



Specialized
Carriers &
Rigging
Association

OUR MEMBERS **LIFT & MOVE** THE WORLD

SC&RA Update

Task Force on Vehicle Weights &
Dimensions Policy
December 6, 2022
Montreal, Quebec



WHO WE ARE

- Nearly **1,400** members from **46** nations
- Over **100 headquartered in Canada** with many more operating daily
- Crane and Rigging operations
- Specialized Transportation
- Machinery Moving and Erecting
- Industrial Maintenance
- Millwrighting
- Concrete Pumping
- Manufacturing
- Rental



Our Members Lift and Move the World!

INDUSTRIES WE SUPPORT

2021 employment and 2022 GDP (latest available) for key industry sectors

- **Construction:** 7.4 million employed in 2021 and \$1.0 trillion of GDP in 2022
- **Utilities:** 540 thousand employed in 2021 and \$440 billion of GDP in 2022
- **Manufacturing:** 11.1 million employed in 2021 and \$2.1 trillion of GDP in 2022
- **Mining:** 390 thousand employed in 2021 and \$110 billion of GDP in 2022
- **Petrochemical:** 1.1 million employed in 2021 and \$1.1 trillion in 2022





Heavy Lifting

In 2022, the U.S. freight transportation system moved 19.96 billion tons of freight worth \$19.87 trillion by land, water, and air.

The top 50 specialized transport companies operated almost 24,700 trucks, and had a combined capacity of over 1.2 million tons.

North America's 100 largest crane-owning companies owned almost 18,700 cranes which could lift almost 2.6 million tons.



Precision Specialized Incorporated was contracted to move a **63,500-kilogram E-House 77 kilometers** from Burlington to Branchton, Ontario. Using a 9-axle trailer, the **22m x 6.4m x 6m** structure was moved in only 2 days from a conservation area where no oversize loads were allowed from a field where trees and many other obstacles were in the way.



Emmert International was contracted to move two **136,000-kilogram** rotary cookers over **4700 kilometers** miles from the Port of Houston to Alberta. Utilizing 12 axle lines with pull and push trucks, the job overcame several hurdles, from multiple jurisdictional regulations to Mother Nature herself.



NCSG Crane and Heavy Haul moved two De-Methanizer Towers from Edmonton to Marianna Lake, Alberta, Canada to a new project site that exceeded **254,000 kilos** and **55 meters** in length. Through planning, innovation and numerous field visits, a bunked trailer configuration was found to be able to meet all required maximum permissible axle loadings along the route. The bunked configuration allowed the load to be maneuvered along tight corners to exit from the fabrication yard to be delivered safely onsite.

