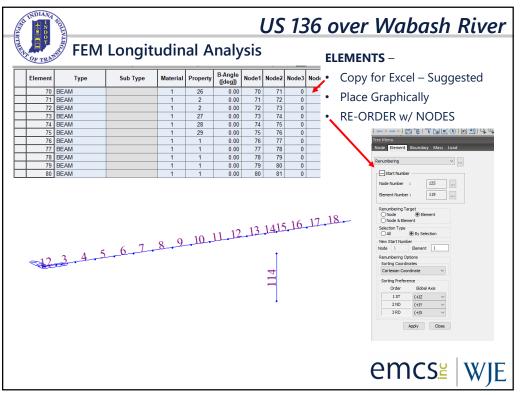
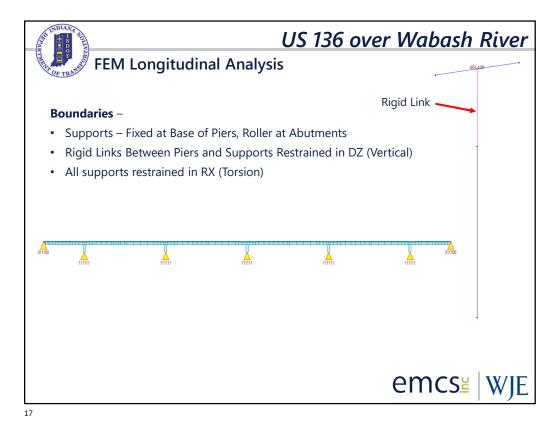
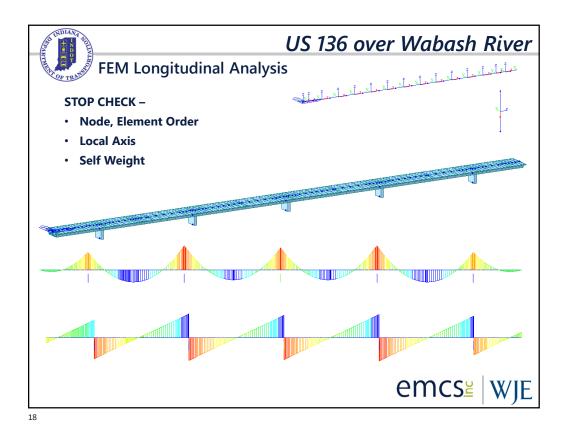


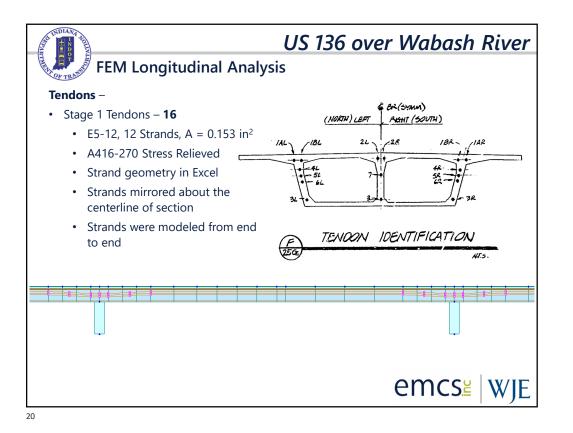
FEM Longitudir	US 136 over Wabash Rive
FEM Longitudir	nal Analysis Section Data ×
Section Input –	
PSC Viewer	X Name TYP Mech Size for Stiff, Calc. in
	BIL2         Jont On/Off         Outer           BL12         Jont On/Off         Outer           BL12         Jont On/Off         Outer           BL12         Jont On/Off         Outer           BL12         Jont On/Off         Outer           BL2         Jont On/Off         Outer           BL2         Jont On/Off         Outer           HI3:1         BL2         HI2           BL2         Intro Data         On the BO1:1         108.500 n           BL2:2         HI2         Jont On the BO1:1         108.500 n           HI3:1         BL2:2         Intro Data         On the BO2:2         On the BO2:1         On the BO3:1           BL2:1         HI3         @ 2 Cell         HO3:1         On the BO3:1         150 n
HO3 HO3-1 BO1 BO1 BO2-1 BO2-1	B13         Inner           H14-2-1         H14           H4         H14           H1         17.4999           H14         H14           H15         H12           H12         0           H12         0           H12         0           H14         H14           H15         H12           H12         0           H12         0           H14         H17.999           H13         H12.1           H14         H12           H14         H14           H13         H13.1           H13         H13.1           H14         H13           H14         H13           H13         H13           H14         H14           H14         H14
- Viewer	Web Thick.         H14         0         n         B13-2         129.375         n           for Shear (Lot + 1         -9.996         n         814         6.99996         n         814         6.99996         n           t1:         74.984         n         115         17.0000         n         H15         17.0000         n
	13:         42.933:  n         ✓ Consider Shear Deformation.           for Torsion(min,)         ☐ Consider Warping Effect(7th DOF)           13.9917025  n         ✓
	Offset : Center-Top Change Offset Table Input Display Centroid
	Show Calculation Results OK Cancel Apply
	emcs≝  ₩JI

