

VASHOE COUNT

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STAFF REPORT **BOARD MEETING DATE: October 27, 2015**

CM/ACM (C Finance D Risk Mgt. HR N/ Comptroller 1

DATE:

October 2, 2015

TO:

Board of County Commissioners

FROM:

Clara Lawson, P.E., PTOE, Licensed Engineer, Engineering and Capital

Projects, Community Services, 328-3603, clawson@washoecounty.us

THROUGH: Dwayne Smith, P.E., Division Director, Engineering and Capital Projects

Community Services Department, 328-2043, desmith@washoecounty.us

SUBJECT:

Recommendation to approve an Interlocal Traffic Signal Maintenance Agreement retroactive to July 1, 2015, between the City of Reno and Washoe County for maintenance of the County's traffic signals for FY 2015-2016 with automatic renewal options through end of FY 2019-2020 for a time and material agreement in the amount [not to exceed \$50,000]

annually]. (All Commission Districts)

SUMMARY

Historically, Washoe County has contracted with the City of Reno to perform maintenance of Washoe County owned traffic signals and school flashers and also to perform USA locates for construction work. Washoe County has 17 traffic signals and approximately 40 school flashers located throughout the unincorporated county areas.

The previous agreements included an annual base fee and quarterly payments based on actual labor costs. Working with the City of Reno, an updated agreement is presented for consideration which eliminates the annual base fee component and includes only the monthly labor costs associated with the required maintenance efforts. The term of the new agreement is five (5) years and includes a retroactive component to July 1st, 2015.

Washoe County benefits from this agreement by avoiding the costs associated with specialty equipment and personnel recognizing the limited number of traffic signals that require maintenance and service on an annual basis.

Washoe County Strategic Objective supported by this item: Safe, secure and healthy communities.

PREVIOUS ACTION

On July 27, 2010, the Board of County Commissioners approved an Agreement for Traffic Signal Maintenance with the City of Reno for an annual fee of \$86,800.

BACKGROUND

The first year of the previous agreement was based on the City of Reno's best estimation on what it would cost to maintain the County's traffic signals. This was determined by calculating the staff-hours per signal for Reno's traffic signal system and using that rate multiplied by the number of traffic signals in Washoe County. The initial annual cost estimate was \$86,800. The estimate for the second and remaining years of the agreement were based on the actual cost of the previous year and were subsequently reduced to approximately \$50,000 per year.

This agreement utilizes the City of Reno's direct costs, but will be paid quarterly as the work is performed. There was a regular charge out rate, overtime rate, equipment rate and materials were based on Reno's direct costs. In the event that Washoe County choses to perform the duties identified under this agreement, the agreement can be terminated in writing and within 60 days.

FISCAL IMPACT

The Fiscal Impact for this agreement is not to exceed \$50,000 per fiscal year. Funding for the Traffic Signal Maintenance contract is budgeted annually in the CSD Engineering & Capital Projects budget under Professional Services. Appropriations in the amount of \$73,000 have been budgeted for FY16 in C105500-710100 for professional services and \$12,000 has been budgeted in FY16 in C105500-710205 for materials.

RECOMMENDATION

It is recommended that the Board of County Commissioners to approve an Interlocal Traffic Signal Maintenance Agreement retroactive to July 1, 2015, between the City of Reno and Washoe County for maintenance of the County's traffic signals for FY 2015-2016 with automatic renewal options through end of FY 2019-2020 [not to exceed \$50,000 annually].

POSSIBLE MOTION

Should the Board agree with staff's recommendation, a possible motion would be: "Move to approve an Interlocal Traffic Signal Maintenance Agreement retroactive to July 1, 2015, between the City of Reno and Washoe County for maintenance of the County's traffic signals for FY 2015-2016 with automatic renewal options through end of FY 2019-2020 in the amount [not to exceed \$50,000 annually].

