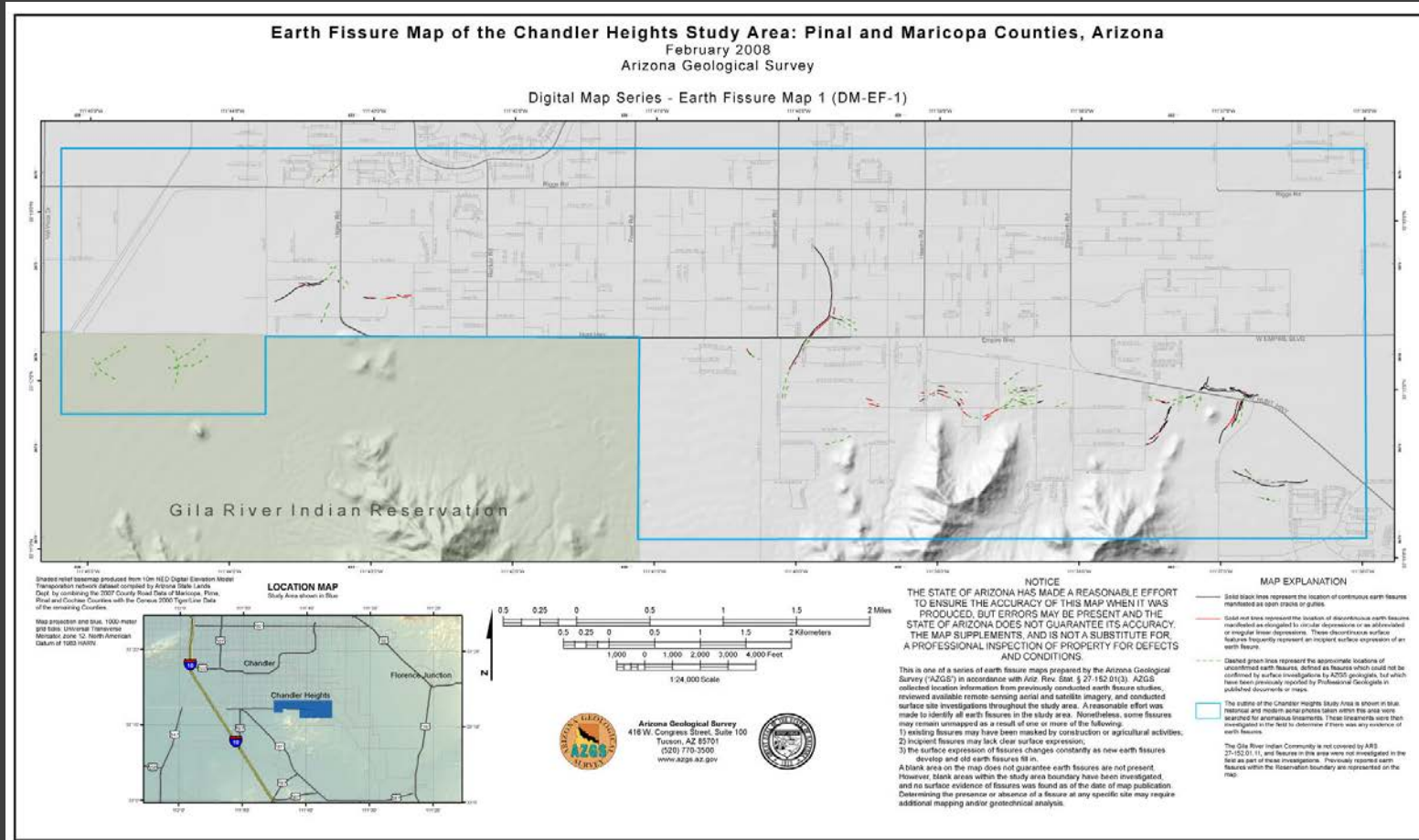
- Prone to heavy sediment deposits
- Downstream Sonoqui Wash not well defined during design



Phase 1

Empire Blvd to Thompson Rd

- Project Challenges
 - Earth Fissures
 - Mapping
 - Mitigation





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Phase 1 Empire Blvd to Thompson Rd





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Phase 1 Empire Blvd to Thompson Rd





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Phase 1 Empire Blvd to Thompson Rd





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Phase 1 Empire Blvd to Thompson Rd



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Phase 1 Empire Blvd to Thompson Rd





