



**KIEWIT-FANN**  
JOINT VENTURE

I-17, Anthem Way TI to Jct. SR 69  
(Cordes Junction)

Noise Analysis Technical  
Memorandum

Issue Date: June 17, 2022

Revisions 0



## Maintenance of this Document

This document will be updated as required during construction.

Revision Number	Revision Description	Effective Date
0	Issued for Review	06/17/2022

**Approvals:**



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6/17/2022

Prepared:

Date

Angie Newton

Sr. Noise Specialist

Pinyon Environmental



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Jun 23, 2022

Approved:

Date

Avi Schmerer

Design Manager

Kiewit

*Hether Telford*

[Hether Telford \(Jun 23, 2022 09:51 MDT\)](#)

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Jun 23, 2022

Approved:

Date

Hether Telford

PSQM

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## NOISE ANALYSIS TECHNICAL MEMORANDUM

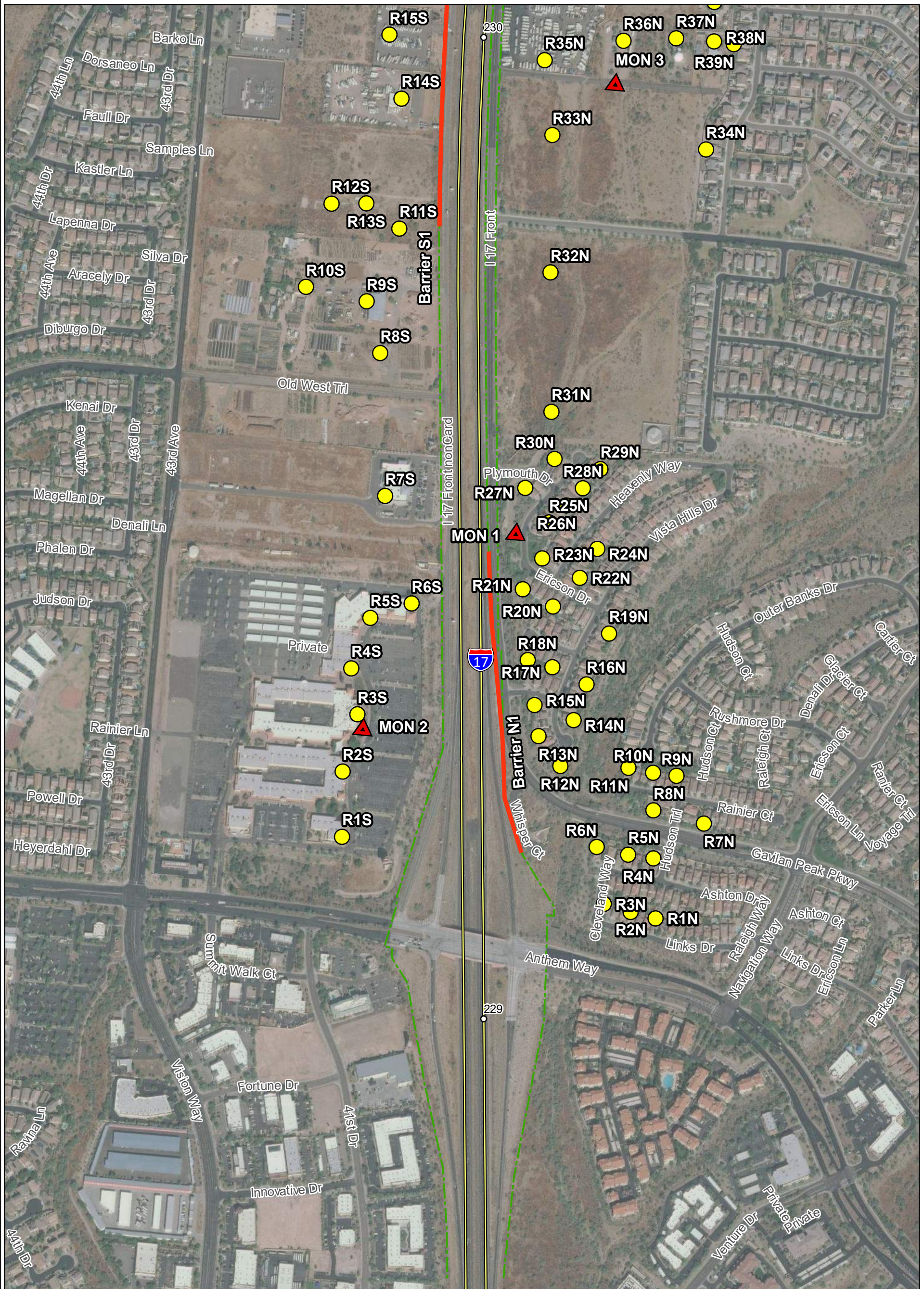
This Noise Analysis Addendum 1 takes into consideration the provisions of the 2017 Arizona Department of Transportation (ADOT) Noise Abatement Requirements (NAR) and summarizes the results of the updated noise analysis. This addendum also addresses the proposed changes from the I-17, Anthem Way TI to Junction State Route (SR) 69 – Cordes Junction Noise Analysis Technical Report, approved May 14, 2018, pertaining to horizontal and vertical placement of noise barriers. This analysis included all noise sensitive land uses within the project limits and abatement was considered for the eligible properties (properties that were with active building permits on or before the Date of Public Knowledge (DOPK), August 6, 2019). A review of Google Earth, current Maricopa Association of Governments (MAG) land use maps, and Yavapai County GIS assessor was conducted to document if a change in land use had occurred since the DOPK. No changes in land use were found that would impact the analysis or mitigation recommendations. The TNM 2.5 traffic noise model was updated with the most recent MAG traffic demand model volumes. The 2040 Build traffic volumes are shown in Appendix C. Noise receiver, noise monitoring, and noise barrier locations are shown in Appendix A. All other assumptions closely correspond to the report that was approved by Federal Highway Administration (FHWA) and ADOT.

The I-17, Anthem Way TI to Junction SR 69 – Cordes Junction Noise Analysis Technical Report recommended the construction of three barriers (Barrier S2, Barrier N3, Barrier S6) to mitigate noise from I-17. Barrier S2 is located west of I-17 between Anthem Way and Circle Mountain Road. The length, height and location of Barrier S2 are the same as what was recommended in the Design Concept Report (DCR) analysis, however two of the 16-foot segments were shifted within the wall design. Barrier N3 is located east of I-17 between Jenny Lin Road and New River Road. This Barrier decreased in length from 1200 feet to 1000 feet, additionally the height of this barrier decreased from 14 feet to a range of 12- to 14-feet. Barrier S6 is located west of I-17 between Todd Evans Rd. and Mud Springs Rd. The length, height and location of Barrier S6 are the same as what was recommended in the DCR analysis.

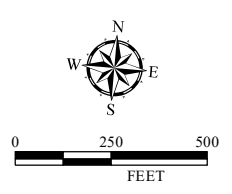
Appendix B summarizes both the recommended noise barriers as well as the evaluated barriers. The 2018 DCR future build (2040) predicted noise levels, 2022 Final Design future build (2040) noise levels, and the future build (2040) mitigated noise levels for all receivers is summarized in Appendix C. The following Appendices are included in this Addendum:

- Appendix A – Noise Receiver, Noise Monitoring, and Noise Barrier Locations
- Appendix B – Noise Barrier Summary
- Appendix C – Modeled Noise Level Results
- Appendix D – TNM 2.5 Traffic Volumes
- Appendix E – TNM File Descriptions

APPENDIX A – NOISE RECEIVER, NOISE MONITORING, AND NOISE BARRIER LOCATIONS

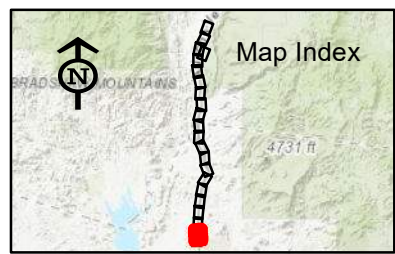


Revised: 1/13/2022  
 SOURCE: ADOT ATIS; World Imagery (Accessed in 2022)



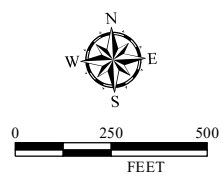
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- R/W
- Recommended Barrier
- Evaluated Barrier
- Mileposts
- ▲ Monitoring Receiver
- Modeled Receiver



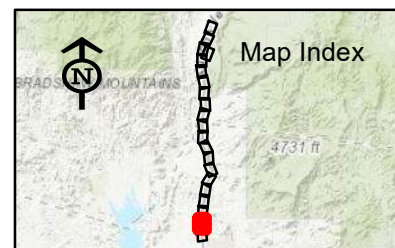


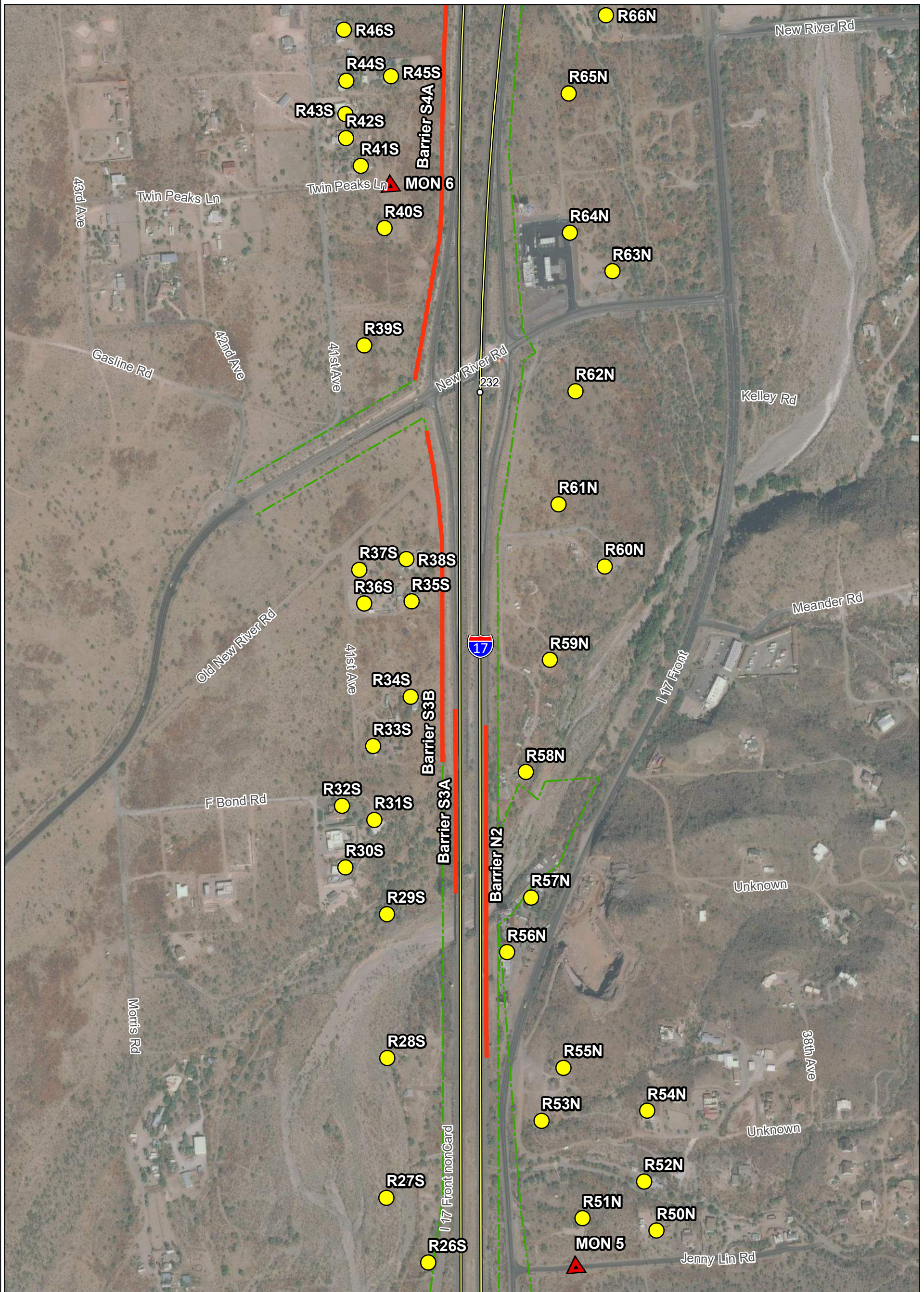
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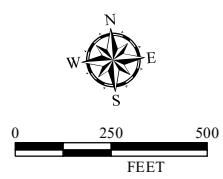
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- Modeled Receiver
- Recommended Barrier
- Evaluated Barrier
- Mileposts
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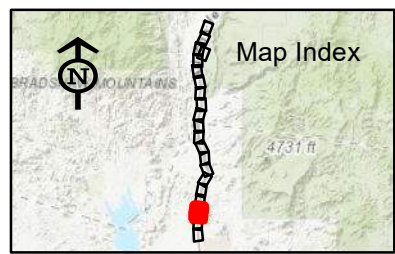


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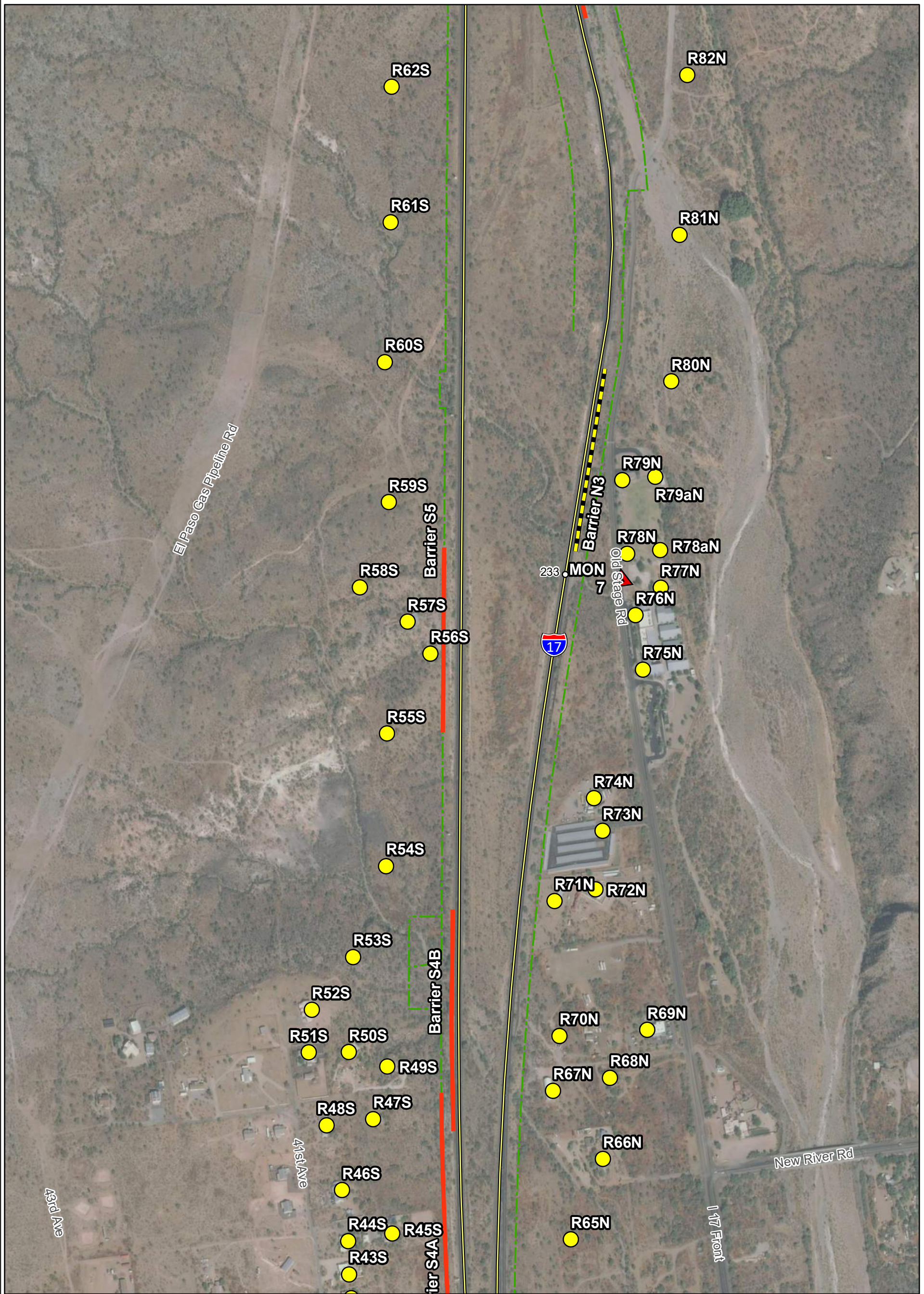


