

OPERATIONAL AUDIT

OKLAHOMA AERONAUTICS COMMISSION CITY OF TULSA

PROJECT NUMBER RVS-13-FS

**INSTALLATION OF PRECISION APPROACH PATH INDICATORS,
ADDITIONAL SIGNAGE, AND AIRFIELD LIGHTING ELECTRICAL
CONTROL UPDATE**

For the period July 19, 2012 through March 21, 2014



*Independently serving the citizens of
Oklahoma by promoting the
accountability and fiscal integrity of
governmental funds.*



Oklahoma State
Auditor & Inspector
Gary A. Jones, CPA, CFE

**Audit Report of the
Oklahoma Aeronautics Commission
City of Tulsa - Project Number RVS-13-FS
Installation of Precision Approach Path Indicators, Additional
Signage, and Airfield Lighting Electrical Control Update**

**For the Period
July 19, 2012 through March 21, 2014**



Oklahoma State Auditor & Inspector

2300 N. Lincoln Blvd. • State Capitol, Room 100 • Oklahoma City, OK 73105 • Phone: 405.521.3495 • Fax: 405.521.3426

April 18, 2014

TO THE OKLAHOMA AERONAUTICS COMMISSION

At management's request, we have conducted an audit of the Oklahoma Aeronautics Commission (Commission) – City of Tulsa (state project number RVS-13-FS) for the period July 19, 2012 through March 21, 2014. The objective of the audit was to determine whether expenditures paid to the City of Tulsa were in accordance with *Exhibit B-1 – Program Narrative* and *Exhibit B-2 – Project Costs* of the airport construction agreement.

According to Exhibit B-1 and Exhibit B-2, the project consisted of installation of precision approach path indicators on runway 1R/19L, replacement and addition of airport signage, control upgrade for airfield lighting, electrical system upgrade, and installation of a new airport beacon. The project was budgeted at \$1,804,779. The Commission's share of the budget was \$90,094, the FAA's share of the budget was \$1,621,690 and the City of Tulsa's share was \$92,995.

We conducted this performance audit in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objective.

Our audit procedures included inquiries of appropriate Commission personnel, the project engineer, the airport engineer, and the airport financial analyst; inspection of all invoices and supporting documentation related to project reimbursements; and a physical inspection of the completed project conducted on April 3, 2014. **These procedures indicated that costs paid to the City of Tulsa by the Commission appeared to be in accordance with the *Program Narrative* and the *Project Costs*.**

This report is a public document pursuant to the Oklahoma Open Records Act (51 O.S. § 24A.1 et seq.), and shall be open to any person for inspection and copying.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gary A. Jones".

GARY A. JONES, CPA, CFE
OKLAHOMA STATE AUDITOR & INSPECTOR

APPENDIX

**Oklahoma Aeronautics Commission
Operational Audit
Appendix- Project Costs (unaudited) and
Close Out Documentation**

The following information has been presented at the request of management. Therefore, we did not conclude upon the data presented in the following schedules.

Category	Budget	Change Order	Adjusted Budget	Actual	Variance
Construction	\$ 1,552,943.00	\$ (1,008.00)	\$ 1,551,935.00	\$ 1,551,561.32	\$ 1,381.68
Engineering	140,500.00			165,310.00	(24,810.00)
Other (PSO Electrical Feed)	5,393.16			-	5,393.16
Advertising	1,042.80			1,042.80	-
Inspection	104,900.00			104,900.00	-
Total Project Cost	\$ 1,804,778.96			\$ 1,822,814.12	\$ (18,035.16)

	Budget Amount	Budget Amount Including Change Orders	Actual	Variance
City's Share of costs (5.22%)	\$ 92,995.00	\$ 92,944.60	\$ 95,137.81	(2,193.21)
OAC's Share of costs (4.92%)	90,094.00	90,043.60	89,755.16	288.44
FAA's Share of costs (89.86%)	1,621,690.00	1,620,782.80	1,637,921.16	(17,138.36)
	\$ 1,804,779.00 ¹	\$ 1,803,771.00	\$ 1,822,814.12	\$ (19,043.12)

1. OAC rounded up 4 cents to whole dollar amount. The total also includes the \$2901 in insurance costs that is not eligible for OAC participation.