INTERLOCAL TRAFFIC SIGNAL MAINTENANCE AGREEMENT BETWEEN CITY OF RENO AND WASHOE COUNTY

	THIS INTERLOCAL TRAFFIC SIGNAL MAINTENANCE AGREEMENT made and entered into this
day of	, 2015, by and between the CITY OF RENO, a municipal corporation, hereinafter
called t	he CITY, and WASHOE COUNTY, a political subdivision organized and existing under and by virtue of
the law	s of the State of Nevada, hereinafter called the COUNTY;

WITNESSETH:

WHEREAS, NRS 277.180 provides that any one or more public agencies may contract with any one or more other public agencies to perform any governmental service, activity or undertaking which any of the public agencies entering into the contract is authorized by law to perform; and

WHEREAS, the City and the County are each a "public agency" in accordance with NRS 277.100; and

WHEREAS, it is the COUNTY'S desire to have the CITY provide traffic signal maintenance service for Washoe County traffic signals; and

WHEREAS, the CITY has the equipment and personnel to provide said traffic signal maintenance; and

WHEREAS, the parties previously entered into a five-year traffic-signal-maintenance agreement, dated August 25, 2010; and

NOW, THEREFORE, the CITY and the COUNTY, in consideration of the mutual covenants hereinafter set forth agree as follows:

The CITY agrees:

- 1. To provide 'REGULAR TRAFFIC SIGNAL MAINTENANCE SERVICES' as described in Exhibit A and in accordance with the Maintenance Management System Guidelines, attached as Exhibit D, during normal working hours; provide 'ADDITIONAL TRAFFIC SIGNAL SERVICES' during normal working hours when feasible and overtime hours when needed, to include, but are not limited to items listed in Exhibit A. The Washoe County traffic signals are listed in Exhibit B; signals may be added or deleted by written notification to the Reno Director of Public Works. Services rendered by the CITY shall not exceed a value of \$50,000 per contract year, unless otherwise agreed to in writing by the City's City Manager and the County's County Manager or through their respective designated representative.
- 2. To quarterly, on or about the tenth day of each quarter, provide the COUNTY with a quarterly bill intended to cover all 'REGULAR TRAFFIC SIGNAL MAINTENANCE SERVICES' and 'ADDITIONAL TRAFFIC SIGNAL SERVICES' for work provided during normal working hours and overtime hours according to the fee schedule (Exhibit C).

To annually, on or about February 1st of each year, provide the fee schedule (Exhibit C) for the next budget year, per City's actual operating cost increases for wages, benefits, equipment, fuel etc.

3. To provide monthly documentation of work performed on Washoe County signals, including Maintenance Management System Guidelines records and daily work reports completed by the employee performing work.

The COUNTY agrees:

- 1. This Agreement operates retroactively to July 1, 2015, the beginning of the fiscal year.
- 2. This Agreement replaces the traffic-signal-maintenance agreement between the COUNTY and CITY, dated August 25, 2010.
- 3. To investigate complaints relating to signal maintenance needs before relaying information to the CITY.
- 4. To make payments to the CITY within thirty (30) days of receipt of any billing provided by the CITY.
- To order, pay for and provide the CITY with all materials and supplies requested by the CITY or determined necessary by the COUNTY and associated with traffic signal maintenance and repair, as provided for by this Agreement.
- 6. To notify the CITY of proposed new signal installations and to allow the CITY to review and comment on traffic signal design plans.

Both the CITY and the COUNTY agree:

- 1. That either party, via the CITY'S City Manager or the COUNTY'S County Manager or through their respective designated representative, may terminate this Agreement by giving written notice, sixty (60) days before such termination, to the other party.
- 2. That this Agreement shall be in effect for a period of five years from the date and year first written unless terminated pursuant to (1) above.
- 3. To develop, maintain and adjust, as needed, a protocol for call out of personnel including names, telephone numbers, and instructions for County Sheriff personnel and City dispatchers.
- 4. Subject to the limitations of Chapter 41 of NRS and any other applicable laws, and without waiving its statutory protections, the parties agree that each is responsible for any liability or loss that may be incurred as a result of any claim, demand, cost, or judgment made against that party arising from any negligent act by any of that party's employees, agents, or servants in connection with the performance of this Agreement.
- 5. The parties further agree to the extent allowed by law pursuant to Nevada Revised Statute chapter 41, to hold harmless, indemnify, and defend each other from any and all losses, liabilities, or expenses of any nature to the person or property of another to which each may be subjected as a result of any claim, demand, action or cause of action arising out of the negligent acts, errors, or omissions on the part of the employees, agents, or servants of the others.
- 6. That all communications/notices required pursuant to the Agreement shall be given as hereinafter provided, unless written notice of a new designee is sent certified or registered mail, to the other party, as follows:

