

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF TRANSPORTATION

**TASK ORDER**  
**for Regional Guardrail Contract**  
**Construction Authorization Request**

UPC No.: 100536 FHWA No.: IM-PM05(320) Task Order No.: 1

State Project No.: (NFO) 0064-122-244, N501 Category: New

Task Order Value: \$ 2,014,368.25

The Task Order is referenced to REGIONAL CONTRACT UPC No.: 99525

CONTRACT ID No. : C0099525N01

FHWA. No.: NH-965-5(071) State Project No.: (NFO) GR01-965-079, N501

TOTAL OF OTHER TASK ORDERS IN CURRENT TERM/ YEAR (INCLUDING THIS TASK ORDER): \$ 2,014,368.25

**NOTE:** If additional space is needed, use an additional sheet(s) and label as Supplemental Attachment #.

**I. LOCATION AND DESCRIPTION OF PROPOSED WORK:**

EBL & WBL I-64 City of Norfolk,  
From: The Hampton Roads Bridge Tunnel  
To: Little Creek Road

**II. FUNDING SOURCE/CHARGE** UPC 100536, Act 642

**III. ATTACH ESTIMATE OF PROPOSED WORK:**

**IV. ATTACH PLAN DETAIL OR SCHEDULE:** See "*Task Order #1 Assembly, UPC #100536*"

This work will be performed at the unit prices set forth in the Regional Contract and that such work shall be performed in accordance with the contract provisions and specifications in the Regional Contract and the plans or schedule herein. The quantities set forth herein will be subject to adjustment.

This work is assigned to:

Contractor Virginia Guardrail Partners Joint Venture \_\_\_\_\_  
(Firm's Name) (Officer of the Firm)

