

PROJECT NO. 0080-0132

BRIDGE NO. 01164

South Street over I-84
Middlebury, Connecticut

Virtual Public Information Meeting
March 5, 2024



A recording of the formal presentation will be posted to YouTube after the live event.
Closed captioning, including non-English translation options, will be available at that time.

La grabación de esta presentación estará disponible después del evento en YouTube,
Incluyendo subtítulos y acceso a traducciones en otros idiomas.

Rehabilitation of Bridge No. 01164 // State Project No. 0080-0312





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- ◊ A complainant may file a complaint directly with the Federal Transit Administration by filing a complaint with the FTA Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5th Floor-TCR, 1200 New Jersey Ave., SE, Washington, DC 20590
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Departamento de Transporte de Connecticut

Título VI Aviso al Público

- ◊ El Departamento de Transporte de Connecticut (CTDOT) se compromete a asegurar que ninguna persona sea excluida de participar en, o le sean negados los beneficios de, sus servicios de transporte basándose en la raza, color o país de origen de la persona protegida por el Título VI de la Ley de los Derechos Civiles. Si a usted le parece que ha sido objeto de discriminación en lo que corresponde al Título VI, puede presentar una queja al CTDOT.
- ◊ Para más información sobre el programa de derechos civiles del CTDOT y el proceso de presentar una queja, comuníquese con el Coordinadora del Título VI del CTDOT al teléfono (860) 594-2169, TRS 711; Debra.Goss@ct.gov. También puede visitar nuestra oficina administrativa en 2800 Berlin Turnpike, Newington, CT 06131. Para más información, visite www.ct.gov/dot.
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Title VI – Your Civil Rights

No Person shall, on the basis of race, color or national origin, be excluded from participation or subject to discrimination in the development of this project.

- Voluntary Post-Meeting Survey:

- <https://portal.ct.gov/ctdotsurvey>



- Civil Rights information:

- <https://portal.ct.gov/DOT/Business/Office-of-Equity/Title-VI-Page>

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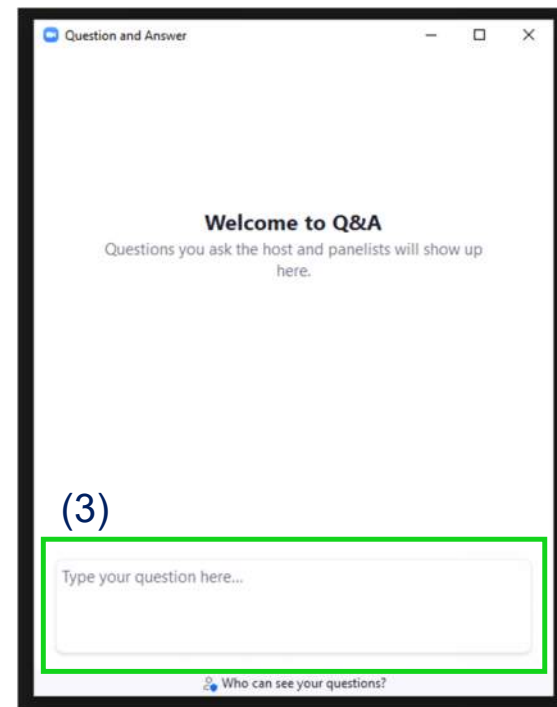
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- (1) Select the Q&A tool at the bottom of the Zoom webinar window.
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(1)



(2)



(3)



Question & Answer Session



by email: DOTProject0080-0132@ct.gov



by phone: **(860) 594-2020 (voicemail)**



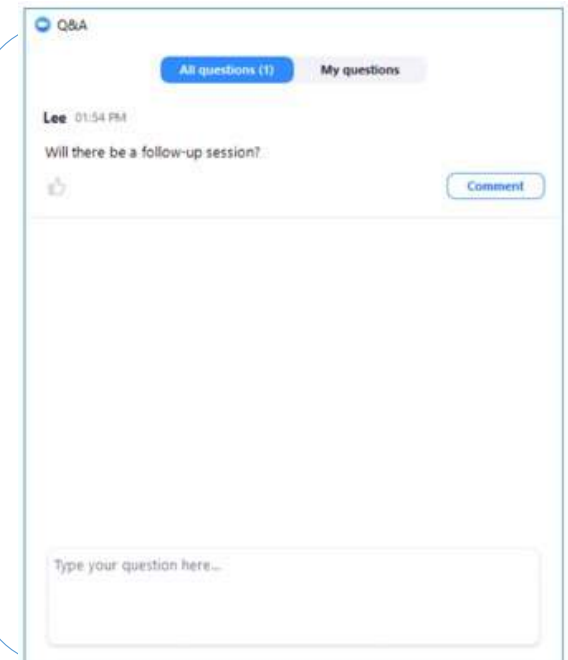
by chat: **Zoom Q&A**



project webpage:

<https://portal.ct.gov/DOTMiddlebury80-132>

Moderator will answer questions in Zoom Q&A



Note: Comment period is open through **March 19, 2024**

*Zoom Q&A is only available during live Q&A session

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PROJECT TEAM

CT Department of Transportation

Derick M. Lessard, P.E. – Principal Engineer – derick.lessard@ct.gov

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H&H, LLC, Consulting Designer

Steve Hom, P.E. – Project Manager – shom@hardestyhanover.com

Brian Kinsley, P.E. – Project Engineer – bkinsley@hardestyhanover.com

VN, Inc. Traffic Engineer

Sam Martha – Project Engineer – smartha@vnengineers.com

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PROJECT PURPOSE AND NEED

Purpose – Upgrade to a “State of Good Repair”

- Condition of Bridge Elements
 - Pin & Hanger
 - Deck
 - Superstructure



Need:

- Extend Service life
- Provide a structurally sound deck
- Provide MASH compliant railings



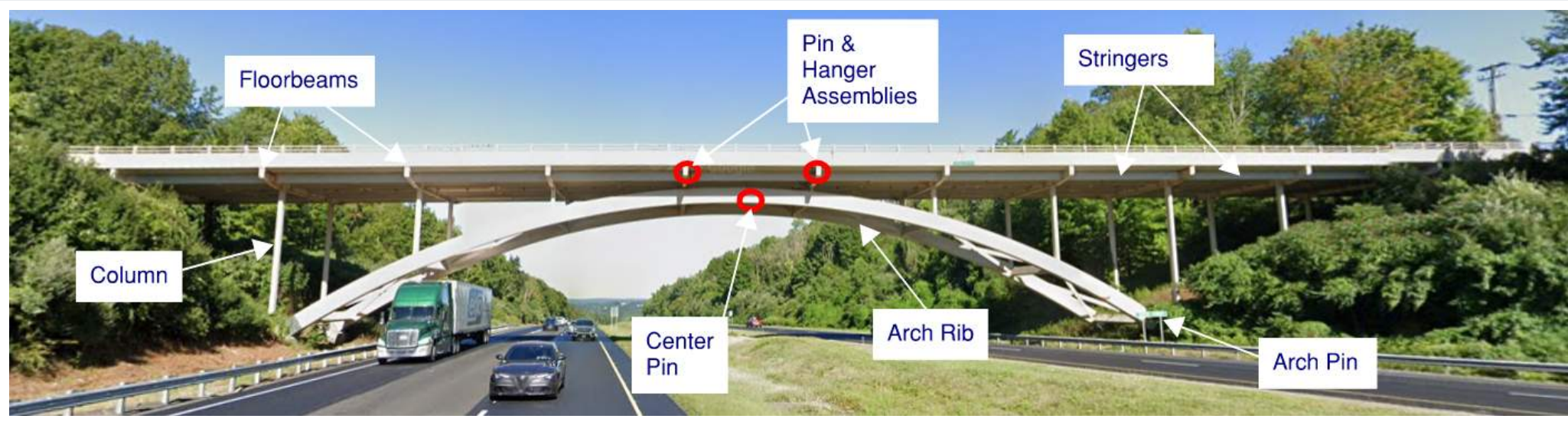
PROJECT LOCATION



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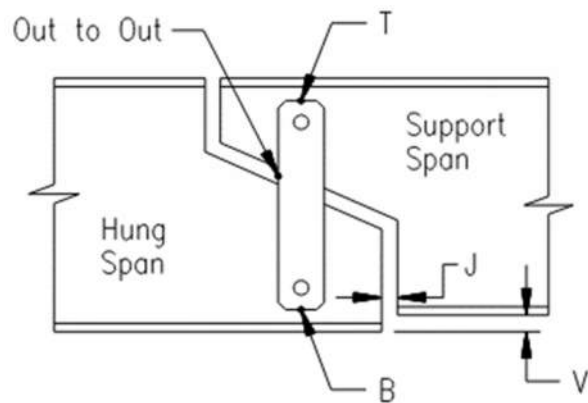