COUNTY:	Dave Solaro, P.E. Community Services Direct 1001 E. Ninth Street Reno, Nevada 89512 (775) 328-3600	or		
RENO:	John Flansberg, P.E. Public Works Director P.O. Box 1900 Reno, Nevada 89505 (775) 334-2350			
addre repres	ssed herein. This Agreement is sentations, warranties or cond	agreement of the parties with respect to the matters may not be amended, nor may any of the terms, covenants, ditions hereof be waived, except by a written instrument h such amendment is to be charged.		
	only parties who may enforce ment are the parties hereto	ce this Agreement and any of the rights under this		
In Witness The	ereof, the Parties have execut	ed this Agreement as of the date and year appearing herein		
CITY OF RENO		COUNTY OF WASHOE		
Hillary L. Schie	eve, Mayor	Marsha Berkbigler, Chair Board of County Commissioners		
ATTEST:		ATTEST:		
Reno City Clerk		Washoe County Clerk		

Approved as to Form:

Deputy City Attorney

Exhibit A

Traffic Signal Maintenance Services

Regular Traffic Signal Maintenance Services

- Signal Preventative Maintenance
- Cabinet/ground Preventative Maintenance
- Safety/Conflict Monitors
- General Signal Maintenance
- Illuminated Street Name Sign Maintenance

Additional Traffic Signal Services

Including but not limited to the following

- School Flasher Maintenance
- Signal Response Pedestrian Signal Repair
- Bench Repair
- Vehicle Detection
- Bulb Replace
- Signal Head Repair
- Cabinet Rehab/Construction
- New Signal Inspection
- USA Locates
- Limited Street Light Maintenance

Exhibit B

Washoe County Traffic Signals

Location

- 1. Arrowcreek Pkwy /Zolezzi Lane
- 2. Mt. Rose Hwy/Galena Fire Station
- 3. Mt. Rose Hwy/Thomas Creek Rd
- 4. Mt Rose Hwy/Wedge Pkwy
- 5. Pyramid Blvd/Eagle Canyon Dr
- 6. Pyramid/Blvd/Golden View
- 7. S.R. 28/Country Club Dr
- 8. S.R. 28/Crystal Bay
- 9. S.R. 28/Northwood Blvd/Southwood Blvd
- 10.S.R. 28/Village Blvd
- 11.Sun Valley Blvd/1st Ave
- 12.Sun Valley Blvd/2nd^t Ave
- 13.Sun Valley Blvd/4thAve
- 14.Sun Valley Blvd/5th Ave
- 15.Sun Valley Blvd/7thAve
- 16.Sun Valley Blvd/Dandini Blvd
- 17. Wedge Pkwy/Golden Gate Dr.

Exhibit C

Fee Schedule for FY 2015-2016

The charged rate shall be calculated using a 2.1 multiplier and the current wage rate. As of October 2015 the charged rates are as shown below.

Regular time hourly rate for Traffic Signal Mechanic	\$71.90
Regular time hourly rate for Traffic Signal Technician	\$79.25
Overtime hourly rate for Traffic Signal Mechanic	\$107.85
Overtime hourly rate for Traffic Signal Technician	\$118.88

Equipment per MaintStar charge rates.