HUNT HIGHWAY

Hunt Highway Phase 2

Thompson Road to Gary Road


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Phase 2

Thompson Rd to Gary Rd

- Budget & Funding Source
 - \$5.5 Million
 - Transportation Excise Fund(half cent gas tax)
- Project Status
 - Construction Substantial Completion - September 2015
- Project Schedule
 - Design (18 months)
 - Bid Advertisement - August 2014
 - Construction NTP - December 2014 (9 months)



HUNT HIGHWAY PHASE 2

Fact Sheet

Project No: 6621166


Project Location: Thompson Road to Gary Road

Project Length: Project Length: 1.92 Miles

Proposed Improvements: 4 Lanes with paint median, tight turn Lanes at Mt Vista Blvd & Village Lane, traffic signal at Village Lane, 2 box culverts, improve Gary Rd intersection.

Funding Commitment: \$5,500,000

Status: Under Construction - Substantial Completion



Acquisitions:


Parcel	Type	Status
509-02-026-0	DE / TCE	Complete
509-02-063-0	TCE	Complete
509-03-003-R	ROW	Complete
509-02-027-0	ROW / DE	Complete
509-94-520-C	TCE	Complete
509-02-926-0	TCE / DE / ROE	Complete
509-02-001-P	ROW / TCE / ROE	Complete
509-02-214-A	DE	Complete
509-02-062-C	TCE	Complete

Utilities:

Owner	Conflicts	Resolved	Status
Century Link	Yes	Yes	Relocated
City of Mesa Gas	No	Yes	Relocated
Cox Communications	Yes	Yes	Relocated
Johnson Utilities	Yes	Yes	Relocated
NMIDD	Yes	Yes	Approved
Mediacom	Yes	Yes	Relocated
SRP Distribution	No		
SRP Transmission	No		
SRP Line Asset Management	No		

Construction Cost (Est.): \$4,965,000

Project Schedule:



September 2015



Phase 2

Thompson Rd to Gary Rd

■ Scope of Work

- 5-lane Section
 - Widening
 - Mill & Overlay

- Two box Culvert Drainage Crossings
- New Traffic Signal at Village Lane
- Dedicated Right Turn Lanes





