

2015 Mini, Small, Medium and Large Estimates

Estimate	
mini	<2 days
small	2 - 5 days
medium	1 - 2 weeks
large	2 - 4 weeks
extensive	> 4 weeks
nc	No charge
no est	Not estimated yet

Do for 6.8

Cost estimate includes unit testing but not alpha, beta and acceptance testing or fixing.
 7/12/03 - Est. Cost changed to reflect the cost of fixing during testing. Does not include testing.

Bucket Symbols		Notes Symbols	
TR	Superstructure - Truss	TF	Task Force Approved
GFS	Superstructure - GFS	LR	Long Range
TFD	Superstructure - TF Direction	SL	Short Listed by TAG
UI	Superstructure - UI		
TI	Superstructure - Timber		
PT	Superstructure - Post Tensioning		
3D	Superstructure - 3-D Analysis		
OFM	Substructure - Original Functionality Missing		
GR	Substructure - Graphics		
RE	Reports		
AT	Administrative Tools		
CU	Culvert		
NET	.NET		
M	Maintenance		

Enhancement Category	Version	Incident	Bucket Category	Estimate	Est. Cost	Date Submitted	Notes	Benefits	Subject
Wizard		162	Enhancement	small	6500		SL 7/04	Both	Improve Point of Interest data entry to make it more efficient (add wizard)
Library		239	Enhancement	medium	13000			Both	Library Explorer - no tree item menu available using right mouse click
Useability		844	Cosmetic	small	6500			Both	Data validation message formatting -- decimal places shown
Schematic		858	Enhancement	small	6500	3/15/99		Both	Profile View: Bottom Cover PL. is showing in the schematic, but it isn't called out in the text (size/description)
Schematic		1149	Enhancement	mini	2600			Both	Schematic Profile View - Hinge locations not available
Useability		1208	Enhancement	small	6500	6/12/99		BrR	Printing of structure rating results from the Bridge Explorer
Useability		1232	Change Request	large	26000	6/22/99		Both	Window Configuration -- resizing columns when windows open
Useability		1364	Enhancement	medium	13000	8/9/99		Both	Height of Rows
Useability		1375	Enhancement	medium	13000	8/10/99		Both	diaphragm wizard--possible to highlight entire bay and delete at once, rather than line-by-line?
Useability		1411	Enhancement	small	6500			Both	Profile schematic does not show steel girder profile beyond the CL brg.
Behavior		1445	Enhancement	mini	2600	8/23/99		Both	Option to saving before running - add to preferences
Useability		1505	Change Request	small	6500	9/21/99		Both	Load Case Description -- Virtis load case name not used in Analysis Results window
Useability		1685	Enhancement	medium	13000	11/8/99		Both	BWS Tree collapses when checking out structure definition - save status of tree to file
Technical		1748	Enhancement	medium	13000	11/22/99		Both	Stress Limit - allowable slab compression -- need to associate deck concrete
Useability		1800	Enhancement	small	6500	11/29/99		Both	Just default stress limit range to the span length
Technical		1850	Enhancement	small	6500	12/2/99		BrD	Live Load Distribution (LRFD) -- Slab Bridge -- calculate button
Technical		1865	Enhancement	no est	no est	12/2/99		Both	Strand Hold Down Devices
Technical		1923	Enhancement	no est	no est			BrR	Spec check detail for rating factor computations
Useability		1935	Enhancement	no est	no est			Both	Rebar Sizes - add to library including square bars
Useability		2178	Enhancement	small	6500	1/11/00		Both	Point of Interest description -- add description to poi
Technical		2183	Enhancement	small	6500	1/12/00		Both	Add a table to store parameters
Technical		2190	Enhancement	large	26000	1/13/00		Both	SHEAR REINFORCEMENT RANGES -- symmetric option
Useability		2406	Enhancement	mini	2600	2/27/00		Both	Time of analysis -- default to service life
Useability		2531	Enhancement	small	6500	3/17/00		Both	Drag and Drop: Enhancement--scroll down tree when dragging
Technical		2569	Enhancement	Scope Req'd	no est	3/22/00		Both	Linking engine error to GUI windows
Technical		2656	Enhancement	mini	2600	5/3/00		BrR	Load Case Description -- R/C
Useability		2697	Enhancement	mini	2600	5/22/00		BrR	LL Distribution Factors Compute from Typ Section Details window - Add details window
Useability		2704	Enhancement	no est	no est			BrR	Enhancement Request - How Do I create a folder based on multiple routes
Output		2711	RE	medium	13000	5/25/00		Both	Enhancement Request - Reports
Useability		2726	Enhancement		#N/A			BrR	Getting rating results that were not asked for
Useability		2732	Enhancement	medium	13000	6/6/00		Both	Need a New Parapet GUI (a more general parapet definition)
Technical		2737	Enhancement	small	6500		SL 7/02	BrD	AASHTO LL deflection control option (LRFD)

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Useability		2754	Enhancement	medium	13000	6/23/00		BrD	Vehicle Scale Factor for LRFD Fatigue Truck
Technical		2817	Enhancement	small	6500	8/25/00		Both	Metric Reinforcing Steel - add hard metric bars to db
Useability		2837	Enhancement	medium	13000	9/14/00		Both	Preview Model Enhancement-one button ability to see struc typ sec, framing plan from Bridge Explorer or BWS
Useability		2839	Enhancement	small	6500	9/14/00		Both	Reporting of Section Properties-maybe add graph of I or S so user can see where section changes
Technical		2847	Enhancement	medium	13000	9/15/00		BrR	Display warning messages issued within BRASS LFD output in a window in Virtis
Useability		2848	Enhancement	large	26000	9/18/00		Both	Analysis Chart Enhancements-envelope of max LL, graph sum of individual DL's
Useability		2876	Enhancement	small	6500	10/4/00		Both	Enhancement Request - Bridge Explorer desktop - add 8 more columns from Pontis
Technical		2958	Enhancement	small	6500			Both	Timber Enhancement - Increase DF, mark stringer as broken
Useability		2967	Enhancement	small	6500	11/15/00		Both	Change Folder from Private to Public
Technical		2969	Enhancement	small	6500	11/15/00	SL 7/02	Both	Distribution Factor Manipulations (without checking out the bridge) (Use scale factor)
