



**BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS**

Award Contract Grant

Requested Board Meeting Date: 05/15/18

* = Mandatory, information must be provided

or Procurement Director Award

***Contractor/Vendor Name/Grantor (DBA):**

Borderland Construction Company, Inc.

***Project Title/Description:**

Construction Manager at Risk for Aerospace Parkway Widening (4AERO2)

***Purpose:**

Amendment: Contract No. CT-PW-17-328, Amendment No. Five (5). This amendment is for Phase 2 of the construction phase of the contract which amends the scope of work and increases the contract amount by \$2,691,727.68 through the incorporation of accepted Guaranteed Maximum Price (GMP) 4 and 5 for Phase 2, schedule, and scope of work. GMP 4 Phase 2 consists of the widening of Aerospace Parkway in the general vicinity of the Nogales Highway Intersection and the UPRR Public at-grade crossing. GMP 5 Phase 2 consists of realigning Raytheon Parkway North of Aerospace Parkway. Administering Department: Public Works.

***Procurement Method:**

Pursuant to Solicitation for Qualifications No. 247692, on 05/02/17, the Board of Supervisors awarded a contract for this project in the amount of \$183,369.91 for preconstruction services for a contract term of 05/02/17 to 05/01/18. Previous Amendment No. 1, 3, and 4 totaling \$4,833,464.70 have been approved by the Board of Supervisors to incorporate an accepted GMP 1 Phase 1 and GMP 2 Phase 2, schedule, and scope of work. Amendment No. 2 totaling \$120,058.65 was approved by the Procurement Director to avoid installation of both a temporary and final signal installation.

Attachment: Amendment No. Five (5)

***Program Goals/Predicted Outcomes:**

This contract is for the CMAR to provide preconstruction and construction services for the entire Aerospace Parkway Widening Project, including intersection improvements at Nogales Highway and Raytheon Parkway. The preconstruction services phase includes value engineering, constructibility reviews, and a cost model development. The CMAR will develop multiple GMPs for each of the phases to construct the project throughout the term of the Contract and incorporate into this Contract by Amendment.

***Public Benefit:**

The construction of this expansion will provide the infrastructure needed for both the commercial and industrial growth being promoted in the area of the Aerospace corridor, including known increased traffic needs at Raytheon and Vector Space. The result of this development will be to support growth in the local economy which will benefit the entire region.

***Metrics Available to Measure Performance:**

Performance will be measured using the contractor evaluation process as outlined in BOS Policy D29.1.E.1 at the end of the preconstruction phase, the CMAR will provide GMP(s), which will be incorporated into this Contract by Amendment, showing the project will be constructed within the estimated budget. GMPs 4 and 5 for Phase 2 will continue to be evaluated within the contractor evaluation process with emphasis on alternative delivery implementation of partnering principles.

***Retroactive:**

No.

To: COB- 5.2.18
ygs- 36
(1)

Contract / Award Information

Document Type: _____ Department Code: _____ Contract Number (i.e.,15-123): _____

Effective Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____

Expense Amount: \$* _____ Revenue Amount: \$ _____

***Funding Source(s) required:**

Funding from General Fund? Yes No If Yes \$ _____ % _____

Contract is fully or partially funded with Federal Funds? Yes No

***Is the Contract to a vendor or subrecipient?**

Were insurance or indemnity clauses modified? Yes No

If Yes, attach Risk's approval

Vendor is using a Social Security Number? Yes No

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment / Revised Award Information

Document Type: CT Department Code: PW Contract Number (i.e.,15-123): 17-328

Amendment No.: Five (5) AMS Version No.: Eleven (11)

Effective Date: 05/15/18 New Termination Date: 01/31/19

Prior Contract No. (Synergen/CMS): _____

Expense or Revenue Increase Decrease Amount This Amendment: \$ 2,691,727.68

Is there revenue included? Yes No If Yes \$ _____

***Funding Source(s) required:** HURF 12.6%

Funding from General Fund? Yes No If Yes \$ _____ % _____

Grant/Amendment Information (for grants acceptance and awards) Award Amendment

Document Type: _____ Department Code: _____ Grant Number (i.e.,15-123): _____

Effective Date: _____ Termination Date: _____ Amendment Number: _____

Match Amount: \$ _____ Revenue Amount: \$ _____

***All Funding Source(s) required:**

*Match funding from General Fund? Yes No If Yes \$ _____ % _____

*Match funding from other sources? Yes No If Yes \$ _____ % _____

***Funding Source:** _____

***If Federal funds are received, is funding coming directly from the Federal government or passed through other organization(s)?**

Contact: Matt Sage, Procurement Officer Matt Sage 4/30/18

Department: Procurement 4/30/18 Telephone: 520-724-8586

Department Director Signature/Date: [Signature] Nancy Cole 724-6312

Deputy County Administrator Signature/Date: [Signature] 4/30/18

County Administrator Signature/Date: [Signature] 4/30/18
(Required for Board Agenda/Addendum Items)

PIMA COUNTY PUBLIC WORKS ADMINISTRATION

PROJECT: Construction Manager At Risk Services
for Aerospace Parkway Widening
(4AERO2)

CONTRACTOR: Borderland Construction Company, Inc.
P.O. Box 27406
Tucson, Arizona 85726

CONTRACT NO.: CT-PW-17-328

AMENDMENT NO.: Five (5)

FUNDING: HURF 12.6%

CONTRACT	
NO. <u>CT-PW-17-328</u>	
AMENDMENT NO. <u>05</u>	
This number must appear on all invoices, correspondence and documents pertaining to this contract.	

CONTRACT TERM: 05/02/2017 - 05/01/2018	ORIGINAL CONTRACT AMOUNT:	\$	183,369.91
TERMINATION PRIOR AMENDMENT: 09/28/2018	PRIOR AMENDMENT(S):	\$	4,953,523.35
TERMINATION THIS AMENDMENT: 01/31/2019	AMOUNT THIS AMENDMENT:	\$	2,691,727.68
	REVISED CONTRACT AMOUNT:	\$	7,828,620.94

CONSTRUCTION CONTRACT AMENDMENT

WHEREAS, at its regularly scheduled meeting on May 2, 2017, the Board of Supervisors approved the award of a Construction Manager at Risk Contract by COUNTY to CONTRACTOR for the above-named Project; and

WHEREAS, construction of the project was anticipated to be conducted in multiple phases; and

WHEREAS, Guaranteed Maximum Price (GMP) 4 and 5 shall pertain to project Phase 2; and

WHEREAS, CONTRACTOR and COUNTY have completed the majority of pre-construction services for Phase 2 and have mutually agreed upon an acceptable GMP 4 and GMP 5, to include the schedule and scope of work for the construction of Phase 2 of the Project; and

WHEREAS, Solicitation for Qualifications No. 247692, upon which the procurement for this Contract was based, provided that COUNTY would establish the goal for Small Business Enterprise (SBE) utilization for the construction under this Contract in conjunction with the construction phase services; and

WHEREAS, CONTRACTOR and COUNTY have reviewed all required documentation regarding available subcontracting opportunities, the certified SBE's who are ready, willing, able and qualified to perform the construction, and have agreed to the establishment of a SBE goal of **4.0%** for GMP 4 and GMP 5 of this project; and

WHEREAS, CONTRACTOR and COUNTY now agree to incorporate the GMP 4 and GMP 5, Phase 2 SBE goal, and contractual provisions, conditions, terms, agreements and related documents required for the construction phase of the Project into the Contract, and

WHEREAS, COUNTY and CONTRACTOR, pursuant to Article 1, have agreed to extend the Term of the Contract to January 31, 2019; and

WHEREAS, COUNTY and CONTRACTOR, pursuant to Article 2, have agreed to incorporate GMP 4 and GMP 5 into the Contract; and

WHEREAS, COUNTY and CONTRACTOR pursuant to Article 3 have agreed to increase the Contract amount as identified in GMP 4 and GMP 5; and

WHEREAS, COUNTY's acceptance of GMP 4 and GMP 5, is subject to the understanding of the Parties that all other elements of future GMPs, if any, are and remain negotiable.

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NOW, THEREFORE, it is agreed as follows:

CHANGE: **ARTICLE 1 – TERM**

FROM: “This Contract, as approved by the Board of Supervisors, commences on May 2, 2017 and terminates on September 28, 2018, unless sooner terminated or further extended for Project completion. COUNTY may, with written notice to CMAR, extend this Contract for such additional period or periods as may be required for Project completion.”

TO: “This Contract, as approved by the Board of Supervisors, commences on May 2, 2017 and terminates on January 31, 2019, unless sooner terminated or further extended for Project completion. COUNTY may, with written notice to CMAR, extend this Contract for such additional period or periods as may be required for Project completion.”

CHANGE: **ARTICLE 2 – SCOPE OF WORK**

Add the following paragraphs:

“O. The parties agree to proceed to the Construction Services Phase 2. The Construction Provisions, Scope of Work and GMP 4 for Phase 2 of Construction are hereby included in Appendix “F-4” to the Contract.

“P. The parties agree to proceed to the Construction Services Phase 2. The Construction Provisions, Scope of Work and GMP 5 for Phase 2 of Construction are hereby included in Appendix “F-5” to the Contract.

“Q. The SBE Goal for GMP 4 and GMP 5, Phase 2 is 4.0% of the total cost of Construction”

CHANGE: Paragraph A of **ARTICLE 3 – PRECONSTRUCTION PHASE FEE AND GUARANTEED MAXIMUM PRICE** as follows:

FROM: “COUNTY will pay CMAR a Pre-construction Services Fee for Pre-construction Services. The CMAR’s Construction Services Fee, plus the cost of the Work (direct construction cost) including CMAR contingency, bonds, insurance and taxes (indirect construction costs) will comprise the GMP(s) to be established in compliance with Appendix “B” Supplemental Provisions – Construction Costing (10 pages), Appendix “C” General Conditions (45 pages), and Appendix “E” – Small Business Enterprise Requirements (2 pages), Appendix “F” GMP 1, Phase 1 (15 pages), and Appendix “F-1” GMP 1, Phase 1 (17 pages), Appendix “F-2” GMP 2, Phase 2 (16 pages), and Appendix “F-3” GMP 3, Phase 2 (10 pages). Unless otherwise agreed, CMAR’s GMP will include all required sales, use, franchise and other taxes in effect on the date of COUNTY approval of the GMP, as well as all applicable bond and insurance costs.”

