

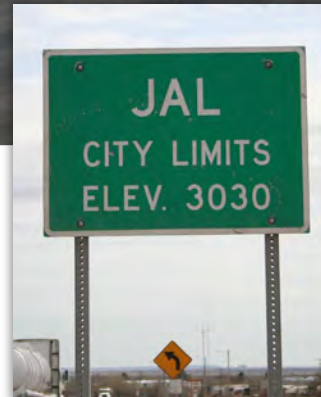
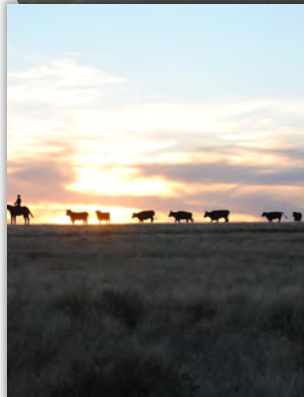
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City of Jal Virtual Public Information Meeting

**NM 31-128
Alignment Study and
Design-Build Project
CN 2104330**

September 14, 2021



Meeting Platform: Zoom



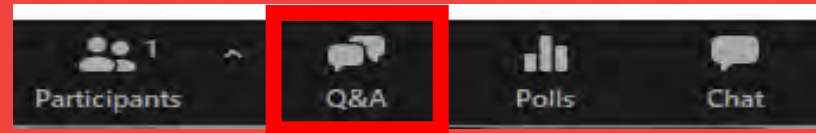
- ▲ Zoom Webinar – only presenters will be on video
- ▲ **This meeting is being recorded**
- ▲ For Spanish translation, select the Interpretation icon on your Zoom toolbar; select “Spanish”
- ▲ *Para escuchar la presentación en español, seleccione el ícono de Interpretación en la barra de herramientas de Zoom; seleccione “Spanish”*



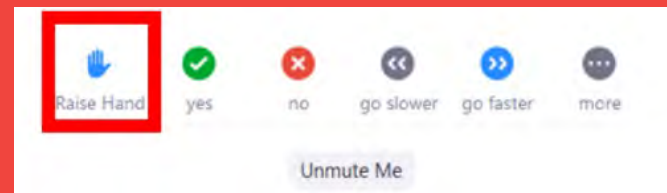
Meeting Platform: Zoom(Cont.)



- 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 Project Development Engineer
- **Terry Ward**, WSP Project Manager
- **Jennifer Hyre**, WSP Environmental Planner