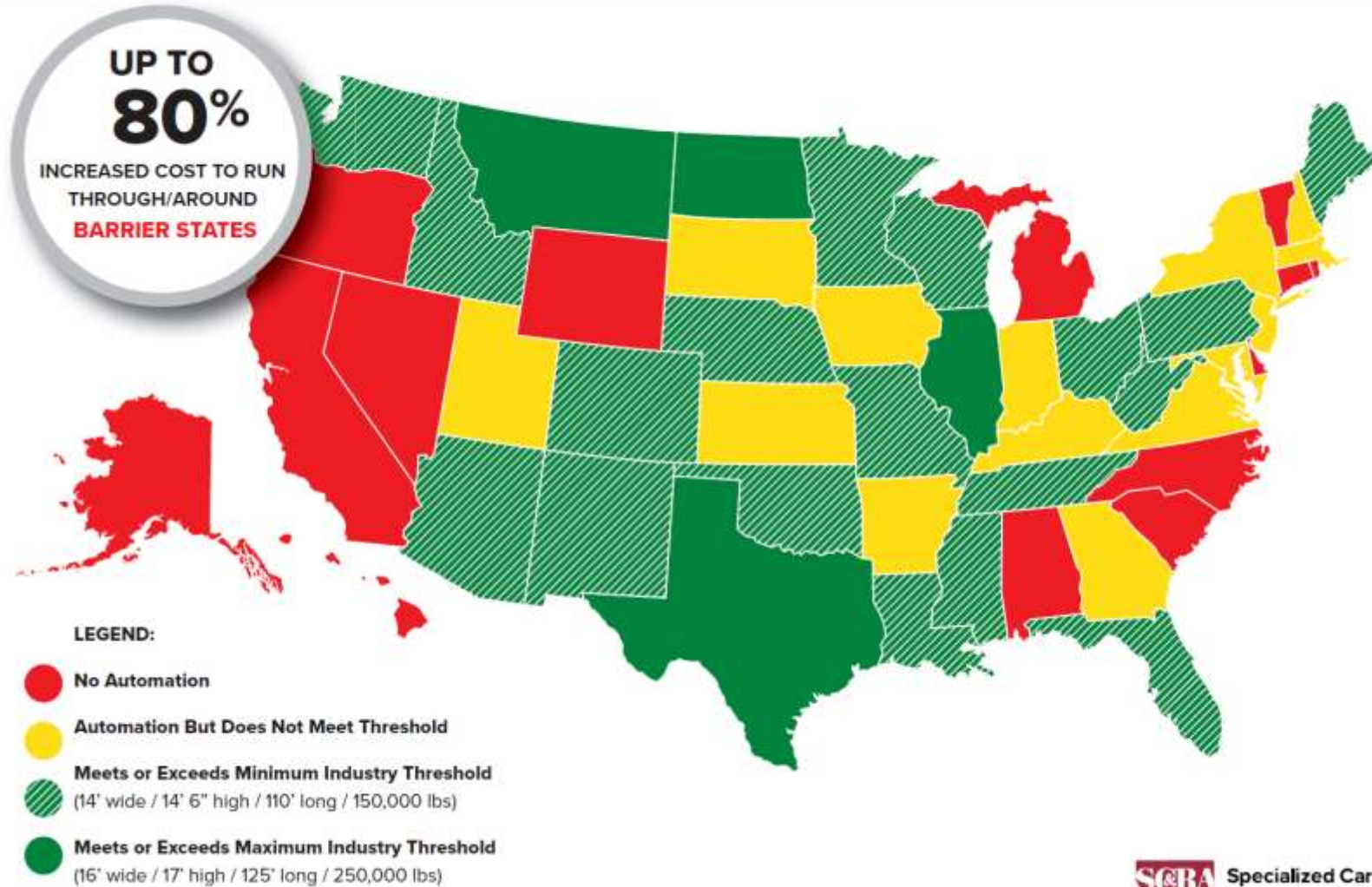


Barnhart used its own 24 dolly rig to move two generators weighing in at **381,000 kilograms each** across the cold Alberta tundra in advance of the spring thaw and with less than five weeks to plan and execute the move. In addition to winter travel conditions, the move also faced international regulatory hurdles along the **418-kilometer** trek.

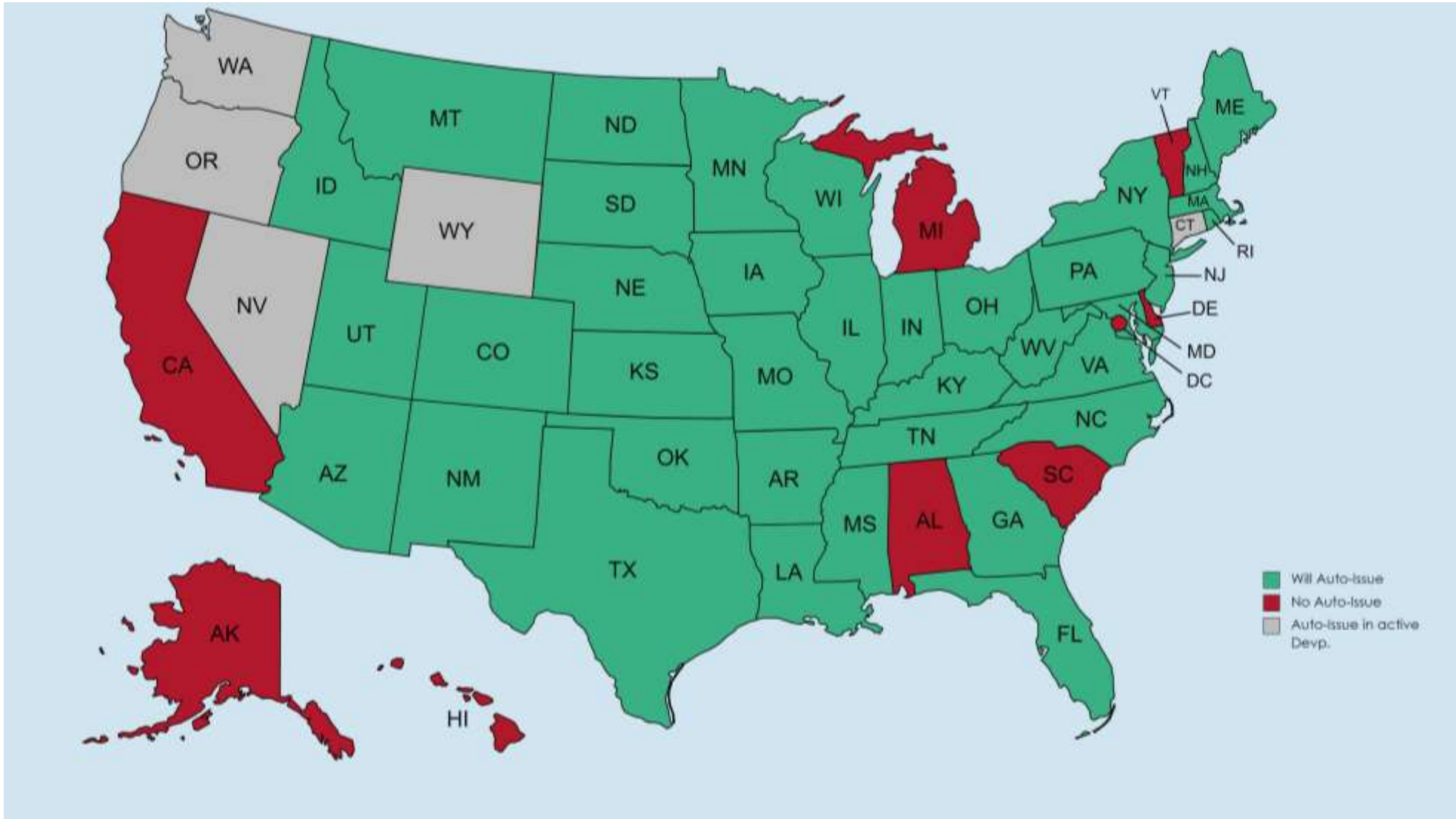


WHERE
WE'VE BEEN

Auto-Issue Single Trip Weight & Dimension Thresholds



2018



2023

AASHTO PERMIT HARMONIZATION

- **Seek solutions** less restrictive or status quo, **not** more restrictive
- **Balance** consistency while maintaining safety
- **Recommend** voluntary harmonization, **not** mandatory uniformity
- **Phase I** and **Phase II** baselines **unanimously** adopted by AASHTO in 2012 and 2013



