

Project Neon Update

Nevada Transportation Conference

May 8, 2019



LIVE

FOX 5
NEWS

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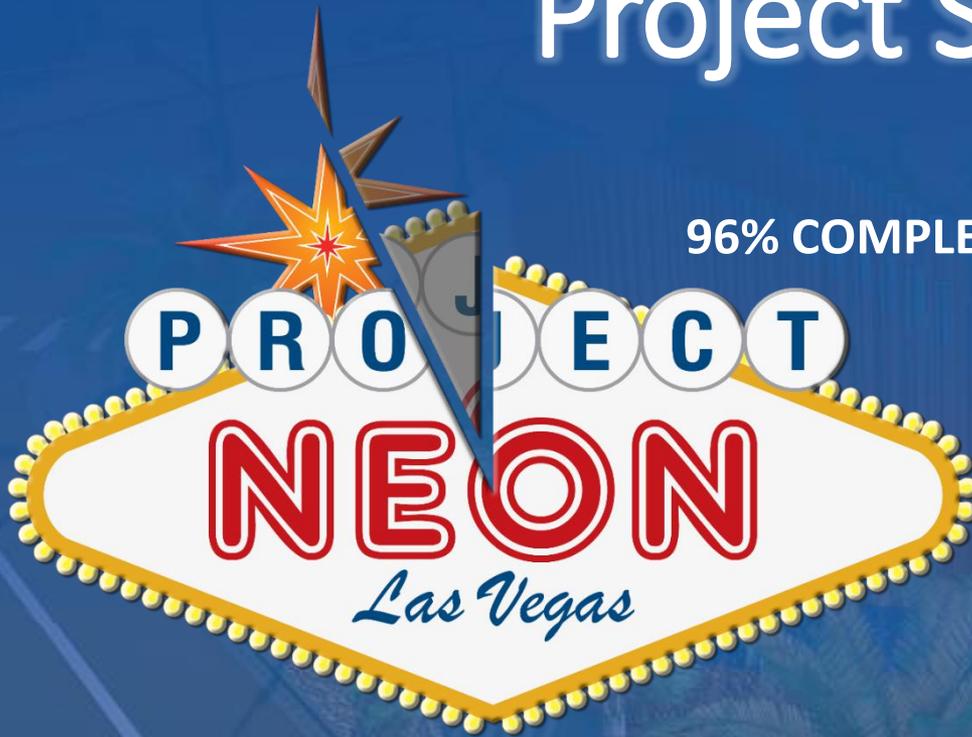
FOX 5
KVVU-TV
LAS VEGAS