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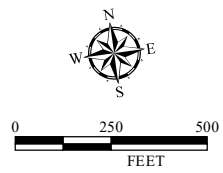
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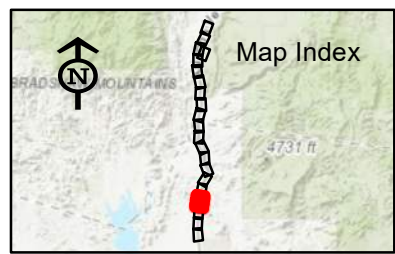


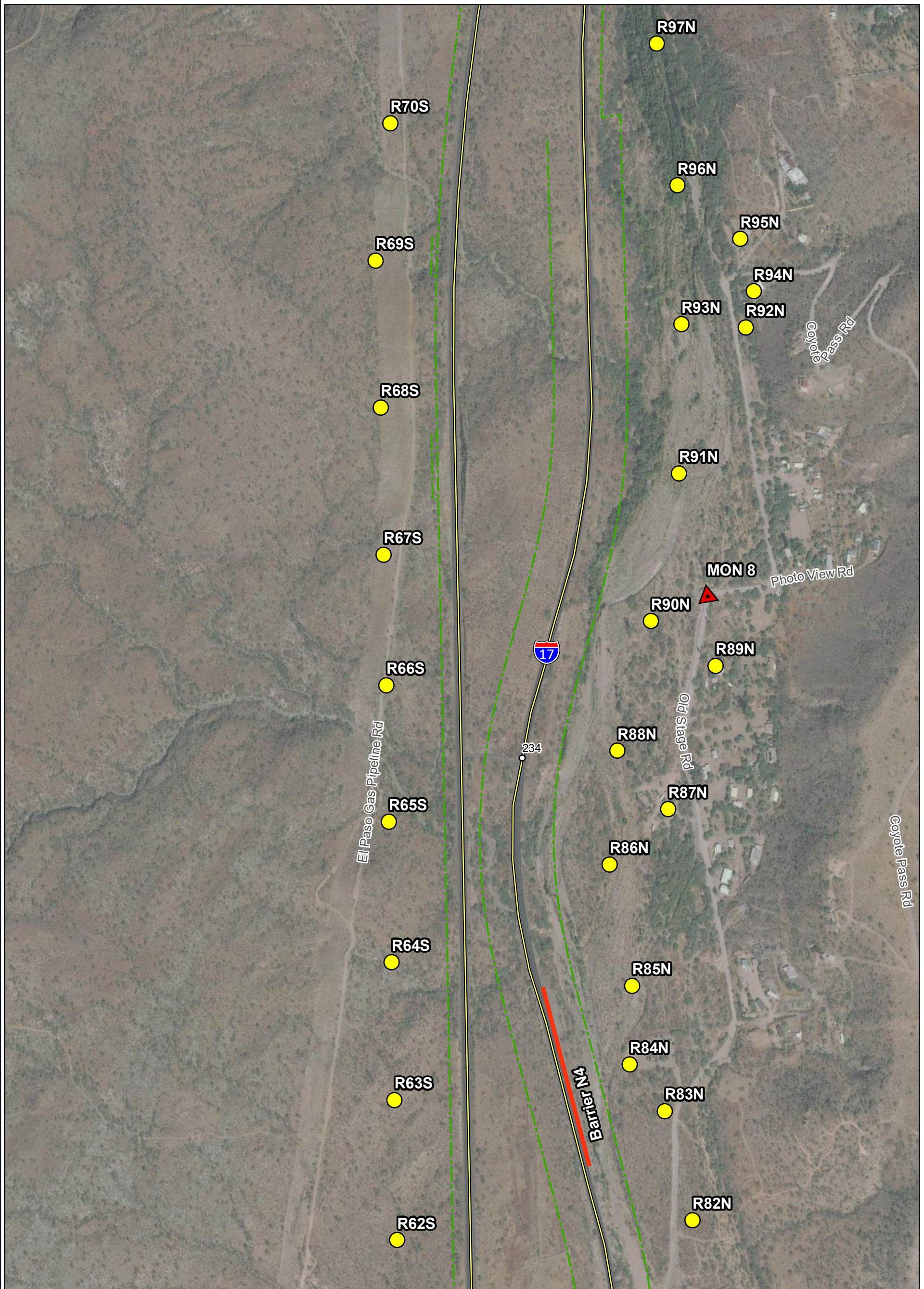
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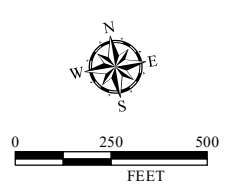
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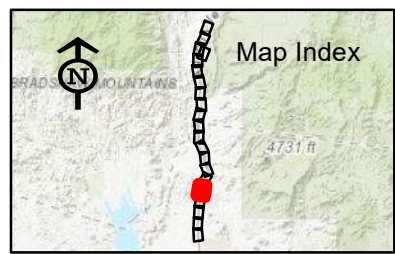


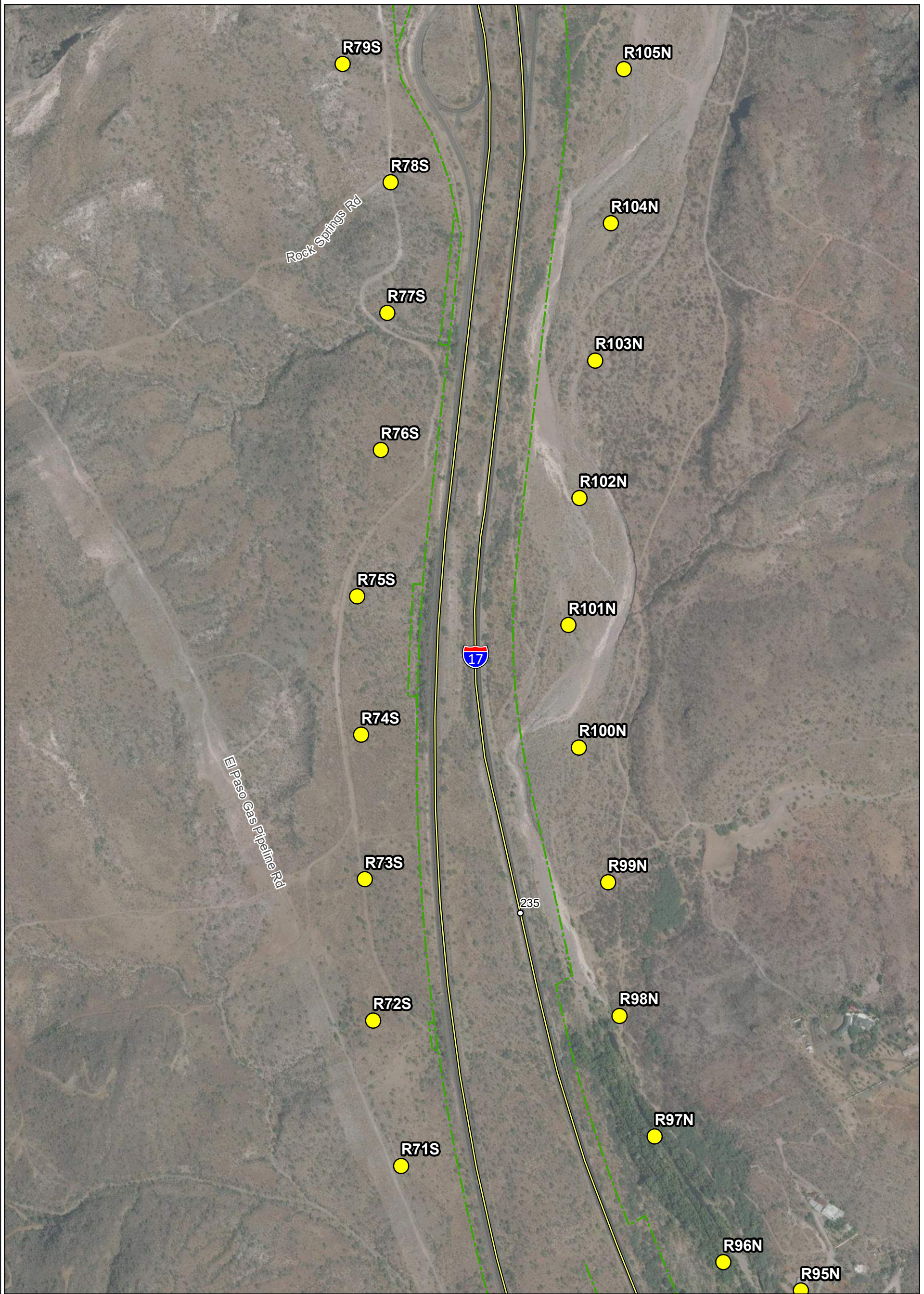
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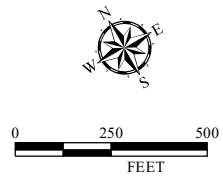
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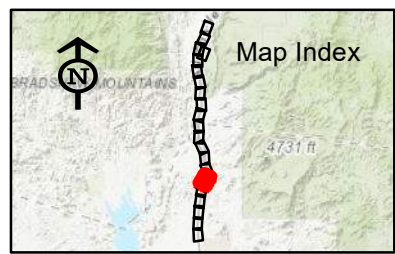


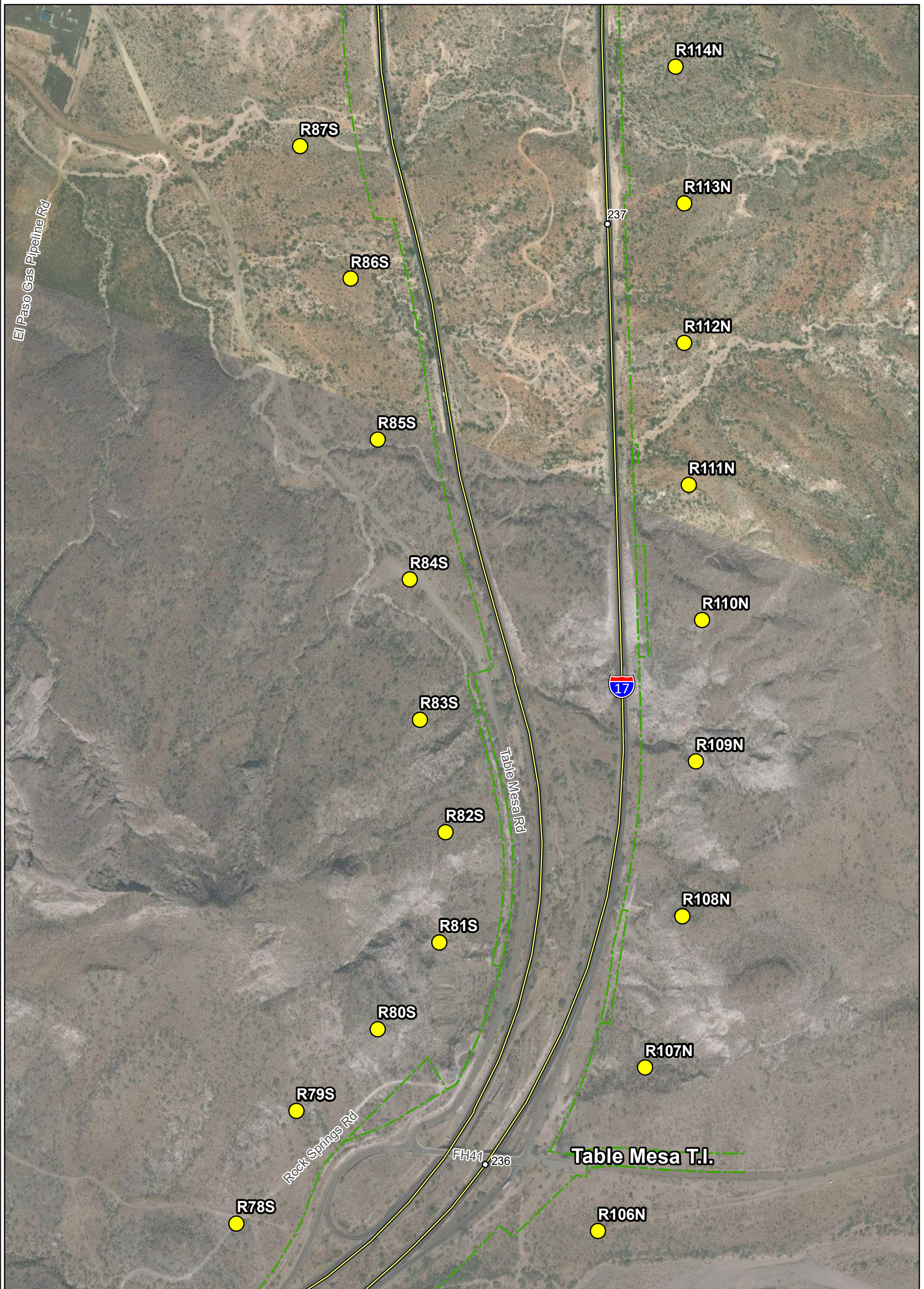
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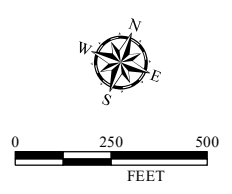
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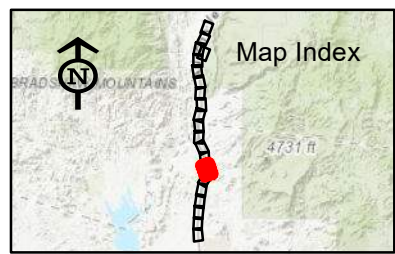


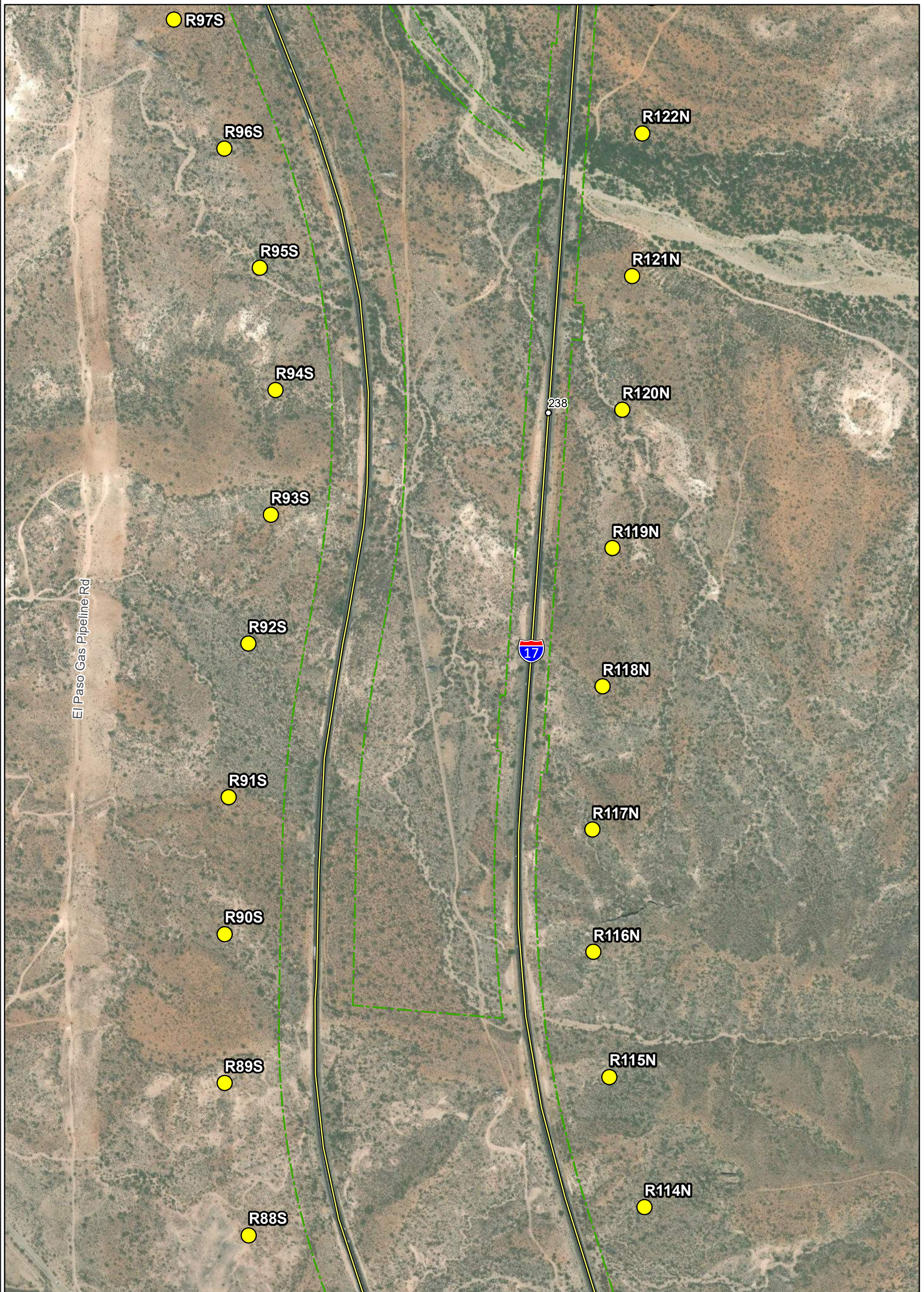
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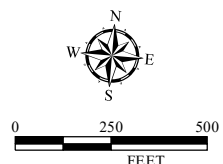
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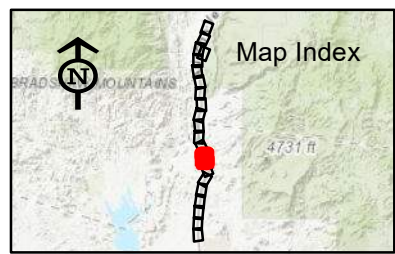


