

PENNSYLVANIA

Rapid Bridge Replacement Project



PA Rapid Bridge Replacement Project GC Outreach

10:00 AM – 12:00 PM



PENNSYLVANIA

Rapid Bridge Replacement Project



PROJECT OVERVIEW

Presented by:

Aaron Tubbs – Project Director

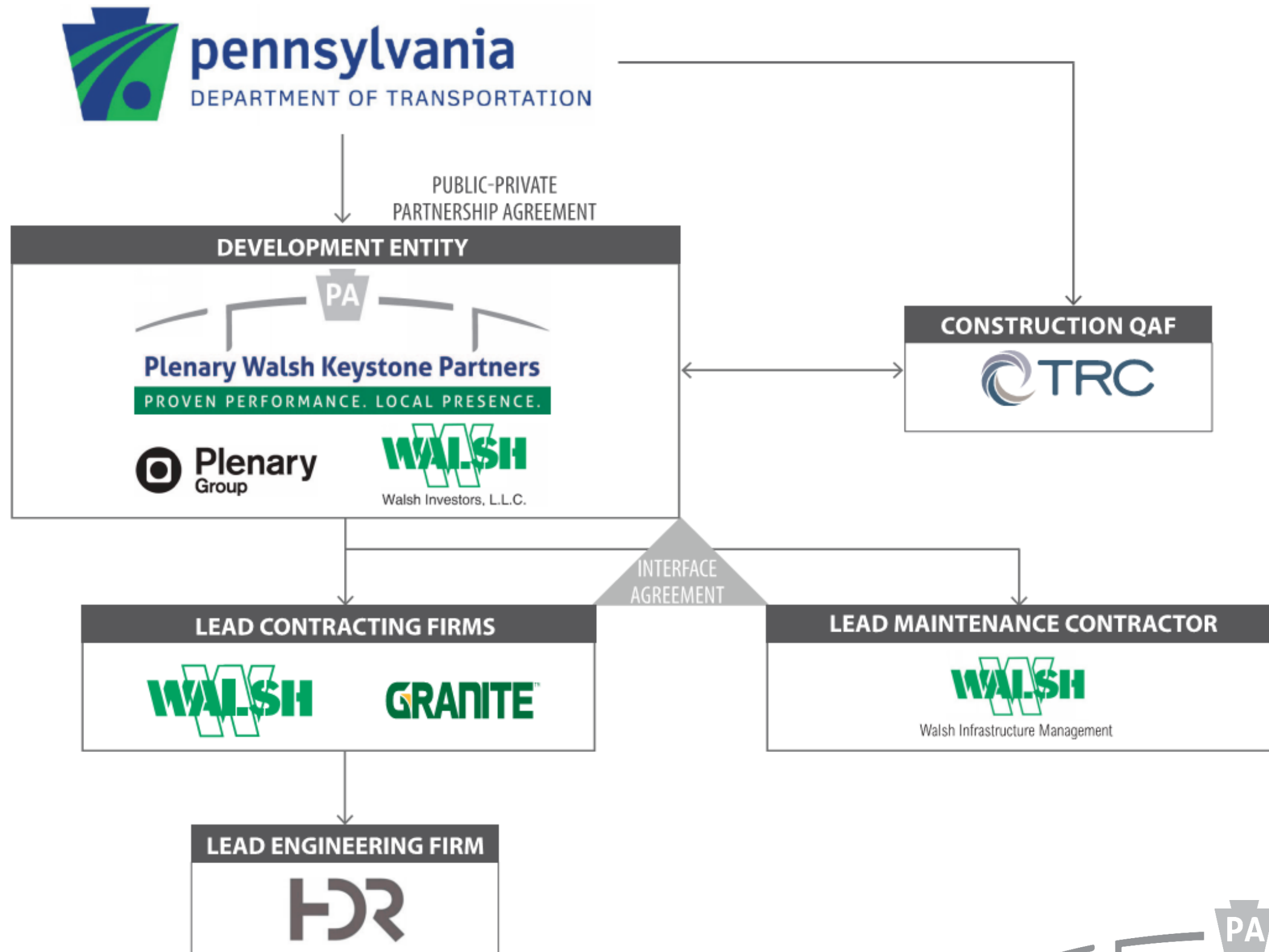
558 BRIDGES



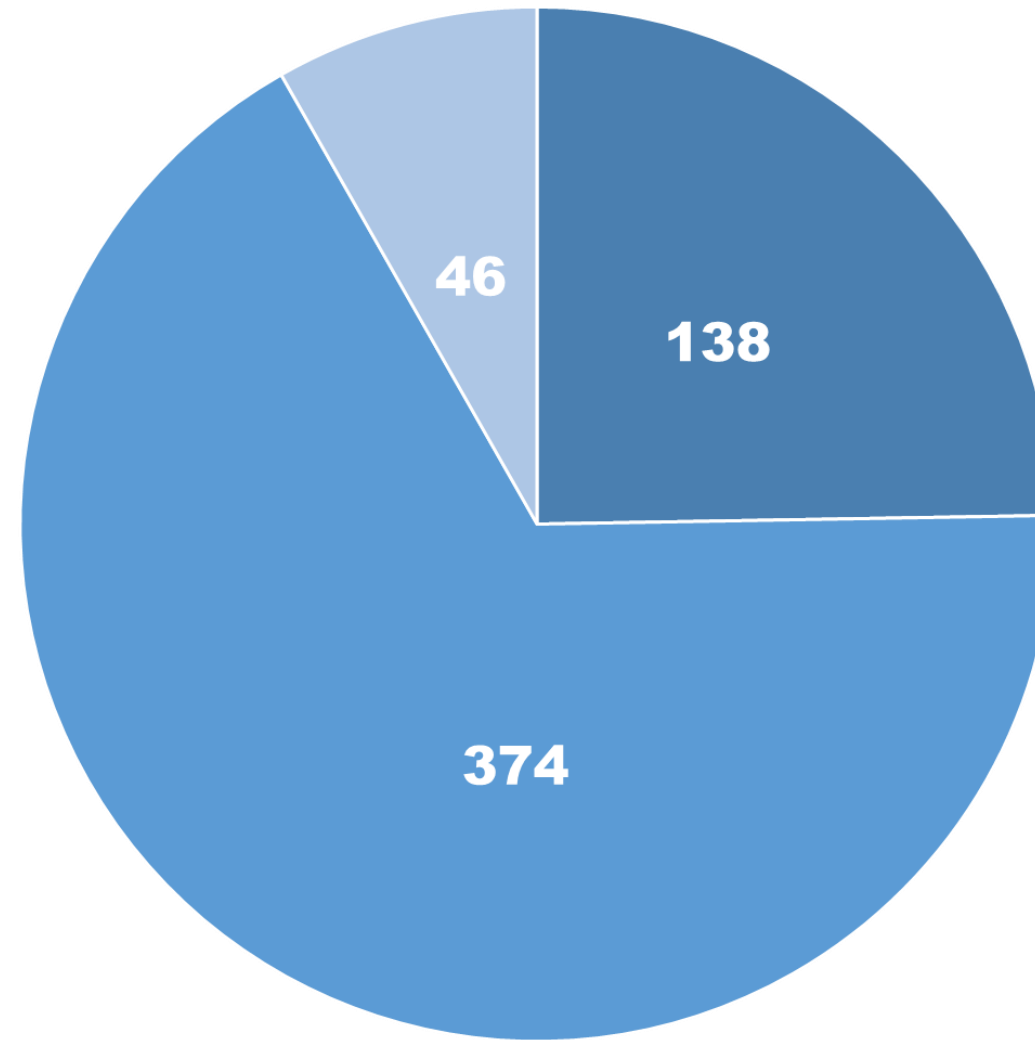
Bridge Definitions

- ECB (Early Completion Bridges): 87
- REB (Remaining Eligible Bridges): 471

PLENARY WALSH KEYSTONE PARTNERS TEAM STRUCTURE



558 Bridges - Structure Types



■ Culverts ■ Integral Abutments ■ Conventional Cantilevered Abutment

- Culverts: 138
- Integral Abutments: 374
- Conventional Cantilevered Abutment: 46