TO: “COUNTY will pay CMAR a Pre-construction Services Fee for Pre-construction Services. The CMAR’s Construction Services Fee, plus the cost of the Work (direct construction cost) including CMAR contingency, bonds, insurance and taxes (indirect construction costs) will comprise the GMP(s) to be established in compliance with Appendix “B” Supplemental Provisions – Construction Costing (10 pages), Appendix “C” General Conditions (45 pages), and Appendix “E” – Small Business Enterprise Requirements (2 pages), Appendix “F” GMP 1, Phase 1 (15 pages), and Appendix “F-1” GMP 1, Phase 1 (17 pages), Appendix “F-2” GMP 2, Phase 2 (16 pages), Appendix “F-3” GMP 3, Phase 2 (10 pages), **Appendix “F-4” GMP 4, Phase 2 (15 pages)**, and **Appendix “F-5” GMP 5, Phase 2 (11 pages)**. Unless otherwise agreed, CMAR’s GMP will include all required sales, use, franchise and other taxes in effect on the date of COUNTY approval of the GMP, as well as all applicable bond and insurance costs.”

CHANGE: Paragraph B of **ARTICLE 3 – PRECONSTRUCTION PHASE FEE AND GUARANTEED MAXIMUM PRICE** as follows:

FROM: “The Preconstruction Services Phase Fee will not exceed One Hundred Eighty-Three Thousand Three Hundred Sixty-Nine Dollars and Ninety-One Cents (\$183,369.91). CMAR Construction Phase 1 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 1, in the amount of One Million Five Hundred Thirty-Eight Thousand Eight Hundred Ninety-Two Dollars and Fifty-One (\$1,538,892.51) inclusive of Thirty-Seven Thousand Five Hundred Sixty-Three Dollars and Fifty-Two Cents (\$37,563.52) for COUNTY (Owner) contingency is hereby included in Appendix “F-1”. CMAR Construction Phase 2 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 2, in the amount of Two Million Three Hundred Thirty Thousand One Hundred Seventy-Eight Dollars and Eight Cents (\$2,330,178.08) inclusive of One Hundred Ten Thousand Nine Hundred Sixty Dollars and Eighty-Six Cents (\$110,960.86) for COUNTY (Owner) contingency, is hereby included in Appendix “F-2”. CMAR Construction Phase 2 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 3, in the amount of One Million Eighty-Four Thousand Four Hundred Fifty-Two Dollars and Seventy-Six Cents (\$1,084,452.76) inclusive of Fifty-One Thousand Six Hundred Forty Dollars and Sixty-One Cents (\$51,640.61) for COUNTY (Owner) contingency, is hereby included in Appendix “F-3”. COUNTY’s acceptance of GMP 3, Phase 2 is subject to the understanding of the Parties that all other elements of future GMPs, if any, are and remain negotiable.”

TO: “The Preconstruction Services Phase Fee will not exceed One Hundred Eighty-Three Thousand Three Hundred Sixty-Nine Dollars and Ninety-One Cents (\$183,369.91). CMAR Construction Phase 1 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 1, in the amount of One Million Five Hundred Thirty-Eight Thousand Eight Hundred Ninety-Two Dollars and Fifty-One (\$1,538,892.51) inclusive of Thirty-Seven Thousand Five Hundred Sixty-Three Dollars and Fifty-Two Cents (\$37,563.52) for COUNTY (Owner) contingency is hereby included in Appendix “F-1”. CMAR Construction Phase 2 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 2, in the amount of Two Million Three Hundred Thirty Thousand One Hundred Seventy-Eight Dollars and Eight Cents (\$2,330,178.08) inclusive of One Hundred Ten Thousand Nine Hundred Sixty Dollars and Eighty-Six Cents (\$110,960.86) for COUNTY (Owner) contingency, is hereby included in Appendix “F-2”. CMAR Construction Phase 2 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 3, in the amount of One Million Eighty-Four Thousand Four Hundred Fifty-Two Dollars and Seventy-Six Cents (\$1,084,452.76) inclusive of Fifty-One Thousand Six Hundred Forty Dollars and Sixty-One Cents (\$51,640.61) for COUNTY (Owner) contingency, is hereby included in Appendix “F-3”. **CMAR Construction Phase 2 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 4, in the amount of One Million Eight Hundred Thirty-Two Thousand Three Hundred Ninety-One Dollars and Seventy-Three Cents (\$1,832,391.73) inclusive of Eighty-Seven Thousand Two Hundred Fifty-Six Dollars and Seventy-Five Cents (\$87,256.75) for COUNTY (Owner) contingency, is hereby included in Appendix “F-4”. CMAR Construction Phase 2 Fee, that includes the Cost of the Work (direct construction cost), CMAR contingency, bonds, insurance and taxes (indirect construction costs) which comprises GMP 5, in the amount of Eight Hundred Fifty-Nine Thousand Three Hundred Thirty-Five Dollars and Ninety-Five Cents (\$859,335.95) inclusive of Twenty-Five Thousand Twenty-Nine Dollars and Twenty Cents (\$25,029.20) for COUNTY (Owner) contingency, is hereby included in Appendix “F-5”** COUNTY’s acceptance of GMP 4 and GMP 5, Phase 2 is subject to the understanding of the Parties that all other elements of future GMPs, if any, are and remain negotiable.”

ADD: The following documents to the Contract:

APPENDIX “F-4” – GMP 4, Phase 2 (15 Pages)

APPENDIX “F-4”: Construction Manager at Risk (CMAR) Services for Aerospace Parkway Widening GMP 4 Construction of Phase 2, proposal dated April 27, 2018 (15 pages, attached).

APPENDIX “F-5” – GMP 5, Phase 2 (11 Pages)

APPENDIX “F-5”: Construction Manager at Risk (CMAR) Services for Aerospace Parkway Widening GMP 5 Construction of Phase 2, proposal dated April 27, 2018 (11 pages, attached).

This Amendment shall be effective on May 15, 2018.

All other provisions of the Contract, not specifically changed by this Amendment, shall remain in effect and be binding upon the Parties.

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Amendment on the dates written below.

APPROVED:

Chairman, Board of Supervisors

Date

CMAR:



Signature

Andy North Vice President

Name and Title (Please Print)

4/30/18

Date

ATTEST:

Clerk of the Board

APPROVED AS TO FORM:



Deputy County Attorney

CHRISTOPHER STRAUB

Name (Please Print)

4-30-2018

Date

APPENDIX "F-4"

Construction Manager at Risk (CMAR) Services for Aerospace Parkway Widening

GMP 4, Phase 2

Proposal Dated April 27, 2018

(15 pages)



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

GMP #4 - SUMMARY

Pima County Project Management Office
Aerospace Parkway Widening
Pima County Project Number: 4AERO2

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

CONSTRUCTION	AMOUNT
CONSTRUCTION COSTS:	
I. Cost of Construction	\$ 1,279,330.42
II. CMAR Contingency	\$ 63,966.52
SUBTOTAL <i>(Direct Construction Costs)</i>	\$ 1,343,296.94
INDIRECT CONSTRUCTION COSTS:	
III. General Conditions	\$ 81,120.00
IV. Overhead	\$ 132,755.66
V. Railroad Insurance	\$ 2,500.00
VI. General Liability Insurance	\$ 4,709.54
VII. Payment and Performance Bonds	\$ 9,488.90
SUBTOTAL <i>(Direct Cons. Cost + Gen Cond + Overhead + Insurance + Bonds)</i>	\$ 1,573,871.04
VIII. Construction Fee	\$ 77,858.63
SUBTOTAL <i>(Direct Cons. Cost + Gen Cond + Overhead + Insurance + Bonds + Fee)</i>	\$ 1,651,729.67
IX. Arizona Gross Receipts Tax	\$ 93,405.31
GUARANTEED MAXIMUM PRICE (GMP)	\$ 1,745,134.98
OTHER PROJECT COSTS:	
X. Owner's Contingency	\$ 87,256.75
TOTAL CONTRACT COST	\$ 1,832,391.73

For supporting documentation - see also:

- Attachment #1 - Schedule of Values
- Attachment #2 - Scope of Work
- Attachment #3 - Clarifications, Assumptions, and Exclusions to the scope of work
- Attachment #4 - Anticipated Construction Schedule
- Attachment #5 - Cash-flow Forecast
- Attachment #6 - Subcontractor List (w/anticipated SBE Summary)