**APPROVED BY:** VDOT PROJECT MANAGER

**Mark S. Winslow**

**PRINTED NAME**

**SIGNATURE**

**TITLE**

**DATE**

LOCATION MAP

Bing Maps

Web Images Videos Shopping News Maps More | MSN Hotmail

Sign i

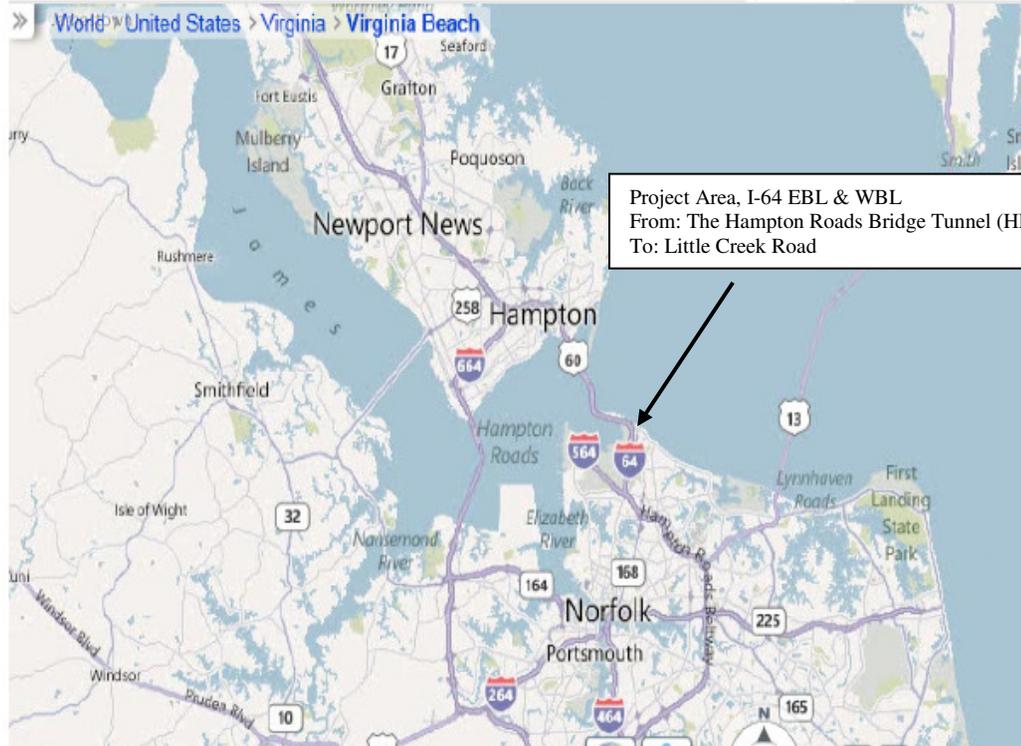
Bing

norfolk va

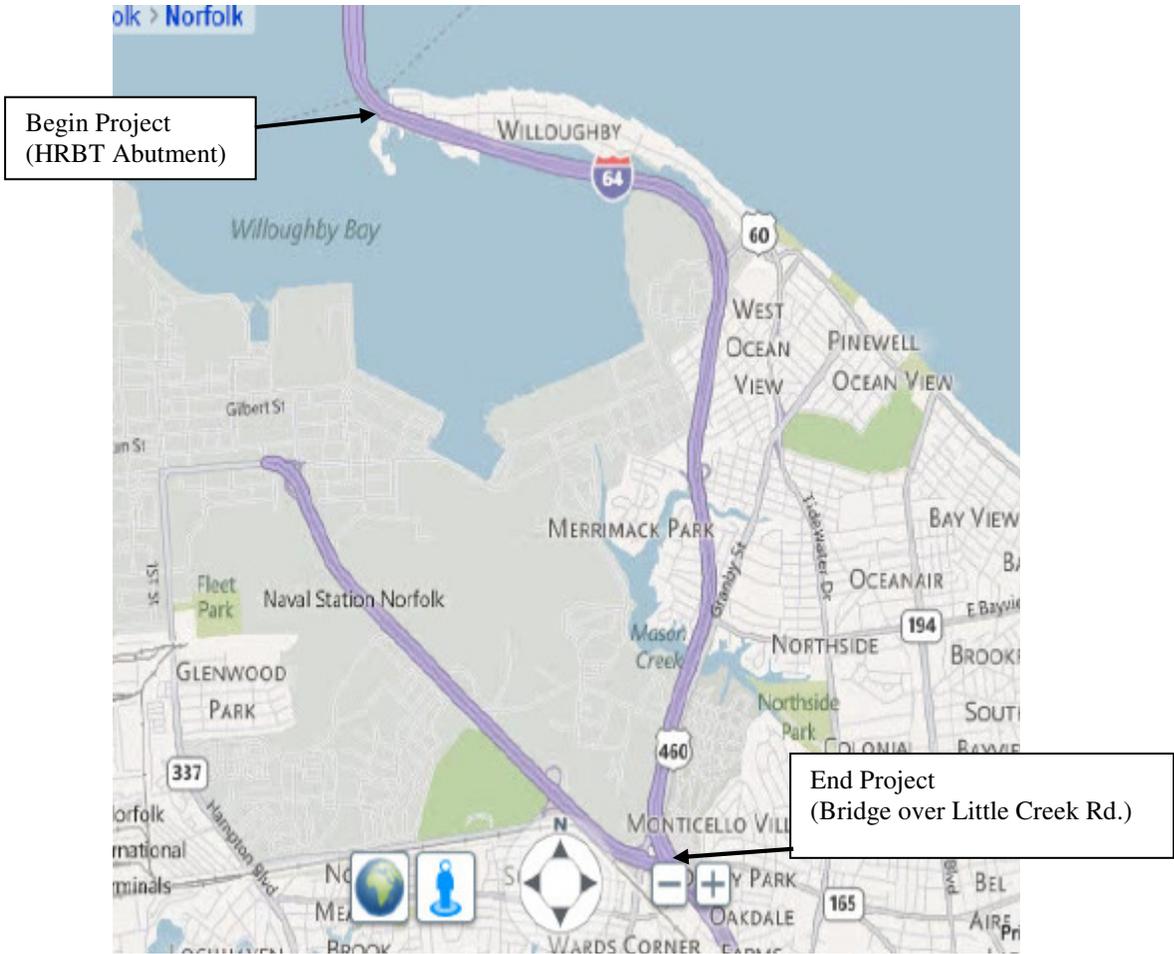


Maps

Web News Places Blogs Images Maps



TASK ORDER #1 ASSEMBLY, UPC#100536  
I-64 GUARDRAIL, CITY OF NORFOLK  
CONTRACT UPC #99525



TASK ORDER #1 ASSEMBLY, UPC#100536  
I-64 GUARDRAIL, CITY OF NORFOLK  
CONTRACT UPC #99525

**TRANSPORTATION OPERATIONS PLAN**

**Project # GR01-965-079, N501**

UPC # 99525

Modified for Task #1

UPC 100536

Each lane closure will be governed by the times established by the Regional Traffic Engineer and the Hampton Roads Transportation Operations Center (HRTOC) as shown within the contract. The Contractor and VDOT are to coordinate in notifying the public of proposed lane closures. The process developed by the Traffic Operations Center for this purpose is as follows:

- a) Contractor to submit to the Project Manager or Designee **planned lane closure** for the following week by 3 P.M. on Wednesday via E-mail for data entry into Lane Closure Advisory and Management System (LCAMS). Or, the Contractor may elect to perform data entry into LCAMS by close of business on Thursday for the following week.
- b) The Project Manager or Designee to submit planned lane closure for the upcoming week using Lane Closure Advisory and Management System (LCAMS). The Lane Closure information has to be input into Lane Closure Advisory and Management System (LCAMS) by close of business on Thursday for the following week.
- c) HRTOC is to review planned lane closure schedule for any conflicts and notify Project Manager or Designee by noon Friday.
- d) Contractor to confirm their intent to install proposed and previously approved lane closures with the Project Manager or Designee a minimum of twenty-four (24) hours in advance of proposed lane closure as previously scheduled.
- e) Project Manager or Designee to advise Residency Administrator, Facility Maintenance Manager as well as the HRTOC of proposed lane closure. Project Manager or Designee to have VA-Traffic operator enter data into VA-Traffic and to update the HRTOC daily during lane closure activities.
- f) The Hampton Roads District Public Affairs Office will use various media publications to announce planned lane closures.

The process for notifying the Project Manager, Facility Manager, HRTOC, and the Residency Administrator of scheduled work plans and traffic delays is as follows:

- a) Based on the submitted lane closure plan, the Project Manager is to update the Construction Manager and/or Regional Traffic Operations Center, ~~Elizabeth River Tunnel Facility Manager~~, Hampton Roads Bridge Tunnel Facility Manager, ~~Monitor Merrimac Memorial Bridge Tunnel Facility Manager~~ and Residency Administrator daily of all scheduled work and lane closures twenty-four hours (24) in advance of any proposed lane closures.

<u>Contact Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Cell Phone</u>
Mark S. Winslow	Acting Construction Manager	(757) 925-1528	(757) 818-1963
W. M. 'Bill' Collier	Residency Administrator (Norfolk)	(757) 494-2447	(757) 328-1148
<del>C.R. 'Rossie' Carroll</del>	<del>Res. Administrator (Williamsburg)</del>	<del>(757) 253-4611</del>	<del>(757) 746-0053</del>
<del>Joe Lomax</del>	<del>Res. Administrator (Franklin)</del>	<del>(757) 562-3194</del>	<del>(757) 619-3280</del>
Jessie Neal	Facility/Tunnel Mgr. (HRBT), (ERT) & (MMMBT)	(757) 727-4811	(757) 619-3459
<del>Harold Nelson</del>	<del>Operations Mgr. (ERT)</del>	<del>(757) 494-2407</del>	<del>(757) 592-8060</del>
<del>Darrell Southerland</del>	<del>Maint. Manager (ERT)</del>	<del>(757) 494-2409</del>	<del>(757) 328-1201</del>

TASK ORDER #1 ASSEMBLY, UPC#100536  
I-64 GUARDRAIL, CITY OF NORFOLK  
CONTRACT UPC #99525

- b) The process for notifying the HRTOC and Public Affairs staff for **unscheduled traffic delays**, Project Manager shall notify HRTOC Control Room Shift Supervisor at the following numbers:

HRTOC, Shift Supervisor	(757) 424-9920
Public Affairs Staff	(757) 925-5975

- c) The HRTOC shall update the 511 systems and VA-Traffic on scheduled closures and add unscheduled traffic delays to these systems as necessary.

The following is a list of local emergency contact agencies:

Virginia State Police dispatch, (757) 424-6800  
911 Center for all locations - 911  
Haz-Mat Center (if spill involved) -911

Procedures to respond to traffic incidents that may occur in the Work Zone:

- a) Contractor to notify State Police and VDOT Inspector in Charge.
  - b) Depending upon the severity of the incident, the Contractor may have to cease work.
  - c) Upon arrival on the scene, State Police will determine the response necessary to allow the traveling public around incident.
  - d) The Inspector in Charge shall notify the Residency Administrator and Area Construction Manager of incident and take pictures as necessary, especially pictures of the Contractor's Work Zone, to verify the proper setup.
- 1) Process of notification of incident to be followed is :
- Contractor to call:
- a) Project Maintenance of Traffic Coordinator (Inspector) (to be determined).
  - b) Construction Manager (Construction Engineer) (to be announced).
  - c) Residency Administrator Responsible City/County
    - Norfolk Residency Administrator, W. M. 'Bill' Collier, (757) 494-2447
    - ~~Williamsburg Acting Residency Administrator, C.R. 'Rossie' Carroll, (757) 253-4611~~
  - d) Facility/Tunnel Mgr. (ERT), (HRBT) & (MMMBT) Jessie Neal, (757) 727-4811
  - e) District Work Zone Safety Coordinator, Tim Rawls, (757) 925-2571
  - f) Regional Traffic Engineer, Mike Corwin, (757) 925-6020
  - g) Regional Operations Maintenance Manager, Sal Sibilia, (757) 925-1679
  - h) District Public Affairs Office (757) 925-2583
- 2) The State Police will take control of the incident and direct its clearing and restoration to normal traffic conditions.
- 3) The State Police report of the incident will be reviewed by the Area Construction Engineer to determine if any modifications of the Temporary Traffic Control Plan are necessary. If it is determined that it is necessary to alter the plan, then, a meeting will be called with the Contractor, VDOT project personnel, VDOT traffic safety representatives and the State Police (if necessary) to discuss modification and implementation of an improved traffic control plan.

