<table>
<thead>
<tr>
<th>CELL / MODEL NAME</th>
<th>DESCRIPTION</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDI-SB-1</td>
<td>Superstructure Details; Integral; Steel beam; Single span</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SDI-SB-2</td>
<td>Superstructure Details; Integral; Steel beam; Multi-span</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SDI-SB-TXR4-2</td>
<td>Superstructure Details; Integral; Steel beam; Texas rail TL-4; multi-span</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SI-SB-1-0</td>
<td>Superstructure; Integral; Steel beam; Single span; No skew</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SI-SB-1-L-Greater than 30 degrees</td>
<td>Superstructure; Integral; Steel beam; Single span; Left skew; Greater than 30 degrees</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SI-SB-1-L-Less than or equal to 30 degrees</td>
<td>Superstructure; Integral; Steel beam; Single span; Left skew; Less than or equal to 30 degrees</td>
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</tr>
<tr>
<td>SI-SB-1-R-Greater than 30 degrees</td>
<td>Superstructure; Integral; Steel beam; Single span; Right skew; Greater than 30 degrees</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SI-SB-1-R-Less than or equal to 30 degrees</td>
<td>Superstructure; Integral; Steel beam; Single span; Right skew; Less than or equal to 30 degrees</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>SI-SB-2-0</td>
<td>Superstructure; Integral; Steel beam; Multi-span; No skew</td>
<td>11/22/2016</td>
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<td>SI-SB-2-L-Greater than 30 degrees</td>
<td>Superstructure; Integral; Steel beam; Multi-span; Left skew; Greater than 30 degrees</td>
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</tbody>
</table>
**SDI-SB-1**

**SECTION THRU PARAPET**

- **MINIMUM BAR LAP**
  - #5 bar = 5'-7"
  - #4 bar = 2'-8"

- **Aluminum Joint**
  - Full height

- **Fill Slot**
  - Full length

- **Drip Notch**
  - Each End

- **Clamping Device**
  - Galvanized according to AASHTO M 232. Cost of clamping device included with Concrete Superstructure.

- **Aluminum Floor Drains**
  - Top portion coated to minimize reaction with wet concrete.
  - Exterior surfaces painted according to Article 506 with the finish stress of 30,000 psi minimum.
  - Coated as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP9 prior to painting.
  - Fiberglass pipes shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 psi minimum.

- **Superstructure Details**
  - Reinf. Plastic Rebar = #8 bar = 5'-11"
  - Steel stud bolts = ~ 1" holes in web
  - ~ 1" Steel stud bolts
  - 6" Pipe Clamp
  - 6" D.O. Aluminum Tube
  - 6" O.D. Fiberglass Pipe

- **Bill of Material**
  - SUPERSTRUCTURE DETAILS
  - STRUCTURE NO.

**Notes:**
- The缨 Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete.
- The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade wet concrete. Cost included with Concrete Superstructure.
- The "" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete.
- The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish stress of 30,000 psi minimum. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP9 prior to painting.
- The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade wet concrete. Cost included with Reinforcement Bars, Epoxy Coated.
Notes:
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Article 506 with the finish coat as specified. The exterior surfaces of the floor drains shall be painted according to Society of Protective Coatings Article 506 with the finish coat as specified. The exterior surfaces of the floor drains shall be painted according to Society of Protective Coatings Article 506 with the finish coat as specified.

Galvanized clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tension stress of 30,000 p.s.i. minimum.

Galvanized clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.
PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"

out to out deck

Face to face parapets

CROSS SECTION
(Looking )

Notes:
See Sheet of for superstructure details
and Bill of materials.
Bars indicated thus #5 x 3'-6" etc. indicates
20 lines of bars with 3 lengths per line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

SI-SB-1-0
11-22-2016
MINIMUM BAR LAP
(#5 bar = 2'-6'"
-
Order #6(E) and #5(E) bars full length.
Cut to fit skew and use remainder of bars in opposite end.
-Cut back leg of #6(E) bar to fit.

PLAN
Cut to out deck

CROSS SECTION
(Looking )

Notes:
- See sheet for superstructure details
and Bill of Materials.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

* #5 a(E) bars at 12'' cts., each end
* #5 b(E) bars at 11'' cts.
* #5 a(E) bars at 12'' cts., each end
* #5 d(E) bars at 12'' cts., each end
* #5 b(E) bars at 12'' cts., each end
* #5 d(E) bars at 12'' cts., each end
* #5 a(E) bars at 12'' cts., each end
* #5 d(E) bars at 12'' cts., each end
MINIMUM BAR LAP

5 bar = 3'-6"

PLAN

OUT TO OUT DECK

FACE TO FACE PARAPETS

CROSS SECTION

(looking )
MINIMUM BAR LAP
#5 bar = 3'-6"
* Order #5 a(E) bars full length.
Cut to fit skew and use remainder of bars in opposite end.

PLAN

MINIMUM BAR LAP
#5 bar = 3'-6"
* Order #5 a(E) bars full length.
Cut to fit skew and use remainder of bars in opposite end.