**Oklahoma Aeronautics Commission
Operational Audit
Appendix- Project Costs (unaudited) and
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Line NO.	Spec No	Description	Bid Unit	Bid Quantity	Unit Price Bid	Bid Amount	Actual Quantity	Actual Cost	Quantity Variance	Cost Variance
1	SS-120-3.1	Site Preparation	LS	1.00	\$ 91,000.00	\$ 91,000.00	1.00	91,000.00	0.00	\$ -
2	SS-130-4.1	Trench and Excavation Safety Systems	LS	1.00	3,550.00	3,550.00	1.00	3,550.00	0.00	-
3	L-108-5.2	No. 6 AWG Solid, Bare Counterpoise Wire	LF	14,300.00	0.80	11,440.00	14,268.25	11,414.60	31.75	25.40
4	L-109-5.1	Construction of Airport Transformer Vault and Foundation	LS	1.00	160,000.00	160,000.00	1.00	160,000.00	0.00	-
5	L-109-5.2	Installation of Airport Transformer Vault and Foundation	LS	1.00	63,000.00	63,000.00	1.00	63,000.00	0.00	-
6	L-109-5.3	Existing Electrical Vault Modifications	LS	1.00	66,400.00	66,400.00	1.00	66,400.00	0.00	-
7	L-109-5.4	New Airport Lighting Control and Monitoring System Installed	LS	1.00	275,000.00	275,000.00	1.00	275,000.00	0.00	-
8	L-110-5.1	Electrical Duct Bank Encased, 6-Way 4"C. w/ Innerducts 24" Min Cover	LF	2,290.00	66.00	151,140.00	1,852.00	122,232.00	438.00	28,908.00
9	L-110-5.2	Electrical Duct Bank Encased, 6-Way 4"C. w/ Innerducts 24" Min Cover, Including Asphalt Saw Cut, removal & Repair	LF	200.00	72.00	14,400.00	170.00	12,240.00	30.00	2,160.00
10	L-110-5.3	Electrical Duct Bank Encased, 6-Way 4"C. w/ Innerducts 48" Min Cover	LF	1,160.00	69.00	80,040.00	1,427.00	98,463.00	-267.00	(18,423.00)
11	L-110-5.4	Electrical Duct Bank, 6-Way 4"C. w/ Innerducts Installed in 18" Steel Casings	LF	380.00	50.00	19,000.00	380.00	19,000.00	0.00	-
12	L-110-5.10	Electrical Duct Bank Encased, 2-Way 2"C, 24" Min Cover	LF	710.00	23.90	16,969.00	789.00	18,857.10	-79.00	(1,888.10)
13	L-110-5.11	Electrical Duct Bank Encased, 2-Way 2"C, 24" Min Cover, Including Asphalt Saw Cut, removal & Repair	LF	370.00	74.50	27,565.00	390.00	29,055.00	-20.00	(1,490.00)
14	L-110-5.14	Electrical Conduit for Utility Primary, Concrete Encased, 1-Way 4"C, 48" Min	LF	880.00	10.50	9,240.00	875.05	9,188.03	4.95	51.98
15	L-115-5.2	Precast Concrete Electrical Handhole, 3"Lx3"Wx4"D	EA	18.00	7,760.00	139,680.00	18.00	139,680.00	0.00	-
16	ODOT 202(A)	Unclassified Excavation	CY	100.00	14.80	1,480.00	-	-	100.00	1,480.00
17	ODOT 230(A)	Solid Slab Sodding	SY	535.00	3.80	2,033.00	889.00	3,378.20	-354.00	(1,345.20)
18	ODOT 610(A)	6" Concrete Sidewalk	SY	16.00	75.00	1,200.00	16.00	1,200.00	0.00	-
19	ODOT 610(B)	6" Concrete Driveway	SY	76.00	81.00	6,156.00	76.00	6,156.00	0.00	-
20	ODOT 613(A)	14"x23" R.C. Pipe Elliptical Class HE-III	LF	28.00	177.50	4,970.00	28.00	4,970.00	0.00	-
