## ESTIMATED QUANTITIES - SUBSTRUCTURE ONLY

<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
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<tbody>
<tr>
<td>Concrete Class A4</td>
<td>CY</td>
<td>323.6 F</td>
</tr>
<tr>
<td>Reinforcing Rebar</td>
<td>LF</td>
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<tr>
<td>Corrugated Metal Sheeting</td>
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<td>Prestressed Concrete Slabs</td>
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<td>Structural Steel Plates</td>
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<td>Deck Drainage System - B6XX</td>
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<tr>
<td>Demolition Of Pavement (Flexible)</td>
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<td>Asphalt Concrete Base Course</td>
<td>TON</td>
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<tr>
<td>Asphalt Concrete Surface Course</td>
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<tr>
<td>Pedestrian Fence</td>
<td>LF</td>
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### MISCELLANEOUS / ROAD ITEMS

- **Traffic Barrier Service Concrete**
- **Debris Netting**
- **Concrete Parapet**
- **Concrete Structure**
- **Elastomeric Expansion Dam**
- **Concrete Parapet**
- **Concrete Class A4**
- **Concrete Slab**
- **Deck Drainage System**
- **Concrete Parapet**
- **Concrete Structure**
- **Elastomeric Expansion Dam**

**Notes:**
- **Corrugated Metal Sheeting:**
- **Prestressed Concrete Slabs:**
- **Structural Steel Plates:**
- **Steel Slab:**
- **Concrete Slab:**
- **Deck Drainage System:**
- **Demolition Of Pavement (Flexible):**
- **Asphalt Concrete Base Course:**
- **Asphalt Concrete Surface Course:**
- **Concrete Parapet:**
- **Concrete Structure:**
- **Elastomeric Expansion Dam:**
- **Concrete Parapet:**
- **Concrete Slab:**
- **Deck Drainage System:**
- **Concrete Parapet:**
- **Concrete Structure:**
- **Elastomeric Expansion Dam:**

---

**LUMP SUM BID ITEMS**

- **Construction Surveying**
- **Telephone Conduct System**
- **Deck Drainage System**

**Notes:**
- **Bid Item Deck Drainage System - B6XX: Additional items are included in the bid.**
- **Bid Item Telephone Conduct System - B6XX: Additional items are included in the bid.**

---

**INDEX OF SHEETS**

- **Title Sheet:**
- **Plan, Profile and General Notes:**
- **Retaining Wall Details:**
- **Retaining Wall Plan and Elevation:**
- **Engineering Geology:**
- **Reinforcing Steel Schedule:**
- **Parapets:**
- **Integral Backwall:**
- **Deck Plan:**
- **Beam Details:**
- **Transverse Section:**
- **Preliminary Plans:**

**Notes:**
- **These plans not to be used for construction:**
- **Index of Sheets:**
- **Estimated Quantities and Index of Sheets:**

---

**PRELIMINARY PLANS**

- **These plans not to be used for construction:**
- **Comprehensive Highway Plan:**
- **Suggested Resurfacing Plan:**
- **Route Plan:**
- **Sectional Plan:**
- **Transverse Section:**
- **Preliminary Plans:**

---

**STRUCTURE AND BRIDGE DIVISION**

- **Estimated Quantities and Index of Sheets:**
- **Comprehensive Highway Plan:**
- **Suggested Resurfacing Plan:**
- **Route Plan:**
- **Sectional Plan:**
- **Transverse Section:**
- **Preliminary Plans:**

**Notes:**
- **These plans not to be used for construction:**
- **Comprehensive Highway Plan:**
- **Suggested Resurfacing Plan:**
- **Route Plan:**
- **Sectional Plan:**
- **Transverse Section:**
- **Preliminary Plans:**
STRUCTURE AND BRIDGE DIVISION
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

Abutment Segment C

PCP 30'-0" + 0'-0"

PCP 29'-0" + 0'-0"

End of slab typ.

End of slab typ.

End of slab typ.

End of slab typ.

End of slab typ.

Beam 30

Beam 30

Beam 29

Beam 29

Beam 28

Beam 28

Beam 27

Beam 27

Beam 26

Beam 26

Beam 25

Beam 25

Beam 24

Beam 24

Beam 23

Beam 23

Beam 22

Beam 22

Beam 21

Beam 21

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Beam 9

Beam 8

Beam 8

Beam 7

Beam 7

Beam 6

Beam 6

Beam 5

Beam 5

Beam 4

Beam 4

Beam 3

Beam 3

Beam 2

Beam 2

Beam 1

Beam 1

ABUTMENT A

PLAN

ELEVATION

PILING AND FOOTING REINFORCEMENT PLAN

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION
TRANSVERSE SECTION

Scale: \( \frac{\text{in.}}{1\text{'-0"}} \)

- Face of rail
- Varies - out to out
- Varies - to Rte. 631
- Varies - Segment E
- Varies - Segment D
- 1" Longitudinal joint
- Face of curb
- Face of roll

