

**Tri-State Montrose-Nucla-Cahone  
Transmission Line Improvement Project**

**Draft Plan of Development**

**Montrose, Ouray, San Miguel, and Dolores Counties, Colorado**

**Appendix A**

**Draft Access Road Siting and Management Plan**

## Appendix A

### Draft Access Road Siting and Management Plan

In Draft: Available Pending Selection of Preferred Alternative

The objective of this Draft Access Road Siting and Management Plan is to detail practices designed to address potential impacts from construction of the Tri-State Montrose-Nucla-Cahone Transmission Improvement Project (Project). Tri-State Generation and Transmission Association (Tri-State) has developed this plan as part of the Plan of Development (POD) that accompanies its application to the Bureau of Land Management (BLM) for a Right of Way (ROW) grant. If the ROW grant is approved, the final POD and all appendices will be attached to the Decision Record. This plan provides guidance to construction and field personnel on measures identified by Tri-State, BLM and US Forest Service (FS) to minimize effects during construction activities associated with the Project. It will be the responsibility of Tri-State and its project contractors, working with designated environmental inspectors, to comply with measures identified in this plan.

#### *Road Siting Plan*

Tri-State engineers and road staff will review structure locations and the existing road system in 2015 and 2016, including roads permitted in the 2007 ROW grant (COC-66840). New roads, estimated to total approximately 5 miles, will be identified and mapped in the Final POD. The number of total structures on the project will be reduced because of the greater span lengths and structure spacing of the 230-kV line. Tri-State will use the existing 115-kV road system for construction of the new 230-kV line to the greatest extent possible, however some new roads may be needed, and some old roads may not. The existing road system is shown in *Appendix W Map Atlas*. New road locations and detail on road improvement levels will be included in the Final POD. Table A-1 provides an example of this data for BLM roads. The Object ID# in the table corresponds to the label on the roads in the POD maps (*Appendix W*). Table A-2 lists Environmental Protection Measures (EPMs) that apply to road siting and construction.

#### *Road Improvement Levels*

Tri-State utilizes the following classifications for identifying new road improvements. Tri-State will incorporate and match their road design categories with those used on BLM and FS administered lands as part of the final POD atlas.

**Existing Roads:** The existing road category includes public and private paved, gravel-surfaced, well-defined two-track, or natural surface access roads that require no improvement (grading, widening, fill, drainage etc.) to facilitate construction of a transmission line and/or substation facilities. Post-construction, the only reclamation required is expected to be fixing any damage that might have occurred during construction.

**Improvement Level I (Overland Access):** Roads in this improvement category are overland access only or roads that require minor removal of tall woody vegetation. No soil disturbance or grading is permitted in this category. Vegetation must be removed by hand and cut at the ground level. Post construction or future maintenance activity, reclamation may require re-seeding and restoration of the access road right-of-way to natural pre-construction conditions. Re-vegetation will require the planting of low-growing plant species that would continue to facilitate vehicle access in the future.

**Improvement Level II (Minor Grading):** Level II includes new or existing access roads that require minor grading (one foot or less) and removal of tall woody vegetation with the use of hand tools and/or mechanical equipment. Post construction, reclamation will depend on whether the road will be a permanent or temporary access road. Re-vegetation will require the planting of low-growing plant species that would continue to facilitate vehicle access in the future.

**Improvement Level III (Moderate to Heavy Grading):** Level III includes new or existing access roads that require more substantial grading to accommodate construction vehicles. For construction contracting purposes this category has been broken into two sub-categories. Post construction, reclamation will depend on whether the road will be a permanent or temporary access road.

Level III (A): Existing or new access roads requiring 1-3 feet of grading

Level III (B): Existing or new access roads requiring greater than 3 feet of grading.

Tri-State would comply with all seasonal restrictions and environmental protection measures for threatened, endangered, special status species or wildlife described in permit conditions pertaining to routine construction and maintenance activities on the new 230-kV (See Chapter 5, Environmental Protection Measures and related *Appendices* to this POD).

