



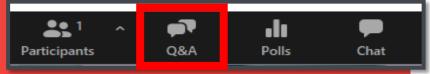
Virtual
Public Information
Meeting

NM 31-128
Alignment Study and Design-Build Project CN 2104330
May 3, 2022

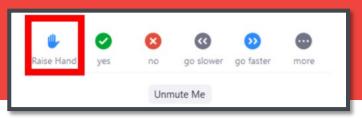
Meeting Platform: Zoom



- ✓ Zoom Webinar only presenters will be on video
- This meeting is being recorded
- Questions & Answers Please add project-related questions in the Q&A dialogue box



During Q&A, if you would like to speak, raise your hand (*9 if you have dialed-in)









Presenters

- ✓ New Mexico Department of Transportation (NMDOT) Team Presenters:
 - Francisco Sanchez, NMDOT District 2
 District Engineer
 - Michael Smelker, NMDOT District 2
 Assistant District Engineer
 - Terry Ward, WSP Project Manager
 - Jennifer Hyre, WSP Environmental Planner









Agenda



∠ Presentation Topics:

- 1. Brief Background
- 2. NMDOT Project Development Process Where we are at
- 3. Previous Project Public Meetings and Stakeholder Outreach Recap
- 4. Preliminary Recommendations
- 5. Detailed Analysis
- 6. Environmental, Right-of-Way and Cost
- 7. Design-Build Procurement Phase I and Project Phasing
- 8. Schedule and Next Steps

Questions















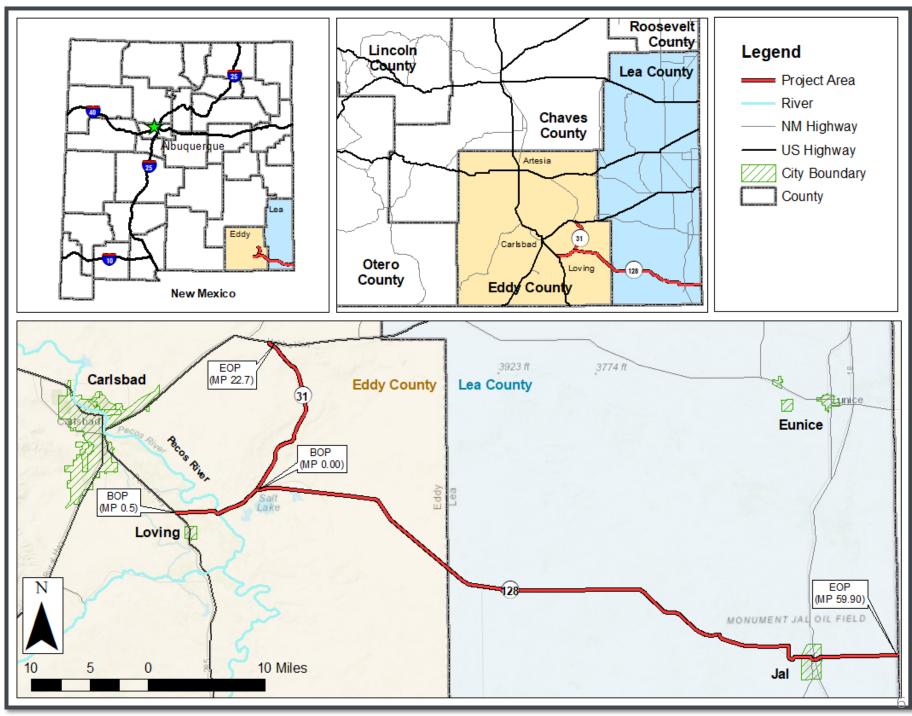


Brief Background

Location Map

NM 31 - 22.2 miles NM 128 - 59.9 miles





Project Website



- ▲ Project Information: https://nm31-128project.nmdotprojects.org
 - This presentation and recording of tonight's public event will be posted here, as well as previous public meetings and project documents













NMDOT
Project Development Process
Where we are at

Project Development Process

Phase IA/B: Alignment Study

- » Establish Why Improvements are Needed and Preliminary Alternatives
- » Evaluate Alternatives and Identify Preliminary Recommendations

- Phase I
 - » Currently close to the end of Phase IA/B Study
- » Phase II
 - » Final Design
- » Phase III
 - » Construction

Phase IC: Environmental Processing

- » Environmental Investigations
- » Obtain Authorization to Construct Improvements

Phase ID: Preliminary Design

- » Preliminary Engineering
- » Define Right-of-Way Needs
- » Prepare Engineering Cost Estimate

Stakeholder and Public Involvement

- Ongoing throughout Phase I

















Previous Project Public Meetings and Stakeholder Outreach Recap

Overall Project

August 31, 2021

Existing Conditions

Challenges

Alternative Identification

Screening

Preliminary Alternatives

Public Meeting #1





City of Jal

September 14, 2021

Existing Conditions

Challenges

Alternative Identification

Screening

Preliminary Alternatives

Public Meeting #2





Stakeholders

We've spoken with all of them





- ▲ Eddy and Lea County
- City of Jal
- City of Carlsbad
- Bureau of Land Management (BLM)
- ▲ State Land Office (SLO)
- ✓ Oil & Gas Industry
- ▲ Waste Isolation Pilot Plant (WIPP)
- Mosaic and Intrepid Potash
- United Salt Corporation
- Burlington Northern RR
- ▲ Texas New Mexico RR
- TxDOT
- ▲ FHWA















































Preliminary Recommendations

Project Purpose

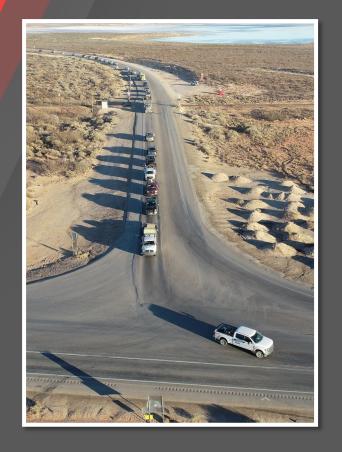


✓ The project's purpose is to improve NM 31 and NM 128 to mitigate problems with highway safety, traffic capacity and congestion, and condition of the roadway and related infrastructure.