- 12"
- 4" min.
- 6" min. typ.
- 6 - 4'-0"-wide box beams = 36'-0"
- Beams sloped at 0.30% grey
- 6 - 4'-0"-wide box beams = 36'-0"
- Beams sloped at 0.23% grey

**NOTE:**
- See Sheet 91 for planter details
- See Drip Detail typ.
- See Shear Key Detail typ.
- See shear key Symm. about L

**Shear Key Details:**
- Recess of exterior slab shall be filled with non-shrink grout
- Fill with high strength non-shrink grout

**Transverse Tendon:**
- 1" transverse tendon
- 4" min. typ.
- 6 - 4" Conduits

**Drip Detail:**
- EP5 epoxy
- Type EP4 or Type EB

**Detail A:**
- Filled with high strength non-shrink grout
- 1/4" transverse tendon

**Detail B:**
- Approved check for 1/4" x 1/4" grout
- Approved check for 1/4" x 1/4" grout
- Approved check for 1/4" x 1/4" grout
- Approved check for 1/4" x 1/4" grout

**Recess of exterior slab shall be filled with non-shrink grout:**
- Fill with high strength non-shrink grout

**Percentage of beam area:**
- 9 - 4'-0" wide box beams = 36'-0"
- 3 - 4'-0" wide box beams = 36'-0"
- Beams sloped at 0.30% grey
- 3 - 4'-0" wide box beams = 36'-0"
- Beams sloped at 0.23% grey

**PRELIMINARY PLANS:**
- THESE PLANS NOT TO BE USED FOR CONSTRUCTION
FRAMING PLAN

Note: For Working Line angles, see Sheet XX
**Strand Type**

**Beam**

<table>
<thead>
<tr>
<th>Row</th>
<th>Beam No.</th>
<th>Location</th>
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<tbody>
<tr>
<td>1</td>
<td>SL0501</td>
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<td>2</td>
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<tr>
<td>3</td>
<td>SR03</td>
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<tr>
<td>4</td>
<td>SR03</td>
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</table>

**Notes:**

1. In lieu of splicing several reinforcing bars to form each stirrup, the stirrup may be made from one single bar.
2. All reinforcing bars shall be Corrosion Resistant Reinforcing Steel (Class I).
3. Slab corners damaged during construction shall be restored to their shape as shown on the plans by an approved epoxy mortar.
4. The Contractor shall submit prestressing strand pattern to the Engineer for approval.
5. Due to construction tolerances, adjustment to the bridge seat elevations may be needed. It is the Contractor's responsibility to make such adjustment as directed by the Engineer to balance the full bearing of the slab on the abutments.
6. SR03 series may be slightly shifted as directed by the Engineer to clear 2" of chord for transverse tendon.
ELEVATION

SECTION A-A

Note: Dimensions shown are measured in the respective horizontal and vertical planes.

The Contractor shall determine all dimensions and details necessary for installation.

* Concrete shall be Class AA.

† Bevels for concrete shall be +/-. 5°.

The reinforcing steel shown has been detailed based on a standard joint for the cross slope and for an 8" slab depth. The Contractor shall adjust the reinforcing steel as required for other cross slopes and slab depths.

‡ Reinforcing steel shall be Corrosion Resistant Reinforcing Steel Class 0.

Posts and rail members shall be ASTM A500 Grade B steel. Plates shall be ASTM A500, Grade B. Bars for attaching plate to posts shall be ASTM A615, Grade B, beams shall be ASTM A992 Grade 50, and ASTM A992 Grade 60. Washers shall be ASTM F1597.

Note: Sections beyond the splices shown are to be extended by the length of one and a half times the required arc of curvature per foot cross slope and for a 8" slab depth. The Contractor shall determine all dimensions and details necessary for installation.

* Steel shall be hot dipped galvanized.

Posts shall be spaced at a minimum of 6'-6" minimum thickness, having a nominal durometer hardness of 60. Pads shall conform to post base dimensions.

Cut sections of posts to match cross slope before welding so that the edges of the bolt and ground do not show edges where cut. Cold galvanizing shall be applied to damaged galvanized areas.

* Steel shall be ASTM A36 steel. Steel pipe sleeves shall be ASTM A53.

Posts and rail members shall be ASTM A500 Grade B steel. Plates shall be ASTM A36 steel. Steel pipe sleeves shall be ASTM A53.

* All steel shall be hot dip galvanized.

Bolts for attaching rails to post are 5/8" diameter round head (with hole in head), ASTM A449. All other bolts shall be ASTM A325. Nuts shall be ASTM A194 Grade 2H. Washers shall be ASTM F1597.

Bolt extensions beyond the nuts shown are to be extended by the length of one and a half finishing turns or +/-. If the extension is longer, excess shall be cut off and the edges of the bolt and ground do not show edges where cut. Cold galvanizing shall be applied to damaged galvanized areas.

