

NF

REQUESTED BY
DOUGLAS COUNTY
IN OFFICIAL RECORDS OF
DOUGLAS CO., NEVADA

2004 DEC -2 AM 11:56

WERNER CHRISTEN
RECORDER

\$ ~~0~~ PAID KJ DEPUTY

Assessor's Parcel Number: N/A

Date: DECEMBER 2, 2004

Recording Requested By:

✓ Name: LYNDA TEGLIA/COMMUNITY DEVELOPMENT

Address: _____

City/State/Zip: _____

Real Property Transfer Tax: \$ N/A

CONTRACT AMENDMENT NO 5 (#2004.274)
(Title of Document)

This page added to provide additional information required by NRS 111.312 Sections 1-2. (Additional recording fee applies)
This cover page must be typed or legibly hand printed.

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BK 1204 PG 00727

FILED

NO. 2004-274

2004 DEC 02 AM 9:43

AMENDMENT NO. 5
Contract Between Douglas County
and
JWA Consulting Engineers, Inc.
Kahle Drive Water Quality Improvement Project

BARBARA REED
CLERK

[Signature]
DEPUTY

Whereas, on July 17, 2003, Douglas County, a political subdivision of the State of Nevada, and JWA Consulting Engineers, Inc., an independent contractor, entered into a contract for Contractor to provide engineering services for design of the Kahle Drive Water Quality Improvement Project; and

Whereas, a pre-project site inventory of plant species was required by the U.S. Forest Service and additional services were required to respond to U.S. Forest Service issues and complete permitting with the U.S. Forest Service as described in Exhibit A; and

Whereas, additional design services were required to conduct hydrology/hydraulic calculations to eliminate parcels from the project area as described in Exhibit A; and

Now, therefore, in consideration of the agreements herein made, the parties mutually agree as follows:

- Contractor agrees to provide the services set forth in the contract and Amendments 1 through 5 for a cost not to exceed a total cost of \$169,450.00. The task amounts shown below cannot be exceeded:

	Contract Amounts Through Amendment No. 4	Amendment No. 5	Revised Contract Amount
• Task A – Administration	\$ 5300.00		\$ 5,300.00
• Task B – Topographic Survey	\$ 8,400.00		\$ 8,400.00
• Task C – Permits & Easements	\$ 16,487.00	\$ 3,950.00	\$ 20,437.00
• Task D – TAC Review Mtg.	\$ 5,200.00		\$ 5,200.00
• Task E – Preliminary Design	\$ 64,700.00		\$ 64,700.00
• Task F – Const. Level Design	\$ 9,400.00	\$ 4,200.00	\$ 13,600.00
• Task G – Bidding Assistance	\$ 6,100.00		\$ 6,100.00
• Task H – Construction Admin.	\$ 44,200.00		\$ 44,200.00
• NDOT Improvements	\$ 1,513.00		\$ 1,513.00
Total Cost	\$161,300.00	\$ 8,150.00	\$169,450.00