Project Need





- ▲ Traffic Safety
 - » 722 crashes occurred on NM 31 and NM 128 for the six-year period between 2014 and 2019
 - —28% of all crashes resulted in fatalities and injuries
 - -27 fatal crashes occurred
 - Primary crash types include rear-end, head-on, over-turn, and right-angle crashes
 - » Crash types are indicative of inadequate safe passing areas, conflicts at intersections, lack of turn lanes, and narrow shoulders





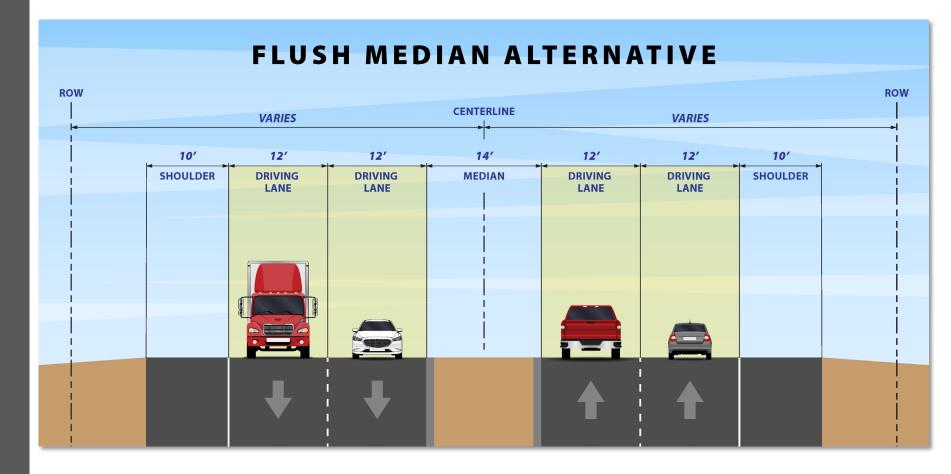






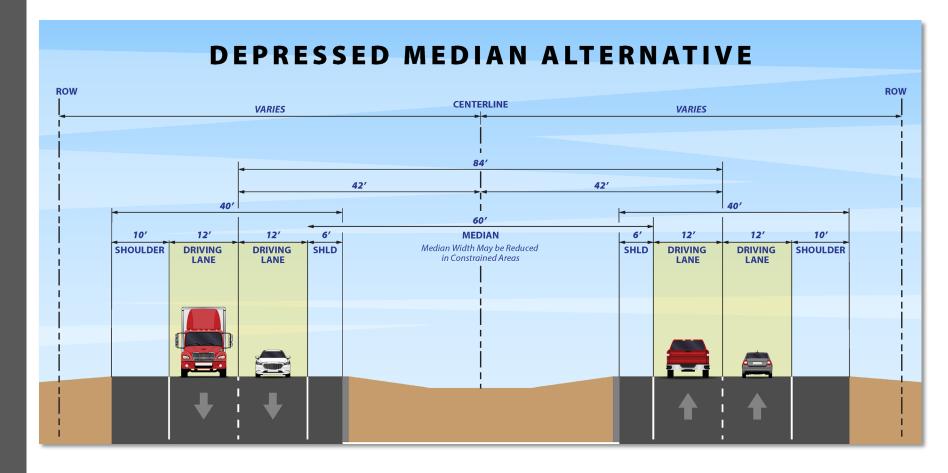
Preliminary
Recommendations
Mainline Alternatives

4-Lane Flush Median Alternative



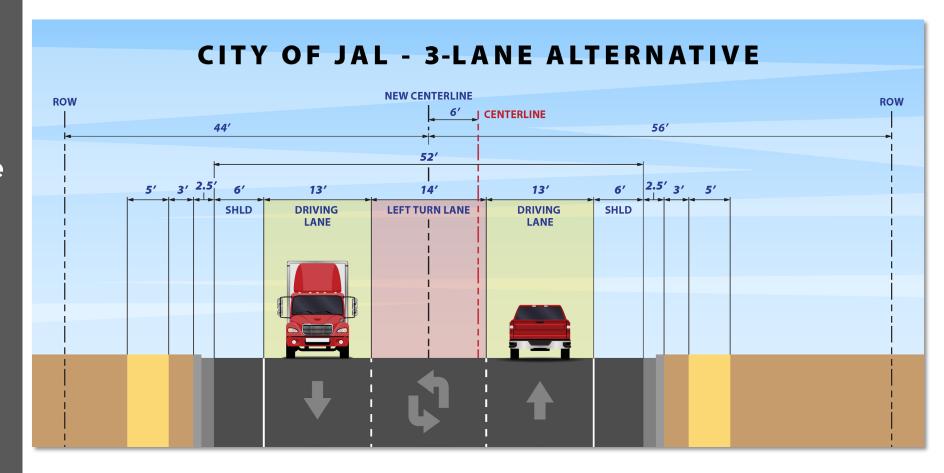


4-Lane
Depressed Median
Alternative





JAL 3-Lane
Two-Way Left Turn Lane
Alternative

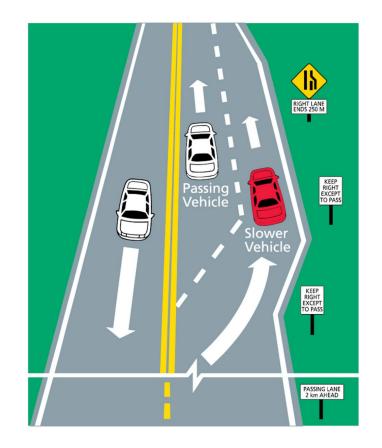




Enhanced 2-Lane Alternative



An Enhanced 2-Lane alternative consists of periodic passing lanes.

















Preliminary
Recommendations
Intersections

Restricted Crossing U-Turn (RCUT)

None Proposed

Oil & Gas Feedback

There would be median U-turns on NM 128 for the 4-lane Divided roadway segment from NM 31 to Jal