PHASE I

Policy	Harmonization Baseline
Width Escort for all highways 2 lanes or more	3.65 m – 4.27 m: 1 front escort > 4.27 m: 1 front and 1 rear escort
Height/Length Escort for all highways	Height: >4.27 m Length: >27.43 m
Flags Size, Color, Location on Transport, location on escort	Size: 45.7 cm x 45.7 cm minimum Color: Fluorescent red or orange Location Transport: 4 corners of load or extremity Location escort: None
Days/Hours of Operation	Daylight Monday – Saturday Sunday states make determination
Signs Message, Color, Size, Letter Size, Location	Message: Oversize Load Color: Black letters on yellow background Size: 45.7 cm x 2.13 m Letter size: 25 cm x 3.6 – 3.8 cm Location: Front and rear not blocking plates
Warning Lights Transport and Escort	Transport: Flashing or strobe amber, 305 m visibility, 360 Escort: Flashing or strobe amber, 152 m visibility, 360

Unanimously adopted by AASHTO in 2013

PHASE II

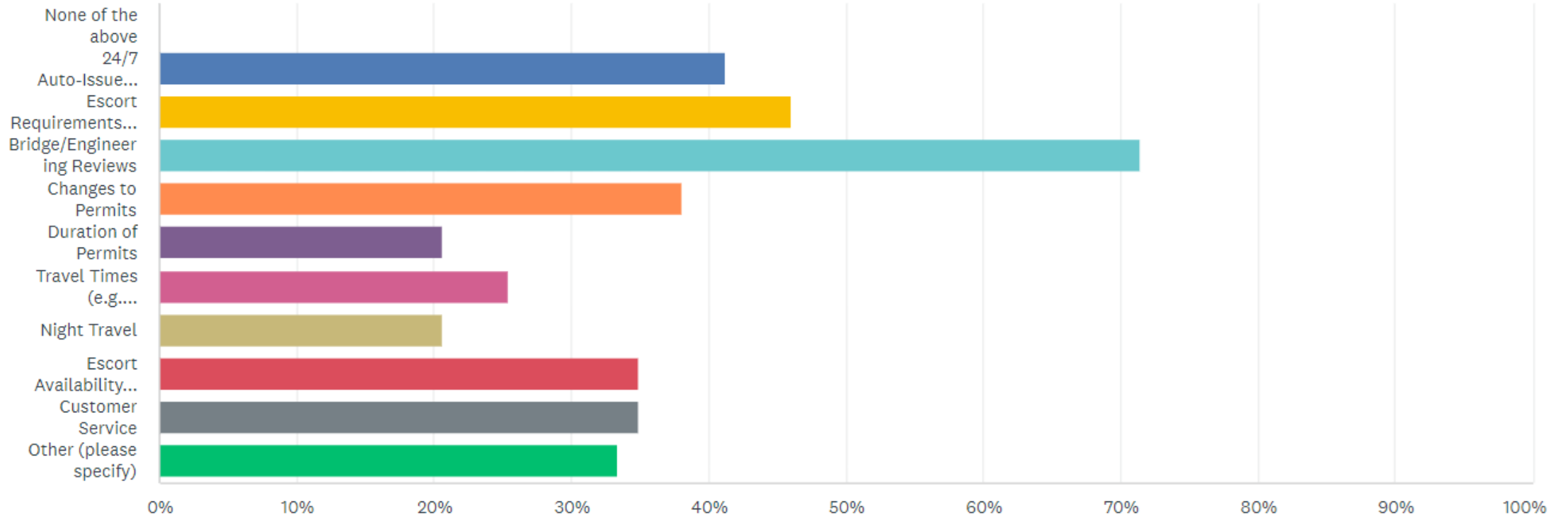
Policy	Harmonization Baseline
# of Valid Days	5
Permit Amendments	Extensions allowed for breakdowns and weather
Holiday Restrictions	Noon Day before holiday – Sunrise Day after Holiday for 6 US federal holidays States may establish others unique to jurisdiction
Days/Hours of Operation	Daylight Monday – Saturday Sunday states make determination
Type/Size of Escort	Legal size Class I, II, or III passenger vehicle 360 visibility Not towing vehicle or trailer
Height Escort when pole required	Front escort with a pole if height > 4.42 m

Unanimously adopted by AASHTO in 2014



2024 TOP INDUSTRY CONCERNS

What are the most challenging policies and processes your company or clients face as it relates to OS/OW permitting in ...





Public Benefits of Permit Auto-Issue

- Average permit turnaround time **decreased to minutes** for routine OS/OW loads
- **30+ states** report moderate increase in applications and issuance
- **Accurate** permits = **Safer** transport
- **Additional** permits = **Additional** revenue
- **Improvements** to infrastructure preservation
- **Reduced** overhead for public agencies = greater flexibility for staffing priorities =
- **Better** customer service

PHASES I & II AUDIT

Phase I	States Harmonized	Phase II	States Harmonized
Width Escort	30	# of Valid Days	30
Height/Length Escort	26	Permit Amendments	33
Flags	28	Holiday Restrictions	37
Days/Hours of Operation	35	Type/Size Escort	32
Signs	29	Height Escort	31
Transport/Escort	27		

* 6 states did not reply to auditors

POLICY DRIVEN OPERATIONAL DELAYS

- **No 24/7** auto-issue
- **Inability** to amend a permit
- **Inconsistent** escort requirements across states
- **Availability** of law enforcement escorts
- **Parking and rest** for entire OS/OW team
- **Inconsistent** permit duration
- **Routing** into a work zone
- **Weather** and **mechanical** issues