**Stream crossings:** Within access roads, there could be a surface water crossing such as ephemeral, intermittent, or perennial drainage, arroyos, and wetlands. Those areas requiring improvement to facilitate construction such as a culvert, armored rock crossing, or pulled back banks would fall under this category and would be identified as such on the associated construction drawings.

Stream crossings requiring any fill, culverts or other alteration would be subject to Section 404 permits under the Clean Water Act. Permits are administered by the USACE lines have a special nationwide permit (NWP), NWP 12 and NWP 3 (access roads), which outlines conditions and criteria regarding what is allowable for activity in Waters of the United States. An individual permit may be required if impacts exceed the 0.5 acre threshold. Tri-State will begin identifying stream crossings and any improvements in 2015 and 2016 and work with the USACE on any permits (*see Appendix U, Permits and Authorizations*).

Tri-State's permit requirements for water crossings are detailed in *Appendix F, Water Resources Protection Plan*.

**Table A-1: Road Location and Improvement Levels on BLM Land**

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
76	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes		1	1922	0.36	0.00668240147	
84	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required		1	24229	4.59	0.07726249244	
85	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required		1	6724	1.27	0.02147314599	
299	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes		1	55	0.01	0.00015264965	
300	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes		1	173	0.03	0.00056267984	
303	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required		1	5289	1.00	0.01772205138	
306	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required		1	7425	1.41	0.02461230771	
307	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes		1	226	0.04	0.00071173921	
316	BLM	UFO	Nucla-Cahone	BLM Maintained	BLM Road	Mailbox Park Road	Yes	Yes		1	160	0.03	0.00055559279	
317	BLM	UFO	Nucla-Cahone	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required		1	645	0.12	0.00224137883	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
482	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes		1	1238	0.23	0.00430387291	
518	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes	5Montrose-Nucla6904 - No	1	236	0.04	0.00082178077	
564	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required	5Montrose-Nucla6484 - No	1	507	0.10	0.00171645101	
565	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	Yes	Yes	5Montrose-Nucla6484 - No	1	309	0.06	0.00103952394	
566	BLM	UFO	Montrose-Nucla	BLM Maintained*	BLM Road	Mailbox Park Road	No	No Survey Required	5Montrose-Nucla6484 - No	1	104	0.02	0.00031642114	
436	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		No	No		1	7705	1.46	0.02263730315	
449	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		No	No		1	990	0.19	0.00286252088	
450	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		No	Yes		1	29	0.01	0.00008259837	
451	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		No	Yes		1	28	0.01	0.00007994888	
452	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		Yes	Yes		1	163	0.03	0.00047141281	
603	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		Yes	Unknown		1	9526	1.80	0.02683035887	
606	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		Yes	Unknown		1	1690	0.32	0.00550698467	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
608	BLM	Tres Rios	Nucla-Cahone	Proposed Road-New Alignment	Tri-State Access		Yes	Unknown		1	2171	0.41	0.00707144772	
54	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		2	245	0.05	0.00079537856	Major rock removal - steep grade
55	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	491	0.09	0.00158429243	
56	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	1305	0.25	0.00394551770	
57	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	3260	0.62	0.01129633438	
58	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		1	3768	0.71	0.01079394510	
59	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	2022	0.38	0.00634605194	
60	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	713	0.14	0.00230720729	Rutted, rocky- needs slight grading
61	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	6978	1.32	0.02137204633	
62	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		1	1204	0.23	0.00342782539	
63	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		1	1590	0.30	0.00481694302	
64	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2603	0.49	0.00788507458	
65	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	3105	0.59	0.00944807358	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
66	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2277	0.43	0.00735075470	
67	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	3841	0.73	0.01207819920	
68	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	6304	1.19	0.01959932719	
69	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	715	0.14	0.00227507346	
70	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	1786	0.34	0.00513675593	
71	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	498	0.09	0.00144113427	
72	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	649	0.12	0.00210996868	
73	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	385	0.07	0.00133344481	
74	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	256	0.05	0.00088923010	
75	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	3492	0.66	0.01206906681	
77	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	3430	0.65	0.00955478818	
78	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1730	0.33	0.00601452738	
79	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	311	0.06	0.00099065268	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
80	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	818	0.15	0.00275778375	
81	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	2289	0.43	0.00662992021	
82	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		1	1853	0.35	0.00570089483	
83	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	421	0.08	0.00131571660	
110	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	1693	0.32	0.00465322275	Grading
112	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	2021	0.38	0.00644209375	
121	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2198	0.42	0.00653509440	
122	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	6204	1.17	0.01716281786	
123	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	231	0.04	0.00071527025	
124	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	865	0.16	0.00238797077	
125	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	910	0.17	0.00268761886	
129	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	661	0.13	0.00196556343	