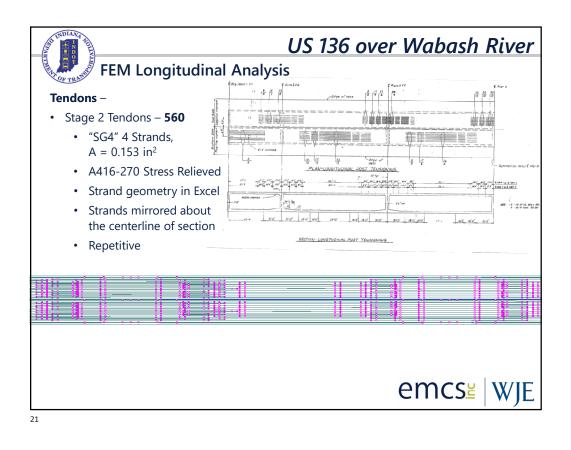


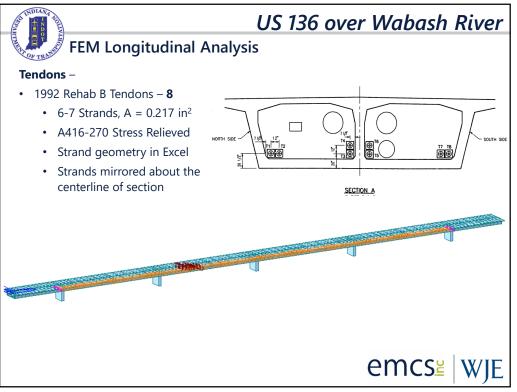


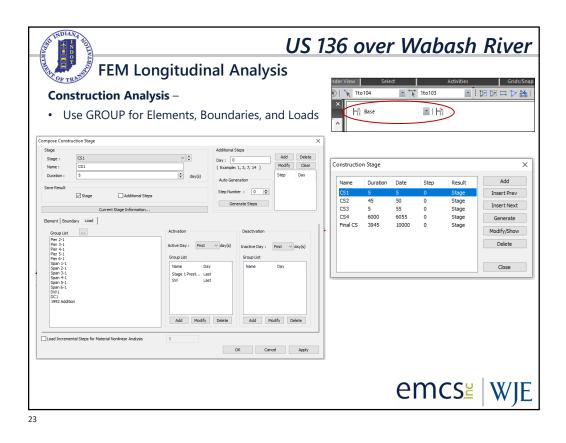


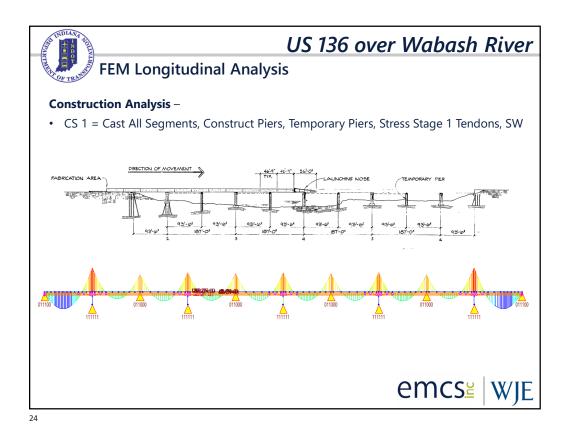
	136 over Wabash River
FEM Longitudinal Analysis	Add/Modify Tendon Profile × Tendon Name : LAL Group : Default v
Prestressing Tendons –	Assigned Elements : 1to 103 Input Type Straight Length of Tendon
Tendon Material Properties	Curve Type Begin: 0 ft Spline Round End: 0 ft
<ul> <li>Tendon Profiles entered for each Tendon –</li> </ul>	EXCEL
<ul> <li>Tendon profile geometry specific to the sta Assigned Element – ORDER</li> </ul>	Debonding Data         Begin :         0         End :         0         //t           Profile         Profile
Add/Modify Tendon Property       ×         Tendon Type       Elster in this is         Tendon Type       Internal@pat-feranon         Tendon Type       2         Tendon Type       Internal@pat-feranon         Tendon Type       Internal@pat-feranon         Tendon Type       Internal@pat-feranon         Tendon Type       Internal@pat-feranon         Dut Dometer       2000 II / Internal@pat-feranon         Dut Dometer       2000 / Internal@pat-feranon         Dut Dometer       2000 / Internal@pat-feranon         Dut Dometer       2000 / Internal@pat-feranon         Dut Dometer       0 / Internal@pat-feranon         Ourset       0 / Internal@pat-feranon         Dutadeb Friction Factor ((v = u x k))       0 / Internal@pat-feranon         Dutadeb Friction Factor (v = u x k)       0 / Internal@pat-feranon         Dended       0 / Internal@pat-feranon       0 / Internal@pat-feranon         Bend ::       0 / Internal@pat-feranon       0 / Internal@pat-feran	Y       27.1835         -72.1835
	emcs <u></u>  WJE
9	. ,