Agenda

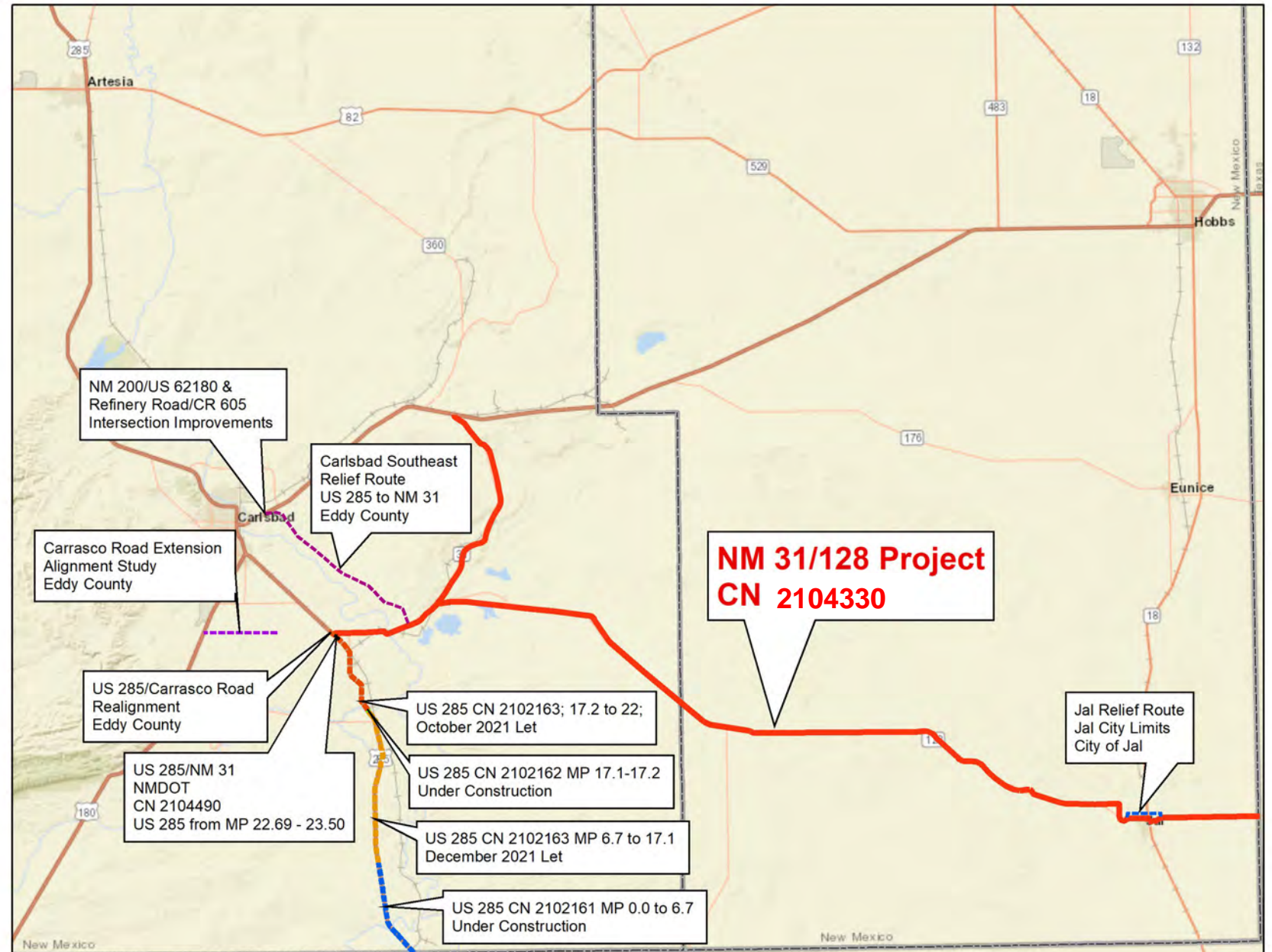
▲ Presentation Topics

1. Re-Cap of August 31st Public Meeting
2. Jal Background and Project Context
3. NMDOT Project Development Process
4. Jal Preliminary and Recommended Alternatives
5. Jal Construction Maintenance of Traffic
6. Design-Build Procurement – Phase I and Project Phasing
7. Schedule and Next Steps

▲ Questions



Tonight we're here to talk about the NMDOT NM 31-128 Project





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Overview of August 31st Public Meeting

Overview of August 31st Public Meeting



▲ The following items were featured for NM 31 and NM 128:

- » Background
- » Purpose and Need
- » Existing Conditions
 - Traffic Density and Crashes
 - Access Management
 - Utilities
 - Environmental / Karst
 - Oil & Gas Activity and Research
- » Mainline and Intersection Alternatives

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



Project Website

- ▲ **Project Information:** <https://nm31-128project.nmdotprojects.org/>
 - This presentation will also be posted there





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Jal Background and Project Context

Traffic and Safety

NM 128 Average Daily Traffic and % Trucks

NM 128 Segment	Average Daily Traffic Volume (vehicles/day)	
	2019	2041
MP 0.0 to WIPP Road	8,200	10,600
WIPP Road to Red Road	8,200	10,600
Red Road to Buck Jackson Road	8,200	10,600
Buck Jackson Road to Orla Road	8,200	11,500
Orla Road to Delaware Basin Road	9,200	12,000
Delaware Basin Road to Battle Axe Road	9,200	12,600
Battle Axe Road to 3rd St	10,400	14,000
3rd St to NM 18	9,400	12,600
NM 18 to Schooley Road	6,200	8,300
Schooley Road to Willis Road	6,200	8,300
Willis Road to NM/Texas Stateline	6,200	8,300