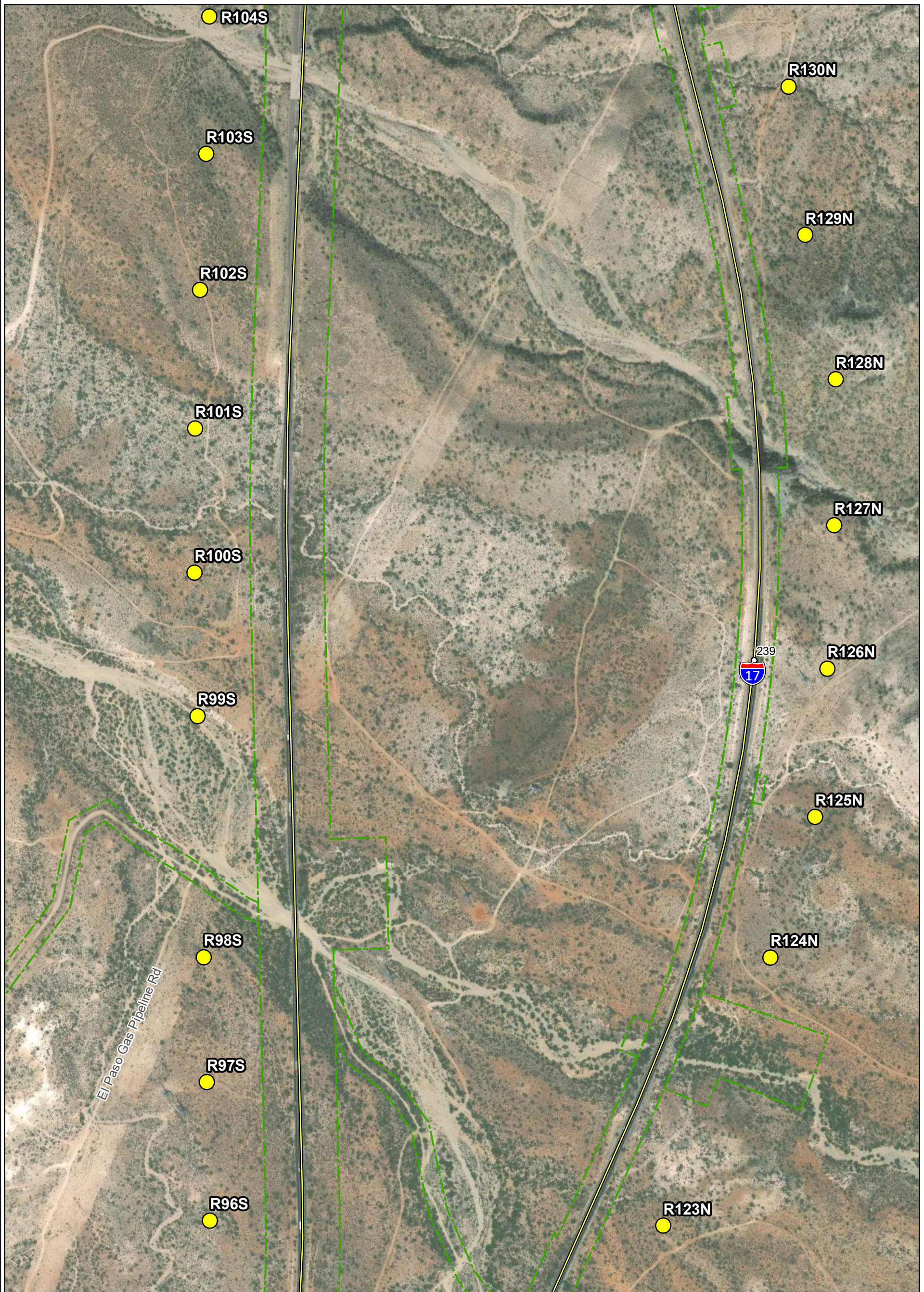
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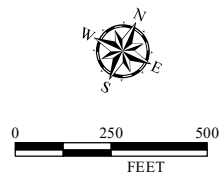
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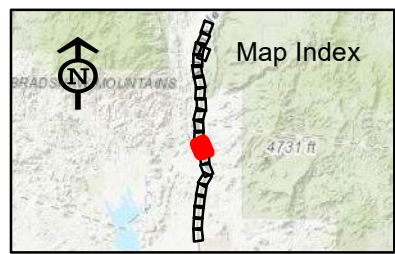


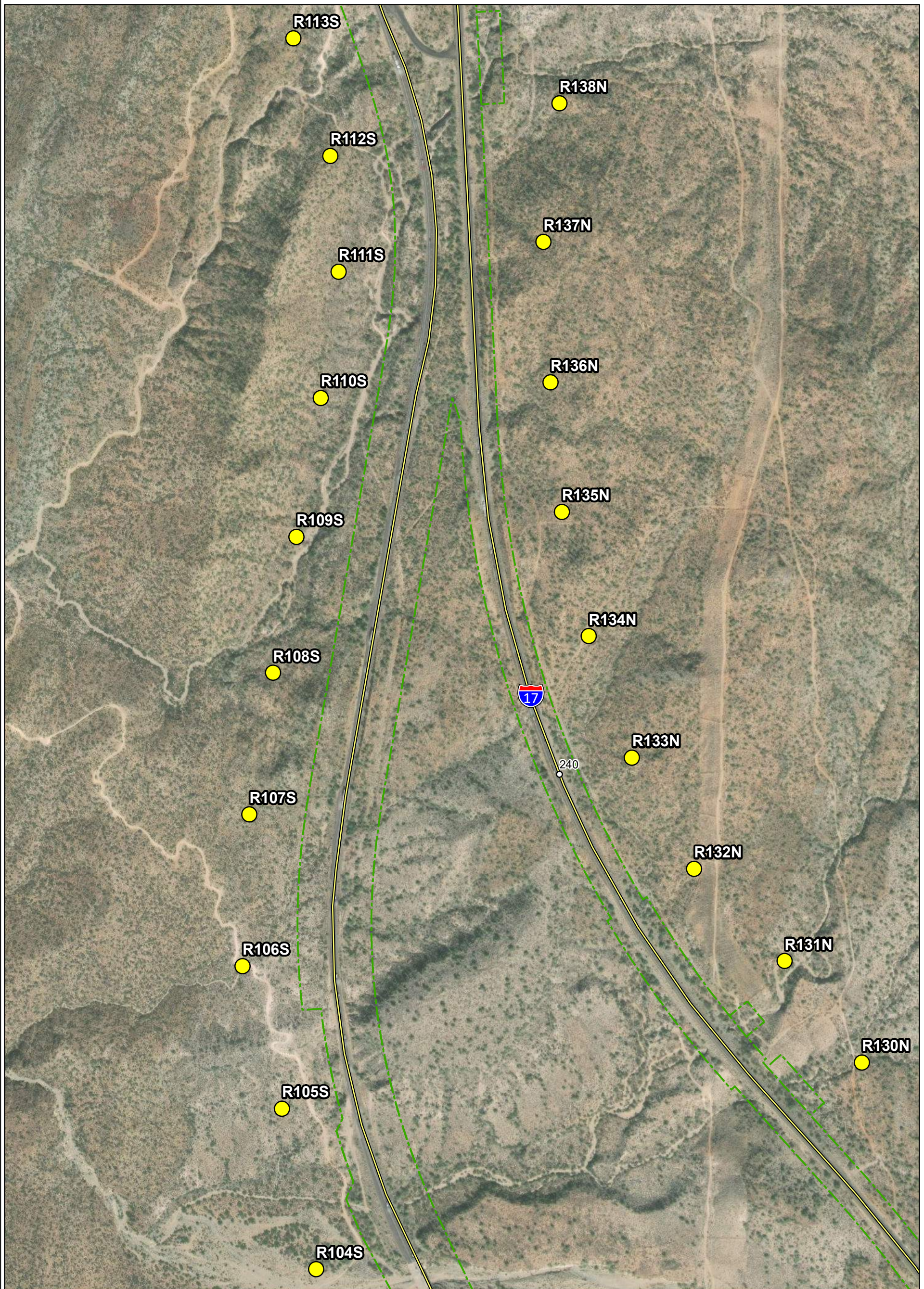
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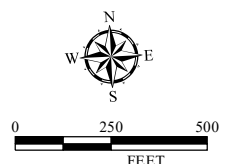
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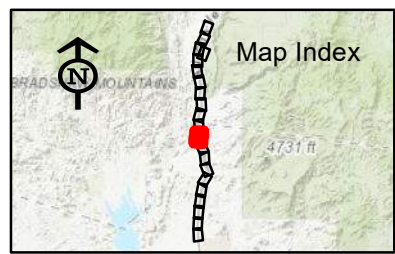


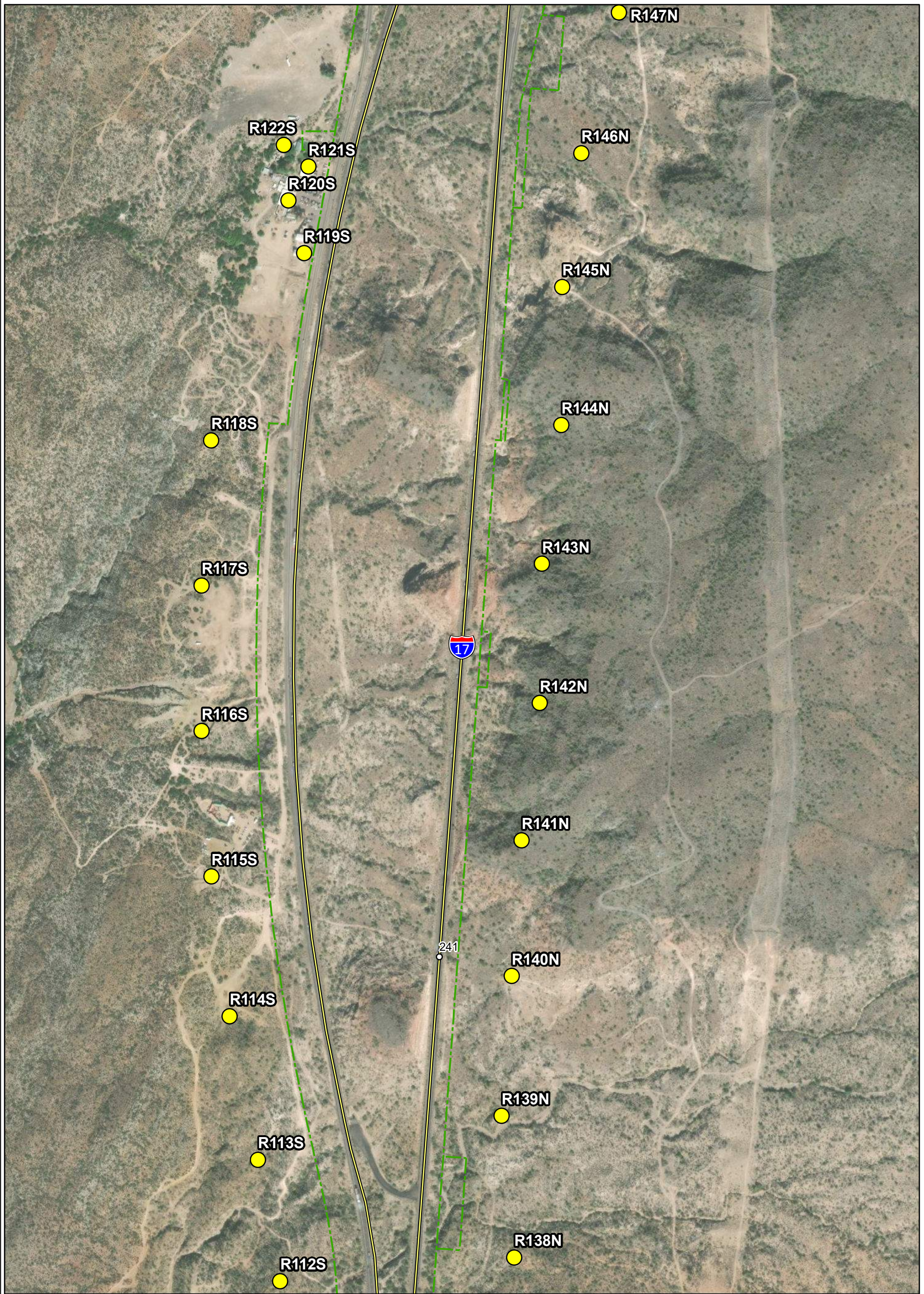
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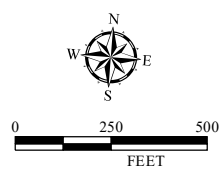
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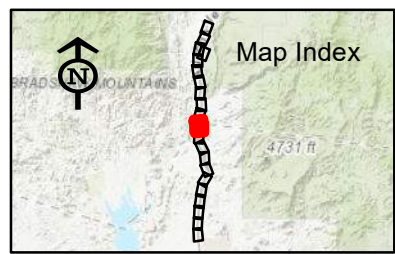


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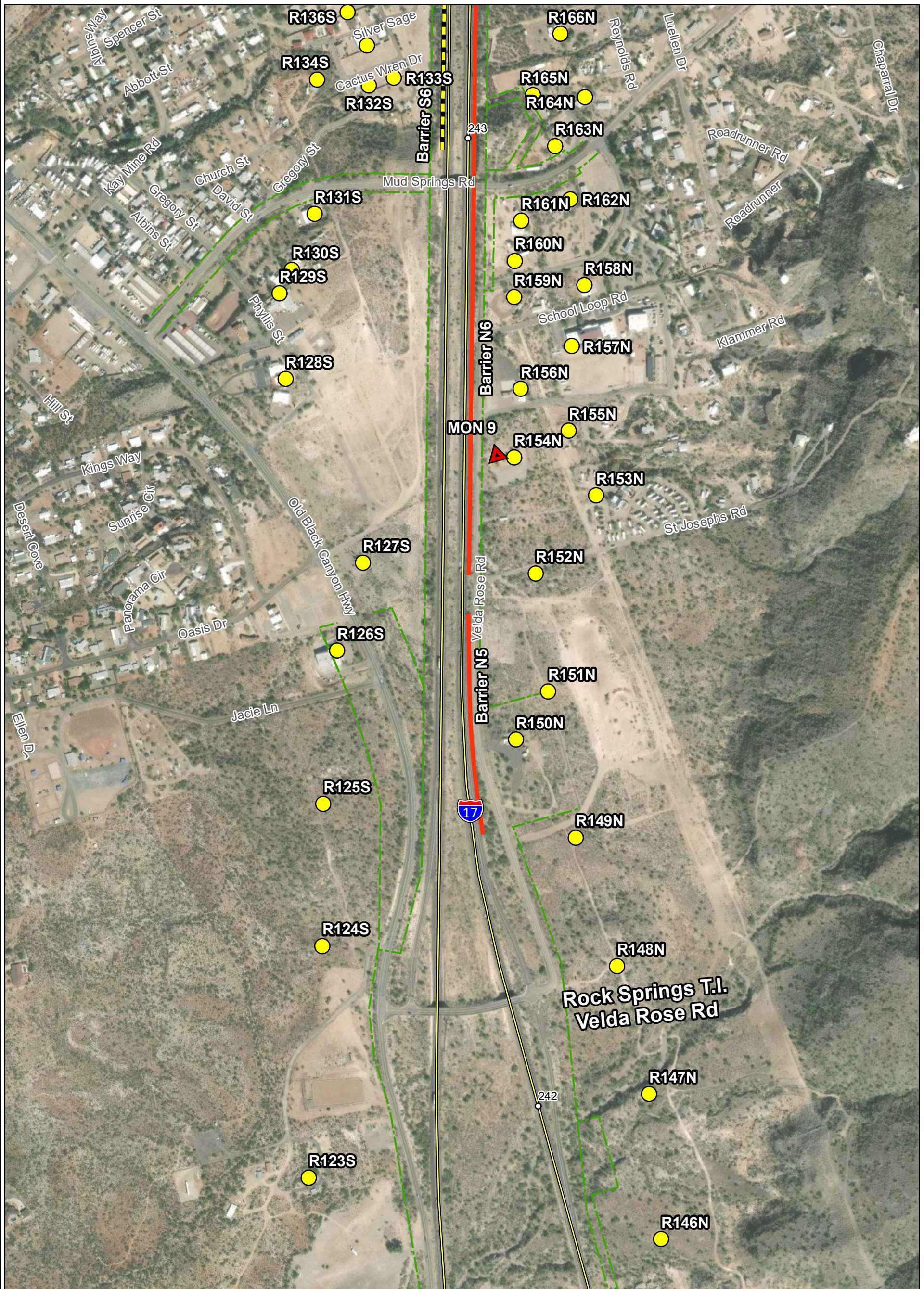