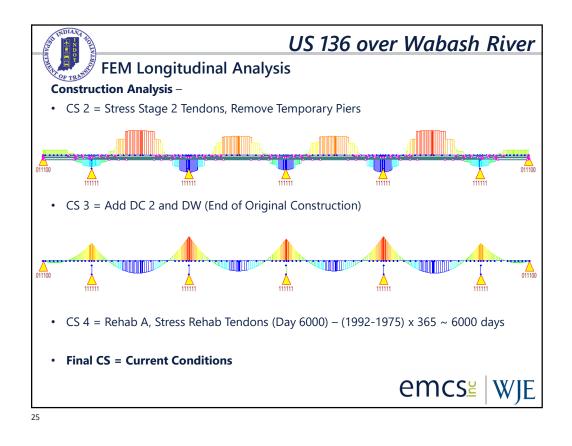




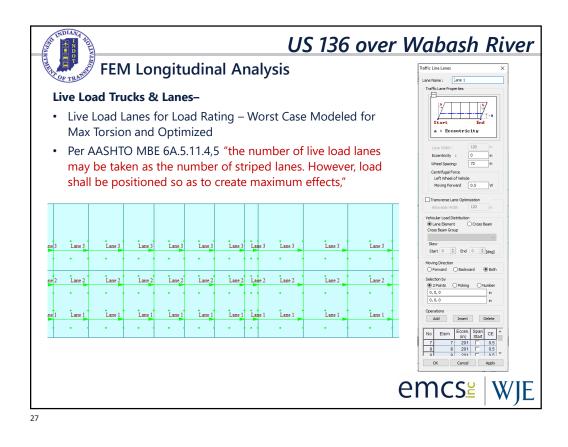


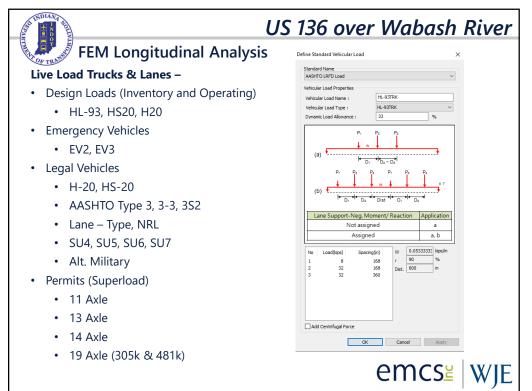


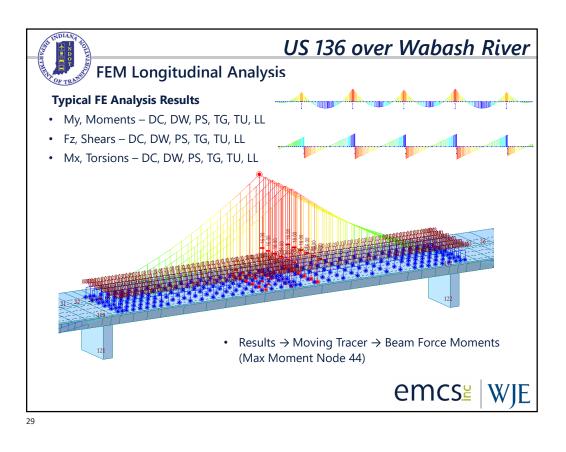


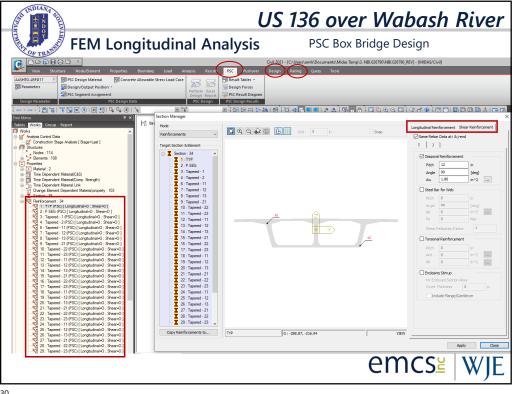


5	INDIANA AOLLY						US	51	36	5 0	Ve	er	Wa	ıba	sh	R	ive
2	OF TRANSPORT	EM Lo	ongitu	Idinal	Ana	lysis											
	Static Loa	ads															
	• Load T	bloc (		col													
		ables, C	Copy Ex	Cei													
	• D(	^ _ Self	Weight		omnor	ents											
		L Jen	vergin		mpor	icino											
	• D\	N — Llti	lities (W	/aterma	in) W	earino	I Su	rfac	P								
		<b>W</b> 00		aternic	((), vv	cunng	Ju	inac	C								
_																	
4	Eleme BM LD Type	Load Case	Load Type	Dist-I(ft)	Dist-J(ft)	Direction	Proje	D1	D2	D3	D4	P1	P2	P3	P4	Unit	Group
_	1 Beam Load	DC-Compo	Distributed	22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	lbf/ft	
4	1 Beam Load	DC-Compo	Distributed	-22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	Ibf/ft	
4	2 Beam Load	DC-Compo	Distributed	22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	Ibf/ft	
-	2 Beam Load 3 Beam Load	DC-Compo	Distributed	-22.50		Global Z Global Z	No No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	Ibf/ft	
-	3 Beam Load	DC-Compo DC-Compo	Distributed Distributed	-22.50		Global Z Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	lbf/ft lbf/ft	
-	4 Beam Load	DC-Compo	Distributed	-22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	Ibf/ft	
-	4 Beam Load	DC-Compo DC-Compo	Distributed	-22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	Ibf/ft	
	5 Beam Load	DC-Compo	Distributed	22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	lbf/ft	
1	5 Beam Load	DC-Compo	Distributed	-22.50		Global Z	No	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	Ibf/ft	
-	5 Deam Load	DO-Oompo	Distributed	-22.50	-22.50	Olobal 2	140	0.00	1.00	0.00	0.00	-140.00	-140.00	0.00	0.00	IMPIL	001
			ture Gra Tempera		Beam	Section	on T	ēm	p Lo	bad	s						
												e	en	าต	S≝	1	₩JE

