



PINAL COUNTY PUBLIC WORKS

To: **PROSPECTIVE BIDDERS**

Date: March 5, 2015

Project Name: Maricopa Casa Grande Highway Santa Cruz Wash Crossing Improvements

Project Number: 62953157

Enclosed: Addendum #1 pages 1 thru 8, Bid Schedule Page BS1 Revised 3 4 2015, Box Culvert Quantities – Steel & Concrete Estimate Pages 1, 2, & 3, UPRR Letter dated March 3, 2015.

Addendum #1

The following clarifications shall be included with Volume 1 of the Invitation For Bids Packet for this project and made a part thereof. All items shown on the plans and Volume 1 of the Bids Packet shall remain unchanged except as specified herein.

Volume 1 of Bids Packet:

1. **Pages BS1 & BS2** dated February 27, 2015 revised and attached here to supersede the original and shall be affixed and included as a part of the contract documents.
2. **Page TPS-3, (Non Pay Item - NPI), Testing**, revise item 2. To read: "The frequency of ABC and structural backfill samples taken shall be a minimum of one sample per 1000 Tons of material installed. Concrete sampling frequency shall be per MAG Specification Section 725."
3. **Page TPS-4, (NPI), Ak-Chin Indian Community**, delete the sentence: "Contractor shall make themselves aware of any labor requirements, taxes, fees, licenses, permits or conditions that may be imposed by the Ak-Chin Indian Community on work performed." And add the following: There are no formal labor requirements, taxes, fees, or licenses that will be imposed by the Ak-Chin Indian Community. As a courtesy, contractor may post any job opportunities with the Ak-Chin Human Resource Office.

The conditions from Ak-Chin Indian Community are listed in Appendix A of the Bids Packet. Referencing Appendix A delete "Contact Ms. Velacita Lopez, Acting Manager, at (520) 568-1367" and replace with "Contact Caroline Antone, Cultural Resource Manager at (520) 568-1372. No work will be started until the contractor has obtained concurrence from cultural resource manager and is accepted by the Engineer." Also, add the following: "Prior to starting construction, contact Jerry Owen, Planning Director at (520) 568-1066 in reference to maintaining emergency access and access to businesses such as Hickman's eggs and others."

PUBLIC WORKS DEPARTMENT

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4. **Page TPS-6, Union Pacific Rail Road (UPRR), (Also see UPRR Flagman & ROE Allowance)**, After the sentence “Pinal County has entered into a Right-of-Entry Agreement with UPRR that is included in Appendix B of these Technical Provisions and Specifications.” Add the following: “The ROE agreement with UPRR included in Appendix B is renewed and/or extended through December 31, 2015 as indicated by letter from UPRR dated March 3, 2015 included with this addendum. The Contractor shall obtain his/her own Right of Entry Permit from UPRR. No work will be started until the contractor has obtained a ROE from UPRR in writing and is accepted by the Engineer.” In this same section, delete the contact name and number “Ray Johnson, Manager of Track, Cell: 209 815-0306” and replace with “Joaquin Rodriguez, Manager of Track, Cell: 928-246-0233.”
5. **Page TPS-9, “1. Traffic Control”**, delete the sentence “The traffic control devices are shown in the project plans such that portions of the temporary concrete barrier protecting the work zone shall be removed by the contractor when flows through the wash are anticipated.” And replace with the following: “As a part of the Contractor’s traffic control plan, he/she shall include provisions to allow flow for the Santa Cruz Wash to flow through the project site unimpeded. No work will be started until the contractor’s traffic control plan is accepted by the Engineer.”
6. **TPS-10, “3. Surveying”**, delete this section in its entirety and replace with the following:

“The Contractor shall be responsible to provide all survey work including, but not limited to, the establishment of horizontal and vertical controls for roadway, all construction staking, structures, alignment and elevation. All monuments disturbed during the construction process shall be replaced by the Contractor at the Contractor’s expense under the direction of a Registered Land Surveyor, registered in the State of Arizona.

Subgrade construction blue stake hubs shall be set on a cross-section pattern consisting of stakes set at the left hinge point, construction centerline, and right hinge point for horizontal alignment and grade control. Hubs on one side of road shall be accompanied with lath indicating station location. Subgrade construction staking for alignment and grade control shall be set at a minimum of fifty foot intervals on tangents and fifty foot intervals on curves or as determined by the County Engineer or designated representative.

