<table>
<thead>
<tr>
<th>CELL / MODEL NAME</th>
<th>DESCRIPTION</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDS-11-M-F-0</td>
<td>11'' bm super multi span F shape, no skew</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-M-F-D</td>
<td>11'' bm super multi span F shape details</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-M-F-L</td>
<td>11'' bm super multi span F shape, ahead left</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-M-F-R</td>
<td>11'' bm super multi span F shape, ahead right</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-S-F-0</td>
<td>11'' bm super simple span F shape, no skew</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-S-F-D</td>
<td>11'' bm super simple span F shape details</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-S-F-L</td>
<td>11'' bm super simple span F shape, ahead left</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-11-S-F-R</td>
<td>11'' bm super simple span F shape, ahead right</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-M-T1-0</td>
<td>11'' bm super multi span 6'' curb &amp; T-1 Rail, no skew</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-M-T1-D</td>
<td>11'' bm super multi span 6'' curb &amp; T-1 Rail details</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-M-T1-L</td>
<td>11'' bm super multi span 6'' curb &amp; T-1 Rail, ahead left</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-M-T1-R</td>
<td>11'' bm super multi span 6'' curb &amp; T-1 Rail, ahead right</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-S-T1-0</td>
<td>11'' bm super simple span 6'' curb &amp; T-1 Rail, no skew</td>
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</tr>
<tr>
<td>PDS-HMA-11-S-T1-D</td>
<td>11'' bm super simple span 6'' curb &amp; T-1 Rail details</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-S-T1-L</td>
<td>11'' bm super simple span 6'' curb &amp; T-1 Rail, ahead left</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-11-S-T1-R</td>
<td>11'' bm super simple span 6'' curb &amp; T-1 Rail, ahead right</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-M-R34-0</td>
<td>17'' thru 42'' bm super multi span R34 rail (HMA), no skew</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-M-R34-L</td>
<td>17'' thru 42'' bm super multi span R34 rail (HMA), ahead left</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-M-R34-R</td>
<td>17'' thru 42'' bm super multi span R34 rail (HMA), ahead right</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-S-R34-0</td>
<td>17'' thru 42'' bm super simple span R34 rail (HMA), no skew</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-S-R34-L</td>
<td>17'' thru 42'' bm super simple span R34 rail (HMA), ahead left</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-HMA-S-R34-R</td>
<td>17'' thru 42'' bm super simple span R34 rail (HMA), ahead right</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-M-F-0</td>
<td>17'' thru 42'' bm super multi span F shape, no skew</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>PDS-M-F-D</td>
<td>17'' thru 42'' bm super multi span F shape details</td>
<td>2/17/2017</td>
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<tr>
<td>PDS-M-F-L</td>
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<td>2/17/2017</td>
</tr>
<tr>
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<td>17'' thru 42'' bm super multi span R34 rail, no skew</td>
<td>2/17/2017</td>
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<td>PDS-M-R34-D</td>
<td>17'' thru 42'' bm super multi span R34 rail details</td>
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<tr>
<td>PDS-M-R34-L</td>
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<td>17'' thru 42'' bm super simple span F shape, ahead left</td>
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<td>CELL / MODEL NAME</td>
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<tr>
<td>-------------------</td>
<td>--------------------------------------------------</td>
<td>-----------</td>
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<tr>
<td>PDS-S-F-R</td>
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<td>17” thru 42” bm super simple span R34 rail, ahead right</td>
<td>2/17/2017</td>
</tr>
</tbody>
</table>
- #4 a(E) bars at 12" cts.
- 2-#4 a(E) bars at 17" cts.
- #4 a(E) bars at 17" cts.

**MINIMUM BAR LAP**

**SECTION A-A**

All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet 1 for fabric bearing pad details.

**SECTION B-B**

Notes:

- Concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet 1 for fabric bearing pad details.