130	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	359	0.07	0.00099633698	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
131	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1949	0.37	0.00603653810	
133	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		3a	927	0.18	0.00299516927	Rocky, steep grades
134	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1327	0.25	0.00370021417	
135	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1225	0.23	0.00390114469	
136	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	345	0.07	0.00100845168	
137	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	156	0.03	0.00043172914	
139	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	677	0.13	0.00214238003	
140	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	371	0.07	0.00122904730	
141	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1204	0.23	0.00358197512	
144	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	513	0.10	0.00146182016	
145	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1231	0.23	0.00394229864	
146	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	5954	1.13	0.01812470527	
147	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	455	0.09	0.00144373605	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
153	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	774	0.15	0.00257474629	
154	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	2153	0.41	0.00609724600	
155	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	32	0.01	0.00011058969	
156	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	No		1	868	0.16	0.00269950910	
157	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1016	0.19	0.00317827794	
158	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1880	0.36	0.00568433524	
160	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1914	0.36	0.00620064305	
162	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	61	0.01	0.00018978710	
163	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		3a	640	0.12	0.00201371622	Steep and rocky
164	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	2147	0.41	0.00694554276	
166	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	892	0.17	0.00289845284	
167	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	498	0.09	0.00166288211	
168	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	964	0.18	0.00313158876	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
170	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2826	0.54	0.00841071846	
171	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	610	0.12	0.00167579233	
180	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	224	0.04	0.00069292164	
181	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	549	0.10	0.00168050766	
182	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	681	0.13	0.00188488918	
184	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	638	0.12	0.00192845892	
204	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	No Survey Required		1	3124	0.59	0.00908100306	
210	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	No Survey Required		1	855	0.16	0.00265062392	
212	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	3269	0.62	0.01044280146	
213	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1593	0.30	0.00485575080	
214	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	644	0.12	0.00198850218	
215	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2447	0.46	0.00734987899	
216	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	4449	0.84	0.01323831037	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
223	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1159	0.22	0.00358830496	
224	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	183	0.03	0.00056049819	
225	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	2281	0.43	0.00751450383	
226	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	286	0.05	0.00089539694	
227	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	378	0.07	0.00107212324	
228	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	748	0.14	0.00235926470	
229	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	418	0.08	0.00132543526	
230	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		3a	333	0.06	0.00100449619	Slight grading to remove knob
231	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	920	0.17	0.00293416280	
232	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	430	0.08	0.00134223442	
236	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2381	0.45	0.00701875648	
237	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	2314	0.44	0.00699682692	
238	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	481	0.09	0.00137115194	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
239	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1362	0.26	0.003988806233	
243	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	926	0.18	0.00263300372	
244	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	2167	0.41	0.00600217247	
253	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1900	0.36	0.00561225443	
260	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	187	0.04	0.00055042404	
261	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	540	0.10	0.00185773405	
262	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	134	0.03	0.00037884886	
263	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	406	0.08	0.00140272474	
264	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	202	0.04	0.00059693385	
265	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	132	0.03	0.00036444846	
266	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	57	0.01	0.00015894473	
267	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	88	0.02	0.00024309491	
268	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	82	0.02	0.00024001963	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
269	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access	Rim Road	No	No		1	133	0.03	0.00042503002	
292	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	431	0.08	0.00148692824	
293	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1688	0.32	0.00577458860	
294	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1234	0.23	0.00423737966	
295	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	110	0.02	0.00033986668	
296	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	69	0.01	0.00023211260	
297	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	87	0.02	0.00027276671	
298	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	117	0.02	0.00032511707	
301	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1276	0.24	0.00439235117	
302	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	170	0.03	0.00055714766	
304	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	570	0.11	0.00195768836	
305	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	65	0.01	0.00018202707	
308	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	89	0.02	0.00024681312	