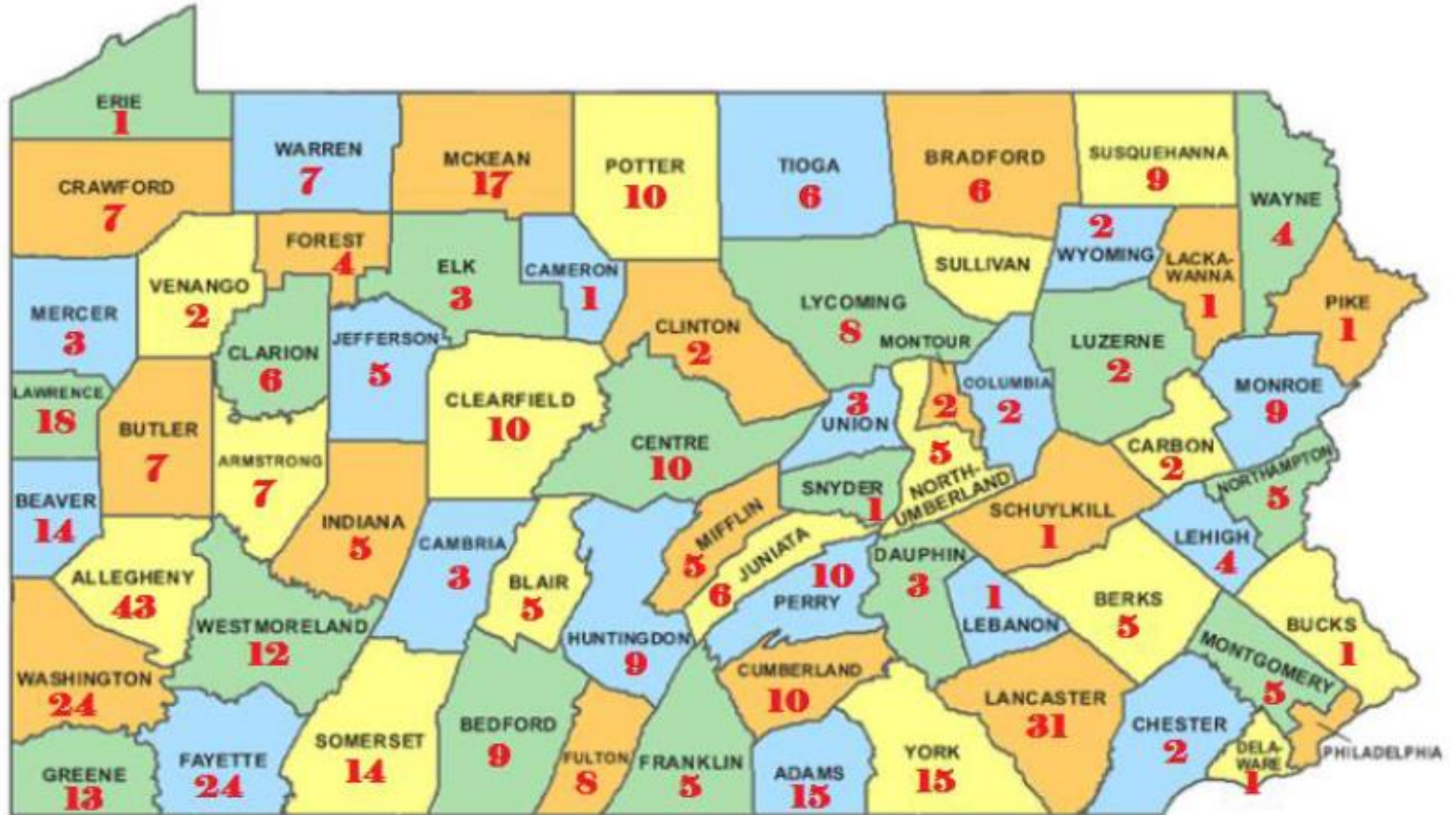
BRIDGE CONSTRUCTION SCHEDULE

Year	# Bridges Starts	# Bridges Completed (Per Year)	# Bridges Completed (Cumulative)
2015	50	43	43
2016	298*	262	305
2017	210*	253	558

*Potential Bridge Starts



2016 / 2017 CONSTRUCTION - BRIDGE LOCATIONS



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REGIONAL TEAM INTRODUCTIONS

Presented by:
Regional Manager

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WEST



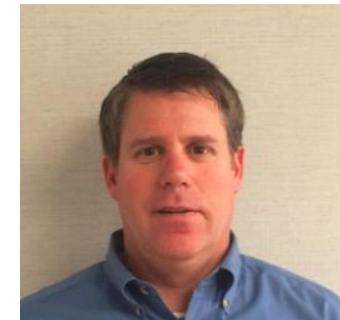
- John Tracy - PM
- Josh Santina – GS
- Dan Blevins – PM D1/10
- Dean Marten – PM D11
- Matt Filipowski – PM D12
- Jordan Foster - Logistics
- Aaron Ashley - Safety

CENTRAL



- Curt Beveridge - PM
- Jason Raplee
- Brad Lawer
- Mike Heiple - Logistics
- James Sallows - Safety

EAST



- Glenn Olechnowich – RM
- Stephen Ascoli – Deputy RM
- Mike Cerretani – GS
- Steve Swartz – Senior Super
- Yves Rugasaguhunga – PM D4
- Abdoul Diallo – PM D5
- Rodney Wood – PM D8
- James Boudart - Logistics
- William Bowermaster – Safety

WEST 23

- 359
- 360
- 366
- 367
- 371
- 373
- 376
- 416
- 418
- 419
- 420
- 431
- 436
- 438
- 446
- 544
- 545
- 547
- 549
- 552
- 554
- 556
- 559

CENTRAL 12

- 92
- 95
- 97
- 103
- 104
- 107
- 112
- 114
- 118
- 126
- 129
- 133

EAST 15

- 142
- 151
- 161
- 162
- 166
- 181
- 186
- 204
- 205
- 206
- 208
- 210

2015 Summary – BRIDGE OPENINGS

WEST



2015 Summary – BRIDGE OPENINGS

CENTRAL



2015 Summary – BRIDGE OPENINGS

EAST



WEST

Walsh II
Clearwater
Beech
CH&D
Allison Park
R.L. Johnson
J.F. Shea
Mekis
Swank
Paliotta
PLUM
Jet Excav
Pugliano

CENTRAL

Walsh II
Clearwater
Beech
Hawbaker
L.C. Whitford
C.P. Ward
Rylind
HRI

EAST

Walsh II
Clearwater
Fahs Const
Minichi
R. DeVincentis
Kohrs Exc
Leeward

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Rapid Bridge Replacement Project



Project Improvements –

- **RFC Documents**
- **Bridge Design**
- **Non-Compliance Reporting**
- **Quality Control**

PROJECT SITE DASHBOARD

BRIDGE PROJECT DASHBOARD - SharePoint

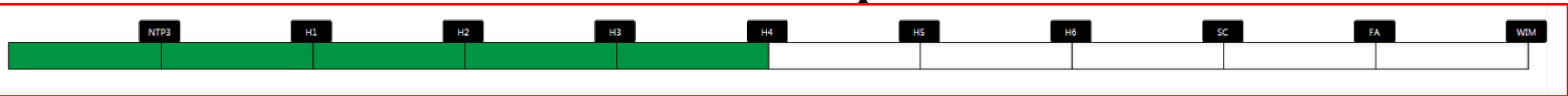
- **In 2015 it was just a place to store documentation**
- **In 2016 the Dashboard Bridge Sites will follow the path of construction. It will be much easier to find the documents you are looking for. We will be able to track what documentation we do and do not have in order to proceed with construction.**
- **Notification of updates to the Bridge Site Dashboard**
- **All documentation easily accessible via links**

Bridge Project Dashboard

PROGRESS INDICATOR

The progress bar advances when a milestone is marked complete.