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
1	I. COST OF CONSTRUCTION - LINE ITEMS					
2	2020001	Removal Of Structures And Obstructions	LS	1.00	\$ 8,144.76	\$ 8,144.76
3	2020007	Removal of Miscellaneous Concrete	LS	1.00	\$ 2,119.57	\$ 2,119.57
4	2020020	Removal of Curb	LF	575.00	\$ 2.66	\$ 1,529.50
5	2020029	Removal of Bituminous Pavement	SY	2,754.00	\$ 10.41	\$ 28,669.14
6	2020029	Removal of Bituminous Pavement (System Improvement)	SY	685.00	\$ 9.31	\$ 6,377.35
7	2020030	Removal of Bituminous Pavement (Milling) (1.5" Nogales; 2" Aerospace)	SY	13,636.00	\$ 1.25	\$ 17,045.00
8	2020061	Relocate Mailbox	EACH	17.00	\$ 294.28	\$ 5,002.76
9	2020200	Remove and Salvage or Relocate Traffic Signal Equipment and Conductors	LS	1.00	\$ 6,357.70	\$ 6,357.70
10	2030300	Roadway Excavation	CY	2,292.00	\$ 12.54	\$ 28,741.68
11	2030401	Drainage Excavation	CY	258.00	\$ 5.26	\$ 1,357.08
12	2030901	Borrow	CY	2,928.00	\$ 14.88	\$ 43,568.64
13	2050003	Roadway Grading (Stabilize with millings) (Nogales Hwy West Frontage)	SY	1,991.00	\$ 2.68	\$ 5,335.88
14	3030003	Aggregate Base	CY	2,620.26	\$ 27.94	\$ 73,210.06
15	3030003	Aggregate Base (System Improvement)	CY	144.00	\$ 85.33	\$ 12,287.52
16	4040111	Tack Coat	TON	17.00	\$ 818.41	\$ 13,912.97
17	4060001	Asphaltic Concrete (Mix No. 1)	TON	1,997.00	\$ 55.45	\$ 110,733.65
18	4060001	Asphaltic Concrete (Mix No. 1) (System Improvement)	TON	190.00	\$ 65.21	\$ 12,389.90
19	4060002	Asphaltic Concrete (Mix No. 2)	TON	2,300.00	\$ 58.39	\$ 134,297.00
20	4060002	Asphaltic Concrete (Mix No. 2) (System Improvement)	TON	60.00	\$ 61.11	\$ 3,666.60
21	4140040	Asphalt Concrete Friction Course (Asphalt Rubber) Terminal Blend	TON	730.00	\$ 121.66	\$ 88,811.80



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
22	5011014	Pipe, Reinforced Concrete, Class IV, 18"	LF	80.00	\$ 86.02	\$ 6,881.60
23	5011022	Pipe, Reinforced Concrete, Class II, 24"	LF	56.00	\$ 86.86	\$ 4,864.16
24	5011042	Pipe, Reinforced Concrete, Class II, 36"	LF	102.00	\$ 122.33	\$ 12,477.66
25	5014036	Concrete End Section, 36" (ADOT C-13.25)	EACH	2.00	\$ 1,758.32	\$ 3,516.64
26	5014118	Concrete End Section, 18" (ADOT C-13.20)	EACH	1.00	\$ 1,108.32	\$ 1,108.32
27	5014124	Concrete End Section, 24" (ADOT C-13.20)	EACH	1.00	\$ 1,433.32	\$ 1,433.32
28	5030015	Catch Basin, PAG Std Dtl 308, (Type 3, L=8', D=<8')	EACH	1.00	\$ 5,453.30	\$ 5,453.30
29	5101406	Potable Water Pipe, PVC, 6" (CL 200) (System Improvement)	LF	752.00	\$ 41.88	\$ 31,493.76
30	5101604	Potable Water Pipe, Copper, 1" w/fittings (System Improvement)	LF	15.00	\$ 58.30	\$ 874.50
31	5102206	Potable Water, Gate Valve, 6" (System Improvement)	EACH	3.00	\$ 1,220.70	\$ 3,662.10
32	5102604	COMBINATION AIR RELEASE VALVE, 1"	EACH	1.00	\$ 1,725.38	\$ 1,725.38
33	5102802	Potable Water, Drain Valve Assembly (System Improvement)	EACH	1.00	\$ 1,937.54	\$ 1,937.54
34	5103101	Potable Water, Adjust Existing Valve Box and Cover	EACH	2.00	\$ 385.20	\$ 770.40
35	5105010	Abandon and Grout, 10" & Smaller (System Improvement)	LF	699.00	\$ 4.75	\$ 3,320.25
36	5105012	Potable Water, Pipe Remove & Dispose, 12" & Larger (System Improvement)	LF	43.00	\$ 20.30	\$ 872.90
37	5106002	Potable Water, Connections, 2"	EACH	1.00	\$ 2,350.78	\$ 2,350.78
38	5106006	Potable Water, Connections, 6" (System Improvement)	EACH	1.00	\$ 3,318.02	\$ 3,318.02



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
39	5108134	Potable Water, Service Line Renewal (R), 1" (System Improvement)	EACH	6.00	\$ 2,217.92	\$ 13,307.52
40	5150005	Utility Potholing, Depth <12'	EACH	5.00	\$ 375.63	\$ 1,878.15
41	6016100	Concrete Pipe Collar (ADOT C-13.80)	EACH	3.00	\$ 841.10	\$ 2,523.30
42	6070010	Sign Post (Perforated) (Single)	LF	992.00	\$ 6.00	\$ 5,952.00
43	6070110	Foundation for Sign Post (Perforated)	EACH	132.00	\$ 125.00	\$ 16,500.00
44	6070210	Remove and Salvage Signs	LS	1.00	\$ 1,800.00	\$ 1,800.00
45	6080020	Sign Panel (Traffic Control) (Permanent) (TypeXI)	SF	737.00	\$ 12.00	\$ 8,844.00
46	7010001	Maintenance And Protection Of Traffic	LS	1.00	\$ 28,362.20	\$ 28,362.20
47	7010007	Construction Area Elements	LS	1.00	\$ 30,000.00	\$ 30,000.00
48	7040005	Pavement Marking (White Extruded Thermoplastic) (0.090")	LF	54,125.00	\$ 0.41	\$ 22,191.25
49	7040006	Pavement Marking (Yellow Extruded Thermoplastic) (0.090")	LF	23,639.00	\$ 0.41	\$ 9,691.99
50	7040030	Pavement Marking, Preformed, Type 1, Single Arrow	EACH	41.00	\$ 129.24	\$ 5,298.84
51	7040040	Pavement Marking, Preformed, Type 1, Merge Arrow	EACH	9.00	\$ 491.13	\$ 4,420.17
52	7040060	Pavement Marking, Preformed, Type 1, Legend (ONLY)	EACH	7.00	\$ 206.79	\$ 1,447.53
53	7040080	Pavement Marking, Preformed, Type 1, Bike Lane Legend and Symbol	EACH	13.00	\$ 232.64	\$ 3,024.32
54	7040090	Pavement Marking, Preformed, Type I, Symbol, RR Crossing	EACH	4.00	\$ 491.13	\$ 1,964.52
55	7060020	Pavement Marker, Reflective, (Type C, Clear, Red)	EACH	234.00	\$ 2.58	\$ 603.72
56	7060025	Pavement Marker, Reflective, (Type D, Yellow, Two-Way)	EACH	355.00	\$ 2.58	\$ 915.90



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
57	7060030	Pavement Marker, Reflective, (Type G, Clear, One-Way)	EACH	334.00	\$ 2.58	\$ 861.72
58	7060035	Pavement Marker, Reflective, (Type H, Yellow, One-Way)	EACH	48.00	\$ 2.58	\$ 123.84
59	7080001	Pavement Marking Painted	LF	77,764.00	\$ 0.12	\$ 9,331.68
60	7080010	Painted Pavement Symbol or Legend	EACH	9.00	\$ 46.53	\$ 418.77
61	7310000	Pole Base (Type A) (Alum Frangible)(17" High)	EACH	1.00	\$ 1,124.43	\$ 1,124.43
62	7310001	Supply Metro Sign Mounting Brackets And Hardware For PCDOT Supplied Metro Signs	EACH	4.00	\$ 928.43	\$ 3,713.72
63	7310015	Pole (Type A)(12')	EACH	2.00	\$ 1,124.43	\$ 2,248.86
64	7310030	Pole (Type G)	EACH	4.00	\$ 1,477.24	\$ 5,908.96
65	7310050	Pole (Type R)	EACH	3.00	\$ 3,380.53	\$ 10,141.59
66	7310060	Pole (Type 2B)	EACH	3.00	\$ 2,475.82	\$ 7,427.46
67	7310085	Post Type I	EACH	1.00	\$ 593.17	\$ 593.17
68	7310200	Pole Foundation (Type A)	EACH	2.00	\$ 692.20	\$ 1,384.40
69	7310215	Pole Foundation (Type G)	EACH	3.00	\$ 930.50	\$ 2,791.50
70	7310235	Pole Foundation (Type R)	EACH	4.00	\$ 3,148.42	\$ 12,593.68
71	7310240	Pole Foundation (Type 2B)	EACH	3.00	\$ 876.85	\$ 2,630.55
72	7310255	Post Foundation Type I	EACH	1.00	\$ 722.11	\$ 722.11
73	7310350	Traffic Signal Control Cabinet Foundation	EACH	1.00	\$ 776.79	\$ 776.79
74	7310425	Mast Arm 45 Ft	EACH	1.00	\$ 2,523.27	\$ 2,523.27
75	7310430	Mast Arm 50 Ft	EACH	1.00	\$ 3,360.93	\$ 3,360.93
76	7310435	Mast Arm 55 Ft	EACH	1.00	\$ 4,446.16	\$ 4,446.16
77	7310535	Mast Arm 20 Ft (Tapered) (Luminaire)	EACH	7.00	\$ 613.80	\$ 4,296.60
78	7320015	Electrical Conduit (1 1/2") (PVC)	LF	190.00	\$ 7.22	\$ 1,371.80
79	7320020	Electrical Conduit (2") (PVC)	LF	400.00	\$ 10.01	\$ 4,004.00
80	7320025	Electrical Conduit (2 1/2") (PVC)	LF	50.00	\$ 12.38	\$ 619.00
81	7320030	Electrical Conduit (3") (PVC)	LF	700.00	\$ 9.28	\$ 6,496.00
82	7320040	Electrical Conduit 4" PVC	LF	520.00	\$ 41.26	\$ 21,455.20
83	7320040	Electrical Conduit 4" PVC (2nd in Trench)	LF	790.00	\$ 4.64	\$ 3,665.60
84	7320400	Pull Box (No. 3 1/2)	EACH	4.00	\$ 406.45	\$ 1,625.80