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309	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	209	0.04	0.00063850151	
310	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	542	0.10	0.00186396106	
318	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	73	0.01	0.00024852246	
327	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	106	0.02	0.00035015744	
328	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	96	0.02	0.00028551584	
334	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	87	0.02	0.00029564737	
338	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	257	0.05	0.00077245392	Drainages to grade in stretch
339	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	79	0.02	0.00022375801	
340	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	150	0.03	0.00048017778	
342	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	440	0.08	0.00145172735	
343	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	224	0.04	0.00064819793	
344	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	335	0.06	0.00105936163	
345	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	123	0.02	0.00037996657	

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346	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	221	0.04	0.00060988442	
347	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	133	0.03	0.00044463468	
351	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	319	0.06	0.00092163827	Move access to center of structure
352	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	492	0.09	0.00151857694	
355	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	72	0.01	0.00024494349	
356	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	100	0.02	0.00027792594	
359	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	306	0.06	0.00092404715	
360	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	129	0.02	0.00035596091	
361	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	85	0.02	0.00028586405	
362	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	1213	0.23	0.00356990884	
363	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	307	0.06	0.00091288091	
364	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	113	0.02	0.00038623323	
365	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	179	0.03	0.00049291324	

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374	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	335	0.06	0.00104437733	
375	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	69	0.01	0.00020674606	
376	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	218	0.04	0.00060342931	
384	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	48	0.01	0.00014963472	
385	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	188	0.04	0.00060298418	
386	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	50	0.01	0.00016759239	
393	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	606	0.11	0.00208710736	
398	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	115	0.02	0.00036993855	
412	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		3a	275	0.05	0.00087528468	Pull back banks
413	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	332	0.06	0.00102531255	
414	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1255	0.24	0.00403976783	
415	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	45	0.01	0.00012665197	
416	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	827	0.16	0.00272843905	Move north to avoid drainage

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417	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		2	296	0.06	0.00095160995	Move north of drainage
462	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	144	0.03	0.00041159992	
463	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	78	0.01	0.00026947754	
464	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	2610	0.49	0.00811707499	
465	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	882	0.17	0.00267529270	
466	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1690	0.32	0.00509784899	
467	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	4722	0.89	0.01433409546	
468	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2909	0.55	0.00892841815	
476	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	820	0.16	0.00280420713	
477	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	594	0.11	0.00188477970	
478	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	187	0.04	0.00058271710	Rutted, rocky- needs slight grading
479	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	5229	0.99	0.01697203705	
481	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	446	0.08	0.00153587146	

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483	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	385	0.07	0.00133373059	
484	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	77	0.01	0.00025863299	
485	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	630	0.12	0.00206378049	
488	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	870	0.16	0.00274030500	
489	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	263	0.05	0.00075342366	
490	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1079	0.20	0.00346295432	
491	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	468	0.09	0.00153072866	
495	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	No Survey Required		1	330	0.06	0.00107141456	
496	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	875	0.17	0.00283028961	
497	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	178	0.03	0.00054026116	
510	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6484 - No	1	331	0.06	0.00110596117	
511	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla5475 - Yes, tree trimming, slight sagebrush and oak removal.	1	239	0.05	0.00069175082	