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The Following lane closure restriction apply for Task #1:  
(Taken from the Special Provision for Limitations of Operation in the Contract)

From I-264 to I-564	East/West	5 a.m. to 9 a.m. 9 a.m. to 2 p.m. 2 p.m. to 7 p.m. 7 p.m. to 11 p.m. 11 p.m. to 5 a.m.	No Lanes Closed 3 Lanes Open No Lanes Closed 2 Lanes Open 1 Lane Open
From: I-564 Interchange To: Mallory Street	East/West	5 a.m. to 11 a.m. 11 p.m. to 5 a.m.	No Lanes Closed 1 Lane Closed

## Underground Utilities

VDOT is not a member of Ms. Utility. In addition to contacting Ms. Utility per specifications, the contractor will be responsible to notify various VDOT representatives to have VDOT underground property marked. A one (1) week notice will be required. Contact names and numbers are listed below.

Item	Contact Person	Telephone Number
Roadway Lighting Sign Lighting Bridge Lighting	Johnnie Winslow or Thomas Eanes	(757) 484-9015 or 818-1977 (cell)  (757) 818-1985
Traffic Signal Items Flashing Beacons	Jim Lewis	(757) 238-2834 or (757)-818-1978
Traffic Management Items Variable Message Signs Etc. <b>See Notes Below</b>	Ryan Doyle	Office - 361-3033 Cell – 328-8722 <a href="mailto:Ryan.Doyle@vdot.virginia.gov">Email – Ryan.Doyle@vdot.virginia.gov</a>
Traffic Counter Stations	Ms. Brooke Kordas	1-877-615-4083

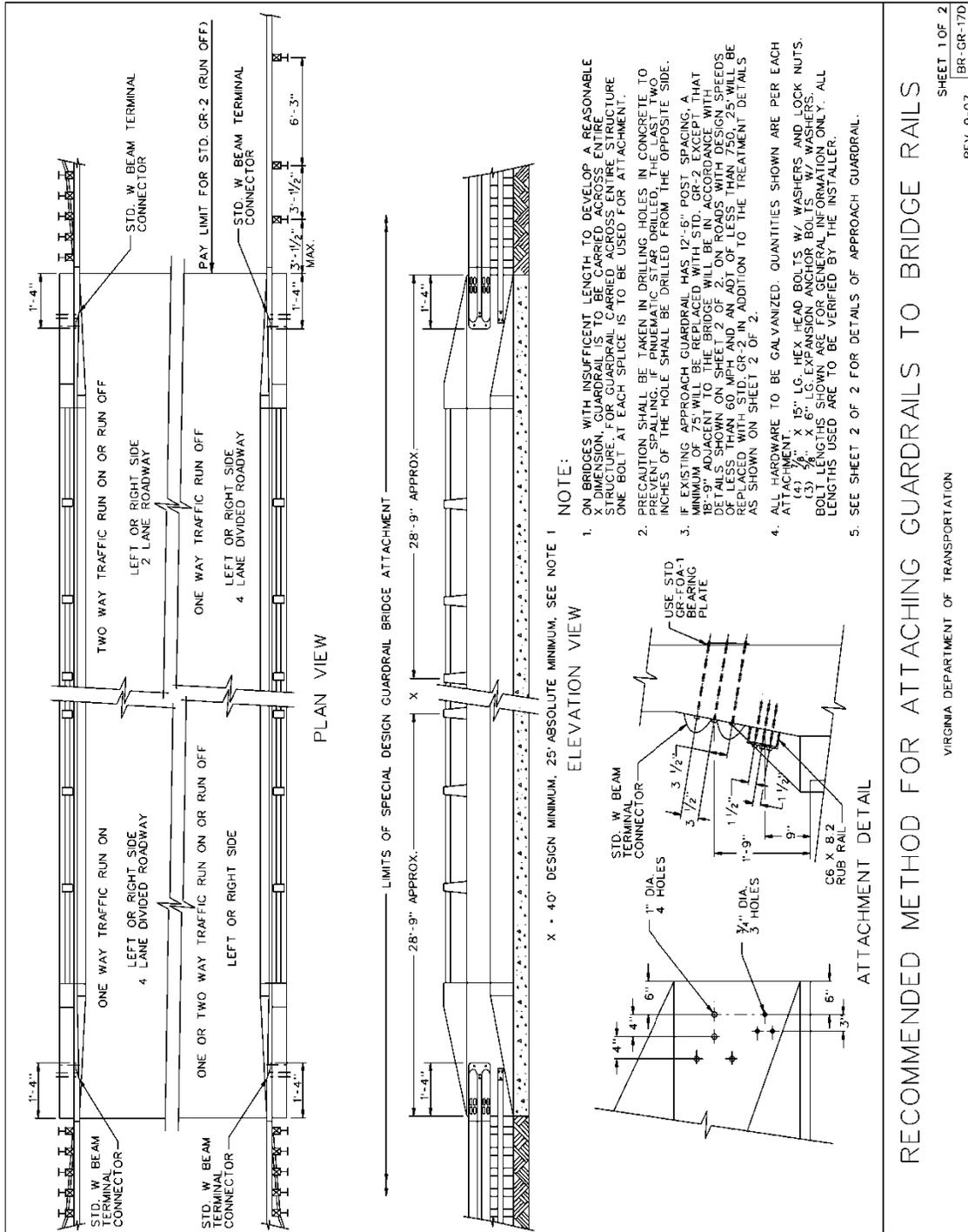
**Notes:**

1. Some of the Traffic Management items are under construction and this time and may be the responsibility of the individual contractor installing same. Please ask Mr. Doyle to clarify.
2. The locate requests will need to be made via email stating the location, direction of travel, and other pertinent info.