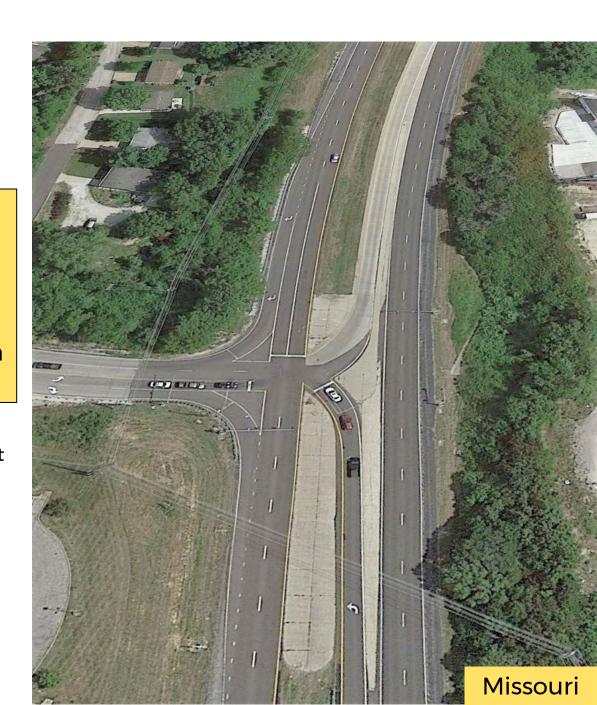


High-T

Intersections

- NM 31 / US 62
- NM 128 / WIPP
- NM 128 Orla
- NM 128 / Buck Jackson

WIPP - Waste Isolation Pilot Plant



Roundabout





- NM 31 Refinery Road
- NM 31-128



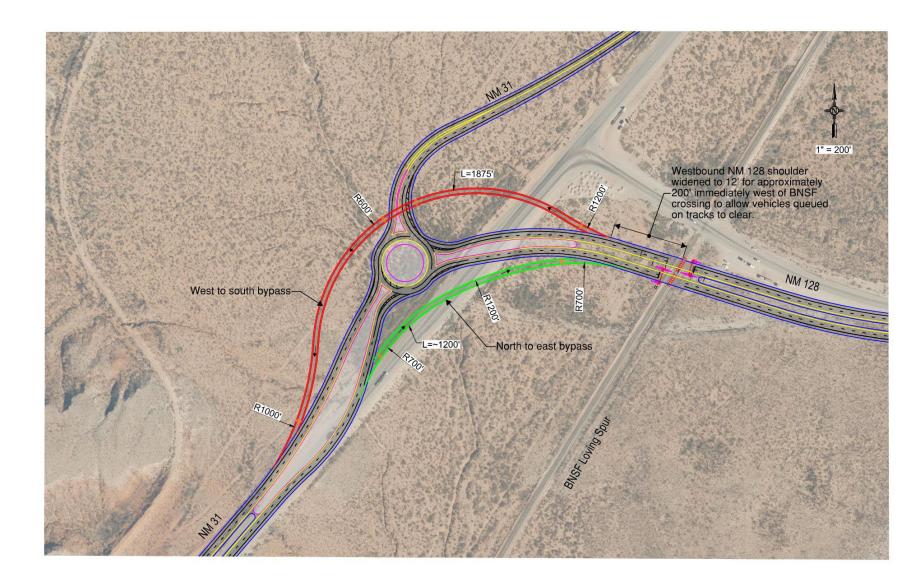
NM 31-Refinery Road Roundabout





NM 31-128 Roundabout

A grade separated crossing of the BNSF railroad is also under consideration





Roundabout



Each Roundabout adds between 15-20 seconds of delay for the mainline approaches as compared to free flow movements.

Consider corridor improvements in the overall assessment and that the delay at the NM 31-Refinery and NM 31-128 intersections will be vastly reduced.



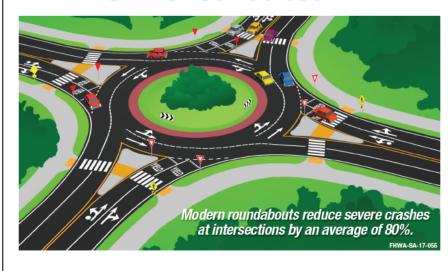


Roundabout

Educational Materials

FHWA
Washington DOT
Wisconsin DOT
Ohio DOT

Do you know the rules of the roundabout?



- **1** Slow Down.
- **2** Look Around.
- 3 Be Ready to Yield.

A roundabout is a circular intersection design where traffic travels at low speed around a central island and entering traffic must yield to circulating traffic. Roundabouts are safer and more efficient than traditional intersections.

The geometry of a roundabout is key to controlling the speed at which traffic enters and maneuvers through the intersection, providing the following benefits:

- Lower severity of collisions that may occur, resulting in significantly fewer severe injuries.
- Increased likelihood of drivers yielding to pedestrians at crosswalks.
- Time for drivers to judge and enter a comfortable gap in circulating traffic.



Modern Roundabouts... as easy as 1, 2, 3.



- Going slower provides more time to make decisions and be better prepared to yield to other road users.
- By entering the roundabout at a slower speed, crashes that do happen are much less severe.
- Slowing down helps drivers do a better job seeing pedestrians and bicycles and sharing the road with them.



- Drivers should choose the lane for where they want to go after the roundabout. Signs and markings help them select a lane.
- Like most other intersections, drivers use the left lane to go left, the right lane to go right, and either lane to go straight through, unless otherwise indicated.
- Drivers should keep looking around and check the crosswalks to see if anyone is waiting to cross or is already crossing.
 Drivers should be ready to stop and let them safely finish.



- Drivers must yield to traffic in all lanes of the roundabout, not just in the lane closest to them.
- If large vehicles like trucks or buses are in the roundabout, drivers should give them space and avoid driving next to them inside the roundabout.
- Drivers should follow the pavement markings to stay in the correct lane as they leave the roundabout. They should look around one more time for anyone in the crosswalk and be ready to vield as the drivers exit.

For more information contact

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Two-way stop-sign control (TWSC) is the base intersection except as noted:

- High T NM 31/US 62, WIPP, Orla, Buck Jackson
- Roundabout Refinery Road, NM 31-128
- Traffic Signals NM 18 and 3rd St in Jal

WIPP - Waste Isolation Pilot Plant















Preliminary
Recommendations
Overview











Detailed Analysis

Preliminary Recommendations

Detailed Analysis

- ▲ Design Year 2041
- ▲ Focused on Traffic Operations and Traffic Safety from Purpose and Need as the predominate analysis criteria





Preliminary Recommendations

Detailed Analysis

- ▲ Traffic Operations Level of Service (LOS)
 - » From the NMDOT State Access Management Manual

Roadway Characteristics	SAMM LOS Criteria
Rural, Two-Lane Highways	LOS B or Better
Rural, Multi-Lane Highways	LOS B or Better
Rural, Unsignalized Intersections	LOS C or Better for all Approaches and Movements

The LOS criteria for two-lane highways are based on the average travel speed (ATS) and the percent time spent following (PTSF). The PTSF indicates the inability to pass which can be due to congestion and lack of passing zones or passing lanes

The LOS criteria for multi-lane highways are based on density which is defined in passenger cars per mile per lane (pc/mi/ln).













Detailed Analysis NM 31 Mainline





Two-Lane Highway Traffic Operations Summary – 2041 Existing Conditions

	Level of Service (LOS)					
Minor Rd. to Minor Rd.	Eastbound	Westbound	Eastbound	Westbound		
	AM	PEAK	PM I	PEAK		
Kelly to Carter	С	Α	В	С		
Carter to Nymeyer	С	В	С	D		
Nymeyer to Donaldson	С	В	С	С		
Donaldson to Fishermans	D	С	С	С		
Fishermans to Refinery	D (E)	С	C (D)	С		
Refinery to NM 128	E	С	C (D)	D (E)		
NM 128 to US 62	Α	В	В	А		

Note: The critical LOS is reported for each segment. When LOS D (E) is shown, the LOS D is for the passing zone and LOS E is for the passing constrained segment. Shaded values do not meet SAMM LOS criteria.