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512	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6491, 5Montrose-Nucla229 - No, but road is "rutted, rocky, needs slight grading"	3a	907	0.17	0.00297063220	Rutted, rocky- needs slight grading
513	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6487, 5Montrose-Nucla6510 - Yes, minimal juniper tree trimming; 5Montrose-Nucla10335, 5Montrose-Nucla6489 - No	1	3135	0.59	0.01018013469	
514	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla3001 - Yes, juniper needs trimming along road coming in from north, possible brush removal along road within site; 5Montrose-Nucla3668, 5Montrose-Nucla6515 - Yes, sagebrush removal and pine tree trimming;	1	1989	0.38	0.00669515669	
515	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla2538 - No	1	821	0.16	0.00269011780	

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516	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla3001 - Yes, juniper needs trimming along road coming in from north, possible brush removal along road within site	1	352	0.07	0.00096625827	
517	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6484, 5Montrose-Nucla935 - No	1	748	0.14	0.00259969449	
524	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla8318 - No; 5Montrose-Nucla5262 - Yes, juniper tree trimming needed	1	1486	0.28	0.00476714755	
525	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	1043	0.20	0.00333495884	
527	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	313	0.06	0.00102293991	
528	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM4352 - Yes, oak removal, juniper trimming	1	785	0.15	0.00237742622	
529	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	76	0.01	0.00021812989	
531	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5SM7382 - No	1	293	0.06	0.00088887728	

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532	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	601	0.11	0.00188364928	
533	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	583	0.11	0.00192782524	
534	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	2478	0.47	0.00736300957	
535	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3484 - No	1	804	0.15	0.00257416308	
536	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM4348 - Yes - a few PJ need trimming	1	1785	0.34	0.00571878919	
537	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6480 - No	1	408	0.08	0.00116438510	
541	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla5262 - Yes, juniper tree trimming needed	1	570	0.11	0.00187465814	
542	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla8318, 5Montrose-Nucla6506 - No	1	372	0.07	0.00111900117	
543	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6506 - No	1	303	0.06	0.00088374619	
544	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	No Survey Required	5SM3459 - Yes, pine trimming, sage and oak removal	1	334	0.06	0.00095724550	

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546	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	No Survey Required	5SM3459 - Yes, pine trimming, sage and oak removal	1	417	0.08	0.00133986150	
547	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM4342 - No	1	1501	0.28	0.00446856085	
548	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5SM4348 - Yes - a few PJ need trimming	1	542	0.10	0.00160973952	
549	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM4348 - Yes - a few PJ need trimming	1	431	0.08	0.00136175599	
550	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	458	0.09	0.00146643681	
553	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3479 - No	1	1206	0.23	0.00378962617	
556	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla2538 - No	1	280	0.05	0.00096156898	
559	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla3001 - Yes, juniper needs trimming along road coming in from north, possible brush removal along road within site	1	83	0.02	0.00022846359	
560	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No	5Montrose-Nucla6515, 5Montrose-Nucla5254 - Yes, sagebrush removal and pine tree trimming;	1	402	0.08	0.00133094601	

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561	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla5254 - Yes, sagebrush removal and pine tree trimming;	1	273	0.05	0.00094252971	
562	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla5475 - Yes, tree trimming, slight sagebrush and oak removal.	1	58	0.01	0.00016148490	
563	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla6484 - No	1	161	0.03	0.00044119939	
569	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla5262 - Yes, juniper tree trimming needed	1	605	0.11	0.00182886505	
570	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla5261, 5Montrose-Nucla8318 - No; 5Montrose-Nucla5262 - Yes, juniper tree trimming needed	1	170	0.03	0.00051169344	
571	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla8318 - No	1	98	0.02	0.00028540605	
574	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	98	0.02	0.00030499677	
575	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	75	0.01	0.00023058208	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
579	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6509 - Yes, minimal juniper trimming	1	568	0.11	0.00197069649	
580	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla2538 - No	1	199	0.04	0.00056537581	
581	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access	Suckla Road	No	Yes	5SM4350 - No	1	542	0.10	0.00152729607	
582	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6629 - No	1	264	0.05	0.00083573113	
583	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6501 - No; 5Montrose-Nucla6502 - No	1	915	0.17	0.00277032930	
584	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6500 - No	1	566	0.11	0.00170567854	
585	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes	5Montrose-Nucla6604 - No	1	338	0.06	0.00104239254	
596	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	1381	0.26	0.00428248216	
597	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes	5Montrose-Nucla6513 - Yes, tree trimming and slight sage and oak brush removal	1	613	0.12	0.00177011236	
599	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	642	0.12	0.00194440169	
616	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		1	313	0.06	0.00105816770	