Useability		2987	Enhancement	mini	2600	11/21/00		Both	Enhance Tabular Reports window to allow selectioptn of columns
Useability		3017	Enhancement	small	6500			BrD	LRFD Analysis (Change validate to scan for largest end distance)
Useability		3051	Enhancement	mini	2600	7/6/01		Both	Change "Member Alt Types" to "Member Alt Types - Tree Display Options" on the Member Alt window
Useability		3075	Enhancement	no est	no est			Both	Analysis Progress Dialog needs a filter for the warnings
Useability		3093	Enhancement	large	26000	2/5/01		BrR	Add Report Tool for ASD analysis
Useability		3095	Enhancement	small	6500	2/5/01		Both	Timber Framing Plan Detail - make the window larger and the controls expand with the window
Useability		3150	Enhancement	medium	13000	3/6/01		Both	Printing Analysis Results - Print Preview printer setup
Useability		3151	Enhancement	medium	13000	3/6/01		Both	Printer Setup - Landscape - Save printer properties for each printable object in Virtis/Opis
Useability		3153	Enhancement	large	26000			BrR	A field for user to control if fatigue should be considered in the controlling rating
Technical		3172	Enhancement	no est	no est			BrD	P/S design tool will harp strands through void
Useability		3208	Enhancement	no est	no est	5/1/01		Both	Analysis Progress Window - Print Selection
Useability		3244	Enhancement	no est	no est			Both	Warn users when a value is changed that affects computed values
Technical		3253	Enhancement	mini	2600		SL 6/09	Both	Additional P/S Shape Window Validation
Technical		3264	Enhancement	small	6500	12/5/00		Both	Add user validation indicator to bridge and perhaps structure defs and member alts.
Technical		3268	Enhancement	medium	13000	12/5/00		BrR	Add warnings to Virtis if spec-checks fail
Useability		3270	Enhancement	medium	13000	7/6/01		Both	Change the schematic toolbar button to display a list of possible schematics
Useability		3274	Enhancement	small	6500			Both	Need validation for P/S beam shapes windows
Useability		3282	Enhancement	small	6500			Both	Need a dialog for controlling the event history
Useability		3411	Enhancement	mini	2600			Both	Pedestrian rail base
Technical		3425	Enhancement	no est	no est			Both	Provide wire mesh shear reinforcement for PS boxes
Useability		3511	Enhancement	large	26000			Both	4.1 Beta 2: BWS Report Tool - Restructure window similar to Windows Explorer
Technical		3550	Enhancement	small	6500			BrD	Prestress Design Tool Distribution Factors - compute based on lever rule
Technical		3584	Enhancement	no est	no est			BrR	Parabolic Haunch Bottom Slab Thickness Variation
Useability		3608	Enhancement	no est	no est			Both	Add Sorting/Finding/Filtering Structure Types with File Properties
Useability		3609	AT	medium	13000		SL 7/02	Both	Configuration - Sorting by Users ID
Useability		3658	Enhancement	small	6500			Both	Make New Member Alternative Dialog easier to use
Useability		3659	Enhancement	small	6500			Both	Add a button to the Find Bridge dialog to add the result set bridges to the current folder
Technical		3781	Enhancement	no est	no est			BrD	Temporary construction loads (load staging) are not handled
Useability		3838	Enhancement	medium	13000			Both	Default load cases should be configurable in the Configuration Browser
Technical		3840	Enhancement	small	6500			BrR	Put BRASS default shear method to use in Configuration Browser
Schematic		3846	Enhancement	large	26000			Both	Schematic View of girder details at section changes
Useability		3854	Enhancement	Scope Reqd	no est			Both	Transverse Stiffener Wizard - input multiple groups of equal spacing
Technical		3858	Enhancement	Scope Reqd	no est			Both	Differ Support Conditions with Construction Stages
Technical		3859	Enhancement	Scope Reqd	no est			BrR	Different Dist. Factors for Inv. And Operating
Useability		3860	Enhancement	large	26000			Both	Longitudinal Symmetry Option
Technical		3864	Enhancement	large	26000			Both	Define a Member Alt as a channel
Technical		3866	Enhancement	Scope Reqd	no est			Both	Upside down channel shape (precast.prestressed)
Useability		3867	Enhancement	Scope Reqd	no est			Both	Chart Enhancement
Useability		3881	Enhancement	large	26000			Both	Report Writer Enhancement - add analysis output like code checks & section properties to report
Technical		3906	New Feature	Scope Reqd	no est			Both	Add Bearing Stiffeners for Floorbeams
Technical		3996	Enhancement	Scope Reqd	no est			Both	Allow debonding of PS strands in the center of a span
Useability		4057	Enhancement	large	26000			Both	BWS Report Tool flexibility - add ability to select just 1 mbr alt or structure def for report
Useability		4238	Enhancement	medium	13000			Both	Explorer Window Columns - choose which to display and where to position
Useability		4250	Enhancement	mini	2600			Both	Compute U Beam Interior Diaphragm Load (Box beams also)
Technical		4315	Enhancement	Scope Reqd	no est	2/4/03		BrD	Slab thickness used in Distribution Factors
Useability		4362	AT	medium	13000		SL 7/04	Both	Save Analysis Events - Location
Technical		4403	Enhancement	small	6500		SL 7/04	Both	Stiffener or Frame Connector Plate-Add ability to enter diaphragm conn plates that aren't analyzed as stiffeners
Technical		4460	Enhancement	Scope Reqd	no est			BrR	Add Timber Stability Factor (Virtis and Madero)
Useability		4465	Enhancement	small	6500			BrR	BWS Tree - nails appear after deck window
Useability		4468	Enhancement	medium	13000		SL 7/04	BrR	Add deck rating to Bridge Routing Results and Pontis Rating windows
Technical		4480	Enhancement	medium	13000			BrR	Incorrect span calculation for timber deck
Useability		4516	Enhancement	small	6500			Both	Library Import and Export - show progress meter in window

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Useability		4520	Enhancement	mini	2600			Both	Show member def assigned to Str Mem Alt and FB Mem Alt in the tree
Useability		4530	Enhancement	mini	2600			Both	Graph header needs to be more descriptive.
