Update on I-59/20 Bridge Replacement Project in Birmingham’s Central Business District

Alabama Department of Transportation
February 9, 2017

Phase A

Phase 1

Phase 2

Phase 3
PROPOSED

SOUTH VIEW

LIGHTING CONCEPT


I-59/20 Update
60th Transportation Conference
February 9, 2017
PHASE 2 – SCHEDULE

• Contract Let - January 22nd, 2016
• Notice to Proceed – February 19th, 2016
• Substantial Completion – August 31st, 2018

PHASE 2 – INCENTIVES

• If completed on or before August 31st, 2018 – Contractor will receive a $10 Million Dollar Bonus
• If not completed by August 31st, 2018 – Contractor has a disincentive of $200,000 Per Day

PHASE 2 – ROADWAY/LANE CLOSURE FEES
PHASE 2 – REQUIREMENTS
QUICK FACTS
• 21 Bridges Totaling 3.73 Miles (182 bents)
• 29,238 LF of Steel Plate Girders (5.54 miles)
• 59,546 LF of Pre-stressed Girders (11.28 miles)
• 182,767 SF of Retaining Walls
• 121,397 LF of H Piles

PHASE 2 – REQUIREMENTS
QUICK FACTS
• 82,984 Tons of Plant Mix
• 202,405 CY of Unclassified Excavation
• 21,375 LF of Underground Utilities
• 300,000 Average Daily Traffic (I-59/20 160K ADT, I-65 140K ADT)

PHASE 2 – PROJECT DETAILS
QUICK FACTS
• Total Contract Amount - $208,611,848.60
• Construction Contract Awarded to Granite Construction – Watsonville, CA – Average Daily Workforce is 220 men (including subcontractors)
• CE&I Consultant – Volkert, Inc.

INNOVATION
• Submittal Exchange

INNOVATION
• Google Earth

INNOVATION
• Electronic Design Documents
INNOVATION
• CAMMS

INNOVATION
• Project Documentation from Weekly Meetings

INNOVATION
• Project Documentation based on Schedule Evaluation

UNIQUE PRODUCTS
• Dust Suppressant (PennzSuppress)

UNIQUE PRODUCTS
• Engineered Soil Media (Synthetic Topsoil)
UNIQUE PRODUCTS
• Cost Comparison of Proganics vs. Contracted Topsoil
  - Contracted Topsoil - $3.06 per SY
  - Proganics - $1.81 per SY

CHALLENGES
• Utility Coordination
CHALLENGES
• Utility Coordination

CHALLENGES
• Utility Coordination

CHALLENGES
• Traffic
FOUNDATION INSTALLATION

H-PILES

H-PILES

H-PILES
RETAINING WALLS (SOLDIER PILE)

• Sculpted Shotcrete Pattern Facing for Soldier Pile Wall

RETAINING WALLS (SOIL NAIL)

EARTHWORK
GIRDER INSTALLATION

PROGRESS

• 7,200 LF (1.36 miles) of Pre-stressed Girders out of 59,546 LF of Pre-stressed Girders (11.28 miles) in this project have been placed to date.
• 15 spans out of 165 spans in this project have been placed to date.
• Contractor is scheduled to install first steel girders tonight.
• Contractor is scheduled to pour the first concrete bridge deck next week.

Questions?