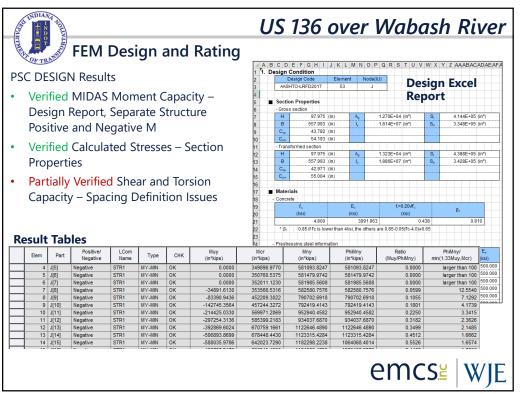


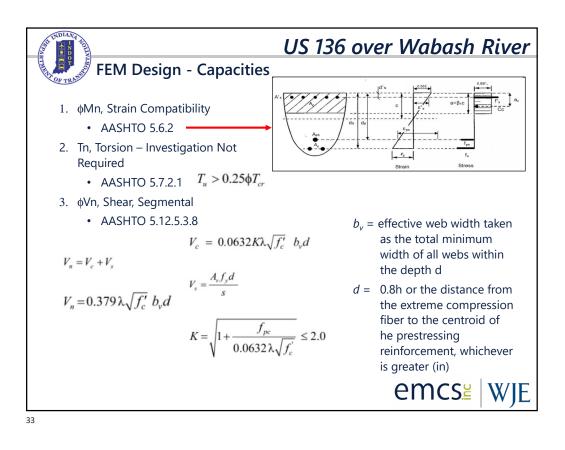


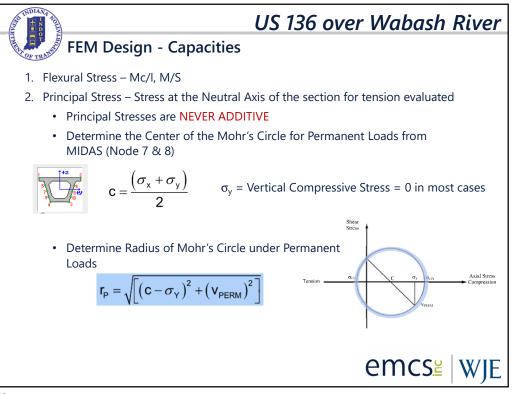


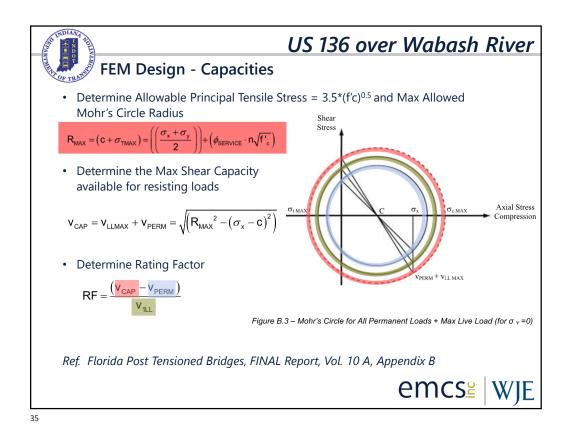


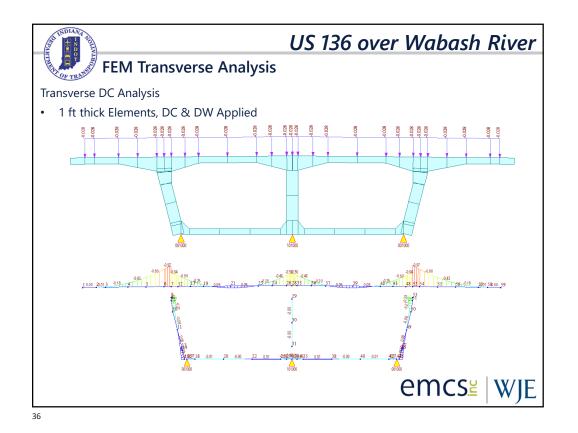
C Design Parameters		×	Load Com	binations			
Design Code : AASHTO-LRFD17 ~				Steel Design Con Combination List	rete Design SR(	Design Compos	ite Steel Girder Desig
Input Paramaters				No Name	Active	Туре	Descriptior
Tendon Type	Corrosive Condition		•	1 STR1	Strengt	Add	
O Low Relaxation Tendons	○ Severe   Moderate/M	ild		2 SVC III 3 SVC I Perr	Service nit Service	Add Add	
Stress Relieved Tendons			*				
O Prestressing Bars	Flexural Strength						
Exposure Factor for Crack Width	O Code	atibility					
Class I (1.0)							
Class II (0.75)	Construction Type						
Ouser 1	Segmental     ONon-Segment	ntal					
Stress by Construction Stage Stress by Service Load Combinations Stress in Prestressing Tendons Principal Stress by Construction Stage Principal Stress by Service Load Combinations (Max Sthear) Principal Stress by Service Load Combinations (Max Torson)	Flexural Strength Check Shear Strength Check Combined Shear and Torsion Check		< Co	py Impo e: C:Users\amh		uto Generation Temp\3. NBI.0267	
Crack Check	Select All	Unselect All					
	ОК	Cancel					