Supplies and materials will be charged at cost

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIL	niy i	PM T.SIGNAL	CODE	201
		DESCRIPTION OF WORK		The state of the s
may include repair or reflectors and lenses	or replacen s, touch-up	ad traffic signals following a preventative maintenand nent of damaged or defective signal head componen painting signal heads, inspection of poles, mast arm ping signal heads as necessary.	its, cleaning of all	and a see of
PLANNING of		07/01 08/01 09/01 10/01 11/01 12/01 07/31 08/31 09/30 10/31 11/30 12/31 8 8 9 9 9 9 9 check list may be affected by weather.	01/07 02/01 03/01 04/ 01/31 02/29 03/31 04/ 9 8 §	v01 03/01 06/01 v30 05/31 06/31 8 7
RESOURCE:REQUI	REMENTS	ra manadalanda landa karan manda da d	CHECK PO	OINTS
Personnel TRF SIG MECH <u>Equipment</u> BOOM TRUCK	<u>Qty</u> 1.25 <u>Qty</u> 1.00	PRE-DEPARTURE 1. Ready supplies, equipment and perform CDL inspection check. AT WORK SITE	- Observe traffic flov - Appropriate persor protective equipmen - f-ollow current NV	nal it (PPE)
Materials 3S LENS RAGS HAND HOLE CVR PULL BX LD 5 PULL BOX 5 HACKPLATE	Qty 1.0 EA 2.0 PO 0.1 EA 1.0 EA 1.0 EA	2. Perform visual inspection. Record findings 3. Set up work zones, signs and cones. 4. Carry out maintenance and repair as per check list. 5. Clean up - vacate site. END OF SHIFT 6. Document work, and signal guideline checklist (see attached)	Zone Traffic Control Handbook and MUT - Move work zone si - Complete records	
FEATURE	ΙΝΨέλισές	RYTTEM EFFECTIVE \	SUPERC	rnec
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·	1.50 IN	ISECT	<u> </u>	

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORK ACTIVIT	W.Jai .	CABINET PM	CODE	202
checking operation of	signal and	affic signal cabinet. This includes cleaning of cabine tits components, and making repair as necessary.		Sand Williams
		nts to be properly inspected and maintained.		
	following	07/01 08/01 09/01 10/01 11/01 12/01 07/31 08/31 09/30 10/31 11/30 (12/31 8 8 9 8 8 10 checkllist and includes one operational observation	01/31 02/29 03/31 04 8 8 9 n check	1/30 05/31 06/30 8 8
RESOURCE REQUIR		r months between PM and opeartional check. May	CHECK P	
<u>Personnel</u> TRF SIG TECH	Qty 0.85	PRE-DEPARTURE 1. Ready equipment and perform CDL inspection check.	-Observe operation traffic flow	
Equipment PICKUP/UTIL HY TRUCK SHOP VAC Materials	<u>Qty</u> 1.00 1.00 <u>Qty</u>	AT WORK SITE 2. Perform visual inspection, record findings per check list.	-Follow current N\ ZoneTraffic Contro Handbook and MU -Follow Checklist - Appropriate PPE	ol
RAGS VIRE CLEANING MTL MIS NUTS&BOLT JIR FILTER JAND HOLE CVR LASHER-REG	2.0 PO 1.0 FO 1 0 CA 5 0 EA 1.0 EA 1.0 EA	3. Set up work zone. 4. Carry out maintenance and repair as per check list. 5. Clean up and vacate site. END OF SHIFT 6. Document work. 7. Refuel Vehicles.	- Appropriate PPE -Move work zone si -Complete records	igns/cones
	NVENTO	RY-ITEM EFFECTIVE	SUPER	CEDES
AVERAGE D	ATLY PRO	pućnion	APPROVAL	
	6.00 CA	ABINETS		<u>_ t</u>

