<table>
<thead>
<tr>
<th>CELL / MODEL NAME</th>
<th>DESCRIPTION</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIA-SB2448-0</td>
<td>Diaphragm Integral Abutment; Steel beam 24-48 inch beam depth; No skew</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>DIA-SB2448-L</td>
<td>Diaphragm Integral Abutment; Steel beam 24-48 inch beam depth; Left skew</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>DIA-SB2448-R</td>
<td>Diaphragm Integral Abutments; Steel beam 24-48 inch beam depth; Right skew</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>DIA-SB-Greater than 48-0</td>
<td>Diaphragm Integral Abutment; Steel beam Greater than 48 inch beam depth; No skew</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>DIA-SB-Greater than 48-L</td>
<td>Diaphragm Integral Abutment; Steel beam Greater than 48 inch beam depth; Left skew</td>
<td>11/22/2016</td>
</tr>
<tr>
<td>DIA-SB-Greater than 48-R</td>
<td>Diaphragm Integral Abutment; Steel beam Greater than 48 inch beam depth; Right skew</td>
<td>11/22/2016</td>
</tr>
</tbody>
</table>
**DIAPHRAGM AT ABUTMENT**

- **Abut.**
- **Brg. & Beam**
- **m (E)**
- **13** (Showing bottom flange of beam)

**Abutment**

- **Back of Anchor Bolts**
- **Neoprene leveling pad**
- **Steel Rocker with elastomeric**

- **Roadway**
- **Approach slab**
- **Control point**
- **1'-3''**

**Approach slab seat**

- **Control point**
- **1'-3''**

**SECTION A-A**

- **Construction joint**
- **Recommended by supplier.**
- **PJF (per Article 1051.09 of the Standard Specifications)**
- **Bonded to**
- **Concrete**
- **Superstructure**
- **On sheet**

**For details of bars s (E), s (E) and v (E) see sheet of.**

**Concrete in diaphragm is included with Concrete Superstructure on sheet of.**

**Reinforcement bars in diaphragm are billed with superstructure on sheet of.**

**Notes:**
- **Concrete in diaphragm is included with Concrete Superstructure on sheet of.**
- **For details of bars s (E), s (E) and v (E) see sheet of.**
- **The approach slab seat shall have a constant slope determined from the control points shown.**
- **Bolts shall be braced for stability during erection and remain braced until deck is poured and cured.**

- **Each End**
- **Steel Rocker with elastomeric**
- **Leveling pad**

**SECTION B-B**

- **E Roadway**
- **1'' (E) bars**
- **2'' Chamfer**
- **Varies typ.**
- **2'' cl.**
- **Concrete**

**Approach slab**

- **Construction joint**
- **Approach slab seat**
- **Control point**

**PLAN AT ABUTMENT**

- **(Showing before forms of sheet)**
- **E Anchor Bolts**
- **Back of Abut.**
- **Steel Rocker**
- **Elastomeric neoprene**
- **Leveling pad**
- **2'' chamfer**

**DIAPHRAGM DETAILS**

- **STATE OF ILLINOIS**
- **DEPARTMENT OF TRANSPORTATION**
- **STRUCTURE NO.**
- **DIA-SB2448-0**
- **10-23-2016**
DIAPHRAGM AT ABUTMENT

SECTION B-B

DIAPHRAGM DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NAME

PLOT SCALE

PLOT DATE

CHECKED

DRAWN

DESIGNED

REVISED

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS

F.A. RTE. SECTION

FED. AID PROJECT

COUNTY

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DIA-SB2448-L

11-23-2016

Each End

-#5 s(E) bars

10

bwn. bms.

| 12'' cts., typ.

headed bars at

-#5 s(E)

Each End

NOTE:

Concrete in diaphragm is included with Concrete Superstructure on sheet of .

For details of bars s(E), s(E) and v(E) see sheet of .

Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet of .

Concrete in diaphragm is included with Concrete Superstructure on sheet of .

