



6980 Sierra Center Parkway, Suite 90
Reno, NV 89511

December 18, 2013
File: 1591

Andy Hummel, PE
CITY OF SPARKS PUBLIC WORKS DEPARTMENT
431 Prater Way
Sparks, NV 89431

**RE: North Truckee Drain Phase I
Inspection and Materials Testing Services
Fee Estimate**

Dear Mr. Hummel:

Construction Materials Engineers, Inc. is pleased to provide this fee estimate to provide inspection and materials testing services for the referenced project.

It is understood that Phase I of the project mainly consists of approximately 1609 feet of twin 14'X10' box culverts, 2336 cubic yards of Portland Cement Concrete Pavement on Greg Street, 3321 tons of asphalt concrete pavement on Larkin Circle and miscellaneous underground utility relocations.

Our scope of work is to provide inspection and materials testing of:

*Soil Backfill
Reinforcing Bar
Structural Concrete
Portland Cement Concrete Pavement
Asphalt Concrete Pavement
Underground Utilities*

Our full time inspector will provide a daily field report describing the construction activity for each day including:

*Work Completed
Bid Item Quantities
Number of Construction Personnel On Site
Construction Equipment On Site
Official Visitors to Jobsite
Weather Conditions
Problems Encountered
Accidents*

At the completion of the project a final report of all inspection and materials testing activities will be submitted to the City of Sparks.

It is understood that the anticipated construction schedule to complete this project is 52 weeks total consisting of:

- 35 weeks at five 10-hour days/week
- 24 weeks at five 10-hour days/week for night shifts
- 17 weeks at six 10-hour days/week for Greg Street Phase
- 2 Saturdays at 12-hours/day for Larkin Circle Marathon Phase

Based on this information, we plan to provide one full time inspector during day shift and one full time inspector during night shift. Both inspectors are cross-trained as materials testers and will provided testing of backfill and minor concrete placements eliminating the need for a separate full time materials tester. We will provide materials testers during box culvert concrete placement, PCCP placement and asphalt concrete paving.

Our estimated fees for the above outlined scope of work on this project are \$585,264.00. Actual fees will be invoiced monthly based on time and materials expended. Periodic budget reviews will also be provided. As you know, our fees are dependent on the actual construction schedule and scope of work. Any changes to the schedule or scope of work may result in a change in cost. Attached is our estimate in more detail including unit rates for this project.

We appreciate this opportunity to provide our services. Please do not hesitate to call if you have any questions or comments.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.



Justin Verdie Legg
Project Manager
vlegg@cmenv.com
Direct: 775-737-7567
Mobile: 775-772-0658



Martin N. Crew, PE
President
mcrew@cmenv.com
Direct: 775-737-7562
Mobile: 775-720-4785

JVL:MNC:jy
Enclosures

**CITY OF SPARKS
NORTH TRUCKEE DRAIN
PHASE 1
INSPECTION AND MATERIALS TESTING**

DATE : 12/18/2013

ACTIVITY	QTY/DAYS	HRS/DAY	RATE	TOTAL	COMMENTS
----------	----------	---------	------	-------	----------

PROGRAM ADMINISTRATOR

ONSITE VISITS/REPORTS	260	1	\$ 169.00	\$ 43,940.00	52 WEEKS
VEHICLE	52	1	\$ 10.00	\$ 520.00	

INSPECTOR

INSPECTOR / TESTER REG.	175	8	\$ 93.00	\$ 130,200.00	35 WEEKS 5 DAYS / WK
INSPECTOR / TESTER O.T.	175	2	\$ 121.00	\$ 42,350.00	
NUCLEAR GAUGE			N/C		
VEHICLE	1750		\$ 10.00	\$ 17,500.00	