Multi-Lane Highway Traffic Operations Summary – 2041 Build Recommendations

	Level of Service (LOS)						
Minor Rd. to Minor Rd.	Eastbound	Westbound	Eastbound	Westbound			
	AM I	PEAK	PM PEAK				
Kelly to Carter	А	А	А	А			
Carter to Nymeyer	А	А	А	А			
Nymeyer to Donaldson	А	А	А	А			
Donaldson to Fisherman	А	А	А	В			
Fisherman to Refinery	А	А	А	А			
Refinery to NM 128	В	А	А	В			













Detailed Analysis
NM 31 Rural Intersections





Two-Way Stop Control Traffic Performance – 2041 Existing Conditions

Intersection Along NM 31		Two-L	ane Highway – Level of Serv	⁄ice	
Two-Way Stop Control	Peak Period	Eastbound NM 31	Westbound NM 31	Northbound	Southbound
Kally Dand	AM	А	-	-	С
Kelly Road	PM	А	-	-	D
Canton Dood	AM	-	А	С	-
Carter Road	PM	-	А	С	-
Numayar Dand	AM	-	А	В	-
Nymeyer Road	PM	-	A	С	-
Donaldson Farm Road	AM	А	В	D	D
Donaidson Farm Road	PM	А	А	D	E
Fish sums and Laws	AM	-	А	С	-
Fishermans Lane	PM	-	А	D	-
Definer. Deed	AM	А	Α	F	F
Refinery Road	PM	В	Α	F	F
Two-Way	Peak	Facility and	Marakhad	Northbound	Southbound
Stop Control	Period	Eastbound	Westbound	NM 31	NM 31
NIN 4 4 2 0	AM	-	С	-	В
NM 128	PM	-	F	-	А
LISC/Massis Site	AM	-	В	-	А
USC/Mosaic Site	PM	-	В	-	A
116.63	AM	-	В	C (D)*	-
US 62	PM	-	В	D (E)*	-

Note: LOS C(D) = LOS C for the approach; LOS D for the critical movement on the approach. Shaded values do not meet SAMM LOS criteria.

The LOS criteria for unsignalized intersections are based on control delay which is defined in seconds per vehicle (s/veh).







Two-Way Stop Control Traffic Performance – 2041 Build Recommendations using TWSC

			Level of Service					
NM 31 Intersection	Peak Period	Configuration	Eastbound NM 31	Westbound NM 31	Northbound	Southbound		
Kally Dagd	AM	4-Lane	Α	-	-	В		
Kelly Road	PM	TWSC	Α	-	-	С		
Cartor Dood	AM	4-Lane	-	Α	В	-		
Carter Road	PM	TWSC	-	А	В	ı		
Numayor Daad	AM	4-Lane	-	Α	В	-		
Nymeyer Road	PM	TWSC	-	А	В	ı		
Donaldson Farm	AM	4-Lane	Α	В	С	В		
Road	PM	TWSC	Α	А	В	С		
Fishermans Lane	AM	4-Lane	-	А	С	-		
rishermans Lane	PM	TWSC	-	А	В	ı		
Dofinory Dood	AM	4-Lane	Α	В	D	F		
Refinery Road	PM	TWSC	В	А	D	E (F)*		
NM 31 Intersection	Peak Period	Build Scenario	Eastbound	Westbound	Northbound NM 31	Southbound NM 31		
NM 128	AM	4-Lane	-	В	ı	В		
INIVI 120	PM	TWSC	-	F	-	Α		
LISC/Mossis Site	AM	2-Lane	-	В	-	Α		
USC/Mosaic Site	PM	TWSC	-	В	1	Α		
115.63	AM	4-Lane	-	В	C (D)*	Α		
US 62	PM	TWSC	-	В	D (E)*	Α		

Note: *LOS C(D) = LOS C for the approach; LOS D for the critical movement on the approach. Shaded values do not meet SAMM LOS criteria.





Alternative Intersection Configurations Traffic Performance – 2041 Build Recommendations

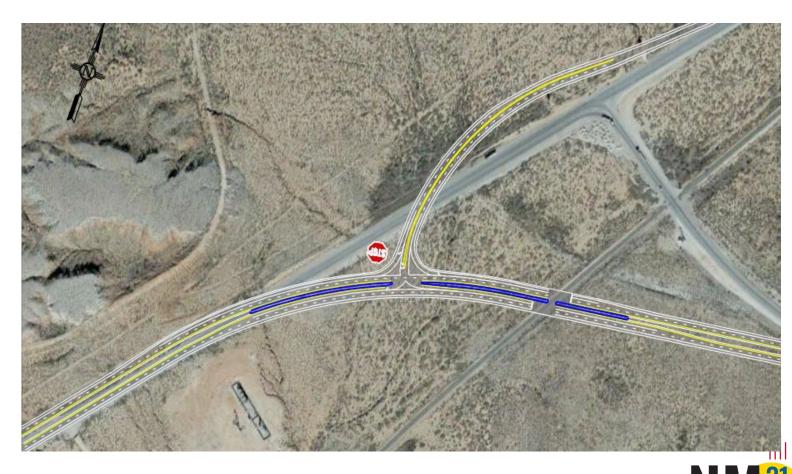
Intersection	Peak Period	Configuration	Eastbound NM 31	Westbound NM 31	Northbound	Southbound
	AM	Roundabout	В	Α	С	В
NM 31 @	PM	Roundabout	Α	Α	В	В
Refinery Road	AM	DCLIT	Α	В	D	D
ľ	PM	RCUT	А	А	С	C (D)*
Intersection	Peak Period	Configuration	Eastbound	Westbound	Northbound NM 31	Southbound NM 31
	AM	DCUT	-	Α	C (D)*	-
US 62 @ NM	PM	RCUT	-	В	C (D)*	-
31	AM	III-la T	-	В	С	-
ĺ	PM	High-T	-	В	С	-
	AM	Davis dalaasik	-	Α	Α	Α
NM 31 / NM	PM	Roundabout	-	Α	Α	Α
· ·	AM	DCUT	-	C (D)*	-	В
128 Existing	PM	RCUT	-	F	-	В
Configuration	AM	High T	-	В	-	В
	PM	High-T	-	F	-	Α
	Peak Period	Configuration	Eastbound NM 31	Westbound NM 128	Northbound	Southbound NM 31
	AM	TWCC	А	-	-	В
NM 31 / NM	PM	TWSC	В	-	-	C (D)*
l	AM	High T	А	-	-	В
128 Realigned	PM	High-T	В	-	-	В
Configuration	AM	Roundabout	А	Α	-	Α
	PM	Roundabout	Α	Α	-	В

Note: $*LOS\ C(D) = LOS\ C$ for the approach; LOS\ D for the critical movement on the approach. Pink shaded values do not meet SAMM LOS\ criteria.