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORK ACTIVITY	SAFETY MONITOR	<i>CODE</i> 203
	DESCRIPTION OF WORK	
Return removed unit to signal	management unit from cabinet, exchange with a tested shop test bench and verify correct operation on test ecresults. Accomplishments include both the test (1) and	quipment.
PLANNING CRITERIA	07/01 08/01 09/01 10/01 11/01 12/01 0 07/31 08/31 09/30 10/31 11/30 12/31 0 10 10 9 8 8 7)1/31 02/29 03/31 04/30 05/31 06/30
HMS and HE guidelines requir Accomplishment count = both t	re MMUs be tested and results documented at least or est (1) and replacement (1) for a total of 2.	ice a year.
RESOURCE REQUIRÉMENT	TO THE PROPERTY OF THE PROPERT	CHECK POINTS
	PRE-DEPARTURE	CHECK FORMS
Personnel Qty TRESIGNECH 0.85	Stock truck with supplies and tested units .	- Appropriate PPE
Equipment Qfy PICKUP/UTILITY TRUCK 1.00	AT WORK SITE 2. Place signal on flash 3. Remove existing unit	- Observe traffic flow
Materials Qty iFLICT MONITOR 0.3 EA	 Exchange program card. Ensure copy of test inserted on document pocket Return to operation, observe correct operation. Set time in monitor and verify correct program card Clear existing fault log END OF SHIFT Document work. 	
FEATURE INVENTO	DRY FIEM EFFECTIVE ONITORS	SUPERCEDES
AVERAGE DAILY PRO	ODUCTION A A	PPROVAL
14.00 M	IONITORS	i d

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORK ACTIVITY	SCH FLSH MAINT	205
	DESCRIPTION OF WORK	
setting operation days & times, p	ng of school flasher signals (as supplied on list by So programming "off" days (school holidays), changing c estling operation to insure proper timing of signals and	lock batteries,
signal malfunctions. **RESOURCE REQUIREMENTS: **Personnel*** Qty **TRF SIG MECH*** 1.25 **Equipment*** Qty **BOOM TRUCK*** 0.50	PRE-DEPARTURE 1. Ready equipment and perform CDI inspection check. 2. Determine route	or 0 0 0 20 26 or certain of the control of the certain of the cer
Materials Qty	AT WORK SITE 3. Remove battery - kill power. 4. Install new battery. 5. Reset clock and programs. 6. Set current time, day, month and year. 7. Set on/off holiday schedule. 8. Review program. 9. Test override. 10. Set to normal. 11. Cleaning, bulb change END OF SHIFT 12. Document work.	AC power - Check fuse - Traffic Control Appropriate PPE Check operation of flasher and lights.
FEÄTURE INVENTOI 43.00 LO	CATION	SUPERCEDES (1.54)
AVERAGE DAILY PRO	DUCTION	PPROVAL
1.30 LO	CATION	

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVITY 2	INTERC CABLE	
Traffic Signal Control computer a communications over 8 leased to	Disscription or work ning communications on City owned interconnect and 150 traffic signals. Additionally, work include elephone/data lines to 30 traffic signals. Includes operation of wireless communication.	s maintenance and
Communications problems are re City has 3 cables, 25 pair, 18 pair RESOURCE REQUIREMENTS	07/01 08/01 09/01 10/01 11/01 12/0 07/31 08/31 09/30 10/31 11/30 12/3	F01/01 02/01 03/01 04/01 05/01 06/07 06/07 06/31 04/30 05/31 06/30 05/
1.50	CDL inspection as required 2. Determine shop/field fault. 3. Signal/no signal/hum. 4. Connect signal generator to line. 5. Load equipment.	 Appropriate PPE Copy of interconnect cable wire plan Load test equipment and materials
SPLICE KIT 5.0 EA TAPE 2.0 RO TERMINAL LUGS 10.0 EA	AT WORK SITE 6. Track signal along route. 7. Check signal at destination. 8 Trace line back to source. Break as required to determine fault direction. 9. Find fault. 10. Repair as required/resplice/ replace cable/find spot where contractor dug up and change pair.	- Hook up shop test equipment - Determine repair/replacement complete/clean signal
,	END OF SHIFT 12. Document work.	- Return to shop - Put intersections back on line - Complete records
FEATURE INVENTOR	Y UTEM EFFECTIVE.	SUPERCEDES
50.00 CBL		APPROVAL