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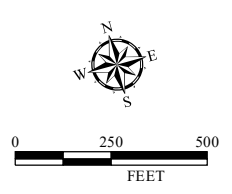
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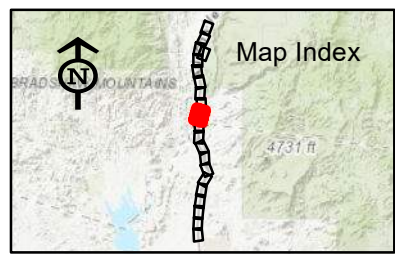


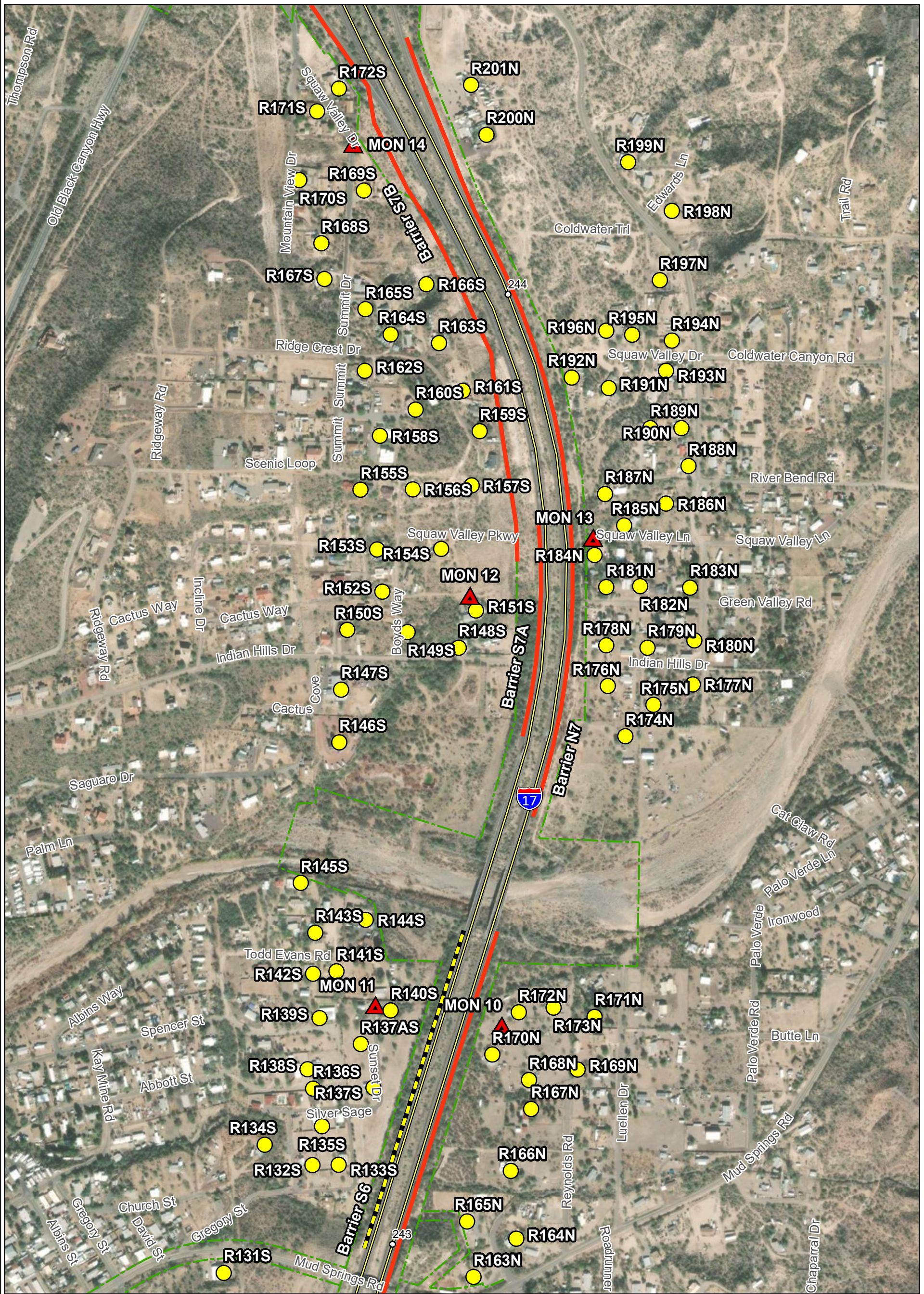
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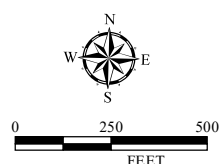
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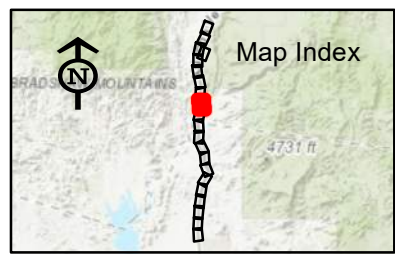


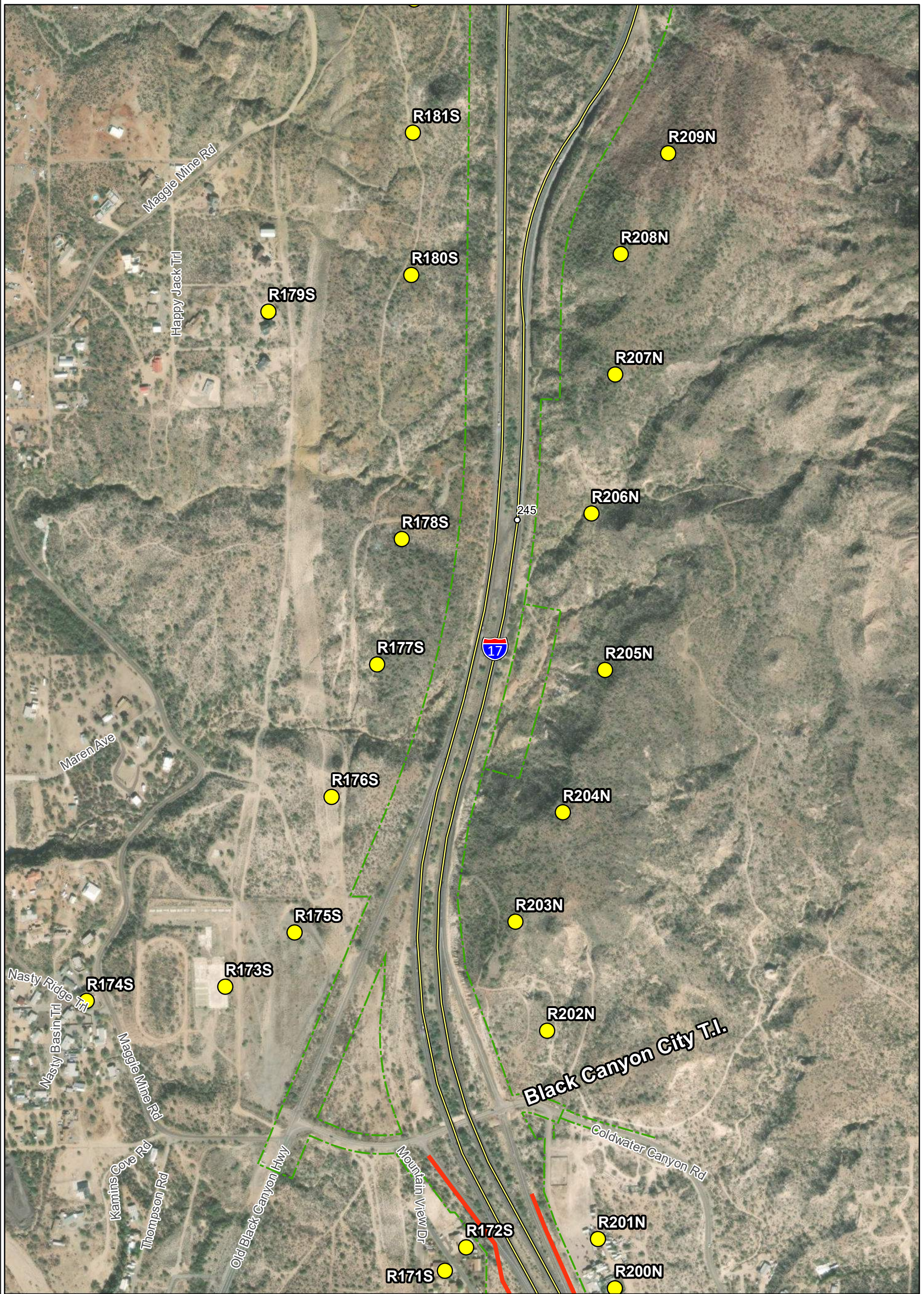
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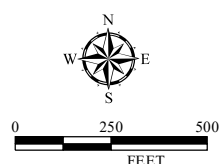
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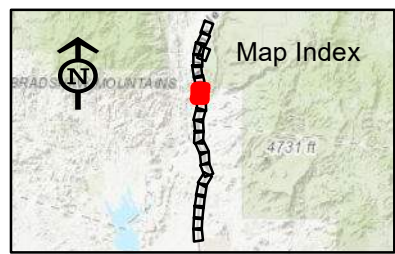


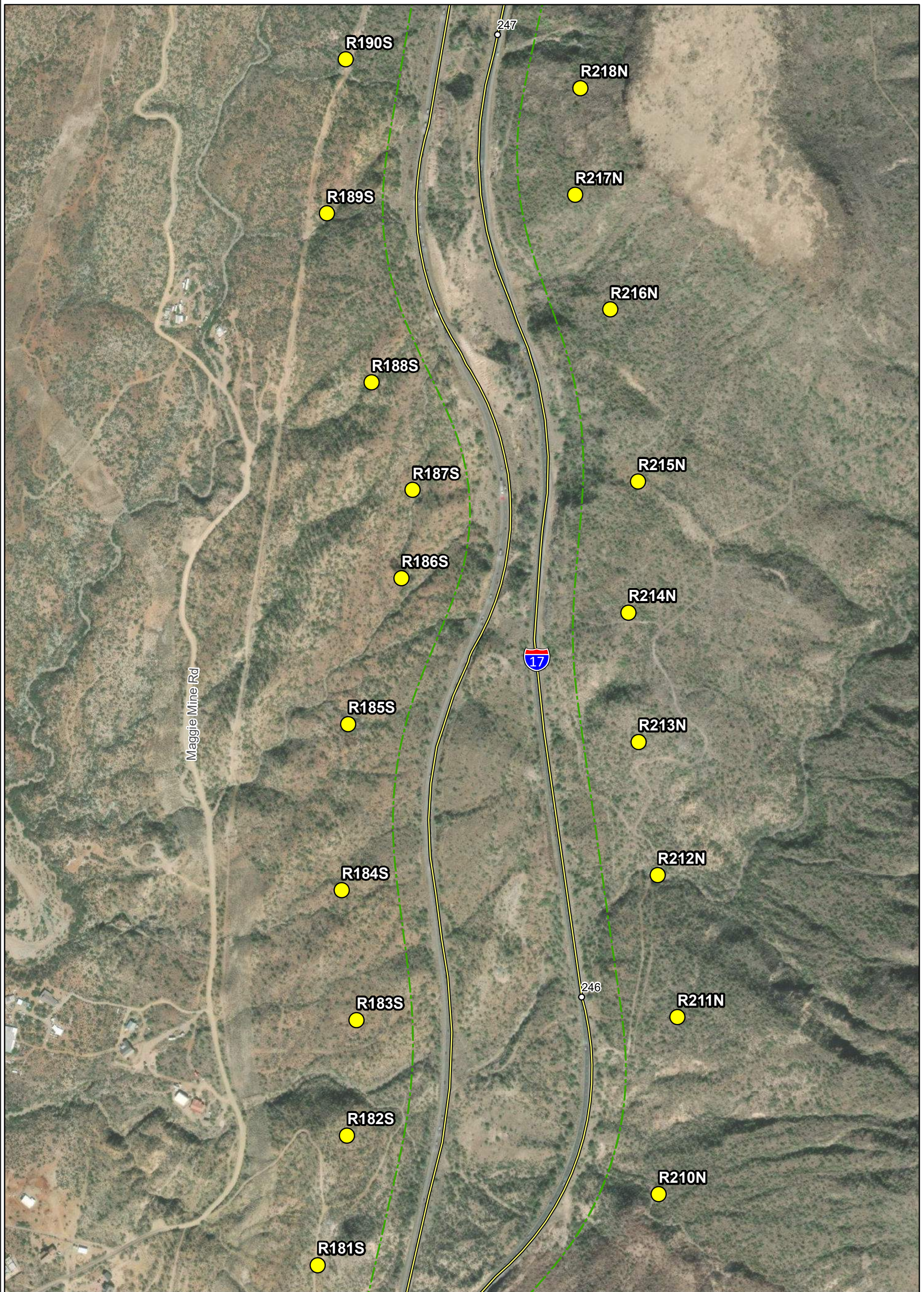
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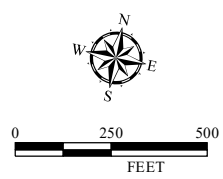
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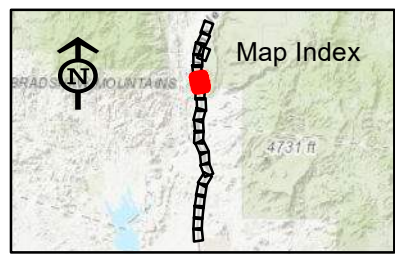


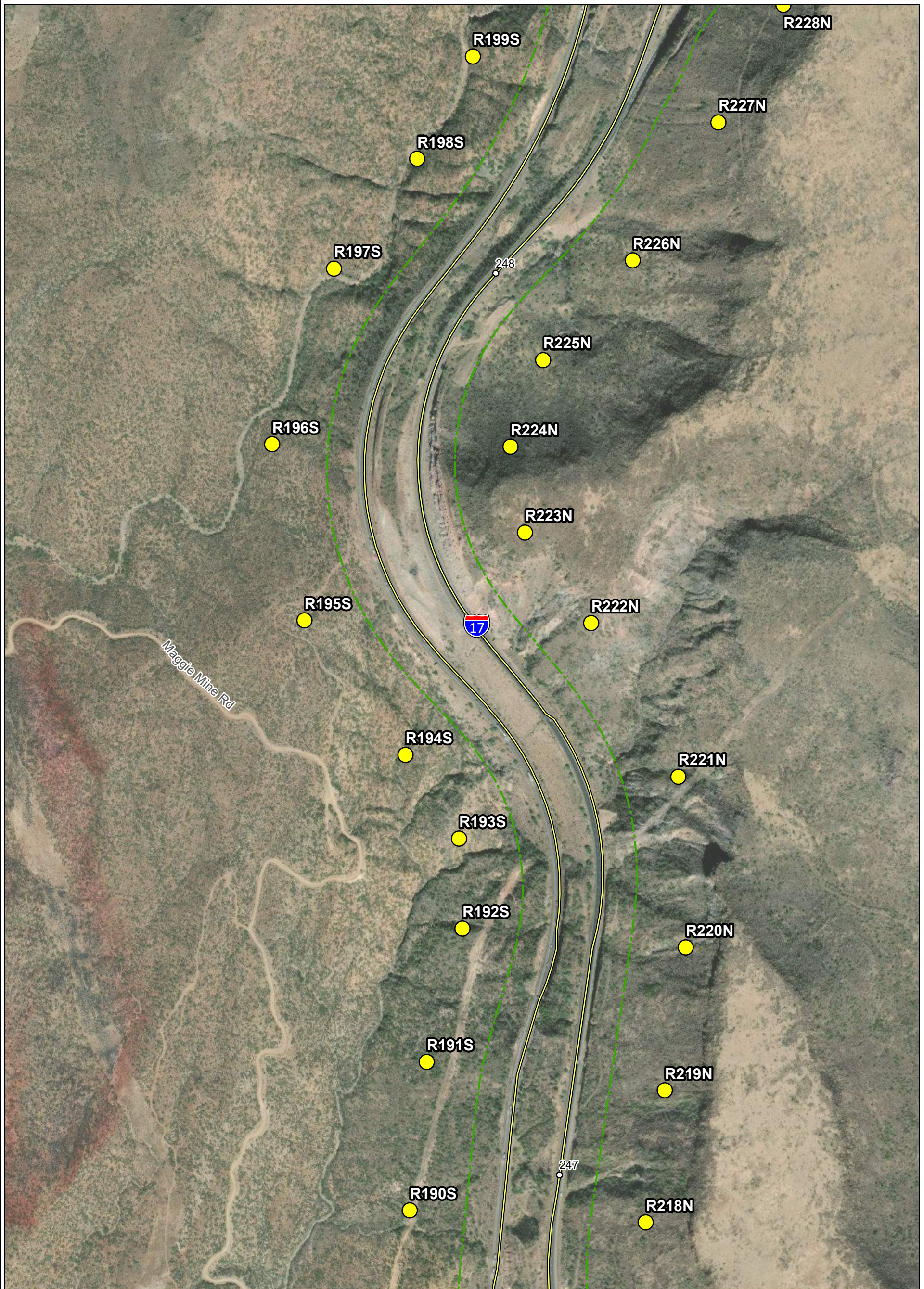
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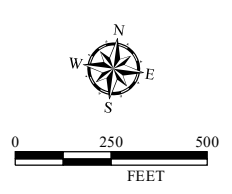
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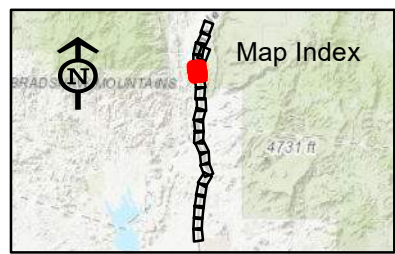