Phase 2

Thompson Rd to Gary Rd

■ Innovation

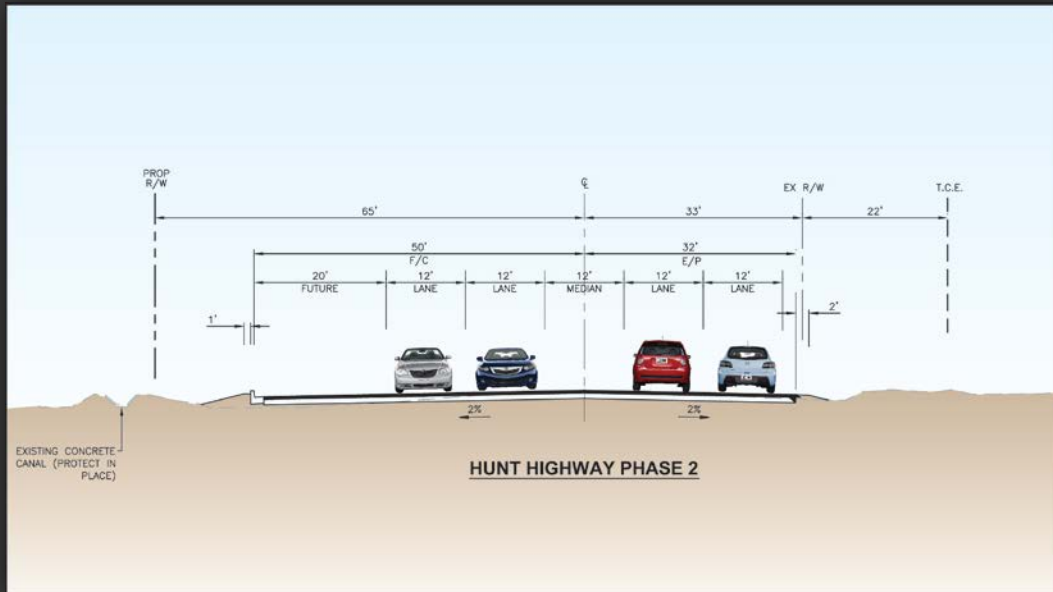
■ TriAx reinforced pavement section

- Reduced AC and ABC
- \$180k+ Savings
- Higher Performance



Phase 2 Thompson Rd to Gary Rd

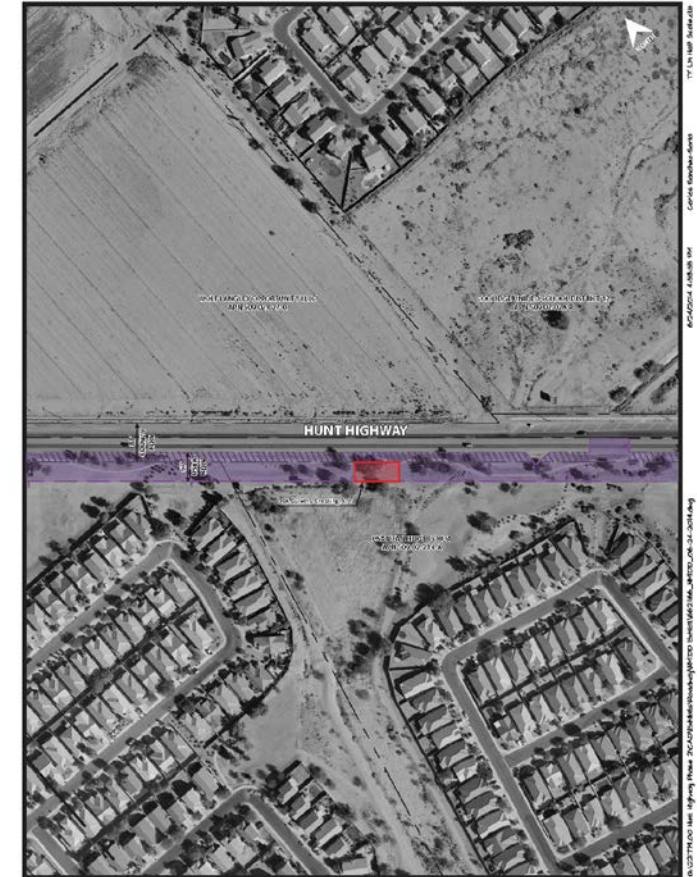
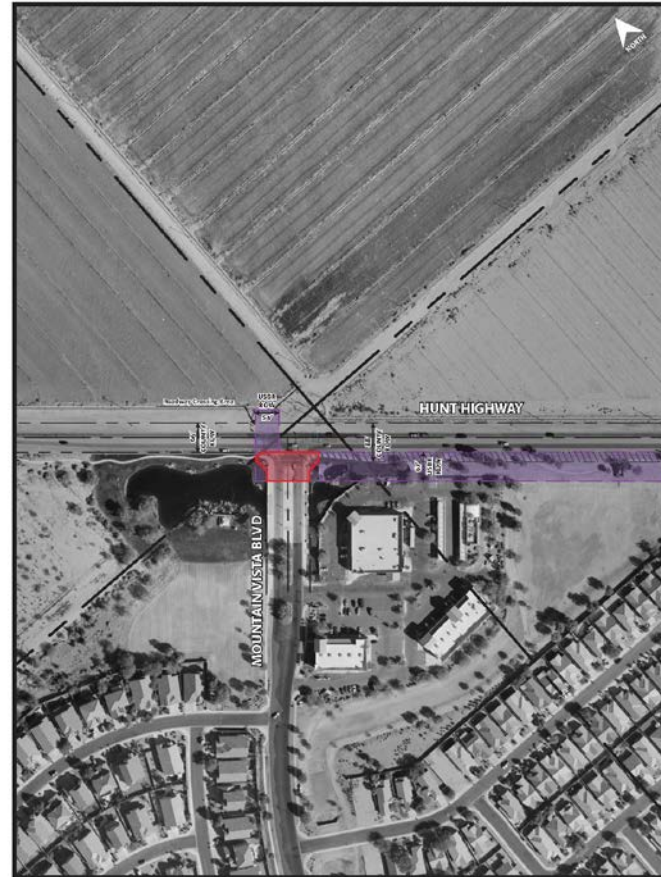
- Project Challenges
 - Coordination with Proposed Development



Phase 2

Thompson Rd to Gary Rd

- Project Challenges
 - Bureau of Reclamation
 - Utility Crossing





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Hunt Highway Phase 3

Gary Road to Bella Vista Road

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Phase 3

Gary Rd to Bella Vista Rd

- Budget & Funding Source
 - \$6 Million
 - Bond
- Project Status
 - Design Finalized - August 2015
 - Bid Advertisement - October 2015



HUNT HIGHWAY PHASE 3

Fact Sheet

Project No: 6621173

Project Location: Gary Road to Bella Vista Road/Golf Club Drive

Project Length: Project Length: 1.43 Miles

Proposed Improvements: 4 Lanes with paint median, bike lanes, curb/gutter, sidewalk, right turn lanes, storm drain system.