Technical		4678	Change Request	small	6500			BrR	5.0.0 - RC tee beam gets zero rating for shear at support
Technical		4686	Enhancement	no est	no est	7/14/03		Both	Allow PS U-beams with vertical legs to have harped strands
Useability		4689	Enhancement	no est	no est	7/16/03		Both	Indicate in Rating Results window if the rating analysis did not run to completion for a mbr alt
Useability		4729	Enhancement	small	6500			Both	Show calculations for live load distribution factors and effective flange widths.
Schematic		4814	Enhancement	small	6500			Both	Show hold-down pt on p/s profile schematic
Useability		4820	Enhancement	medium	13000			Both	Export warnings filter needed
Useability		4854	Enhancement	small	6500			Both	PS Value System Defaults
Output		4899	Enhancement	mini	2600			BrR	Cannot turn on intermediate output for P/S moment capacity calculations
Useability		4900	Enhancement	small	6500			Both	Cleanup utility for events
Schematic		4941	Enhancement	medium	13000			BrR	Improve floor system framing plan schematic.
Useability		4942	Enhancement	small	6500			BrR	Enhance Stringer Member window with span lengths info.
Useability		4943	Enhancement	small	6500			BrR	Validate stringer span lengths info in definition to agree with stringer member alternative.
Useability		4979	Enhancement	no est	no est	2/2/04		BrR	Rating Factor Failure not in Results Graph
Useability		5025	Enhancement	mini	2600			Both	Move the Transfer This License" function from the Tools menu onto the login dialog."
Useability		5273	Enhancement	no est	no est			Both	Let users see more significant digits in data computed by Virtis/Opis
Useability		5275	Enhancement	no est	no est			Both	Enhancements to Member Loads window
Useability		5391	Enhancement	medium	13000			Both	RC Slab Compute Button for LFD & LRFD Distribution Factors
Useability		5392	Enhancement	large	26000			Both	RC Symmetry Needed
Useability		5393	Enhancement	large	26000			Both	RC Girder Profile – Reinforcement – Distance to steel
Technical		5400	Enhancement	medium	13000			Both	Allow Bar Mark Definitions to have more than 1 hump
Useability		5410	Enhancement	small	6500			Both	Input sched reinf from centerline of beam not from edge
Useability		5492	Enhancement	no est	no est			Both	Printing Controls Needed - fit to one or more pages wide and tall
Technical		5742	Enhancement	no est	no est	12/30/04		BrD Sub	Enhancement for shaft isn't centered or symmetrical on the footing
Output		5797	RE	medium	13000	1/13/05	SL 6/09	BrD Sub	Tabular Reports
Useability		5809	Enhancement	small	6500	1/14/05	SL 6/09	BrD Sub	Provide option to get skew from struct def
Output		5830	RE	no est	no est	1/21/05		BrD Sub	wind data: (calculations)
Technical		5864	OFM	no est	no est	1/25/05		BrD Sub	Creep Loads can not be entered
Technical		5904	Enhancement	large	26000			Both	Vary web thickness in schedule based rc
Useability		5905	Enhancement	medium	13000			Both	Schedule based rc - compute tributary width
Useability		5935	Enhancement	small	6500			Both	Improve Wizard to Apply Different Stiffeners at Bearing Diaphragms
Technical		6037	Enhancement	medium	13000	2/10/05	SL 6/09	BrD Sub	Minimize time of superstructure analysis when launched from pier analysis
Output		6048	Enhancement	no est	no est	2/15/05		Both	XML Missing Right Overhang
Useability		6053	Enhancement	mini	2600			Both	Report Tool Returning ID Number and not the Name
Technical		6131	Enhancement	small	6500	3/10/05		BrR	User shouldn't have to specify PS I Beam shape for Virtis to compute distribution factors
Useability		6240	Enhancement	small	6500			Both	Start - Programs - AASHTOWARE
Output		6269	RE	small	6500	4/4/05		BrD Sub	Add eccentricity to LLReactionDetails
Useability		6295	Enhancement	small	6500			Both	Improve handling of changes to ranges
Useability		6308	Enhancement	small	6500			Both	Revise the Configuration Browser
Schematic		6365	GR	small	6500	4/29/05		BrD Sub	Column Geometry/Wall Shaft Geometry window for varying sections
Useability		6376	Enhancement	small	6500			Both	Copy and paste column and row headers with the results graph data.