Progress Bar showing the progression of construction based on what documentation is in SharePoint.



DOCUMENT INVENTORY PER PHASE

Instructions for the Bridge Engineer to use the dashboard will go here.



+ new task

Task Name	Doc Link	Date Received	Responsible	
C-Milestone1 (4)				
C1-MS1-Subtask1 (2)				
C-MS1 ST1 Document 1	C1-MS1 ST1 Document 1	12/8/2015	Happney, Dawn	<input type="checkbox"/>
C-MS1 ST1 Document 2	C1-MS1 ST1 Document 2	12/9/2015	Happney, Dawn	<input checked="" type="checkbox"/>
C2-MS1-Subtask2 (1)				
C3-MS1-Deliverable (1)				
C-MS1-STM Milestone Document	Test		Marten, Dean	<input checked="" type="checkbox"/>
C-Milestone2 (5)				
H1-Abutment Placement (3)				

Link to Document

Tabs for the different stages of the construction of the Bridge.

NCR / NCE Reporting

**Schedule 1
Noncompliance Points Table
Table 7.1 – Noncompliance Events Relating to D&C Work**

Noncompliance Event Category	Noncompliance Event ID	Each breach or failure to comply with the following obligations constitutes a Noncompliance	Noncompliance Points	GC Sub Total Event	GC Sub Cure Period	Interval of Recurrence
Notification	1	Notify Walsh/Granite JV of the occurrence of any Noncompliance Event in this Schedule 7 (Noncompliance Points Table) in accordance with Article 11 (Noncompliance Events) of the PPA.	5	\$ 500.00	None	24 hours
Approvals and Oversight	8	Correct deficiencies raised in any Notice of Violation (NOV) within the timeframe established in such NOV.	4	\$ 400.00	None	24 hours
Project Delivery Protocols	37	Comply with the requirements of Attachment 10-1 of the Technical Provisions, and any such failure results in a School Summer Recess Unavailability	5	\$ 1,000.00	None	1 Business Day
Project Delivery Protocols	38	Comply with the requirements of Section 16 (Maintenance and Protection of Traffic) of the Technical Provisions, and any such failure results in a Calendar Event Unavailability Event.	5	\$ 1,000.00	None	24 hours
Project Delivery Protocols	39	Comply with the requirements of Section 16.3.1.2 of the Technical Provisions in respect of Construction Work inactivity for any type of Closure.	5	\$ 1,000.00	None	1 Business Day
Performance Standards	41	Avoid encroaching on private property without prior, proper authorization.	5	\$ 500.00	None	8 hours
Project Delivery Protocol	45	Achieve Final Acceptance in respect of any Replacement Bridge within sixty (60) days of achievement of Substantial Completion in respect of such Replacement Bridge.	3	\$ 300.00	None	5 Business Days
Project Delivery Protocols	40	Obtain the approval of Walsh/Granite JV for the Closure of any roadway beneath a Replacement Bridge in accordance with the requirements of Section 16.1 (General Requirements) of the Technical Provisions.	5	\$ 250.00	1 hour	30 minutes
Project Delivery Protocols	35	Comply in any material respect with the maintenance and protection of traffic requirements respecting traffic control devices for short term operations or the requirements for three or more consecutive channelizing devices, stop and yield signs, temporary signals, or arrow panels in accordance with Section 16.4 (Traffic Management Requirements during Construction Period) of the Technical Provisions	5	\$ 250.00	2 hours	2 hours
Project Delivery Protocols	36	Comply in any material respect with the maintenance and protection of traffic requirements respecting traffic control devices for long term operations in accordance with Section 16.4 (Traffic Management Requirements during Construction Period) of the Technical Provisions.	4	\$ 200.00	24 hours	24 hours
Reporting, Submittals, and Document Management	13	Comply with the requirements of the Project Documents relating to inspections and inspection reporting.	5	\$ 250.00	1 Business Day	1 Business Day

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BID PROCEDURES / WEBSITE NAVIGATION

Presented by:

Curt Reppert, Bid Procurement Manager

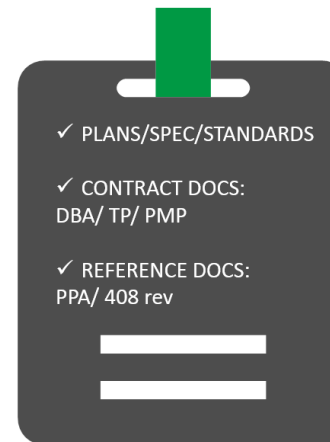
creppert@walshgroup.com

BIDDING PROCEDURES / WEBSITE NAVIGATION

- Bidder Prequalification
- Account Access / Notifications
- Bidding Opportunities Webpage
- Bid Letting Schedule / Bid Results
- Project Standard Contract Documents
- Bridge Bid Documents and Details
- Planholders List / Pre-Bid Q&A

Company Information	
Company Name	
Company Contact Name	
Company Contact Email	
Address / Telephone / Fax	

General Questions	
Preferred Districts/Counties	
Bonding Available / Rate	
Revenue Earnings (Past 3 Years)	
Work Backlog	
Union Affiliation	
Drug Alcohol Policy	
Equal Opportunity Program	
Health & Safety Program	
EMR Rating	
PennDOT Prequalification NO.	
DOB/MISC/WE	