Courtesy Precision Heavy Haul

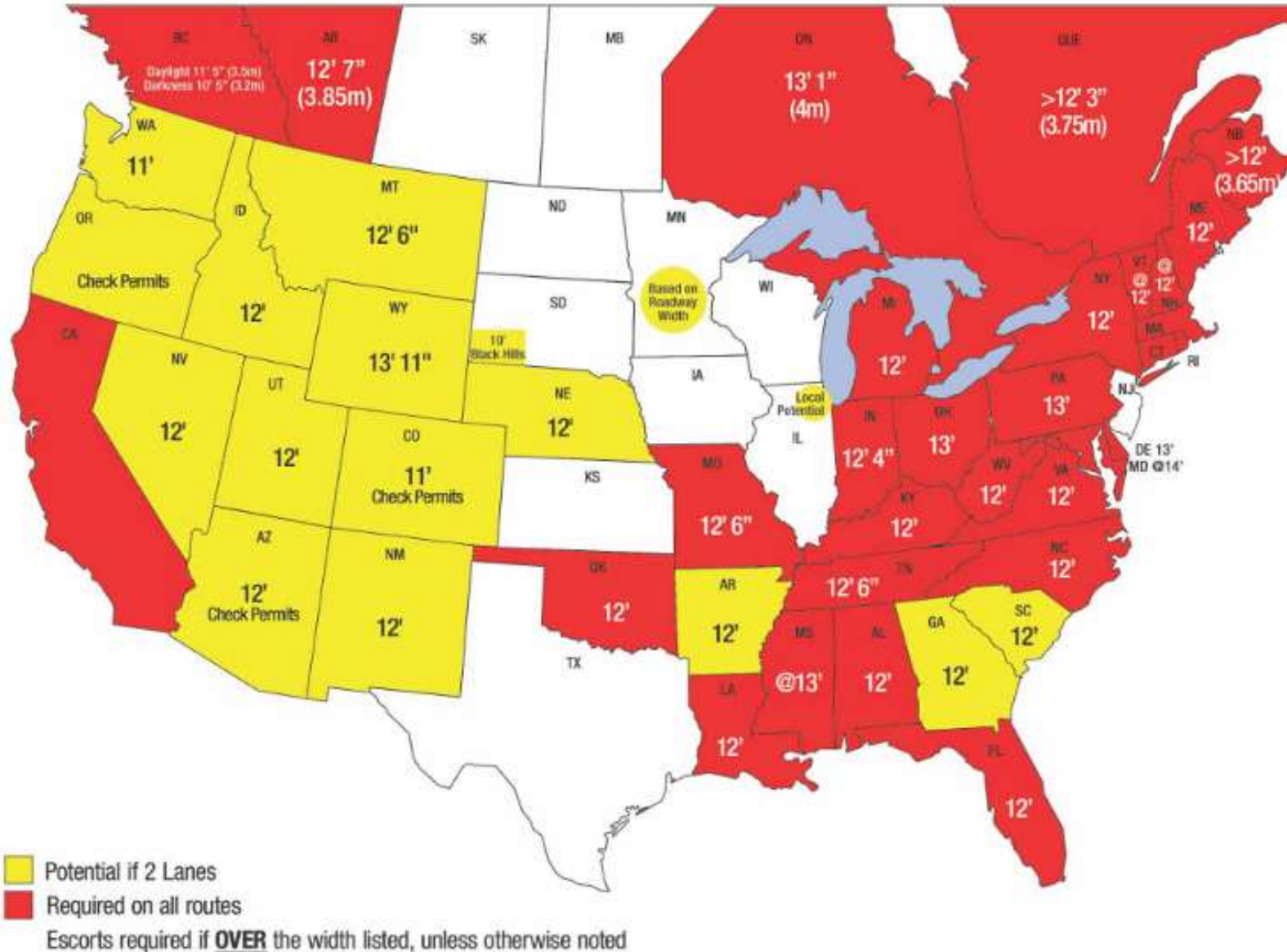
ROUTING



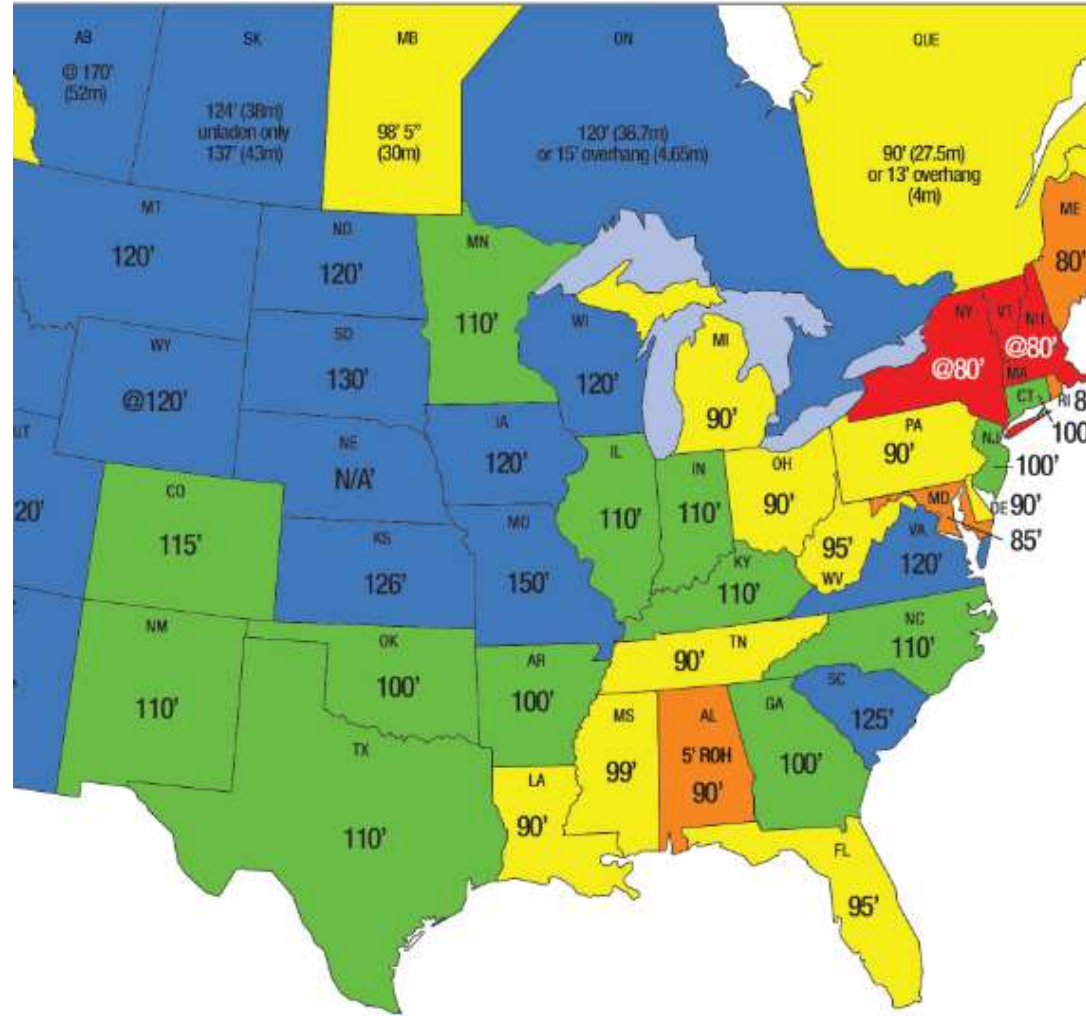
Accurate permits = Safer transport
Additional permits = Additional Revenue