**Notes:**

- See sheet 1 for Superstructure Details and Bill of Material.
- Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

**CROSS SECTION**

(Looking at)

- 13" x Precast Prestressed Concrete Deck Beams

- Slope ° per foot

- 1" x 6" PJF" Formed joint with Bridge Relief Joint Sealer (See Special Provisions) without the backer rod (full width)
The cost of the drain tube assemblies and everything necessary
AASHTO M111 or M232, (as applicable).

Note: 1'-0" = bent Ø bolts.

Section View A-A

INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

PARAPET JOINT DETAILS

Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
The cost of the drain tube assemblies and everything necessary
for their installation is included with Concrete Superstructure.

SECTION THRU PARAPET

Non-staining gray one component non-sag elastomeric
Sun grade polyurethane sealant meeting the requirements
of ASTM C-920, Type S, Grade NS, Class 23. Use 7
with a 1/8" backer rod.

1/8" Prefabricated Self-Expanding Cork Joint Filler
good for use with concrete. Cost included with Concrete Superstructure.
Notes:
- See sheet of for Superstructure Details and Bill of Material.
- Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
- Spacing of #4 and #2 bars shall be measured along the of structure.

SECTION A-A
(Dimensions are at Rt. E's)
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet of for fabric bearing pad details.
- #4 bars at 12" cts.
- Spaced between #2 bars)
- 1" x 4" FH joints shall be filled with non-shrink grout.
- 1" joint with Special Provisions) without the backer rod (full width)
- Bridge Relief Joint Sealer (See Special Provisions) without the backer rod (full width)
- 1" x 6" SJF (full width)
- 2 each beam)
- Dowel rods in 1/2" holes drilled in cap (2 each beam)}
Notes:
- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet 1 of 2 for Superstructure Details

- 3 x -#4 b(E) bars equally spaced at ± 12" cts.

2 '-10" x 2-#4 a(E) bars at 12" cts. (Spaced between a(E) bars)
- 11" x 6" PJF bearing pad

Bridge Relief Joint Sealer (See Special Provisions) without the backer rod (full width)

Aluminum sheeted construction
Joints in base of parapet

Concrete Wearing Surface
Surface Concrete Wearing

Bearing pad, Fabric bearing pad

Fabric

3 '-0" x 2'-7" Dowel rods in 1/2" holes drilled in cap (2 each beam)

SECTION A-A
(Dimensions are at Rt. ±s)

Notes:

- 1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Concrete Wearing Surface

SECTION B-B
(Dimensions are at Rt. ±s)

Notes:
- See sheet 2 of 2 for fabric bearing pad details

- #4 bar = 2'-2"
- #5 d(E) bars at 11" cts.
- -#4 d(E) bars at 12" cts.
- x 2 #4 d(E) bars at 12" cts.
- (Spaced between a(E) bars)

- 11" x - Precast Prestressed Concrete Deck Beams

Minimum Bar Lap
#4 bar = 2'-2"

PDS-11-M-F-R 2-17-2017
-#5 d(E) bars at 17" cts.

-#4 a(E) bars at 12" cts.

-#4 b(E) bars at 17" cts.

-#4 a(E) bars at 17" cts.

1'-7" x 2-#4 a(E) bars at 12" cts.

x 2-#4 a(E) bars at 17" cts.

3 x -#4 b(E) bars

end to end deck

PLAN

out to out deck

face to face parapets

CROSS SECTION

(looking)

MINIMUM BAR LAP

#4 bar = 2'-2"

Notes:

- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet of for fabric bearing pad details.
**Parapet Joint Details**

- **BAR d(E)**
  - Place at 1/2 of beam depth.
  - Loop Ferrule inserts for 3/4" Ø bolts.
  - Use #8 bars at 8" cts. in fascia beam. D(E) bar included in cost of beam.

- **BAR d1(E)**
  - Place #8 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.
  - #5 D(E) bars at 11" cts. See Section thru Parapet.

