

**JEFFERSON TOWNSHIP, PREBLE COUNTY**  
**Pence-Shewman Road Culvert Replacement**

**Bid Breakdown**

Bid Date: Monday, September 14, 2015 @ 7:00 P.M.

**Engineer's Estimate -- Base Bid - \$215,000**

Item	Description	Quantity	Brumbaugh Construction				Sturm Construction, Inc.				VTF Excavation, LLC			
			Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost
<b>Base Bid - Culvert Replacement Structure #1</b>														
202	Existing Structure Removed	1 Lump	1,000.00	5,000.00	6,000.00	6,000.00	0.00	5,000.00	5,000.00	5,000.00	1,853.34	5,063.80	6,917.14	6,917.14
203	Excavation	78 C.Y.	7.00	8.00	15.00	1,170.00	0.00	100.00	100.00	7,800.00	0.00	15.67	15.67	1,222.26
203	Embankment	190 C.Y.	7.00	8.00	15.00	2,850.00	0.00	10.00	10.00	1,900.00	6.83	7.33	14.16	2,690.40
204	Subgrade Compaction	300 S.Y.	0.50	1.00	1.50	450.00	0.00	3.00	3.00	900.00	0.00	0.62	0.62	186.00
304	Compacted Aggregate Base	82.5 C.Y.	20.00	20.00	40.00	3,300.00	15.00	15.00	30.00	2,475.00	25.37	14.90	40.27	3,322.28
407	Tack Coat	30 Gal.	2.50	2.50	5.00	150.00	1.00	4.00	5.00	150.00	2.61	0.00	2.61	78.30
411	Stabilized Aggregate Berm	5.5 C.Y.	25.00	25.00	50.00	275.00	15.00	85.00	100.00	550.00	25.37	53.28	78.65	432.58
448	Asphalt Concrete Intermediate Course	21 C.Y.	150.00	150.00	300.00	6,300.00	100.00	150.00	250.00	5,250.00	278.00	6.97	284.97	5,984.37
448	Asphalt Concrete Surface Course, Type 1, PG 64-22	17 C.Y.	160.00	150.00	310.00	5,270.00	100.00	150.00	250.00	4,250.00	278.01	8.60	286.61	4,872.37
503	Unclassified Excavation (wing wall footing)	14.7 C.Y.	25.00	25.00	50.00	735.00	0.00	100.00	100.00	1,470.00	0.00	42.82	42.82	629.45
509	Epoxy Coated Reinforcing Steel	1,156 LBS	0.90	0.10	1.00	1,156.00	0.90	0.85	1.75	2,023.00	0.83	0.00	0.83	959.48
511	Class QC1 Concrete, Wingwalls	7 C.Y.	200.00	250.00	450.00	3,150.00	100.00	400.00	500.00	3,500.00	168.79	733.70	902.49	6,317.43
511	Class QC1 Concrete, Footings	18 C.Y.	150.00	200.00	350.00	6,300.00	100.00	400.00	500.00	9,000.00	143.51	366.59	510.10	9,181.80
511	Class QC1 Concrete, Headwalls	0.7 C.Y.	500.00	500.00	1,000.00	700.00	100.00	900.00	1,000.00	700.00	127.42	626.89	754.31	528.02
512	Sealing of Concrete Surface (Epoxy-Urethane)	11.6 S.Y.	50.00	50.00	100.00	1,160.00	8.00	12.00	20.00	232.00	28.76	25.22	53.98	626.17
512	Type 2 Waterproofing	38 S.Y.	7.00	8.00	15.00	570.00	10.00	10.00	20.00	760.00	7.53	11.55	19.08	725.04
512	Type 3 Waterproofing	37 S.Y.	15.00	15.00	30.00	1,110.00	15.00	15.00	30.00	1,110.00	18.53	23.72	42.25	1,563.25
516	1" Preformed Expansion Joint Filler	26 S.F.	0.75	0.75	1.50	39.00	2.00	8.00	10.00	260.00	1.51	2.81	4.32	112.32