% Trucks generally range from 20-30%



Project Traffic Delay



City of Jal
September 29, 2019 (Sunday) from 4:23 pm to 5:15 pm
Video



Jal Pavement Conditions

▲ Jal Deteriorated Pavement Conditions

- » Existing Pavements are Generally in Poor Condition
- » Reconstruction in Jal
- » Consider Trucks



Jal Drainage Challenges

▲ Jal Drainage Challenges

- » Plugged Drainage Structures
- » Jal Floodplain Areas
- » NM 128 / NM 18 Intersection Area



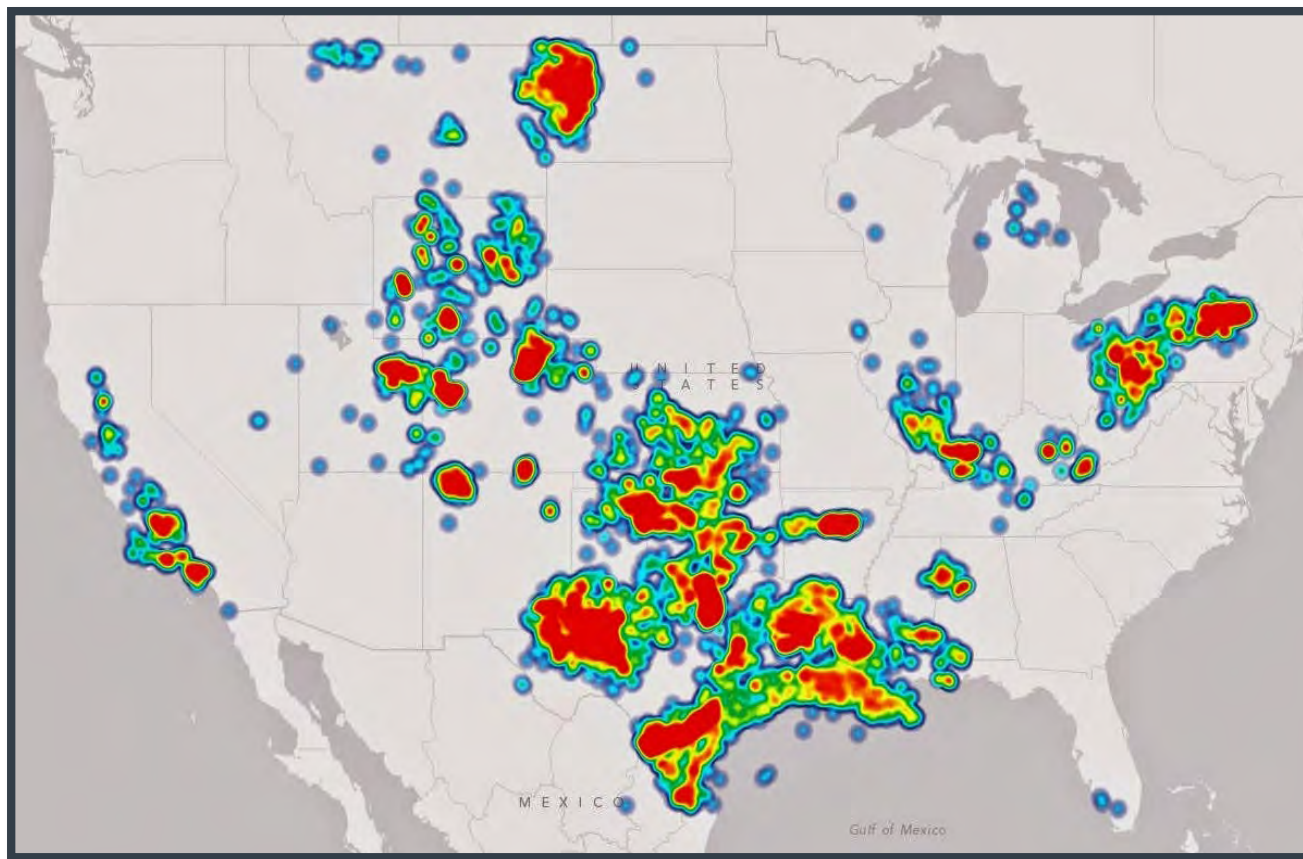
Oil and Gas Activity

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)