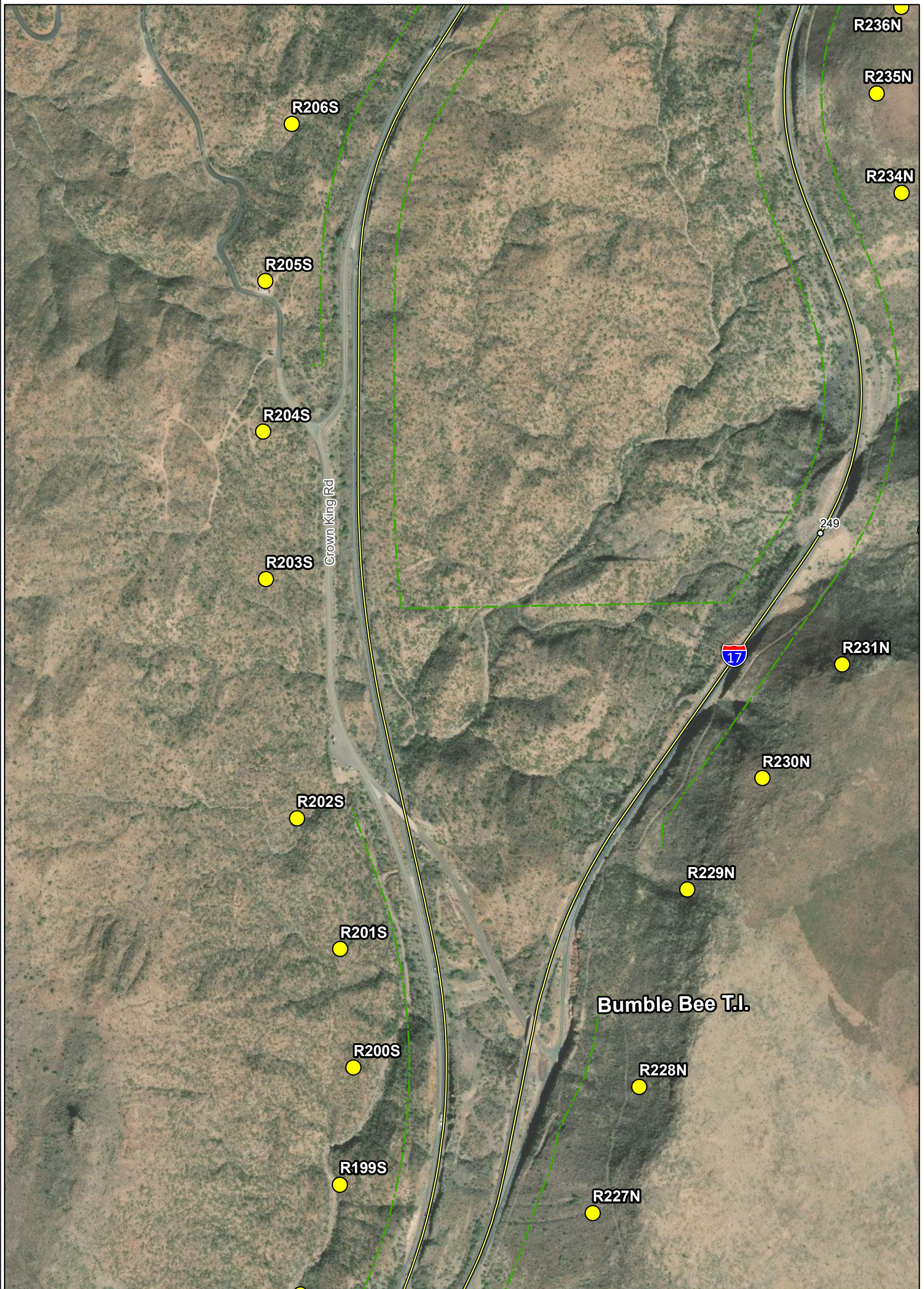
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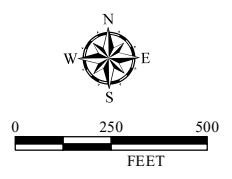
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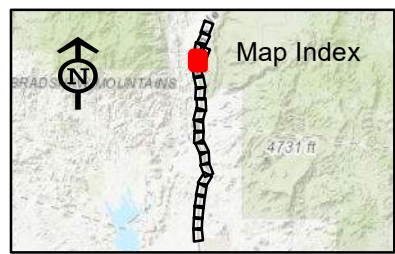


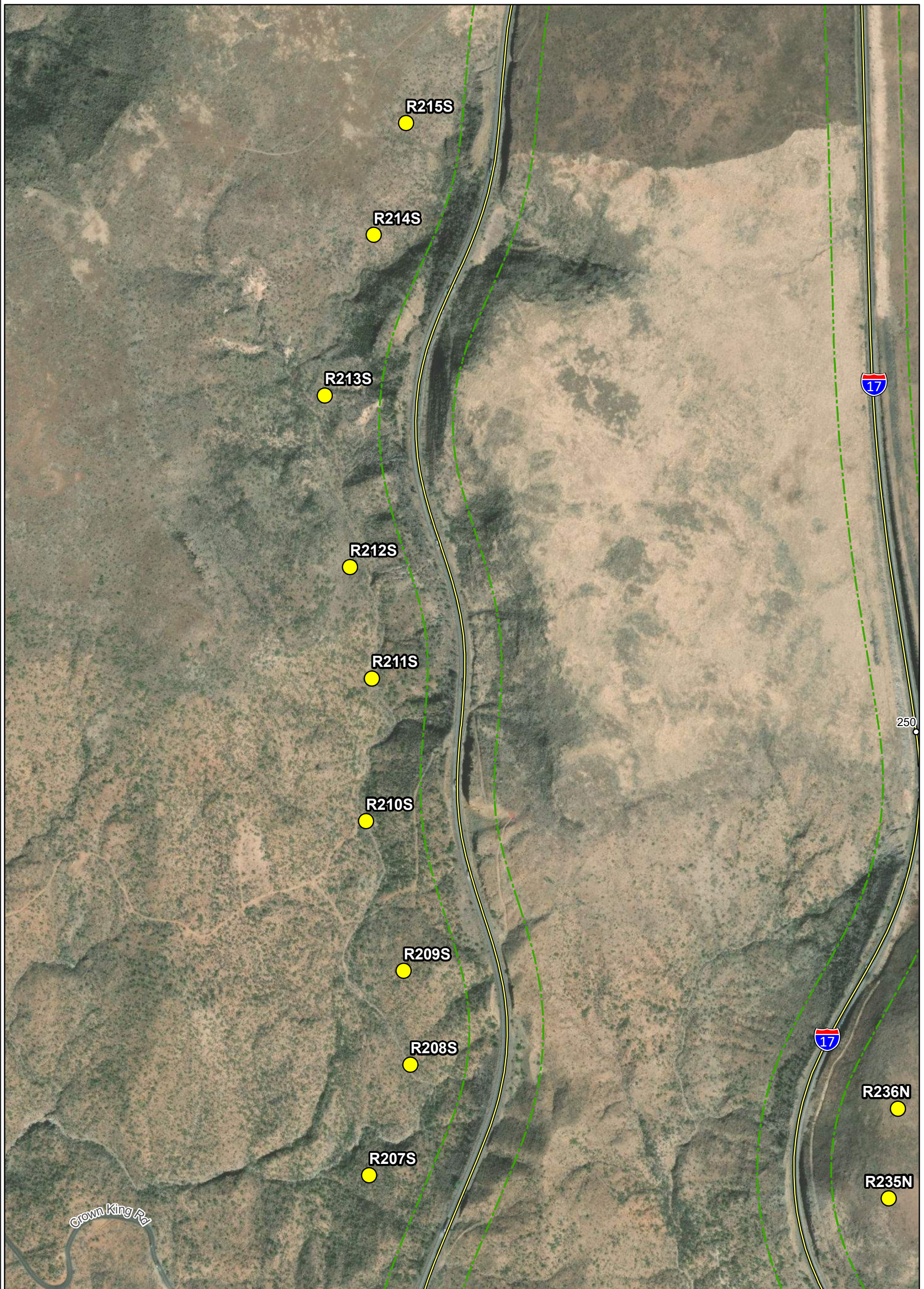
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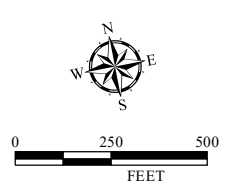
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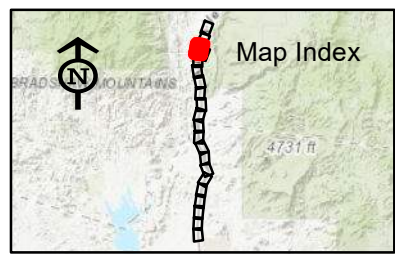


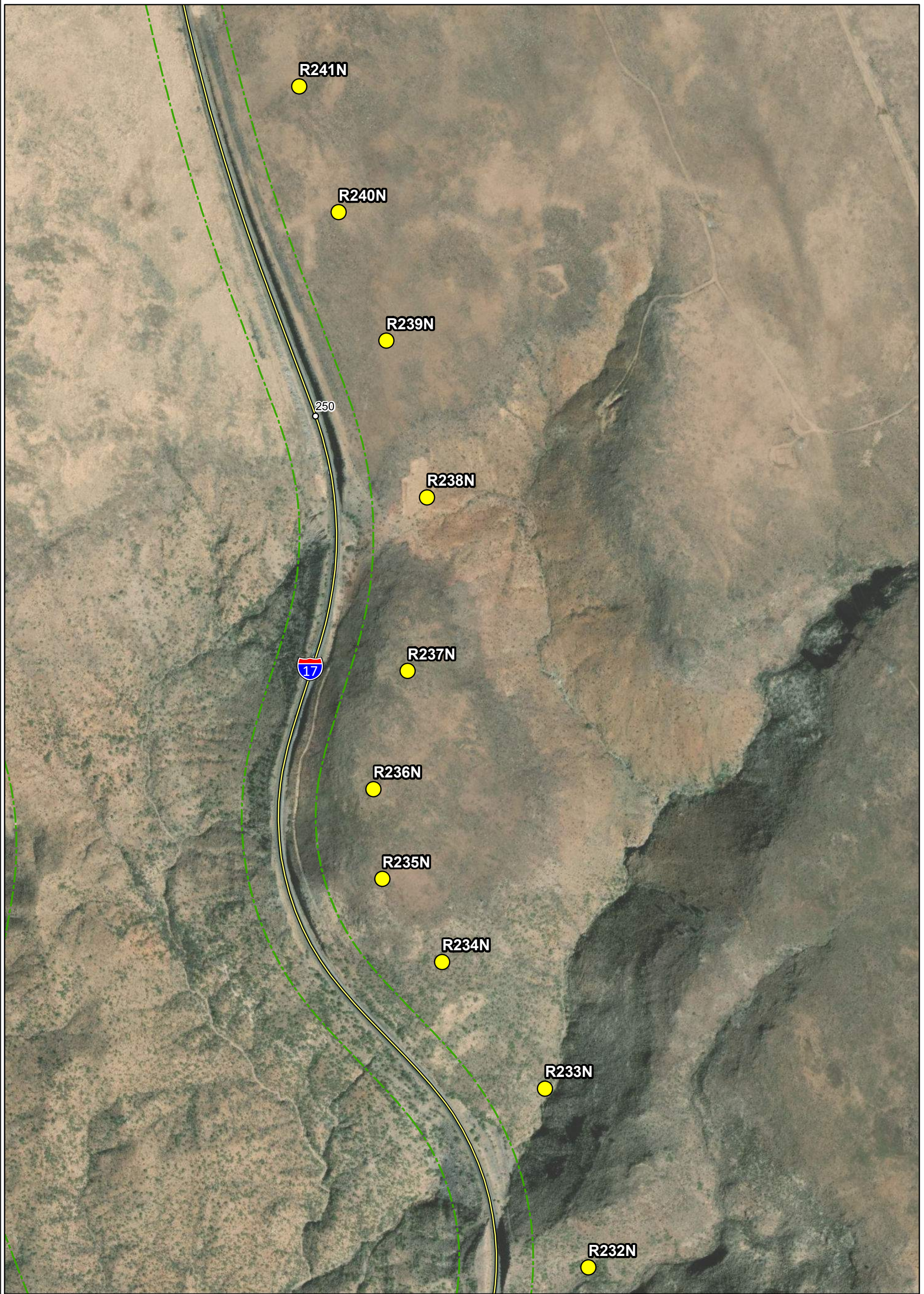
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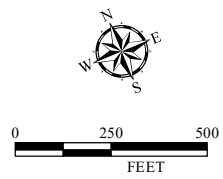
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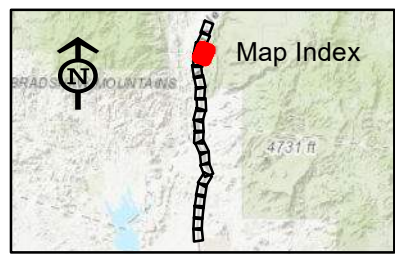


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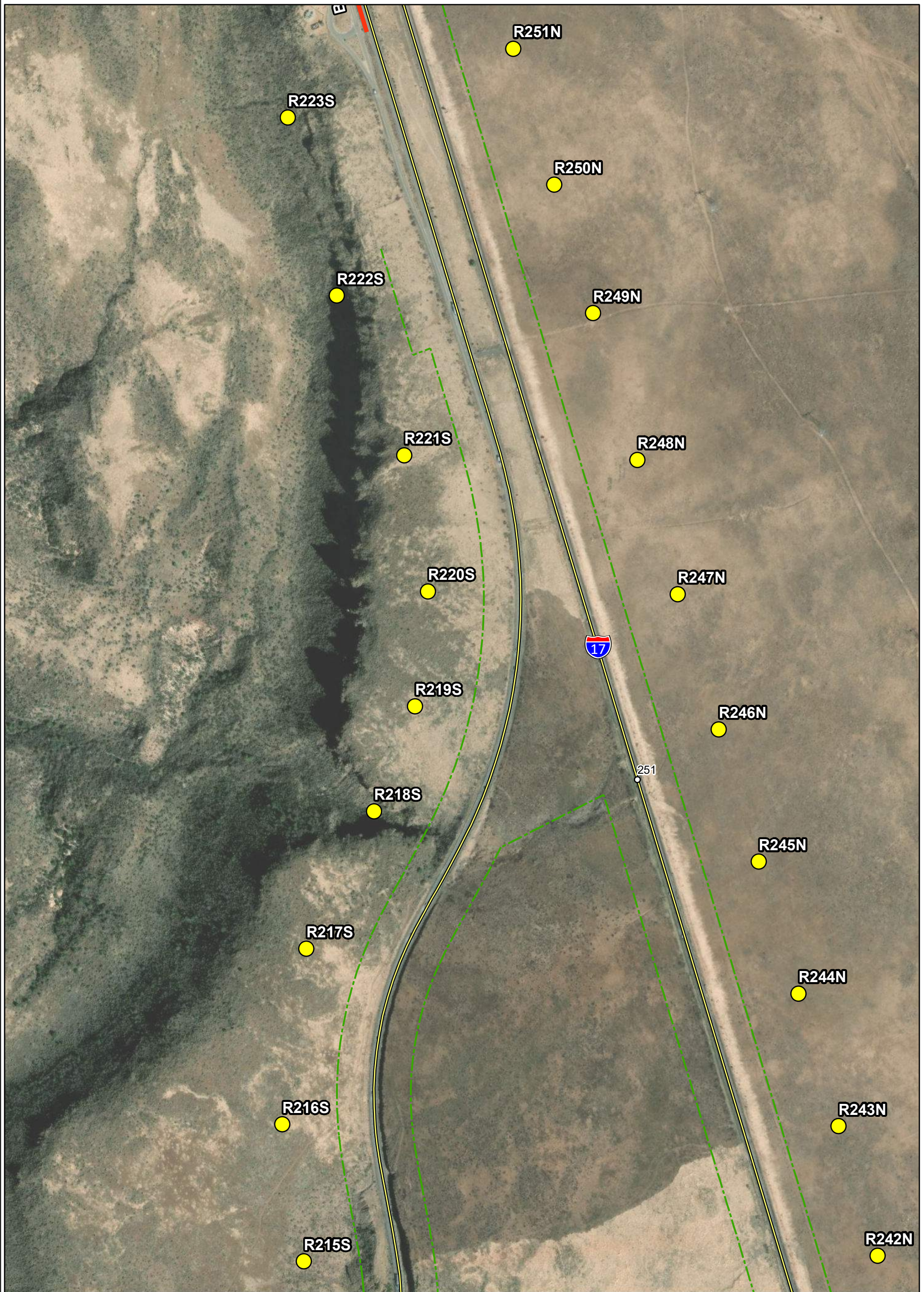