Funding Commitment: \$6,000,000

Status: Sealed PS&E

Acquisitions:	Parcel	Type	Status
	ASLD		
	210-18-8220	ROW ESMT	Submitted to ASLD on 12/14
	Johnson Ranch Community Association		
	210-74-189-A	SW ESMT	Approved by property owner
	210-74-189-B	SW ESMT	Approved by property owner
	210-54-2480	SW ESMT	Approved by property owner
	210-20-003-R	SW ESMT	Approved by property owner

Utilities:	Owner	Conflicts	Resolved	Status
	Century Link	Yes	In Progress	Design
	City of Mesa Gas	Yes	Yes	Relocation
	Cox Communications	Yes	In Progress	Design
	Johnson Utilities	Yes	Yes	Relocation
	NMIDD	No		
	SRP (12kV)	Yes	Yes	Relocation
	SRP (69 kV)	Yes	Yes	Relocation
	Mediacom	Yes	In Progress	Design

Construction Cost (Est.): \$5,730,000 (Sealed PS&E)



September 2015

1 of 2



Phase 3

Gary Rd to Bella Vista Rd

■ Scope of Work

- 5-lane section
 - Widening
 - Mill & Overlay

- Bicycle and Pedestrian Facilities
- Storm Drain System (on-sites)
- Dedicated right turn lanes