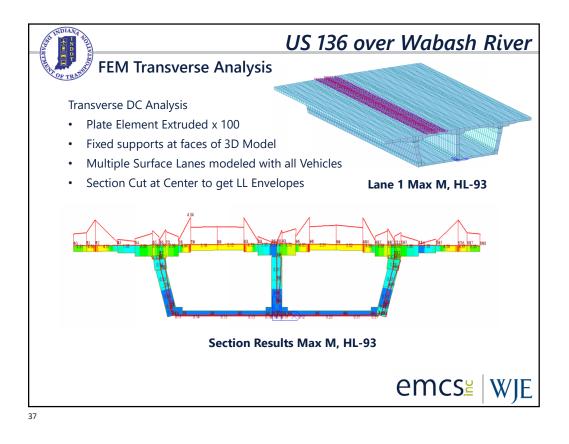


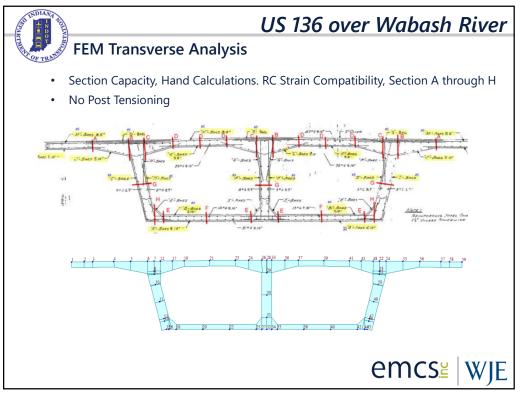


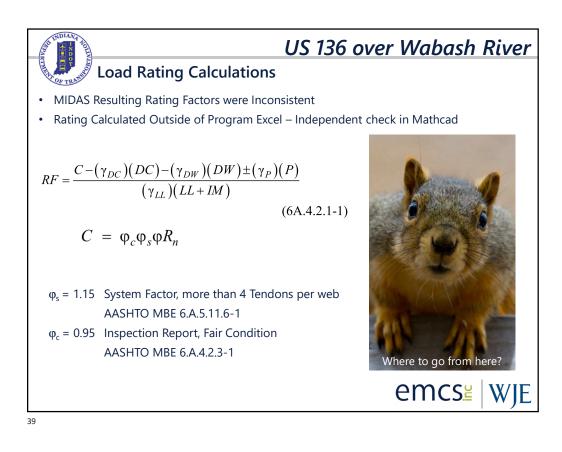


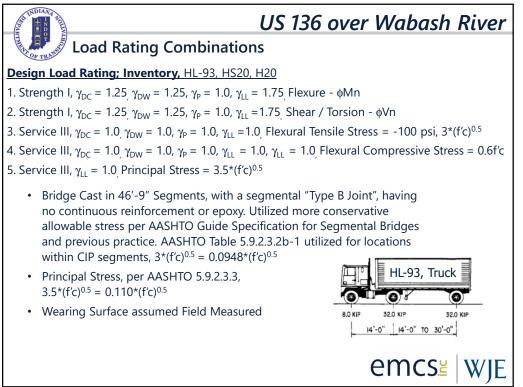


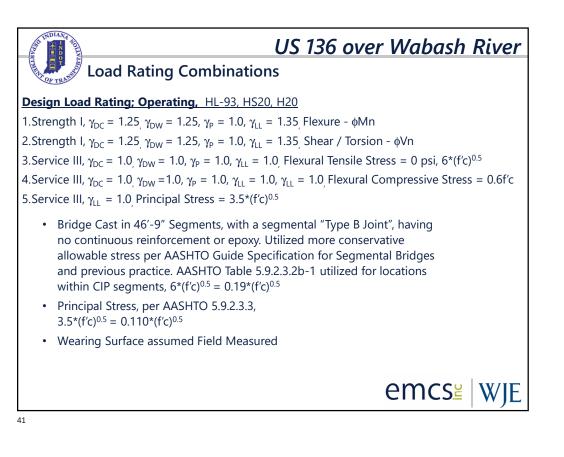




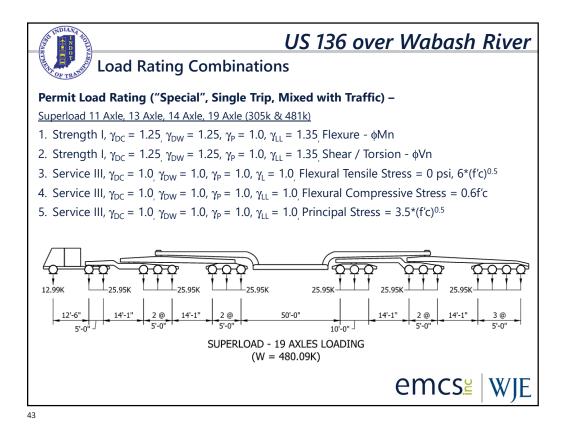


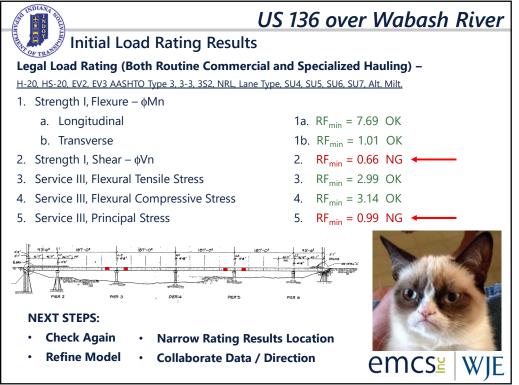


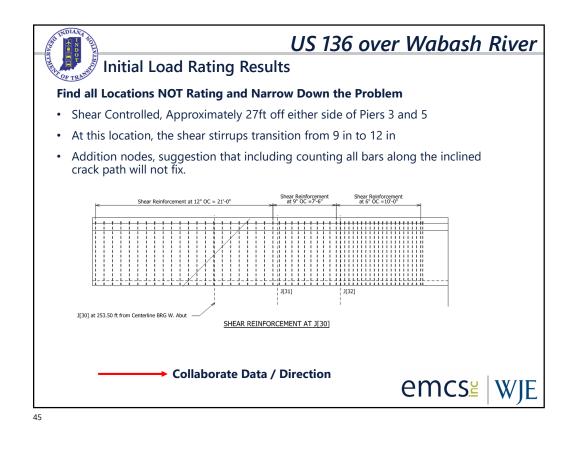


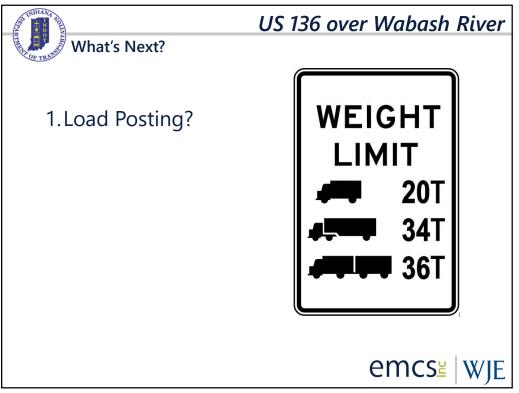


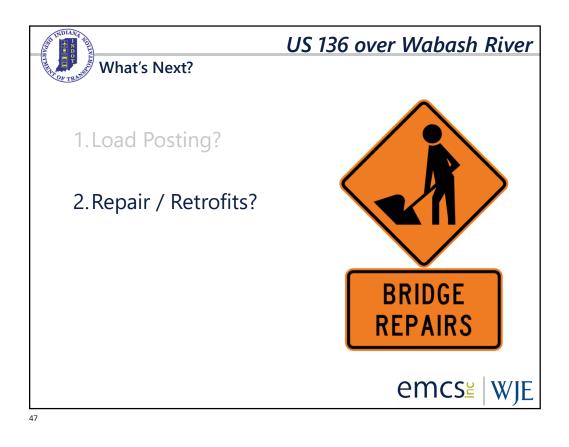




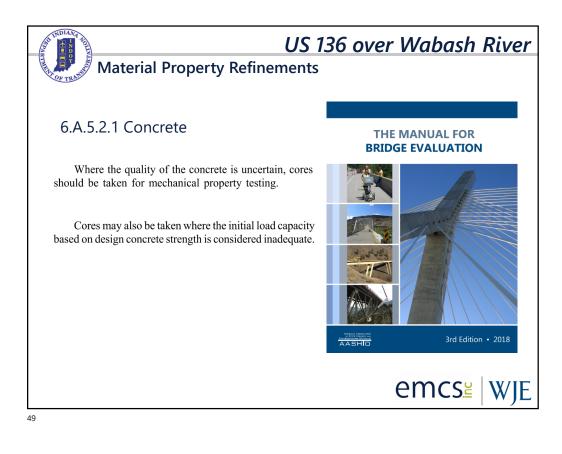