518	Porous Backfill with Filter Fabric	25 C.Y.	20.00	25.00	45.00	1,125.00	20.00	20.00	40.00	1,000.00	29.07	51.08	80.15	2,003.75
601	Rip Rap Using 6" Reinforced Concrete Slab	14.4 S.Y.	40.00	40.00	80.00	1,152.00	50.00	50.00	100.00	1,440.00	49.55	60.38	109.93	1,582.99
601	Rock Channel Protection, Type B with Filter Fabric	22 C.Y.	25.00	30.00	55.00	1,210.00	20.00	40.00	60.00	1,320.00	42.74	12.70	55.44	1,219.68
603	7' x 4' Conduit, Type A, 706.05 Per Plan	32 L.F.	300.00	350.00	650.00	20,800.00	275.00	300.00	575.00	18,400.00	470.41	227.91	698.32	22,346.24
606	Anchor Assembly, MGS Type A	4 Each	600.00	600.00	1,200.00	4,800.00	1,500.00	500.00	2,000.00	8,000.00	1,274.18	0.00	1,274.18	5,096.72
606	Guardrail, Type MGS, Long Span 12.5'	25 L.F.	10.00	10.00	20.00	500.00	13.00	12.00	25.00	625.00	23.17	0.00	23.17	579.25
606	Guardrail, Type MGS	50 L.F.	10.00	10.00	20.00	1,000.00	13.00	12.00	25.00	1,250.00	21.43	0.00	21.43	1,071.50
611	4" Storm Drain Repair (all structures)	1 Each	50.00	50.00	100.00	100.00	100.00	400.00	500.00	500.00	32.43	228.58	261.01	261.01
611	6" Storm Drain Repair (all structures)	1 Each	60.00	65.00	125.00	125.00	100.00	400.00	500.00	500.00	64.87	228.57	293.44	293.44
611	8" Storm Drain Repair (all structures)	1 Each	75.00	75.00	150.00	150.00	100.00	400.00	500.00	500.00	97.30	228.58	325.88	325.88
659	Seeding & Mulching, As Per Plan	668 S.Y.	1.50	1.50	3.00	2,004.00	1.00	2.00	3.00	2,004.00	2.32	1.15	3.47	2,317.96
<b>Structure #1 Total:</b>						<b>73,651.00</b>				<b>82,869.00</b>				<b>83,447.07</b>
<b>Base Bid - Culvert Replacement Structure #2</b>														
202	Existing Structure Removed	1 Lump	1,000.00	4,000.00	5,000.00	5,000.00	0.00	5,000.00	5,000.00	5,000.00	1,112.01	2,991.94	4,103.95	4,103.95
203	Excavation	81 C.Y.	7.00	8.00	15.00	1,215.00	0.00	100.00	100.00	8,100.00	0.00	15.09	15.09	1,222.29
203	Embankment	140 C.Y.	7.00	8.00	15.00	2,100.00	0.00	10.00	10.00	1,400.00	4.88	7.46	12.34	1,727.60
204	Subgrade Compaction	224 S.Y.	0.50	1.00	1.50	336.00	0.00	3.00	3.00	672.00	0.00	0.62	0.62	138.88
304	Compacted Aggregate Base	55.0 C.Y.	20.00	20.00	40.00	2,200.00	20.00	10.00	30.00	1,650.00	25.37	15.04	40.41	2,222.55
407	Tack Coat	20 Gal.	2.50	2.50	5.00	100.00	1.00	4.00	5.00	100.00	2.61	0.00	2.61	52.20
411	Stabilized Aggregate Berm	5.0 C.Y.	25.00	25.00	50.00	250.00	20.00	80.00	100.00	500.00	25.37	58.61	83.98	419.90
448	Asphalt Concrete Intermediate Course	14 C.Y.	150.00	150.00	300.00	4,200.00	100.00	150.00	250.00	3,500.00	278.01	5.22	283.23	3,965.22
448	Asphalt Concrete Surface Course, Type 1, PG 64-22	11 C.Y.	160.00	150.00	310.00	3,410.00	100.00	150.00	250.00	2,750.00	278.00	6.65	284.65	3,131.15