BRIDGE ELEVATION

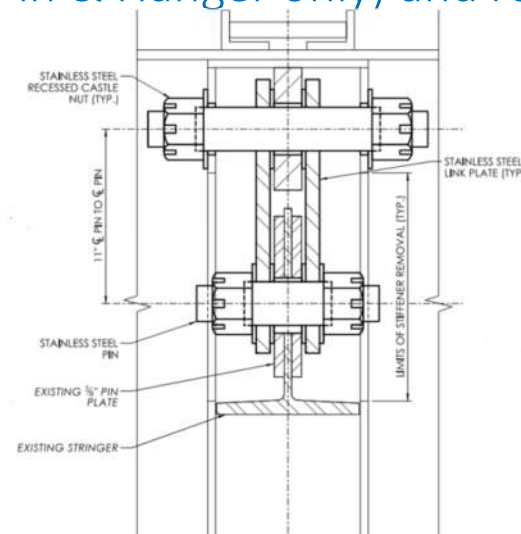


EXISTING CONDITIONS

- Pin & Hanger and Arch Pin Assemblies are considered fracture critical bridge components.
- Reason pin and hanger assemblies were implemented:
 - Reduce analysis, design and complexity of construction
 - Accommodate thermal movement (Pin & Hanger only) and rotation of the bridge superstructure.



Pin & Hanger



Section View



EXISTING CONDITIONS

Condition Rating – a judgement of a bridge component condition in comparison to its original as-built condition, used to provide an overall characterization of the general condition of the component being rated.

Bridge Condition Ratings

- 8 – Very Good
- 7 – Good
- 6 – Satisfactory
- 5 – Fair
- 4 – Poor



EXISTING CONDITIONS - DECK



Top of Deck



Underside of Deck



Safety Walk and Parapet



Joint at Pin & Hanger Assemblies



Strip Seal at Abutment

ITEM	CONDITION	RATING
Deck	Fair	5
• Overlay (None)	NA	-
• Deck – Structure	Fair	5
• Parapet*	Good	7
• Sidewalk	Good	7
• Deck Joints	Satisfactory	6
* Does not meet safety standards		

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EXISTING CONDITIONS - APPROACHES



South Approach



Transition – Approach
Guiderail to Bridge Endblock



North Approach

ITEM	CONDITION	RATING
Approach	Good	7
• Approach Slab	NA	-
• Relief Joints	NA	-
• Guide Rail*	Fair	5
• Approach Pavement	Good	7
• Embankment	Very Good	8
*Does not meet safety standards		

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EXISTING CONDITIONS - SUPERSTRUCTURE



Arch Column, Floor beam, and Stringers



Pin & Hanger Assembly and Stringer End



Floor beam Cantilever



Arch Rib

ITEM	CONDITION	RATING
Superstructure	Fair	5
• Bearing Devices	Fair	5
• Stringers	Fair	5
• Steel Arches (Girders)	Good	7
• Floor Beams	Fair	5
• Welds	Good	7
• Paint	Good	7

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EXISTING CONDITIONS - SUBSTRUCTURE



Arch Rib Abutment



Column Pedestal



Bearing condition at Abutment



ITEM	CONDITION	RATING
Substructure	Good	7
• Abutment (Stem/Backwall)	Good	7
• Wingwalls	Good	7
• Piers (Columns/Footings)	Good	7

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EXISTING CONDITIONS - UTILITIES