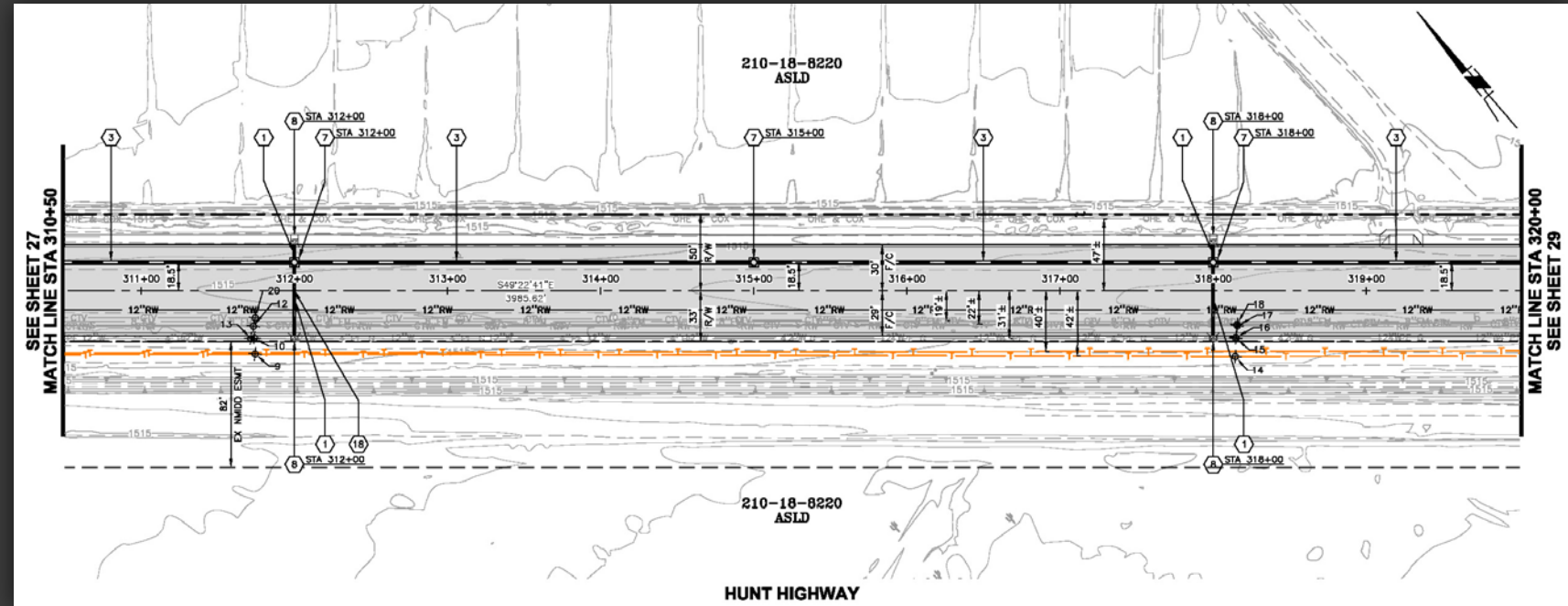




Phase 3

Gary Rd to Bella Vista Rd

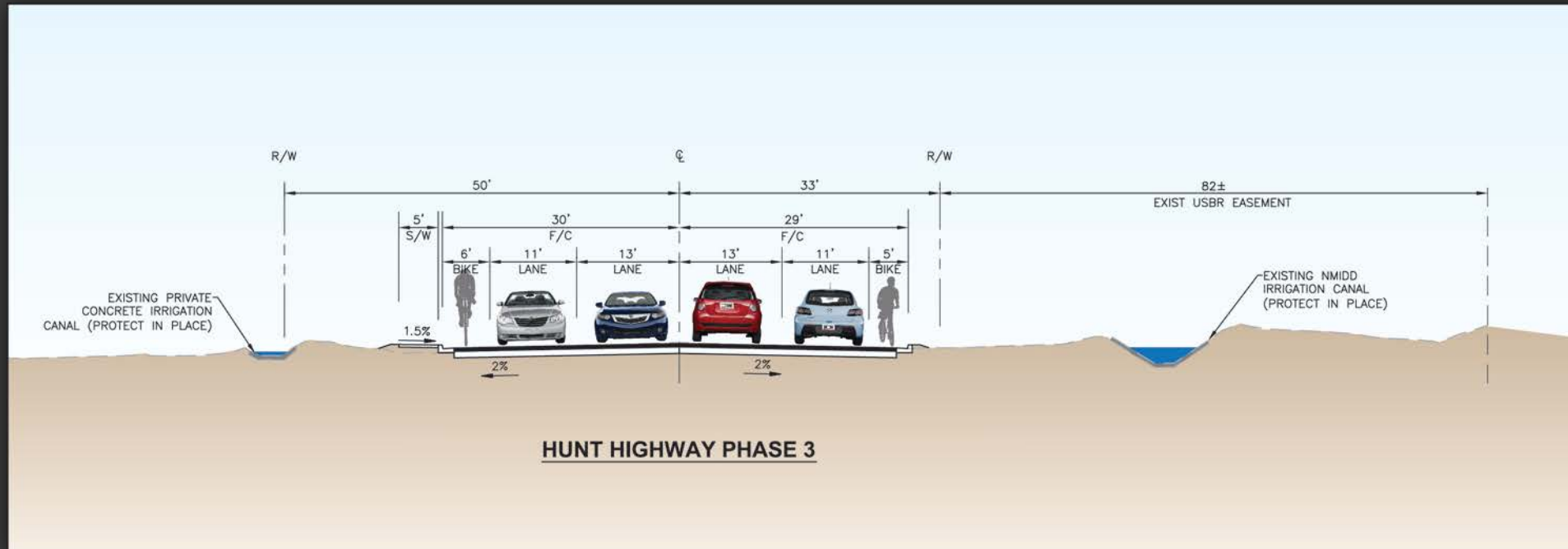
- Project Challenges
 - Utility Coordination
 - 80+ Potholes
 - Telecommunication
 - Water, Sewer and Reclaimed Water
 - SRP Transmission



Phase 3

Gary Rd to Bella Vista Rd

- Project Challenges
 - Arizona State Land
 - Right-of-Way Easement Acquisition
- Bureau of Reclamation
 - Modifications to cross-section





Phase 3

Gary Rd to Bella Vista Rd

- Project Challenges
 - Drainage
 - On-site storm drain system





HUNT HIGHWAY

Hunt Highway Phase 4

Bella Vista Road to Magma Road

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Phase 4 Bella Vista Rd to Magma Rd

- Budget & Funding Source
 - \$8 Million
 - Bonds
- Project Status
 - Under Design
 - 60% Documents - November 2015
- Project Schedule
 - Design Complete - Summer of 2016
 - Construction Anticipated FY 2016-2017



HUNT HIGHWAY PHASE 4 Fact Sheet

Project No: 6621174

Project Location: Bella Vista Road/Golf Club Drive
to Magma Road

Project Length: Project Length: 2.35 Miles

Proposed Improvements: 4 lanes with striped median,
curb/gutter, sidewalk along
Copper Basin, right turn lanes,
storm drain system.