Useability		6384	Enhancement	small	6500			Both	Need default file name during bridge export
Useability		6510	Enhancement	small	6500			Both	Add ability to rate with and without wearing surface in one analysis run
Useability		6535	GFS	no est	no est	6/24/05		BrR	Girder-floorbeam system problems
Useability		6548	Enhancement	small	6500			Both	Global preferences
Import		6570	Enhancement	Scope Req'd	no est	7/21/05		BrR	BRASS Import
Miss Function		6608	OFM	no est	no est	8/15/05		BrD Sub	Proposed Addition - Options for Analyze button - Super and Sub
Useability		6626	Enhancement	small	6500			Both	Virginia DOT training: make stiffener/stirrup ranges start distance & spacing the same units
Import		6699	Enhancement	no est	no est	9/16/05		BrR	Import does not work for a timber deck on a steel beam
Technical		6700	Enhancement	small	6500		SL 7/06	BrR	Add BRASS engine data for user to pick how to compute shear capacity in reinforced concrete
Technical		6729	Enhancement	large	26000		SL 7/06	Both	Prestress Design with various strand pulls
Technical		6766	TR	medium	13000		SL 7/06	BrR	Truss Command - Member Load
Technical		6767	TR	medium	13000		SL 7/06	BrR	Truss Command - Additional Self Load
Useability		6819	Enhancement	small	6500			BrR	NSG enhancement: copy wheel set from each axle to another axle
Useability		6827	Enhancement	Scope Req'd	no est			BrR	Allow different vehicles for Inv/Op rating in NSG analysis
Useability		6906	Enhancement	large	26000			Both	Add engine warnings/messages to results object; Display in GUI
Technical		6950	Enhancement	large	26000			Both	Revise haunch geometry for PS U beams
Useability		6988	Enhancement	small	6500		SL 7/06	BrR	Setting Allowable Fatigue Stress
Useability		7109	Enhancement	small	6500		SL 7/06	Both	Remove Girder Concrete entry from Beam Details window
Useability		7193	Enhancement	medium	13000			BrR	LFD Factors-allow blank values to considered as unchanged from AASHTO instead of as 0
Useability		7198	Enhancement	Scope Req'd	no est	3/21/06		Both	Update the jacking stress ratio automatically for user

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Technical		7255	Enhancement	no est	no est	4/14/06		BrD	How to override Allowable Deflection Denominator from 800 to 1000
Useability		7293	AT	small	6500			Both	Make it easier to Re-Register the Software
Useability		7417	Enhancement	large	26000		SL 7/06	BrR	NSG enhancement - store influence surfaces (lines for 2D) for future use
Useability		7429	Enhancement	medium	13000			BrR	Compute LFD Dist. Factor for Non-Splayed Girders in a Splayed Girder System
Useability		7440	AT	small	6500		SL 7/06	Both	Expand/Collapse Branch in Library Explorer
Wizard		7445	Enhancement	medium	13000			Both	Wizard to Create Superstructures and Superstructure Alts
Useability		7461	GFS	small	6500	6/21/06		BrR	Compute From Typical Section button should be available to just compute Std effective flange width for 2-girder system
Output		7471	RE	medium	13000	6/27/06		BrD	Unable to generate LRFD flexure analysis summary and shear analysis summary for RC bridge
Useability		7510	Enhancement	large	26000	7/20/06		Both	response file for the installer
Useability		7538	Enhancement	Scope reqd	no est	8/4/06	LR	BrD	UG 2006 - Design tool for P/S beam capacity
Useability		7539	Enhancement	Scope reqd	no est	8/4/06	LR	BrD	UG 2006 - Steel Design
Useability		7540	Enhancement	Scope reqd	no est	8/4/06	LR	BrD	UG 2006 - Shear stirrup design for P/S beams
Useability		7541	Enhancement	Scope reqd	no est	8/4/06	LR	BrD	UG 2006 - Stiffener spacing design
Schematic		7543	Enhancement	small	6500	8/7/06		BrD Sub	Shrinkage in 3D schematic is misleading
Schematic		7544	Enhancement	small	6500	8/7/06		BrD Sub	Don't show forces for rigid links in the 3D schematic
Useability		7545	GR	medium	13000	8/7/06		BrD Sub	Save 3D schematic settings
Useability		7608	TR	medium	13000	9/13/06		BrR	Truss-suggestion: add ability to code "I" shaped truss members as built up sections
Technical		7672	TFD	small	6500	10/20/06		Both	Traffic Tab Missing Design ADT Field
Technical		7673	TFD	small	6500	10/20/06		Both	Traffic Tab Missing Truck Fraction Multiplier
Useability		7680	TFD	medium	13000	10/26/06		Both	The name of the engine files created by NSG analysis may need to append to the EngineFiles.LST
Library		7715	Enhancement	mini	2600	12/5/06	SL 6/09	BrR	Phi Factor for P/S Negative Moment Capacity
Wizard		7718	Enhancement	medium	13000	12/6/06		Both	Superstructure Definition Wizard Enhancements
Technical		7761	Enhancement	medium	13000	1/9/07		Both	Prestressed Concrete I-Beam Wheel Distribution Factor Computation Problem
Useability		7846	Enhancement	no est	no est	2/19/07		Both	RC Frame Example - add one to sample database
Useability		7974	M	small	6500	6/26/07		BrR	Rating Method selected for Prestressed
Output		7976	RE	Scope Reqd	no est	6/26/07		BrR	As Requested in Rating Analysis Results
Useability		8004	GFS	small	6500	7/11/07		Both	Copy member loads to another member
Library		8110	UI	small	6500	8/28/07	SL 6/09	Both	Library tree items
Output		8120	RE	no est	no est	9/5/07		BrD	Report wish list for LRFD reports
Technical		8130	TR	no est	no est	9/7/07		BrR	Virtis Truss - Unsupported member cross section
Schematic		8143	GFS	no est	no est	9/12/07		BrR	GFS Girder Member Schematic Shows Stringer Diaphragms
Behavior		8177	TR	no est	no est	10/1/07		BrR	Prevent analysis of a truss from the Superstructure Definition on the model tree
Useability		8179	TR	no est	no est	10/1/07		BrR	GFS/TFSS - Provide a way to link a Stringer Member to another identical Stringer Member.
Useability		8180	TR	no est	no est	10/1/07		BrR	GFS/TFSS - Provide a way to link a Floorbeam Member to another identical Floorbeam Member.