Heat Map of Oil & Gas Drilling in the U.S. (DrillingMaps.com, 2014)



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NMDOT Project Development Process

Project Development Process

▲ Phase I

» **Currently in this phase**

» Phase II

» *Final Design*

» Phase III

» *Construction*

Phase IA/B: Alignment Study

- » *Establish Why Improvements are Needed*
- » *Evaluate Alternatives and Select How Improvements will be Implemented*

Phase IC: Environmental Processing

- » *Environmental Investigations*
- » *Obtain Authorization to Construct Improvements*

Phase ID: Preliminary Design

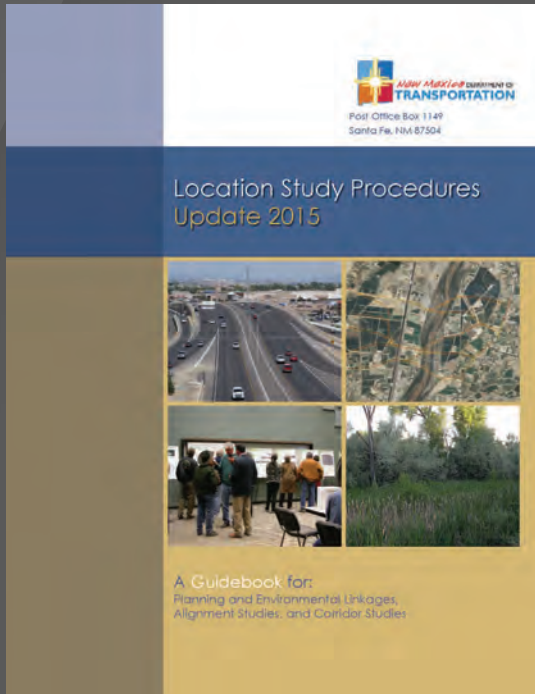
- » *Preliminary Engineering*
- » *Define Right-of-Way Needs*
- » *Prepare Engineering Cost Estimate*

Stakeholder and Public Involvement
– Ongoing throughout Phase I

Collect Comprehensive Data

- ✓ Design and R/W Survey
- ✓ Environmental Surveys
- ✓ Pavement Condition
- ✓ Drainage Conditions

- ✓ Traffic Operations and Safety
- ✓ Access Management
- ✓ Agency Input
- ✓ Stakeholder Input





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Jal Preliminary and Recommended Alternatives

Jal Proposed Alternatives



▲ Key Challenges

- » Traffic and Safety
 - NM 128 / NM 18, including Railroad Crossing
 - NM 128 / 3rd Street
- » Safely Maintaining Traffic & Access During Construction
- » Funding
- » Utility Facilities
- » Stakeholder Engagement

Proposed Mainline Alternatives



▲ Highway Improvements

» What is a Typical Section?

A Typical Section is a **graphical representation of the proposed work as if you were standing at a location looking down the roadway.**