**MINIMUM BAR LAP**

- **(Parapet)**
  - #4 bar = 2'-4"
  - #8 bar = 5'-11"

**SECTION THRU PARAPET**

- **Ø Loop Ferrule inserts for 3/4" Ø bolts.**
- Place at 1/2 of beam depth.
- **Place #8 (E) bars at 8" cts. in fascia beam. D(E) bar included in cost of beam.**

**INSIDE ELEVATION OF PARAPET**

- **INSIDE ELEVATION OF PARAPET**
  - 3" Ø bolts.
  - 2 1/2" Ø x 5" bolts with 2 1/2" Ø backer rod.
  - Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T 16 preformed self-expanding cork joint filler according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.

**ANTICIPATED CONCRETE WEARING SURFACE PROFILE**

- Slope 1:10 to drain.

**BILL OF MATERIAL**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Material</th>
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<td></td>
<td>Reinforcement Bars</td>
<td>Cu. Yd.</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Concrete Superstructure</td>
<td>Cu. Yd.</td>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Concrete Wearing Surface</td>
<td>Sq. ft.</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

Bars indicated this 1 x 4 etc. indicates 1 line of bars with lengths per line.
Notes:
- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet for fabric bearing pad details.

**PLAN**

- 1'-0" x 2'-0" Dowel rods in T/Y of Notes drilled in cap (2 each beam)
- 1'-0" x 290 p/s
- 3'-0" Troll width

**CROSS SECTION**

(Looking )

- 3'-0" Troll width
- 1'-0" x 2'-0" Dowel rods in T/Y of Notes drilled in cap (2 each beam)
- Concrete Wearing Surface
- Fabric Bearing pad
- 1'-0" x 2'-0" Dowel rods in T/Y of Notes drilled in cap (2 each beam)
- Concrete Wearing Surface
- Fabric Bearing pad

**MINIMUM BAR LAP**

- #4 bar = 2'-2" (full width)
- #4 bar = 2'-2" (full width)
- #4 bar = 2'-2" (full width)
- #4 bar = 2'-2" (full width)

**NOTES:**
- See sheet for Superstructure Details and Bill of Material.
- Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
- Spacing of #6(E) and #4(E) bars shall be measured along the height of structure.
Notes:

All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet of for fabric bearing pad details.

Surface Concrete Wearing

3 x -#4 b(E) bars equally spaced at ±12" cts.

-#5 d1(E) bars at 11" cts.

x 2-#4 a(E) bars at 12" cts.

x 2-#4 a(E) bars at 12" cts.

(±1/2" cl.

#4 bar = 2'-2"

4 1"

1'-3"

1'-0"

Surface backer rod (full width)

Provisions) without the sealer (See Special Provisions) and Bridge Relief Joint 4 1" x 2 1" P.J.F. drilled in cap (2 each beam) 4 1"

1"

2-

1"

2-

2'-10"

4 1"

1" Ø x 2'-0" Dowel rods in 1/9" holes driven in cap (2 each bar)

Total drop =

Concrete Wearing Surface

\( \text{Slope } \) per foot

\( \text{& Rdwy.} \)

\( \text{Total drop } = \)

\( \text{Concrete Wearing Surface} \)

- 11" x 2-1/2" Precast Prestressed Concrete Deck Beams

Notes:

See sheet  of for Superstructure Details and Bill of Material. Bars indicated thus 20 x 2 #4 etc. indicates 20 lines of bars with 2 lengths per line. Spacing of a(E) and a1(E) bars shall be measured along the E of structure.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STRUCTURE NO.

DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STRUCTURE NO.

DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STRUCTURE NO.
Notes:
- Spaces at 1" cts. = 1'-0" out to out deck.
- Fab. bearing pad details. See sheet of for Superstructure Details and Bill of Material.
- "1" ft. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.
- 4 3/4" x 4 1/2" P.J.F. drilled in cap (2 each beam)
- 1" Ø x 2'-0" Dowel rods in 1½" Ø holes drilled in cap (2 each beam)
- Bridge Relief Joint Sealer (See Special Provisions) (full width)
STRUCTURE NO.  
SUPERSTRUCTURE DETAILS

**INSIDE ELEVATION OF CURB**

- Drain tubes: 1" x 3/8" slotted holes in beam for 5/16" bolts.
- Drain tubes shall be grouted according to HMA Wearing Surface.