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
85	7320420	Pull Box (No. 7)	EACH	5.00	\$ 649.90	\$ 3,249.50
86	7320421	Pull Box (No. 7) (with Extension)	EACH	3.00	\$ 729.34	\$ 2,188.02
87	7320601	Traffic Signal and Lighting Conductors	LS	1.00	\$ 15,801.92	\$ 15,801.92
88	7320690	Ground Rod (3/4" Dia. X 10')	EACH	2.00	\$ 90.78	\$ 181.56
89	7320820	Battery Back Up Power System	EACH	1.00	\$ 8,837.65	\$ 8,837.65
90	7330045	Traffic Signal Face (Type F)	EACH	9.00	\$ 463.18	\$ 4,168.62
91	7330046	Traffic Signal Face (Type R)	EACH	5.00	\$ 537.46	\$ 2,687.30
92	7330200	Traffic Signal Face (Ped Man/Hand)	EACH	4.00	\$ 440.49	\$ 1,761.96
93	7330320	Traffic Signal Mount Assembly (Type V)	EACH	3.00	\$ 393.04	\$ 1,179.12
94	7330330	Traffic Signal Mount Assembly (Type VII)	EACH	1.00	\$ 498.26	\$ 498.26
95	7330350	Traffic Signal Mount Assembly (Type XI)	EACH	4.00	\$ 190.84	\$ 763.36
96	7330355	Traffic Signal Mount Assembly (Type A.B./O-3)	EACH	9.00	\$ 363.12	\$ 3,268.08
97	7340040	Traffic Signal Control Cabinet	EACH	1.00	\$ 35,601.26	\$ 35,601.26
98	7350000	Video Detection System (3 Camera)	EACH	1.00	\$ 28,845.36	\$ 28,845.36
99	7350100	Loop Detector (6'x6')	EACH	4.00	\$ 541.59	\$ 2,166.36
100	7350210	Loop Detector (6'x70')	EACH	4.00	\$ 1,771.24	\$ 7,084.96
101	7350400	Pedestrian Push Button (2" ADA Button) (With Sign)	EACH	4.00	\$ 363.12	\$ 1,452.48
102	7360130	Luminaire (Horizontal Mount)(LED)	EACH	9.00	\$ 592.13	\$ 5,329.17
103	7360190	Photo Electric Control	EACH	1.00	\$ 129.98	\$ 129.98
104	7360500	Overcurrent Protective Device Coordination	LS	1.00	\$ 1,031.59	\$ 1,031.59
105	7370000	Maintain Existing Traffic Signals & Lighting Systems	LS	1.00	\$ 3,552.80	\$ 3,552.80
106	8083840	PVC (3") SCH 40 Signal	LF	95.00	\$ 4.13	\$ 392.35
107	8100001	AZPDES/NPDES (Original)	LS	1.00	\$ 2,000.00	\$ 2,000.00
108	9010001	Mobilization	LS	1.00	\$ 18,852.00	\$ 18,852.00



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
109	9080001	Concrete Curb, (PC/COT Std. Dtl. 209) (Type 1)	LF	2,589.20	\$ 16.30	\$ 42,203.96
110	9080090	Concrete Curb Terminal Section (PC/COT Std. Dtl. 212)	EACH	6.00	\$ 155.21	\$ 931.26
111	9080201	Concrete Sidewalk	SF	1,298.00	\$ 4.87	\$ 6,321.26
112	9080281	Curb Access Ramp, PAG Std. Dtl. 207 (Type 2)	EACH	1.00	\$ 1,442.35	\$ 1,442.35
113	9080282	Curb Access Ramp, PAG Std. Dtl. 207 (Type 3)	EACH	1.00	\$ 1,457.35	\$ 1,457.35
114	9080284	Curb Access Ramp, PAG Std. Dtl. 207 (Type 2 Modified) (Details R1 & R2)	EACH	2.00	\$ 1,568.63	\$ 3,137.26
115	9080402	Concrete Header	LF	1,669.30	\$ 14.00	\$ 23,370.20
116	9090002	Survey Monument (Including Frame and Cover)	EACH	3.00	\$ 435.96	\$ 1,307.88
117	9130001	Riprap (Dumped)	CY	22.40	\$ 139.51	\$ 3,125.02
118	9232001	Joint Use Utility Trench (New)(Including 4-4" PVC) (PC IT/ITS)(Sta300-309)	LF	888.00	\$ 38.75	\$ 34,410.00
119	9233050	No. 9 Handhole (New) (JUT Extension-Nogales to Hoover)	EACH	2.00	\$ 2,612.30	\$ 5,224.60
120	9233056	No. 7 Pull Box w/ Extn (PC ITS)(2-4" SPARE)	EACH	1.00	\$ 1,753.43	\$ 1,753.43
121	9250001	Construction Survey & Layout	LS	1.00	\$ 15,620.00	\$ 15,620.00
122	9300114	Miscellaneous Work (Railroad Flagging)	DY	20.00	\$ 1,150.00	\$ 23,000.00
123						\$ -
124	COST OF CONSTRUCTION - LINE ITEMS SUBTOTAL					\$ 1,279,330.42



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
125	II. CMAR CONTINGENCY					
126		UNFORESEEN CONDITIONS LOD400 PLANS	LS	1.00	\$ 63,966.52	\$ 63,966.52
127	SUBTOTAL A. (DIRECT CONSTRUCTION COSTS)					\$ 1,343,296.94
128	INDIRECT CONSTRUCTION COSTS					
129	III. GENERAL CONDITIONS					
130		CLEAN UP	LS	1.00	\$ 2,000.00	\$ 2,000.00
131		PORTABLE RESTROOMS	LS	1.00	\$ 3,500.00	\$ 3,500.00
132		SMALL TOOLS	LS	1.00	\$ 2,000.00	\$ 2,000.00
133		PERMITS	LS	1.00	\$ 4,500.00	\$ 4,500.00
134		SUPERINTENDENT	WK	15.00	\$2,574.00	\$ 38,610.00
135		PROJECT ENGINEER	WK	15.00	\$2,034.00	\$ 30,510.00
136	SUBTOTAL B. (III. GENERAL CONDITIONS)					\$ 81,120.00
137	SUBTOTAL C. (DIRECT COSTS + GENERAL CONDITIONS)					\$ 1,424,416.94
138		IV. CMAR OVERHEAD (9.32% of Subtotal C)	LS	1.00	\$ 132,755.66	\$ 132,755.66
139	SUBTOTAL D. (DIRECT COSTS + GENERAL CONDITIONS + OVERHEAD)					\$ 1,557,172.60
140		VIII. CONSTRUCTION FEE	LS	1.00	\$ 77,858.63	\$ 77,858.63
141		V. RAILROAD INSURANCE	LS	1.00	\$ 2,500.00	\$ 2,500.00
142		VI. GENERAL LIABILITY INSURANCE	LS	1.00	\$ 4,709.54	\$ 4,709.54
143		VII. PAYMENT AND PERFORMANCE BONDS	LS	1.00	\$ 9,488.90	\$ 9,488.90
144	SUBTOTAL E. (SUBTOTAL D + V + VI + VII + VIII)					\$ 1,651,729.67
145		IX. SALES TAX (City of Tucson 8.7% at 65% of Subtotal E)	LS	1.00	\$ 93,405.31	\$ 93,405.31
146	GUARANTEED MAXIMUM PRICE (GMP)					\$ 1,745,134.98
147	X. OWNER'S CONTINGENCY					
148		UNFORESEEN CONDITIONS - LOD400 PLANS (5% of GMP)	LS	1.00	\$ 87,256.75	\$ 87,256.75
149	SUBTOTAL F. (OWNER'S CONTINGENCY)					\$ 87,256.75
150	TOTAL CONTRACT COST					\$ 1,832,391.73



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #2 - SCOPE OF WORK

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

BRIEF DESCRIPTION OF WORK:			
THIS PROJECT CONSISTS OF WIDENING AEROSPACE PARKWAY IN THE GENERAL VICINITY OF THE NOGALES HIGHWAY INTERSECTION AND UPRR PUBLIC AT-GRADE CROSSING. SEE ATTACHMENT 3 FOR ADDITIONAL EXCLUSIONS AND CLARIFICATIONS			
LIST OF PLANS & SPECIFICATIONS USED FOR GMP			
1	Document:	Prepared By:	Date:
2	AEROSPACE PARKWAY WIDENING: PHASE 2 AEROSPACE PARKWAY GMP2-5 SUBMITTAL FOR FINAL REVIEW (LOD400 Sheets)	KITTELSON	03/09/18
3	AEROSPACE PARKWAY WIDENING: PHASE 2 AEROSPACE PARKWAY GMP4/5 Bid Item List/Quantity Estimate	KITTELSON	03/09/18
4	-	-	-



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #3 - CLARIFICATIONS, ASSUMPTIONS, EXCLUSIONS