INSPECTOR - GREG ST PHASE

INSPECTOR / TESTER REG.	85	8	\$ 93.00	\$ 63,240.00	17 WEEKS 6 DAYS / WK
INSPECTOR / TESTER O.T.	85	2	\$ 121.00	\$ 20,570.00	
INSPECTOR / TESTER SATURDAY O.T.	17	10	\$ 121.00	\$ 20,570.00	
NUCLEAR GAUGE			N/C		
VEHICLE	1020		\$ 10.00	\$ 10,200.00	

INSPECTOR - NIGHT SHIFT

INSPECTOR / TESTER REG.	120	8	\$ 93.00	\$ 89,280.00	24 WEEKS 5 DAYS / WK
INSPECTOR / TESTER O.T.	120	2	\$ 121.00	\$ 29,040.00	
NUCLEAR GAUGE			N/C		
VEHICLE	1200		\$ 10.00	\$ 12,000.00	

INSPECTOR - LARKIN CIRCLE MARATHON PHASE

INSPECTOR / TESTER REG.			\$ 93.00	\$ -	
INSPECTOR / TESTER O.T.	2	12	\$ 121.00	\$ 2,904.00	
NUCLEAR GAUGE			N/C		
VEHICLE	24		\$ 10.00	\$ 240.00	

TECHNICIAN - CONCRETE

TECHNICIAN REG.	120	3	\$ 91.00	\$ 32,760.00	
TECHNICIAN O.T.			\$ 118.00	\$ -	
VEHICLE	360		\$ 10.00	\$ 3,600.00	



**CITY OF SPARKS
NORTH TRUCKEE DRAIN
PHASE 1
INSPECTION AND MATERIALS TESTING**

DATE : 12/18/2013

ACTIVITY	QTY/DAYS	HRS/DAY	RATE	TOTAL	COMMENTS
----------	----------	---------	------	-------	----------

TECHNICIANS - GREG ST PCCP

2336 CY / 10 POURS

TECHNICIAN REG.	10	8	\$ 91.00	\$ 7,280.00	SLUMP, AIR, UNIT WGT / 50 CY
TECHNICIAN O.T.	10	2	\$ 118.00	\$ 2,360.00	
VEHICLE	100		\$ 10.00	\$ 1,000.00	
TECHNICIAN REG.	10	8	\$ 91.00	\$ 7,280.00	BEAMS / 2 SETS / POUR
TECHNICIAN O.T.	10	2	\$ 118.00	\$ 2,360.00	
TECHNICIAN REG.	10	1.5	\$ 91.00	\$ 1,365.00	BEAM PICK UP
VEHICLE	115		\$ 10.00	\$ 1,150.00	
BEAMS	20		\$ 450.00	\$ 9,000.00	SETS OF 5
BEAMS FOR EARLY OPENING	10		\$ 180.00	\$ 3,600.00	SETS OF 2

TECHNICIAN - ASPHALT CONCRETE

3321 TONS

TECHNICIAN REG.	3	8	\$ 91.00	\$ 2,184.00	
TECHNICIAN O.T.	3	2	\$ 118.00	\$ 708.00	
NUCLEAR GAUGE			N/C		
VEHICLE	30		\$ 10.00	\$ 300.00	
TECHNICIAN REG. CORING	3	5	\$ 91.00	\$ 1,365.00	
VEHICLE	15		\$ 10.00	\$ 150.00	

LABORATORY TESTING

MOISTURE DENSITY CURVE, SA, PI	10		\$ 425.00	\$ 4,250.00	
CONCRETE CYLINDERS	138		\$ 88.00	\$ 12,144.00	120 POURS / SETS OF 4
CONCRETE CYLINDERS EARLY BREAKS	90		\$ 44.00	\$ 3,960.00	90 POURS / SETS OF 2
R VALUE	3		\$ 250.00	\$ 750.00	
ASPHALT CONCRETE FULL SERIES	7		\$ 735.00	\$ 5,145.00	

ESTIMATED TOTAL FEE \$ 585,265.00

1. CONTRACTOR TO SUPPLY 1 BEAM CURING BOX / TRAILER DURING PCCP CONSTRUCTION
2. BASED ON CME NOT PAYING PREVAILING WAGES