BID # 172		COMPANY	
BRIDGE ID# (BIDS)	100250800011	PROJECT BY ID:	
DISTRICT ID		CONTRACT NAME:	
COUNTY	Butte	CONTRACT PKG #:	
NO.	BRIDGE	DATE	STATUS
1	1000-000	10/15/15	OPEN
2	1000-000	10/15/15	OPEN
3	1000-000	10/15/15	OPEN
4	1000-000	10/15/15	OPEN
5	1000-000	10/15/15	OPEN
6	1000-000	10/15/15	OPEN
7	1000-000	10/15/15	OPEN
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96	1000-000	10/15/15	OPEN
97	1000-000	10/15/15	OPEN
98	1000-000	10/15/15	OPEN
99	1000-000	10/15/15	OPEN
100	1000-000	10/15/15	OPEN

Project Website Address:

The Pennsylvania
Rapid Bridge Replacement
Project

<http://parapidbridges.com/>



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2016 BID LETTING SCHEDULE

BID LETTING SCHEDULE 2016

JANUARY

SUN	MON	TUE	WED	THU	FRI	SAT
					\$ 1	2
					H	
3	4	5	6		8	9
10	11	12	13		\$ 15	16
17	H	19	20	21	22	23
24	25		27		\$ 29	30
31						

FEBRUARY

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3		5	6
7	8		10		\$ 12	13
14	H	16	17	18	19	20
21	22		24		\$ 26	27
28	29					

MARCH

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2		4	5
6	7	8	9		\$ 11	12
13	14	15	16		18	19
20	21	22	23		\$ 25	26
27	28	29	30			

APRIL

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6		\$ 8	9
10	11	12	13		15	16
17	18	19	20		\$ 22	23
24	25	26	27		29	30

MAY

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4		\$ 6	7
8	9	10	11		13	14
15	16	17	18		\$ 20	21
22	23	24	25	26	27	28
29	H	31				

JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
			1		\$ 3	4
5	6	7	8		10	11
12	13	14	15		\$ 17	18
19	20	21	22		24	25
26	27	28	29	30		

JULY

SUN	MON	TUE	WED	THU	FRI	SAT
					\$ 1	2
3	H	5	6		8	9
10	11	12	13		\$ 15	16
17	18	19	20	21	22	23
24	25	26	27		\$ 29	30
31						

AUGUST

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3		5	6
7	8	9	10		\$ 12	13
14	15	16	17	18	19	20
21	22	23	24		\$ 26	27
28	29	30	31			

SEPTEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	H	6	7	8	\$ 9	10
11	12	13	14		16	17
18	19	20	21	22	\$ 23	24
25	26	27	28		30	

BID LETTING SCHEDULE

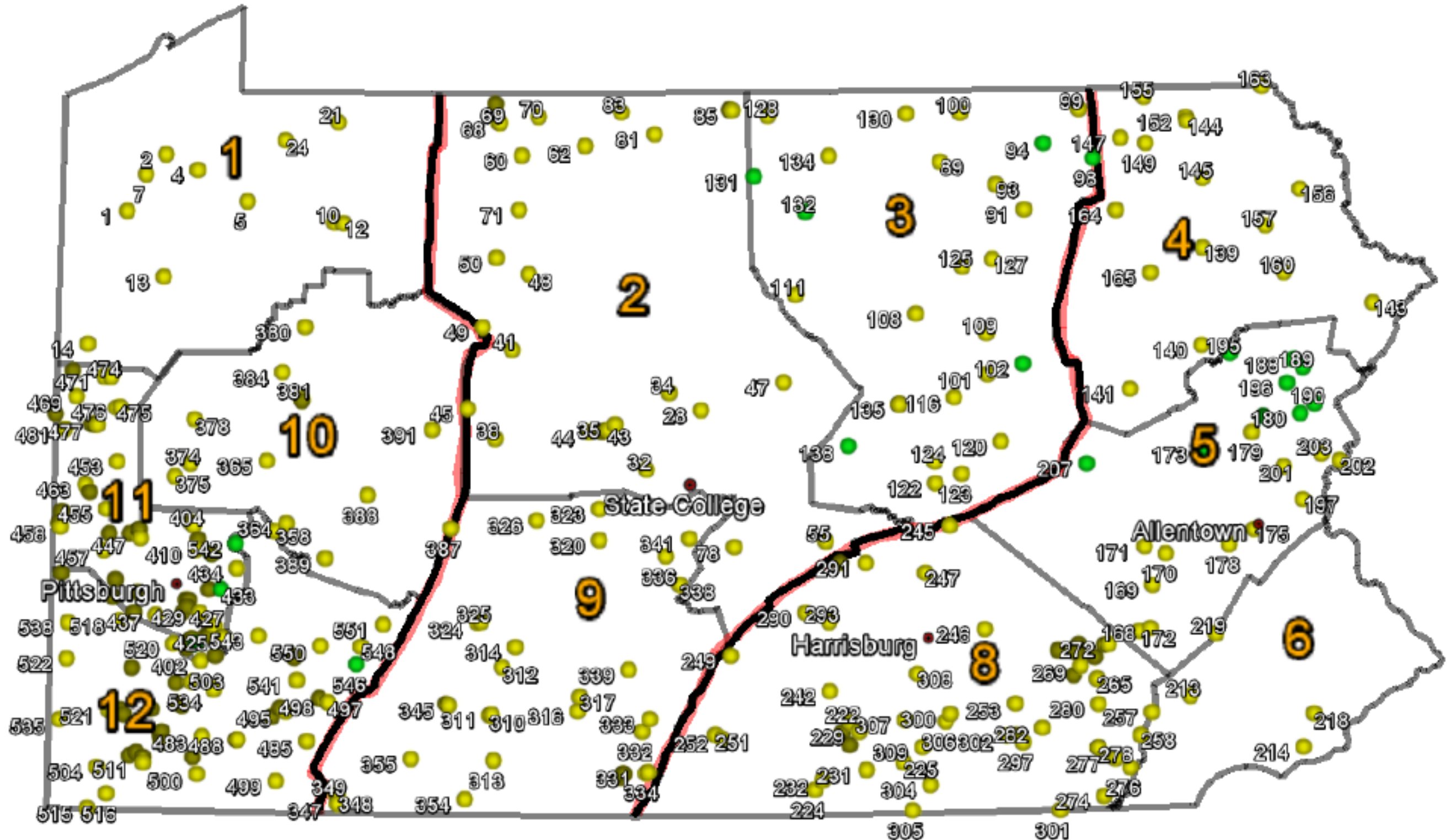
Pennsylvania RBR Bridge Letting Dates on 1/26/2016