Output		8204	RE	no est	no est	10/11/07		BrR	Reports from the Toolbar
Technical		8230	Enhancement	medium	13000	10/22/07	SL 6/09	BrD Sub	Add option to ignore compression reinforcement in the beam
Useability		8245	UI	no est	no est	10/30/07		Both	4 Prestress Input Enhancements Needed
Useability		8267	Enhancement	no est	no est	11/13/07		Both	System Defaults Need to be Added
Technical		8323	Enhancement	large	no est	12/4/07	SL 6/09	BrD	Axial Loads due to Temperature are not in load combinations or Spec. Checking reports
Useability		8366	AT	no est	no est	12/11/07		Both	Registration of dll's and registry information is version dependent. (enhancement)
Useability		8383	Enhancement	no est	no est	12/18/07		BrD	Engine Tab Options for Opis LRFD Properties
Miss Function		8433	OFM	large	26000	1/22/08		BrD Sub	Spec check of individual pier components
Schematic		8437	GR	no est	no est	1/23/08		BrD Sub	Foundation Geometry, Pile
Output		8443	RE	no est	no est	1/24/08		BrD	Dead Load Camber Summary Report
Miss Function		8455	OFM	no est	no est	2/4/08		BrD Sub	Pipe Pile Substructure Option
Output		8513	RE	no est	no est	3/19/08		BrD	Opis RC LRFD superstructure engine - provide report of dead load calcs
Useability		8534	UI	no est	no est	4/2/08		BrD Sub	OPIS SUB: Bridge Explorer Tree
Useability		8536	UI	no est	no est	4/2/08		BrD Sub	OPIS SUB: Vehicles tab for LRFD Substructure Design
Useability		8570	Enhancement	Scope Reqd	no est	4/16/08		BrR	Truss Will Not Rate from Bridge Explorer Unless it Has Been Checked Out
Schematic		8581	GR	no est	no est	4/22/08		BrD Sub	Schematic of pier reinforcement
Miss Function		8600	OFM	no est	no est	4/24/08		BrD Sub	Substructure Wizards Needed
Output		8624	Enhancement	no est	no est	4/30/08		Both	Reports
Useability		8625	Enhancement	mini	2600	4/30/08		Both	Reinforcement - add square bar equivalents to the help.
Technical		8642	Enhancement	Scope Reqd	no est	5/8/08		Both	Stage 1 Reaction Error for Continuous PS I-beams.
Useability		8644	TR	large	26000	5/9/08		BrR	Truss Input from STADD
Useability		8697	Enhancement	mini	2600	5/30/08		BrD	Bridge Layout Wizard, Validation Error - Add Route to the wizard
Useability		8713	Enhancement	no est	no est	6/3/08		BrD Sub	Locking Superstructure when Substructure is Being Entered
Technical		8721	TR	no est	no est	6/4/08		BrR	TRUSS/FLOOR SYSTEMS: Deck Profile - Compute from Cross Section
Useability		8759	Enhancement	no est	no est	6/25/08		BrD Sub	Duplicate Function in Reinforcement Tabs
Schematic		8760	GR	no est	no est	6/25/08		BrD Sub	3D Schematic Doesn't Show Piling
Useability		8766	GR	small	6500	6/26/08		BrD Sub	3-D schematic view properties
Output		8782	Enhancement	small	6500	7/7/08		BrD Sub	5.7.3.2

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Useability		8818	UI	Scope Reqd	no est		8/6/08		Both	enhancement for graphical user interface based on presentation by George Colgrove in vobug 2008
Import		8823	TR	Scope Reqd	no est		8/7/08		BrR	Truss Import Tool
Technical		8845	Enhancement	large	26000		8/12/08		BrR	NSG will not run on Adjacent PS Box bridge with no deck.
Technical		8848	Enhancement	large	26000		8/13/08	SL 6/09	Both	Library Properties - PS with Radius Fillet
Useability		8849	Enhancement	small	6500		8/14/08	SL 6/09	Both	Unit Weight PS Sections Library
Useability		8858	GFS	no est	no est		8/20/08		BrR	Girder-Floorbeam Problems
Output		8874	RE	no est	no est		9/11/08		BrD	OPIS P/S Girder, BRASS LRFD, Concrete Stresses uncoupled from Prestress.
Output		8894	RE	no est	no est		9/30/08		Both	Report Tool Sorting
Technical		8906	Enhancement	large	26000		10/24/08	SL 6/09	Both	Additional Dead Loads (Studs, stiffeners, splice plates)
Technical		8935	TFD	small	6500		12/5/08	TF	BrR	Determination of single lane loaded
Technical		8949	TI	no est	no est		12/23/08		BrR	alt timber loading for deck- where did it go????
Output		9038	Enhancement	small	6500		4/16/09		BrR	Unsymmetrical concurrent forces for symmetrical truss
Output		9175	TR	medium	13000		5/20/09		BrR	concurrent force report- multiple trucks
Output		9176	TR	small	6500		5/20/09		BrR	enhancement- computing maximum shear on the x and y planes
Useability		9416	Enhancement	no est	no est		8/6/09		Both	Support harped and straight debonded strand configuration for PS U shape
Useability		9421	TI	no est	no est		8/11/09		BrR	Increase max number of axles in a vehicle in Madero engine
Output		9422	M	small	6500		8/11/09		BrR	forces in PanelPointMaxForces & PanelPointConcurrentForces files
Useability		9427	AT	Scope Reqd	no est		8/13/09		Both	Virtis Opus Remote Installation
Useability		9428	Enhancement	Scope Reqd	no est		8/13/09		Both	Video courses for fundamental training of Viris/Opis
Useability		9452	TI	no est	no est		8/21/09		BrR	timber glue-lam beams
Technical		9458	M	no est	no est		8/21/09		BrR	Live Loads - AASHTO Manual for Condition Evaluation Spec 6.4.4.2.1
Useability		9513	Enhancement	Scope Reqd	no est		10/1/09		Both	modulus of rupture choices
Useability		9515	UI	small	6500		10/2/09		BrD	DLA windows need improving
Technical		9522	Enhancement	Scope Reqd	no est		10/7/09		BrD	non linear yield line method for slab bridges.