PROJECT STATUS

Project Status

96% COMPLETE



\$603M

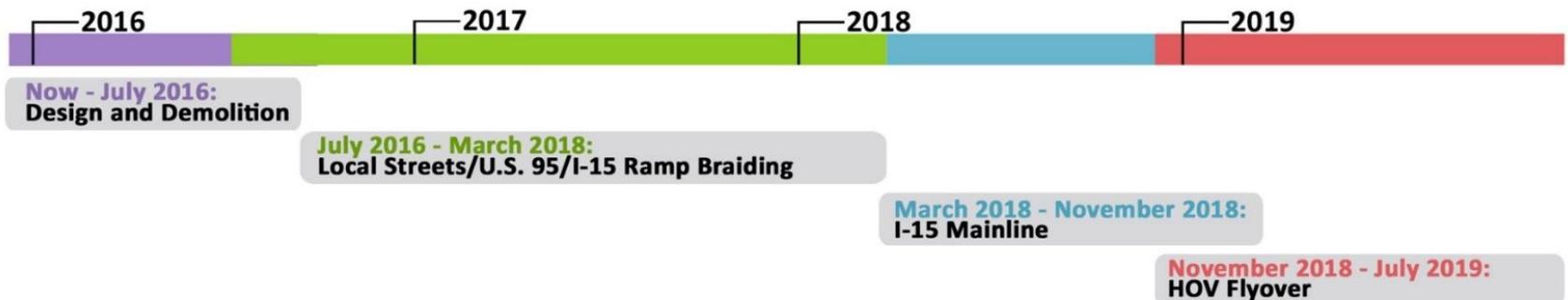
TOTAL CONTRACT
AMOUNT

\$583M

SPENT TO DATE



SCHEDULE



By the Numbers

29 Bridges



Active Traffic Management Signs



Work Hours



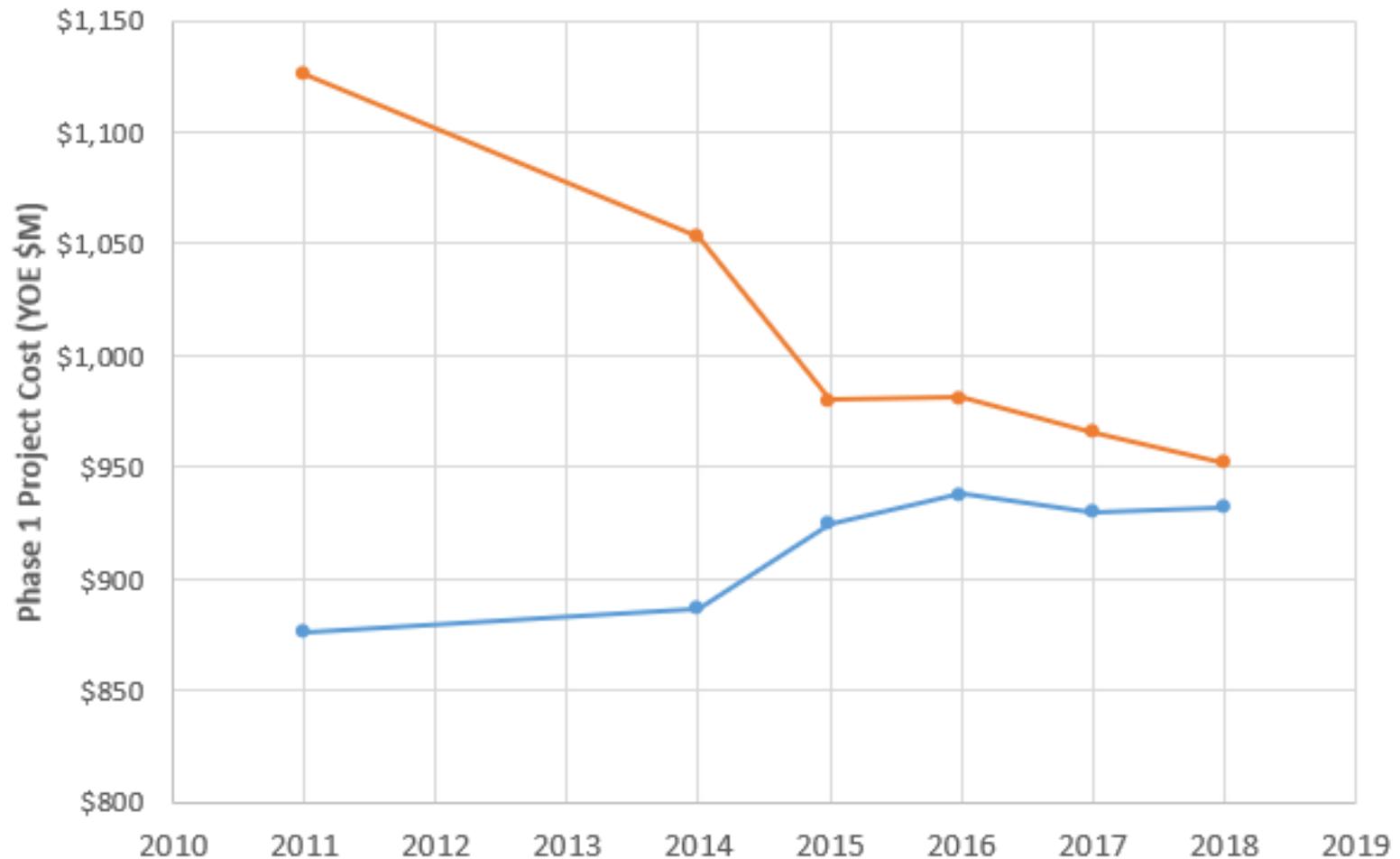
Metrics

- Project Costs

Project Cost Element	Project Cost (\$ Million, <u>YOE</u>)		
	Costs to Date	Base Cost	70 th Percentile
Preliminary Engineering	53.5	61.0	59.0
Right-of-Way	238.7	240.0	243.2
Construction	453.6	637.0	643.1
Totals	745.8	938.0	945.3