503	Unclassified Excavation (wing wall footing)	14.7 C.Y.	35.00	35.00	70.00	1,029.00	0.00	100.00	100.00	1,470.00	0.00	42.82	42.82	629.45
509	Epoxy Coated Reinforcing Steel	1,179 LBS	0.90	0.10	1.00	1,179.00	0.90	0.85	1.75	2,063.25	0.83	0.00	0.83	978.57
511	Class QC1 Concrete, Wingwalls	7 C.Y.	200.00	250.00	450.00	3,150.00	100.00	400.00	500.00	3,500.00	168.79	733.70	902.49	6,317.43
511	Class QC1 Concrete, Footings	18 C.Y.	150.00	200.00	350.00	6,300.00	100.00	400.00	500.00	9,000.00	143.51	366.59	510.10	9,181.80
511	Class QC1 Concrete, Headwalls	0.7 C.Y.	500.00	500.00	1,000.00	700.00	100.00	900.00	1,000.00	700.00	127.42	626.89	754.31	528.02
512	Sealing of Concrete Surface (Epoxy-Urethane)	11.6 S.Y.	50.00	50.00	100.00	1,160.00	10.00	10.00	20.00	232.00	28.76	25.22	53.98	626.17
512	Type 2 Waterproofing	30 S.Y.	7.00	8.00	15.00	450.00	10.00	10.00	20.00	600.00	7.53	14.63	22.16	664.80
512	Type 3 Waterproofing	28 S.Y.	15.00	15.00	30.00	840.00	15.00	15.00	30.00	840.00	18.53	23.51	42.04	1,177.12
516	1" Preformed Expansion Joint Filler	24 S.F.	0.75	0.75	1.50	36.00	1.00	9.00	10.00	240.00	1.50	3.05	4.55	109.20
518	Porous Backfill with Filter Fabric	25 C.Y.	20.00	25.00	45.00	1,125.00	20.00	20.00	40.00	1,000.00	29.07	51.08	80.15	2,003.75
601	Rip Rap Using 6" Reinforced Concrete Slab	15.0 S.Y.	40.00	40.00	80.00	1,200.00	50.00	50.00	100.00	1,500.00	47.84	57.96	105.80	1,587.00
601	Rock Channel Protection, Type B with Filter Fabric	19 C.Y.	30.00	30.00	60.00	1,140.00	20.00	40.00	60.00	1,140.00	42.75	14.70	57.45	1,091.55
603	5' x 3' Conduit, Type A, 706.05 Per Plan	32 L.F.	300.00	300.00	600.00	19,200.00	220.00	300.00	520.00	16,640.00	386.16	200.35	586.51	18,768.32
606	Anchor Assembly, MGS Type A	4 Each	600.00	600.00	1,200.00	4,800.00	1,000.00	500.00	1,500.00	6,000.00	1,274.18	0.00	1,274.18	5,096.72
606	Guardrail, Type MGS, Long Span	25 L.F.	10.00	10.00	20.00	500.00	13.00	12.00	25.00	625.00	23.17	0.00	23.17	579.25
606	Guardrail, Type MGS	50 L.F.	10.00	10.00	20.00	1,000.00	13.00	12.00	25.00	1,250.00	21.43	0.00	21.43	1,071.50
614	Maintaining Traffic (all structures)	1 Lump	586.00	2,000.00	2,586.00	2,586.00	1,000.00	3,000.00	4,000.00	4,000.00	9,150.88	731.38	9,882.26	9,882.26
611	12" Storm Drain Repair (all structures)	1 Each	100.00	100.00	200.00	200.00	100.00	400.00	500.00	500.00	129.73	228.58	358.31	358.31
659	Seeding & Mulching, As Per Plan	460 S.Y.	1.50	1.50	3.00	1,380.00	1.00	2.00	3.00	1,380.00	2.31	1.12	3.43	1,577.80
<b>Structure #2 Total:</b>						<b>66,786.00</b>				<b>76,352.25</b>				<b>79,212.76</b>