Useability		9532	Enhancement	no est	no est		10/16/09		BrR	Virtis to BRASS seems to ignore median definition
Useability		9589	AT	small	6500		12/8/09		Both	Modification to Multimedia file selection default
Technical		9638	GFS	no est	no est		2/9/10		BrR	GFS Systems: Girders rating extremely low. Virtis appears not to be analyzing girder as a GFS system where the floorbeams
Useability		9655	Enhancement	medium	13000		2/24/10		Both	POI generator
Wizard		9713	Enhancement	medium	13000		4/7/10		BrD Sub	Pile Pattern Templates
Useability		9832	AT	Scope Reqd	no est		4/29/10		Both	Delete Data Sources from Virtis Opus - Enhancement Request
Useability		9948	M	small	6500		5/11/10		Both	Haunch Profile Panel To Be Improved
Technical		9964	3D	medium	13000		5/12/10	SL 4/11	BrR	NSG distribution factor
Miss Function		10107	OFM	Scope Reqd	no est		7/8/10		BrD Sub	Timber Pile
Useability		10121	M	no est	no est		7/14/10		Both	Virtis LRFR gives error
Behavior		10179	Enhancement	small	6500		8/4/10	SL 4/11	Both	Multiple windows in Specification Check Window
Technical		10221	Enhancement	no est	no est		8/26/10		Both	Bent rebar issue #2 - enhancement request
Useability		10223	UI	small	6500		8/27/10		Both	Selecting trucks in the Analysis Settings Dialog
Technical		10315	Enhancement	Scope Reqd	no est		12/1/10		BrR	Generic Deck is not allowing a rating to be done for NSG
Wizard		10332	M	medium	13000		12/17/10		BrD	Unable to retrieve vehicles for Shear Stud Wizard.
Useability		10371	GR	small	6500		1/19/11		BrD Sub	Column Reinforcement Screen
Useability		10381	TR	medium	13000		1/21/11		BrR	Support symmetry for Trusses
Useability		10392	GFS	large	26000		1/25/11		BrR	Floor Line Superstructure Floorbeam Fails to Run in Virtis 6.2
Useability		10471	AT	small	6500		2/25/11		Both	Adding database conversion option to setup
Output		10481	RE	Scope Reqd	no est		2/28/11		Both	Analysis results be put in table form
Technical		10503	TR,M	large	26000		3/1/11		BrR	Eccentric Axial Rating for Truss Member in Virtis
Useability		10681	Enhancement	Scope Reqd	no est		4/12/11		BrD	Designing for a permit vehicle using Service III limit state
Output		10737	RE	Scope Reqd	no est		4/13/11		BrR	Ratings for non controlling limit states are not shown
Useability		10743	Enhancement	medium	13000		4/13/11		Both	Ignoring the Rebar Development Length for Deep Section Provision
Useability		10933	M	Scope Reqd	no est		6/7/11		Both	Live Load Scale Factor not applied in rating
Wizard		11044	Enhancement	medium	13000		7/29/11		Both	PSC Shear Stirrup Wizard Problems
Technical		11047	Enhancement	large	26000		8/2/11		BrR	Enhance for Concrete Shear Reinforcement Capacity with LFR
Output		11050	RE	large	26000		8/3/11		BrR	Rating Results Table created in Explorer - Enhancement Request
Technical		11084	Enhancement	medium	13000		8/25/11	SL 5/12	BrR	Dist. Factor LRFR Stripped Lanes
Useability		11089	Enhancement	Scope Reqd	no est		9/1/11		BrR	Apparent AASHTO Engine LFD Moment Analysis Bug
Schematic		11117	UI	medium	13000		9/26/11		Both	Additional field for the vertical location of appurtenance
Useability		11128	Enhancement	small	6500		10/7/11		Both	Virtis Enhancement - Generate POI @ Stirrup Space Increase in Concrete Members
Wizard		11129	M	small	6500		10/7/11		Both	Virtis Enhancement: LLDF Computation for Non-splayed Girders
Useability		11147	UI	medium	13000		10/25/11		Both	Library / Agency Std. Gage Vehicle Problems
Output		11219	RE	large	26000		1/23/12		BrR	Virtis Output Enhancement
Technical		11220	Enhancement	medium	13000		1/23/12	SL 5/12	Both	Built-up Section Enhancement
Output		11232	RE	Scope Reqd	no est		2/1/12		Both	Reports Enhancement Request
Technical		11361	Enhancement	large	26000		4/18/12		Both	Transforming girder reinforcement

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Useability		11367	Enhancement	large	26000	4/20/12		BrR	VIRTIS calculation of C for FB with Section Loss
Useability		11396	M	large	26000	5/1/12		Both	Bridge Exchange Errors
Useability		11407	Enhancement	large	26000	5/3/12		BrR	Option for User Defined Cb in AASHTO LFD
Useability		11422	UI	mini	2600	5/8/12		Both	Any xml file, Validate window
Useability		11458	TR	large	26000	5/15/12	SL 5/12	BrR	Truss Builtup Member Revision
Useability		11551	Enhancement	no est	no est	5/30/12		Both	Spec Check does not check for Strength II when chosen
Miss Function		11566	TR	large	26000	5/30/12	SL 5/12	BrR	Enhancement request - Truss Supports Deck
Useability		11585	3D	large	26000	5/31/12		Both	Cross Frames member that made Double Angles
Useability		11586	UI	small	6500	5/31/12		Both	XFrames within Diaphragm Wizard
Useability		11618	CU	large	26000	6/5/12		Both	Steel bars along the length of culvert
Technical		11682	Enhancement	medium	13000	7/2/12		BrR	Capacity should be limited to Moment at first yield for girders with Fy <30 ksi
Useability		11706	CU	large	26000	7/12/12		BrD	Culvert Design Tool - Various Issues