12' 1" up to 14' Wide Escort Requirement Guide

For all widths up to and including 14' wide

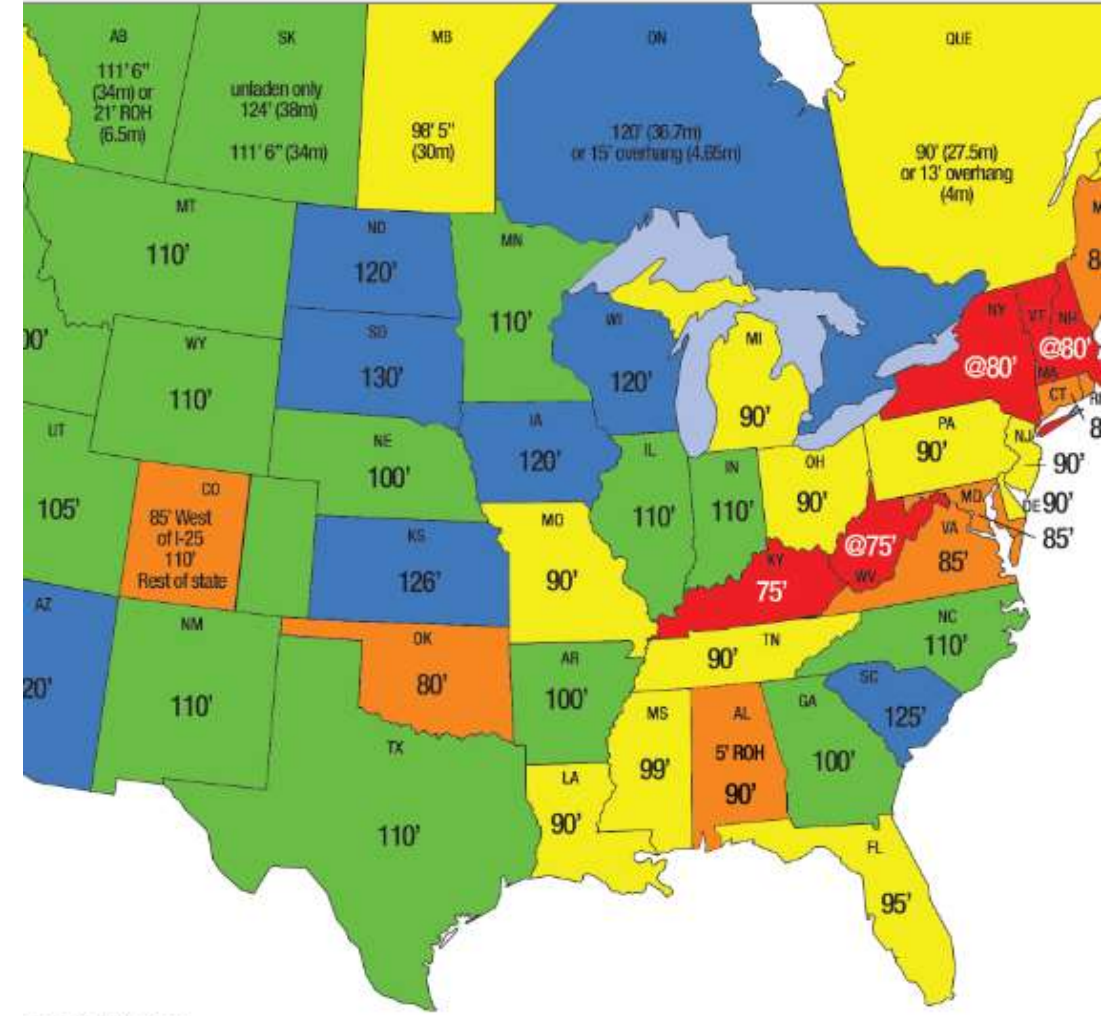


Tractor Length on Primary Routes (4 Lane)



the length listed.