**JEFFERSON TOWNSHIP, PREBLE COUNTY**  
**Pence-Shewman Road Culvert Replacement**

Bid Breakdown

Bid Date: Monday, September 14, 2015 @ 7:00 P.M.

**Engineer's Estimate -- Base Bid - \$215,000**

Item	Description	Quantity	Brumbaugh Construction				Sturm Construction, Inc.				VTF Excavation, LLC			
			Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost
<b>Base Bid - Culvert Replacement Structure #3</b>														
202	Existing Structure Removed	1 Lump	1,000.00	4,000.00	5,000.00	5,000.00	0.00	2,000.00	2,000.00	2,000.00	926.67	3,015.11	3,941.78	3,941.78
203	Excavation	78 C.Y.	7.00	8.00	15.00	1,170.00	0.00	100.00	100.00	7,800.00	0.00	15.67	15.67	1,222.26
203	Embankment	110 C.Y.	7.00	8.00	15.00	1,650.00	0.00	10.00	10.00	1,100.00	3.37	9.49	12.86	1,414.60
204	Subgrade Compaction	300 S.Y.	0.50	1.00	1.50	450.00	0.00	3.00	3.00	900.00	0.00	0.62	0.62	186.00
304	Compacted Aggregate Base	55 C.Y.	20.00	20.00	40.00	2,200.00	20.00	10.00	30.00	1,650.00	25.36	15.24	40.60	2,233.00
407	Tack Coat	20 Gal.	2.50	2.50	5.00	100.00	1.00	4.00	5.00	100.00	2.61	0.00	2.61	52.20
411	Stabilized Aggregate Berm	4 C.Y.	25.00	25.00	50.00	200.00	20.00	80.00	100.00	400.00	25.37	73.27	98.64	394.56
448	Asphalt Concrete Intermediate Course	14 C.Y.	150.00	150.00	300.00	4,200.00	100.00	150.00	250.00	3,500.00	278.01	5.22	283.23	3,965.22
448	Asphalt Concrete Surface Course, Type 1, PG 64-22	11 C.Y.	160.00	150.00	310.00	3,410.00	100.00	150.00	250.00	2,750.00	278.00	6.65	284.65	3,131.15
503	Unclassified Excavation (wing wall footing)	15 C.Y.	35.00	35.00	70.00	1,029.00	0.00	100.00	100.00	1,470.00	0.00	42.82	42.82	629.45
509	Epoxy Coated Reinforcing Steel	1,534 LBS	0.90	0.10	1.00	1,534.00	0.90	0.85	1.75	2,684.50	0.83	0.00	0.83	1,273.22
511	Class QC1 Concrete, Wingwalls	7 C.Y.	200.00	250.00	450.00	3,150.00	100.00	400.00	500.00	3,500.00	168.79	733.70	902.49	6,317.43
511	Class QC1 Concrete, Footing	18 C.Y.	150.00	200.00	350.00	6,300.00	100.00	400.00	500.00	9,000.00	143.51	366.59	510.10	9,181.80
511	Class QC1 Concrete, Headwalls	1 C.Y.	500.00	500.00	1,000.00	700.00	100.00	900.00	1,000.00	700.00	127.42	626.89	754.31	528.02
512	Sealing of Concrete Surface (Epoxy-Urethane)	12 S.Y.	50.00	50.00	100.00	1,160.00	10.00	10.00	20.00	232.00	28.76	25.22	53.98	626.17
512	Type 2 Waterproofing	38 S.Y.	7.00	8.00	15.00	570.00	10.00	10.00	20.00	760.00	7.53	11.55	19.08	725.04
512	Type 3 Waterproofing	37 S.Y.	15.00	15.00	30.00	1,110.00	15.00	15.00	30.00	1,110.00	18.53	17.79	36.32	1,343.84
516	1" Preformed Expansion Joint Filler	26 S.F.	0.75	0.75	1.50	39.00	1.00	9.00	10.00	260.00	1.51	2.81	4.32	112.32
518	Porous Backfill with Filter Fabric	25 C.Y.	20.00	25.00	45.00	1,125.00	20.00	20.00	40.00	1,000.00	29.07	51.08	80.15	2,003.75
601	Rip Rap Using 6" Reinforced Concrete Slab	14 S.Y.	40.00	40.00	80.00	1,152.00	50.00	50.00	100.00	1,440.00	49.55	60.38	109.93	1,582.99
601	Rock Channel Protection, Type B with Filter Fabric	22 C.Y.	30.00	30.00	60.00	1,320.00	20.00	40.00	60.00	1,320.00	42.74	12.70	55.44	1,219.68
603	6' x 3' Conduit, Type A, 706.05 Per Plan	32 L.F.	300.00	325.00	625.00	20,000.00	240.00	300.00	540.00	17,280.00	410.95	223.81	634.76	20,312.32
606	Anchor Assembly, MGS Type A	4 Each	600.00	600.00	1,200.00	4,800.00	1,000.00	500.00	1,500.00	6,000.00	1,274.18	0.00	1,274.18	5,096.72
606	Guardrail, Type MGS, Long Span 12.5'	25 L.F.	10.00	10.00	20.00	500.00	13.00	12.00	25.00	625.00	23.17	0.00	23.17	579.25
606	Guardrail, Type MGS	50 S.F.	10.00	10.00	20.00	1,000.00	13.00	12.00	25.00	1,250.00	21.43	0.00	21.43	1,071.50
659	Seeding & Mulching, As Per Plan	380 S.Y.	1.50	1.50	3.00	1,140.00	1.00	3.00	3.00	1,140.00	2.32	1.35	3.67	1,394.60
	<b>Structure #3 Total:</b>					<b>65,009.00</b>				<b>69,971.50</b>				<b>70,538.87</b>
<b>TOTAL BASE BID WITH ALL STRUCTURES:</b>						<b>\$205,446.00</b>			<b>\$229,192.75</b>				<b>\$233,198.70</b>	

**JEFFERSON TOWNSHIP, PREBLE COUNTY**  
**Pence-Shewman Road Culvert Replacement**

**Bid Breakdown**

Bid Date: Monday, September 14, 2015 @ 7:00 P.M.