R. Mark Hoehn
JWA Consulting Engineers, Inc.

10/14/04
Date

Kelly D. [Signature]
Chairman Board of County Commissioners

11/23/04
Date

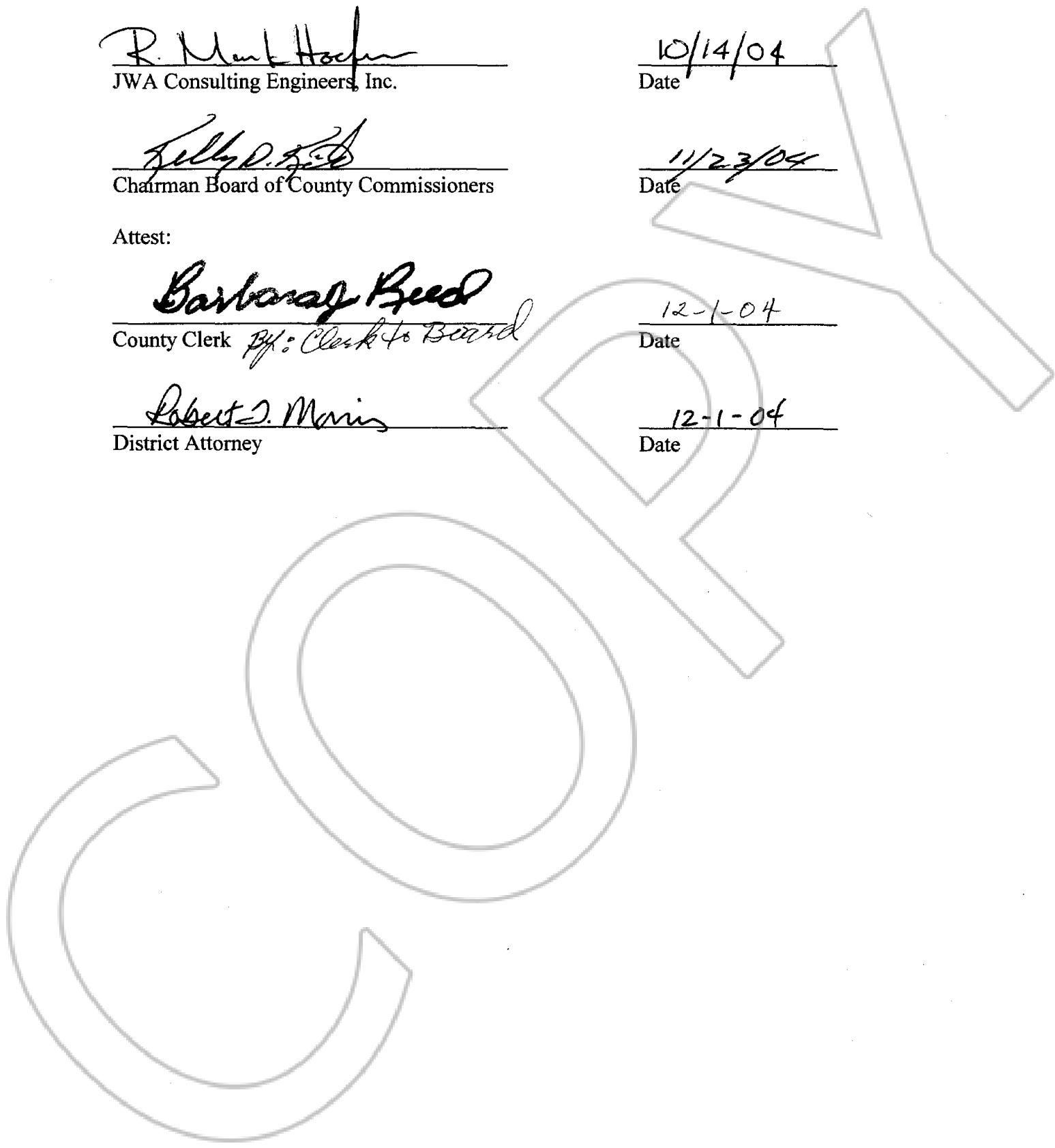
Attest:

Barbara Reed
County Clerk *By: Clerk to Board*

12-1-04
Date

Robert J. Morris
District Attorney

12-1-04
Date





JWA CONSULTING ENGINEERS, INC.

[X] Nevada Office

Mailing:
Post Office Box 1819
Zephyr Cove, NV 89448

Delivery:
276 Kingsbury Grade, Suite 201
Stateline, NV 89449
775 588-7178
Fax 775 588-1726
E-Mail: jwaeast@aol.com

[] California Office:

3480 Buskirk Avenue
Suite 300
Pleasant Hill, CA 94523

925 939-5000
Fax 925 939-5878
E-Mail: jwawest@aol.com

MODIFICATION TO SCOPE OF WORK

SENT VIA: [X] Fax [] Mail Job Number/File N0307.01/Agreement
[] Overnight Mail [X] Hand Delivery
Number of Pages: 3 (includes attachment of Exhibit D)

DATE: October 13, 2004

TO: Ron Roman, P.E.
Associate Engineer
Douglas County Community Development
P.O. Box 218
Minden, NV 89423
Phone: (775) 782-6239
Fax: Speed 77

RECEIVED
OCT 13 2004
DOUGLAS COUNTY
COMMUNITY DEVELOPMENT

FROM: Mark Hoefler, Vice President

PROJECT: Kahle Drive Water Quality Improvement Project

This form has been prepared to request authorization to perform extra work as described below. The work has been accomplished as a part of earlier actions required of JWA but not covered in our original scope of service. This document represents Amendment No. 5 to JWA's contract for design services associated with the above-referenced project.

RETURN VIA: [X] Fax [] Mail

WORK REQUESTED BY: U.S. Forest Service and Technical Advisory Committee (TAC)

SCOPE: 1. Additional Coordination With U.S. Forest Service for Special Use Permit: It became apparent in mid-July, when we had still not obtained the Special Use Permit from the Forest Service to construct improvements in Rabe Meadow, and that additional information would be required in order to satisfy their concerns. Jane Oden, Special Uses Coordinator for the Forest Service, determined that she would need to prepare a project Negative Declaration for this portion of the project. The JWA team was required to respond to a number of questions raised by Jane during this process, and provide the necessary information to back up the answers in some instances. The following is a list of the issues raised by the Forest Service and responded to by the JWA Team:

- Determination on whether enough project scoping had been conducted for the project. (Documentation was provided to show all the agencies which had participated in the review and permitting process, including NDEP, Army Corp, TRPA, Douglas County, etc.)