Funding Commitment: \$8,000,000

Status: 30% PS&E

Acquisitions:	Parcel	Type	Status
	ASLD		
	210-20-7000	ROW ESMT	Submitted to ASLD on 12/14
	210-27-7000	ROW ESMT	Submitted to ASLD on 12/14



Utilities:	Owner	Conflicts	Resolved	Status
	Century Link	Yes	No	Need potholes
	City of Mesa Gas	Yes	No	Need potholes
	Cox Communications	Yes	No	Need potholes
	Johnson Utilities	Yes	No	Need potholes
	NMIDD	Yes	No	Design
	SRP	Yes	No	Design
	Mediacom	Yes	No	Need potholes
	WAPA	No		

Construction Cost (Est.): \$7,600,000 (30% PS&E)



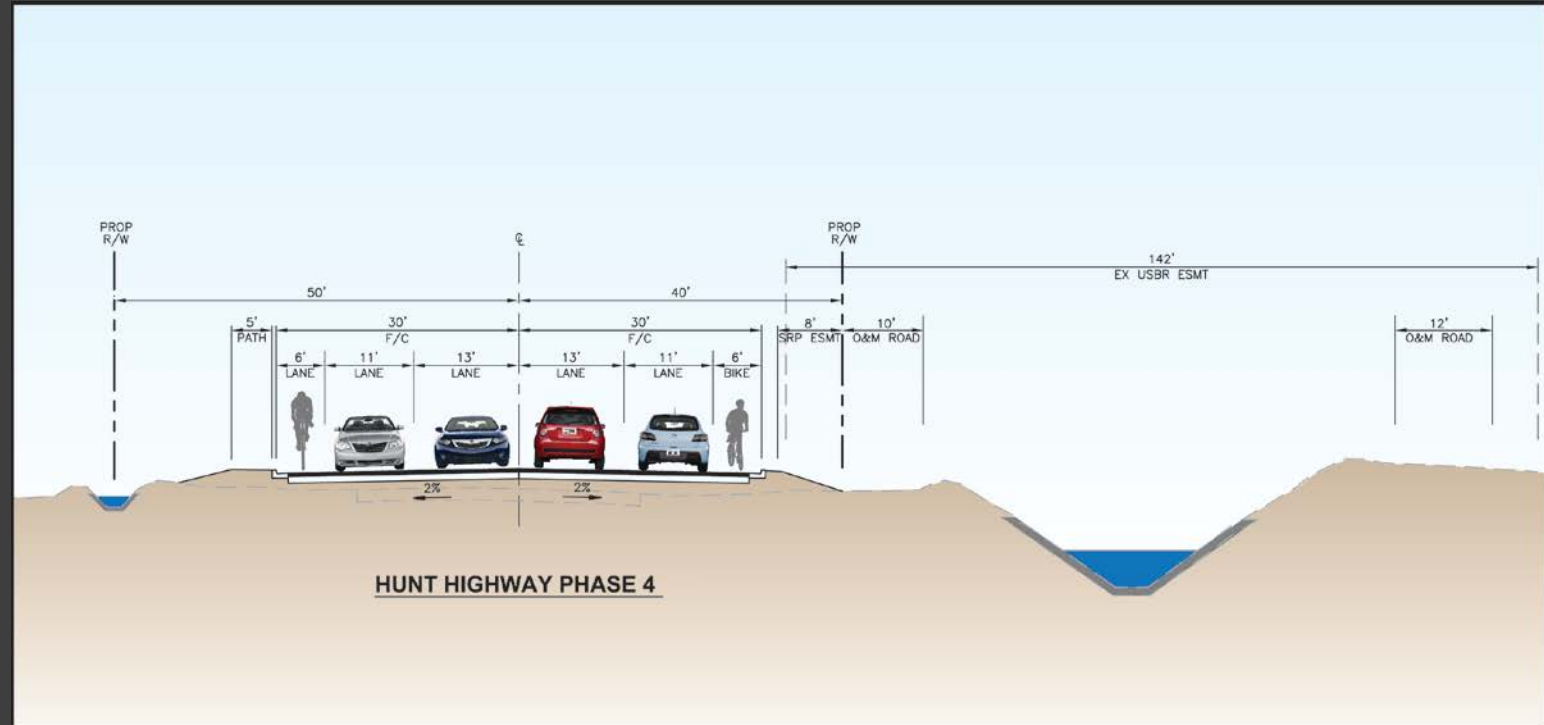
September 2015

1 of 2

Phase 4

Bella Vista Rd to Magma Rd

- Scope of Work
 - 4-lane/5-lane Sections
 - 2 Box Culvert Drainage Crossings
 - Two New Traffic Signals
 - Dedicated Right Turn Lanes



Phase 4 Bella Vista Rd to Magma Rd

- Project Challenges
 - Offsite Drainage
 - Gantzel Channel (Flood Control)
 - Box Culvert Crossings