**Engineer's Estimate -- Base Bid - \$215,000**

Item	Description	Quantity	W.G. Stang				J.L. Kuck General Contractors				Barrett Paving Materials, Inc.			
			Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost
<b>Base Bid - Culvert Replacement Structure #1</b>														
202	Existing Structure Removed	1 Lump	0.00	5,000.00	5,000.00	5,000.00	6,000.00	6,500.00	12,500.00	12,500.00	0.00	900.00	900.00	900.00
203	Excavation	78 C.Y.	0.00	20.00	20.00	1,560.00	30.00	30.00	60.00	4,680.00	0.00	29.00	29.00	2,262.00
203	Embankment	190 C.Y.	0.00	20.00	20.00	3,800.00	30.00	35.00	65.00	12,350.00	5.00	25.00	30.00	5,700.00
204	Subgrade Compaction	300 S.Y.	0.00	1.00	1.00	300.00	3.00	1.50	4.50	1,350.00	0.00	3.50	3.50	1,050.00
304	Compacted Aggregate Base	82.5 C.Y.	25.00	25.00	50.00	4,125.00	25.00	25.00	50.00	4,125.00	30.00	22.00	52.00	4,290.00
407	Tack Coat	30 Gal.	0.50	0.50	1.00	30.00	1.00	1.52	2.52	75.60	2.35	0.00	2.35	70.50
411	Stabilized Aggregate Berm	5.5 C.Y.	25.00	175.00	200.00	1,100.00	30.00	40.00	70.00	385.00	30.00	90.00	120.00	660.00
448	Asphalt Concrete Intermediate Course	21 C.Y.	100.00	150.00	250.00	5,250.00	130.00	138.80	268.80	5,644.80	95.00	95.00	190.00	3,990.00
448	Asphalt Concrete Surface Course, Type 1, PG 64-22	17 C.Y.	100.00	150.00	250.00	4,250.00	130.00	138.80	268.80	4,569.60	110.00	125.00	235.00	3,995.00
503	Unclassified Excavation (wing wall footing)	14.7 C.Y.	0.00	20.00	20.00	294.00	40.00	30.00	70.00	1,029.00	20.00	30.00	50.00	735.00
509	Epoxy Coated Reinforcing Steel	1,156 LBS	0.75	0.25	1.00	1,156.00	0.85	0.90	1.75	2,023.00	1.00	0.70	1.70	1,965.20
511	Class QC1 Concrete, Wingwalls	7 C.Y.	100.00	1,150.00	1,250.00	8,750.00	125.00	1,000.00	1,125.00	7,875.00	300.00	800.00	1,100.00	7,700.00
511	Class QC1 Concrete, Footings	18 C.Y.	100.00	400.00	500.00	9,000.00	150.00	200.00	350.00	6,300.00	200.00	300.00	500.00	9,000.00
511	Class QC1 Concrete, Headwalls	0.7 C.Y.	100.00	1,150.00	1,250.00	875.00	200.00	1,000.00	1,200.00	840.00	500.00	3,500.00	4,000.00	2,800.00
512	Sealing of Concrete Surface (Epoxy-Urethane)	11.6 S.Y.	10.00	40.00	50.00	580.00	9.00	18.00	27.00	313.20	90.00	60.00	150.00	1,740.00
512	Type 2 Waterproofing	38 S.Y.	10.00	30.00	40.00	1,520.00	10.00	26.00	36.00	1,368.00	45.00	25.00	70.00	2,660.00
512	Type 3 Waterproofing	37 S.Y.	20.00	30.00	50.00	1,850.00	20.00	34.00	54.00	1,998.00	50.00	30.00	80.00	2,960.00
516	1" Preformed Expansion Joint Filler	26 S.F.	2.50	2.50	5.00	130.00	2.00	5.00	7.00	182.00	2.00	6.00	8.00	208.00
518	Porous Backfill with Filter Fabric	25 C.Y.	25.00	5.00	30.00	750.00	30.00	30.00	60.00	1,500.00	35.00	32.00	67.00	1,675.00