Continued on Page 2

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- Two rounds of comments were received from the Forest Service's botanist regarding the Biological Evaluation/Biological Assessment (BE/BA) document prepared for the project. The JWA Team was able to respond to these comments by editing the document accordingly and resubmitting the information to the Forest Service.
- Conduct a pre-project site inventory of the plant species and provide this information to the Forest Service in the final BE/BA document.
- Respond to questions raised by the Forest Service's cultural resources person, and meet in the field to show where the planned improvements will be located and to explain the types of improvements.

This work was conducted under task CPE - Permits and Easements.

2. Hydrology/Hydraulic Calculations and Redrafting of the Pipe Profile: As a result of the 90% TAC review meeting conducted in late June, the JWA Team was directed by the TAC to conduct new hydrology/hydraulic analysis for the project area. The new analysis was performed because the area associated with the Lakeside Inn parcel was removed from the project area, with the understanding that the flows produced by this site will be collected and conveyed, by future improvements, to the Edgewood Golf Course located north of the Kahle Drive Water Quality Improvement Project area. The JWA Team's time involved revising the hydrology analysis to determine the new flows for both the required peak design storm event and the treatment storm event. Utilizing these numbers the piping system was re-evaluated through use of StormCAD software, to determine the appropriate inlet and pipe sizes necessary to convey the flows. Finally, based upon the new pipe sizes, the plan and profile associated with the design drawings were updated, which required revisions to pipe inverts, review of cover, evaluation for possible utility conflicts, revisions to quantities for probable construction cost purposes, etc.. This work was conducted under task FFD - Construction Level Design.

FEE: 1. Additional Coordination With U.S. Forest Service for Special Use Permit: Time and material costs associated with this extra work totaled \$3,950.

2. Hydrology/Hydraulic Calculations and Redrafting of the Pipe Profile: Time and material costs associated with this extra work totaled \$4,200.

SCHEDULE: Work has already been accomplished and provided to the U.S. Forest Service and members of the TAC, and incorporated into the plans released to the contractor for construction.

Continued on Page 3

SUMMARY:

DESIGN AND CONSTRUCTION COSTS			
Tasks	Costs Through Amendment 4	Costs for Amendment 5	Total Costs With Amendment 4
Administration	\$5,300	\$0	\$5,300
Topographic Survey	\$8,400	\$0	\$8,400
Permits and Easements	\$16,487	\$3,950	\$20,437
TAC Review Meetings	\$5,200	\$0	\$5,200
Preliminary Design	\$64,700	\$0	\$64,700
Construction Level Design	\$9,400	\$4,200	\$13,600
Bidding Assistance	\$6,100	\$0	\$6,100
Construction Management	\$44,200	\$0	\$44,200
NDOT Improvements	\$1,513	\$0	\$1,513
Total	\$161,300	\$8,150	\$169,450

ATTACHMENT:

Exhibit D - Opinion of Probable Cost for Engineering Services

APPROVED BY: _____

TITLE: _____ DATE: _____

Exhibit A

Amendment No. 5 Page 3 of 4

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EXHIBIT D: OPINION OF PROBABLE COST FOR ENGINEERING SERVICES
OLIVER PARK GID AND KABLE DRIVE WATER QUALITY IMPROVEMENT PROJECT
DOUGLAS COUNTY