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

CLARIFICATIONS, ASSUMPTIONS, AND EXCLUSIONS TO THE SCOPE OF WORK:	
1	Clarification: GMP#4 is intended to match the LOD400 plan sheets provided in Kittelson's 03/09/2018 plan submittal. Areas within the 03/09/2018 plans that are labeled as GMP 4 have been included in the GMP#4 cost proposal unless specifically noted below.
2	Clarification: GMP#4 includes the revised mass earthwork (onsite cut-to-fill and offsite borrow) from Eisenhower Road to the western project limits, including north and south on Nogales Highway
3	Clarification: Borderland has assumed all onsite excavated materials are suitable for roadway embankments, trench backfill, and borrow. If onsite materials from the Phase 2 project cannot be utilized, there will be additional costs for embankments, trench backfill, and offsite borrow (i.e. import) needed for the project.
4	Clarification: Borrow costs are based on the use of offsite source.
5	Clarification: Borderland has assumed onsite material will be suitable for trench backfill material (excluding bedding, shading) from 1' above pipe to subgrade.
6	Clarification: Item 4060510 - Bituminous Material Price Adjustment Allowance: This allowance is not applicable if paving occurs prior to September 30, 2018. If for some reason beyond our control paving takes place after September 30, 2018 asphalt market conditions may require an escalation in the unit cost for bituminous materials.
7	Clarification: Item 9050001 - Guardrail: 96 LF of new guardrail along the Nogales Highway NB right turn lane has not been included within the GMP#4 line items/quantities - rather the necessary Nogales Highway guardrail quantity was previously incorporated into GMP#3 to increase efficiency of installation.
8	-- not used --
9	Assumption: Sales Tax Rate - Assumed City of Tucson rates for GMP #4 (New Rate of 8.7% effective 1/31/18).
10	Assumption: It is assumed the UPRR public at-grade crossing agreements will be coordinated for completion within the attached construction schedule. Any delays associated with the UPRR improvements will have a direct impact on Borderland's ability to complete construction of the project within the provided Guaranteed Maximum Price #4 (GMP#4).
11	-- not used --
12	Exclusion: Borderland has excluded all over excavation and/or compaction/replacement of onsite soils (other than typical subgrade preparation).
13	Exclusion: Borderland is excluding a contractor/owner job trailer for the GMP#4 project.
14	Exclusion: Borderland has not included any costs for the UPRR public at-grade crossing improvements - it is understood this work will be performed by UPRR crews through a direct agreement with Pima County.
15	Exclusion: Item 2030405 - Drainage Excavation (Detention Basin) was included in the engineers bid schedule/estimate, but has been excluded from GMP#4 as it was determined unnecessary for construction



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #3 - CLARIFICATIONS, ASSUMPTIONS, EXCLUSIONS

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

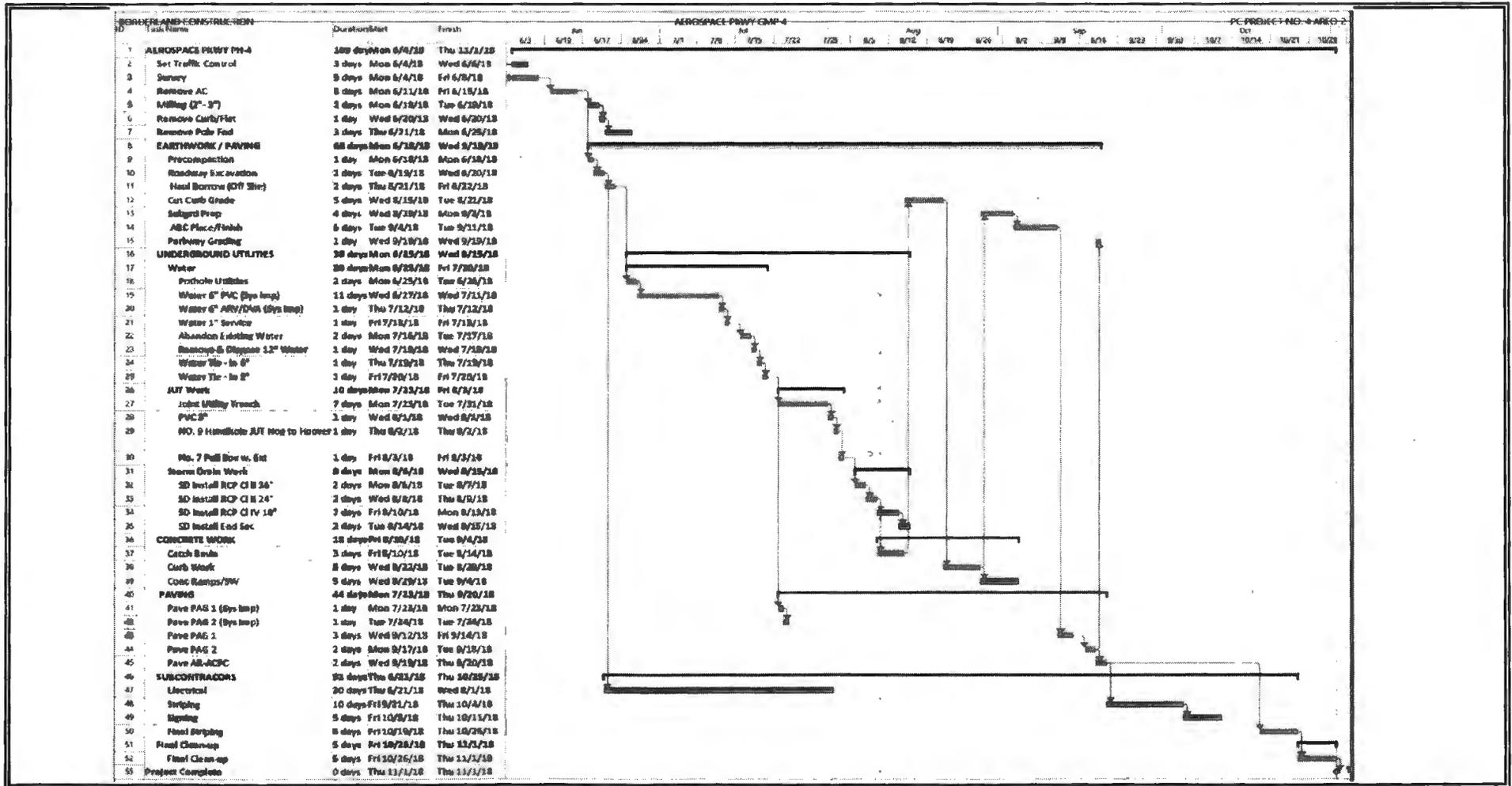
Dated: April 27, 2018

CLARIFICATIONS, ASSUMPTIONS, AND EXCLUSIONS TO THE SCOPE OF WORK:	
16	Exclusion: Item 6100401 - Rock Staining was included in the engineers bid schedule/estimate, but has been excluded from GMP#4 as it was determined unnecessary for construction
17	Exclusion: Item 7010260 - Obliterate Pavement Marking was included in the engineers bid schedule/estimate; but has been excluded from GMP#4 as it was determined unnecessary for construction
18	Exclusion: Borderland has not included any costs for QA/QC testing for the GMP#4 project

Borderland

CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #4 - ANTICIPATED CONSTRUCTION SCHEDULE GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection) Dated: April 27, 2018





CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #5 - CASH-FLOW FORECAST

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

Dated: April 27, 2018

Estimated Monthly Cash-Flow Forecast					
Major Work Items	FY17-18 Work		FY18-19 Work		
	Work Performed: Jun-18*	Work Performed: Jul-18	Work Performed: Aug-18	Work Performed: Sep-18	Work Performed: Oct-18
	To be Invoiced: Jul-18**	To be Invoiced: Aug-18	To be Invoiced: Sep-18	To be Invoiced: Oct-18	To be Invoiced: Nov-18
Traffic Control					
Removals					
Milling	\$ 525,000.00				
Earthwork/Borrow					
Traffic Signal					
Water Mods					
JUT		\$ 350,000.00			
Pave PAG 1 (Sys Imp)					
Storm Drain					
Landscaping					
Catchbasins			\$ 450,000.00		
Curb/Ramps					
Subgrade Prep					
ABC Place/Finish					
Pave PAG 1				\$ 350,000.00	
Pave PAG 2					
Signing/Striping					
Guard Rail					
Cleanup/ Substantial Completion					\$ 70,134.98
Monthly Subtotals	\$ 525,000.00	\$ 350,000.00	\$ 450,000.00	\$ 350,000.00	\$ 70,134.98
FY Subtotals	\$875,000.00		\$870,134.98		
Total***	\$1,745,134.98				
<i>*Forecast assumes start of construction on June 4, 2018 - assuming BOS approval of GMP#4 package in May 2018.</i>					
<i>**Estimated amounts reflect anticipated installations/work completed by end of prior month</i>					
<i>***Forecast Total does NOT include unencumbered Owners Contingency amount of \$87,137.60</i>					



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

SUBCONTRACTOR AND SBE PARTICIPATION SUMMARY

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

Dated: April 27, 2018

LIST OF ANTICIPATED SUBCONTRACTORS							
	GMP	Company	Scope of Work:	Selection Based on:	Anticipated Subcontractor Participation		
					SBE Status? (YES/NO)	Anticipated Subcontract Value	Anticipated % GMP Participation
1	#4	P.A.C.E. Electrical	Traffic Signal/ Electrical	Qualifications and Price	YES	\$ 242,064.00	13.87%
2		Rockridge Construction, Inc.	Rip Rap/ Shotcrete	Qualifications and Price	YES	\$ 4,589.76	0.26%
3		Trafficade	Signage	Qualifications and Price	NO	\$ 33,096.00	1.90%
4		Pavement Markings, Inc.	Striping	Qualifications and Price	NO	\$ 60,894.78	3.49%
5		WLB Surveying	Survey	Qualifications and Price	NO	\$ 15,620.00	0.90%
6		GMP#4 Subcontractor Participation Subtotal				-	\$ 356,264.54
7	#5	Rockridge Construction, Inc.	Rip Rap/ Shotcrete	Qualifications and Price	YES	\$ 6,685.00	0.80%
8		Canyon Fence	Handrail/ Gate	Qualifications and Price	NO	\$ 3,760.00	0.45%
9		Trafficade	Signage	Qualifications and Price	NO	\$ 3,472.00	0.42%
10		Pavement Markings, Inc.	Striping	Qualifications and Price	NO	\$ 2,000.00	0.24%
11		Groundskeeper	Landscaping	Qualifications and Price	NO	\$ 179,875.00	21.56%
12		WLB Surveying	Survey	Qualifications and Price	NO	\$ 7,600.00	0.91%
13	GMP#5 Subcontractor Participation Subtotal				-	\$ 203,392.00	24.38%
Anticipated Subcontractor Participation Total Value (GMP#4/GMP#5)						\$ 559,656.54	21.70%
Anticipated Self-Performance Total Value (GMP#4+GMP#5)						\$2,019,785.19	78.30%

