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<th>CELL</th>
<th>DESCRIPTION</th>
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<tr>
<td>P00001</td>
<td>Bridge approach slab elevation</td>
<td>full scale objects</td>
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<td>P00002</td>
<td>Integral abutment drainage elevation</td>
<td>full scale objects</td>
</tr>
<tr>
<td>P00003</td>
<td>Steel plate beam guardrail section</td>
<td>full scale objects</td>
</tr>
<tr>
<td>P00004</td>
<td>Steel sheet piling</td>
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<td>P00005</td>
<td>Type 5 traffic barrier terminal elevation</td>
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</tr>
<tr>
<td>P00006</td>
<td>Type 5 traffic barrier terminal plan, Rt.</td>
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<tr>
<td>P00007</td>
<td>Type 6 traffic barrier terminal elevation</td>
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<td>Type 6 traffic barrier terminal plan, Rt.</td>
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<tr>
<td>P00020</td>
<td>Curve data</td>
<td>information</td>
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<tr>
<td>P00021</td>
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<tr>
<td>P00022</td>
<td>Design stresses</td>
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<td>P00023</td>
<td>Highway classification</td>
<td>information</td>
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<td>P00024</td>
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<tr>
<td>P00025</td>
<td>Seismic Data</td>
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<td>P00030</td>
<td>Design scour elevation table (for TS &amp; L and GP &amp; E)</td>
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<td>P00031</td>
<td>Location sketch</td>
<td>information</td>
</tr>
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<td>P00032</td>
<td>Waterway information table, bridge and culvert</td>
<td>information</td>
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<td>P00033</td>
<td>Waterway information table, bridge and overflow</td>
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<td>P00034</td>
<td>Waterway information table, bridge, large</td>
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<td>P00040</td>
<td>Section thru integral abutment for PPC beams</td>
<td>abutment sections</td>
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<td>Section thru integral abutment for steel beams or girders</td>
<td>abutment sections</td>
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<td>Section thru pile supported stub abutment for PPC beams</td>
<td>abutment sections</td>
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<td>P00043</td>
<td>Section thru pile supported stub abutment for steel beams or girders</td>
<td>abutment sections</td>
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<td>Section thru semi-integral abutment for PPC beams</td>
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<td>P00045</td>
<td>Section thru semi-integral abutment for steel beams or girders</td>
<td>abutment sections</td>
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<td>Riprap for section thru abutment</td>
<td>slope treatment for abut sect.</td>
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<td>Slopewall for section thru abutments</td>
<td>slope treatment for abut sect.</td>
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<td>Section Thru Filled Vaulted Abutment</td>
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<td>Toe stone riprap treatment for stream crossings</td>
<td>slope treatment</td>
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<td>P00051</td>
<td>Flank stone riprap treatment for stream crossings</td>
<td>slope treatment</td>
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<td>Section thru bituminous coated aggregate slopewall</td>
<td>slope treatment</td>
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<td>P00053</td>
<td>Section at edge of bituminous coated aggregate slopewall</td>
<td>slope treatment</td>
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<td>P00054</td>
<td>Section thru concrete slopewall (from stub abutment)</td>
<td>slope treatment</td>
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<tr>
<td>P00055</td>
<td>Section thru concrete slopewall (from integral abutment)</td>
<td>slope treatment</td>
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<td>P00056</td>
<td>Section at edge of concrete slopewall</td>
<td>slope treatment</td>
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<td>Railing end treatment elevation for type 5 terminal and aluminum railing</td>
<td>special rail treatment</td>
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<tr>
<td>CELL</td>
<td>DESCRIPTION</td>
<td>GROUP</td>
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<td>Railing end treatment elevation for type 6 terminal and aluminum railing</td>
<td>special rail treatment</td>
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<td>P00062</td>
<td>Railing end treatment section for type 5 terminal and aluminum railing</td>
<td>special rail treatment</td>
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<tr>
<td>P00063</td>
<td>Railing end treatment section for type 6 terminal</td>
<td>special rail treatment</td>
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<td>P00064</td>
<td>Railing end treatment elevation for type 6 terminal and bridge fence or parapet railing</td>
<td>special rail treatment</td>
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<td>P00070</td>
<td>MSE wall with CIP coping section</td>
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<td>P00071</td>
<td>Soldier pile wall with concrete facing section</td>
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<td>P00077</td>
<td>Multiple round column grade separation pier sketch (3)</td>
<td>piers</td>
</tr>
<tr>
<td>P00078</td>
<td>Multiple round column grade separation pier sketch (4)</td>
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<td>P00079</td>
<td>Multiple round column grade separation pier sketch (5)</td>
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<tr>
<td>P00080</td>
<td>Solid, spread footing pier sketch</td>
<td>piers</td>
</tr>
<tr>
<td>P00081</td>
<td>Solid, battered, spread footing pier sketch</td>
<td>piers</td>
</tr>
<tr>
<td>P00082</td>
<td>Solid, with cap and spread footing pier sketch</td>
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<tr>
<td>P00083</td>
<td>Single hammerhead pier sketch</td>
<td>piers</td>
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<tr>
<td>P00084</td>
<td>Double hammerhead pier sketch</td>
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<td>P00085</td>
<td>2 column pier sketch</td>
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<td>3 column pier sketch</td>
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<td>4 column pier sketch</td>
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<td>5 column trapezoidal pier with spread footing sketch</td>
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<td>P00094</td>
<td>2 bay railroad pier with round columns sketch</td>
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<td>3 bay railroad pier with round columns sketch</td>
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<td>P00096</td>
<td>4 bay railroad pier with round columns, modified, sketch</td>
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<td>5 bay railroad pier with round columns sketch</td>
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<td>P00098</td>
<td>Encased pile bent pier sketch</td>
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<td>Individually encased pile bent pier sketch</td>
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<td>P0110</td>
<td>Safety walk and parapet removal details</td>
<td>retrofit</td>
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<td>P0111</td>
<td>Parapet retrofit detail</td>
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Cell Name: P00001
Descrip: Bridge approach slab elevation
Cell Name: P00002
Descrip: Integral abutment drainage elevation
Cell Name: P00003
Descrip: Steel plate beam guardrail section
Cell Name: P00004
Descrip: Steel sheet piling
Cell Name: P00005
Descrip: Type 5 traffic barrier terminal elevation
Cell Name: P00006
Descrip: Type 5 traffic barrier terminal plan, Rt
Cell Name: P00007
Descrip: Type 6 traffic barrier terminal elevation
Cell Name: P00008
Descrip: Type 6 traffic barrier terminal plan, Rt.
CURVE DATA