Last Update:

9/19/2011

BR-GR-17D Plan Sheets



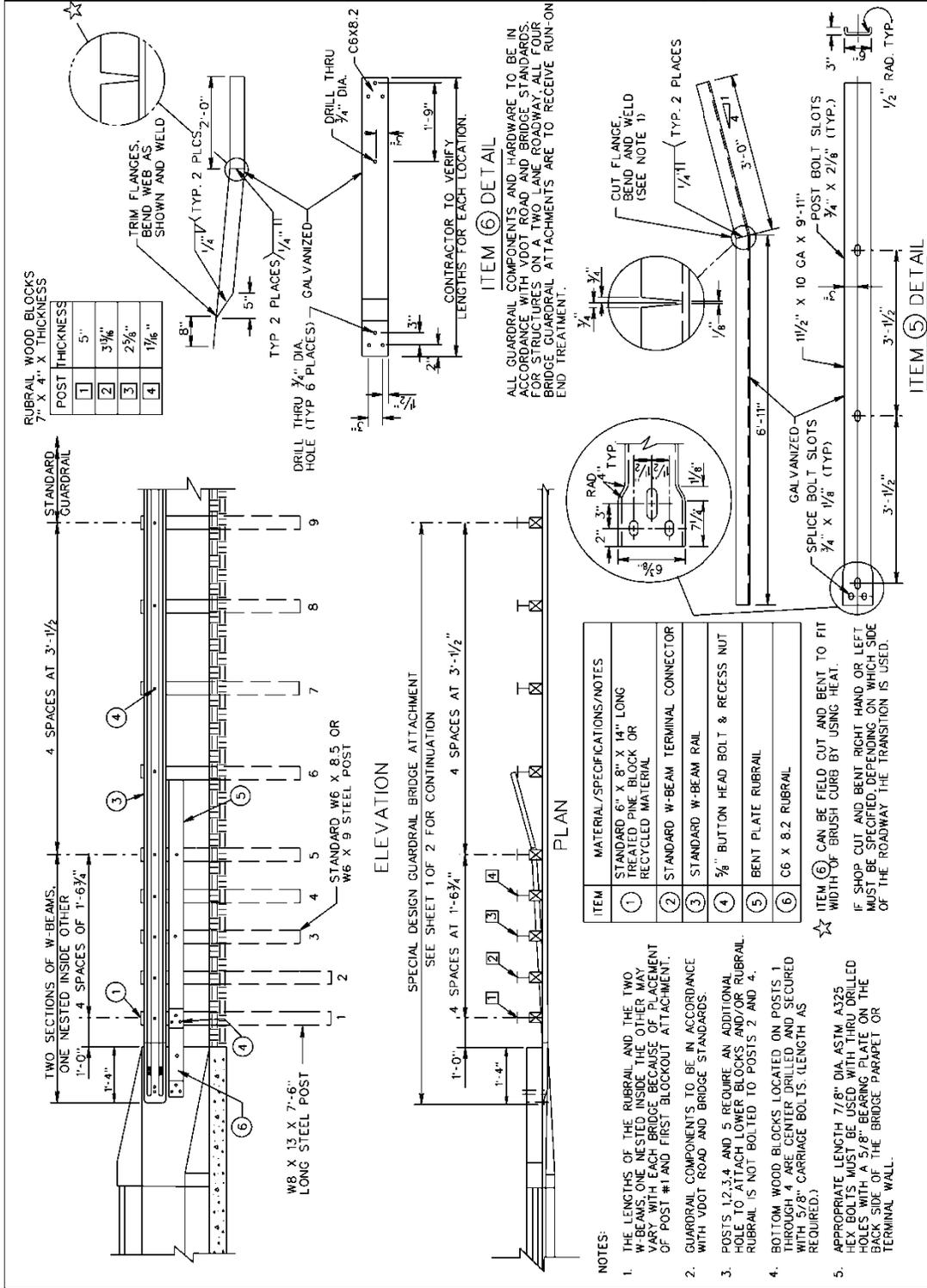
NOTE:

- ON BRIDGES WITH INSUFFICIENT LENGTH TO DEVELOP A REASONABLE X DIMENSION, GUARDRAIL IS TO BE CARRIED ACROSS ENTIRE STRUCTURE FOR GUARDRAIL CARRIED ACROSS ENTIRE STRUCTURE. ONE BOLT AT EACH SLICE IS TO BE USED FOR ATTACHMENT.
- PRECAUTION SHALL BE TAKEN IN DRILLING HOLES IN CONCRETE TO PREVENT SPALLING. IF PNEUMATIC STAR DRILLED, THE LAST TWO INCHES OF THE HOLE SHALL BE DRILLED FROM THE OPPOSITE SIDE.
- IF EXISTING APPROACH GUARDRAIL HAS 12'-6" POST SPACING, A MINIMUM OF 75' WILL BE REPLACED WITH STD. GR-2 EXCEPT THAT IS TO BE ADJACENT TO THE BRIDGE WILL BE IN ACCORDANCE WITH PREVIOUS PRACTICE. ON SPANS OF LESS THAN 60 MPH AND AN ADT OF LESS THAN 750, 25' WILL BE REPLACED WITH STD. GR-2 IN ADDITION TO THE TREATMENT DETAILS AS SHOWN ON SHEET 2 OF 2.
- ALL HARDWARE TO BE GALVANIZED. QUANTITIES SHOWN ARE PER EACH ATTACHMENT.
  - (4) 3/4" X 15" LG. HEX HEAD BOLTS W/ WASHERS AND LOCK NUTS.
  - (3) 5/8" X 6" LG. EXPANSION ANCHOR BOLTS W/ WASHERS.
 BOLT LENGTHS SHOWN ARE FOR GENERAL INFORMATION ONLY. ALL LENGTHS USED ARE TO BE VERIFIED BY THE INSTALLER.
- SEE SHEET 2 OF 2 FOR DETAILS OF APPROACH GUARDRAIL.

RECOMMENDED METHOD FOR ATTACHING GUARDRAILS TO BRIDGE RAILS

SHEET 1 OF 2  
 REV. 9-07  
 BR-GR-17D

VIRGINIA DEPARTMENT OF TRANSPORTATION



RUBRAL WOOD BLOCKS  
 7" X 4" X THICKNESS

POST THICKNESS	1	2	3	4
5"				
3 3/4"				
2 3/8"				
1 7/8"				

ITEM (6) DETAIL  
 ALL GUARDRAIL COMPONENTS AND HARDWARE TO BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS. FOR STRUCTURES ON A TWO LANE ROADWAY, ALL FOUR BRIDGE GUARDRAIL ATTACHMENTS ARE TO RECEIVE RUN-ON END TREATMENT.