ID	LOCATION	DISTRICT	COUNTY	DETAILS
#304	1 MI.W. OF JEFFERSON	8	York	
#390	FORT ROBINSON	8	Perry	
#332	3 MI E OF GOODVILLE	8	Franklin	
#355	VILLAGE OF CLAY	8	Lancaster	
#329	Village of Limerock Mill Bridge	8	Adams	
#372	W.Wyomissing Ave.	5	Berks	
#356	OREGON TWP 1.5 MI N SR 4019	4	Wayne	
#347	FRST LK TR 4.5M S SR 4014	4	Susquehanna	
#345	LENOX TWP .1 MI E TR 92	4	Susquehanna	
#356	.1 MI N SR1011,CNTR UNION	9	Huntingdon	
#354	2.5 MI NE OF WELLSBORO	5	Tioga	
#355	VAN WERT	2	Juniata	
#344	WEST DECATUR	2	Clearfield	
#348	LIGONIER TOWNSHIP	12	Westmoreland	
#323	West Pike Run Township	12	Washington	
#316	WAYNE TOWNSHIP	12	Greene	
#498	SALTICK & DONSDAL TWPS.	12	Fayette	
#497	SALTICK & DONSDAL TWPS.	12	Fayette	
#492	BULLSKIN TOWNSHIP	12	Fayette	
#441	1 MI.W.OF SR3042	11	Allegheny	
#427	2082 Feet SW of SR 48	11	Allegheny	
#402	100W.OF Inter W/SR 2017 bridge	11	Allegheny	
#364	Laurel Point	10	Armstrong	
#353	CASANOVA	2	Centre	
#304	RICHMOND TOWNSHIP	1	Crawford	
#301	VERNON TOWNSHIP	1	Crawford	