**MINIMUM BAR LAP**

- #6 bar - 3'-7" (See Detail A)

**SECTION THRU CURB**

- Curbs shall be poured in the field.
- #5 D(E) bars at 12" cts. in fascia beam for railing curb. Omit D(E) bars in curb transition. D(E) bar included in cost of beam.

**ANTICIPATED HMA WEARING SURFACE PROFILE**

(For information only)

**SUPERSTRUCTURE BILL OF MATERIAL**

<table>
<thead>
<tr>
<th>Bar No.</th>
<th>Size</th>
<th>Length</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>#6</td>
<td>#5</td>
<td>3'-7&quot;</td>
<td></td>
</tr>
</tbody>
</table>

- Reinforcement bars: 5/16" bolts
- Concrete: Superstructure
- Curing: 
- HMA Wearing Surface: Tons

Bars indicated thus 1 x -#5 etc. indicates 1 line of bars with lengths per line.
Notes:
See sheet of for Superstructure Details and Bill of Material.
SECTION A-A
See sheet of for Details
Fabric bearing pad details.

PLAN

end to end deck

out to out deck

face to face curb

CROSS SECTION

Notes:
See sheet of for Superstructure Details
and Bill of Material.

Total drop =

- 11" x 6" Precast Prestressed Concrete Deck Beams

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS
SUPERSTRUCTURE
STRUCTURE NO.

2-17-2017

6" - 11" x 11" Precast Prestressed Concrete Deck Beams
INSIDE ELEVATION OF CURB

MINIMUM BAR LAP

Bar #5 2'-3'

Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M332, (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)

SECTION THRU CURB

Curbs shall be poured in the field.

SUPERSTRUCTURE

BILL OF MATERIAL

<table>
<thead>
<tr>
<th>Bar No.</th>
<th>Size</th>
<th>Length</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>#5 5/8</td>
<td>5'-2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Reinforcement Bars
Scope Covered
Concrete
Superstructure
HMA Wearing Surface

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PDS-HMA-11-S-T1-D 2/17/2017
end to end deck

PLAN

out to out deck

Face to Face Turn

2'-0" x 6" Precast Prestressed Concrete Deck Beams

1'-0"

Notes:
See sheet of for Superstructure Details and Bill of Material.

SECTION A-A
(Dimensions are at Rt. Lt.)
See sheet of for fabric bearing pad details.

- 11" x " Precast Prestressed Concrete Deck Beams

CROSS SECTION
(plan view)
PLAN

out to out deck

face to face curb

CROSS SECTION

(Roading)

Notes:
See sheet of for Superstructure Details
and Bill of Material.

MINIMUM BAR LAP

PDS-HMA-11-S-T1-R 2-17-2017
PLAN

out to out deck

SECTION A-A
See sheet of for fabric bearing pad details.

SECTION B-B
"1" ft. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

BILL OF MATERIAL

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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</thead>
<tbody>
<tr>
<td>HMA Wearing Surface</td>
<td>Tons</td>
<td>0</td>
</tr>
</tbody>
</table>

CROSS SECTION

ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)

Notes:
See sheet of for Superstructure Details and Bill of Material.
**SECTION A-A**
(Dimensions are at Rt. Cs)
See sheet of for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. Cs)
*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.*

**BILL OF MATERIAL**

<table>
<thead>
<tr>
<th>ITEM</th>
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<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMA Wearing Surface</td>
<td>Tons</td>
<td>0</td>
</tr>
</tbody>
</table>

**ANTICIPATED HMA WEARING SURFACE PROFILE**
(For information only)

**NOTES:**
See sheet of for Superstructure Details and Bill of Material.

**FILE NAME**
PDS-HMA-M-R34-L 2-17-2017
20 lines of bars with 2 lengths per line. Bars indicated thus 20 x 2-#4 etc. indicates and Bill of Material.

