NEW MEANS & METHODS
for
BRIDGE OVERHANG CONSTRUCTION

aka Stay-in-Place Precast Fascia Form
Overview

- General Components
- Panel Types
- Panel Lengths
- Soffit Widths
- Reinforcement
- Hardware

October 2, 2018
General Components

- Soffit
- Primary Tie
- Secondary Tie
- Upper Stud Inserts
- Lower Stud Inserts
- Front Face
- Notch

October 2, 2018
Panel Types – Cross Section
Panel Types – Cross Sections (con’t)
Soffit Width Considerations:

- 0” at wing walls or moment slabs.
- Standard Widths < 2'-0”
- > 2'-0”
  - Diagonal tie deck penetration
  - Strut introduction?
  - Top flange torsional analysis
- 4’-0” max.
- Varied
Forms & Reinforcement
Panel Length

- Standard Length = 5'-0"
  - NYSDOT Standards for control joint spacing.
  - Contract control joint spacing.
- Max. Length (suggested) = 8'-0"
  - Considerations
    - Crack Control
      - Shrinkage
    - Curvature
      - Vectorially
      - Varied Radii
    - Camber
Hardware Variations

Stiff Strut-Tie

Flexible Strut-Tie

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Diagram showing hardware variations for Stiff and Flexible Strut-Ties with technical specifications and notes.
Tie Connection Detail - Embeds

- Note: Lubricate Thread at end of tie rod and install plastic sleeve around rod in deck pour for tie rod removal above sleeve nut.
Frontage Road Structure (FRS) – Span 9
Panel Shake-Out
Bridge L29

TYPICAL FLANGE TO WEB
WELD DETAIL

N.T.S.
Erection

- Layout
- Landing
- Connecting
- Adjusting
- Joint Treatment
- Studs
- Tie Removal
Alternate Secondary Tie
Deck Reinforcement
PICK BRACKET (Preliminary)
SLIP FORM
Stay-in-Place Precast Fascia Form

THE PORT AUTHORITY OF NY & NJ

LaGUARDIA AIRPORT

CENTRAL TERMINAL BUILDING REPLACEMENT PROJECT

Q & A