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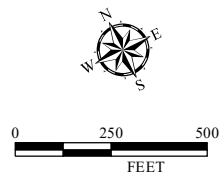
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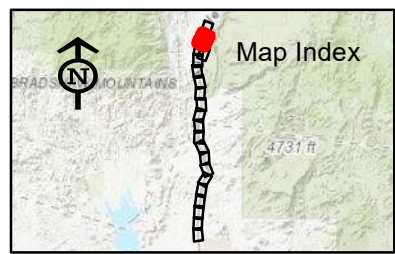


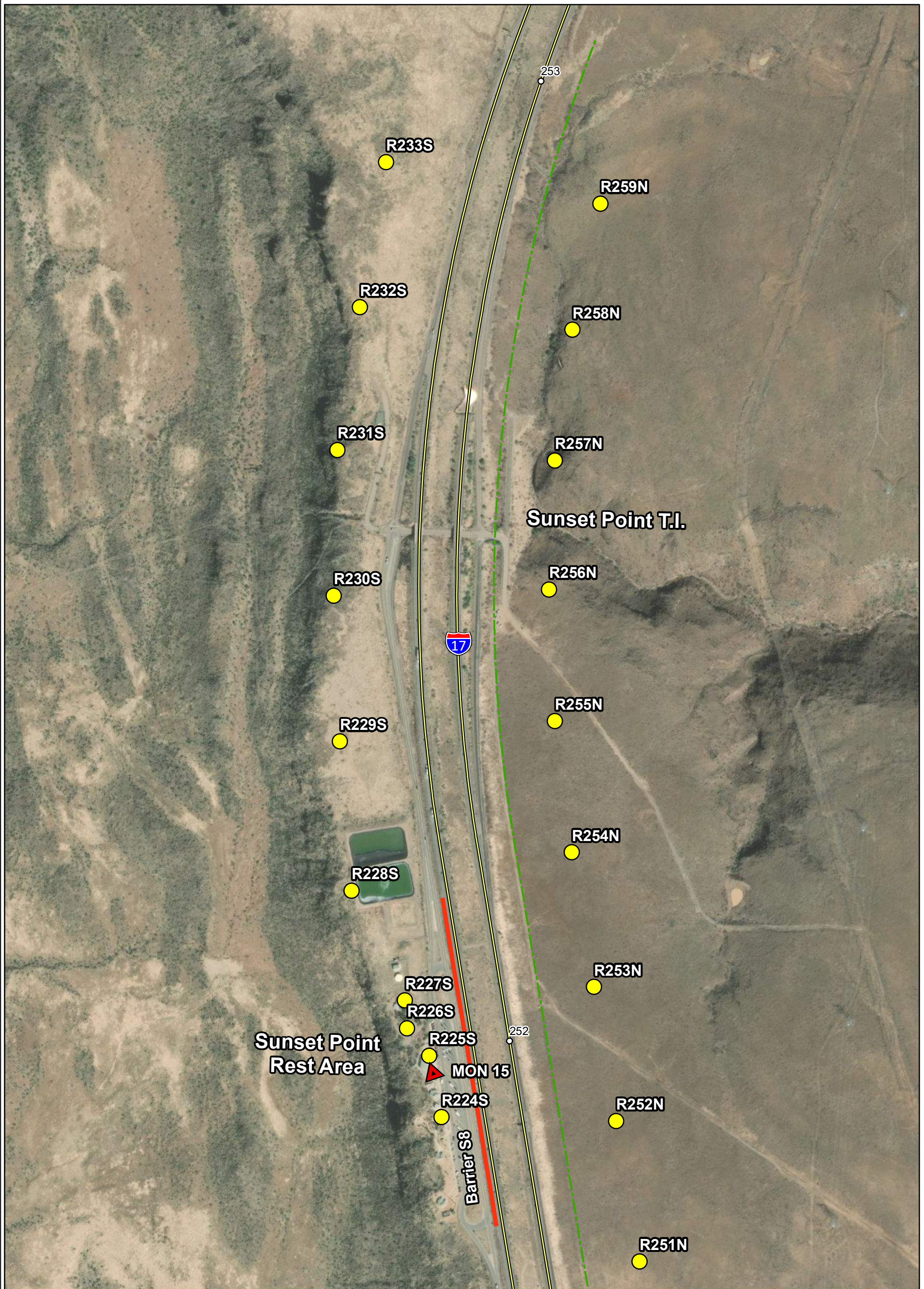
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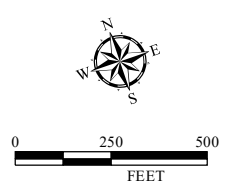
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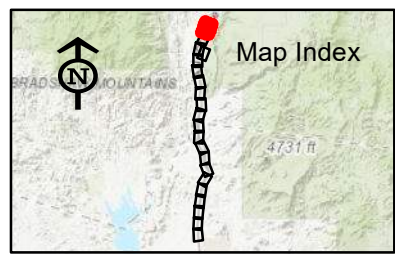


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**Legend**

- R/W
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- Mileposts



## APPENDIX B – NOISE BARRIER SUMMARY

During both the DCR and this Final Design Noise Analysis, a total of 15 noise barriers were evaluated. In the 2018 DCR Noise Analysis, three barriers were recommended (Barrier S2, Barrier N3, and Barrier S6). During this Final Design Noise Analysis, all three barriers are recommended with slight modifications to Barriers S2 and N3.

### I-17, Anthem Way TI to Junction SR 69 Noise Barrier Analysis

Noise Barrier Description	Barrier Height Range, ft	Length, ft	Area, ft <sup>2</sup>	Cost	Number of Benefited Receptors	Cost per Benefited Receptor	Barrier Recommended? Yes or No
Barrier N1 (Sta 1496+05 to Sta 1512+38)	20	1,649	32,974	\$1,154,090	17	\$67,888	No
Barrier N2 (Sta 1610+00 to Sta 1627+99)	14	1,800	25,201	\$882,035	3	\$294,012	No
Barrier S1 (Sta 1529+98 to Sta 1543+92)	14	1,400	19,601	\$686,035	1	\$686,035	No
Barrier S2 (Sta 1542+00 to Sta 1577+96)	14 - 16	3,600	51,199	\$1,791,965	41	\$43,706	Yes
Barrier S3 (Sta 1618+89 to Sta 1643+93)	20	2,800	55,997	\$1,959,895	2	\$979,948	No
Barrier N3 (Sta 1700+00 to Sta 1709+99)	12 - 14	1,000	13,600	\$476,000	10	\$47,600	Yes
Barrier N4 (Sta 1731+00 to Sta 1741+00)	24	1,000	24,001	\$840,035	0	N/A	No
Barrier S4 (Sta 1646+69 to Sta 1680+41)	20	3,600	72,000	\$2,520,000	6	\$420,000	No
Barrier S5 (Sta 1690+00 to Sta 1700+00)	18	1,000	18,000	\$630,000	1	\$630,000	No
Barrier N5 (Sta 2189+91 to Sta 2191+00)	14	1,200	16,799	\$587,965	1	\$587,965	No
Barrier N6 (Sta 2192+00 to Sta 2233+49)	14	4,149	58,090	\$2,033,150	11	\$184,832	No
Barrier N7 (Sta 2240+00 to Sta 2283+72)	14	4,400	61,600	\$2,156,000	28	\$77,000	No
Barrier S6 (Sta 2215+00 to Sta 2233+00)	16 - 18	1,800	29,998	\$1,049,930	43	\$24,417	Yes
Barrier S7 (Sta 2243+99 to Sta 2287+20)	20	4,536	90,730	\$3,175,550	4	\$793,888	No
Barrier S8 (Sta 2672+99 to Sta 2691+00)	14	1,800	25,200	\$882,000	2	\$441,000	No

**Note:**

Barrier N3:

Percentage of First Row Receptors with 7+ dBA noise reduction: 100.0%

Percentage of Impacted Receptors with 5+ dBA noise reduction: 100.0%

Barrier S2:

Percentage of First Row Receptors with 7+ dBA noise reduction: 66.6%

Percentage of Impacted Receptors with 5+ dBA noise reduction: 100.0%

Barrier S6:

Percentage of First Row Receptors with 7+ dBA noise reduction: 86.7%

Percentage of Impacted Receptors with 5+ dBA noise reduction: 100.0%

## APPENDIX C – PREDICTED NOISE LEVEL RESULTS

**Modeled Noise Level Results**  
**Section 1: Anthem Way to New River Road - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	Future Build Unmitigated (dBA)	Future Build Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R1N	Category B	3	Sandpiper Subdivision	60	59	1	Barrier N1 NOT Recommended, See Barrier Analysis Summary Table
R2N	Category B	3	Sandpiper Subdivision	61	60	1	
R3N	Category B	3	Sandpiper Subdivision	62	62	0	
R4N	Category B	2	Sandpiper Subdivision	60	58	2	
R5N	Category B	3	Sandpiper Subdivision	61	58	3	
R6N	Category B	2	Sandpiper Subdivision	61	59	2	
R7N	Category B	4	Sandpiper Subdivision	55	53	2	
R8N	Category B	2	Sandpiper Subdivision	58	55	3	
R9N	Category B	3	Sandpiper Subdivision	59	55	4	
R10N	Category B	3	Sandpiper Subdivision	60	57	3	
R11N	Category B	3	Sandpiper Subdivision	58	57	1	
R12N	Category B	2	Firethorn Subdivision	65	59	6	
R13N	Category B	3	Firethorn Subdivision	68	60	8	
R14N	Category B	2	Firethorn Subdivision	65	59	6	
R15N	Category B	2	Firethorn Subdivision	65	60	5	
R16N	Category B	5	Firethorn Subdivision	63	58	5	
R17N	Category B	4	Firethorn Subdivision	62	58	4	
R18N	Category B	3	Firethorn Subdivision	67	61	6	
R19N	Category B	5	Firethorn Subdivision	60	57	3	
R20N	Category B	3	Firethorn Subdivision	63	61	2	
R21N	Category B	3	Firethorn Subdivision	63	59	4	
R22N	Category B	4	Firethorn Subdivision	62	61	1	
R23N	Category B	2	Firethorn Subdivision	64	63	1	
R24N	Category B	2	Firethorn Subdivision	61	60	1	
R25N	Category B	2	Firethorn Subdivision	66	66	0	
R26N	Category B	3	Firethorn Subdivision	65	64	1	
R27N	Category B	2	Firethorn Subdivision	66	66	0	
R28N	Category B	3	Firethorn Subdivision	64	63	1	
R29N	Category B	3	Firethorn Subdivision	63	62	1	
R30N	Category B	2	Firethorn Subdivision	63	62	1	
R31N	Category G	1	Vacant Land	68	---	---	Noise level less than limits, or Category G, no barrier analysis warranted
R32N	Category G	1	Vacant Land	68	---	---	
R33N	Category G	1	Vacant Land	70	---	---	
R35N	Category F	1	Anthem RV and Boats Sales	72	---	---	

**Modeled Noise Level Results**  
**Section 1: Anthem Way to New River Road - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	Future Build Unmitigated (dBA)	Future Build Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R34N	Category B	8	Beazer Homes Arroyo Norte	58	---	---	Noise level less than limits, or Category G, no barrier analysis warranted
R36N	Category B	1	3920 W Teresa Ln	63	---	---	
R37N	Category B	1	3902 W Teresa Ln	60	---	---	
R38N	Category B	1	3848 W Teresa Ln	58	---	---	
R39N	Category B	4	44028 N Hudson Tr	57	---	---	
R40N	Category B	1	3849 W CIRCLE MOUNTAIN RD N	58	---	---	
R41N	Category B	2	44052 N Hudson Tr	57	---	---	
R42N	Category G	1	Valley Ridge Estates - Pre-Submittal/Pre-Approval Medium Lot Residential	70	---	---	
R43N	Category G	1		69	---	---	
R44N	Category G	1		70	---	---	
R45N	Category B	2	Residences north of Circle Mountain Road & East of I-17	65	---	---	
R46N	Category G	1	Valley Ridge Estates - Pre-Submittal/Pre-Approval Medium Lot Residential	69	---	---	
R47N	Category G	1		70	---	---	
R48N	Category G	1		69	---	---	
R49N	Category G	1		69	---	---	
R50N	Category B	1	Residence N of W Jenny Lin Rd	58	---	---	
R51N	Category B	1	Residence N of W Jenny Lin Rd	65	---	---	
R52N	Category B	1	Residence on N 39th Ave	58	---	---	
R53N	Category B	1	Residence N of N 38th Ave	65	---	---	
R54N	Category B	1	Residence N of N 38th Ave	61	---	---	
R55N	Category B	1	Residence N of N 38th Ave	65	---	---	
R56N	Category E	1	The Station Restaurant	77	66	11	Barrier N2 NOT Recommended, See Barrier Analysis Summary Table
R57N	Category B	1	Residence west of I-17 Frontage	68	61	7	
R58N	Category B	1	Residence west of I-17 Frontage	67	61	6	
R59N	Category B	1	Residence west of I-17 Frontage	63	61	2	
R60N	Category B	1	Residence west of I-17 Frontage	61	---	---	Noise level less than limits, or Category G, no barrier analysis
R61N	Category G	1	Vacant Land	67	---	---	
R62N	Category G	1	Vacant Land	65	---	---	

**Modeled Noise Level Results**  
**Section 1: Anthem Way to New River Road - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	Future Build Unmitigated (dBA)	Future Build Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R1S	Category E	1	Anthem Outlets	61	---	---	Noise levels less than limits
R2S	Category E	1	Anthem Outlets	64	---	---	
R3S	Category E	1	Anthem Outlets	65	---	---	
R4S	Category E	1	Anthem Outlets	65	---	---	
R5S	Category E	1	Anthem Outlets	66	---	---	
R6S	Category E	1	Anthem Outlets	68	---	---	
R7S	Category E	1	Goodwill Retail Store	68	---	---	
R8S	Category E	1	Old West Cactus Farms	69	---	---	
R9S	Category E	1	Old West Cactus Farms	67	---	---	
R10S	Category B	1	43608 N BLACK CANYON HWY	61	---	---	
R11S	Category G	1	Future Land Use - Zoned single-family residential	71	---	---	
R12S	Category G	1	Future Land Use - Zoned single-family residential	63	---	---	
R13S	Category G	1	Future Land Use - Zoned single-family residential	67	---	---	
R14S	Category E	1	43912 N BLACK CANYON HWY - Commercial	73	66	7	Barrier S1 NOT Recommended
R15S	Category F	1	Covered Wagon RV and Boat Storage	70	---	---	No noise limit
R16S	Category B	4	Anthem Circle Mountain Subdivision	68	63	5	Barrier S2 Recommended, See Barrier Summary Table
R16aS	Category B	4	Anthem Circle Mountain Subdivision	70	64	6	
R16bS	Category B	4	Anthem Circle Mountain Subdivision	68	63	5	
R17S	Category B	4	Anthem Circle Mountain Subdivision	67	61	6	
R17aS	Category B	5	Anthem Circle Mountain Subdivision	69	62	7	
R17bS	Category B	6	Anthem Circle Mountain Subdivision	69	62	7	
R18S	Category B	4	Anthem Circle Mountain Subdivision	68	62	6	
R18aS	Category B	2	Anthem Circle Mountain Subdivision	71	64	7	
R19S	Category B	4	Anthem Circle Mountain Subdivision	68	63	5	
R19aS	Category B	4	Anthem Circle Mountain Subdivision	71	64	7	



**Modeled Noise Level Results**  
**Section 1: Anthem Way to New River Road - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	Future Build Unmitigated (dBA)	Future Build Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R20S	Category G	1	Vacant Land	66	---	---	Noise levels less than limits, or Category G
R21S	Category B	2	Canyon Hwy	64	---	---	
R22S	Category B	1	Canyon Hwy	65	---	---	
R23S	Category B	1	Residences on Plot 45400 N Black Canyon Hwy	65	---	---	Noise levels less than limits, or Category G
R24S	Category G	1	Vacant Land	67	---	---	
R25S	Category G	1	Vacant Land	64	---	---	
R26S	Category B	1	45840 N Black Canyon Hwy	65	---	---	
R27S	Category G	1	Vacant Land	66	---	---	
R28S	Category G	1	Future Land Use - Zoned Specialty Commercial	64	---	---	
R29S	Category G	1	Vacant Land	69	---	---	
R30S	Category B	1	46417 N 41st Dr	70	68	2	Barrier S3 NOT Recommended, See Barrier Summary Table
R31S	Category B	2	4049 W F Bond Rd	71	67	4	
R32S	Category B	1	46519 N 41st Dr	68	66	2	
R33S	Category B	1	46611 N 41st Ave	67	64	3	
R34S	Category B	1	46633 N 41st Ave	65	63	2	
R35S	Category B	1	46913 N 40th Dr	67	61	6	
R36S	Category B	1	46910 N 40th Dr	63	60	3	
R37S	Category B	1	46917 N 41st Ave	63	60	3	
R38S	Category B	1	46925 N 40th Dr	67	61	6	