Pennsylvania RBR Bridge Letting Dates on 2/9/2016

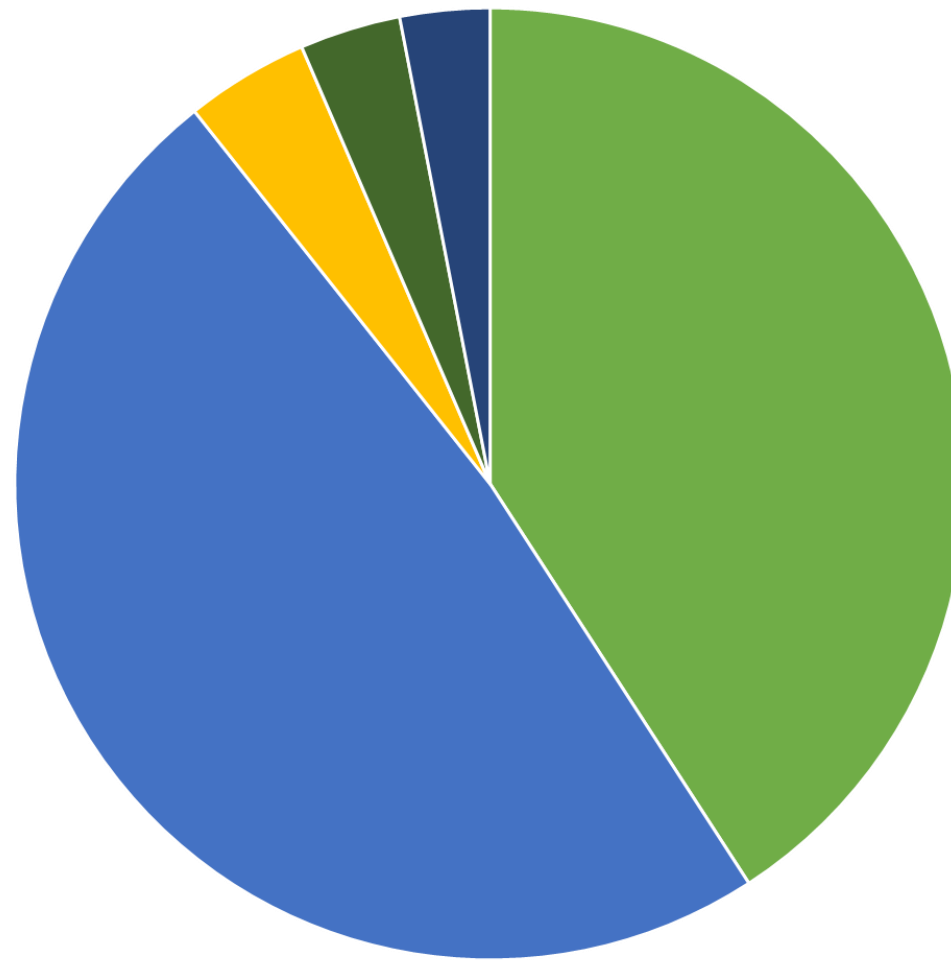
ID	LOCATION	DISTRICT	COUNTY	DETAILS
#550	UNITY TOWNSHIP	12	Westmoreland	
#541	MT. PLEASANT & BULLSKIN T	12	Westmoreland	
#508	JEFFERSON T & CLARKSVILLE	12	Greene	
#492	N. UNION & FRANKLIN TWPS.	12	Fayette	
#471	1/2 MI. S.E. OF SR 3005	11	Lawrence	
#459	Greene Twp.-Mill Creek	12	Sevier	
#457	Inter. With TWP.RD.544	11	Sevier	
#447	419' W OF LR 02090	11	Allegheny	
#424	500'N.E.OF Ross Street	11	Allegheny	
#423	Inter. With SR 3000	11	Allegheny	
#404	1 Mile East of RT 8 Int bridge	11	Allegheny	
#381	WILDCAT NO.2	10	Clinton	
#354	0.46 MILE SOUTH FROM SR 3002	9	Somerset	
#306	2 MILES S. OF DOVER	8	York	
#295	AT BRIDGEPORT	8	Perry	
#279	1 MI.N. CAMARCO	8	Lancaster	
#278	CAMARCO	8	Lancaster	
#225	Abbotstown Bridge	8	Adams	
#143	DINGMAN TWP .2 MI E TR 739	4	Pike	
#140	BEAR CR TW 1.3M S SR 2038	4	Luzerne	
#132	VILLAGE OF DRAPER	5	Tioga	
#091	Village OF STEVENSON	5	Bradford	
#024	SPRING CREEK TOWNSHIP	1	Warren	

2016 Bid Letting – Bridge Locations



2016 Bid Letting – STATEWIDE STRUCTURE TYPES

Design Type - 2016 Quantity



■ Box Culverts ■ Integral Abutments ■ Cantilever Spread Footings ■ Cantilever Pile Footings ■ Other Solutions

Design Type	2016 Quantity
Box Culverts	107
Integral Abutments	127
Cantilever Spread Footings	11
Cantilever Pile Footings	9
Other solutions	8
TOTAL	262

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SUBCONTRACTOR BENEFITS -

- **Multiple Bridge Awards (Sub Select)**
- **Bonus Incentive**
 - No Non-Compliant Events
 - Finish On Time: NO EXCUSES
- **Payment Terms**
- **WGJV Material & Sub Procurement**
- **Dedicated PRBR GC Crews- Allows for several benefits such as risk reduction, secured back-log, resource sharing (i.e. WGJV may perform piling operations)**

Task	Start	End	Status
Task 1	01/01/2024	03/31/2024	Completed
Task 2	04/01/2024	06/30/2024	In Progress
Task 3	07/01/2024	09/30/2024	Planned
Task 4	10/01/2024	12/31/2024	Planned

SUBCONTRACTOR PAYMENT TERMS

Detoured Bridge Structure			
Milestone	Payment Percentage of Contract Value	% Complete - Submitted and Approved in Sharepoint	
		SOS	CS-4171 / COC
Demolition of Existing Bridge	25%	50%	25%
Set Beams (Bearings set, release to CJV for beam erection)	25%	100%	50%
Placement of Deck Concrete	25%		75%
Substantial Completion	15%		100%
Final Acceptance	10%		

Detoured Culvert Structure			
Milestone	Payment Percentage of Contract Value	% Complete - Submitted and Approved in Sharepoint	
		SOS	CS-4171 / COC
Demolition of Existing Bridge	25%	50%	25%
Set Precast Box Culvert	25%	100%	50%
Installation of Asphalt Roadway	25%		75%
Substantial Completion	15%		100%
Final Acceptance	10%		

Phased Bridge Structure			
Milestone	Payment Percentage of Contract Value	% Complete - Submitted and Approved in Sharepoint	
		SOS	CS-4171 / COC
Demolition of Existing Bridge (PH1)	15%	50%	25%
Set Beams (Bearings set, release to CJV for beam erection) (PH1)	15%	100%	
Placement of Deck Concrete (PH1)	15%		50%
Set Beams (Bearings set, release to CJV for beam erection) (PH2)	15%		
Placement of Deck Concrete (PH2)	15%		75%
Substantial Completion	15%		100%
Final Acceptance	10%		

Phased Culvert Structure			
Milestone	Payment Percentage of Contract Value	% Complete - Submitted and Approved in Sharepoint	
		SOS	CS-4171 / COC
Demolition of Existing Bridge (PH1)	15%	50%	25%
Set Precast Box Culvert (PH1)	15%	100%	
Switch Traffic to PH2	15%		50%
Demolition of Existing Bridge (PH2)	15%		
Set Precast Box Culvert (PH2)	15%		75%
Substantial Completion	15%		100%
Final Acceptance	10%		

14-Day Detoured Structure			
Milestone	Payment Percentage of Contract Value	% Complete - Submitted and Approved in Sharepoint	
		SOS	CS-4171 / COC
Demolition of Existing Bridge	30%	50%	50%
Substantial Completion	60%	100%	100%
Final Acceptance	10%		

*Note: Every SOS, COC and QC Plans must be submitted and approved prior to relevant work beginning.