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617	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	No		1	138	0.03	0.00043616049	
618	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		1	753	0.14	0.00209114700	
619	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		No	Yes		3a	73	0.01	0.00020686241	Slight grading after recent rain
620	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		1	220	0.04	0.00073952095	
621	BLM	UFO	Montrose-Nucla	Tri-State Maintained	Tri-State Access		Yes	Yes		2	130	0.02	0.00045198281	Slight cleanup
622	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	259	0.05	0.00071161562	Widen to 50'
624	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2181	0.41	0.00637865130	
625	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	190	0.04	0.00060520542	Need to widen to maintain width
626	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	287	0.05	0.00089377626	
627	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	180	0.03	0.00059616099	Rock removal
628	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	847	0.16	0.00269333459	
629	BLM	UFO	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	139	0.03	0.00045079163	Grade ruts
630	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	872	0.17	0.00258616142	

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631	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	294	0.06	0.00087946573	Minor grading
632	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		2	188	0.04	0.00056084166	Uphill slope to dress up
633	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		2	326	0.06	0.00102360478	Fix water bar
634	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	192	0.04	0.00061764535	
635	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	286	0.05	0.00094033643	Regrade uphill side to recover width
636	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		2	500	0.09	0.00153104989	Minor grading
637	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		No	Yes		1	429	0.08	0.00132185423	
638	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	155	0.03	0.00048128965	Pull back banks
639	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3484 - No	1	349	0.07	0.00114317717	
640	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3484 - No	2	185	0.04	0.00060136796	Ditch needs filled
641	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	735	0.14	0.00237756917	
642	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	631	0.12	0.00202768714	Grade ditch and move north around structure
643	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	1349	0.26	0.00434533627	

ID	Agency	Office	Transmission	Maintained	Category	Name	In ROW?	Archaeological Survey	Brush Clearing	Improvement Level Needed**	Feet	Miles	Shape Length	Improvement Comments
644	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	239	0.05	0.00076665083	Pull back and dress
645	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	496	0.09	0.00159392010	
646	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	207	0.04	0.00067129397	Move north to avoid ditch
647	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	192	0.04	0.00061781095	
648	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	235	0.04	0.00075434450	Slight grading
649	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	585	0.11	0.00185913561	Grade access
650	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	3a	392	0.07	0.00125943169	Drainages need cleaned up
651	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes	5SM3459 - Yes, pine trimming, sage and oak removal	1	201	0.04	0.00064532637	
652	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	558	0.11	0.00181060002	
653	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	139	0.03	0.00044279077	Access to new pad
654	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	75	0.01	0.00025164759	Clean up drainage
655	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	371	0.07	0.00119588056	
656	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		2	356	0.07	0.00115184341	Drainages need cleaned

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657	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		1	2292	0.43	0.00638113461	
658	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	223	0.04	0.00061682547	Remove knob
659	BLM	Tres Rios	Nucla-Cahone	Tri-State Maintained	Tri-State Access		Yes	Yes		3a	324	0.06	0.00095699874	Grading needed

## Notes:

\*Tri-State will request BLM maintained roads be included in the ROW grant in the event Tri-State must maintain roads for operations and maintenance of the line in case BLM is unable to maintain the road. Currently Tri-State does not maintain Mail Box Park Road.

\*\*Tri-State is reviewing roads in 2015 and 2016, improvement levels may change based on current conditions. Changes in road improvement level or any new roads needed for construction of the 230kV line would be updated in this table, on maps (*Appendix W*) in the Final POD.