Technical		11719	CU	medium	13000	7/16/12		Both	Culvert - Bi-axial flexure
Useability		11720	GFS	small	6500	7/16/12		BrR	Add 2 parameters into the GUI for the calculation of the transverse load patterns
Technical		11770	TR	large	26000	7/30/12		BrR	Enhancement of Truss Member and Cross Section Inputs
Useability		11775	3D	large	26000	8/1/12	SL 5/14	Both	Would like ability to run a spec check from a previous 3D bridge analysis
Output		11815	RE	small	6500	8/9/12		BrR	Detailed Rating Report using BWS Report writer
Miss Function		11831	OFM	Scope Req'd	no est	8/10/12		BrD	Drilled Shaft Issues
Useability		11837	Enhancement	mini	2600	8/13/12		BrD	Add default values of k and E50 to help file
Behavior		11838	NET,UI	medium	13000	8/13/12		BrD	Units for soil parameters in Drilled Shaft
Useability		11863	TR	medium	13000	8/16/12	SL 5/13	BrR	Built-Up I Beam Member: No Provision For a Horizontal Back To back Dimension
Technical		11958	M	large	26000	10/5/12	SL 5/13	BrR	Rate for both positive and negative LL demand regardless of the sign of factored TOTAL demand
Output		11995	RE, CU	large	26000	10/29/12		Both	Culvert Reports - Member Moments, Shears and Axial Forces
Useability		11998	CU	large	26000	10/30/12		BrR	LRD Culvert Live Loading
Output	6.8	12091	CU,M	small	6500	12/6/12		BrR	STR-I limit state removed from box culvert analysis when permit vehicles only are specified
Wizard	6.8	12135	CU,M	medium	13000	1/14/13		Both	Bridge Alternative Wizard - Culvert
Technical		12168	Enhancement	medium	13000	2/1/13	SL 5/13	BrR	Traffic load placement for the narrow way bridges
Useability		12172	CU	large	26000	2/1/13	SL 5/13	Both	Culvert - Bent bar with hook
Useability		12200	UI	medium	13000	2/20/13	SL 5/13	Both	Support varying LFRD LL DF within a range
Technical		12202	CU	small	6500	2/20/13		Both	Bottom Slabs of Box Culverts
Useability		12222	UI	large	26000	3/7/13		Both	Wearing surface consideration/improvement in virtis
Technical		12341	TI	no est	no est	4/10/13		BrR	Madero engine: Locating max and min LL actions
Useability		12352	CU	large	26000	4/15/13		Both	Culvert: User-Defined Dead Load
Useability		12388	GFS	large	26000	4/25/13	SL 5/13	BrR	Fixed Ends on Floorbeams
Miss Function		12433	Enhancement	Scope Req'd	no est	5/3/13		Both	How to model precast, prestressed, rectangular beam with variable depth
Behavior		12467	Enhancement	small	6500	5/7/13		Both	Behavior of Shear Stirrup Wizard, after it generated the shear spacing
Useability		12469	Enhancement	small	6500	5/7/13		BrD Sub	Cancel Analysis Event
Useability		12471	Enhancement	large	26000	5/7/13	SL 5/14	Both	User defined materials and beam shapes
Schematic		12480	UI	medium	13000	5/8/13	SL 5/14	Both	Testing VI 11562 enhancement - Graphic is missing Point Supports
Wizard		12491	Enhancement	large	26000	5/8/13	SL 5/14	Both	Point Capacity Issue
Useability		12497	Enhancement	small	6500	5/8/13		BrR	LFD RC Slab Dist. Factor
Useability		12543	UI	medium	13000	5/20/13	SL 5/14	Both	Member Load not showing up in Window
Output		12559	RE	medium	13000	5/23/13		BrD	Enhancement request for reports/charts
Output		12562	Enhancement	small	6500	5/24/13	SL 5/14	Both	Clarification on LFR Culvert Output Requested
Technical		12608	M	large	26000	6/3/13	SL 5/14	Both	LFRD Culvert - Limit States
Output		12642	RE	medium	13000	6/7/13		BrD	Analysis Charts - Request for additional Critical Loads
Output		12655	Enhancement	small	6500	6/12/13		BrR	Rating Summary Report - % Span column missing
Wizard		12671	3D	small	6500	6/17/13		Both	Curved Steel Girder Diaphragm Wizard Improvement
Output		12715	RE	small	6500	6/26/13	SL 5/14	Both	Span length attribute should be added to "Girder Member"
Output		12716	RE	large	26000	6/26/13	SL 5/14	Both	Data withinin BWS report should reflect the values entered into the software
Useability		12748	UI	medium	13000	7/8/13	SL 5/14	Both	It's Difficult To Modified Entries in Girder Profile
Useability		12764	Enhancement	large	26000	7/12/13	SL 5/14	Both	Custom Section Properties Enhancement
Output		12818	RE	medium	13000	8/15/13	SL 5/14	Both	Lateral Deflections results are not listed "view analysis report"
Technical		BRDR-48	3D	large	26000	8/28/13	SL 5/14	BrR	3D-FEM Transverse Analysis for Roadway Widths from 18 to 20 Feet
Useability		BRDR-52	3D	small	6500	8/30/13		BrR	Curved Steel Girder Longer than 300 Feet
Library		BRDR-93	UI	medium	13000	10/16/13	SL 5/14	Both	Choose Steel Section Library Based on the Year of Publication
Technical		BRDR-97	Enhancement	small	6500	10/24/13	SL 5/14	Both	Support the MPF reduction due to the low ADTT
Useability		BRDR-114	TR	large	26000	11/19/13	SL 5/14	BrR	Analysis of Trusses
Useability		BRDR-115	UI	small	6500	11/19/13	SL 5/14	BrR	Stringer Unit Layout Names
Miss Function		BRDR-130	CU	large	26000	12/28/13	SL 5/14	Both	Culvert Module - Skewed Reinforcement
Output		BRDR-147	CU	small	6500	1/21/14		Both	Add code to culvert engine to generate an RTU file for regression testing.