CROSS SECTION
(Looking )
**MINIMUM BAR LAP**

- #5 bar = 3'-6"
- Order #6(1) & #6(2) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

**PLAN**

- Cut back leg of d(E) bar to fit
- #5 a(E) bars at 11'' cts.
- #5 a(E) bars at top of web toward end and to end deck

---

**CROSS SECTION**

- (Looking )
- #5 b(E) bars at 11'' cts.
- #5 b(E) bars at top of web
- #5 b(E) bars at 11'' cts.
- #5 b(E) bars at top of web

---

**Notes:**

- See sheet of for superstructure details and Bill of Materials.
- Bars indicated thus 20 x #5 etc. indicates 20 lines of bars with 3 lengths per line.
out to out deck
1'-7''
face to face parapets
spaces at
CROSS SECTION
NEAR PIER
(looking )

TOTAL DROP =
1'-7''
d (E)
d (E)
1
b (E)
b (E)
1
a (E)
a (E)
2
2
2
-10 ''

PARTIAL PLAN
out to out deck
Face to face parapets

MINIMUM BAR LAP
#5 bar = 3'-6''

PARTIAL PLAN
out to out deck
Face to face parapets

Notes:
- See sheet of for superstructure details and Bill of Materials.
- Bars indicated thus 20 x #5 etc. indicates 20 lines of bars with 3 lengths per line.
- #5 bar = 3'-6''
- " Aluminum sheet

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SI-SB-2-0
11-22-2016
1'-7'' face to face parapets

MINIMUM BAR LAP
#5 bar = 3'-6''
- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

PARTIAL PLAN
out to out deck

CROSS SECTION
(looking )

SI-SB-2-L(>30°) 11-22-2016

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

FILE NAME
= USER NAME

PLOT SCALE
PLOT DATE =

CHECKED
DRAWN =

CHECKED
REVISED

REVISED

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS
F.A.
RTE.
SECTION
COUNTY
CONTRACT NO.

TOTAL
SHEETS
SHEET

Notes:
- Keep sheet of for superstructure details and Bill of Materials.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- Order #5 a(E) and #5 a(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 a(E) and #5 a(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 a(E) and #5 a(E) bars full length.
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- Order #5 d(E) bars full length.
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- Order #5 d(E) bars full length.
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- Order #5 a(E) and #5 a(E) bars full length.
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- Order #5 d(E) bars full length.
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- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 a(E) and #5 a(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 a(E) and #5 a(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 a(E) and #5 a(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 d(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.
- Order #5 a(E) and #5 a(E) bars full length.
PARTIAL PLAN

Top of slab
3 x -#5 b (E) bars equally spaced
top of slab
2-#6 b (E) bars at 12" cts.
top of slab

* -#5 a (E) bars at 12" cts., each end

-#6 bars at 12" cts., each end
-#5 v (E) bars at 12" cts., each end

Notes:

- Cut back leg of d (E) bar to fit
- Bend d (E) bar to fit
- #5 bar = 3'-6"
- MINIMUM BAR LAP
- #5 bar
- 20 lines of bars with 3 lengths per line.
- Bars indicated thus 20 x 3-#5 etc. indicates
- Bill of Material.
- See sheet... of... for superstructure details
- Cut to fit skew and use remainder
- Order a (E) & a (E) bars full length.

PARTIAL PLAN

Top of slab
3 x -#5 b (E) bars equally spaced
top of slab
2-#6 b (E) bars at 12" cts.
top of slab

* -#5 a (E) bars at 12" cts., each end

-#6 bars at 12" cts., each end
-#5 v (E) bars at 12" cts., each end

Notes:

- Cut back leg of d (E) bar to fit
- Bend d (E) bar to fit
- #5 bar = 3'-6"
- MINIMUM BAR LAP
- #5 bar
- 20 lines of bars with 3 lengths per line.
- Bars indicated thus 20 x 3-#5 etc. indicates
- Bill of Material.
- See sheet... of... for superstructure details
- Cut to fit skew and use remainder
- Order a (E) & a (E) bars full length.
**MINIMUM BAR LAP**

- #5 bar = 3'-6''
  - Order #6 & #12 bars full length. Cut to fit skew and use remainder of bars in opposite end.

**PARTIAL PLAN**

- See sheet of for superstructure details and Bill of Materials. Bars indicated thus 20 x #5 etc. Indicates 20 lines of bars with 3 lengths per line.

**CROSS SECTION**

- *#5 bar = 3'-6''
- Top of slab over pier -#6 b(E) bars at 12'' cts.
- #5 bars at 12'' cts., each end.
- #5 bars at top of deck.
- Cut back leg of d(E) bar to fit.
- *#5 a(E) bars at 12'' cts., bottom.
- *#5 a(E) bars at 12'' cts., top.
- Joint in parapet.
- "" Aluminum sheet.

**Notes:**
- For superstructure details and Bill of Materials.
- Bars indicated thus 20 x #5 etc. Indicates 20 lines of bars with 3 lengths per line.
MINIMUM BAR LAP
#5 bar = 3'-6"
1. Order a(E) & a(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
2. Bend d(E) bars at cts. top of slab.
3. Cut back leg of d(E) bar to fit.
4. #5 d(E) bars at 11" cts.
5. #5 b(E) bars at cts. top of slab.
6. #6 b(E) bars at |12" cts., each end.
7. 2-#6 b(E) bars at top of slab.
8. 3 x -#5 b(E) bars spaced as shown.
9. -#5 a(E) bars at |12" cts., top.
10. -#5 a(E) bars at |12" cts., bottom.

PARTIAL PLAN

Notes:
1. See sheet of for superstructure details and Bill of Materials.
2. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
3. #5 bar = 3'-6"
4. *Two bars in opposite end.
5. Cut to fit skew and use remainder of bars in opposite end.