Finished aggregate base shall be blue topped on a cross section pattern consisting of blue tops set at the left edge of pavement, construction centerline, and right edge of pavement for horizontal alignment and grade control. Said blue tops shall be set at a minimum of fifty foot intervals on tangents and fifty foot intervals on curves or as determined by the County Engineer or designated representative. The Registered Land Surveyor for this project shall certify As-Built drawings for this project and submit said As-Built drawings to the Engineer within 15 calendar days from the completion date for this project. As-Built Plans final submission requires: (1) 24”x36” Mylar set and (1) Digital copy either in TIFF or PDF format. Payment shall be lump sum in accordance with Bid Schedule for all work complete and in place.”



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7. **Page TPS-10, change the Title to read: “4. Roadway Excavation & Embankment”**, Revise the second to last sentence to read as follows: “Not including the quantities for structural excavation and not including loss due to shrinkage and not including increase due to compaction, an estimated quantity of 7000 CY is included with Roadway Excavation and Embankment to account for the detour route being 2400 feet long, 40 feet wide and an estimated 1 feet deep. Measurement area for Roadway Excavation = $2170 + 2001 + 7000 = 11,171$ CY. Payment for this item shall be per Cubic Yard (CY) according to the bid schedule for all work complete and in place. No separate payment will be made for loss due to shrinkage and increase due to compaction.”
8. **Page TPS-11, “5. Structural Excavation and Backfill”**, Revise the second to last sentence to read as follows: “Payment shall be per Cubic Yard (CY) according to the bid schedule for all work complete and in place.”
Also add the following: “Excepting out the quantities for roadway excavation and embankment and excepting out loss due to shrinkage and increase due to compaction, the quantities for structural excavation and backfill are estimated from sheet 2 of the plans for Structural Excavation, Pipe Drainage Excavation, CBC Drainage Excavation, CBC Structure Backfill, Pipe Backfill, and CBC Culvert Backfill. No separate payment will be made for loss due to shrinkage and increase due to compaction.”
9. **Page TPS-11, “6. Remove Existing AC Pavement”**, delete this section in its entirety and replace with the following: “**6. Remove Asphalt by Milling for New Pavement and Bridges**, Where shown on the plans as Pavement Structural Section Number 1, existing asphalt shall be milled to a depth of 9 inches to install the 16 inch deep structural section as shown on the plans and for bridge deck surfaces to be exposed to traffic where asphalt exists. All milling shall be accomplished per MAG Specification Section 317 and size of material shall be no greater than 3 inches minus. Milled material shall be removed from project site and delivered to Hidden Valley Yard. Measurement area is based on 11053SY for Structural Section Number 1 and 1241 SY for existing asphalt on bridge decks, Total = 12294SY. Payment for this item shall be made per Square Yard (SY) according to the bid schedule for all work complete. All other costs associated with this item is considered to be included in the overall bid price and no separate payment shall be made.”
10. **Page TPS-11, “7. Subgrade Preparation”**, after the second to last sentence add the following: “A quantity of 11053SY is estimated for Subgrade preparation area where pavement structural section 1 is to be constructed using take off of sheets 47 thru 58 of the plans. An estimated 7467SY is added to this take off quantity to account for Subgrade preparation in the detour area and 106 SY is added to account for Subgrade preparation in pavement widening for guardrails, Total = 18626SY.”
11. **Page TPS-12, “9. Aggregate Base Course”**, after the second to last sentence add the following: “A quantity of 5596Ton is estimated for AB in Pavement Structural Section 1 and 3024Ton is estimated for AB in Pavement Structural Section 2 and 54 Ton is added for guardrail widening for an estimated Total = 10545 Ton.