**Modeled Noise Level Results**  
**Section 2: New River Road to Table Mesa Road - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R63N	Category G	1	Abandoned Jack Ass Acres	65	65	---	---	Noise levels less than limits, or Category G
R64N	Category G	1	Vacant Land	67	67	---	---	
R65N	Category G	1	Vacant Land	65	64	---	---	
R66N	Category B	1	Residence N of N New River Rd	61	60	---	---	
R67N	Category B	1	Residence N of N New River Rd	61	61	---	---	
R68N	Category E	1	Foothills Veterinary Service	59	59	---	---	
R69N	Category B	1	Residence N of N New River Rd	58	58	---	---	
R70N	Category B	1	Residence N of N New River Rd	60	60	---	---	
R71N	Category B	1	Residence N of N New River Rd	55	55	---	---	
R72N	Category B	1	Residence N of N New River Rd	58	58	---	---	
R73N	Category E	1	Neighborhood Storage	58	58	---	---	
R74N	Category B	1	Residence N of N New River Rd	58	58	---	---	
R75N	Category C	5	New River Elementary School	58	58	---	---	
R76N	Category C	5		61	61	59	2	
R77N	Category C	5		61	61	58	3	
R78N	Category C	5		64	63	60	3	
R78aN	Category C	5		63	62	59	3	
R79N	Category C	5		67	67	60	7	
R79aN	Category C	5		66	65	60	5	
R80N	Category G	1	Vacant Land	65	65	---	---	Noise levels less than limits, or Category G
R81N	Category G	1	Vacant Land	66	65	---	---	
R82N	Category G	1	Vacant Land	66	65	---	---	
R83N	Category G	1	Vacant Land	65	65	---	---	
R84N	Category B	1	49820 N 36th Ave	66	66	62	4	Barrier N4 NOT Recommended
R85N	Category G	1	Vacant Land	66	66	---	---	Noise levels less than limits, or Category G
R86N	Category G	1	Vacant Land	67	67	---	---	
R87N	Category B	1	52011 N 36th Ave	64	64	---	---	
R88N	Category G	1	Vacant Land	66	66	---	---	
R89N	Category B	1	52013 N 36th Ave	62	62	---	---	
R90N	Category G	1	Vacant Land	66	66	---	---	
R91N	Category G	1	Vacant Land	65	65	---	---	
R92N	Category B	1	51011 N 35th Ave	60	60	---	---	
R93N	Category G	1	Vacant Land	63	63	---	---	

**Modeled Noise Level Results**  
**Section 2: New River Road to Table Mesa Road - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	Future Build Unmitigated (dBA)	Future Build Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R94N	Category B	1	51017 N 35th Ave	61	---	---	Noise levels less than limits, or Category G
R95N	Category B	1	51039 N 35th Ave	62	---	---	
R96N	Category G	1	Vacant Land	63	---	---	
R97N	Category G	1	Vacant Land	65	---	---	
R98N	Category G	1	Vacant Land	67	---	---	
R99N	Category G	1	Vacant Land	66	---	---	
R100N	Category G	1	Vacant Land	67	---	---	
R101N	Category G	1	Vacant Land	67	---	---	
R102N	Category G	1	Vacant Land	66	---	---	
R103N	Category G	1	Vacant Land	65	---	---	
R104N	Category G	1	Vacant Land	64	---	---	
R105N	Category G	1	Vacant Land	63	---	---	
R106N	Category G	1	Vacant Land	62	---	---	

**Modeled Noise Level Results**  
**Section 2: New River Road to Table Mesa Road - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R39S	Category G	1	Vacant Land	69	69	---	---	Category G
R40S	Category G	1	Vacant Land	70	70	---	---	
R41S	Category B	1	4044 W TWIN PEAKS LN	66	66	60	6	Barrier S4 NOT Recommended, See Barrier Analysis Summary Table
R42S	Category B	1	47615 N 41ST AVE	64	64	59	5	
R43S	Category B	1	47705 N 41ST AVE	64	64	59	5	
R44S	Category B	1	47719 N 41ST AVE	64	64	59	5	
R45S	Category B	1	47720 N 40TH AVE	68	67	61	6	
R46S	Category B	1	47811 N 41ST AVE	64	64	60	4	
R47S	Category B	1	47819 N 41ST AVE	69	69	65	4	
R48S	Category B	1	47911 N 41ST AVE	65	64	62	2	
R49S	Category B	1	48001 N 41ST AVE	72	72	67	5	
R50S	Category B	1	48011 N 41ST AVE	69	69	67	2	
R51S	Category B	1	48007 N 41ST AVE	66	66	64	2	
R52S	Category B	1	48101 N 41ST AVE	67	67	65	2	
R53S	Category G	1	Vacant Land	68	68	---	---	Category G
R54S	Category G	1	Vacant Land	68	68	---	---	
R55S	Category G	1	Vacant Land	67	67	---	---	
R56S	Category B	1	48628 N BLACK CANYON HWY	72	71	63	8	Barrier S5 NOT Recommended, See
R57S	Category B	1	48628 N BLACK CANYON HWY	70	70	66	4	
R58S	Category B	1	48628 N BLACK CANYON HWY	55	55	---	---	Noise levels less than limits, or Category G
R59S	Category G	1	Vacant Land	69	69	---	---	
R60S	Category G	1	Vacant Land	67	67	---	---	
R61S	Category G	1	Vacant Land	68	68	---	---	
R62S	Category G	1	Vacant Land	68	68	---	---	
R63S	Category G	1	Vacant Land	70	70	---	---	
R64S	Category G	1	Vacant Land	70	70	---	---	
R65S	Category G	1	Vacant Land	68	68	---	---	
R66S	Category G	1	Vacant Land	69	69	---	---	
R67S	Category G	1	Vacant Land	70	70	---	---	
R68S	Category G	1	Vacant Land	72	72	---	---	
R69S	Category G	1	Vacant Land	65	65	---	---	
R70S	Category G	1	Vacant Land	64	64	---	---	
R71S	Category G	1	Vacant Land	69	69	---	---	
R72S	Category G	1	Vacant Land	65	65	---	---	

**Modeled Noise Level Results**  
**Section 2: New River Road to Table Mesa Road - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R73S	Category G	1	Vacant Land	67	67	---	---	Noise levels less than limits, or Category G
R74S	Category G	1	Vacant Land	68	68	---	---	
R75S	Category G	1	Vacant Land	69	69	---	---	
R76S	Category G	1	Vacant Land	68	68	---	---	
R77S	Category G	1	Vacant Land	61	60	---	---	
R78S	Category G	1	Vacant Land	67	67	---	---	
R79S	Category G	1	Vacant Land	66	66	---	---	

## Modeled Noise Level Results

### Section 3: Table Mesa Road to Velda Rose Road - East

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R107N	Category G	1	Vacant Land	70	70	---	---	Category G, no noise limits
R108N	Category G	1	Vacant Land	72	72	---	---	
R109N	Category G	1	Vacant Land	69	69	---	---	
R110N	Category G	1	Vacant Land	68	68	---	---	
R111N	Category G	1	Vacant Land	70	71	---	---	
R112N	Category G	1	Vacant Land	68	67	---	---	
R113N	Category G	1	Vacant Land	66	66	---	---	
R114N	Category G	1	Vacant Land	66	65	---	---	
R115N	Category G	1	Vacant Land	64	64	---	---	
R116N	Category G	1	Vacant Land	72	72	---	---	
R117N	Category G	1	Vacant Land	68	68	---	---	
R118N	Category G	1	Vacant Land	71	71	---	---	
R119N	Category G	1	Vacant Land	58	58	---	---	
R120N	Category G	1	Vacant Land	67	67	---	---	
R121N	Category G	1	Vacant Land	68	68	---	---	
R122N	Category G	1	Vacant Land	58	58	---	---	
R123N	Category G	1	Vacant Land	64	64	---	---	
R124N	Category G	1	Vacant Land	67	67	---	---	
R125N	Category G	1	Vacant Land	67	67	---	---	
R126N	Category G	1	Vacant Land	67	67	---	---	
R127N	Category G	1	Vacant Land	67	67	---	---	
R128N	Category G	1	Vacant Land	68	68	---	---	
R129N	Category G	1	Vacant Land	65	64	---	---	
R130N	Category G	1	Vacant Land	67	67	---	---	
R131N	Category G	1	Vacant Land	61	61	---	---	
R132N	Category G	1	Vacant Land	68	68	---	---	
R133N	Category G	1	Vacant Land	71	71	---	---	
R134N	Category G	1	Vacant Land	69	69	---	---	
R135N	Category G	1	Vacant Land	69	69	---	---	

**Modeled Noise Level Results**  
**Section 3: Table Mesa Road to Velda Rose Road - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R136N	Category G	1	Vacant Land	66	66	---	---	Category G, no noise limits
R137N	Category G	1	Vacant Land	68	68	---	---	
R138N	Category G	1	Vacant Land	58	58	---	---	
R139N	Category G	1	Vacant Land	59	59	---	---	
R140N	Category G	1	Vacant Land	65	65	---	---	
R141N	Category G	1	Vacant Land	72	72	---	---	
R142N	Category G	1	Vacant Land	70	70	---	---	
R143N	Category G	1	Vacant Land	64	64	---	---	
R144N	Category G	1	Vacant Land	66	66	---	---	
R145N	Category G	1	Vacant Land	61	61	---	---	
R146N	Category G	1	Vacant Land	64	63	---	---	
R147N	Category G	1	Vacant Land	63	62	---	---	
R148N	Category G	1	Vacant Land	63	66	---	---	
R149N	Category G	1	Vacant Land	64	64	---	---	

## Modeled Noise Level Results

### Section 3: Table Mesa Road to Velda Rose Road - West

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R80S	Category G	1	Vacant Land	68	68	---	---	Category F or G, or noise level less than limits
R81S	Category G	1	Vacant Land	67	67	---	---	
R82S	Category G	1	Vacant Land	70	71	---	---	
R83S	Category G	1	Vacant Land	70	70	---	---	
R84S	Category G	1	Vacant Land	65	65	---	---	
R85S	Category G	1	Vacant Land	56	55	---	---	
R86S	Category G	1	Vacant Land	66	66	---	---	
R87S	Category G	1	Vacant Land	63	63	---	---	
R88S	Category G	1	Vacant Land	55	55	---	---	
R89S	Category G	1	Vacant Land	60	61	---	---	
R90S	Category G	1	Vacant Land	66	66	---	---	
R91S	Category G	1	Vacant Land	63	63	---	---	
R92S	Category G	1	Vacant Land	62	62	---	---	
R93S	Category G	1	Vacant Land	63	64	---	---	
R94S	Category G	1	Vacant Land	60	59	---	---	
R95S	Category G	1	Vacant Land	56	56	---	---	
R96S	Category G	1	Vacant Land	60	59	---	---	
R97S	Category G	1	Vacant Land	63	63	---	---	
R98S	Category G	1	Vacant Land	59	58	---	---	
R99S	Category G	1	Vacant Land	57	57	---	---	
R100S	Category G	1	Vacant Land	65	65	---	---	
R101S	Category G	1	Vacant Land	66	66	---	---	
R102S	Category G	1	Vacant Land	61	61	---	---	
R103S	Category G	1	Vacant Land	63	63	---	---	
R104S	Category G	1	Vacant Land	65	65	---	---	
R105S	Category G	1	Vacant Land	66	66	---	---	
R106S	Category G	1	Vacant Land	57	56	---	---	
R107S	Category G	1	Vacant Land	66	66	---	---	
R108S	Category G	1	Vacant Land	61	61	---	---	
R109S	Category G	1	Vacant Land	67	67	---	---	



**Modeled Noise Level Results**  
**Section 3: Table Mesa Road to Velda Rose Road - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R110S	Category G	1	Vacant Land	71	71	---	---	Category F or G, or noise level less than limits
R111S	Category G	1	Vacant Land	71	72	---	---	
R112S	Category G	1	Vacant Land	72	72	---	---	
R113S	Category G	1	Vacant Land	68	68	---	---	
R114S	Category G	1	Vacant Land	67	67	---	---	
R115S	Category G	1	Vacant Land	65	65	---	---	
R116S	Category G	1	Vacant Land	59	59	---	---	
R117S	Category G	1	Vacant Land	65	65	---	---	
R118S	Category G	1	Vacant Land	65	65	---	---	
R119S	Category F	1	76 Gas Station	74	74	---	---	
R120S	Category E	1	Rock Springs Café	67	67	---	---	
R121S	Category E	1	Rock Springs Farmers Market	68	67	---	---	
R122S	Category B	1	35884 S Old Black Canyon Hwy	62	61	---	---	
R123S	Category B	4	35545 S Warner Rd	64	63	---	---	

**Modeled Noise Level Results**  
**Section 4: Velda Rose Road to Black Canyon City TI - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R150N	Category B	1	35101 S Velda Rose Rd	72	72	64	8	Barrier N5 NOT Recommended
R151N	Category G	1	Vacant Land	68	68	---	---	Category G
R152N	Category G	1	Vacant Land	70	70	67	3	Barrier N6 NOT Recommended, See Barrier Analysis Summary Table
R153N	Category B	1	19600 E St Josephs Rd	65	64	62	2	
R154N	Category E	1	Black Canyon Sheriff Substation	74	74	66	8	
R155N	Category B	1	34975 School Loop Rd	66	66	61	5	
R156N	Category E	1	VFW Post 1796 (Post Office)	73	73	65	8	
R157N	Category E	1	Cannon Elementary School	65	65	59	6	
R158N	Category B	1	34631 S Velda Rose Rd	65	65	58	7	
R159N	Category B	1	34661 S Velda Rose Rd	73	73	63	10	
R160N	Category B	1	34664 S Velda Rose Rd	71	71	63	8	
R161N	Category B	1	34670 S Velda Rose Rd	73	73	62	11	
R162N	Category B	1	34650 S Velda Rose Rd	66	66	59	7	
R163N	Category B	1	34420 S Velda Rose Rd	63	63	58	5	
R164N	Category B	1	34370 S Velda Rose Rd	64	64	59	5	
R165N	Category B	1	34310 S Velda Rose Rd	62	61	58	3	
R166N	Category B	1	34270 S Reynolds Rd	69	69	62	7	
R167N	Category B	1	34200 S Reynolds Rd	70	70	63	7	
R168N	Category B	1	Residence within the parcel address 34100 S Reynolds Rd	71	71	64	7	
R169N	Category B	1	34150 S Luellen Dr	67	66	62	4	
R170N	Category B	1	Residence within the parcel address 34100 S Reynolds Rd	76	76	66	10	
R171N	Category B	1	34100 S Luellen Dr	67	67	64	3	
R172N	Category B	1	Residence within the parcel address 34100 S Reynolds Rd	74	74	67	7	
R173N	Category B	1	Residence within the parcel address 34100 S Reynolds Rd	70	70	65	5	

**Modeled Noise Level Results**  
**Section 4: Velda Rose Road to Black Canyon City TI - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R174N	Category B	1	19691 E Indian Hills Dr	69	69	64	5	Barrier N7 NOT Recommended, See Barrier Analysis Summary Table
R175N	Category B	3	19741 E Indian Hills Dr	69	68	63	5	
R176N	Category B	2	19701 E Indian Hills Dr	72	72	65	7	
R177N	Category B	1	33725 S Park Ln	65	65	61	4	
R179N	Category B	3	19700 E Indian Hills Dr	69	69	63	6	
R178N	Category B	2	19720 E Indian Hills Dr	72	72	64	8	
R180N	Category B	3	33690 S Park Ln	65	65	60	5	
R181N	Category B	1	19700 E Green Valley Rd	71	71	63	8	
R183N	Category B	2	19720 E Green Valley Rd	66	65	60	5	
R182N	Category B	2	19730 E Green Valley Rd	71	71	63	8	
R184N	Category B	1	19701 E Squaw Valley Pkwy	72	72	63	9	
R185N	Category B	1	19630 E Squaw Valley Pkwy	69	69	61	8	
R186N	Category B	1	19745 E Squaw Valley Pkwy	67	66	60	6	
R187N	Category B	1	19725 E Squaw Valley Pkwy	76	76	68	8	
R188N	Category B	3	33470 S Coldwater Rd	65	65	60	5	
R189N	Category B	2	33430 S Coldwater Rd	72	72	67	5	
R190N	Category B	2	19715 E Squaw Valley Dr	68	67	63	4	
R191N	Category B	2	19701 E Squaw Valley Dr	71	71	62	9	
R192N	Category B	2	19671 E Squaw Valley Dr	71	71	63	8	
R193N	Category B	2	19725 E Squaw Valley Dr	67	67	60	7	
R194N	Category B	2	19768 E Squaw Valley Dr	65	65	59	6	
R195N	Category B	1	19720 E Squaw Valley Dr	68	68	60	8	
R196N	Category B	2	19700 E Squaw Valley Dr	69	69	61	8	
R197N	Category B	3	33250 S Coldwater Rd	64	64	58	6	
R198N	Category B	1	19721 E Trail Rd	62	61	56	5	
R199N	Category B	2	33220 S Edwards Ln	62	62	57	5	
R200N	Category B	1	33150 S Coldwater Rd	75	75	70	5	
R201N	Category E	1	Chilleens On 17	74	74	71	3	