CJV MANAGED SUBCONTRACTOR & MATERIAL SUPPLIERS

Material Suppliers

Scope	Responsibility
Precast Girders	CJV
Box Culverts	CJV
Rebar	CJV
H-Pile	CJV
Steel Girders	CJV
Bearings	CJV
Temporary Signals	CJV
SIP	CJV
Precast Deck	CJV
Strip Seal Dams	CJV
Aesthetic Emblems	CJV

Subcontractors

Scope	Responsibility
Guiderail	CJV
Precast Girder Erection	CJV
Steel Girder Erection	CJV
Dynamic Pile Testing	CJV
Polyester Overlay	CJV



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General Contractor Bridge Bundles

BID LETTING PRICE COMBINATION FORM

BID LETTING **4/2/2015**



COMBINED PRICING (OPTIONAL)

COMPANY:	Walsh
PENNDOT BP ID:	XXXXX
CONTACT NAME:	Curtis Reppert
CONTACT PH #:	XXXXX

This form is to be submitted along with each Bid Letting Unit Price Bid Form, if Bidder has alternate Total Bid Amount pricing in the event of a multiple bridge award. Submission of this Bid Form is not required if Bidder's pricing does not vary in the event of a multiple bridge award.

Bidder has the option to provide multiple Bid Letting Pricing Options. If Bidder is awarded Projects based upon this Combined Pricing Form, Bidder must resubmit Bid Letting Unit Price Form within 7 days of award, matching the Total Bid Amounts listed in this Form.

JV #	Bridge Key	Bridge ID	District	County	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT	TOTAL BID AMOUNT
					OPTION #1	OPTION #2	OPTION #3	OPTION #4	OPTION #5	OPTION #6	OPTION #7	OPTION #8	OPTION #9
142	29947	51100700301853	04	Pike	\$ 750,000.00								
151	32401	57100700500000	04	Susquehanna	\$ 250,000.00								
153	32478	57200800203639	04	Susquehanna	\$ 560,000.00								
210	30862	53403900200000	05	Schuylkill	\$ 450,000.00								
373	8025	10200700101196	10	Butler	\$ 770,000.00	\$ 780,000.00							
376	8073	10301200500000	10	Butler	\$ 780,000.00	\$ 790,000.00							
414	1405	02101300202226	11	Allegheny	\$ 476,000.00	\$ 486,000.00	\$ 515,000.00						
422	1481	02200101300130	11	Allegheny	\$ 457,000.00	\$ 470,000.00	\$ 485,000.00						
431	1567	02204600800256	11	Allegheny	\$ 355,000.00	\$ 380,000.00	\$ 400,000.00						

OPTIONAL BID LETTING PRICING: \$ 4,848,000.00 \$ 2,906,000.00 \$ 1,400,000.00 \$ - \$ - \$ - \$ - \$ - \$ -

NOTE: CHECK BOX TO CERTIFY ALL UNIT PRICES AND BID TOTAL IS ACCURATE. ACKNOWLEDGE ALL DOCUMENTS, SPECS AND



Bid Letting – Budget vs. Low Bidder Negotiation



PENNSYLVANIA



Rapid Bridge Replacement Project

General Contractor Bridge Bundles

2016 PRBR Bid Letting Schedule

Bids	C Bridge #	Bridge Key	C Region	PennDOT District	County	WEBSITE POSTING	BID LETTING DATE	Anticipated Construction Start Date	Structure Type (B-Box Culvert) (I-Integral Brg) (F-Full Ht Brg)	CONTRACTOR SELECT <i>(Insert company name in the cell next to the bridges you have most interest)</i>
	1	12879	WEST	1	Crawford	01/12/16	01/26/16	6/27/2016	B	
	4	13122	WEST	1	Crawford	01/12/16	01/26/16	6/3/2016	I	
	35	9790	CENTRAL	2	Centre	01/12/16	01/26/16	6/7/2016	I	
	44	11698	CENTRAL	2	Clearfield	01/12/16	01/26/16	6/10/2016	B	
	55	20137	CENTRAL	2	Juniata	01/12/16	01/26/16	6/15/2016	B	
	134	33209	CENTRAL	3	Tioga	01/12/16	01/26/16	8/24/2016	I	
	145	32244	EAST	4	Susquehanna	01/12/16	01/26/16	6/16/2016	I	
	147	32308	EAST	4	Susquehanna	01/12/16	01/26/16	5/3/2016	I	
	156	35471	EAST	4	Wayne	01/12/16	01/26/16	6/10/2016	I	
	172	5147	EAST	5	Berks	01/12/16	01/26/16	6/16/2016	B	

Handout

PENNSYLVANIA

Rapid Bridge Replacement Project



CLOSING COMMENTS

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Rapid Bridge Replacement Project



QUESTIONS?