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVI	Try was	VMS	330 SYSTEM	MAINT	Ea	ODE	208
The second of th			SESCRIPTION O		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The street,	COLOR BANGS
Enter or modify systete traffic signal malfunct operation log report. backup system paran	ions reported Generate sy	ers as directed by d by the system. rstem reports as r	y traffic engineer Monitor system required. Reloa	ing. Check daily for proper opera d system softwar	ation. Gener re when requ	rate monthly	nd y
PLANNING CR		07/31 08	8/01: 09/01: 10/0 8/39 09/30 10/3 8 9	7	01/31 :02/29	03/01: 06 03/31: 06 8 9	1/01 05/01 06/0 1/30 05/31 06/3 9 8
RESOURCE REQUI	LEMENTS		WORK METHO	Ď.		CHECKI	ONIS :
Personnel TRE SIG TECH	0.85	1. Check syster with monitor or k 2. Check syster 3. Enter timing a with keyboard or 4. Use tape driv required to back 5. Change out s required, repair, repair of failed comanuals.	eyboard, m alarms and pr and data for sigr monitor, re and floppy dis up system, system compone exchange or sei	int reports hals ses as ints as half for	- Monii and disp - Monit	or system a nunicate wi	alarms.
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	8.00 LAB		4 1		***************************************		
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MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVITY	PED SIGNAL REPAIR	CODE	240
	DESCRIPTION OF WORK		
All work required to maintain, rendications and buttons to insure	pair, modify and/or replace malfunctioning pedestr that pedestrian movement is safely controlled and	d coordinated.	99-1 (d.20. Footb
PLANNING CRITERIA	07/01 08/01 09/01 10/01 11/01 12/01 09/01 10/01 11/01 12/01 09/30 10/31 11/30 12/31 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 7 10 7
RESOURCE REQUIREMENTS	WORKMETHOD	. CHECK F	POINTS .
Personnel Qty RF SIG MECH 1.25 RF SIG TECH 0.20 Equipment Qty AN 1.00 Materials Qty S CONVERT KT 4.0 EA JSES 1.0 EA ODULE 7.0 EA JBERICANT 1.0 CA IRE 4.0 FO ED BUTTON 0.3 EA ED DIR SIG 0.3 EA	PRE-DEPARTURE 1. Ready equipment and perform CDL inspection 2. Receive request 3. Proceed to intersection. AT WORK SITE 4. Determine which head has problem 5. Replace or repair module, install conversion kit or repair button. 6. Check sign plates, egg crates, visors & alignment. 7. Check operation. END OF SHIFT 8, Document work.	- Traffic Control - Appropriate PPI - Check for voltage - Check buttons - Check fuses and - Check signal com	wiring ponents
FEATURE INVENTO 1758 4816.00 EA		SUPER	CEDES
AVERAGE DAILY PRO		APPROVAL	

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVITY	BENCH REPAIR	CODE 241
The state of the s	DESCRIPTION OF WORK	and the state of the state of
controllers, safety monitors; or related components.	noot and repair faulty electronic traffic signal component opticom detectors, vehicle detectors, modems, power sing, new evaluation and repair.	s, such as; signal supplies and other
, ,		
PLANNING CRITERIA Performed as required.	07/01 08/01 09/01 10/01 11/01 12/01 07/31 08/31 09/30 10/31 11/30 12/31 09/30 10/31 11/30 12/31 00 00 00 00 00 00 00 00 00 00 00 00 00	01/201 \(\frac{602/01}{02/29} \) \(\frac{03/01}{03/31} \) \(\frac{04/01}{04/30} \) \(\frac{05/01}{05/31} \) \(\frac{06/30}{06/30} \) \(\frac{7}{2} \) \(\frac{8}{2} \) \(\frac{9}{2} \)
RPSOURGE REQUIRÊMENT	IS TO WORK METHOD AND A STATE OF THE STATE O	CHECK POINTS
للسنسيسية كالمداوات المحادث البلا يتولوا لإيقادات الروا	AT DENOL	- ID tag
Personnel Qtr TRF SIG TECH 0.85	1. Determine problem/trouble type	- Manufacturer's manuals schematics - Determine operating
	2. Troubleshoot. 3. Make repairs.	correctly
	4. Run equipment for extended period.	- Check under temp extremes - Sign off
	Sign off/log in computer - if applicable. Return warranty items for repair.	- Return to stock
	7. Document work.	
	·	
	'	
FEATURE INVEN	TORY ITEM EFFECTIVE	SUPERCEDES:
227.00		
AVERAGE DAILY P.	RODUCTION	APPROVAL.
9.00	LABOR HR	1
		A PARTY OF THE PAR