The Realigned High-T introduces BNRF RR crossing skew angle challenges.

Alternative Intersection Configurations Traffic Performance – 2041 Build Recommendations

NM 31-128 Intersection - High-T











▲ Traffic Safety

Based on a crash history review, improvements are needed to address safety concerns along NM 31 from Kelly Road to NM 128. Crash occurrence north of the NM 128 intersection does not indicate specific safety concerns.

The types of improvements may include:

- The addition of left-turn and right-turn speed change lanes at the major cross-roads to NM 31 with proper deceleration and storage lengths.
- Providing a median to provide positive separation of the opposing travel directions.
- Providing additional traffic capacity at intersections and along highway segments.
- Adding rumble strips along the outside edges of the travel lanes and along the centerline where applicable.













Detailed Analysis NM 128 Mainline





Two-Lane Highway Traffic Operations Summary – 2041 Existing Conditions

		Level	of Service	
Minor Rd. to Minor Rd.	Eastbound	Westbound	Eastbound	Westbound
	AM	PEAK	PM I	PEAK
NM 31 to MP 0.85	D	В	В	D
MP 0.85 to WIPP Road	С	В	В	С
WIPP Road to Red Road	С	Α	Α	D
Red Road to Buck Jackson Road	С	В	Α	D
Buck Jackson Road to Orla Road	С	С	В	С
Orla Road to Delaware Basin Road	В	С	С	В
Delaware Basin Road to Battle Axe Road	А	С	В	В
Battle Axe Road to MP 48.0	Α	D	С	В
MP 48.0 to Wyoming Road	В	D	D	В
Wyoming Road to MP 54.4		N/A ir	City of Jal	
MP 54.4 to Willis Road	А	В	В	В
Willis Road to Texas Border	А	В	В	Α

Note: Shaded values do not meet SAMM LOS criteria.







Multi-Lane Highway Traffic Operations Summary – 2041 Build Recommendations

	Level of Service (LOS)						
Minor Rd. to Minor Rd.	Eastbound	Westbound	Eastbound	Westbound			
	AM	PEAK	PM I	PEAK			
NM 31 to MP 0.85	А	А	А	А			
MP 0.85 to WIPP Road	А	А	А	А			
WIPP Road to Red Road	А	Α	Α	А			
Red Road to Buck Jackson Road	А	А	А	А			
Buck Jackson Road to Orla Road	А	А	А	А			
Orla Road to Delaware Basin Road	А	Α	Α	А			
Delaware Basin Road to Battle Axe Road	А	Α	Α	А			
Battle Axe Road to MP 48.0	А	Α	Α	А			
MP 48.0 to Wyoming Road	А	А	А	А			













Detailed Analysis NM 128 Rural Intersections



Two-Way Stop Control and All-Way Stop Control Traffic Performance – 2041 Existing Conditions

Intersection along NM 128	2	2041 No Build Unsignalized Intersection Level of Service					
Two-Way Stop Control	Peak Period	Eastbound NM 128	Westbound NM 128	Northbound	Southbound		
WIPP Rd	AM	Α	1	-	F		
WIFF Ku	PM	В	ı	-	С		
Red Road	AM	Α	ı	-	С		
Red Rodu	PM	В	1	-	D		
Buck Jackson Road	AM	-	В	С	-		
Buck Jackson Road	PM	-	Α	F	-		
Orla Band	AM	-	Α	С	-		
Orla Road	PM	-	Α	F	-		
Dalamana Basin Basad	AM	Α	-	-	D		
Delaware Basin Road	PM	Α	-	-	С		
B 4 B	AM	-	Α	С	-		
Battle Axe Road	PM	-	Α	D	-		
All 144 Ct		Eastbound NM	Westbound				
All-Way Stop Control	Peak Period	128	NM 128	Northbound	Southbound		
2nd Charact	AM	F	В	F	D		
3rd Street	PM	F	В	F	D		
NIM 10	AM	E (F)*	Е	D	D		
NM 18	PM	E (F)*	E	Е	D		
Two-Way Stop Control	Peak Period	Eastbound NM 128	Westbound NM 128	Northbound	Southbound		
CalaaalaaaBaaad	AM	Α	Α	В	В		
Schooley Road	PM	Α	Α	С	С		
Millia Dand	AM	Α	Α	С	С		
Willis Road	PM	Α	Α	С	С		

The LOS criteria for unsignalized intersections are based on control delay which is defined in seconds per vehicle (s/veh).







Two-Way Stop Control Traffic Performance – 2041 Build Recommendations using TWSC

Unsignalized Intersection along NM 128	Peak Period	Configuration	Eastbound NM 128	Westbound NM 128	Northbound	Southbound
WIPP Road	AM	4-Lane	Α	-	-	C (D)*
WIPP ROAU	PM	TWSC	В	-	-	В
Dod Dood / Twin Wolls Dood	AM	4-Lane	Α	Α	С	С
Red Road / Twin Wells Road	PM	TWSC	В	Α	В	С
Duels le alsee a Dee d	AM	4-Lane	-	В	В	-
Buck Jackson Road	PM	TWSC	-	А	C (D)*	-
Onla Dand	AM	4-Lane	-	Α	В	-
Orla Road	PM	TWSC	-	Α	C (D)*	-
Dalawara Basin Baad	AM	4-Lane	А	-	-	С
Delaware Basin Road	PM	TWSC	А	-	-	С
Dottle Ave Dood	AM	4-Lane	-	Α	В	-
Battle Axe Road	PM	TWSC	-	Α	В	-
Cabaalan Daad	AM	2-Lane TWSC	А	Α	В	В
Schooley Road	PM	with Turn Lanes	Α	Α	С	В
Millio Dood	AM	2-Lane TWSC	А	Α	В	В
Willis Road	PM	with Turn Lanes	Α	Α	В	С

Note: *LOS C(D) = LOS C for the approach; LOS D for the critical movement on the approach. Shaded values do not meet SAMM LOS criteria.







Alternative Intersection Configurations Traffic Performance – 2041 Build Recommendations

Unsignalized Intersection along NM 128	Peak Period	Configuration	Eastbound NM 128	Westbound NM 128	Northbound	Southbound
	AM	Roundabout	Α	Α	-	А
WIPP Road	AM	RCUT	Α	-	-	D (E)*
	AM	High-T	Α	-	-	В
	PM	Roundabout	Α	Α	В	-
Buck Jackson Road	PM	RCUT	-	Α	D (E)*	-
	PM	High-T	-	Α	В	-
	PM	Roundabout	Α	Α	С	-
Orla Road	PM	RCUT	-	Α	D (E)*	-
	PM	High-T	-	А	С	-

Note: *LOS C(D) = LOS C for the approach; LOS D for the critical movement on the approach. Pink shaded values do not meet SAMM LOS criteria.