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12. **Page TPS-12**, change title to read “**10. 3” Asphalt Concrete for Paved Detour (A19mm) High Traffic Mix**”, about midway in first paragraph, revise the sentence to read: “The contractor shall place a minimum of three inches (3”) of asphaltic concrete and placement shall adhere to MAG Standard Specification Section 710.”
13. **Page TPS-13**, “**13. 3” Asphalt Concrete for Milled Pavement Overlay of Highway, (R-19mm, ¾” Mix)**”, after the first sentence add the following: Three inch overlay shall be installed in two lifts having 1-1/2” thickness each lift. After first 1-1/2” lift is installed, GlassGrid – TF pavement reinforcement shall be installed in accordance with manufacturer’s recommendations. After GlassGrid – TF is installed, contractor shall install the final 1-1/2” lift on top of the GlassGrid-TF.
14. **Page TPS-13**, “**14. Tack Coat**”, after the first sentence add the following: “Tack coat shall be applied between first and final lift of asphalt as shown on Pavement Structural Section 1 in the plans at a rate of 0.1 gal per square yard using a conversion of 240 gal/ton.”
15. **Page TPS-14**, “**Concrete Ribbon Curb**”, after the first sentence, add the following: “Contractor shall anchor ribbon curb onto top of concrete box with #4 rebar at 18 inches on center or approved equivalent as determined by the Engineer.”
16. **Page TPS-14**, “**19. Miscellaneous removals and Other Work**”, delete the following: “and 440”.
17. **Page TPS-15**, “**21. Guardrail**”, after the words “Standard Detail C-10.07” add the following “or accepted by the Engineer as Equivalent method of anchor.”
18. **Page TPS-17**, “**31. Structural Concrete ADOT Class S, f’c=3000 PSI**”, after the word “aprons” add the following “slope paving”. After the word “wing walls”, add the following: The surface of the new culverts shall be the driving surface where contractor shall construct the top of the box culverts to meet the lines and grades on the plans. Contractor shall ensure that the bridge deck surface exposed to traffic is smooth riding and have a finish per ADOT Specification Section 601. Also, prior to the second to last sentence on Page TPS-18, add the following: “A Box Culvert Quantities – Steel & Concrete estimate sheet is included with this addendum as a courtesy to the contractor and is not a part of the contract documents.”
19. **Page TPS-18**, “**33. 24” CMP**”, revise the words in first sentence to read: “ADOT Standard Details C-13.10 and C-13.25”. Also, add the following: “Quantity has been increased by 150 LF to account for additional temporary pipe for nuisance water.”
20. **Page TPS-18**, “**34. End Section for 24” Pipe Culvert**”, revise the first sentence to read: “End Sections for 24” Pipe Culvert shall meet the requirements of ADOT Standard Specification Section 501 and per ADOT Standard Detail C-13.25.”



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21. **Page TPS-18, “35. Clearing and Grubbing”**, replace the last sentence with the following:
Existing large rock and boulders within the limits of the Right-of-Way shall be removed and relocated to a location that will not impede or alter the flow of the Santa Cruz Wash and make way for new construction. The contractor shall propose a new location for the boulders to the Engineer for acceptance prior to moving them. Clearing and Grubbing shall also include removal of trees in the vicinity of the Murphy Road and Antone Road intersections to ensure sufficient sight visibility is available at these intersections as directed by project inspector. All other costs associated with this item including but not limited to relocating boulders and tree removal is considered to be included in the overall bid price and no separate payment will be made.”
22. **Page TPS-18, “36. Environmental Mitigation Compliance (Storm Water Pollution Prevention)”**, delete this section in its entirety. Requirements for SWPPP are included in item 42.
23. **Page TPS-18**, add the following: **“36. Tensar GlassGrid-TF Pavement Reinforcement for Mill & Overlay Area”**, Contractor shall install Tensar Glassgrid - TF (Tack Film) pavement reinforcement or approved equivalent as determined by the Engineer under new overlay area. Specifications for Glassgrid-TF may be found at: <http://www.tensarcorp.com/Systems-and-Products/GlasGrid-Pavement-Reinforcement-System> or contacting Aaron Schlessinger, manufacturer’s representative at (480) 215-3265. The pavement reinforcement shall be installed in accordance with manufacturer’s recommendations. Payment for pavement reinforcement shall be made per Square Yard (SY) of pavement reinforcement installed for all work complete and in place. All other costs associated with this item shall be included with the bid price.
24. **Page TPS-19, “37. Asphalt Milling”**, Delete this section in its entirety and replace with the following: **“37. Remove Asphalt by Milling for Overlay & Detour”**, Where shown on the plans as Pavement Structural Section Number 3, existing asphalt shall be milled to a maximum depth of 3 inches to install 3 inches of new asphalt overlay in areas shown on the plans. After the paved detour is no longer needed for traffic (Structural Section 2 revised for 3”AC /8” AB), shall be milled to a depth of 11 inches required to remove existing pavement & ABC. All milling shall be accomplished per MAG Specification Section 317 and size of material shall be no greater than 3 inches minus. Milled material shall be removed from project site and delivered to Hidden Valley Yard located at 43910 W. Meadowview Road, Maricopa, Az 85138-5138. Measurement area is based on 6782 SY for Structural Section Number 3 and 7467 SY for existing asphalt on detour road, Total = 14,249SY . Payment for this item shall be made per Square Yard (SY) according to the bid schedule for all work complete. All other costs associated with this item is considered to be included in the overall bid price and no separate payment shall be made.”
25. **Page TPS-20**, change the title to read **“41. UPRR Flagman & ROE Allowance”**, and at the end of first sentence after the words “UPRR Flagman”, add the following: “and adhere to all requirements of the UPRR ROE agreement. Contractor will be paid for work under this item pending acceptance by the Engineer.”