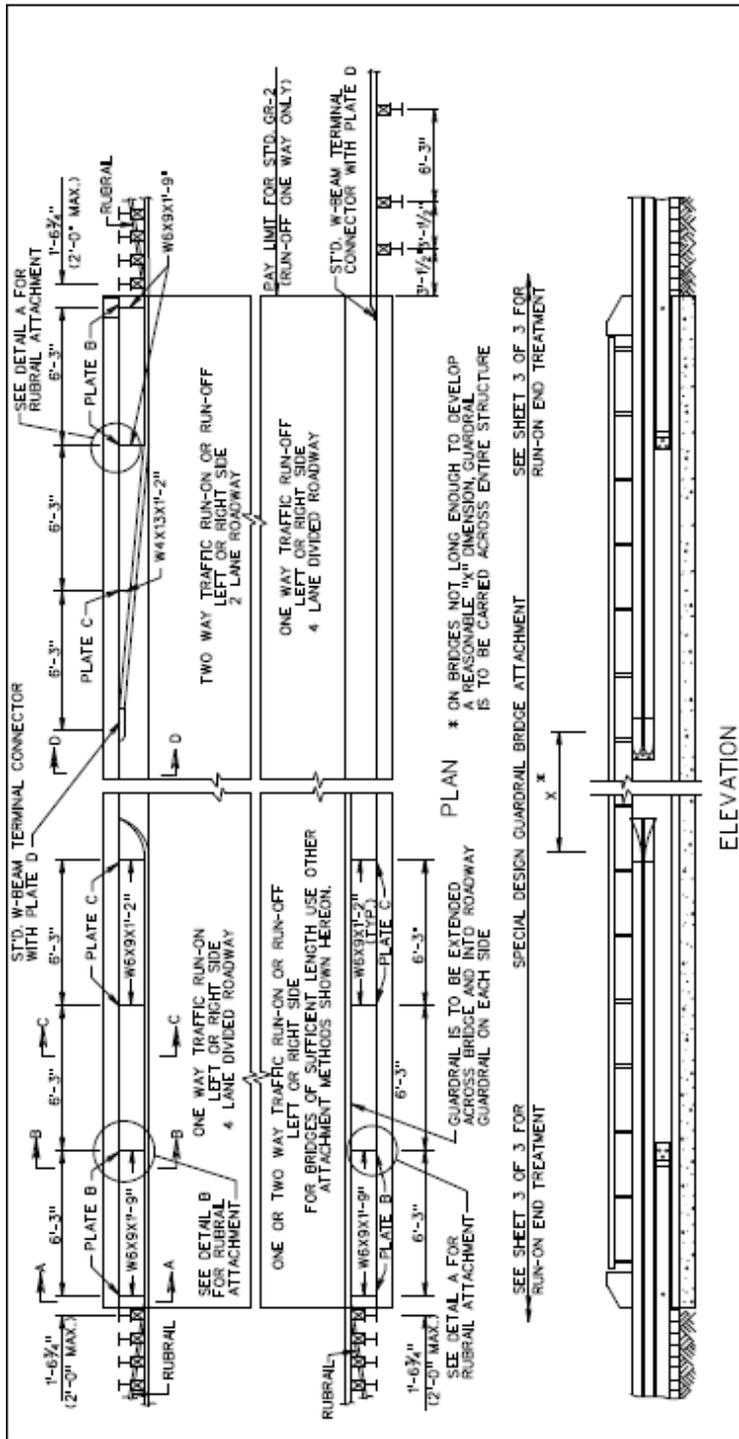
ITEM	MATERIAL/SPECIFICATIONS/NOTES
1	STANDARD 6" X 8" X 14" LONG TREATED PINE BLOCK OR RECYCLED MATERIAL
2	STANDARD W-BEAM TERMINAL CONNECTOR
3	STANDARD W-BEAM RAIL
4	5/8" BUTTON HEAD BOLT & RECESS NUT
5	BENT PLATE RUBRAL
6	C6 X 8.2 RUBRAL

ITEM (6) CAN BE FIELD CUT AND BENT TO FIT WIDTH OF BRUSH CURB BY USING HEAT.  
 IF SHOP CUT AND BENT RIGHT HAND OR LEFT MUST BE SPECIFIED DEPENDING ON WHICH SIDE OF THE ROADWAY THE TRANSITION IS USED.

SPECIFICATION REFERENCE

RUN-ON GUARDRAIL DETAILS - APPROACHES (STEEL POSTS)

BR-GR-20B Plan Sheets



NOTES:

1. ALL HARDWARE SHALL BE GALVANIZED
2. BOLT LENGTHS SHOWN ARE FOR GENERAL INFORMATION ONLY. ALL LENGTHS USED SHALL BE VERIFIED BY THE INSTALLER.
3. ALL GUARDRAIL SPICES OCCURRING ON THE BRIDGE SHALL BE LOCATED AT BRIDGE RAIL POSTS.
4. IF EXISTING APPROACH GUARDRAIL IS 12'-6" POST SPACING, A MINIMUM OF 75' WILL BE REPLACED WITH STANDARD GR-2 EXCEPT THAT 18'-9" ADJACENT TO THE BRIDGE WILL BE IN ACCORDANCE WITH DETAILS SHOWN ON SHEET 3 OF 3. ON ROADS WITH DESIGN SPEEDS OF LESS THAN 60 MPH AND AN AOT OF LESS THAN 750, 25' WILL BE REPLACED WITH STANDARD GR-2 IN ADDITION TO THE TREATMENT DETAILS AS SHOWN ON SHEET 3 OF 3.
5. HOLES DRILLED IN GUARDRAIL AT THE PLATE LOCATIONS SHALL BE 1/2" X 1/2" SLOTTED WHERE PREFABRICATED SLOTTED HOLES ARE NOT PROVIDED.
6. PRECAUTIONS SHALL BE TAKEN IN DRILLING HOLES IN CONCRETE TO PREVENT SPALLING. F PNEUMATIC STAR DRILLED, THE LAST TWO INCHES OF THE HOLE SHALL BE DRILLED FROM THE OPPOSITE SIDE.
7. WOODEN SPACING BLOCKS SHALL BE TREATED WITH A PRESERVATIVE AND WEATHER RESISTANT FINISH AS APPROVED BY THE ENGINEER.

RECOMMENDED METHOD FOR ATTACHING GUARDRAIL TO BRIDGE RAIL

A COPY OF THE SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

VIRGINIA DEPARTMENT OF TRANSPORTATION

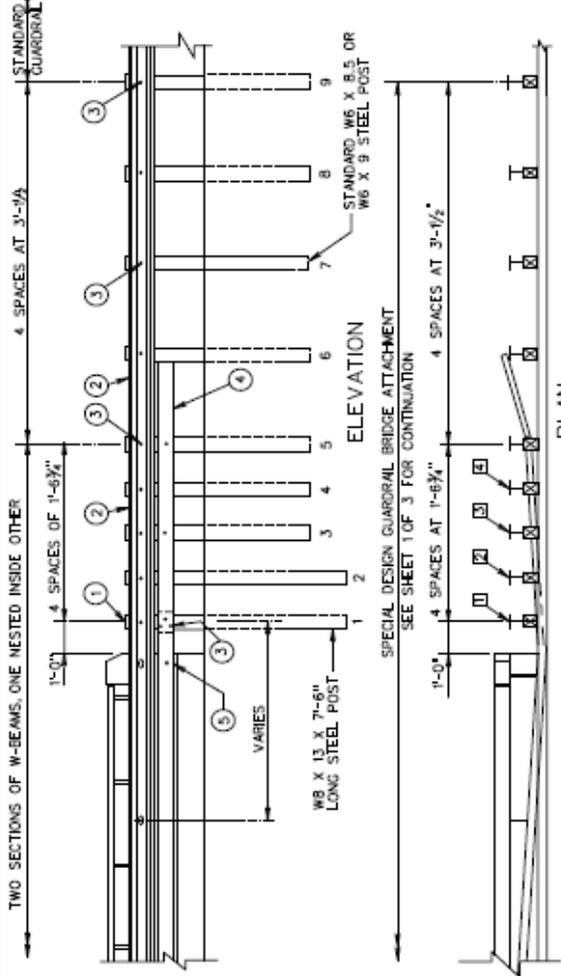


NOTES:

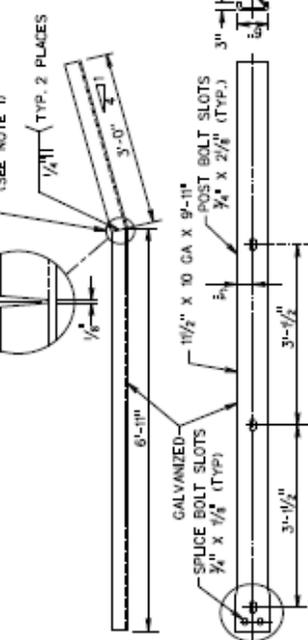
1. THE LENGTHS OF THE RIBRAIL AND THE TWO W-BEAMS, ONE NESTED INSIDE THE OTHER MAY VARY WITH EACH BRIDGE BECAUSE OF PLACEMENT OF POST #1 AND FIRST BLOCKOUT ATTACHMENT.
2. GUARDRAIL COMPONENTS TO BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS.
3. POSTS 1, 2, 3, 4 AND 5 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKS AND/OR RIBRAIL. RIBRAIL IS NOT BOLTED TO POSTS 2 AND 4.
4. BOTTOM WOOD BLOCKS LOCATED ON POSTS 1 THROUGH 4 ARE CENTER DRILLED AND SECURED WITH 5/8" CARRIAGE BOLTS. LENGTH AS REQUIRED.
5. ALL GUARDRAIL COMPONENTS AND HARDWARE TO BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS. FOR STRUCTURES ON A TWO LANE ROADWAY, ALL FOUR BRIDGE GUARDRAIL ATTACHMENTS ARE TO RECEIVE RUN-ON END TREATMENT.

ITEM	MATERIAL/SPECIFICATIONS/NOTES
1	STANDARD 8" X 8" X 14' LONG TREATED PINE BLOCK OR RECYCLED MATERIAL
2	STANDARD W-BEAM RAIL
3	3/4" BUTTON HEAD BOLT & RECESS NUT
4	BENT PLATE RIBRAIL
5	C6 X 8.2 RIBRAIL

★ ITEM 5 CAN BE FIELD CUT AND BENT TO FIT WIDTH OF BRUSH CURB BY USING HEAT. F SHOP CUT AND BENT, RIGHT HAND OR LEFT MUST BE SPECIFIED DEPENDING ON WHICH SIDE OF THE ROADWAY THE TRANSITION IS USED.



POST	THICKNESS
1	5"
2	3 3/4"
3	2 3/4"
4	1 3/4"



RUN-ON GUARDRAIL DETAILS - APPROACHES

A COPY OF THE SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

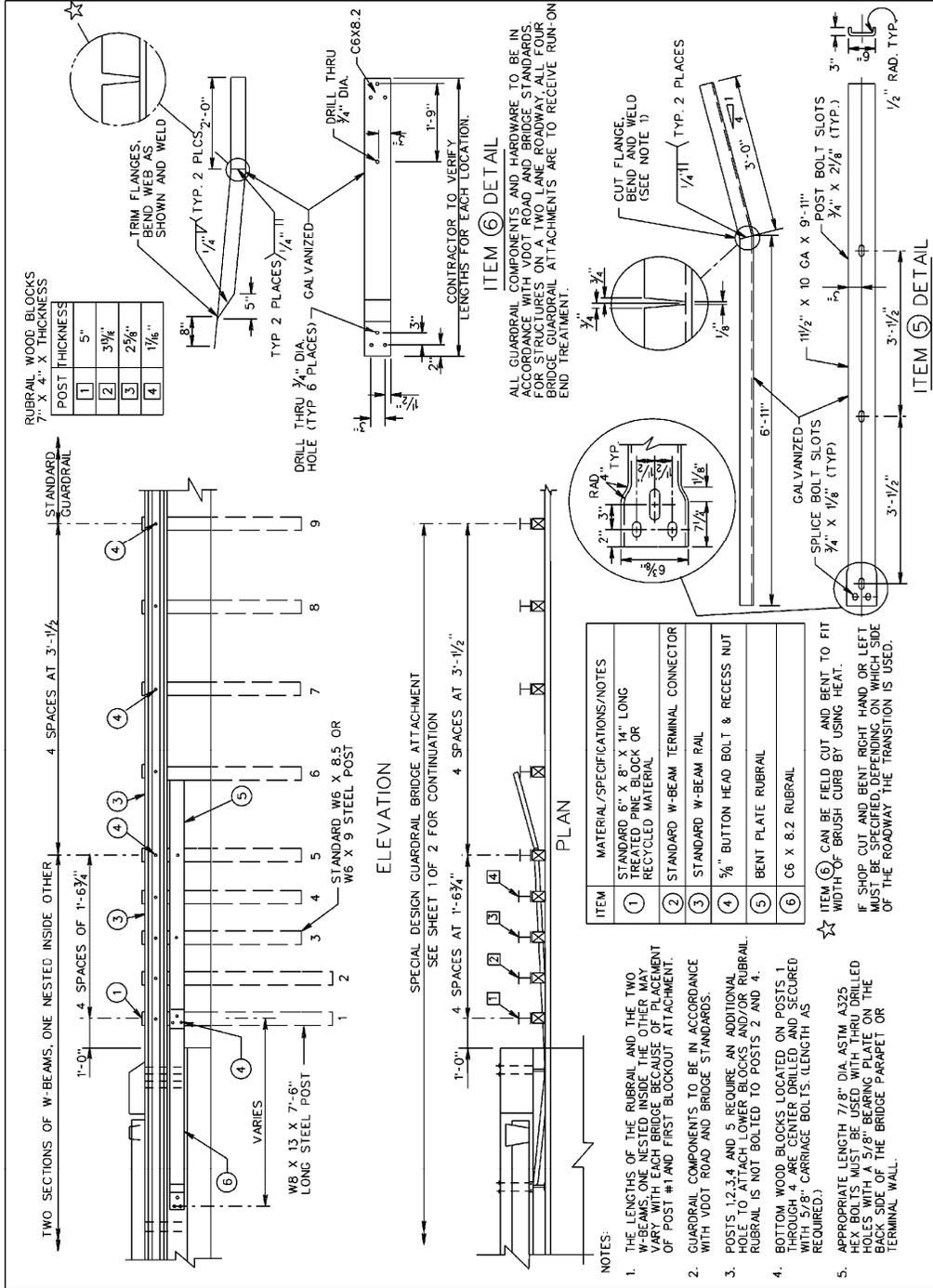
VIRGINIA DEPARTMENT OF TRANSPORTATION

ITEM 5 DETAIL

SHEET 3 OF 3

NEW 8/2011 BR-CR-200





ITEM	MATERIAL/SPECIFICATIONS/NOTES
1	STANDARD 6" X 8" X 14" LONG TREATED PINE BLOCK OR RECYCLED MATERIAL
2	STANDARD W-BEAM TERMINAL CONNECTOR
3	STANDARD W-BEAM RAIL
4	5/8" BUTTON HEAD BOLT & RECESS NUT
5	BENT PLATE RUBRAL
6	C6 X 8.2 RUBRAL