P.I. Sta. =
Δ =
D =
R =
T =
L =
E =
e =
T.R. =
S.E. Run =
P.C. Sta. =
P.T. Sta. =
DESIGN SPECIFICATIONS

FIELD UNITS

DESIGN STRESSES

f'_c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
HIGHWAY CLASSIFICATION

Rte. - Rte.

Functional Class:
ADT: (20 ); (20 )
ADTT: (20 ); (20 )
DHV:

Design Speed: m.p.h.
Posted Speed: m.p.h.
-Way Traffic

Directional Distribution:
Cell Name: P00024
Descrip: Loading

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.
SEISMIC DATA

Seismic Performance Zone (SPZ) = D1
Design Spectral Acceleration at 1.0 sec. (SD1) =
Design Spectral Acceleration at 0.2 sec. (SDS) =
Soil Site Class = DS
## DESIGN SCOUR ELEVATION TABLE

<table>
<thead>
<tr>
<th>Event / Limit State</th>
<th>Design Scour Elevations (ft.)</th>
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<tbody>
<tr>
<td>Q100</td>
<td>Pier -</td>
</tr>
<tr>
<td>Q200</td>
<td>Pier -</td>
</tr>
<tr>
<td>Design</td>
<td>-. Abut.</td>
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<td>Check</td>
<td>Item 113</td>
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Cell Name: P00031
Descrip: Location sketch
### WATERWAY INFORMATION

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<tr>
<td><strong>Base</strong></td>
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<tr>
<td><strong>Overtopping</strong></td>
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Drainage Area = - Low Grade Elev. = - @ Sta. -
## WATERWAY INFORMATION

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<th>Drainage Area</th>
<th>Low Grade Elev.</th>
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<td>Main Channel</td>
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<td>Overflow</td>
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<td>Maximum or Over-topping</td>
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### WATERWAY INFORMATION

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<tr>
<td>Drainage Area = -</td>
<td>Low Grade Elev. = - @ Sta. = -</td>
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<tr>
<td>Base</td>
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<tr>
<td>Overtopping</td>
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</tbody>
</table>
Cell Name: P00040
Descrip: Section thru integral abutment for PPC beams

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. © Rt. L’s)
Cell Name: P00041
Descrip: Section thru integral abutment for steel beams or girders

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. © Rt. L’s)
Cell Name: P00042
Descrip: Section thru pile supported stub abutment for PPC beams
Cell Name: P00043
Descrip: Section thru pile supported stub abutment for steel beams or girders
Cell Name: P00044
Descrip: Section thru semi-integral abutment for PPC beams

**SECTION THRU SEMI-INTEGRAL ABUTMENT**
(Horiz. dim. © Rt. L's)
Cell Name: P00045
Descrip: Section thru semi-integral abutment for steel beams or girders
Cell Name: P00046
Descrip: Riprap for section thru abutment
Cell Name: P00047
Descrip: Slope wall for section thru abutments

1:2 (V:H) @ Rt. L's
Cell Name: P00048
Descrip: Section Thru Filled Vaulted Abutment

SECTION THRU FILLED VAULTED ABUTMENT
(Horz. dim. @ Rt. L’s)
Cell Name: P00050
Descrip: Toe stone riprap treatment for stream crossings
Cell Name: P00051
Descrip: Flank stone riprap treatment for stream crossings

SECTION B-B
Cell Name: P00052
Descrip: Section thru bituminous coated aggregate slopewall