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26. **Page TPS-20, “38. Portable Message Board”**, Revise the second to last sentence to read “Three changeable message signs will be installed for one 72 hour period during beginning of the project. One sign will be on Murphy Road for detour and the other two on Maricopa Casa Grande Highway. Payment for changeable message signs shall be made per hour (HR) according to bid schedule for all materials, labor, and equipment necessary to furnish, operate, maintain, and relocate said signs for the duration of the sign usage.”
27. **Page TPS-21, change the title to read: “42. Arizona Pollutant Discharge Elimination System (AZPDES) & Storm Water Pollution Prevention Plan (SWPPP) Requirements.”** And replace the entire section with the following: “The Contractor shall submit a SWPPP in accordance with the requirements set forth by the Arizona Department of Environmental Quality Storm water Construction General Permit (CGP) 2013 found at: <http://www.azdeq.gov/environ/water/permits/cgp.html> to the Engineer for acceptance prior to start of construction. Contractor shall become familiar with and follow the “New Requirements for Construction Sites with Storm water Discharges” found on the fact sheet at the above mentioned web site. SWPPP shall include but not be limited to showing locations and quantities of silt fences, straw waddles and gravel track out areas to be installed using current Best Management Practices used on similar projects. Contractor shall submit a Notice of Intent (NOI) and Notice of Termination (NOT) to ADEQ at the start and end of the project respectively. Contractor shall post notification of SWPPP information on the project site and install SWPPP items prior to starting earthwork at the direction of the project inspector. A copy of the SWPPP plan shall be made available at the job site at all times for the project inspector and ADEQ representatives as necessary. Contractor shall monitor and maintain the SWPPP items during construction and remove said items prior to completion of the project at the direction of the project inspector. No work will be started until the contractor submits the NOI to ADEQ and contractor’s SWPPP Plan is accepted by the Engineer. Payment for AZPDES & SWPPP will be made under the appropriate item listed in the bid schedule for all work complete and in place. All other costs associated with the appropriate item shall be included with said item.
28. **Page TPS-21, “44. FEMA Floodplain”**, after the third sentence, add the following: “At the direction of the project inspector, Contractor shall install 2 each 24 inch diameter corrugated metal pipes each having a length of 75 feet under detour road in a location to direct nuisance flow thru the project site prior to removing existing nuisance pipes under new culvert to be installed. The new temporary pipes shall be removed when no longer needed for the detour. Contractor shall also channelize nuisance flows thru project site to minimize the need to close the detour road. As a part of the flood-plain use permit application, contractor shall submit a Flood Protection Plan that shall includes but is not be limited to installation and removal of temporary pipes, concrete cut-off walls (i.e.: ford walls), dip sections in detour road, check dams, temporary storm-water diversion channels, repair or replacement of detour road, and false work, and form-work lost due to major storm water event(s), excess material disposal sites and haul routes to said sites. No work will be started until the contractor’s FEMA Floodplain Plan is accepted by the Engineer. Plan shall accommodate all phases of the work to minimize loss of manpower, materials and equipment in the event of a flood. Unless payment is made under a separate item, payment for FEMA Floodplain will be made per Lump Sum (LS) according to the bid schedule.”