**Modeled Noise Level Results**  
**Section 4: Velda Rose Road to Black Canyon City TI - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R124S	Category G	1	Vacant Land	62	62	---	---	Noise levels less than limits, or Category G
R125S	Category G	1	Vacant Land	67	67	---	---	
R126S	Category E	1	Black Canyon Fire Dept	67	67	---	---	
R127S	Category E	1	19375 E Oasis Dr - Canyon Oasis Center	69	69	---	---	
R128S	Category C	1	St. Philip Benizi Catholic Church	61	61	---	---	
R129S	Category C	2	Black Canyon Community Church & Black Canyon Community Library	59	59	---	---	
R130S	Category B	2	34791 S Mud Springs Rd	57	57	---	---	
R131S	Category E	1	Black Canyon Fire Dept	63	62	---	---	
R132S	Category B	6	Residence on NE corner of Gregory St & Club Oasis Dr	68	66	61	5	
R133S	Category B	4	Residences on the SW corner of Cactus Wren Dr & Gregory St	71	70	63	7	
R134S	Category B	1	19450 E Church St	66	66	61	5	
R135S	Category B	10	Residences on the SW corner of E Silver Sage Dr & Gregory St	69	69	62	7	
R136S	Category B	6	Residences on the NW corner of E Silver Sage Dr & Gregory St	67	64	59	5	
R137S	Category B	2	Residence on the NW corner of E Silver Sage Dr & Sunset Dr	68	71	63	8	
R137aS	Category B	10	Residence on the NW corner of E Silver Sage Dr & Sunset Dr	71	68	61	7	
R138S	Category B	2	19480 E Abbott St	66	66	61	5	
R139S	Category B	2	19480 E Spence St	66	65	61	4	
R140S	Category B	4	19500 E Gregory St	70	69	63	6	
R141S	Category B	2	19465 E Todd Evans Rd	66	65	61	4	
R142S	Category B	1	19455 E Todd Evans Rd	63	60	57	3	
R143S	Category B	1	19450 E Todd Evans Road	63	62	60	2	
R144S	Category B	1	19480 E Todd Evans Rd - Rondevous	65	65	62	3	
R145S	Category B	1	19370 E Todd Evans Road	61	61	59	2	
R146S	Category B	1	19491 E Indian Hills Dr	65	65	64	1	Barrier S7 NOT Recommended, See Barrier Analysis Summary Table
R147S	Category E	1	Calvary Chapel	64	64	63	1	
R148S	Category B	3	19540 E Indian Hills Dr	69	68	64	4	

## Modeled Noise Level Results

### Section 4: Velda Rose Road to Black Canyon City TI - West

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R149S	Category B	1	19500 E Indian Hills Dr	67	66	64	2	Barrier S7 NOT Recommended, See Barrier Analysis Summary Table
R150S	Category B	3	19490 E Indian Hills Dr	64	64	63	1	
R151S	Category B	1	19535 E Green Valley Rd	73	73	66	7	
R152S	Category B	2	33630 S Boyds Way	65	65	63	2	Barrier S7 NOT Recommended, See Barrier Analysis Summary Table
R153S	Category B	2	19500 E Wyatt Way	64	64	62	2	
R154S	Category B	1	19527 E Squaw Pkwy	68	67	64	3	
R155S	Category B	3	19455 E Scenic Loop	64	63	62	1	
R156S	Category B	1	19530 E Squaw Pkwy	66	66	64	2	
R157S	Category B	1	19542 E Squaw Pkwy	71	71	67	4	
R158S	Category B	2	19495 E Hanfelt Way	67	67	66	1	
R159S	Category B	2	19545 E Scenic Loop	72	71	66	5	
R160S	Category B	2	19560 E Scenic Loop	71	71	69	2	
R161S	Category B	2	19565 E Scenic Loop	73	73	70	3	
R162S	Category B	2	19465 E Ridgecrest Dr	68	68	67	1	
R163S	Category B	2	19570 E Ridgecrest Dr	74	74	72	2	
R164S	Category B	1	19490 E Ridgecrest Dr	71	71	70	1	
R165S	Category B	1	33301 S Summit Dr	70	70	69	1	
R166S	Category B	1	19620 E Ridgecrest Dr	73	73	66	7	
R167S	Category B	1	33295 S Summit Dr	68	68	67	1	
R168S	Category B	1	19341 E Verde Pl	69	69	66	3	
R169S	Category B	1	33250 S Summit Dr	73	73	64	9	
R170S	Category B	1	33221 S Summit Dr	68	67	64	3	
R171S	Category B	2	33120 S Summit Dr	72	72	64	8	
R172S	Category B	2	33091 S Summit Dr	73	73	63	10	

**Modeled Noise Level Results**  
**Section 5: Black Canyon City TI to Sunset Point - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R202N	Category G	1	Vacant Land	64	64	---	---	Category G, no noise limits
R203N	Category G	1	Vacant Land	66	66	---	---	
R204N	Category G	1	Vacant Land	71	71	---	---	
R205N	Category G	1	Vacant Land	72	71	---	---	
R206N	Category G	1	Vacant Land	62	62	---	---	
R207N	Category G	1	Vacant Land	70	69	---	---	
R208N	Category G	1	Vacant Land	70	70	---	---	
R209N	Category G	1	Vacant Land	67	67	---	---	
R210N	Category G	1	Vacant Land	60	60	---	---	
R211N	Category G	1	Vacant Land	69	70	---	---	
R212N	Category G	1	Vacant Land	59	59	---	---	
R213N	Category G	1	Vacant Land	69	69	---	---	
R214N	Category G	1	Vacant Land	65	65	---	---	
R215N	Category G	1	Vacant Land	59	59	---	---	
R216N	Category G	1	Vacant Land	63	63	---	---	
R217N	Category G	1	Vacant Land	70	70	---	---	
R218N	Category G	1	Vacant Land	71	71	---	---	
R219N	Category G	1	Vacant Land	69	69	---	---	
R220N	Category G	1	Vacant Land	69	69	---	---	
R221N	Category G	1	Vacant Land	66	67	---	---	
R222N	Category G	1	Vacant Land	71	71	---	---	
R223N	Category G	1	Vacant Land	71	70	---	---	
R224N	Category G	1	Vacant Land	70	70	---	---	
R225N	Category G	1	Vacant Land	68	68	---	---	
R226N	Category G	1	Vacant Land	68	69	---	---	
R227N	Category G	1	Vacant Land	70	70	---	---	
R228N	Category G	1	Vacant Land	68	68	---	---	
R229N	Category G	1	Vacant Land	67	67	---	---	
R230N	Category G	1	Vacant Land	69	69	---	---	
R231N	Category G	1	Vacant Land	68	68	---	---	
R232N	Category G	1	Vacant Land	57	57	---	---	
R233N	Category G	1	Vacant Land	49	48	---	---	
R234N	Category G	1	Vacant Land	65	66	---	---	
R235N	Category G	1	Vacant Land	63	63	---	---	

**Modeled Noise Level Results**  
**Section 5: Black Canyon City TI to Sunset Point - East**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R236N	Category G	1	Vacant Land	61	61	---	---	Category G, no noise limits
R237N	Category G	1	Vacant Land	61	61	---	---	
R238N	Category G	1	Vacant Land	48	48	---	---	
R239N	Category G	1	Vacant Land	55	54	---	---	
R240N	Category G	1	Vacant Land	55	55	---	---	
R241N	Category G	1	Vacant Land	62	62	---	---	
R242N	Category G	1	Vacant Land	65	65	---	---	
R243N	Category G	1	Vacant Land	66	66	---	---	
R244N	Category G	1	Vacant Land	65	66	---	---	
R245N	Category G	1	Vacant Land	66	66	---	---	
R246N	Category G	1	Vacant Land	67	67	---	---	
R247N	Category G	1	Vacant Land	68	68	---	---	
R248N	Category G	1	Vacant Land	69	69	---	---	
R249N	Category G	1	Vacant Land	70	70	---	---	
R250N	Category G	1	Vacant Land	70	70	---	---	
R251N	Category G	1	Vacant Land	70	71	---	---	
R252N	Category G	1	Vacant Land	69	69	---	---	
R253N	Category G	1	Vacant Land	67	67	---	---	
R254N	Category G	1	Vacant Land	67	67	---	---	
R255N	Category G	1	Vacant Land	68	67	---	---	
R256N	Category G	1	Vacant Land	67	66	---	---	
R257N	Category G	1	Vacant Land	65	65	---	---	
R258N	Category G	1	Vacant Land	66	65	---	---	
R259N	Category G	1	Vacant Land	65	65	---	---	

**Modeled Noise Level Results**  
**Section 5: Black Canyon City TI to Sunset Point - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R173S	Category G	1	Abandoned Greyhound Race Park	58	57	---	---	Noise levels less than limits, or Category G
R174S	Category B	14	32776 S Maggie Mine Rd	53	53	---	---	
R175S	Category G	1	Vacant Land	63	62	---	---	
R176S	Category G	1	Vacant Land	65	64	---	---	
R177S	Category G	1	Vacant Land	57	56	---	---	
R178S	Category G	1	Vacant Land	65	64	---	---	
R179S	Category B	3	19201 E Squaw Peak Lane	60	59	---	---	
R180S	Category G	1	Vacant Land	67	66	---	---	
R181S	Category G	1	Vacant Land	68	67	---	---	
R182S	Category G	1	Vacant Land	71	71	---	---	
R183S	Category G	1	Vacant Land	66	65	---	---	
R184S	Category G	1	Vacant Land	66	64	---	---	
R185S	Category G	1	Vacant Land	67	66	---	---	
R186S	Category G	1	Vacant Land	68	67	---	---	
R187S	Category G	1	Vacant Land	67	66	---	---	
R188S	Category G	1	Vacant Land	62	61	---	---	
R189S	Category G	1	Vacant Land	65	63	---	---	
R190S	Category G	1	Vacant Land	62	61	---	---	
R191S	Category G	1	Vacant Land	66	65	---	---	
R192S	Category G	1	Vacant Land	67	66	---	---	
R193S	Category G	1	Vacant Land	68	67	---	---	
R194S	Category G	1	Vacant Land	67	67	---	---	
R195S	Category G	1	Vacant Land	70	69	---	---	
R196S	Category G	1	Vacant Land	64	63	---	---	
R197S	Category G	1	Vacant Land	67	66	---	---	
R198S	Category G	1	Vacant Land	66	65	---	---	
R199S	Category G	1	Vacant Land	64	63	---	---	
R200S	Category G	1	Vacant Land	70	69	---	---	
R201S	Category G	1	Vacant Land	72	72	---	---	
R202S	Category G	1	Vacant Land	69	69	---	---	
R203S	Category G	1	Vacant Land	65	64	---	---	
R204S	Category G	1	Vacant Land	71	70	---	---	
R205S	Category G	1	Vacant Land	67	66	---	---	
R206S	Category G	1	Vacant Land	65	64	---	---	



**Modeled Noise Level Results**  
**Section 5: Black Canyon City TI to Sunset Point - West**

Receiver ID	Category	No. of Dwelling Units	Description of Receiver	2018 DCR Future Build (2040) Unmitigated (dBA)	2022 Final Design Future Build (2040) Unmitigated (dBA)	Future Build (2040) Mitigated (dBA)	Insertion Loss (dBA)	Barrier Analysis
R207S	Category G	1	Vacant Land	65	64	---	---	Noise levels less than limits, or Category G
R208S	Category G	1	Vacant Land	67	67	---	---	
R209S	Category G	1	Vacant Land	68	67	---	---	
R210S	Category G	1	Vacant Land	62	61	---	---	
R211S	Category G	1	Vacant Land	66	64	---	---	
R212S	Category G	1	Vacant Land	67	66	---	---	
R213S	Category G	1	Vacant Land	65	64	---	---	
R214S	Category G	1	Vacant Land	68	67	---	---	
R215S	Category G	1	Vacant Land	71	71	---	---	
R216S	Category G	1	Vacant Land	66	65	---	---	
R217S	Category G	1	Vacant Land	64	63	---	---	
R218S	Category G	1	Vacant Land	47	46	---	---	
R219S	Category G	1	Vacant Land	68	68	---	---	
R220S	Category G	1	Vacant Land	68	67	---	---	
R221S	Category G	1	Vacant Land	66	65	---	---	
R222S	Category G	1	Vacant Land	45	44	---	---	
R223S	Category G	1	Vacant Land	48	47	---	---	
R224S	Category E	1	Sunset Point Rest Area/Truck Stop	72	72	63	9	Barrier S8 NOT Recommended
R225S	Category E	1	Sunset Point Rest Area/Truck Stop	72	72	64	8	
R226S	Category E	1	Sunset Point Rest Area/Truck Stop	67	67	62	5	
R227S	Category E	1	Sunset Point Rest Area/Truck Stop	69	68	63	5	
R228S	Category G	1	Vacant Land	66	66	---	---	Category G
R229S	Category G	1	Vacant Land	68	67	---	---	
R230S	Category G	1	Vacant Land	67	66	---	---	
R231S	Category G	1	Vacant Land	66	65	---	---	
R232S	Category G	1	Vacant Land	67	66	---	---	
R233S	Category G	1	Vacant Land	66	65	---	---	

APPENDIX D – TNM 2.5 TRAFFIC VOLUMES

## I-17, Anthem Way TI to Jct. SR 69 TNM 2.5 Traffic Volumes

MAG Traffic Demand Model (supplied by ADOT)						TNM Modeled Peak Hour Volumes		
Roadway Segment	AADT	10% of AADT	Auto%	MT%	HT%	Auto	MT	HT
I-17, Anthem Way to New River Rd, NB	29,390	2,939	74.3%	11.5%	14.2%	2,185	337	417
I-17, Anthem Way to New River Rd, SB	29,783	2,978	74.1%	11.7%	14.2%	2,208	347	423
I-17, New River Rd to Table Mesa Rd, NB	28,449	2,845	72.7%	12.1%	15.2%	2,069	344	432
I-17, New River Rd to Table Mesa Rd, SB	28,619	2,862	72.5%	12.3%	15.2%	2,076	352	434
I-17, Table Mesa Rd to Veida Rose Rd, NB	28,428	2,843	72.7%	12.1%	15.2%	2,067	344	432
I-17, Table Mesa Rd to Veida Rose Rd, SB	28,598	2,860	72.5%	12.3%	15.2%	2,074	352	434
I-17, North of Veida Rose Rd, NB	28,428	2,843	72.7%	12.1%	15.2%	2,067	344	432
I-17, North of Veida Rose Rd, SB	28,598	2,860	72.5%	12.3%	15.2%	2,074	352	434
Anthem Way NB OffRamp	10,224	1,022	92.7%	6.3%	1.0%	947	65	10
Anthem Way NB OnRamp	3,375	338	98.0%	1.1%	0.9%	331	4	3
Anthem Way SB OffRamp	3,604	360	97.3%	1.5%	1.1%	351	6	4
Anthem Way SB OnRamp	10,462	1,046	92.9%	6.1%	1.1%	972	64	11
New River NB OffRamp	5,394	539	98.1%	1.6%	0.3%	529	9	2
New River NB OnRamp	4,454	445	92.9%	3.5%	3.6%	414	16	16
New River SB OffRamp	4,260	426	93.6%	3.5%	2.9%	399	15	12
New River SB OnRamp	5,424	542	97.8%	1.9%	0.3%	531	10	2

## APPENDIX E – TNM FILE DESCRIPTIONS

## List of TNM Files

- Oasis\_BarrierS6\_v2
- S1\_Anthem-NR\_NB\_Build\_v2
- S1\_Anthem-NR\_SB\_Build\_v2
- S2\_NR-TMR\_NB\_Build\_v2
- S2\_NR-TMR\_SB\_Build\_v2
- S3\_TMR-VRR\_NB\_Build\_v2
- S3\_TMR-VRR\_SB\_Build\_v2
- S4\_VRR-SVR\_SB\_Build\_v2
- S4\_VRR-SVR1\_NB\_Build\_v2
- S4\_VRR-SVR2\_NB\_Build\_v2
- S5\_SVR-SPR\_NB\_Build\_v2
- S5\_SVR-SPR\_SB\_Build\_v2
- BarrierN3\_v6