**SECTION THRU BITUMINOUS COATED AGGREGATE SLOPEWALL**
Cell Name: P00053
Descrip: Section at edge of bituminous coated aggregate slopewall
Cell Name: P00054
Descrip: Section thru concrete slopewall (from stub abutment)

**SECTION THRU**

**CONCRETE SLOPEWALL**
Cell Name: P00055
Descrip: Section thru concrete slopewall (from integral abutment)

SECTION THRU
CONCRETE SLOPEWALL
Cell Name: P00056
Descrip: Section at edge of concrete slopewall

SECTION A-A
Cell Name: P00060
Descrip: Railing end treatment elevation for type 5 terminal and aluminum railing

Traffic Barrier Terminal, Type 5

Top of sidewalk

Top of deck

ELEVATION
Cell Name: P00061
Descrip: Railing end treatment elevation for type 6 terminal and aluminum railing
Cell Name: P00062
Descrip: Railing end treatment section for type 5 terminal and aluminum railing

SECTION A-A
Cell Name: P00063
Descrip: Railing end treatment section for type 6 terminal

Thrie beam end shoe for Traffic Barrier Terminal, Type 6

SECTION A - A
Cell Name: P00064
Descrip: Railing end treatment elevation for type 6 terminal and bridge fence or parapet railing
Cell Name: P00070
Descrip: MSE wall with CIP coping section

SECTION THRU
MSE WALL
Cell Name: P00071
Descrip: Soldier pile wall with concrete facing section

SECTION THRU
SOLDIER PILE WALL
Cell Name: P00077
Descrip: Multiple round column grade separation pier sketch (3)

PIER SKETCH

No. & spacing as req’d. by design

Elev.
Cell Name: P00078
Descrip: Multiple round column grade separation pier sketch (4)
Cell Name: P00079
Descrip: Multiple round column grade separation pier sketch (5)
Cell Name: P00080
Descrip: Solid, spread footing pier sketch

PIER SKETCH
Cell Name: P00081
Descrip: Solid, battered, spread footing pier sketch
Cell Name: P00082
Descrip: Solid, with cap and spread footing pier sketch

PIER SKETCH

Elev.

4'-0" min.

No. & spacing as req’d. by design

PIER SKETCH
Cell Name: P00083
Descrip: Single hammerhead pier sketch

PIER SKETCH
Cell Name: P00084
Descrip: Double hammerhead pier sketch
Cell Name: P00085
Descrip: 2 column pier sketch
Cell Name: P00086
Descrip: 3 column pier sketch

PIER SKETCH

Slope
±1/12

Elev.

No. & spacing as req’d. by design

PIER SKETCH
Cell Name: P00087
Descrip: 4 column pier sketch
Cell Name: P00088
Descrip: 2 column trapezoidal pier sketch

PIER SKETCH

Elev.

No. & spacing as req'd. by design
PIER SKETCH

Descrip: Solid hammerhead pier sketch

Cell Name: P00089
Cell Name: P00090
Descrip: 2 column trapezoidal pier with spread footing sketch
Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

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Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.

Descrip: 3 column trapezoidal pier with spread footing sketch

Cell Name: P00091
Descrip: 3 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req'd. by design

Elev.
Cell Name: P00092
Descrip: 4 column trapezoidal pier with spread footing sketch
Cell Name: P00093
Descrip: 5 column trapezoidal pier with spread footing sketch

PIER SKETCH

No. & spacing as req’d. by design
Cell Name: P00094
Descrip: 2 bay railroad pier with round columns sketch

PIER SKETCH

Elev.
Top of Rail

6'-0"

4'-0"

No. & spacing
as req’d. by
design
Cell Name: P00095
Descrip: 3 bay railroad pier with round columns sketch
Cell Name: P00096
Descrip: 4 bay railroad pier with round columns, modified, sketch
Cell Name: P00097
Descrip: 5 bay railroad pier with round columns sketch

PIER SKETCH
Cell Name: P00098
Descrip: Encased pile bent pier sketch

PIER SKETCH

Elev.

No. & spacing as req’d. by design

2' - 6”
Cell Name: P00099
Descrip: Pile bent pier sketch

PIER SKETCH

Elev.

No. & spacing as req’d. by design
Cell Name: P00100
Descrip: Individually encased pile bent pier sketch

PIER SKETCH

Elev.

No. & spacing as req’d. by design
SAFETY WALK & PARAPET
REMOVAL DETAILS
(Existing Reinforcement shown in accordance with original plans)

Parapet & Safety Walk Removal Sequence

1. Remove parapet above safety walk.
2. Saw cut safety walk as shown & remove to rough removal line.
3. Complete removal to finish line with light hammer (45# or less) or waterjet only.

Notes to Designer
1. Bill retrofit as “Concrete Parapet & Safety Walk Removal and Retrofit.” in Linear Feet.
2. Concrete removal for drain replacement should be billed as Concrete Removal and Class X Concrete.
2'' Dense concrete overlay after 1/4'' deck scarification.

Anchor new reinforcing into existing concrete

(bonded joint)