Metrics

- CRA Cost Project History





PROGRESS



HOV Flyover



HOV Flyover



HOV Flyover



HOV Flyover



HOV Flyover



I-15 at Alta/Bonneville



I-15 at Alta/Bonneville



I-15 at Alta/Bonneville



Local Street Connections



Local Street Connections



Local Street Connections



Local Street Connections





LESSONS LEARNED / BEST PRACTICES

Best Practices

- Utilities

PRELIMINARY UTILITY WORK PACKAGE **BID**

NTP + 120 DAYS (*DB Verify Via Potholing*)

RIGHTS TO CHANGE (*Change Order*)

AFTER 120 DAYS, CHANGE WINDOW CLOSED
Risk is Transferred to the Contractor

Lessons Learned

- Incentives
 - Cuts both ways
 - Resources get pushed towards incentives
 - Other activities may fall to later in the project

	Incentive Payment (per day)	Maximum Allowable Incentive
Substantial Completion	\$100,000	\$6,000,000
I-15 Interim Milestone	\$100,000	\$6,000,000
US 95 Interim Milestone	\$97,000	\$5,820,000
I-15 NB to US 95 SB Ramp Interim Milestone	\$100,000	\$1,000,000
US 95 NB to I-15 SB Ramp Interim Milestone	\$70,000	\$700,000
Grand Central Pkwy Interim Milestone	\$5,000	\$100,000
	Total	\$19,620,000

Lessons Learned

- Change Discipline
 - Currently 40 Change Orders = \$40M (roughly 7%)
 - Incorporate ATCs from unsuccessful proposers
 - Modifications for forward compatibility
 - Handling 3rd Party Changes

Best Practices

- Flexibility / Partnering
 - Colocation inspired responsiveness
 - Cross-communication at all levels
 - Executive leadership buy-in



Best Practices

- Extensive Outreach from Owner
 - Public Outreach Officer dedicated to Project
 - Engaging the community
 - Branding
- Local Agency Partnership
 - Setting expectations with Agencies and Contractor



HIGH OCCUPANCY VEHICLE (HOV) LANES

New HOV System



HOV System
System limits, NB & SB.



Northbound Access
HOV entrances & exits.



Southbound Access
HOV entrances & exits.



HOV Interchange
Direct access to/from HOV lane.



Park and Ride
Park your vehicle and carpool to your destination.



Rules



Vehicle with 2+ persons

Yes! Babies count.

Vehicle with only one person

Minimum of two required.



Motorcycles

Even if only one person.

Electric cars

Unless 2+ persons.



RTC Buses

With or without passengers.

Trucks with 2+ axles

Even if 2+ persons.



Emergency Vehicles

Lights on or off.

Pets as passengers

2+ persons must be human, not pets.



24
hours/day

7
days/week

\$250
fine



ILLEGAL TO CROSS SOLID DOUBLE WHITE LINES.

Benefits



US 95/I-15 HOV Connector



Saves money

Reduced fuel & vehicle costs.



Less congestion

Ride-sharing = Fewer vehicles on the road.



Saves time

Faster commutes, less idle time.

Better connectivity

20+ continuous miles of HOV in the valley.



Improved air quality

Fewer vehicles + less idle time.