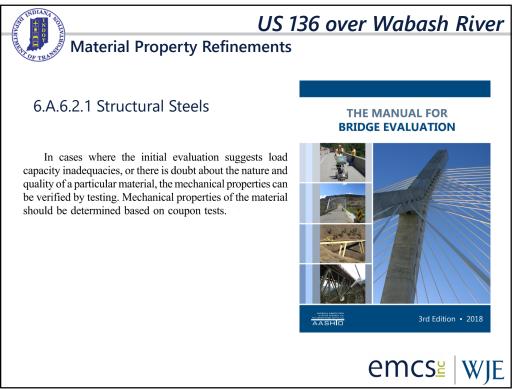




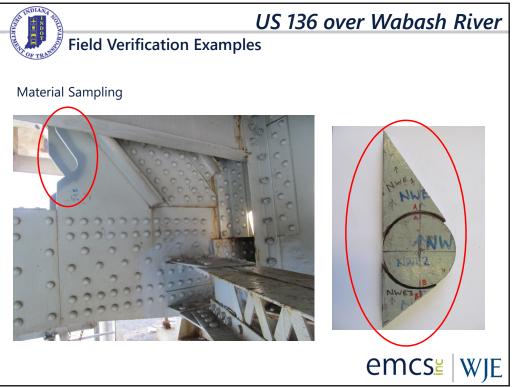


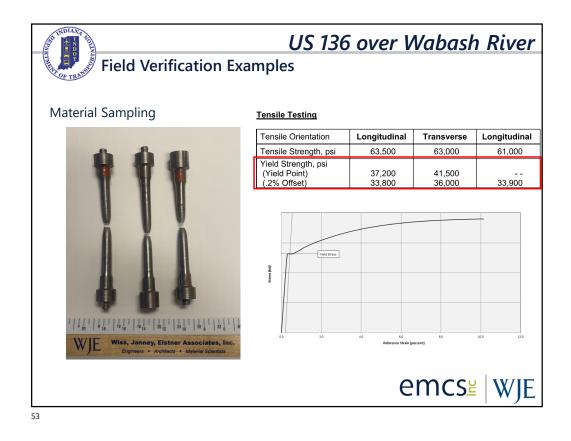




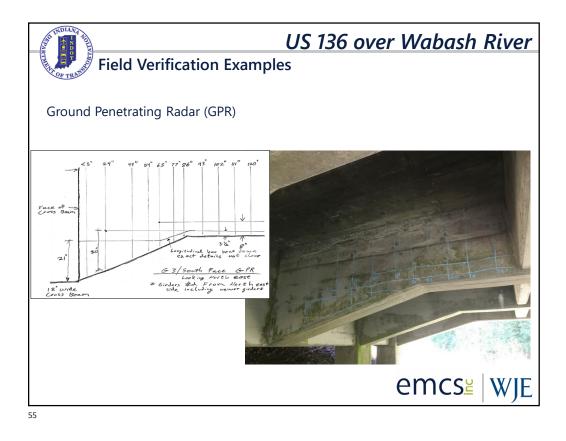






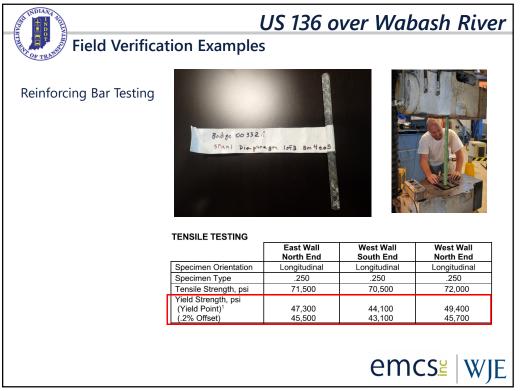


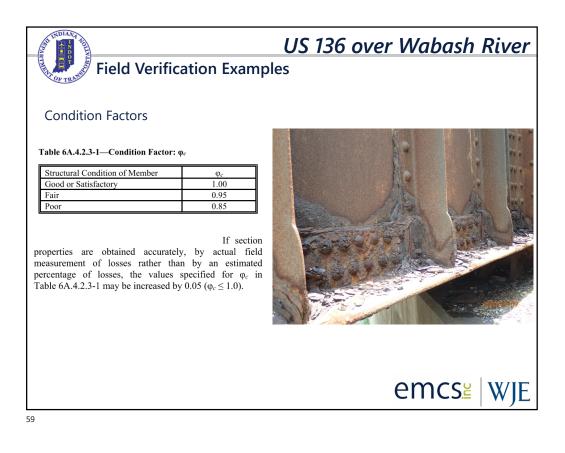


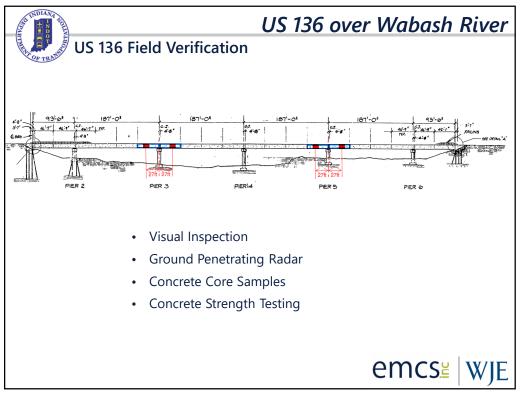




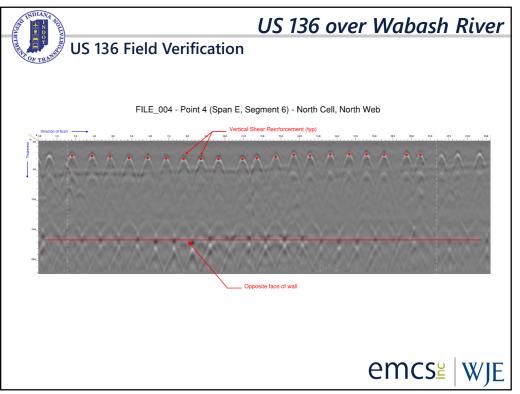
















	Sample ID	Corrected Compressive Strength (psi)	Section	Web
	CORE 1	7,360	Point 4 (Span E)	Cente
	CORE 2	8,250	Point 4 (Span E)	North