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVITY	LOOP/DE	TECTION MAINT	CODE	242
	Per Chesch	MPTION OF WORK	1000	The state of the s
All work required to diagnose mate insure proper detection loop of the insure properties. Performed as required in respons Personnel Qty TRF SIG MECH 1.50 TRF SIG MECH 1.50 TRF SIG TECH 0.40 Fquipment Qty PICKUP/UTILITY TRUCK 1.00 Materials Qty AMPLIFIER 0.1 EA CABLE 4.0 FO NUTS/LUGS 10.0 EA SEALING PACS 2.0 EA WIRE NUTS 5.0 EA	DESCROINTAIN and/or repair traff peration and safely continued by the safely c	ic detector loop malfund rol traffic movement at in 19/01 1/01 1/01 1/01 12/09/30 10/31 11/30 12/09/30 as needed. KMETTOD and perform a detector problem. Controller cabinet or and test.	otions. Activity is performater sections. 07. 07/07. 02/01. 03/07. 03/0	med 04/01 05/01 06/01 03/30 05/31 06/30 8 8 9 K POINTS PE
FEATURE INVENTOR 6210.00 LO	OPS	EFFECTIVE		PERCEDES
AVERAGE DAILY PROL	DUCTION		APPROVAL	
9.00 LAI	BOR HR			

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORK ACTIVITY	VIDEO MICR DECTECTORS	CODE	243
	DESCRIPTION OF WORK		
All work required to diagnose, m to ensure safe operation and sal	aintain and/or repair video/microwave detectors. fety control traffic movement at intersections. 67/61 68/61 69/61 10/61 11/61 12/61		4/0:1.\ 05/01\ \08/0
PLANNING CRITERIA,	9 9 9 8 8 8 se to service requests or as needed.	01/31 02/29 03/31 0 8 6 6 10	4/30 05/31, 06/3 9
RESOURCE REQUIREMENTS.	WORK METHOD 40	CHECKI	POIÑTS .
Personnel Qty RF SIG MECH 1.75 RF SIG TECH 0.40 Equipment Qty	PRE-DEPARTURE 1. Ready equipment and perform CDL inspection 2. Travel to work stie	- Traffic Control - Appropriate PPE - Check connectio	
ROOM TRUCK 1.00 IPRESSOR 1.00 IPRESSOR 1.00 ICKUP/UTILITY TRUCK 1.50 Materials Qty OOP WIRE 500.0 FO EALANT (LOOPS) 24.0 PO	AT WORK SITE 3. Connect lap top as required. 4. Connect video monitor as required. 5. Analyze problem and observe operation 6. Check programming 7. Change as needed. END OF SHIFT 8. Document work.	Observe operation	•
FEATURE INVENTO	The same of the same and the sa	SUPEI	RCEDES
AVERAGE DAILY PRO	DUCTION	APPROYAL	
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MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVITY	LED R	EPLACE	[GODE]]	245
	DESCRII	TION OF WORK		
All work required to replace LEI	Os as needed.			
PLANNING CRITERIA erformed as needed.	07/101 08/01 09/ 07/31 08/31 09/ 71 8	01 10/01 11/01 12/01 30 10/31 11/30 12/31 9 10 9 9	01/01 02/01 03/01 01/31 02/29 03/31 8 8 S	04/01 05/01 06/0 04/30 05/31 06/3 3 8
RESOURCE REQUIREMENTS		WILTHOP .	CDEC - Appropriate PF	K POIN'IS
Personnel Qty TRE SIG MECH 1.25 Equipment Qty OOM TRUCK 1.00 Materials Qty AL LAMP LED 11.0 EA	PRE-DEPARTURE 1. Ready and perform C 2. Pick up boom truck. 3. Load LEDs AT WORK SITE 4. Replace LED END OF SHIFT 5. Document work	DL inspection check.	- Follow current Zone Traffic Con Haridbook and North Head a tightness Check hackplatess	ot NV Work ntrol MUTCD lignment and
FEATURE INVENTO	RYITEM	EFFECTIVE	SUI SUI	PERCEDES
TEATURE INVENTORY ITEM 3000.00 EACH		3		
AVERAGE DAILY PRO	DUCTION		APPROVAU	
15.00 LE	DS E			