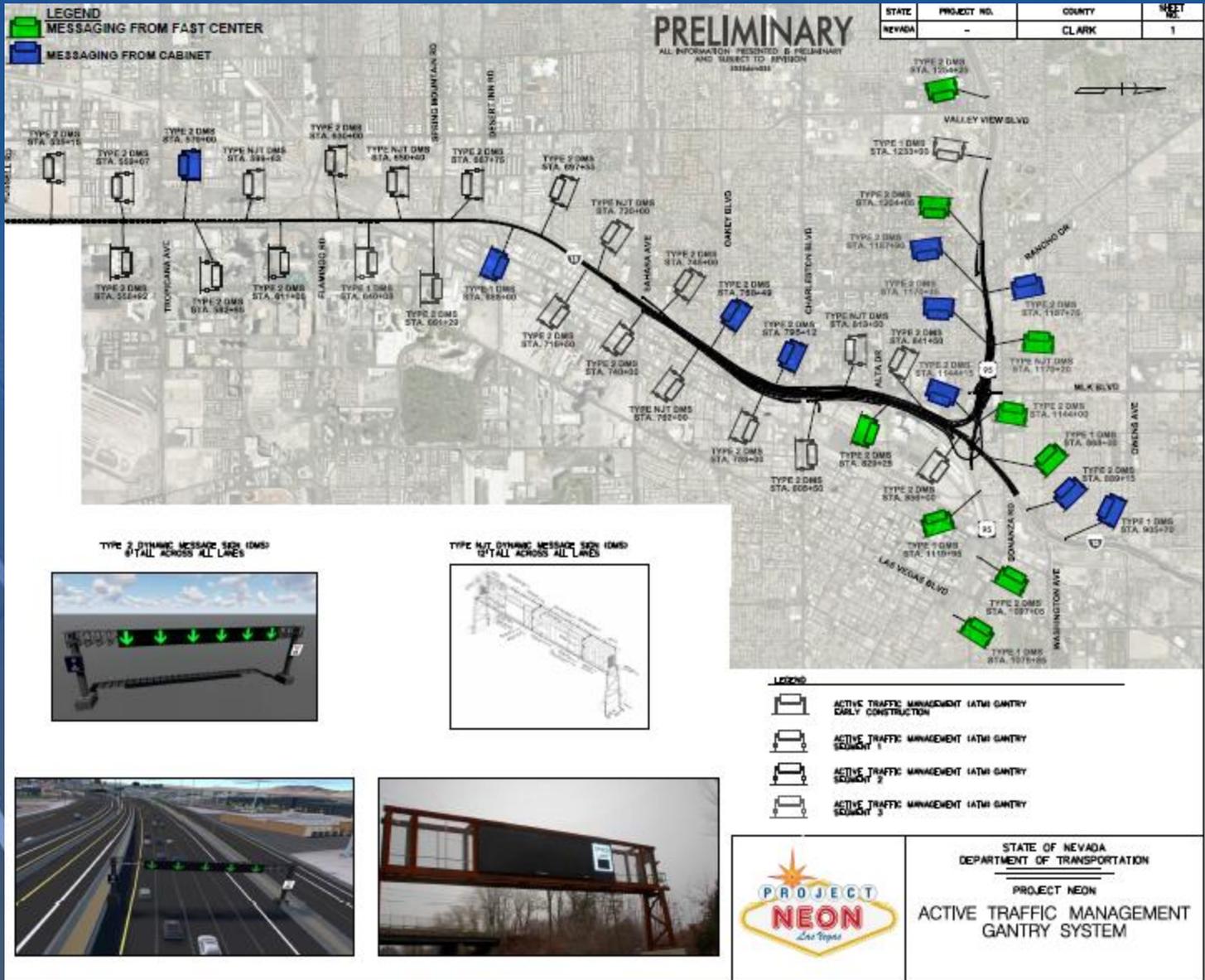
System efficiency

Moving more people
in fewer vehicles.



Neon Gateway HOV Interchange
located just south of Charleston

New ATM System



How does it work?