Proposed Mainline Alternatives

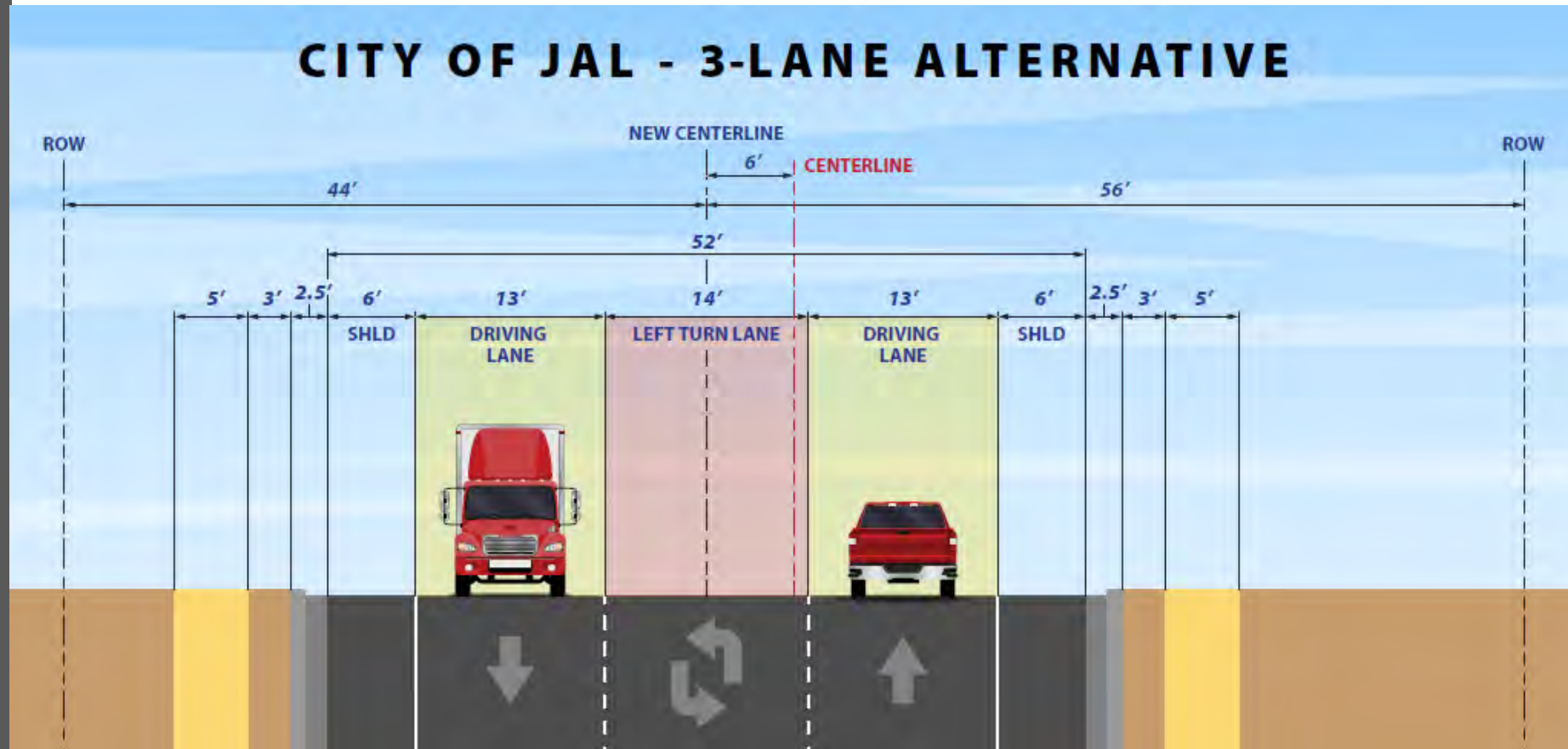
3-Lane TWLTL Alternative

▲ Jal NM 128 Alternatives

The No Build will
also be considered

▲ Jal NM 128 Alternatives

- » 3-Lane – Two-Way Left Turn Lane (TWLTL)
 - Matches Existing, except wider
- » 4-Lane – Screened out
- » 5-Lane – Screened out



Proposed NM 128 Alternatives in Jal

3-Lane TWLTL Alternative



▲ NM 128 TWLTL Layout in Jal in a Few Slides

- » In the air looking down at what is proposed at this time to be built
- » **Virtual Meetings with Project Team for NM 128 abutting property owners** can be scheduled by contacting WSP, Jennifer Hyre (*contact information provided at end*)
- » **In-Person meetings will be offered by the project team to the properties/businesses** abutting NM 128 in the City of Jal during the months of **October-December**