For details of bars s(E), s(E) and v(E) see sheet of .

The s(E) and s(E) bars shall be placed parallel to the beams.

Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

For bearing details see sheet of .

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Concrete in diaphragm is included with Concrete Superstructure:

For details of bars s(E), s(E) and v(E) see sheet of .

Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

For bearing details see sheet of .

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Concrete in diaphragm is included with Concrete Superstructure on sheet of .

For details of bars s(E), s(E) and v(E) see sheet of .

Spacing for these bars shall be at right angles to the beams.

The approach slab seat shall have a constant slope determined from the control points shown.

For bearing details see sheet of .

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
Concrete in diaphragm is included with Concrete Superstructure on sheet 100 of . For details of bars s(E) or v(E) and m(E) see sheet 110 of . The s(E) and v(E) bars shall be placed parallel to the beams. Spacing for these bars shall be as right angles to the beams. The approach slab shall have a constant slope determined from the control points shown.

Reinforcement bars in diaphragm are billed with superstructure on sheet 100 of . Concrete in diaphragm is included with Concrete Superstructure on sheet 100 of .

For details of bars s(E) or v(E) and m(E) see sheet 110 of . The s(E) and v(E) bars shall be placed parallel to the beams. Spacing for these bars shall be as right angles to the beams. The approach slab shall have a constant slope determined from the control points shown.

The beams shall be braced for stability during erection and remain braced until deck is poured and cured.
DIAPHRAGM AT ABUTMENT

DIAPHRAGM AT ABUTMENT

SECTION B-B

SECTION A-A

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet of .
Concrete in diaphragm is included with Concrete Superstructure on sheet of .
For details of bars s(E), v(E) and m(E) see sheet of .
The approach slab seat shall have a constant slope determined from the control points shown.
For bearing details see sheet of .
Bolts shall be braced for stability during erection and remain braced until deck is poured and cured.
Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet of 
Concrete in diaphragm is included with Concrete Superstructure on sheet of 
For details of bars m(E), s(E) and v(E) see sheet of .
The s(E) and v(E) bars shall be placed parallel to the beams. 
Spacing for these bars shall be at right angles to the beams. 
The approach slab seat shall have a constant slope 
The approach slab seat shall have a constant slope determined from 
Spacing for these bars shall be at right angles to the beams. 
For details of bars s(E), s(E) and v(E) see sheet of .
Concrete in diaphragm is included with Concrete Superstructure on sheet of .
1'-0''
2'' Chamfer
Steel Rocker
 exclusions on sheet of.

DIAPHRAGM DETAILS 

STATE OF ILLINOIS 
DEPARTMENT OF TRANSPORTATION 

DIA-SB48-L 
11-23-2016 

1'-2'' sez. 
2'' Chamfer
Steel Rocker
exclusions on sheet of.

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet of 
Concrete in diaphragm is included with Concrete Superstructure on sheet of 
For details of bars m(E), s(E) and v(E) see sheet of .
The s(E) and v(E) bars shall be placed parallel to the beams. 
Spacing for these bars shall be at right angles to the beams. 
The approach slab seat shall have a constant slope determined from 
the control points shown.
For bearing details see sheet of .
Bearing shall be braced for stability during erection and remain braced until deck is poured and cured.
**DIAGRAM AT ABUTMENT**

**SECTION B-B**

**DIAPHRAGM AT ABUTMENT**

**SECTION A-A**

**PLAN AT ABUTMENT**

Notes:
- Reinforcement bars in diaphragm are billed with superstructure on sheet of reinforcements.
- Concrete in diaphragm is included with Concrete Superstructure on sheet of reinforcements.
- For details of bars s(E), s(E), and m(E), see sheet of reinforcements.
- The m(E) and s(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
- The approach slab and steel have a constant slope determined from the control points shown.
- For bearing details, see sheet of reinforcements.
- Beams shall be braced for stability during erection and remain braced until deck is poured and cured.