21	ODOT 613(L)	14"x23" Prefab Culvert End Section	EA	2.00	888.00	1,776.00	2.00	1,776.00	0.00	-
22	ODOT 613(W)	18" Jacked Steel Casing, A WWA C200, 3/8" Wall Thickness	LF	360.00	445.00	160,200.00	370.00	164,650.00	-10.00	(4,450.00)
23	SP 30-10.1	Extra Premium for Naming Additional Insureds	LS	1.00	1.00	1.00	1.00	1.00	0.00	-
24	SP 30-10.2	Extra Premium for Owner's & Contractor's Protective Policy	LS	1.00	2,900.00	2,900.00	1.00	2,900.00	0.00	-
Subtotal for Base Bid						<u>\$ 1,309,140.00</u>		<u>\$ 1,304,110.92</u>		<u>\$ 5,029.08</u>
Alternate 2 - PAPI's on Runway 1R/19L										
27	SS-305-5.1	Directional Boring, 2-Way 6"C Polyethylene Conduits	LF	230.00	\$ 180.00	\$ 41,400.00	230.00	\$ 41,400.00	0.00	\$ -
28	SS-310-5.1	Existing Vasi System Removed	EA	2.00	504.00	1,008.00	-	-	2.00	1,008.00
29	SS-310-5.2	L-880 PAPI Installed	EA	2.00	23,500.00	47,000.00	2.00	47,000.00	0.00	-
30	L-108-5.1	No. 8 AWG 5kv, L-824C Cable Installed in Trench, Duct Bank or Conduit	LF	15,700.00	1.60	25,120.00	16,550.00	26,480.00	-850.00	(1,360.00)
31	L-108-5.2	No. 6 AWG Solid, Bare Counterpoise Wire Installed in Trench, Duct Bank or	LF	3,100.00	1.13	3,503.00	3,100.00	3,503.00	0.00	-
32	L-109-5.3	Existing Electrical Vault Modifications	LS	1.00	2,700.00	2,700.00	1.00	2,700.00	0.00	-
33	L-110-5.5	Electrical Duct Bank, Concrete Encased, 4-Way 4"C, 24" Minimum Cover	LF	220.00	38.00	8,360.00	200.00	7,600.00	20.00	760.00
34	L-110-5.6	Electrical Duct Bank, Concrete Encased, 4-Way 4"C, 48" Minimum Cover	LF	260.00	43.50	11,310.00	244.00	10,614.00	16.00	696.00
35	L-110-5.7	Electrical Duct Bank, Concrete Encased, 2-Way 4"C, 24" Minimum Cover	LF	80.00	39.50	3,160.00	80.00	3,160.00	0.00	-
36	L-110-5.8	Electrical Duct Bank, Concrete Encased, 2-Way 4"C, 24" Minimum Cover, Including Asphalt Pavement Sawcut, Removal and Repair	LF	40.00	101.00	4,040.00	40.00	4,040.00	0.00	-
37	L-110-5.9	Electrical Duct Bank, 2-Way 4"C, Installed in 6" Boring Sleeve	LF	210.00	200.00	42,000.00	230.00	46,000.00	-20.00	(4,000.00)
38	L-110-5.12	Electrical Duct Bank, Concrete Encased, 2-Way 2"C, 48" Minimum Cover	LF	490.00	31.00	15,190.00	449.00	13,919.00	41.00	1,271.00
39	L-110-5.13	Electrical Conduit, Non-Encased, 1-Way 2"C, 18" Minimum Cover	LF	980.00	7.90	7,742.00	1,236.00	9,764.40	-256.00	(2,022.40)
40	L-115-5.1	Concrete Encased, Electrical Junction Structure, L-867 Class 1, Size 16" Diam	EA	5.00	974.00	4,870.00	5.00	4,870.00	0.00	-
41	L-115-5.2	Precast Concrete Electrical Handhole, 3"Lx3"Wx4"D	EA	3.00	8,800.00	26,400.00	3.00	26,400.00	0.00	-
Subtotal for Alternate 2						<u>\$ 243,803.00</u>		<u>\$ 247,450.40</u>		<u>\$ (3,647.40)</u>
Total for Base Bid and Alternate2						<u>\$ 1,552,943.00</u>		<u>\$ 1,551,561.32</u>		<u>\$ 1,381.68</u>