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29. **Page TPS-21**, add the following section: **“45. Silt Fence for SWPPP**, Contractor shall install silt fence 36” wide buried 8” to 12” deep having 36” wood stakes spaced at 10’ intervals where indicated on plan to be provided by contractor. Payment for this item shall be made per Linear Foot (LF) according to the bid schedule for all work complete. All other costs associated with this item is considered to be included in the overall bid price and no separate payment shall be made.”
30. **Page TPS-21**, add the following section: **“46. Straw Waddles for SWPPP**, Contractor shall install 12” diameter by 20’ long straw waddles with 8 each 24” wood stakes per waddle where indicated on plan to be provided by contractor. Payment for this item shall be made per Linear Foot (LF) according to the bid schedule for all work complete. All other costs associated with this item is considered to be included in the overall bid price and no separate payment shall be made.”
31. **Page TPS-21**, add the following section: **“47. Track Out Area for SWPPP**, Contractor shall install track out area where indicated on plan to be provided by contractor. Anywhere construction traffic will enter onto existing road. Payment for this item shall be made per Linear Foot (LF) according to the bid schedule for all work complete. All other costs associated with this item is considered to be included in the overall bid price and no separate payment shall be made.”
32. **Page TPS-21**, add the following section: **“48. Haul Millings to Hidden Valley Yard**, Contractor shall load and haul millings to Pinal County’s Hidden Valley Yard located at 43910 W. Meadowview Road, Maricopa, Az 85138-5138. Contractor shall coordinate stockpile of millings with Victor Valtierra, foreman for the yard who may be contacted at (520 251-2358). Payment for this item shall be made per Ton according to the bid schedule for all work complete. All other costs associated with this item is considered to be included in the overall bid price and no separate payment shall be made.”
33. **Page TPS-24, Water Use for Construction Site**, at the end of this section add the following: “The contractor may elect to obtain water from a source other than EPD however, it shall be the contractor’s responsibility to obtain a water source for the project, provide delivery to the work site and use sufficient quantity of water in an appropriate manner. Cost for obtaining, providing and using water shall be a non-pay item and be incorporated into the overall cost of the project.”
34. **Page CA-2, Contract Agreement, Retention**, delete this section 6. in its entirety and replace with the following: “Pinal shall retain a percentage of each Progress Payment requested in accordance with MAG Standard Specification Section 109-7, pages 109-5 and 109-6.”



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Plans: The following plan changes shall be made to this project as described below and do not warrant reissuance of plan sheets as a part of this addendum. Said plan changes in addition to others during construction shall be shown on the As-Built Plan set for this project.

1. **Plan Sheet 7 of 76**, add the following Quantity Table to this sheet:

Plan Sheet No.	New Pavement	Mill & Overlay
58	676	
57	867	
56	1803	
55	2099	
54		1867
53	1341	622
52	1602	
51	1576	404
50		1244
49		1556
48	778	1089
47	311	
Total	11053	6782

2. **Plan Sheet 7 of 76**, delete all references to AB Class II and replace with AB per MAG.
3. **Plan Sheet 7 of 76**, referencing Pavement Structural Section No. 1, delete "Fog Seal"
4. **Plan Sheet 7 of 76**, referencing Pavement Structural Section No. 2, delete (2" AC R-19mm on 4" AB Class II) and replace with (3" AC A-19mm on 8" AB per MAG changing the Total Thickness of Section No. 2 to 11").
5. **Plan Sheet 7 of 76**, referencing Pavement Structural Section No. 3, delete (Mill 1-1/2") and replace with (Mill 3").
6. **Plan Sheet 16 of 76**, Referencing Slope Paving Detail, delete the 1/2" Bituminous Joint Filler between CBC & Slope Paving" and replace with "anchor Slope Paving to Concrete Box Culvert with #4 dowels at 18 inches on center".
7. **Plan Sheets 27 thru 32**, the older ADOT structure detail drawings are being used in lieu of the new ones because the older ones accommodate for a 5 foot height with the span indicated on the plans.
8. **Plan Sheet 33 of 76**, delete this sheet entirely and replace with most current ADOT construction detail C-13.25 for Corrugated Metal End Section.
9. **Plan Sheet 35 of 76**, add the following note: "Tensor Glassgrid – TF Pavement Reinforcement or approved equivalent shall be installed between the first 1-1/2" lift and final 1-1/2" lift of pavement overlay in accordance with manufacturer's recommendations."
10. **Plan Sheet 55 & 56 of 76**, delete the Mill & Overlay area and replace with New Pavement.