North Abutment – West Lines



North Abutment – East Lines



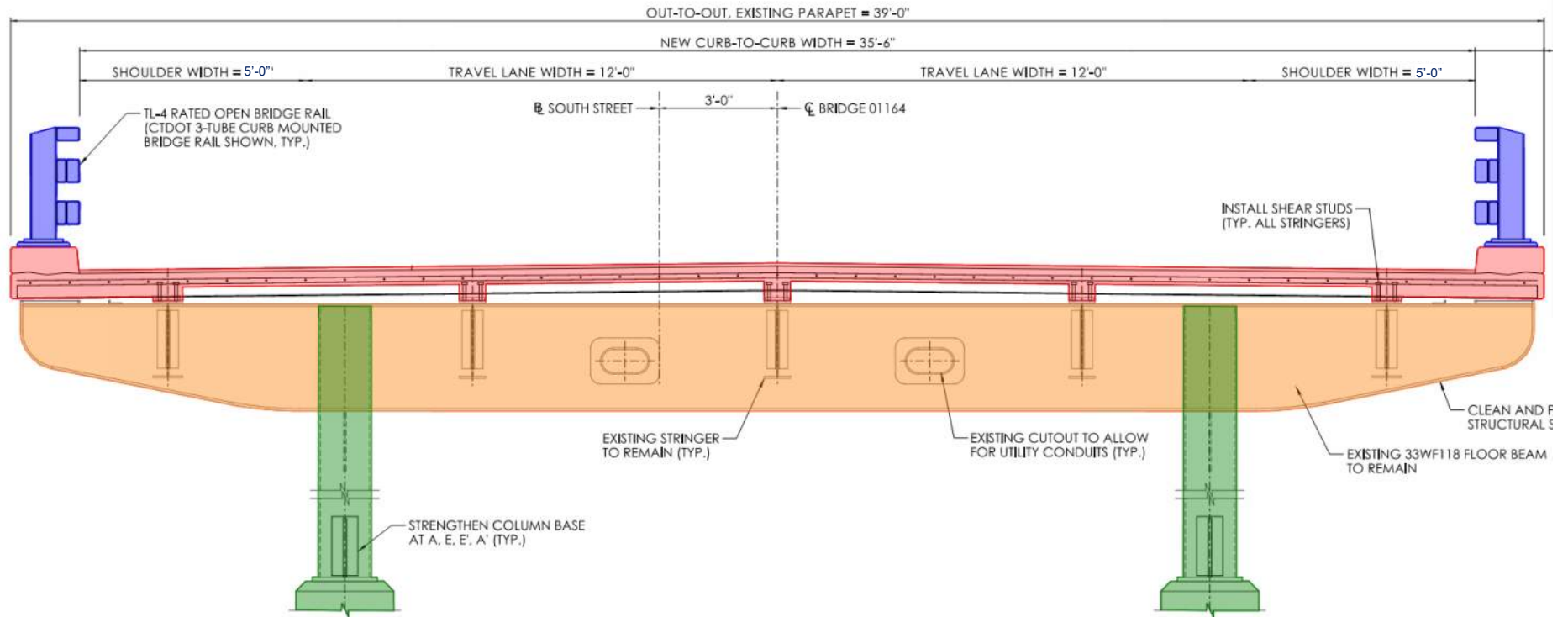
South Abutment – East Lines



South Abutment – West Lines
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PROPOSED CROSS SECTION



CROSS SECTION - TYPICAL FLOOR BEAM



SUMMARY OF WORK

- Replace deck with lightweight concrete
- Install new crash-tested bridge railing and end blocks
- Regrade approach roadways
- Replace wooden post barrier
- Replace affected driveway

- Replace pin & hanger assemblies
- Install redundant support systems below pin & hanger assemblies

- Steel strengthening
- Steel repair
- Bearing replacement

- Clean and Paint the full bridge



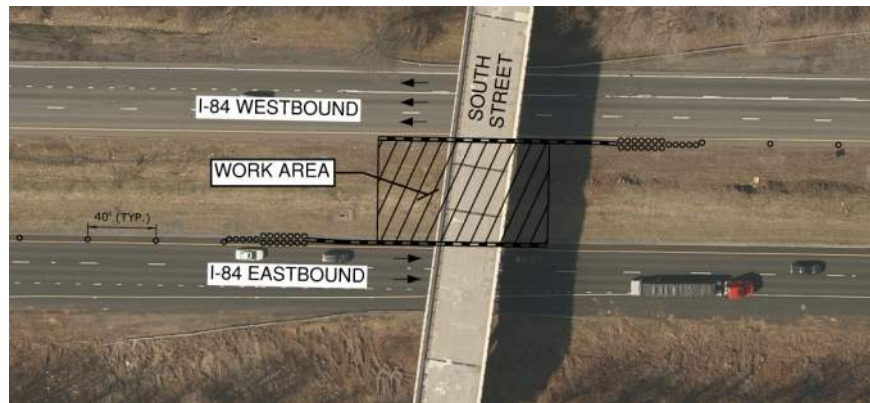
TRAFFIC MAINTENANCE

I-84

- Long-term Maintenance and Protection of Traffic (MPT) – temporary traffic barriers along shoulders
- Short-term single lane closures