Technical		BRDR-208	3D	medium	13000	3/13/14	SL 5/14	BrR	Limits of Shear Stiffener Spacing in Curved Steel LFR Engine

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Technical		BRDR-209	3D	medium	13000	3/13/14	SL 5/14	BrR	Shear Capacity of Curved Steel Girder for Internal Panels
Wizard		BRDR-213	Enhancement	small	6500	3/14/14	SL 5/14	Both	Use the average Kg to calculate the LLDF when Kg is different for the left side and right side of the node
Output		BRDR-227	Enhancement	small	6500	3/28/14		Both	Culvert Spec Check
Miss Function		BRDR-228	TI	Scope Req'd	no est	4/3/14	SL 5/14	Both	Timber Design and Rating Application
Useability		BRDR-242	Enhancement	large	26000	4/28/14	SL 4/15	Both	Schematic of the haunch for U beam is not consistent with normal practice in the NMDOT
Useability		BRDR-260	Enhancement	medium	13000	5/13/14	SL 4/15	Both	The diaphragms defined in the structure framing plan details also need to have the ability to have a user defined load case.
Technical		BRDR-263	3D	large	26000	5/14/14	SL 5/14	BrD	Add adjacent vehicles for a permit vehicle for LRFD Design Review for 3D Analysis
Technical		BRDR-264	3D	large	26000	5/15/14		Both	Fine Element Mesh Near Supports In 3D Analysis
Output	6.8	BRDR-269	RE	small	6500	5/13/14	SL 5/14	Both	Remove "Uniform Load Contraflexure Points" from view analysis report
Wizard		BRDR-274	CU,M	medium	13000	5/14/14		Both	Superstructure Wizard not working with Culvert
Wizard		BRDR-277	UI	small	6500	5/21/14		Both	Wizard will not delete UD POI in RC Slab
Behavior		BRDR-278	UI	Scope Req'd	no est	5/5/14		Both	Escape Key inconsistencies
Useability		BRDR-279	UI	small	6500	5/8/14		Both	Existing Column detail of ONE Pier could not be copied to ANOTHER Pier.
Useability		BRDR-283	Enhancement	large	26000	5/15/14	SL 5/14	Both	Request Enhancement for User Defined Lateral Stress at POI for Line Girder Analysis
Wizard		BRDR-284	3D	medium	13000	5/14/14	SL 5/14	Both	Request Wizard for laying out Lateral Bracing
Wizard		BRDR-285	3D	small	6500	5/14/14	SL 5/14	Both	Copy Lateral Bracing to another Bay needs to have an option for mirror to another bay
Useability		BRDR-288	UI	small	6500	5/22/14	SL 4/15	Both	Delete POI's by selecting several of them
Miss Function		BRDR-318	M	large	26000	7/11/14		Both	Shear reinforcement for Edge Beams in a slab system
Useability		BRDR-338	Enhancement	medium	13000	8/4/14		BrR	Pull ADT from BrM
Useability		BRDR-339	Enhancement	large	26000	8/4/14		BrR	Ability to select rating method for BrM Vehicles
Useability		BRDR-340	Enhancement	large	26000	8/4/14		BrR	Ability to add additional agency ratings to BrR / BrM link
Technical	6.8	BRDR-380	Enhancement	large	26000	9/2/14		Both	Replace stress-strain Compatibility with PCI equations
Technical		BRDR-381	Enhancement	medium	13000	9/2/14		Both	Add LFD/ LRFD capacity equations as an alternative to the strain compatibility method
Technical		BRDR-390	Enhancement	large	26000	9/8/14	SL 4/15	BrR	MBE 2011 should use axle weight on the bridge to compute permit LL factor
Technical		BRDR-393	Enhancement	small	6500	9/9/14	SL 4/15	Both	Mu used in calculation of 5.8.3.5
Useability		BRDR-439	Enhancement	medium	13000	10/2/14		Both	Ignore Shear not being Ignored
Useability	6.8	BRDR-452	UI,M	medium	13000	10/14/14		Both	Duplicate Bar Mark Definitions Allowed in Culvert
Useability		BRDR-466	Enhancement	large	26000	10/21/14		Both	Software takes long time (1 to 5hrs) to analyze MCB girder bridges.
Miss Function		BRDR-467	Enhancement	Scope Req'd	no est	10/21/14		Both	For MCB girder bridge, integral Abutment substructure is not getting linked with Superstructure
Technical	6.8	BRDR-499	M	large	26000	11/18/14		Both	LRFD 6th Edition 2013 Interim culvert LL distribution updates
Output		BRDR-503	Enhancement	medium	13000	11/19/14		BrR	Any Report for Culvert
Miss Function		BRDR-553	Enhancement	large	26000	2/19/15		Both	3D FEM - Vehicle Path analysis with hinges
Miss Function		BRDR-567	Enhancement	medium	13000	3/10/15	SL 4/15	Both	Request ability to add additional steel thickness for new design for weathering steel
Useability		BRDR-581	Enhancement	medium	13000	3/24/15	SL 4/15	BrR	Hinges in Girder floor systems
Schematic		BRDR-591	Enhancement	small	6500	4/6/15		Both	Display hinges in schematic
Output		BRDR-594	Enhancement	large	26000	4/20/15	SL 4/15	Both	Plotting the Lateral Moment
Useability		BRDR-596	Enhancement	medium	13000	4/20/15	SL 4/15	BrR	Connection Type Between Stringers and Floor Beam
Schematic		BRDR-601	Enhancement	medium	13000	4/30/15		Both	Add splice locations to the bridge schematic
Miss Function		BRDR-612	Enhancement	Scope Req'd	no est	5/14/15		Both	Dog-legged framing plan
Useability		BRDR-631	Enhancement	large	26000	6/2/15		Both	Square Rebar Bars need to be added to ALL concrete and Culverts