For Scott
Scott Bender

Scott Bender P.E.,
County Engineer

Maricopa - Casa Grande Highway Santa Cruz Wash Crossing Improvements

Project No. 62953157

Bid Schedule

Revised 3/4/2015

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Traffic Control	L.SUM	1		
2	Mobilization	L.SUM	1		
3	Surveying	L.SUM	1		
4	Roadway Excavation & Embankment:	CY	11171		
5	Structural Excavation and Backfill	CY	9268		
6	Remove Existing AC Pavement by Milling	SY	12294		
7	Subgrade Preparation (Per MAG Std Specs Sec 301)	SY	18626		
8	Riprap (Per MAG Std Specs Sec 703, D50=6")	CY	319		
9	Aggregate Base Course (Including Detour)	TON	10545		
10	3" Asphalt Concrete for Paved Detour, (A-19mm, 3/4" Mix), High Traffic Pavement	TON	1260		
11	3 1/2" Asphalt Concrete for First Lift on Highway, (A-19mm, 3/4" Mix), High Traffic Pavement	TON	2200		
12	2 1/2" Asphalt Concrete for Final Lift on Highway, (A-12.5mm, 3/4" Mix), High Traffic Pavement	TON	1570		
13	3" Asphalt Concrete for Milled Pavement Overlay of Highway, (R-19mm, 3/4" Mix), High Traffic Pavement	TON	1150		
14	Tack Coat (Per MAG Std Specs Sec 329)	TON	5		
15	Concrete Ribbon Curb (Per MAG Std Dtl 220-1 Type B)	LF	417		
16	Remove Pipe, Backfill & Compact, D=24"	LF	300		
17	Relocate Light Pole	EACH	1		
18	Remove and Salvage Traffic Sign	EACH	25		
19	Miscellaneous Removals and Other Work	L.SUM	1		
20	Relocate Traffic Sign Panel	EACH	1		
21	Guardrail (Per ADOT Std Dtl C-10.02)	LF	2025		
22	Guardrail Terminal, SKT-350	EACH	4		
23	Hydro Seeding	ACRE	4		
24	4" White Thermoplastic Traffic Stripe	LF	15719		
25	4" Yellow Thermoplastic Traffic Stripe	LF	10877		
26	Foundation for Square Tube Post (Per ADOT Std Dtl S-1, Sheet 2 of 3)	EACH	22		
27	Sign Post (2 S) (Perforated) (Single) (Per ADOT Std Dtl S-1, Sheet 1)	LF	94		
28	Sign Post (2 1/2S) (Perforated) (Single) (Per ADOT Std Dtl S-1, Sheet 1)	LF	162		
29	Regulatory, Warn, or Marker Sign Panel ASTM D-4956-01A, Type XI Sheeting (Per ADOT Std Spec Sec 608)	SF	152		
30	Guardrail Extruder Terminal Marker	EACH	4		
31	Structural Concrete ADOT Class S, f'c=3000 PSI	CY	2021		
32	Reinforcing Steel	LB	313225		
33	24" CMP	LF	410		
34	End Section for 24" Pipe Culvert	EACH	10		
35	Clearing and Grubbing	L.SUM	1		
36	Glassgrid-TF Pavement Reinforcement for Mill & Overlay Area	SY	6782		
37	Remove Asphalt by Milling for Overlay & Detour	SY	14249		
38	Portable Message Board	HR	216		
39	Notification Signing	SF	50		
40	Uniformed Off-Duty Officer	HOUR	200	\$45.00	\$9,000.00
41	UPRR Flagman & ROE Allowance	Allowance	1	\$10,000.00	\$10,000.00
42	AZPDES & SWPPP	LS	1		
43	Contingency Allowance	Allowance	1	\$140,000.00	\$140,000.00
44	FEMA Floodplain Allowance	LS	1		
45	Silt Fence for SWPPP	LF	10214		
46	Straw Waddles for SWPPP	LF	400		
47	Track out Area for SWPPP	SY	1100		
48	Haul Millings to Hidden Valley Yard	TON	10790		
TOTAL					

Quantities appearing in the Bid Documents are approximate only and are not to be used for the comparison of bids. Payment to Contractor shall be made only for the actual quantities of work performed and accepted and/or for materials furnished in accordance with the contract at the unit price(s) in the bid. Contractor shall verify actual quantities prior to construction and notify the Engineer of any deviation, either exceeding or under the Bid Price/Contract Price. No additional payment shall be paid to Contractor for additional quantities without a prior written change order approved by Pinal. Any additional payment paid to Contractor for additional quantities shall be based on the applicable unit price in the Bid. No payment shall be made for unused materials.