**Table A-2: Road Siting Environmental Protection Measures**

No.	Measure
AR-1	No construction activities will be performed during periods when the soil is too wet to adequately support equipment and vehicles. If equipment or vehicles create ruts in excess of 4 to 6 inches deep for a distance of 10 feet on native surface roads, the soil shall be deemed too wet to adequately support construction equipment. If equipment or vehicles create ruts in excess of 1 inch deep on graveled roads, the roads shall be deemed too wet to support construction equipment.
AR-2	Only the minimum amount of soils and vegetation necessary for the construction and maintenance of the access routes and the safe and reliable operation of transmission line will be disturbed. If excavation is necessary, topsoil (if present) will be conserved and reused as cover on disturbed areas to facilitate re-growth of vegetation. Vegetation will be cleared from those areas necessary to obtain adequate working width and turning radius space for maintenance equipment and allow for the safe operation of the transmission line.
AR-3	Tri-State's construction contractor and maintenance crews will be required to remain within authorized access ROWs. Access outside of permitted access ROWs will need to be approved by the affected land management agency/owner prior to use. Future maintenance work will also occur entirely within the transmission and access ROWs unless otherwise authorized by the affected agency/landowner.
AR-4	Tri-State and its contractor(s) will work with the BLM and FS regarding travel restrictions as well as the need, location and type of closure devices that will be utilized and installed to protect key areas along access roads and to clarify which roads are being used for administrative purposes only. Tri-State will provide funding for closure devices and informational signage. All rights-of-way will be maintained to allow BLM and Forest Service personnel access at any time, especially in the event of emergencies (e.g. fires).
AR-5	<p>Tri-State will design access roads to BLM/FS road standards and obtain prior approval on location and design from the relevant agency road engineer prior to construction.</p> <p>Tri-State will use the FS/USAID's (United States Agency for International Development) Low-Volume Road Engineering: Best Management Practices Field Guide to minimize soil losses, erosion creation and unstable slope conditions. These measures include: maintenance of soil erosion features such as dips and cross drains, repair of ditches, clearing of culverts and avoiding maintenance during wet periods.</p> <p>In areas where more than 3 feet of grading is required (Tri-State improvement Level IIIb). Tri-State will coordinate with the BLM and Forest Service engineers prior to the initial work on the ground to strategize on how the work can be accomplished with the minimum amount of surface disturbance.</p>
AR-6	Tri-State will work with the FS to maintain locked gates to restrict access south of the Big Water Springs Road and on both sides of Forest Road 509 in the San Juan National Forest (east of Dolores Canyon).

No.	Measure
AR-7	<p>Emergency Maintenance Access:</p> <ul style="list-style-type: none"> <li>a.) Emergency access will be allowed during any time of the year. In the event of an emergency, Tri-State and its contractor(s) will notify the BLM and/or FS/landowner as soon as possible. Tri-State will meet with BLM and/or FS/landowner onsite after an emergency to determine the required rehabilitation work and to establish a rehabilitation schedule.</li> <li>b.) If emergency access to the transmission line is required during wet weather, or if other maintenance activities result in the removal of vegetation, or substantial vehicle impacts to existing native vegetation, revegetation of disturbed areas will be completed as directed by the BLM/FS or affected landowner. Reclamation and revegetation will be implemented, as required, as soon as practical after any emergency road access or maintenance work needed to repair the transmission line.</li> <li>c.) If emergency line maintenance is required during the winter or spring months, care will be taken to minimize erosion and sedimentation. This may involve the temporary installation of culverts or bundled PVC pipes, and the use of flow diversion structures and sediment traps (straw bale dikes, sediment filter fabric, etc.) below maintenance areas to trap sediment.</li> </ul>

### ***References***

Keller, G., & Sherar, J. (2003). *Low-Volume Roads Engineering, Best Management Practices Field Guide*. USDA, Forest Service; U.S. Agency for International Development (USAID).