NOTES:  
 1. THE LENGTHS OF THE RUBRAL AND THE TWO W-BEAMS, ONE NESTED INSIDE THE OTHER MAY VARY WITH EACH BRIDGE BECAUSE OF PLACEMENT OF POST #1 AND FIRST BLOCKOUT ATTACHMENT.  
 2. GUARDRAIL COMPONENTS TO BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS.  
 3. POSTS 1,2,3,4 AND 5 REQUIRE AN ADDITIONAL RUBRAL TO BE NESTED TO POSTS 2 AND 4.  
 4. BOTTOM WOOD BLOCKS LOCATED ON POSTS 1 THROUGH 4 ARE CENTER DRILLED AND SECURED (REQUIRED).  
 5. APPROPRIATE LENGTH 7/8" DIA ASTM A325 HEX BOLTS MUST BE USED WITH THRU DRILLED HOLES WITH A 5/8" BEARING PLATE ON THE BACK SIDE OF THE BRIDGE PARAPET OR TERMINAL WALL.  
 ☆ ITEM (6) CAN BE FIELD CUT AND BENT TO FIT WIDTH OF BRUSH CURB BY USING HEAT. IF SHOPS CUT AND BENT RIGHT HAND OR LEFT SIDE MUST BE SPECIFIED IN REFERENCE TO WHICH SIDE OF THE ROADWAY THE TRANSITION IS USED.

SPECIFICATION REFERENCE

RUN-ON GUARDRAIL DETAILS - APPROACHES (STEEL POSTS)

TASK ORDER #1 ASSEMBLY, UPC#100536  
I-64 GUARDRAIL, CITY OF NORFOLK  
CONTRACT UPC #99525

8/24/2011  
3:00 PM

Location and Summary-Task #1 UPC 100536.xls

CONTRACT UPC: 99525  
SUB-PROJECT UPC: 100536  
DATE: 7/25/2011  
TASK # 1

LINE NO.	ITEM NO.	ITEM DESCRIPTION	UNIT	SECTION NUMBER						TOTAL
				1	2	3	4	5	6	
10	13310	GUARDRAIL TERMINAL GR-6 (NCHRP 350)	L.F.				13			13
20	13312	GUARDRAIL TERMINAL GR-7 (NCHRP 350)	EA.	2		2			1	5
30	13315	GUARDRAIL TERMINAL GR-11	EA.	5	6	4	6		4	27
40	13320	GUARDRAIL GR-2	L.F.	1,646	7,530	1,985	5,660		1,425	18,646
50	13322	GUARDRAIL GR-2, 8' POST	L.F.							-
60	13323	GUARDRAIL GR-2A	L.F.	11,836	450	8,336	300		2,900	24,987
70	13331	RADIAL GUARDRAIL GR-2	L.F.	-	-	290	-		-	465
80	13335	GUARDRAIL GR-3	L.F.							-
90	13336	GUARDRAIL TERMINAL GR-3	EA.							-
100	13345	ALTERNATE BREAKAWAY TERMINAL (GR-9)	EA.	2	7	2	7		6	26
110	13349	GUARDRAIL TERMINAL SITE PREPARATION	EA.	-	-	-	-		-	-
120	13355	GUARDRAIL GR-10	L.F.	313	-	25	138		25	501
130	13383	FIX. OBJECT ATTACH. GR-FOA-1, TY. 1	EA.	-	-	-	-		-	-
140	13384	FIX. OBJECT ATTACH. GR-FOA-1, TY. 2	EA.	-	-	-	-		-	-
150	13385	FIX. OBJECT ATTACH. GR-FOA-3, TY. 1	EA.	-	-	-	-		-	-
160	13386	FIX. OBJECT ATTACH. GR-FOA-3, TY. 2	EA.	-	-	-	-		-	-
170	13389	FIXED OBJECT ATTACH. GR-FOA-4 TY. I	EA.							-
180	13390	FIXED OBJECT ATTACH. GR-FOA-4 TY. II	EA.							-
190	13392	FIX. OBJECT ATTACH. GR-FOA-2, TY. 1	EA.	1	1	-	-		1	3
200	13393	FIX. OBJECT ATTACH. GR-FOA-2, TY. 2	EA.	1	1	1	1		-	5
210	13400	GUARDRAIL GR-2, 10' POST	L.F.							-
220	13400	GUARDRAIL REUSE GR-2, 8' POST	L.F.							-
230	13400	GUARDRAIL RUB RAIL	L.F.							-
240	13400	GUARDRAIL W-BEAM	L.F.							-
250	13400	GUARDRAIL W-BEAM BRIDGE RAIL	L.F.							-
260	13401	GUARDRAIL BRGR, TYPE 1 (RUN ON)	EA.	8	12	9	12		2	43
270	13401	GUARDRAIL BRGR, TYPE 2 (RUN OFF)	EA.	9	10	8	8		2	37
280	13401	GUARDRAIL BULL NOSE BARRIER (GORE)	EA.							-
290	13401	GUARDRAIL BULL NOSE BARRIER (MEDIAN)	EA.							-
300	13401	GUARDRAIL OFFSET BLOCK (WOOD OR COMPOSITE)	EA.						35	80
310	13401	GUARDRAIL POST GR-2 10'	EA.							-
320	13401	GUARDRAIL POST GR-2 8'	EA.						35	80
330	13401	GUARDRAIL REUSE GUARDRAIL TERMINAL, GR-9	EA.							-

SUMMARY OF QUANTITIES

Page 1

TASK ORDER #1 ASSEMBLY, UPC#100536  
 I-64 GUARDRAIL, CITY OF NORFOLK  
 CONTRACT UPC #99525

Location and Summary-Task #1 UPC 100536.xls

8/24/2011  
 3:00 PM

LINE NO.	ITEMS REQUIRED		UNIT	SECTION NUMBER						TOTAL	
	ITEM NO.	ITEM DESCRIPTION		1	2	3	4	5	6		
340	13421	MEDIAN BARRIER MB-3	L.F.		25		75				100
350	16242	AGGR. BASE MATL. TY. I or II, NO. 21A or 21B	TON								-
360	17451	GUARDRAIL DELINEATORS	EA								-
370	24272	TRUCK MOUNTED ATTENUATOR	HR								-
380	24278	GROUP II CHANNELIZATION DEVICES	DAY								-
390	24279	PORTABLE CHANGEABLE MESSAGE SIGN	HR								-
400	24281	ELECTRONIC ARROW	HR								-
410	24282	FLAGGER SERVICE	HR								-
420	24601	REMOVE EXIST GUARDRAIL GR	L.F.	13,797	7,823	10,614	6,985	2,213	4,892		46,324
430	24611	RESET EXIST. GUARDRAIL GR-2	L.F.				475				475
440	24616	REUSE GUARDRAIL TERMINAL GR-7 GR	EA.								-
450	24617	REUSE GUARDRAIL EXISTING W-BEAM	L.F.								-
460	24617	REUSE GUARDRAIL GR-2	L.F.								-
470	24640	RECONSTRUCT EXIST. SHOULDER RESTORATION	L.F.	1,150	6,095	1,650	4,070	175	1,655		14,795
480	27321	PROTECTIVE COVERING EC-2	S.Y								-
490	27505	TEMP. SILT FENCE	L.F.								-
500	27506	TEMP. FILTER BARRIER	L.F.								-
510	49012	UTILITIES TEST HOLES	EA								-
WO	13462	MEDIAN BARRIER MB-5F	L.F.						25		25
WO	13401	GUARDRAIL TERMINAL CAT-350	EA		1			1			2