ANTICIPATED SBE GOAL SUMMARY		
BORDERLAND GMP#4 AMOUNT	=	\$1,745,134.98
BORDERLAND GMP#5 AMOUNT	=	\$834,306.75
BORDERLAND GMP#4 + GMP#5 TOTAL AMOUNT	=	\$2,579,441.73
PIMA COUNTY SBE PARTICIPATION GOAL - GMP#4/GMP#5 (%)	=	4.00%
PIMA COUNTY SBE PARTICIPATION GOAL - GMP#4/GMP#5 (\$)	=	\$103,177.67
Anticipated SBE Participation Total	=	\$253,338.76
Anticipated SBE Participation Total (%)	=	9.82%
SBE Participation Goal Anticipated to be Met (Yes/No)	=	YES

APPENDIX "F-5"

Construction Manager at Risk (CMAR) Services for Aerospace Parkway Widening

GMP 5, Phase 2

Proposal Dated April 27, 2018

(11 pages)



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

GMP #5 - SUMMARY

Pima County Project Management Office

Aerospace Parkway Widening

Pima County Project Number: 4AERO2

**GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)
+ AEROSPACE PARKWAY PHASE 2 - FINAL IMPROVEMENTS**

Dated: April 27, 2018

CONSTRUCTION	AMOUNT
CONSTRUCTION COSTS:	
I. Cost of Construction	\$ 638,955.08
II. CMAR Contingency	\$ 19,168.65
SUBTOTAL <i>(Direct Construction Costs)</i>	\$ 658,123.73
INDIRECT CONSTRUCTION COSTS:	
III. General Conditions	\$ 23,432.00
IV. Overhead	\$ 63,520.99
V. Railroad Insurance	\$ -
VI. General Liability Insurance	\$ 2,249.98
VII. Payment and Performance Bonds	\$ 5,071.39
SUBTOTAL <i>(Direct Cons. Cost + Gen Cond + Overhead + Insurance + Bonds)</i>	\$ 752,398.09
VIII. Construction Fee	\$ 37,253.84
SUBTOTAL <i>(Direct Cons. Cost + Gen Cond + Overhead + Insurance + Bonds + Fee)</i>	\$ 789,651.93
IX. Arizona Gross Receipts Tax	\$ 44,654.82
GUARANTEED MAXIMUM PRICE (GMP)	\$ 834,306.75
OTHER PROJECT COSTS:	
X. Owner's Contingency	\$ 25,029.20
TOTAL CONTRACT COST	\$ 859,335.95

For supporting documentation - see also:

Attachment #1 - Schedule of Values

Attachment #2 - Scope of Work

Attachment #3 - Clarifications, Assumptions, and Exclusions to the scope of work

Attachment #4 - Anticipated Construction Schedule

Attachment #5 - Cash-flow Forecast

Attachment #6 - Subcontractor List (w/anticipated SBE Summary)



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
1	I. COST OF CONSTRUCTION - LINE ITEMS					
2	RAYTHEON PARKWAY IMPROVEMENTS					
3	2010011	Clearing and Grubbing	ACRE	1.00	\$ 2,729.92	\$ 2,729.92
4	2020029	Removal of Bituminous Pavement	SY	2,079.00	\$ 7.99	\$ 16,611.21
5	2020132	Remove and Salvage Riprap	CY	88.30	\$ 24.98	\$ 2,205.73
6	2030300	Roadway Excavation	CY	979.00	\$ 14.13	\$ 13,833.27
7	2030401	Drainage Excavation	CY	34.00	\$ 19.26	\$ 654.84
8	2030901	Borrow	CY	495.00	\$ 14.52	\$ 7,187.40
9	3030003	Aggregate Base	CY	1,113.00	\$ 32.45	\$ 36,116.85
10	4040111	Tack Coat	TON	2.32	\$ 936.90	\$ 2,173.61
11	4040126	Slurry Seal Coat	SY	2,024.00	\$ 5.98	\$ 12,103.52
12	4060001	Asphaltic Concrete (Mix No. 1)	TON	857.00	\$ 57.25	\$ 49,063.25
13	4060002	Asphaltic Concrete (Mix No. 2)	TON	479.00	\$ 66.55	\$ 31,877.45
14	4140040	Asphalt Concrete Friction Course (Asphalt Rubber)	TON	77.00	\$ 154.57	\$ 11,901.89
15	6010101	Box Culvert 1 (1-8'x4') (ADOT SD 6.01)	LF	44.00	\$ 1,159.30	\$ 51,009.20
16	6070010	Sign Post (Perforated) (Single)	LF	30.00	\$ 6.00	\$ 180.00
17	6070110	Foundation for Sign Post (Perforated)	EACH	8.00	\$ 145.00	\$ 1,160.00
18	6070210	Remove and Salvage Signs	LS	1.00	\$ 800.00	\$ 800.00
19	6070220	Remove and Relocate Signs	EACH	3.00	\$ 200.00	\$ 600.00
20	6080020	Sign Panel (Traffic Control) (Permanent) (TypeXI)	SF	61.00	\$ 12.00	\$ 732.00
21	7010001	Maintenance And Protection Of Traffic	LS	1.00	\$ 12,821.26	\$ 12,821.26
22	7010007	Construction Area Elements	LS	1.00	\$ 7,000.00	\$ 7,000.00
23	7040005	Pavement Marking (White Extruded Thermoplastic) (0.090")	LF	6,339.00	\$ 0.59	\$ 3,740.01
24	7040006	Pavement Marking (Yellow Extruded Thermoplastic) (0.090")	LF	1,913.00	\$ 0.59	\$ 1,128.67
25	7040030	Pavement Marking, Preformed, Type 1, Single Arrow	EACH	7.00	\$ 163.10	\$ 1,141.70
26	7040060	Pavement Marking, Preformed, Type 1, Legend (ONLY)	EACH	2.00	\$ 260.97	\$ 521.94



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
27	7060020	Pavement Marker, Reflective, (Type C, Clear, Red)	EACH	4.00	\$ 3.26	\$ 13.04
28	7060025	Pavement Marker, Reflective, (Type D, Yellow, Two-Way)	EACH	24.00	\$ 3.26	\$ 78.24
29	7060030	Pavement Marker, Reflective, (Type G, Clear, One-Way)	EACH	43.00	\$ 3.26	\$ 140.18
30	7080001	Pavement Marking Painted	LF	8,252.00	\$ 0.16	\$ 1,320.32
31	7080010	Painted Pavement Symbol Or Legend	EACH	9.00	\$ 58.72	\$ 528.48
32	8100011	AZPDES/NPDES (Modified)	LS	1.00	\$ 5,000.00	\$ 5,000.00
33	9010001	Mobilization	LS	1.00	\$ 5,027.20	\$ 5,027.20
34	9080001	Concrete Curb, (PC/COT Std. Dtl. 209) (Type 1)	LF	456.00	\$ 16.39	\$ 7,473.84
35	9080090	Concrete Curb Terminal Section (PC/COT Std. Dtl. 212)	EACH	2.00	\$ 155.75	\$ 311.50
36	9080133	Concrete Valley Gutter and Apron (PAG Std Dtl 208)	SF	400.00	\$ 9.76	\$ 3,904.00
37	9080402	Concrete Header	LF	509.70	\$ 13.23	\$ 6,743.33
38	9130001	Riprap (Dumped)	CY	34.00	\$ 170.26	\$ 5,788.84
39	9130002	Riprap (Place Salvaged) (Dumped)	CY	23.00	\$ 71.54	\$ 1,645.42
40	9240171	Survey	LS	1.00	\$ 7,600.00	\$ 7,600.00
41	9300110	Miscellaneous Work (Concrete Parking Block)	EACH	19.00	\$ 50.00	\$ 950.00
42	9330003	Handrail (PAG Std Dtl 105)	LF	52.00	\$ 40.00	\$ 2,080.00
43	9330107	Access Gate (24') (World View Access)	EACH	1.00	\$ 1,680.00	\$ 1,680.00
44	AEROSPACE PARKWAY PH 2 - FINAL IMPROVEMENTS					
45	8020001	Landscape Grading (Depressed Planting Areas)	SY	1,957.00	\$ 0.62	\$ 1,213.34
46	8030031	Rock Mulch (4"-8")	CY	154.00	\$ 83.31	\$ 12,829.74
47	8030033	Rock Mulch (Gradation C)	CY	48.00	\$ 77.92	\$ 3,740.16
48	8030040	Granite Mulch (1/2" Screened)	SY	4,383.00	\$ 5.09	\$ 22,309.47
49	8030072	Decorative Boulders (36")	EACH	34.00	\$ 150.03	\$ 5,101.02
50	8030073	Decorative Boulders (24")	EACH	34.00	\$ 76.11	\$ 2,587.74



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
51	8050004	Seeding (Class II)	ACRE	16.00	\$ 2,696.00	\$ 43,136.00
52	8051298	Shrub (5 Gallon)	EACH	305.00	\$ 18.79	\$ 5,730.95
53	8051302	Succulent (3 Gallon) (Agave) (Agency provided)	EACH	54.00	\$ 6.71	\$ 362.34
54	8061005	Tree (15 Gallon)	EACH	31.00	\$ 82.29	\$ 2,550.99
55	8061602	Saguaro Cactus (5 gallon) (1.5' - 2')	EACH	97.00	\$ 136.54	\$ 13,244.38
56	8061603	Saguaro Cactus (6')	EACH	21.00	\$ 467.67	\$ 9,821.07
57	8061610	Cactus (Agency Provided)	EACH	190.00	\$ 11.15	\$ 2,118.50
58	8061614	Barrel Cactus (Agency Provided)	EACH	90.00	\$ 11.15	\$ 1,003.50
59	8061652	Ocotillo (Container Grown) (5 Gallon)	EACH	91.00	\$ 51.87	\$ 4,720.17
60	8061656	Ocotillo (6')	EACH	24.00	\$ 49.13	\$ 1,179.12
61	8070001	Landscaping Establishment (1 Year)	LS	1.00	\$ 7,563.00	\$ 7,563.00
62	8080051	Temp Irrigation - One Year	LS	1.00	\$ 40,661.00	\$ 40,661.00
63	9300112	Miscellaneous Work (Wing Mon - Structural Foundation Design and Construction)	LS	1.00	\$ 51,504.48	\$ 51,504.48
64	9300113	Miscellaneous Work (Wing Monuments)	LS	1.00	\$ 90,000.00	\$ 90,000.00
65						
66		COST OF CONSTRUCTION - LINE ITEMS SUBTOTAL				\$ 638,955.08
67	II. CMAR CONTINGENCY					
68		UNFORESEEN CONDITIONS LOD400 PLANS	LS	1.00	\$ 19,168.65	\$ 19,168.65
69		SUBTOTAL A. (DIRECT CONSTRUCTION COSTS)				\$ 658,123.73