Tractor Length on Secondary Routes (2 Lane)



the length listed.

HOURS OF TRAVEL

"It was going to be a **2-night haul**, and that in and of itself was **complicated**.

Because out here along this **route**, the **country roads** are **22' wide** and there's **not a lot of big-wide parking spots, or weigh stations, or truck stops** to pull into."

Erik Zander, Omega Morgan
2019 & 2020 SC&RA Job of the Year
Winner



Courtesy Barnhart

HOURS OF TRAVEL

Greater than 16' Wide

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
9 am 3 pm	9 am 3 pm	9 am 3 pm	9 am 5 pm	9 am 5 pm	No Travel	No Travel	7 am 5 pm	7 am 5 pm	7 am 4pm
Emmaus, PA	Pittsburgh, PA	Indianapolis, IN	Vandalia, IN	Camdenton, MO	Camdenton, MO	Camdenton, MO	Wichita, KS	Oakley, KS	Briggs dale, CO
Rush Hour	Rush Hour	Rush Hour	Rush Hour	Rush Hour	No Weekend Travel	No Weekend Travel			
PARKING	PARKING	PARKING	PARKING	PARKING	PARKING	PARKING	PARKING	PARKING	

Courtesy National Academy of Sciences, Perkins Transportation, CPCS

- In addition to state and local permit regulations, federal **Hours of Service** rules apply to specialized carriers and mobile crane operators as well.
- SC&RA **30-minute rest break exemption**

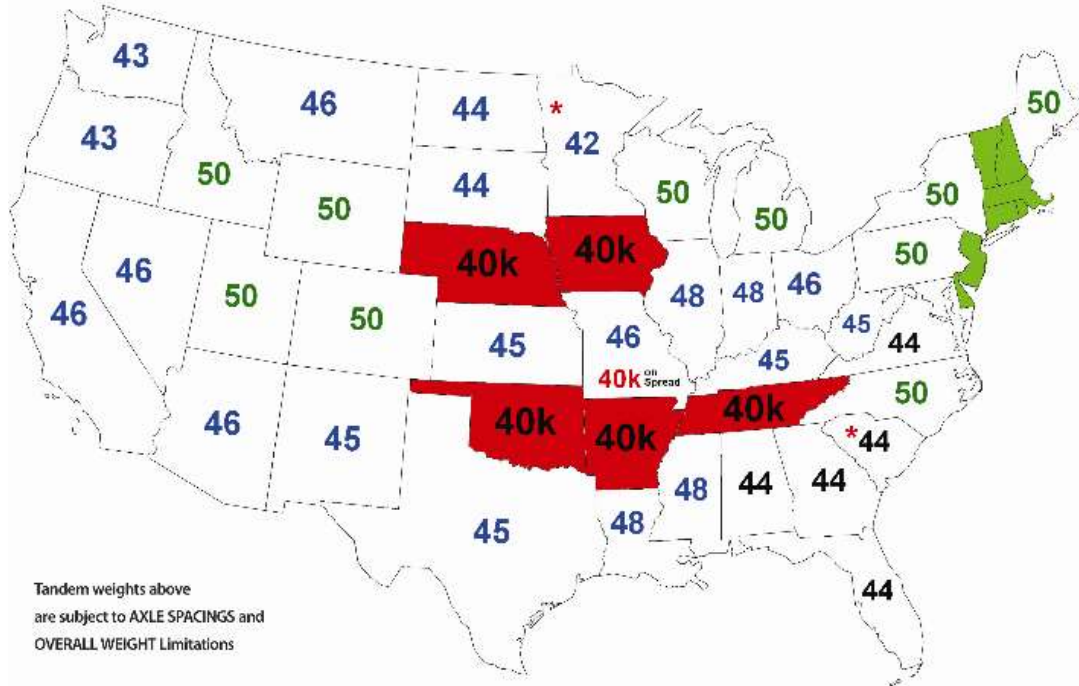
TRUCK PARKING DEMAND

- **State** and **Local** highway and **Indirect** routing
- **Hours of Travel** variance across multiple states
- **Proximity** to permit enforcement activities
- **Geometric Designs** to unable to accommodate irregular loads
- Additional **Operational Delays** expected and unexpected