Box Culvert Quantities - Steel & Concrete

Project No.: JaC JOB NO.: W7X97700
 Project Name: MCGH - Box Culvert Extension

QA/QC	Name	Date
Created By:	PJB	12/06/04
Modified By:	MKO	10/29/13
Checked By:		

Box Culvert Number	Station (ft)	Fill Class	Number of Barrels	W (CBC) (ft)	H (CBC) (ft)	Skew (°)	Fill Side at Inlet (h:1)	Fill Side at Outlet (h:1)	Total Culvert Length (ft)	Inlet Quantity (each)	Outlet Quantity (each)
11	137+94	I	6	10.00	6.00	0	2	2	22.0	1	1
									22.0		
									44.0		
12	142+75	I	18	10.00	6.00	0	2	2	22.0	1	1
									22.0		
									44.0		
13	145+00	I	6	10.00	6.00	45	2	2	31.1	1	1
									31.1		
									62.2		
14	MURPHY	I	2	10.00	5.00	0	4	4	36.0	1	1
									48.0		
									84.0		
15	ANTONE	I	2	10.00	5.00	0	4	4	24.0	1	1
									24.0		
									48.0		

TOTAL CULVERT CONCRETE (CY) **2.021**

TOTAL CULVERT STEEL (Lb) **313,225**



Engineers and Constructors

Numbers in Blue are estimated for the lengthened wingwall
Revise when steel & Concrete calcs are done.

Box Culvert Quantities - Steel & Concrete

Project No.: JaC JOB NO.: W7X97700
Project Name: MCGH - Box Culvert Extension

QA/QC	Name	Date
Created By:	PJB	12/06/04
Modified By:	MKO	10/29/13
Checked By:		

Unit Qty (CY/ft)	CONCRETE - BARRELS			CONCRETE - INLET WINGWALLS			CONCRETE - OUTLET WINGWALLS			CONCRETE - APRON			CULVERT SUBTOTAL CONCRETE (CY)
	Subtotal Qty (CY)	First Barrel Qty (CY)	Δc - Qty per Addtl Barrel (CY/bbl)	Subtotal Qty (CY)	First Barrel Qty (CY)	Δc - Qty per Addtl Barrel (CY/bbl)	Subtotal Qty (CY)	First Barrel Qty (CY)	Δc - Qty per Addtl Barrel (CY/bbl)	Subtotal Qty (CY)	First Barrel Qty (CY)	Δc - Qty per Addtl Barrel (CY/bbl)	
5.83	128.26	9.62	1.40	16.62	12.84	2.51	25.39	1.76	2.73	15.41			145
5.83	128.26												170
													315
17.49	384.78	9.62	1.40	33.42	12.84	2.51	55.51	1.76	2.73	48.17			419
17.49	384.78												489
													908
5.83	181.31	12.94	1.99	22.89	17.04	3.54	34.74	4.47	3.29	20.92			205
5.83	181.31												237
													442
2.17	78.12	9.05	1.40	10.45	15.65	2.51	18.16	2.23	3.49	5.72			89
2.17	104.06												128
													217
2.17	52.03	9.05	1.40	10.45	15.65	2.51	18.16	2.23	3.49	5.72			63
2.17	52.03												76
													139
TOTAL CULVERT CONCRETE (CY)												2,021	



Engineers and Constructors

Box Culvert Quantities - Steel & Concrete

Project No.: JaC JOB NO.: W7X97700
 Project Name: MCGH - Box Culvert Extension

QA/QC	Name	Date
Created By:	PJB	12/06/04
Modified By:	MKO	10/29/13
Checked By:		