	CORE 3	7,920	Point 4 (Span E)	North
	CORE 4	9,580	Point 3 (Span D)	North
	CORE 5	7,910	Point 3 (Span D)	Nort
	CORE 6	8,260	Point 3 (Span D)	Cente
	CORE 7	6,440	Point 2 (Span C)	Cente
	CORE 8	7,080	Point 2 (Span C)	North
THE PARTY	CORE 9	8,610	Point 1 (Span B)	Norti
	CORE 10	9,210	Point 1 (Span B)	Sout
CHILDREN TO A	CORE 11	8,060	Point 1 (Span B)	Sout
	CORE 12	8,270	Point 1 (Span B)	Cente
	CORE 13	8,070	Point 2 (Span C)	Sout
	CORE 14	8,250	Point 2 (Span C)	Sout
	CORE 15	8,570	Point 3 (Span D)	Sout
	CORE 16	8,610	Point 4 (Span E)	South
100 M	CORE 17	8,630	Point 4 (Span E)	South

	c	oncrete Compressive Strength	ı (psi)		
Group	Mean (µ)	Standard Deviation (σ)	AASHTO MBE (μ - 1.65σ)		
All Samples	8,181	744	6,954		
Above Construction Joint	7,995	886	6,533		
Below Construction Joint	8,347	595	7,366		
Point 1 (Span B)	8,538	502	7,709		
Point 2 (Span C)	7,460	853	6,053		
Point 3 (Span D)	8,580	719	7,393		
Point 4 (Span E)	8,154	531	7,277		
	-	osi (Materi osi (Design			

emcs≝∣WJE