2012

Tandem Weight Guide OO

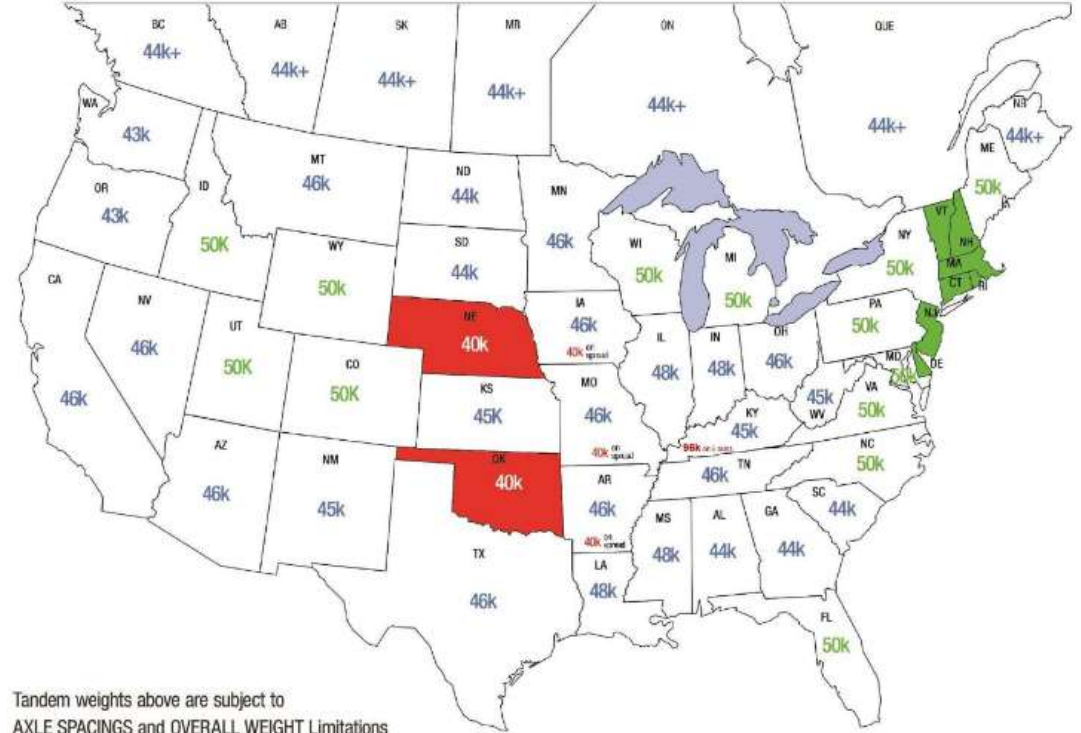
* States may require bridge approval over 40,000



2023

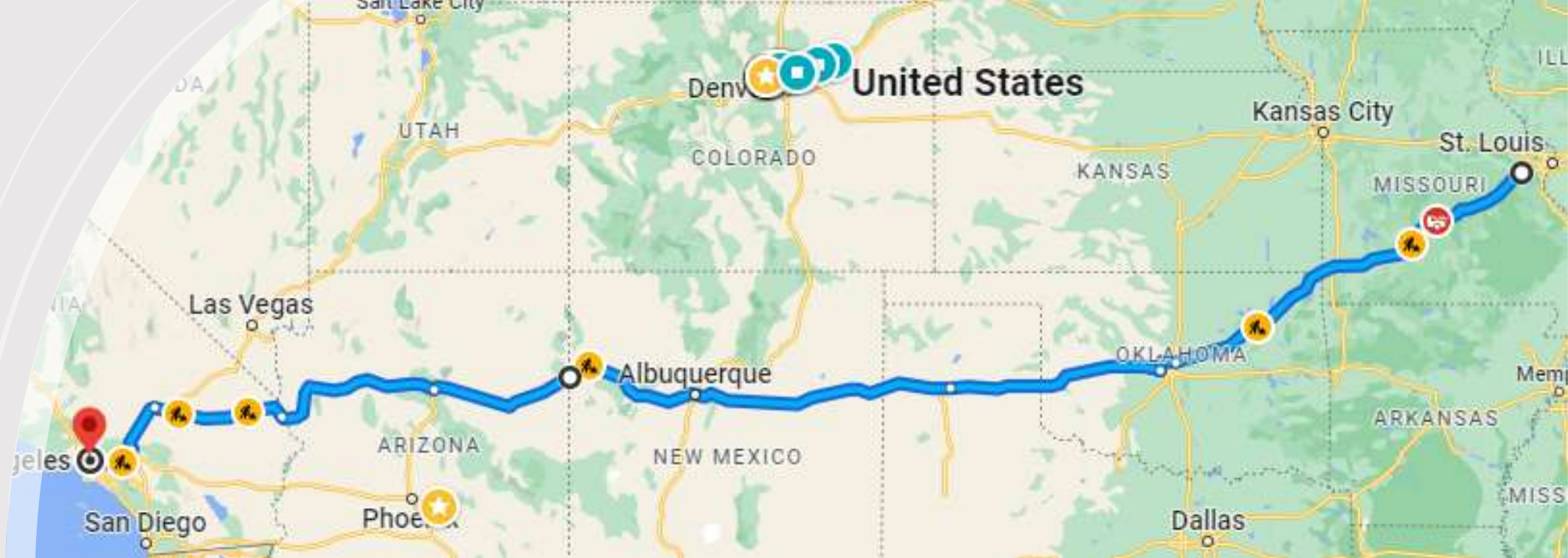
Tandem Weight Guide

States may require bridge approval over 40,000 lbs.









Where Are We Going?



2024 AGENDA

- **Make Final Push for 24/7 Permit Auto-Issue in 50 States**
- **Prioritize Phase I and II Issues and Advance Phase III Negotiations**
- **Identify and Increase Grassroots Industry Outreach Opportunities**
- **Develop and Utilize New Tools and Products**
- **Identify and Target 2024 Individual Jurisdictional Priorities**



SC&RA PHASE III PRIORITIES

- **Full Harmonization of Phases I and II**
- **Weight Uniformity**
- **UPT Auto-Issue Standards including Electronic Permit Verification**
- **Night Movements**
- **Route Surveys**
 - Uniform requirements, common surveys for identical moves
- **Multi-State Corridor Communication Between States and Industry**

PILOT AND ESCORT VEHICLES

- Law enforcement availability
- Only 11 State Certification Programs
- No Validation of Programs
- Availability of adequate insurance
- Carrier Apportioned Liability



WHITE PAPER

PUBLIC BENEFITS AND ECONOMIC DEPENDENCY ON THE CRANE, RIGGING AND SPECIALIZED TRANSPORT INDUSTRY



Opportunities

Many opportunities for governments at all levels to collaborate improve the movement and operations of the specialized transportation, crane, and rigging industries, and in turn increase the economic competitiveness. These include:

Better Harmonize OS/OW Permit Requirements

Increase uniformity of OS/OW permit policies across local, state, and regional authorities as including consistent application of the federal divisible load definition.