▲ Traffic Safety

Based on the crash history review, improvements are needed to address safety concerns along NM 128.

The types of improvements may include:

- The addition of left-turn and right-turn speed change lanes at the major cross-roads to NM 128 with proper deceleration and storage lengths.
- Providing a median to provide positive separation of the opposing travel directions.
- Providing additional traffic capacity at intersections and along highway segments.
- Adding rumble strips along the outside edges of the travel lanes and along the centerline, where applicable.













Environmental, Right-of-Way and Cost

Environmental Resources







Communities and Land Use

- » No residential or business relocations are expected
- » Overall land use would not be impacted
- » Additional analysis will be part of the environmental documentation phase

Natural Resources

- » The Pecos River is the only perennial waterway in the study area and has wetlands
 - Proposed new bridge offset south to avoid impacts to the wetlands
- » NM 128 corridor is situated in the Nash Draw watershed
 - Closed water basin with no connection to the Pecos River watershed
- » No critical habitat for threatened and endangered species within the study area

Environmental Resources







▲ Cultural Resources

- » Build Alternative would impact at least nine archaeological sites with the roundabout option at the NM 31-128 intersection.
- » A data recovery plan will be developed and implemented, in consultation with the SHPO, the State Land Office, and BLM in order to mitigate the impacts to these resources.
- » The NM 31 project will cross or intersect with nine historic properties eligible for listing on the National Register of Historic Places (NRHP).
- » NM 128 also has sensitive archaeological sites with few eligible for listing on the NRHP.

Environmental







▲ Geologic Hazards

- » Caves, karst topography, and other subsurface geologic voids are common in SE New Mexico.
- » Portions of the study area are composed of a gypsum-based geology where fissures, tubes, and caves are common.
 - -These features are often over 1,000 feet long and over 250 feet deep.
 - -Cave and karst field investigations are ongoing.



Right-of-Way





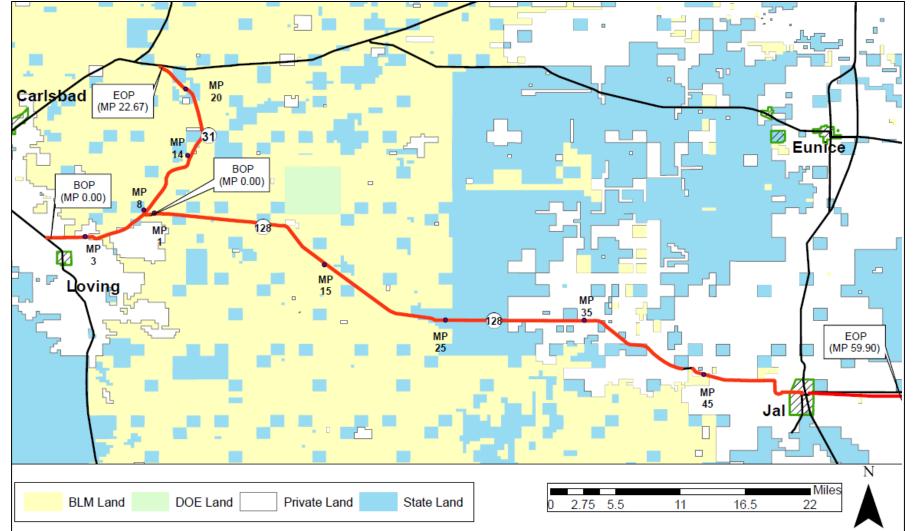
- Property surrounding project corridors is a combination of:
 - » Bureau of Land Management (BLM)
 - » State Land Office (SLO)
 - » Private
- ▲ An Enhanced Conceptual Engineering Design (30%) level) has been developed
 - » Depicts anticipated construction limits and ROW
- ROW Acquisition (and Environmental Permitting) will be based on the Enhanced Conceptual **Engineering Design**



Right-of-Way







- ▲ NM 31 additional Right-of-Way needs approx. 95 acres
- ▲ NM 128 additional Right-of-Way needs approx. 195 acres



Estimated Cost





Estimated Construction Costs for NM 31

Description	Segment 1: MP 0.5 to MP 8.0	Segment 2: MP 8.0 to EOP at US 62
Roadway Elements (includes lighting and RR Crossings)	\$ 51,691,000	\$ 52,438,500
Drainage	\$ 3,773,600	\$ 6,869,400
Bridges	\$ 9,434,000	-
Major Item Subtotal	\$ 64,898,600	\$ 59,307,900
Contingency and Cost escalation (6%)	\$ 3,893,916	\$ 3,558,474
Construction Subtotal	\$ 69,792,516	\$ 62,866,374
Engineering (8% of construction subtotal)	\$ 5,503,401	\$ 5,029,310
Construction Management (10%)	\$ 6,879,252	\$ 6,286,637
Construction Total	\$ 81,175,169	\$ 74,182,321
NMGRT	\$ 4,836,660	\$ 4,420,005
Project Total	\$ 86,011,829	\$ 78,602,327

Overall NM 31 Total: \$165 million



Estimated Cost





Estimated Construction Costs for NM 128

Description	Segment 1:	Segment 2:	Segment 3:	Segment 4:	Segment 5:	Segment 6:
Description	MP 0.5 to 11.8	MP 11.8 to 28.8	MP 28.8 to 38.8	MP 38.8 to 50.7	MP 50.7 to 53.9	MP 53.9 to 59.9
Roadway Elements	\$51,451,589	\$60,669,027	\$44,887,723	\$51,452,483	\$18,684,076	\$15,214,937
(includes lighting and RR Crossings)	Ψ31, 131,303	ψοσ,σσσ,σ <i>Σ</i> ,				
Drainage	\$3,969,013	\$3,476,339	\$1,613,415	\$4,563,476	\$4,761,510	\$569,415
Bridges	0	0	- 0	- 0	- 0	- 0
Major Items Subtotal	\$55,420,601	\$64,145,366	\$46,501,138	\$56,015,959	\$23,445,586	\$15,784,352
Contingency and Cost Escalation (6%)	\$3,325,236	\$3,848,722	\$2,790,068	\$3,360,958	\$1,406,735	\$947,061
Construction Subtotal	\$58,745,837	\$67,994,088	\$49,291,207	\$59,376,917	\$24,852,321	\$16,731,413
Engineering (8% of construction subtotal)	\$4,699,667	\$5,439,527	\$3,943,297	\$4,750,153	\$1,988,186	\$1,338,513
Construction Management (10%)	\$5,874,584	\$6,799,409	\$4,929,121	\$5,937,692	\$2,485,232	\$1,673,141
Construction Total	\$69,320,088	\$80,233,024	\$58,163,624	\$70,064,762	\$29,325,738	\$19,743,068
NMGRT	\$4,086,600	\$4,530,850	\$3,161,946	\$3,811,351	\$1,886,646	\$1,069,985
Project Totals	\$73,406,688	\$84,793,874	\$61,325,570	\$73,876,113	\$31,212,384	\$20,813,052