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #1 - SCHEDULE OF VALUES

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

Dated: April 27, 2018

Line No.	Item No.	Item Description	Unit	Quantity	Unit Cost	Extended Amount
70		INDIRECT CONSTRUCTION COSTS				
71		III. GENERAL CONDITIONS				
72		CLEAN UP	LS	1.00	\$ 2,000.00	\$ 2,000.00
73		PORTABLE RESTROOMS	LS	1.00	\$ 1,000.00	\$ 1,000.00
74		SMALL TOOLS	LS	1.00	\$ 2,000.00	\$ 2,000.00
75		PERMITS	LS	0.00	\$ -	\$ -
76		SUPERINTENDENT	WK	4.00	\$2,574.00	\$ 10,296.00
77		PROJECT ENGINEER	WK	4.00	\$2,034.00	\$ 8,136.00
78		SUBTOTAL B. (III. GENERAL CONDITIONS)				\$ 23,432.00
79		SUBTOTAL C. (DIRECT COSTS + GENERAL CONDITIONS)				\$ 681,555.73
80		IV. CMAR OVERHEAD (9.32% of Subtotal C)	LS	1.00	\$ 63,520.99	\$ 63,520.99
81		SUBTOTAL D. (DIRECT COSTS + GENERAL CONDITIONS + OVERHEAD)				\$ 745,076.72
82		VIII. CONSTRUCTION FEE	LS	1.00	\$ 37,253.84	\$ 37,253.84
83		V. RAILROAD INSURANCE (N/A)	LS	1.00	\$ -	\$ -
84		VI. GENERAL LIABILITY INSURANCE	LS	1.00	\$ 2,249.98	\$ 2,249.98
85		VII. PAYMENT AND PERFORMANCE BONDS	LS	1.00	\$ 5,071.39	\$ 5,071.39
86		SUBTOTAL E. (SUBTOTAL D + V + VI + VII + VIII)				\$ 789,651.93
87		IX. SALES TAX	LS	1.00	\$ 44,654.82	\$ 44,654.82
88		GUARANTEED MAXIMUM PRICE (GMP)				\$ 834,306.75
89		X. OWNER'S CONTINGENCY				
90		UNFORESEEN CONDITIONS - LOD400 PLANS (3%)	LS	1.00	\$ 25,029.20	\$ 25,029.20
91		SUBTOTAL F. (OWNER'S CONTINGENCY)				\$ 25,029.20
92		TOTAL CONTRACT COST				\$ 859,335.95



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #2 - SCOPE OF WORK

**GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)
+ AEROSPACE PARKWAY PHASE 2 - FINAL IMPROVEMENTS**

Dated: April 27, 2018

BRIEF DESCRIPTION OF WORK:			
THIS PROJECT CONSISTS OF REALIGNING RAYTHEON PARKWAY NORTH OF AEROSPACE PARKWAY. SEE ATTACHMENT 3 FOR ADDITIONAL EXCLUSIONS AND CLARIFICATIONS			
LIST OF PLANS & SPECIFICATIONS USED FOR GMP			
1	Document:	Prepared By:	Date:
2	AEROSPACE PARKWAY WIDENING: PHASE 2 AEROSPACE PARKWAY GMP2-5 SUBMITTAL FOR FINAL REVIEW (LOD400 Sheets)	KITTELSON	03/09/18
3	AEROSPACE PARKWAY WIDENING: PHASE 2 AEROSPACE PARKWAY GMP4/5 Bid Item List/Quantity Estimate	KITTELSON	03/09/18
4	-	-	-



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #3 - CLARIFICATIONS, ASSUMPTIONS, EXCLUSIONS

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)
+ AEROSPACE PARKWAY PHASE 2 - FINAL IMPROVEMENTS

Dated: April 27, 2018

CLARIFICATIONS, ASSUMPTIONS, AND EXCLUSIONS TO THE SCOPE OF WORK:	
1	Clarification: GMP#5 is intended to match the LOD400 plan sheets provided in Kittelson's 03/09/2018 plan submittal. Areas within the 03/09/2018 plans that are labeled as GMP 5 have been included in the GMP#5 cost proposal unless specifically noted below.
2	Clarification: Borderland has assumed all onsite excavated materials are suitable for roadway embankments, trench backfill, and borrow. If onsite materials cannot be utilized, there will be additional costs for embankments, trench backfill, and offsite borrow (i.e. import) needed for the project.
3	Clarification: Borrow costs are based on the use of offsite source.
4	Clarification: Borderland has assumed onsite material will be suitable for trench backfill material (excluding bedding, shading) from 1' above pipe to subgrade.
5	Clarification: Item 6016110 - Wingwall (ADOT 6.08) and Item 2030506 - Structure Backfill were included in the engineers bid schedule/estimate, but this GMP#4 accounts for these quantities/costs as incidentals to Item 6010101 - Box Culvert 1 (1-8'x4')
6	Clarification: Item 9300112 - Miscellaneous Work (Wing Mon - Structural Foundation Design and Construction): Unit cost for this item is an allowance amount only - actual structural design scope and pricing was still being obtained at time of GMP submittal.
7	Clarification: Item 9300113 - Miscellaneous Work (Wing Monuments): Unit cost for this item is an allowance amount only - actual subcontractor pricing was still being obtained at time of GMP submittal.
8	Clarification: Borderland has included FA item to account for project SWPPP (Item 81000011 - AZPDES/NPDES (Modified))
9	Clarification: Borderland has included costs for QA/QC testing for the GMP#5 project
10	-- not used --
11	Assumption: Sales Tax Rate - Assumed City of Tucson rates for GMP #5 (New Rate of 8.7% effective 1/31/18).
12	Assumption: It is assumed the Raytheon improvements will be coordinated for completion within the attached construction schedule. Any delays associated with the Raytheon improvements will have a direct impact on Borderland's ability to complete construction of the project within the provided Guaranteed Maximum Price #5 (GMP#5).
13	-- not used --
14	Exclusion: Borderland has excluded all over excavation and/or compaction/replacement of onsite soils (other than typical subgrade preparation).
15	Exclusion: Borderland is excluding a contractor/owner job trailer for the GMP#5 project.
15	Exclusion: Borderland has not included any costs for Raytheon's onsite improvements - it is understood the onsite work will be performed by separate contract through a direct agreement with Raytheon
16	Exclusion: Borderland has not included any costs for QA/QC testing for the GMP#5 project

Borderland

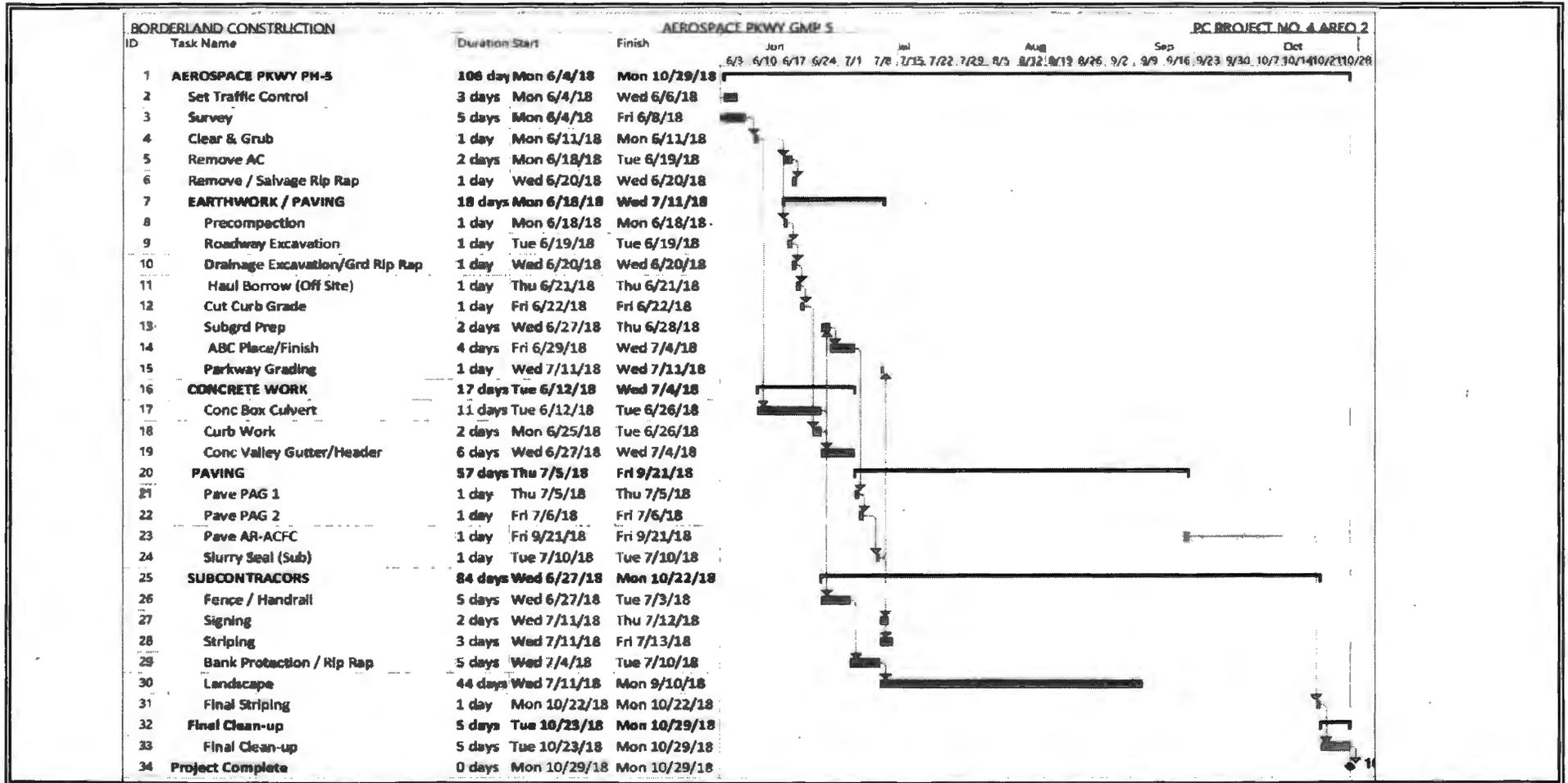
CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #4 - ANTICIPATED CONSTRUCTION SCHEDULE