Task	Principal Hr	Senior Engineer Hr	Project Engineer Hr	Engineer Hr	Engineer Hr	Computer Specialist Hr	Drafter Hr	Chieftest Hr	Project Expenses	Outside Services	Description	TOTAL JWA ONLY*	TOTAL ALL*
A. ADMINISTRATION													
A.1 Billing/Periodic Project Status Letter	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	C	\$5,300	\$5,300
Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		\$5,300	\$5,300
B. TOPOGRAPHIC SURVEY													
B.1 Primary Field Survey	\$0	\$0	\$0	\$170	\$0	\$0	\$504	\$0	\$0	\$7,500	T	\$900	\$8,400
Subtotal	\$0	\$0	\$0	\$170	\$0	\$0	\$504	\$0	\$0	\$7,500		\$900	\$8,400
C. PERMITS AND EASEMENTS													
C.1 TRPA Permit & Soils-Hydro Report	\$0	\$390	\$2	\$1,105	\$2	\$1,575	\$2	\$168	\$150	\$0	B,C,M	\$3,800	\$3,800
C.2 Douglas County Permit	\$0	\$130	\$2	\$170	\$6	\$450	\$0	\$20	\$100	\$0	B,C,M	\$1,100	\$1,100
C.3 USFS Special Use & BE/BA	\$0	\$1,300	\$4	\$2,550	\$2	\$2,250	\$2	\$160	\$29	\$5,756	B,C,M,W,R	\$7,100	\$12,837
C.4 US Army Corps of Engineers	\$0	\$130	\$0	\$0	\$4	\$300	\$0	\$100	\$0	\$0	C	\$530	\$530
C.5 Easement Plans & Descriptions	\$2,280	\$4	\$520	\$0	\$6	\$510	\$8	\$672	\$100	\$0	B,C	\$2,200	\$2,200
Subtotal	\$2,280	\$19	\$2,470	\$1,784	\$1	\$4,335	\$61	\$1,000	\$379	\$5,756		\$14,723	\$20,437
D. TAC REVIEW MEETINGS													
D.1 25% Design Review Meeting	\$0	\$1	\$0	\$0	\$4	\$300	\$0	\$0	\$25	\$0	C,M	\$900	\$900
D.2 50% Design Review Meeting	\$0	\$1	\$0	\$0	\$4	\$300	\$0	\$0	\$25	\$0	C,M	\$900	\$900
D.3 90% Design Review Meeting	\$0	\$1	\$0	\$0	\$4	\$300	\$0	\$0	\$25	\$0	C,M	\$900	\$900
D.4 Additional Meetings (2)	\$0	\$3	\$390	\$12	\$1,176	\$0	\$0	\$200	\$100	\$0	C,M	\$2,800	\$2,800
Subtotal	\$0	\$5	\$660	\$24	\$2,352	\$0	\$0	\$350	\$75	\$0		\$5,200	\$5,200
E. PRELIMINARY DESIGN													
E.1 Drainage Study	\$0	\$130	\$8	\$784	\$32	\$2,720	\$0	\$336	\$50	\$0		\$4,200	\$4,200
E.2 Design Report	\$0	\$130	\$8	\$784	\$16	\$1,360	\$24	\$672	\$300	\$0		\$5,200	\$5,200
E.3 Utility Coordination	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		\$2,100	\$2,100
E.4 Base Maps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200		\$4,400	\$5,600
E.5 Vegetation Design	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25	\$6,000	K	\$900	\$6,900
E.6 25% Plans	\$0	\$130	\$14	\$1,372	\$14	\$1,190	\$2	\$2,688	\$100	\$0	W,C,F,M	\$5,700	\$5,700
E.7 50% Plans	\$0	\$390	\$20	\$1,700	\$1	\$75	\$20	\$1,680	\$100	\$0	C,P,V	\$4,700	\$4,700
E.8 90% Plans	\$0	\$130	\$7	\$686	\$38	\$3,230	\$2	\$5,040	\$100	\$0	C	\$9,400	\$9,400
E.9 Opinion of Probable Construction Cost	\$0	\$130	\$4	\$392	\$8	\$680	\$0	\$336	\$0	\$4,000		\$1,500	\$4,000
E.10 Geotechnical Investigation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0
E.11 Regional Hydrology	\$0	\$2	\$260	\$4	\$392	\$8	\$680	\$0	\$150	\$0		\$6,600	\$7,600
E.12 Technical Memorandum No. 1	\$0	\$8	\$1,040	\$5	\$490	\$8	\$600	\$0	\$150	\$0		\$6,400	\$6,400
E.13 Groundwater Memorandum	\$0	\$5	\$650	\$1	\$85	\$0	\$0	\$0	\$0	\$0		\$1,400	\$1,400
Subtotal	\$0	\$23	\$2,990	\$63	\$6,174	\$273	\$23,205	\$188	\$11,200	\$11,200		\$53,500	\$64,700
F. CONSTRUCTION-LEVEL DESIGN													
F.1 Construction Plans	\$0	\$6	\$780	\$12	\$1,176	\$32	\$2,720	\$4	\$390	\$48		\$9,400	\$9,400
F.2 Contact Documents/Construction Specifications	\$0	\$2	\$260	\$8	\$784	\$24	\$2,040	\$2	\$150	\$75	B,C	\$3,700	\$3,700
F.3 Opinion of Probable Construction Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	C	\$400	\$400