Overall NM 128 Total: \$325 million













Project Delivery Method:

Design-Build Procurement
Phase I
and
Project Phasing

Design-Build



The Design-Build phase (Phase I) will be federally funded and consist of the following base elements:

- ▲ Improvements to NM 31 from 0.5 miles east of U.S. 285 through the NM 128 intersection
- ▲ The NM 31-128 intersection
 - » Estimated Construction Cost: \$70-\$80 million



Design-Build



The Design-Build Phase (1st) will consist of the following add alternative elements:

- City of Jal Improvements
 - » Estimated Construction Cost: \$23-\$26 million
- ▲ NM 128 from NM 31 to the WIPP Road
 - » Estimated Construction Cost: \$50-\$55 million
- ▲ NM 31 and NM 128 Site Safety Improvements
 - » Estimated Construction Cost: \$2-\$20 million
- ▲ Added into Design-Build Contract or as Deferred Work to the Design Build Agreement, if funding is secured.



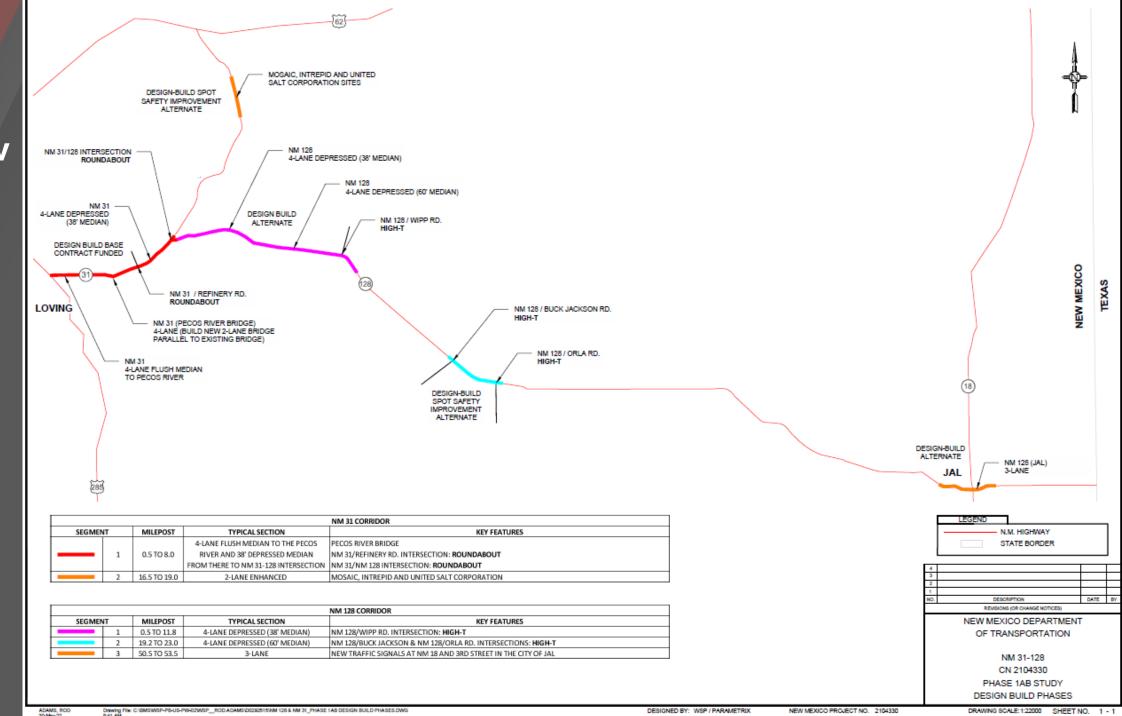
Design-Build

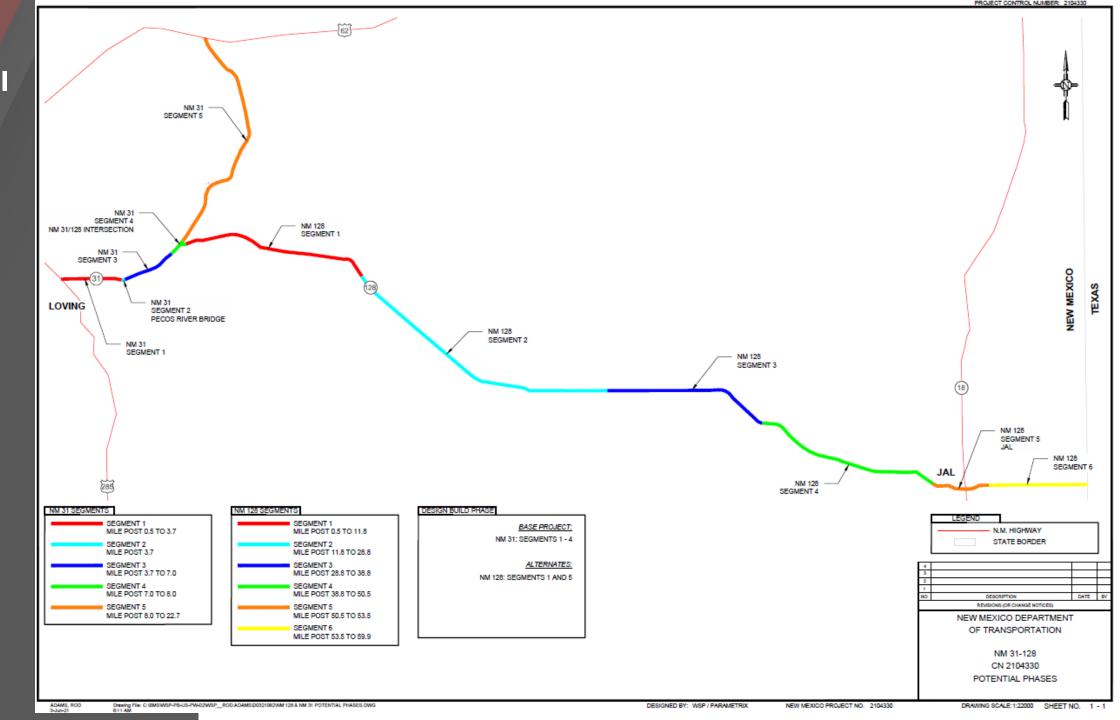


- ▲ Spot Safety Improvement Preliminary Recommendations
 - » NM 31
 - Mosaic / Intrepid / United Salt Corp. Industrial Areas
 - » NM 128
 - Orla Road
 - Buck Jackson
 - Orla Through Buck Jackson Segment