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

+ AEROSPACE PARKWAY PHASE 2 - FINAL IMPROVEMENTS

Dated: April 27, 2018





CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

ATTACHMENT #5 - CASH-FLOW FORECAST

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)
+ AEROSPACE PARKWAY PHASE 2 - FINAL IMPROVEMENTS

Dated: April 27, 2018

Estimated Monthly Cash-Flow Forecast					
Major Work Items	FY17-18 Work		FY18-19 Work		
	Work Performed: * Jun-18	Work Performed: Jul-18	Work Performed: Aug-18	Work Performed: Sep-18	Work Performed: Oct-18
	To be Invoiced: Jul-18**	To be Invoiced: Aug-18	To be Invoiced: Sep-18	To be Invoiced: Oct-18	To be Invoiced: Nov-18
Traffic Control	\$200,000.00				
Removals					
Earthwork					
Storm Drain					
RCBC					
Rip Rap					
Curb					
ABC	\$200,000.00				
Pave PAG 1					
Pave PAG 2					
Sign/Stripe					
Cleanup/ Substantial Completion					
Aerospace Landscape/ Wing Monuments			\$378,000.00		
Pave ARFC				\$40,000.00	
Cleanup/ Substantial Completion					\$16,306.75
Monthly Subtotals	\$200,000.00	\$200,000.00	\$378,000.00	\$40,000.00	\$16,306.75
FY Subtotals	\$400,000.00		\$434,306.75		
Total***	\$834,306.75				
<i>*Forecast assumes start of construction on June 4, 2018 - assuming BOS approval pf GMP#5 package in May 2018.</i>					
<i>**Estimated amounts reflect anticipated installations/work completed by end of prior month</i>					
<i>***Forecast Total does NOT include unencumbered Owners Contingency amount of \$24,862.94</i>					



CONSTRUCTION MANAGER AT RISK (CMAR) - CONSTRUCTION SERVICES

SUBCONTRACTOR AND SBE PARTICIPATION SUMMARY

GMP#4 - CONSTRUCTION OF PHASE 2 (Aerospace Pkwy/Nogales Hwy Intersection)

GMP#5 - CONSTRUCTION OF RAYTHEON PARKWAY (North of Aerospace Pkwy)

Dated: April 27, 2018

LIST OF ANTICIPATED SUBCONTRACTORS							
GMP	Company	Scope of Work:	Selection Based on:	Anticipated Subcontractor Participation			
				SBE Status? (YES/NO)	Anticipated Subcontract Value	Anticipated % GMP Participation	
1	P.A.C.E. Electrical	Traffic Signal/ Electrical	Qualifications and Price	YES	\$ 242,064.00	13.87%	
2	Rockridge Construction, Inc.	Rip Rap/ Shotcrete	Qualifications and Price	YES	\$ 4,589.76	0.26%	
3	Trafficade	Signage	Qualifications and Price	NO	\$ 33,096.00	1.90%	
4	Pavement Markings, Inc.	Striping	Qualifications and Price	NO	\$ 60,894.78	3.49%	
5	WLB Surveying	Survey	Qualifications and Price	NO	\$ 15,620.00	0.90%	
6	GMP#4 Subcontractor Participation Subtotal			-	\$ 356,264.54	20.41%	
7	Rockridge Construction, Inc.	Rip Rap/ Shotcrete	Qualifications and Price	YES	\$ 6,685.00	0.80%	
8	Canyon Fence	Handrail/ Gate	Qualifications and Price	NO	\$ 3,760.00	0.45%	
9	Trafficade	Signage	Qualifications and Price	NO	\$ 3,472.00	0.42%	
10	Pavement Markings, Inc.	Striping	Qualifications and Price	NO	\$ 2,000.00	0.24%	
11	Groundskeeper	Landscaping	Qualifications and Price	NO	\$ 179,875.00	21.56%	
12	WLB Surveying	Survey	Qualifications and Price	NO	\$ 7,600.00	0.91%	
13	GMP#5 Subcontractor Participation Subtotal			-	\$ 203,392.00	24.38%	
Anticipated Subcontractor Participation Total Value (GMP#4/GMP#5)					\$ 559,656.54	21.70%	
Anticipated Self-Performance Total Value (GMP#4+GMP#5)					\$2,019,785.19	78.30%	

ANTICIPATED SBE GOAL SUMMARY		
BORDERLAND GMP#4 AMOUNT	=	\$1,745,134.98
BORDERLAND GMP#5 AMOUNT	=	\$834,306.75
BORDERLAND GMP#4 + GMP#5 TOTAL AMOUNT	=	\$2,579,441.73
PIMA COUNTY SBE PARTICIPATION GOAL - GMP#4/GMP#5 (%)	=	4.00%
PIMA COUNTY SBE PARTICIPATION GOAL - GMP#4/GMP#5 (\$)	=	\$103,177.67
Anticipated SBE Participation Total	=	\$253,338.76
Anticipated SBE Participation Total (%)	=	9.82%
SBE Participation Goal Anticipated to be Met (Yes/No)	=	YES



INCREASE CERTIFICATE

Principal: **Borderland Construction Company, Inc.**
400 E 38th Street
Tucson, AZ 85713

Bond No. 106656604
License No.
Amount of Bond: \$6,969,284.99
Hereby increased to: \$7,828,620.94
Add GMP #5

Obligee: **Pima County**
130 W Congress Street
Tucson, AZ 85701

As of April 30, 2018, the amount of the above described bond is increased from the sum of \$6,969,284.99 to the sum of \$7,828,620.94, but the liability of the Surety for any acts or defaults occurring before the effective date hereof shall in no event exceed the total sum of \$6,969,284.99, and the aggregate liability of the Surety for any acts or defaults, whenever committed, shall in no event exceed the total sum of \$7,828,620.94, it being the intent hereof to preclude cumulative liability. This certificate, when signed by the Principal shall become a part of the said bond.

Signed, sealed and dated April 30 2018

Travelers Casualty and Surety Company of America

By Tina Marie Berger
Tina Marie Berger
Attorney-in-Fact

I hereby consent to the above increase.

Witness my hand and seal this 30 day of April, 2018

Borderland Construction Company, Inc.
[Signature] (Seal)
Principal

INSTRUCTIONS TO AGENTS - IMPORTANT

Do not deliver this certificate to the Obligee until it has been dated and signed by the Principal. One signed copy must be returned to the Surety.



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 230030

Certificate No. 007240034

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Joseph C. Dhuey, Tina K. Nierenberg, Tina Marie Berger, and Patrick Howey

of the City of Tucson State of Arizona their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 25th day of May 2017.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: Robert L. Raney, Senior Vice President

On this the 25th day of May 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal. My Commission expires the 30th day of June, 2021.



Marie C. Tetreault
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

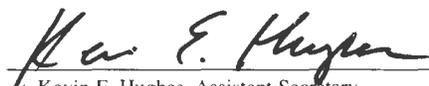
FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 30th day of April, 20 18.


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.



INCREASE CERTIFICATE

Principal: **Borderland Construction Company, Inc.**
400 E 38th Street
Tucson, AZ 85713

Bond No. 106656604
License No.
Amount of Bond: \$5,136,893.26
Hereby increased to: \$6,969,284.99
Add GMP #4

Obligee: **Pima County**
130 W Congress Street
Tucson, AZ 85701

As of April 30, 2018, the amount of the above described bond is increased from the sum of \$5,136,893.26 to the sum of \$6,969,284.99, but the liability of the Surety for any acts or defaults occurring before the effective date hereof shall in no event exceed the total sum of \$5,136,893.26, and the aggregate liability of the Surety for any acts or defaults, whenever committed, shall in no event exceed the total sum of \$6,969,284.99, it being the intent hereof to preclude cumulative liability. This certificate, when signed by the Principal shall become a part of the said bond.

Signed, sealed and dated April 30 2018

Travelers Casualty and Surety Company of America

By Tina Marie Berger
Tina Marie Berger
Attorney-in-Fact

I hereby consent to the above increase.

Witness my hand and seal this 30 day of April, 2018

Borderland Construction Company, Inc.

[Signature] (Seal)
Principal

INSTRUCTIONS TO AGENTS - IMPORTANT

Do not deliver this certificate to the Obligee until it has been dated and signed by the Principal. One signed copy must be returned to the Surety.



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 230030

Certificate No. 007240033

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Joseph C. Dhuey, Tina K. Nierenberg, Tina Marie Berger, and Patrick Howey

of the City of Tucson, State of Arizona, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 25th day of May, 2017.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 25th day of May, 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2021.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 30th day of April, 2018.

Kevin E. Hughes
Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.