Notes:
Sea sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

#4 bar = 2'-7" - Spaces at '-" etc. = '-"
Spaces: 1" cts. = 1"  

Bars indicated thus: 20 x 2-#4 etc. indicates  

Spacing of #4 bars shall be measured along the  

% of structure  

Precast Prestressed Concrete Deck Beams  

Grouted shear key Tyg.  

Top of beam  

BILL OF MATERIAL  

ITEM | UNIT | QUANTITY  
--- | --- | ---  
HMA wearing surface | Tons | 2  

MINIMUM BAR LAP  

#4 bar = 2'-7"  

CROSS SECTION  

(Looking )  

ANTICIPATED HMA WEARING SURFACE PROFILE  

(Far Information only)  

PDS-HMA-S-R34-L  2-17-2017  

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  

SUPERSTRUCTURE STRUCTURE NO.  

CONTRACT NO.  
COUNTY  
DISTRICT  
REG. ENG.  
DATE  
CHECKED  
DRAWN  
DESIGNED  
REVISED  
DEPARTMENT OF TRANSPORTATION  
STATE OF ILLINOIS  
F.A.  
RTE.  
SECTION  
COUNTY  
CONTRACT NO.  
TOTAL SHEETS  
SHEET NO.  

See sheet of for fabric bearing pad details.
Bill post spacing

Spaces at "" centers = "" end to end deck

out to out deck

PLAN

HMA wearing surface

Grouted shear key.

Precast Prestressed Concrete Deck Beams

- "" x 2'-7"" Precast Prestressed Concrete Deck Beams

BILL OF MATERIAL

ITEM

UNIT

QUANTITY

Tons

0

MINIMUM BAR LAP

#4 bar = 2'-7"

ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STRUCTURE NO.

FILE NAME = USER NAME

PLOT SCALE = DRAWN = CHECKED = DESIGNED = REVISED =

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS

F.A.

RTE.

SECTION

COUNTY

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

ILLINOIS FED. AID PROJECT

NOTES:

See sheet [off for Superstructure Details and Bill of Material.

Bars indicated thus 20 x 2-#4 etc. indicates

20 lines of bars with 2 lengths per line.

Spacing of #4 bars shall be measured along the

% of structure.

Total drop =

ALG.

SECTION

COUNT

CONTRACT NO.

TOTAL

SHEETS

SHEET NO.
20 lines of bars with 2 lengths per line. Bars indicated thus 20 x 2-#4 etc. indicates
and Bill of Material. See sheet of for Superstructure Details
Notes:
- face to face parapets
- 1'-7"
- 1'-7"
- 1'-2"
- 1'-2"
- Abut.
- Back of
- Pier
- end to end deck

SECTION A-A
Notes:
All concrete wearing surfaces shall
be placed prior to casting a backwall
and/or approach slab.
See sheet of for fabric bearing pad details.

SECTION B-B
"3" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet of for Superstructure Details
and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates
20 lines of bars with 2 lengths per line.
Parapet joint

- 3/8" @ 6" o.c. bars at 11" cts.
- See Section thru Parapet

Parapet joint

- 1 x 3/8" @ 6" bar. Front Face
- 1 x 3/8" @ 6" bar. Back Face

MINIMUM BAR LAP

<table>
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<th>Bar</th>
<th>Lap in</th>
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<th>Lap in</th>
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<tr>
<td>#6</td>
<td>5'-11&quot;</td>
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INSIDE ELEVATION OF PARAPET

VIEW A-A

Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, as applicable.
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

SECTION THRU PARAPET

- Ø Loop Ferrule Inserts for 1/8" Ø bolts.
- Place at 1/2 of beam depth.
- Place #4 (85) bars at 9" cts. in fascia beam. (3E5) bars included in cost of beam.

Concretes, W, & Aluminum sheeting

- ASTM C-250 or C-675, Type II, Grade NS, Class 25.
- Use #4 @ 12" cts. with 1/4" backer rod.