601	Rip Rap Using 6" Reinforced Concrete Slab	14.4 S.Y.	50.00	150.00	200.00	2,880.00	45.00	54.00	99.00	1,425.60	10.00	64.00	74.00	1,065.60
601	Rock Channel Protection, Type B with Filter Fabric	22 C.Y.	40.00	60.00	100.00	2,200.00	50.00	60.00	110.00	2,420.00	80.00	42.00	122.00	2,684.00
603	7' x 4' Conduit, Type A, 706.05 Per Plan	32 L.F.	350.00	400.00	750.00	24,000.00	308.00	150.00	458.00	14,656.00	450.00	250.00	700.00	22,400.00
606	Anchor Assembly, MGS Type A	4 Each	750.00	450.00	1,200.00	4,800.00	800.00	490.00	1,290.00	5,160.00	660.00	440.00	1,100.00	4,400.00
606	Guardrail, Type MGS, Long Span 12.5'	25 L.F.	15.00	10.00	25.00	625.00	12.00	12.00	24.00	600.00	12.00	8.00	20.00	500.00
606	Guardrail, Type MGS	50 L.F.	15.00	10.00	25.00	1,250.00	12.00	12.00	24.00	1,200.00	12.00	6.50	18.50	925.00
611	4" Storm Drain Repair (all structures)	1 Each	50.00	50.00	100.00	100.00	250.00	500.00	750.00	750.00	50.00	70.00	120.00	120.00
611	6" Storm Drain Repair (all structures)	1 Each	50.00	50.00	100.00	100.00	300.00	500.00	800.00	800.00	60.00	70.00	130.00	130.00
611	8" Storm Drain Repair (all structures)	1 Each	50.00	50.00	100.00	100.00	350.00	500.00	850.00	850.00	70.00	70.00	140.00	140.00
659	Seeding & Mulching, As Per Plan	668 S.Y.	0.50	1.50	2.00	1,336.00	5.01	2.82	7.83	5,230.44	5.00	4.50	9.50	6,346.00
<b>Structure #1 Total:</b>						<b>87,711.00</b>	<b>102,200.24</b>				<b>93,071.30</b>			
<b>Base Bid - Culvert Replacement Structure #2</b>														
202	Existing Structure Removed	1 Lump	0.00	5,000.00	5,000.00	5,000.00	5,000.00	5,500.00	10,500.00	10,500.00	800.00	1,300.00	2,100.00	2,100.00
203	Excavation	81 C.Y.	0.00	20.00	20.00	1,620.00	30.00	30.00	60.00	4,860.00	0.00	29.00	29.00	2,349.00
203	Embankment	140 C.Y.	0.00	20.00	20.00	2,800.00	30.00	35.00	65.00	9,100.00	5.00	30.00	35.00	4,900.00
204	Subgrade Compaction	224 S.Y.	0.00	1.00	1.00	224.00	3.00	1.50	4.50	1,008.00	0.00	5.00	5.00	1,120.00
304	Compacted Aggregate Base	55.0 C.Y.	25.00	25.00	50.00	2,750.00	25.00	25.00	50.00	2,750.00	30.00	28.00	58.00	3,190.00
407	Tack Coat	20 Gal.	0.50	0.50	1.00	20.00	1.00	1.52	2.52	50.40 *	2.35	0.00	2.35	47.00
411	Stabilized Aggregate Berm	5.0 C.Y.	25.00	175.00	200.00	1,000.00	30.00	40.00	70.00	350.00	30.00	96.00	126.00	630.00
448	Asphalt Concrete Intermediate Course	14 C.Y.	100.00	150.00	250.00	3,500.00	130.00	138.80	268.80	3,763.20	95.00	150.00	245.00	3,430.00
448	Asphalt Concrete Surface Course, Type 1, PG 64-22	11 C.Y.	100.00	150.00	250.00	2,750.00	130.00	138.80	268.80	2,956.80 *	110.00	198.00	308.00	3,388.00