Proposed NM 128

JAL 3-Lane TWLTL Alternative



▲ Review of Project Layout in Jal





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Jal Construction Maintenance of Traffic

Jal Proposed Improvements

▲ Maintenance of Traffic During Construction

- » Strive to keep NM 31 and NM 128 open during construction, including all access points
- » Coordination closely with stakeholders and businesses
- » Contractor expected to provide look-ahead schedules and anticipate traffic impacts
- » Traffic delays during construction likely



Jal Proposed Improvements

▲ Maintenance of Traffic During Construction

» Typical Sections





Project Delivery Method: Design-Build Procurement Phase I and Project Phasing

PROJECT CONTROL NUMBER: 2104330

NEW MEXICO
TEXAS

LOVING

NM 31 SEGMENT 5

NM 31 SEGMENT 4
NM 31/128 INTERSECTION

NM 31 SEGMENT 3

NM 31 SEGMENT 2
PECOS RIVER BRIDGE

NM 31 SEGMENT 1

NM 128 SEGMENT 1

NM 128 SEGMENT 2

NM 128 SEGMENT 3

NM 128 SEGMENT 4

NM 128 SEGMENT 5
JAL

NM 128 SEGMENT 6

JAL

LEGEND

N.M. HIGHWAY

STATE BORDER

NM 31 SEGMENTS

SEGMENT 1	MILE POST 0.5 TO 3.7
SEGMENT 2	MILE POST 3.7
SEGMENT 3	MILE POST 3.7 TO 7.0
SEGMENT 4	MILE POST 7.0 TO 8.0
SEGMENT 5	MILE POST 8.0 TO 22.7

NM 128 SEGMENTS

SEGMENT 1	MILE POST 0.5 TO 11.8
SEGMENT 2	MILE POST 11.8 TO 28.8
SEGMENT 3	MILE POST 28.8 TO 38.8
SEGMENT 4	MILE POST 38.8 TO 50.5
SEGMENT 5	MILE POST 50.5 TO 53.5
SEGMENT 6	MILE POST 53.5 TO 59.9

DESIGN BUILD PHASE

BASE PROJECT:
NM 31: SEGMENTS 1 - 4
ALTERNATES:
NM 128: SEGMENTS 1 AND 5

REVISIONS FOR CHANGE NOTICES

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			

NEW MEXICO DEPARTMENT
OF TRANSPORTATION

NM 31-128
CN 2104330
POTENTIAL PHASES

DESIGNED BY: WSP / PARAMETRIX

NEW MEXICO PROJECT NO. 2104330

DRAWING SCALE: 1"=2000'

SHEET NO. 1 - 1

Design-Build

▲ Design-Build

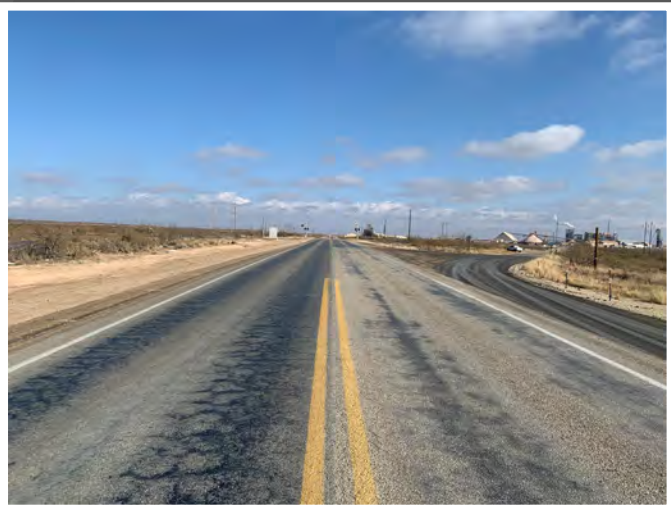
What is Design-Build?

A procurement method where NMDOT **hires a team to complete the design and construct the project.**

Why Does NMDOT want to use Design-Build for this project?