* Reinforcing steel shown has been detailed based on a standard joint for the cross slope and for an 8" slab depth. The Contractor shall adjust the reinforcing steel as required for other cross slopes and slab depths.

* All concrete shall be Class A4.

For additional notes, see sheet__.

Revised: Mar. 2015

ARCHITECTURAL TREATMENT

The Contractor shall determine all dimensions and details necessary for installation.

* Concrete shall be Class AA.

† Bevels for concrete shall be +/-. 5°.

The reinforcing steel shown has been detailed based on a standard joint for the cross slope and for an 8" slab depth. The Contractor shall adjust the reinforcing steel as required for other cross slopes and slab depths.

‡ Reinforcing steel shall be Corrosion Resistant Reinforcing Steel Class 0.

Posts and rail members shall be ASTM A500 Grade B steel. Plates shall be ASTM A500, Grade B. Bars for attaching plate to posts shall be ASTM A615, Grade B, beams shall be ASTM A992 Grade 50, and ASTM A992 Grade 60. Washers shall be ASTM F1597.

Note: Sections beyond the splices shown are to be extended by the length of one and a half times the required arc of curvature per foot cross slope and for a 8" slab depth. The Contractor shall determine all dimensions and details necessary for installation.

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Posts and rail members shall be ASTM A500 Grade B steel. Plates shall be ASTM A36 steel. Steel pipe sleeves shall be ASTM A53.

* All concrete shall be Class A4.

For additional notes, see sheet__.
59 piles spaced 6'-0" x 49'-0"

See roadway set, sheet XX

Architectural treatment

Rte. 29 main roadway set, sheet XX

Top of parapet parapet

Ground line behind wall

Proposed ground line in front of wall

Notes:
- Plan and elevation details for wall.
- See sheet XX for wall details.
- See table on sheet XX for elevation details.

For wall details, see sheet XX.
NE RETAINING WALL

PLAN AND ELEVATION 3

SCALE 1/2" = 1'-0"

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Match Line see sheet 22

58 piles spaced @ 8'-0" = 458'-0"

Proposed ground line in front of wall

Top of barrier parapet

Ground line defining wall

Tieback typ.

Pile and shaft typ.

Rte. 29 north

Mar. 2015
**NE WALL SOLDIER PILE LOCATION TABLE**

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<th>SECTION</th>
<th>SECTION</th>
<th>STATION</th>
<th>OFFSET</th>
<th>COORDINATES</th>
<th>ELEVATIONS</th>
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</table>

Note:
- All piles shall be ASTM A709 Grade 50 and galvanized.
PLAN

ELEVATION

Notes:

1. For wall details, see sheet XX.
2. See table on sheet XX for elevation details.

Scale: 1/2" = 1'-0"

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PRELIMINARY PLANS

These plans not to be used for construction.
Plane of retaining wall

Elevation

PRELIMINARY PLANS
THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION

Scale: \( \frac{1}{8}'' = 1'-0'' \)
PRELIMINARY PLANS
These plans not to be used for construction
**NW WALL SOLDIER PILE LOCATION TABLE**

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**Note:**

All piles shall be ASTM A709 Grade 50 and galvanized.

For cantilever case, lateral brace is on outside face.

For counterbracing, lateral brace is on inside face.

Detailed drawing shown on inside face.
Notes:
See Table on Sheet XX for elevation details.
For wall details, see Sheet XX.
SE RETAINING WALL
PLAN AND ELEVATION 3

PRELIMINARY PLANS
These plans not to be used for construction

SCALE 1" = 1'-0"

R.K&K
Mar. 2015
24 of 30
### SE WALL SOLDIER PILE LOCATION TABLE

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**Note:**

All piles shall be ASTM A709 Grade 50 and galvanized.

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**Diagram Notes:**

- Internal bracing shown on inside face for tie-back case.
- Latral bracing shown on outside face for cantilever case.
- GSJ indicates ground line in front of wall.
- SE RETAINING WALL DETAILS

---

**Preliminary Plans:**

These plans are not to be used for construction.
Plan and Elevation 1

SW Retaining Wall

Scale: 1" = 1'-0"

For wall details, see sheet XX.

Notes:
See table on sheet XX for section details.

Notes:
See table on sheet XX for section details.

Proposed ground line in front of wall

For wall details, see sheet XX.

Proposed ground line in front of wall

Notes:

Ground line behind wall
PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

PLAN AND ELEVATION

SCALE 1/8" = 1'-0"
PLAN

ELEVATION

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION
**SW WALL SOLDIER PILE LOCATION TABLE**

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</table>

**Details**

- All piles shall be ASTM A709 Grade 50 and galvanized.
- Lateral bracing shown on inside face for tie back case, for cantilever case, lateral brace is on outside face.

**Preliminary Plans**

These plans are not to be used for construction.

---

Note: All plans are subject to change.