NON-STD DESCRIPTION IN BLUE TEXT



Timothy K Haynam  
 2011.08.31 14:09:39 -04'00'

SUMMARY OF QUANTITIES

Page 2





TASK ORDER #1 ASSEMBLY, UPC#100536  
 I-64 GUARDRAIL, CITY OF NORFOLK  
 CONTRACT UPC #99525

Location and Summary-Task #1 UPC 100536.xls

SECT / LOC #	SHOULDER	GUARDRAIL SITE LOCATION	REMOVE GR	GR. END TERMINAL (Included w/ Item #24601)	INSTALL GR-2	INSTALL Gr-2 (10)	REUSE GR-2	REUSE GR-2, (8)	RESET GR	INSTALL GR-2 RADIAL	INSTALL GR-2A	MB-3	INSTALL GR-10	FOA 1	FOA 2	FOA 3	Sp. Des. FOA	INSTALL GR-6	INSTALL GR-7	INSTALL GR-9	INSTALL GR-11	SHOULDER RESTORATION	REUSE "W" BEAM (DOUBLE NEST)	SITE PREP	REMARKS	
			L.F.	EA, TY.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ty. 1, EA	Ty. 2, EA	Ty. 3, EA	Ty. 1, EA	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA	

Loc. 2, 21 Note:  
 1. Standard lined GR-2 to begin from end of existing tangent section location. Use 15:1 flare per Standard MB-3 (50201)  
 2. From lined GR-2, use standard MB-3 for a minimum length of 25' to give room for the terminal to function.  
 3. Since the terminal will be centered in the median and away from nuisance Hts, use a Standard GR-9 (MB-3 Terminal CAT or Brakemaster Option) instead of a more expensive special design impact attenuator.

BR-GR SUMMARY	LOC. #	BR.#	BRIDGE OVER	BR-GR-T/D	TY.1	TY.2	BR-GR-20B	TY.1	TY.2	BR-GR-31	TY.1	TY.2
2-1	2863	1	Little Creek Rd.									
2-2	2871	1	Granby St.									
	2859	1	New Gate Ave									
	2865	1	Mason Creek (Water Br.)									
	?	1	Bay View Blvd									
	2863	?										
	2858	1	Oats Creek (and Bay Ave)									
	?	1	Firat View St.									
	?	1	Mason Creek Rd.									
	?	1	Wilcox Hwy									
	?	1	13TH View St.									
	2900	1	HFIBT									
			Total		11	10	0	1	0	2		











TASK ORDER #1 ASSEMBLY, UPC#100536  
I-64 GUARDRAIL, CITY OF NORFOLK  
CONTRACT UPC #99525

CONTRACT UPC: 99525  
SUB-PROJECT UPC: 100536

**BR-GR SUMMARY**

LOC. #	BR. #	BRIDGE OVER	BR-GR-17D		BR-GR-20B		BR-GR-31	
			TY 1	TY 2	TY 1	TY 2	TY 1	TY 2
1-1	2868	Little Creek Rd.	-	-	-	1		
	2877	Granby St.	-	-	-	-		
	2889	New Gate Ave	-	1	-	-		
	2895	Mason Creek (Water Br.)	1	1	-	-		
	?	Bay View Blvd	1	1	-	-		
	2893	?	-	-	-	-		
	2836	Oats Creek (and Bay Ave)	1	1	-	-		
	2813	First View St.	1	1	-	-		
	?	Mason Creek Rd.	-	-	-	-		
	2897	4TH View	1	1	-	-		
	?	Willoughby	1	1	-	-		
	?	13TH View St.	1	1	-	-		
1-15	2900	HRBT	1	-	-	-		
2-1	2868	Little Creek Rd.	-	-	-	1	-	-
2-2	2877	Granby St.	-	-	-	-	-	1
	2889	New Gate Ave	1	1	-	-	-	1
	2895	Mason Creek (Water Br.)	1	1	-	-	-	-
	?	Bay View Blvd	1	1	-	-	-	-
	2893	?	1	1	-	-	-	-
	2836	Oats Creek (and Bay Ave)	1	1	-	-	-	-
	2813	First View St.	1	1	-	-	-	-
	?	Mason Creek Rd.	1	1	-	-	-	-
	2897	4TH View	1	1	-	-	-	-
	?	Willoughby	1	1	-	-	-	-
	?	13TH View St.	1	1	-	-	-	-
	2900	HRBT	1	-	-	-	-	-
	2882	13th View St.	1	1	-	-		
	2884	Willoughby Spit (Water Br.)	1	1	-	-		
	2898	4th View St.	1	1	-	-		
	2805	Mason Creek Rd	1	1	-	-		
	2821	First View St.	1	1	-	-		
	2844	Oasts Creek / Bay Ave.	1	1	-	-		
	2894	?	-	-	-	-		
	2892	Bay View Blvd.	-	-	-	-		
	?	Mason Creek (Water Br.)	-	-	-	-		
	2890	New Gate Ave.	1	1	-	-		
	2873	I-564	-	-	1	1		
	2867	Little Creek Rd.	-	-	1	-		
	2882	13th View St.	1	1	-	-		
	2884	Willoughby Spit (Water Br.)	1	1	-	-		
	2898	4th View St.	1	1	-	-		
	2805	Mason Creek Rd	1	1	-	-		
	2821	First View St.	1	1	-	-		
	2844	Oasts Creek / Bay Ave.	1	1	-	-		
	2894	?	1	1	-	-		
	2892	Bay View Blvd.	1	1	-	-		
	?	Mason Creek (Water Br.)	-	-	-	-		
	2890	New Gate Ave.	1	1	-	-		
4-21	2873	I-564	-	-	1	-		
4-21	2867	Little Creek Rd.	-	-	1	-		
5-2	?	Ramp from Granby St.	1	-	-	-		
5-3	?	Ramp from Granby St.	1	-	-	-		
5-4	?	Ramp to Bay Ave.,	-	1	-	-		
5-5	?	Ramp to Bay Ave.,	-	1	-	-		
		<b>TOTAL</b>	<b>37</b>	<b>36</b>	<b>4</b>	<b>3</b>	<b>-</b>	<b>2</b>