Unforeseen Circumstances

L-62A North
Scott Sorensen, Eddie Davidsen
Outline

• Project overview
• Timeline of issue discovery and resolution
• Partnering best practices
Project Overview

• “L-62A North”
  • Part of Ports-to-Plains Alliance
Project Overview

• “L-62A North”
  • Part of Ports-to-Plains Alliance
  • Connects “Alliance South” project w/ L-62A

Source: heartlandexpressway.com
Project Overview

• “L-62A North”
  • Part of Ports-to-Plains Alliance
  • Connects “Alliance South” project w/ L-62A
  • 2 + 2 Strategy

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Project Overview

• “L-62A North”
  • Part of Ports-to-Plains Alliance
  • Connects “Alliance South” project with L-62A
  • 2 + 2 Strategy
  • 14.48 miles

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Project Overview

• “L-62A North”
  • Part of Ports-to-Plains Alliance
  • Connects “Alliance South” project w/ L-62A
  • 2 + 2 Strategy
  • 14.48 miles
  • $32 million

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Project Overview

• “L-62A North”
  • Part of Ports-to-Plains Alliance
  • Connects “Alliance South” project w/ L-62A
  • 2 + 2 Strategy
  • 14.48 miles
  • $32 million
  • 1,059,550 CY of Excavation

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  • Part of Ports-to-Plains Alliance
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  • 14.48 miles
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• Prime – IHC Scott
  • Grading Sub – Paul Reed Construction
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  • Connects “Alliance South” project w/ L-62A
  • 2 + 2 Strategy
  • 14.48 miles
  • $32 million
  • 1,059,550 CY of Excavation
  • Prime – IHC Scott
    • Grading Sub – Paul Reed Construction
  • Notice to Proceed on March 10, 2021

Source: heartlandexpressway.com
Issue discovery and resolution timeline

Unstable material discovered
March 30th
Issue discovery and resolution timeline

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Issue discovery and resolution timeline

- Unstable material discovered: March 30th
- M&R visits the project: April 5th
Issue discovery and resolution timeline

March 30th
Unstable material discovered

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M&R visits the project
Issue discovery and resolution timeline

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Diagram:
- 12" granular (track)
- 6" granular (track)
- 1" base course
- Triaxial grid
- Geosynthetic grid
- Bottom of EL
- Remaining embankment (traditional)
Issue discovery and resolution timeline

Unstable material discovered on March 30th.

M&R visits the project on April 5th.

M&R proposed solution on April 9th.

New spec to contractor on April 15th.
Issue discovery and resolution timeline

- Unstable material discovered
  - March 30th
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  - April 15th
- Joint meeting to discuss alternatives
  - April 23rd
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Remaining embankment.

- 6" NDOT granular (previous course needs to achieve sufficient stability to pass a proof roll).
- 2" crushed rock or concrete, 18" thick.
- 4" crushed rock or concrete, 18" thick (minimum) to create a working platform that can support construction equipment such as LGP dozer, track hoe, and haul trucks.

Uniformly smooth the subgrade as much as possible and try to remove deep ruts.

Excavate to a depth as necessary to incorporate the 1st and 2nd course.

Triaxial geogrid per NDOT

Biaxial geogrid with min. ultimate strength of 1,310 lb/ft (Tensar BX 1200)

Place a 4 or 6-oz non-woven separation fabric to prevent the underlying very soft subgrade to contaminate the 4" minus crushed rock or concrete. Overlap fabric 2 feet and shingle layers in the direction of aggregate spread.
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March 30th

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New spec to contractor

April 23rd
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April 29th
Pricing from contractor
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Issue discovery and resolution timeline

- March 30th: Unstable material discovered
- April 5th: M&R visits the project
- April 9th: M&R proposed solution
- April 15th: Joint meeting to discuss alternatives
- April 23rd: Pricing from contractor
- April 29th: Revised spec sent to contractor
- May 11th: Revised spec sent to contractor

New spec to contractor

• April 15th: New spec to contractor
• April 29th: Pricing from contractor

M&R visits the project

• April 5th: M&R visits the project
• April 9th: M&R proposed solution
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<thead>
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remaining embankment

35” Granular

Triaxial Geogrid
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- Notice of intent to claim: June 4th
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- Notice of intent to claim: June 4th
- Contractor begins extra work: June 18th
Issue discovery and resolution timeline

Contractor begins extra work on June 18th.
Issue discovery and resolution timeline

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Issue discovery and resolution timeline
How to be good partners

- Communication is **KEY**
- Identify risks and rewards of stakeholders
- Avoid adversarial relationships
How to be good partners

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How to be good partners

• Communication is **KEY**
• Identify risks and rewards of stakeholders
• Avoid adversarial relationships
• Manage perceptions
• Look for “win-win” opportunities
• Employ deadlocking countermeasures
• Implement solution
Thank you