Address Future Workforce Availability

These industries require a highly skilled and trained workforce for the benefit of employees' companies, and the public at large. Government agencies should promote the benefits of jobs in these industries and partner with businesses to incentivize workforce recruitment and retention.

Eliminate Regulatory Barriers

For the major industries the specialized transportation, crane, and rigging industries serve.

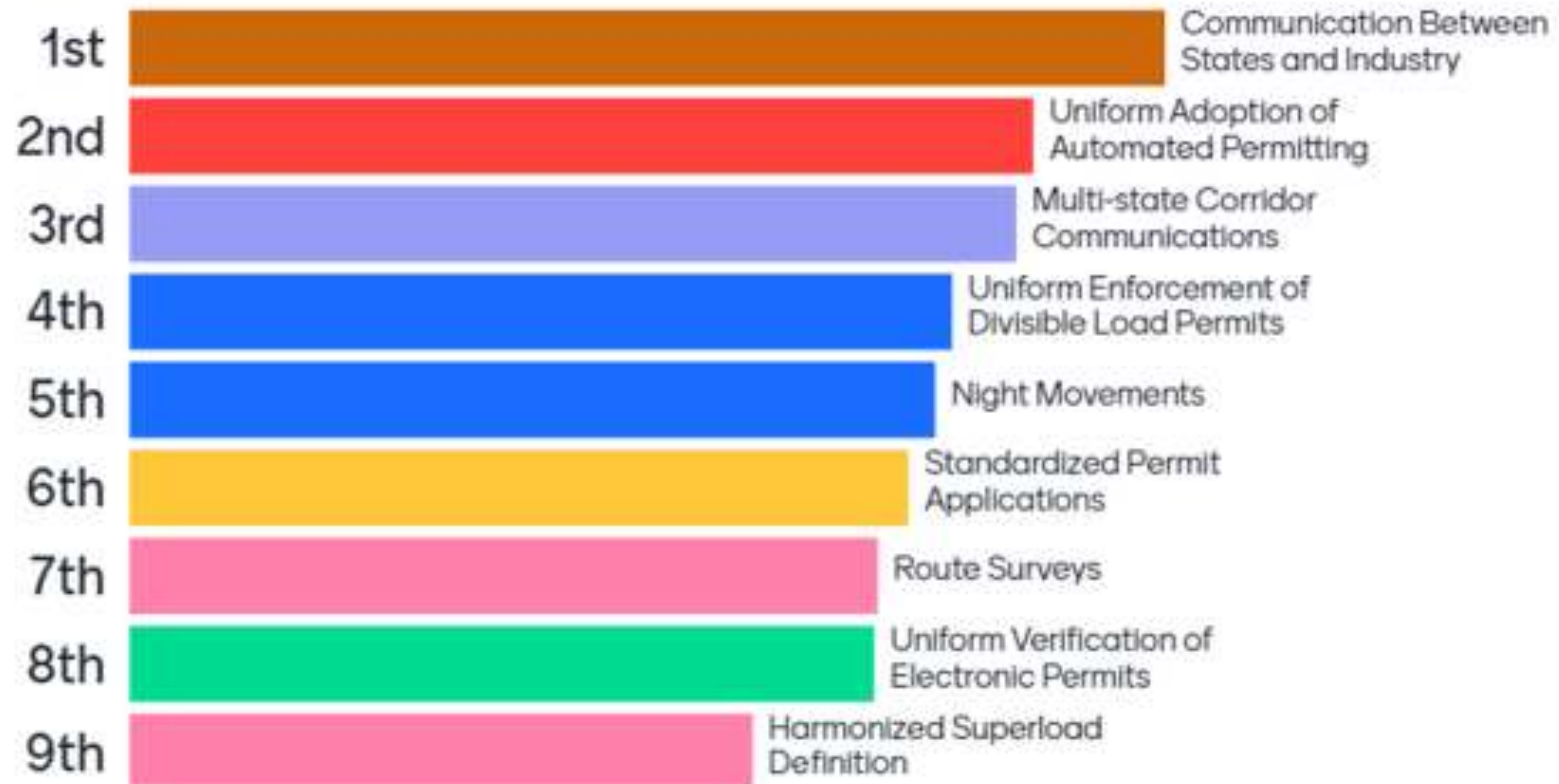
Leverage Technology

24/7 automated permitting and routing enables the industry to self-issue most permits, reducing time and cost to industry and the public alike. Additionally, data from automated systems can also be used to make better planning and programming decisions when designing new infrastructure and improving current infrastructure.



By building effective partnerships with government agencies that both benefit from the industries and regulate these companies, we are confident that a greater understanding will lead to improved communications and uniformity.

PRIORITIZATION SURVEY RESULTS



February 28 live survey results from industry and 25 state representatives.



**Specialized
Transportation
Symposium**

February 20 - 22, 2024
Westin Galleria Houston
Houston, TX

February 20: Regional Caucus and

State DOT 1x1's

February 21: AASHTO

THANK YOU

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SC&RA

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