Construction can start sooner as compared to NMDOT finishing all design. Design-Build projects **tend to move at a faster pace.**

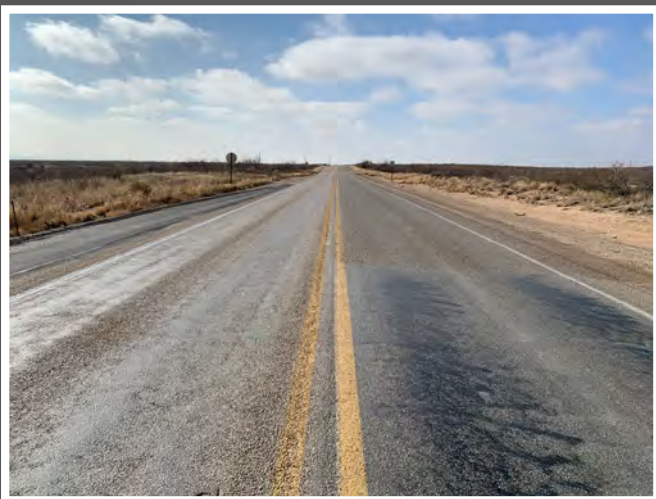
It will **look like a traditional project with contractor more involved in public outreach and key items** such as environmental compliance and utility coordination.



Design-Build

Project Goals:

- ▲ A high quality, safe, environmentally responsible, durable, and maintainable Project
- ▲ Minimum disruption to the local industries and traveling public during construction
- ▲ Design-Build Agreement awarded and signed by **Fall 2022**
- ▲ Maximizing the value of the Design-Build delivery method



Design-Build

- ▲ The overall corridor improvements will be phased
- ▲ NMDOT will procure a single design-builder to design and construct the initial Phase I Project
- ▲ The Design-Build Project will have alternatives based on funding availability
- ▲ NMDOT will use a “best value” approach to select the design-builder



Design-Build

The Design-Build phase 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 cost: **\$70-\$80 million**



Design-Build

The Design-Build Phase will consist of the following add alternative elements:

- ▲ City of Jal Improvements
 - » Estimated Cost: **\$16-\$19 million**
- ▲ NM 128 from NM 31 to the WIPP Road
 - » Estimated Cost: **\$40-\$45 million**
- ▲ NM 31 and NM 128 Site Safety Improvements
 - » Estimated Cost: **\$2-\$10 million**
- ▲ Added into Design-Build Contract, if funding is secured.



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Schedule and Next Steps

Project Schedule



- ▲ Start of study (Phase IA/B) – **Fall 2020**
 - » *Public meeting – **August 31, 2021***
 - » *Public meeting for Jal – **September 14, 2021*** ← **We are Here**
- ▲ Completion of study – **November/December 2021**
- ▲ Initial engineering design development – **Summer 2021 through Spring 2022**
- ▲ Environmental analysis & documentation – **Spring/Summer 2022**
- ▲ Public meeting – **January/February 2022**
- ▲ Anticipated construction (Design-Build) – **Fall/Winter 2022^{1,2}**
 - » *Multiple Construction Phases Depending on Funding*

1. Estimated
2. Funding dependent

Next Steps

- ▲ Gather Public Input
- ▲ Perform Detailed Evaluation of Alternatives
- ▲ Finalize Phase IA/B Study
- ▲ Additional Public Meeting and Gather Input
- ▲ Initial Engineering
- ▲ Complete Environmental Documentation
- ▲ Develop Design-Build Contract Documents (RFQ, RFP) – **Now through Summer 2022**
- ▲ ROW Acquisition
- ▲ Select Design-Build Team – **Fall 2022**
- ▲ Start Construction of Phase I Design-Build Improvements



We Want to Hear from You...

Please provide us with comments by October 15, 2021.

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

▲ Properties/businesses abutting NM 128 in the City of Jal – ask us for a meeting

▲ Project web site

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

All Comments are Welcome!!





THANK YOU



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Questions

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