Non-staining gray one component non-sag kerosene grade polyurethane sealant meeting the requirements of ASTM C-950, Type 3, Grade NS, Class 25. Use 1 line of bars with lengths per line.

Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of the Std. Spec.
Cost included with Concrete Superstructure.

Concrete Wearing Surface

- Epoxy Coated
- Concrete Superstructure
- Concrete Wearing Surf, S.

SUPERSTRUCTURE DETAILS

BILL OF MATERIAL

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<tr>
<th>Bar #</th>
<th>#5</th>
<th>#4</th>
<th>#3</th>
<th>#2</th>
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PDS-M-F-D 2-17-2017
**Notes:**

All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet 2 for fabric bearing pad details.

- $\#4$ bar = 2'-2"  
- $\#5$ d(E) bars at 37" cts.
- 3 x $\#4$ (E) bars
- $\#4$ d(E) bars at 17" cts.
- 3 x $\#4$ (E) bars
- 2 x $\#4$ (E) bars at 17" cts.

**SECTION A-A**

(Dimensions are at Rt. E's)

Notes:

- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet 2 for fabric bearing pad details.

**SECTION B-B**

(Dimensions are at Rt. E's)

Notes:

- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet 2 for fabric bearing pad details.

**Plan**

- Out to out deck
- Face to face parapets
- Plan

**Cross Section**

(looking)

- Slope " per foot
- \( \frac{x}{5} \) " Precast Prestressed Concrete Deck Beams

**Minimum Bar Lap**

- \#4 bar = 2'-2"
SECTION A-A
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.

**CROSS SECTION**
(Looking )

**PLAN**

**SECTION A-A**
(Dimensions are at Rt. ±)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet for fabric bearing pad details.

**SECTION B-B**
(Dimensions are at Rt. ±)

"±" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 sizes of bars with 2 lengths per line.
Spacing of #1(E) and #1(E) bars shall be measured along the ± of structure.
SECTION A-A
Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet of for fabric bearing pad details.

SECTION B-B
*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
See sheet of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc, indicates 20 ties of bars with 2 lengths per line.
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.

Bar D(E)
- Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.

Bar a(E)

ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

Top of beam

PDS-M-R34-D  2-17-2017
STRUCTURE NO. SUPERSTRUCTURE

Abut. Back of

out to out deck

(Looking )

b(E) D(E)

Total drop =

Surface

Concrete Wearing

out to out deck

a(E)

key. Typ. Grouted shear

Slop e  " per foot

Slop e  " per foot

x 2-#4 a(E) bars at 12" cts.

Pier

end to end deck

end to end deck

PLAN

2-17-2017

PDS-M-R34-L

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STRUCTURE NO.

MINIMUM BAR LAP

#4 bar = 2'-2"

Notes:

All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet  for fabric bearing pad details.

Notes:

See sheet  for Superstructure Details and Bill of Material.

Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

Spacing of #4 bars shall be measured along the length of structure.

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

- " Per foot

Concrete Wearing Surface

x 2-#4 a(E) bars at 12" cts.

Pier

(x)

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**SECTION A-A**

(Dimensions are at Re. Ls)

Notes:
- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet of for fabric bearing pad details.

**SECTION B-B**

(Dimensions are at Re. Ls)

Notes:
- "x" dimension may vary to accommodate tolerance in beam lengths.

---

**Notes:**
- See sheet of for Superstructure Details and Bill of Material.
- Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
- Spacing of #4 bars shall be measured along the edge of structure.
Note: All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab. See sheet o for fabric bearing pad details.