Unit Qty (Lb/ft)	STEEL - BARRELS			STEEL - INLET WINGWALLS			STEEL - OUTLET WINGWALLS			STEEL - APRON			CULVERT SUBTOTAL STEEL (Lb)
	Subtotal Qty (Lb)	First Barrel Qty (Lb)	Δs - Qty per Addtl Barrel (Lb/bbl)	Subtotal Qty (Lb)	First Barrel Qty (Lb)	Δs - Qty per Addtl Barrel (Lb/bbl)	Subtotal Qty (Lb)	First Barrel Qty (Lb)	Δs - Qty per Addtl Barrel (Lb/bbl)	Subtotal Qty (Lb)	First Barrel Qty (Lb)	Δs - Qty per Addtl Barrel (Lb/bbl)	
1,022	22,480	715	130	1,365	947	220	2,047	143	211	1,198	23,845		
1,022	22,480										25,725		49,570
3,065	67,439	715	130	2,925	947	220	4,687	143	211	3,730	70,364		
3,065	67,439										75,856		146,220
1,022	31,778	997	217	2,082	1,295	344	3,015	368	255	1,643	33,860		
1,022	31,778										36,436		70,296
318	11,462	567	130	697	1,160	220	1,380	210	267	477	12,160		
318	15,283										17,141		29,301
318	7,642	567	130	697	1,160	220	1,380	210	267	477	8,339		
318	7,642										9,499		17,838
TOTAL CULVERT STEEL (Lb)												313,225	



March 03, 2015
Folder: 02828-77

PINAL COUNTY
PUBLIC WORKS DEPARTMENT
REAL ESTATE SECTION
31 NORTH PINAL STREET
BUILDING F, PO BOX 727
FLORENCE, AZ 85132

Ms. Dale Harman:

Reference is made to that certain Agreement dated February 11, 2014, between Union Pacific Railroad Company ("Licensor"), and Pinal County, A Political Subdivision Of The State Of Arizona, Acting By And Through Its Board Of Supervisors ("Licensee"), or their predecessors in interest, covering a **right of entry extension** on Railroad Company's property at or near Maricopa, Arizona. Said License Agreement is identified in the Railroad Company's records as Audit No. 271963, (hereinafter "Basic Agreement"), which has or will expire(d) by its own terms.

Effective as of December 11, 2014, it is agreed by and between the parties as follows:

Subject to the termination provisions contained herein or in the Basic Agreement, the term of the Basic Agreement is hereby renewed and/or extended commencing as of December 11, 2014 and continuing through **December 31, 2015**, and that all the terms and conditions of the Basic Agreement, as heretofore or herein supplemented and/or amended (if applicable), shall remain in full force and effect during the extended term.

The Basic Agreement may be terminated by either party on thirty (30) days' written notice to the other party.

Fiber optic cable systems may be buried on the Licensor's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Licensee shall telephone the Licensor at 1-800-336-9193 (a 24-hour number) to determine if fiber optic cable is buried anywhere on the Licensor's premises to be used by the Licensee. If it is, Licensee will telephone the telecommunications company(ies) involved, arrange for a cable locator, and make arrangements for relocation or other protection of the fiber optic cable prior to beginning any work on the Licensor's premises.

In addition to other indemnity provisions in this Agreement, the Licensee shall indemnify and hold harmless the Licensor from and against all costs, liability and expense whatsoever (including, without limitation, attorneys' fees, court costs and expenses) arising out of any act or omission of the Licensee, its contractor, agents and/or employees, that causes or contributes to (1) any damage to or destruction of any telecommunications system on Licensor's property, and (2) any injury to or death of any person employed by or on behalf of any telecommunications company, and/or its contractor, agents and/or employees, on Licensor's property. Licensee shall not have or seek recourse against Licensor for any claim or cause of action for alleged loss of profits or revenue or loss of service or other consequential damage to a telecommunication company using Licensor's property or a customer or user of services of the fiber optic cable on Licensor's property.

This Letter Agreement is supplemental to the Basic Agreement, and nothing herein contained shall be construed as amending or modifying the same, except as herein specifically provided. Please execute this letter indicating your acceptance and return one copy to me. This Letter Agreement will not be considered effective by the Licensor until we receive the fully executed duplicate original of this Letter Agreement.

If you have any questions regarding this letter, please contact Connie Alvis at (402) 544-8553.

UNION PACIFIC RAILROAD COMPANY

By: _____
Constance R. Alvis
Manager

**PINAL COUNTY, A POLITICAL
SUBDIVISION OF THE STATE OF
ARIZONA, ACTING BY AND THROUGH
ITS BOARD OF SUPERVISORS**

By: _____
Title: _____