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTIVITY	SIGNAL HEAD REPA	AIR	CODE	247
	DESCRIPTION OF B			
Control of the Contro	### DESCRIPTION OF BUSINESS, visors, back plates, sockets, internation of traffic signal. ###################################	ORK al wires, alignment, 1/01 12/01 01/01 1/30 12/31 01/31 8 9 7 - A	02/01 03/01 0	01/01 05/01 06/01 05/30 05/31 06/30 8 8 10
AVERAGE DĄILYPK	SIGNAL HD	FECTIVE APPRO	SUPÉR VAL	

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORK ACTIV	TY.	ILLUM STR NAME SIGN MAINT	CODE , 252
The second secon		DESCRIPTION OF WORK	
ballasts, fuses, wirin	g, missing o	nated street signs. Work may include replaceme r damaged name panels and checking sign moulon to motorists and pedestrians.	nt of buibs, nting hardware. 1 07/01 02/01 03/01 004/01 05/01 06/01 01/31 02/29 03/31 04/30 05/31 06/30
Performed in respon	se lo service	e requests or as reported in quarterly street light	9 8 8 9 8 8 survey and every
36 months per local	standards.	Todato of ab toponoa in quanto y onout ign	,
Personnel TRE SIG MECH TRE SIG TECH Equipment POOM TRUCK Materials EL BALLAST	F SIG MECH 1.25	PRE-DEPARTURE 1. Pick up boom truck and perform CDL inspection check. 2. Load materials. 3. Check quarterly list & establish route. 4. Proceed to work location. AT WORK SITE	- Set up route - Appropriate PPE - Follow current NV Work Zone Traffic Control Handbook and MUTCD - Check for incoming voltage - Check fuses
FL BULBS FUSES FEALING PAGS FOCKETS FAPE		5. Setup work zone as needed 6. Turn on override or cover photo control. 7. Replace bulbs. 8. Check panel thumb screws. 9. Check mounting and hardware. 10. Uncover photo control. END OF SHIFT 11. Document work.	- Trouble shoot sockets and ballasts Replace or repair as needed
	<i>INVENTOR</i> 800.00 SIG	<u> من من من من من من من من من شور من </u>	SUPERCEDES
AVERAGE L			APPROVAL
	7.00 SIG	NS	

MAINTENANCE MANAGEMENT SYSTEM

City of Reno

WORKACTI	VITY	ILLUM STREET SIGNS	.CODE 253
		DESCRIPTION OF WORK	
This effort insures	oroper direc	10 10 9 8 8	nting hardware. 1 01/01 02/01 03/01 04/01 05/01 06/0 1 01/31 02/29 03/31 04/30 03/31 06/3
Signs include one w	nse to servi ay arrows a	ce requests or as reported in street liight quarterly nd No left turn signs.	survey.
RESOURCEREQU	TREMENTS		CHECK POINTS
Personnel TRF SIG MECH TRF SIG TECH Equipment	1.00 0.40 Qty	1. Pick up boom truck and perform CDL inspection check. 2. Load materials. 3. Check requests & establish route.	- Set up route - Appropriate PPE - Follow current NV Work
Materials BALLAST FLOURES TUBES PHOTOCELLS	1 00 Qty 1.0 EA 20.0 EA 2.0 EA	4. Proceed to work location. AT WORK SITE 5. Setup work zone as needed. 6. Turn on override or cover photo control. 7. Replace bulbs. 8. Check panel thumb screws. 9. Check mounting and securoness of hardware. 10. Uncover photo control. END OF SHIFT 11. Document work.	Zone Traffic Control Handbook and MUTCU - Check for incoming voltage - Check fuses - Trouble shoot sockets and ballasts - Replace or repair as needed
14211 010	100.00 SIG		SUPERCEDES
AVERAGE I	DAILY PRO	DUCTION :	APPROVAL
	4.00 SIG	SNS	