Subtotal	\$0	\$8	\$1,040	\$21	\$2,058	\$60	\$5,100	\$6	\$450	\$48		\$13,600	\$13,600
G. BIDDING ASSISTANCE													
G.1 Bid Advertisement and Plan Distribution	\$0	\$0	\$0	\$170	\$2	\$170	\$0	\$0	\$200	\$0	B,C	\$900	\$900
G.2 Questions and Addenda	\$0	\$130	\$16	\$1,568	\$6	\$680	\$2	\$168	\$75	\$0	C,F	\$2,900	\$2,900
G.3 Pre-Bid Meeting	\$0	\$0	\$0	\$510	\$0	\$0	\$0	\$0	\$25	\$0	C,M	\$900	\$900
G.4 Bid Opening and Award Recommendation	\$0	\$130	\$2	\$196	\$4	\$340	\$0	\$0	\$25	\$0	C,F,M	\$700	\$700
G.5 Confirmed Documents	\$0	\$0	\$0	\$340	\$0	\$0	\$0	\$0	\$25	\$0	C	\$600	\$600
G.6 Notice to Proceed	\$0	\$0	\$0	\$85	\$0	\$0	\$0	\$0	\$0	\$0		\$100	\$100
Subtotal	\$0	\$2	\$260	\$25	\$2,450	\$25	\$2,125	\$2	\$350	\$0		\$6,100	\$6,100
H. CONSTRUCTION MANAGEMENT SERVICES													
H.1 Preconstruction Meeting	\$0	\$130	\$4	\$392	\$6	\$510	\$0	\$0	\$50	\$0	C,M	\$1,100	\$1,100
H.2 Construction Administration	\$0	\$390	\$7	\$686	\$2	\$4,420	\$0	\$150	\$175	\$5,800	B,C,F	\$5,800	\$5,800
H.3 Construction Observation	\$0	\$5	\$650	\$14	\$1,372	\$168	\$14,280	\$3	\$250	\$5,800	C,F,M,P,W	\$18,100	\$23,900
H.4 Materials Testing	\$0	\$0	\$0	\$340	\$4	\$340	\$0	\$0	\$6,000	\$6,000	MT	\$700	\$6,700
H.5 Project Closeout	\$0	\$0	\$0	\$392	\$8	\$680	\$0	\$100	\$50	\$0	C,F	\$1,200	\$1,200
H.6 Record Drawings	\$0	\$10	\$1,300	\$8	\$3,724	\$52	\$7,420	\$7	\$900	\$11,800	B,C,M,Y	\$5,500	\$5,500
Subtotal	\$0	\$280	\$79	\$10,270	\$213	\$20,874	\$663	\$56,355	\$148	\$11,100		\$32,400	\$44,400
TOTAL												\$131,700	\$167,937
INDOT IMPROVEMENTS													
A. Topographic Survey	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	T	\$0	\$0
B. NDOT Right-of-Way Occupancy Permit	\$0	\$0	\$0	\$0	\$2.5	\$188	\$0	\$0	\$0	\$0	B,C,M	\$198	\$198
C. 25% Plans	\$0	\$0.2	\$26	\$0	\$6.3	\$536	\$2.0	\$150	\$7.1	\$7.50	C,P,V	\$1,315	\$1,315
D. 50% Plans	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	C	\$0	\$0
E. 90% Plans	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	C	\$0	\$0
F. Construction Plans	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	B,C	\$0	\$0
G. Contact Documents/Construction Specifications	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	B,C,F	\$0	\$0
H. Construction Administration	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	C,F,M,P	\$0	\$0
I. Construction Observation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	MT	\$0	\$0
J. Materials Testing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	MT	\$0	\$0
K. Record Drawings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	B,C,M,Y	\$0	\$0
TOTAL	\$0	\$0.2	\$26	\$0	\$6.3	\$536	\$4.5	\$338	\$7.1	\$7.50		\$1,513	\$1,513
GRAND TOTAL	\$2,280	\$79	\$10,296	\$213	\$20,874	\$669	\$56,891	\$153	\$11,438	\$133		\$133,213	\$169,450

Code Descriptions: B-Blueprints, C-Copies, F-FAX, M-Mileage, P-Photos, V-Video, MY-Mylar, T-Turner Surveying, K-Kellogg Aerial, W-Western Botanical Services (Revegetation and BE/BA), MT-Material Testing, R-Wildlife Resource Consultants (BE/BA)
 * Items in these columns have been rounded to the nearest \$100.

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COPY

SEAL

CERTIFIED COPY

The document to which this certificate is attached is a full, true and correct copy of the original on file and on record in my office.

DATE: December 2, 2004

B. Reed Clerk of the 9th Judicial District Court of the State of Nevada, in and for the County of Douglas.

By Dell Mullock Deputy

0630867
BK1204PG00734