South Street

- Full Bridge closure



Stage 1

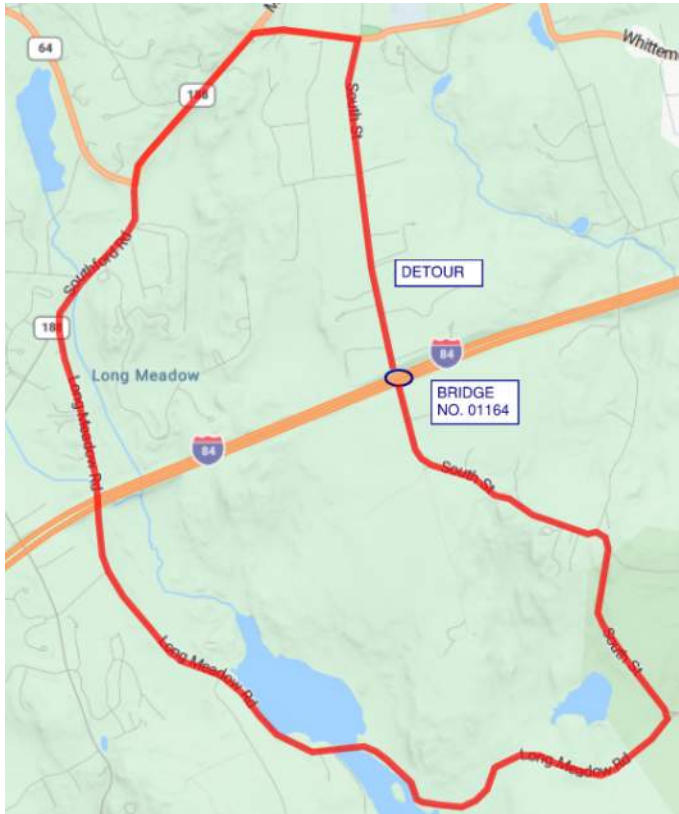


Stage 2

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TRAFFIC DETOUR PLAN



South Street Closure

- Full Bridge closure for construction duration (18 months)
 - Utilizes Long Meadow Road (6.2 miles)
- ADT
 - South Street 1700 VPD
 - Long Meadow Road 1600 VPD



PROJECT SCHEDULE AND COST

Schedule

- Preliminary Design – Current Phase
- Final Design Plans – 7/9/2025
- Design Completion Date – 8/20/2025
- Advertising for Construction – 9/17/2025
- Notice to Proceed – 1/26/2026
- Start of Construction – Spring 2026

Estimated Construction Cost

- Total Estimated Construction Cost = \$14.8 Million
- 80% Federal Funds, 20% State Funds
- No Town funds required

The Project Cost and Schedule are preliminary and are subject to change.



Question & Answer Session



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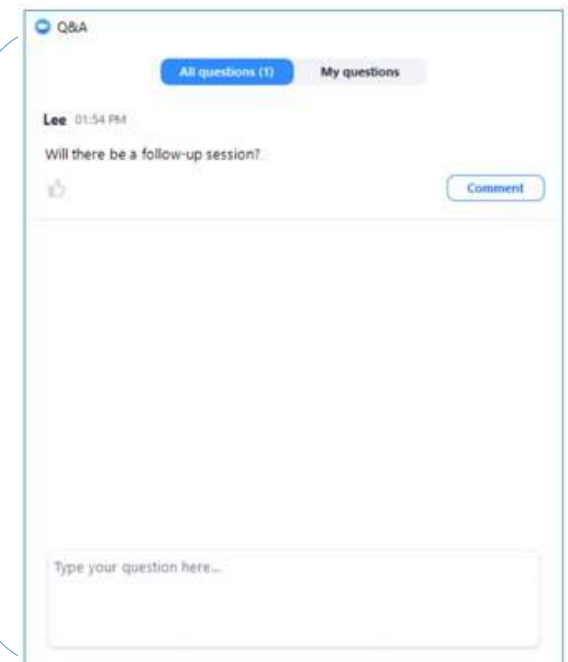
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