Phase 4

Bella Vista Rd to Magma Rd

- Project Challenges
 - Utilities
 - New Magma Irrigation and Drainage District
 - WAPA
 - SRP Conversion

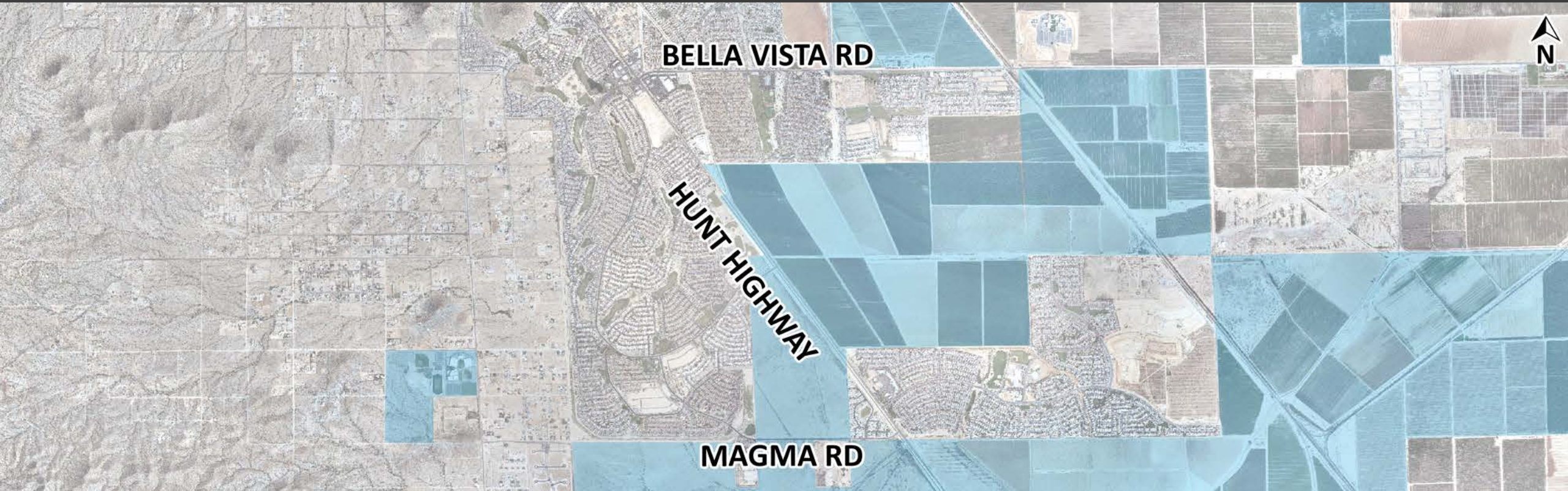




Phase 4

Bella Vista Rd to Magma Rd

- Project Challenges
 - ASLD





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Hunt Highway Phase 5

Magma Road to Arizona Farms Road

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Phase 5

Magma Rd to Arizona Farms Rd

- Budget & Funding Source
 - \$5 Million
 - Bond
- Project Status
 - Under Design
 - 30% Documents due on Spring 2016
- Project Schedule
 - Design complete by Spring of 2017
 - Construction anticipated FY 2017-2018