Design-Build Overview Map















Schedule and Next Steps

Project Schedule



- ▲ Start of study (Phase IA/B) Fall 2020
 - » Public meeting August 2021
 - » Public meeting for Jal September 2021
 - » Public meeting May 8, 2022

We are Here

- » Public meeting City of Jal May 24, 2022
- ▲ Completion of study July-August 2022
- ▲ Initial engineering design development Summer 2021 through Summer 2022
- ▲ Environmental analysis & documentation Summer/Fall 2022
- ▲ Anticipated construction start (Design-Build) Summer-Fall 2023^{1,2}
 - » Multiple Construction Phases Depending on Funding
- 1. Estimated
- 2. Funding dependent



Next Steps



- ▲ Gather public input
- ▲ Complete the Phase I-A/B Study Report
- ▲ Complete Environmental Documentation
- ▲ Develop Design-Build Contract Documents (RFP) Now through Fall 2022
- Identify ROW acquisition needs
- ✓ Select Design-Build Team Mid 2023
- ▲ Start Construction of Phase I Summer-Fall 2023



We Want to **Hear from** You...

Please provide us with comments by June 3, 2022

Electronic submittals preferred

▲ How to Provide Comments?

- » Email: jennifer.hyre@wsp.com
- » Call: (505) 878-6577
- » Mail: WSP | Jennifer Hyre | Attn: NM 31-128 2440 Louisiana Blvd NE, Suite 400 Albuquerque, NM 87110

Project website

https://nm31-128project.nmdotprojects.org

All Comments are welcome!!







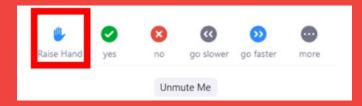






Questions

If you would like to speak, raise your hand
Press *9 if you have dialed-in

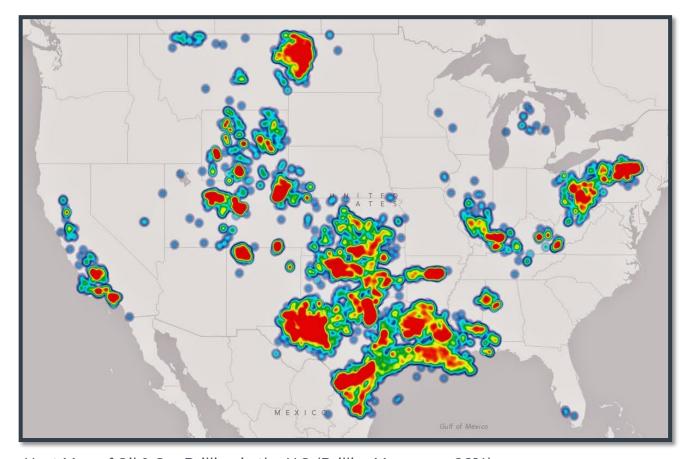


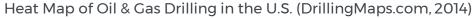
Oil and Gas Activity

Some of the research we studied

▲ Permian Basin Oil & Gas: A 20-mile corridor of NM 31 and NM 128

» Existing, 5 and 10-year projected activities (current)







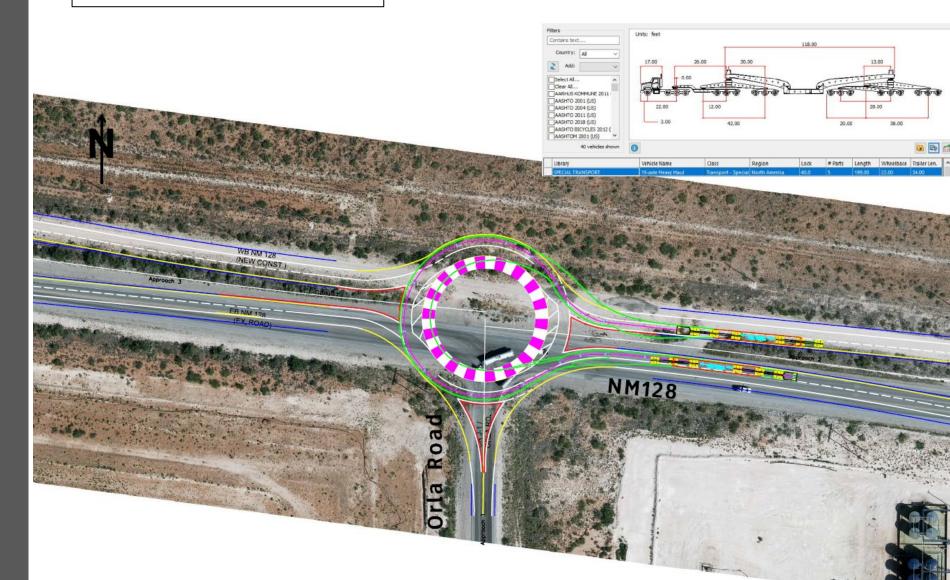
Proposed Rural Intersection Alternatives

Roundabout

Inscribed Diameter: 230'

Lanes: 2@30' Total

Truck Apron: 17'



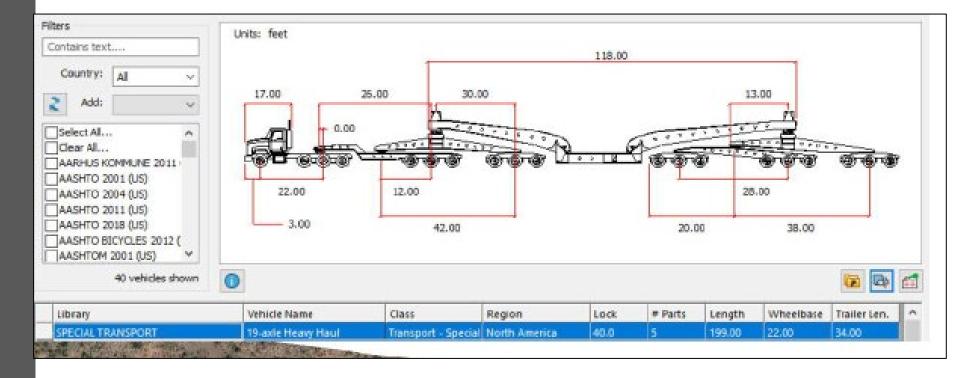
Proposed Rural Intersection Alternatives

Roundabout

Design Vehicle: 19-Axle - 199' long x 22' wide

NMDOT Permits: 200' long x 22' wide

Wind Turbine Blades: 276' long





Proposed Rural Intersection Alternatives

Roundabout