Cross Section

- #4 bar = 2'-2" (Spaced between a(E) bars)
- -#4 a1(E) bars at 12" cts.
- -#4 a(E) bars at 12" cts.
- -#4 a(E) bars at 17" cts.
- (Spaced between a(E) bars)

Precast Prestressed Concrete Deck Beams

Notes:
- See sheet o for Superstructure Details
- Bars indicated thus 20 x 2-#4 etc. indicates 20 sets of bars with 2 lengths per line.
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

BAR #1(E)

BAR #2(E)

SECTION THRU PARAPET

-#5 d(E) bars at 11" cts.
-#4 #8 e (E) bar. Back face

SECTION B-B

ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

PARAPET JOINT DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION
FED. AID PROJECT

MINIMUM BAR LAP

BAR #2(E)

SECTION B-B

ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

PARAPET JOINT DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
-3 #4 (E) bars at 12' cts.
-5 x 2-#4 (E) bars at 12' cts.
-#4 (E) bars at 12' cts.
(Spaced between #6 bars)
-5 x #4 (E) bars

PLAN
out to out deck

FACE TO FACE PARAPETS

CROSS SECTION
(Looking )

Notes:
- See sheet of for Superstructure Details
- and Bill of Material
- Bars indicated thus 20 x 2-#4 etc. indicates
- 20 rows of bars with 2 deg. per line
- Spacing of (E) and (E) bars shall be measured
- along the structure.

MINIMUM BAR LAP
#4 bar = 2'-2"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

F.A.
RTE.
SECTION
COUNTY
CONTRACT NO.

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS

FILE NAME =

PLOT DATE =

CHECKED =
DRAWN =
CHECKED =
DESIGNED =
REVISED =
REVISED =
REVISED =
REVISED =
PLOT SCALE =

#4 bar = 2'-2"

-Cross piers
-Precast Prestressed Concrete Deck Beams

Total drop =
Concrete Wearing Surface

Slope = per foot

Slope = per foot

Slope = per foot

Slope = per foot

1'-7"
1'-2"
1'-7"
1'-7"
0"
-#4 a(E) bars at 12" cts.
-#4 d(E) bars at 12" cts.
-#5 d1(E) bars at 11" cts.
(Spaced between a(E) bars)
-#4 a1(E) bars at 12" cts.
(±4" c.l.)

Notes:

- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet 7 for fabric bearing pad details.
Notes:
- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet of for fabric bearing pad details. 

Concrete Wearing

Precast Prestressed Concrete Deck Beams

Notes:
- See sheet of for Superstructure Details and Bill of Material.
- Bars indicated thus 20 x 2-#4 etc. indicates 20 wires of bars with 2 lengths per line.
**Notes:**

Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.

---

**SUPERSTRUCTURE BILL OF MATERIAL**

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<th>Bar</th>
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</tbody>
</table>

Bars indicated thus 1 line of bars with lengths per line.

---

**SECTION THRU FASCIA BEAM**

* Place 2-#4 (E1) bars in beam at each post location as shown. (E1) bar included in cost of beam.
Notes:
- Slope " per foot
- Concrete Wearing Surface
- Minimum Bar Lap

Notes: (Looking)
- See sheet of for Superstructure Details
- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
- See sheet of for fabric bearing pad details.

PLAN

MINIMUM BAR LAP

CROSS SECTION

SECTION A-A

Notes:
- Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
- Spacing of #4 bars shall be measured along the % of structure.
SECTION A-A
(Dimensions are at RT. Lts)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet  of for fabric bearing pad details.

PLAN

out to out deck

end to end deck

CROSS SECTION

(Looking )

MINIMUM BAR LAP

#4 bar = 2'-2"

Notes:
See sheet  of for Superstructure Details and Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line. Spacing of #4 bars shall be measured along the € of structure.

4-3-4-3"

Rail post spacing

Back of Abut.

x 2-#6 m/EI bars at 12" cts.

x 4-#6 m/EI bars, unequal spaced at 12" cts.

Total drop =

Surface

Concrete Wearing

out to out deck

Notes:

Spacing of a(E) bars shall be measured along the 20 lines of bars with 2 lengths per line.

#4 bar = 2'-2"

Precast Prestressed Concrete Deck Beams

Slope " per foot

Slope " per foot

Concrete Wearing Surface

Rdwy.

(\± " cl.

2-17-2017

PDS-S-R34-R