Lane open to traffic



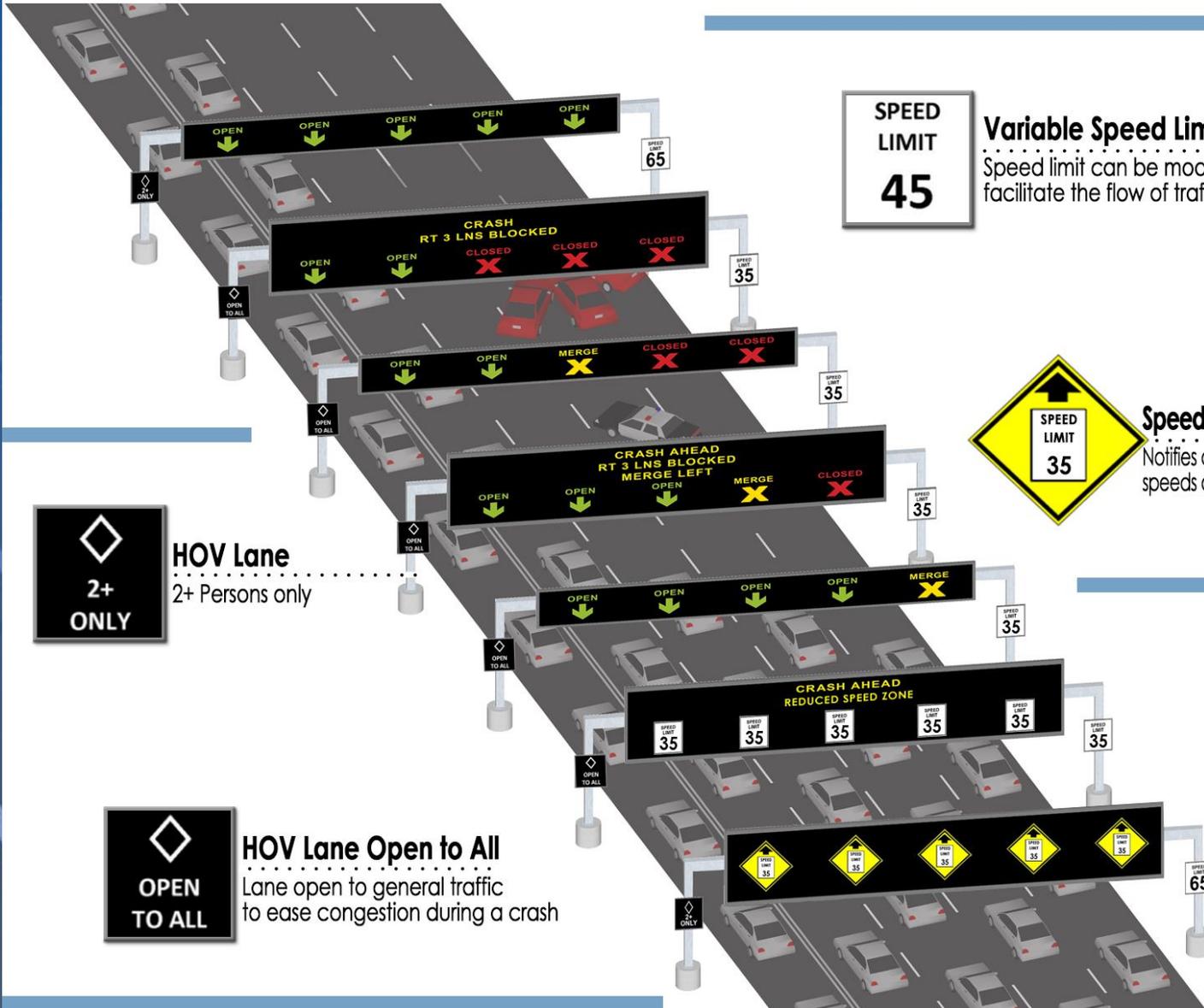
Proceed with caution



Lane closing ahead
Prepare to merge



Lane closed to traffic



SPEED LIMIT
45

Variable Speed Limit

Speed limit can be modified to facilitate the flow of traffic



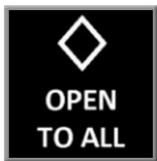
Speed Reduction Warning

Notifies drivers of reduced speeds ahead



HOV Lane

2+ Persons only



HOV Lane Open to All

Lane open to general traffic to ease congestion during a crash

Benefits



Reduces number and severity of crashes

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Travel lane management

.....



Speed harmonization

.....



Supports work zone management

.....



Improves trip reliability, accuracy of posted travel times

.....



Ability to open HOV lanes to all

.....



Increases safety

.....



Improves operations

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Questions?