1. Item 28 was removed as part of Change Order #1

2. Items 25 & 26 (Alternate 1) were removed from the B-2 so they are not shown on the bid tab.

Oklahoma Aeronautics Commission
Operational Audit
Appendix- Project Costs (unaudited) and
Close Out Documentation

NOTICE OF FINAL INSPECTION

Date: 10/18/2013
Project Number: RVS-14-S
Airport: R.L. Jones Jr.

TO: Oklahoma Aeronautics Commission
120 N. Robinson, Suite 1244 W
Oklahoma City OK 73102
(405) 604-6900 – phone
(405) 604-6919 – fax

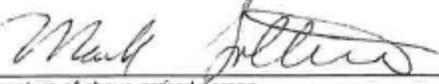
FROM: Mark Soltero
Project Engineer, Mayor, City Manager
P.O. Box 581838
Address
Tulsa, OK 74158
City/Town and Zip Code
918-838-5063
Area Code and Phone Number

This is to advise you that the above referenced project is complete and ready for final

inspection. The final inspection is scheduled to begin at 10:30 AM
(Time)

on 10/25/13 at R.L. Jones Jr. Airport
(Date) (Location)

Prior to making this request, I have carefully gone over this project and have found there to be no known plan omissions and that the work is complete and in reasonably close conformity with approved plans and specifications.


Signature of above named person

Airports Facilities Engineer
Title of above named person

As per OAC, this Notice of Final Inspection is for Project Number RVS-13-FS.

**Oklahoma Aeronautics Commission
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Appendix- Project Costs (unaudited) and
Close Out Documentation**

FINAL INSPECTION REPORT

Date: 10/25/13, Project No: RVS-13^F-S, Airport: R.L. Jones Jr. Airport

TO: Oklahoma Aeronautics Commission
120 N. Robinson, Suite 1244 W
Oklahoma City OK 73102
(405) 604-6900 – phone
(405) 604-6919 – fax

FROM: Kelly Fincannon
Senior Project Manager

6450 S. Lewis, Suite 300
Address

Tulsa, OK 74136
City/Town and Zip Code

918-250-5922
Area Code and Phone Number

Final inspection on the above project was made by Kelly Fincannon
Senior Project Manager

on 10/25/13 at Taxiway 'F' - R.L. Jones Jr. Airport
(Date) (Location)

Personnel attending inspection:

name-title-organization	name-title-organization
Mark Soltero - Facilities Engineer - TAA	Vivek Khanna - Eng. Manager - OAC
Steve Mushrush - Airport Manager - RVS	Niranjan Desai – Eng. - OAC
Kelly Fincannon - Senior PM - Garver	Nick Johnson – Eng. - Garver
Greg Kinsey - Const. Observer - Garver	Russell Rodden – Superintendent - APAC

The project was found acceptable with the exception that the pavement edges need to be graded to 1 ½-inches or less drop off.

Anticipated completion date for above exceptions: Mid-November



Signature of above named person

Senior Project Manager

Title of above named person

Oklahoma Aeronautics Commission
Operational Audit
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FINAL ACCEPTANCE NOTICE

Date: 12/13/2013
Project Number: RVS-13-S
Airport: R.L. Jones Jr. Airport

TO: Oklahoma Aeronautics Commission
120 N. Robinson, Suite 1244 W
Oklahoma City OK 73102
(405) 604-6900 – phone
(405) 604-6919 – fax

FROM: Kelly Fincannon
Senior Project Manager
6450 S. Lewis, Suite 300
Address
Tulsa, OK 74136
City/Town and Zip Code
918-250-5922
Area Code and Phone Number

This is to advise you that the exceptions found at the final inspection have been completed or corrected. The project is accepted by Kelly Fincannon
Senior Project Manager
on 12/13/2013 at Taxiway 'F' - R.L. Jones Jr. Airport
(Date) (Location)


Signature of above named person
Senior Project Manager
Title of above named person

NOTE: If no exceptions are found at the Final Inspection, submit this form at the same time the Final Inspection is completed, showing acceptance of the Project.

As per OAC, this Notice of Final Inspection is for Project Number RVS-13-FS.



OFFICE OF THE STATE AUDITOR & INSPECTOR
2300 N. LINCOLN BOULEVARD, ROOM 100
OKLAHOMA CITY, OK 73105-4896

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