503	Unclassified Excavation (wing wall footing)	14.7 C.Y.	0.00	20.00	20.00	294.00	40.00	30.00	70.00	1,029.00	20.00	30.00	50.00	735.00
509	Epoxy Coated Reinforcing Steel	1,179 LBS	0.75	0.25	1.00	1,179.00	0.85	0.90	1.75	2,063.25 *	1.00	0.70	1.70	2,004.30
511	Class QC1 Concrete, Wingwalls	7 C.Y.	100.00	1,150.00	1,250.00	8,750.00	125.00	1,000.00	1,125.00	7,875.00	300.00	800.00	1,100.00	7,700.00
511	Class QC1 Concrete, Footings	18 C.Y.	100.00	400.00	500.00	9,000.00	150.00	200.00	350.00	6,300.00	200.00	270.00	470.00	8,460.00
511	Class QC1 Concrete, Headwalls	0.7 C.Y.	100.00	1,150.00	1,250.00	875.00	200.00	1,000.00	1,200.00	840.00	500.00	3,500.00	4,000.00	2,800.00
512	Sealing of Concrete Surface (Epoxy-Urethane)	11.6 S.Y.	10.00	40.00	50.00	580.00	9.00	18.00	27.00	313.20	90.00	60.00	150.00	1,740.00
512	Type 2 Waterproofing	30 S.Y.	10.00	30.00	40.00	1,200.00	10.00	26.00	36.00	1,080.00	45.00	35.00	80.00	2,400.00
512	Type 3 Waterproofing	28 S.Y.	20.00	30.00	50.00	1,400.00	20.00	34.00	54.00	1,512.00	50.00	40.00	90.00	2,520.00
516	1" Preformed Expansion Joint Filler	24 S.F.	2.50	2.50	5.00	120.00	2.00	5.00	7.00	168.00	2.00	6.50	8.50	204.00
518	Porous Backfill with Filter Fabric	25 C.Y.	25.00	5.00	30.00	750.00	30.00	30.00	60.00	1,500.00	35.00	32.00	67.00	1,675.00
601	Rip Rap Using 6" Reinforced Concrete Slab	15.0 S.Y.	50.00	150.00	200.00	3,000.00	45.00	54.00	99.00	1,485.00	10.00	61.00	71.00	1,065.00
601	Rock Channel Protection, Type B with Filter Fabric	19 C.Y.	40.00	60.00	100.00	1,900.00	50.00	60.00	110.00	2,090.00	80.00	49.00	129.00	2,451.00
603	5' x 3' Conduit, Type A, 706.05 Per Plan	32 L.F.	300.00	350.00	650.00	20,800.00	247.00	150.00	397.00	12,704.00	380.00	230.00	610.00	19,520.00
606	Anchor Assembly, MGS Type A	4 Each	750.00	450.00	1,200.00	4,800.00	800.00	490.00	1,290.00	5,160.00	660.00	440.00	1,100.00	4,400.00
606	Guardrail, Type MGS, Long Span	25 L.F.	15.00	10.00	25.00	625.00	12.00	12.00	24.00	600.00	12.00	8.00	20.00	500.00
606	Guardrail, Type MGS	50 L.F.	15.00	10.00	25.00	1,250.00	12.00	12.00	24.00	1,200.00	12.00	6.50	18.50	925.00
614	Maintaining Traffic (all structures)	1 Lump	0.00	7,500.00	7,500.00	7,500.00	5,000.00	6,186.00	11,186.00	11,186.00	5,000.00	24,634.40	29,634.40	29,634.40
611	12" Storm Drain Repair (all structures)	1 Each	50.00	50.00	100.00	100.00	400.00	500.00	900.00	900.00	80.00	70.00	150.00	150.00
659	Seeding & Mulching, As Per Plan	460 S.Y.	0.50	2.00	2.50	1,150.00	5.01	2.82	7.83	3,601.80	5.00	4.60	9.60	4,416.00
<b>Structure #2 Total:</b>						<b>84,937.00</b>	<b>96,945.65</b>				<b>114,453.70</b>			