Phase 5

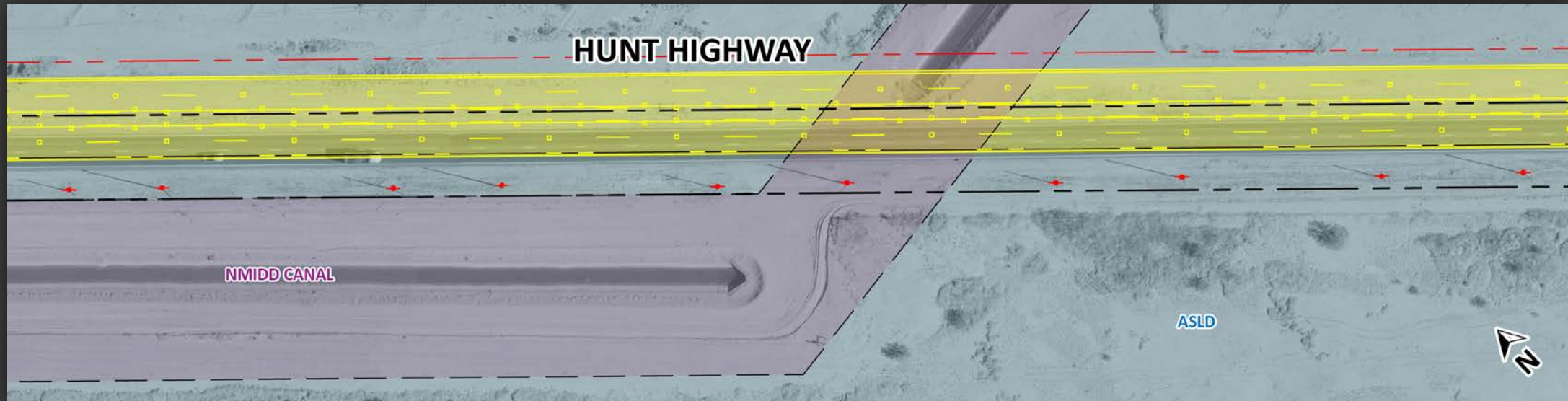
Magma Rd to Arizona Farms Rd

- Scope of Work
 - 5-lane Section
 - Arizona Farms Re-Alignment



Phase 5 Magma Rd to Arizona Farms Rd

- Project Challenges
 - Utility Coordination
 - SRP Conversion
 - NMIDD Siphon Extension



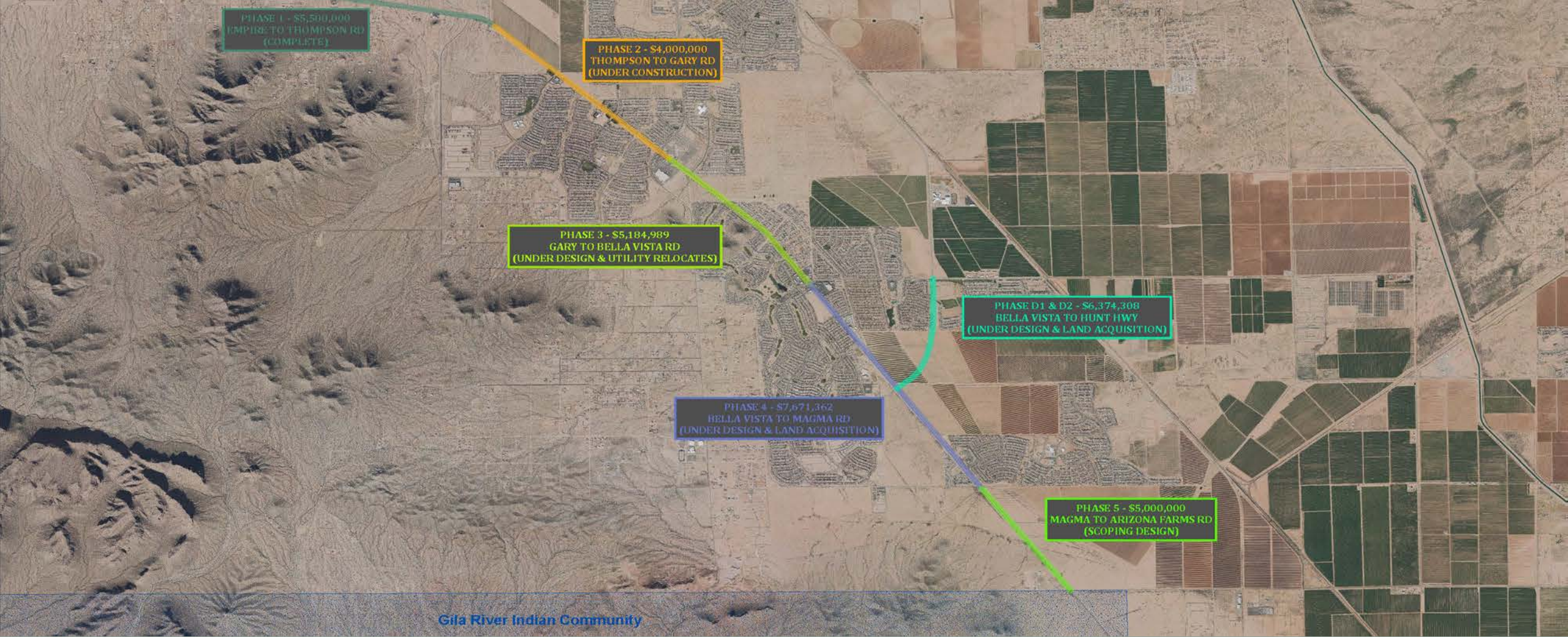


Phase 5

Magma Rd to Arizona Farms Rd

- Project Challenges
 - Relocate Existing Intersection





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Hunt Highway Corridor

Empire Blvd to Arizona Farms Road

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Hunt Highway

QUESTIONS