**JEFFERSON TOWNSHIP, PREBLE COUNTY**  
**Pence-Shewman Road Culvert Replacement**

**Bid Breakdown**

Bid Date: Monday, September 14, 2015 @ 7:00 P.M.

**Engineer's Estimate -- Base Bid - \$215,000**

Item	Description	Quantity	W.G. Stang				J.L. Kuck General Contractors				Barrett Paving Materials, Inc.			
			Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost	Material Price	Labor Price	Total Unit Cost	Total Cost
<b>Base Bid - Culvert Replacement Structure #3</b>														
202	Existing Structure Removed	1 Lump	0.00	5,000.00	5,000.00	5,000.00	5,000.00	5,500.00	10,500.00	10,500.00	0.00	400.00	400.00	400.00
203	Excavation	78 C.Y.	0.00	20.00	20.00	1,560.00	30.00	30.00	60.00	4,680.00	0.00	29.00	29.00	2,262.00
203	Embankment	110 C.Y.	0.00	20.00	20.00	2,200.00	30.00	35.00	65.00	7,150.00	5.00	39.00	44.00	4,840.00
204	Subgrade Compaction	300 S.Y.	0.00	1.00	1.00	300.00	3.00	1.50	4.50	1,350.00	0.00	3.50	3.50	1,050.00
304	Compacted Aggregate Base	55 C.Y.	25.00	25.00	50.00	2,750.00	25.00	25.00	50.00	2,750.00	30.00	24.00	54.00	2,970.00
407	Tack Coat	20 Gal.	0.50	0.50	1.00	20.00	1.00	1.52	2.52	50.40 *	2.35	0.00	2.35	47.00
411	Stabilized Aggregate Berm	4 C.Y.	25.00	175.00	200.00	800.00	30.00	40.00	70.00	280.00	30.00	120.00	150.00	600.00
448	Asphalt Concrete Intermediate Course	14 C.Y.	100.00	150.00	250.00	3,500.00	130.00	138.80	268.80	3,763.20	95.00	150.00	245.00	3,430.00
448	Asphalt Concrete Surface Course, Type 1, PG 64-22	11 C.Y.	100.00	150.00	250.00	2,750.00	130.00	138.80	268.80	2,956.80 *	110.00	198.00	308.00	3,388.00
503	Unclassified Excavation (wing wall footing)	15 C.Y.	0.00	20.00	20.00	294.00	40.00	30.00	70.00	1,029.00	20.00	30.00	50.00	735.00
509	Epoxy Coated Reinforcing Steel	1,534 LBS	0.75	0.25	1.00	1,534.00	0.85	0.90	1.75	2,684.50	1.00	0.60	1.60	2,454.40
511	Class QC1 Concrete, Wingwalls	7 C.Y.	100.00	1,150.00	1,250.00	8,750.00	125.00	1,000.00	1,125.00	7,875.00	300.00	800.00	1,100.00	7,700.00
511	Class QC1 Concrete, Footing	18 C.Y.	100.00	400.00	500.00	9,000.00	150.00	200.00	350.00	6,300.00	200.00	270.00	470.00	8,460.00
511	Class QC1 Concrete, Headwalls	1 C.Y.	100.00	1,150.00	1,250.00	875.00	200.00	1,000.00	1,200.00	840.00	500.00	3,500.00	4,000.00	2,800.00
512	Sealing of Concrete Surface (Epoxy-Urethane)	12 S.Y.	10.00	40.00	50.00	580.00	9.00	18.00	27.00	313.20	90.00	60.00	150.00	1,740.00
512	Type 2 Waterproofing	38 S.Y.	10.00	30.00	40.00	1,520.00	10.00	26.00	36.00	1,368.00	45.00	27.00	72.00	2,736.00
512	Type 3 Waterproofing	37 S.Y.	20.00	30.00	50.00	1,850.00	20.00	34.00	54.00	1,998.00	50.00	32.00	82.00	3,034.00
516	1" Preformed Expansion Joint Filler	26 S.F.	2.50	2.50	5.00	130.00	2.00	5.00	7.00	182.00	2.00	6.00	8.00	208.00
518	Porous Backfill with Filter Fabric	25 C.Y.	25.00	5.00	30.00	750.00	30.00	30.00	60.00	1,500.00	35.00	32.00	67.00	1,675.00
601	Rip Rap Using 6" Reinforced Concrete Slab	14 S.Y.	50.00	150.00	200.00	2,880.00	45.00	54.00	99.00	1,425.60	10.00	64.00	74.00	1,065.60
601	Rock Channel Protection, Type B with Filter Fabric	22 C.Y.	40.00	60.00	100.00	2,200.00	50.00	60.00	110.00	2,420.00	80.00	42.00	122.00	2,684.00
603	6' x 3' Conduit, Type A, 706.05 Per Plan	32 L.F.	300.00	350.00	650.00	20,800.00	269.00	150.00	419.00	13,408.00	400.00	250.00	650.00	20,800.00
606	Anchor Assembly, MGS Type A	4 Each	750.00	450.00	1,200.00	4,800.00	800.00	490.00	1,290.00	5,160.00	660.00	440.00	1,100.00	4,400.00
606	Guardrail, Type MGS, Long Span 12.5'	25 L.F.	15.00	10.00	25.00	625.00	12.00	12.00	24.00	600.00	12.00	8.00	20.00	500.00
606	Guardrail, Type MGS	50 S.F.	15.00	10.00	25.00	1,250.00	12.00	12.00	24.00	1,200.00	12.00	6.50	18.50	925.00
659	Seeding & Mulching, As Per Plan	380 S.Y.	0.50	2.50	3.00	1,140.00	5.01	2.82	7.83	2,975.40	5.00	4.75	9.75	3,705.00
	<b>Structure #3 Total:</b>					<b>77,858.00</b>				<b>84,759.10</b>				<b>84,609.00</b>
<b>TOTAL BASE BID WITH ALL STRUCTURES:</b>						<b><u>\$250,506.00</u></b>				<b><u>\$283,904.99 *</u></b>				<b><u>\$292,134.00</u></b>

\*Bid Adjusted due to Multiplication Error