

CLACKAMAS C800 RADIO GROUP

BOARD OF DIRECTORS MEETING

November 18, 2020 / 9:00AM

This will be a ZOOM Meeting

Join Zoom Meeting

<https://clackamascounty.zoom.us/j/81533228102>

Phone In: 253-215-8782 / Meeting ID: 815 3322 8102

1. Call the C800 Board of Directors meeting to Order -Chair Sue Scobert
2. Roll Call of Partners: (19/10)
 - City of Canby
 - City of Gladstone
 - City of Lake Oswego
 - City of Milwaukie
 - City of Molalla
 - City of Oregon City
 - City of Sandy
 - City of West Linn
 - Aurora Fire District
 - Canby Fire District
 - Clackamas County Fire District #1
 - Colton Fire District
 - Estacada Fire District
 - Hoodland Fire District
 - Molalla Fire District
 - Sandy Fire District
 - Tualatin Valley Fire & Rescue
 - Clackamas County Sheriff
 - Clackamas County Health
3. *Approval of Minutes of October 21, 2020 Board Meeting - Sue Scobert
4. Public Comment - Sue Scobert
5. Communications - John Hartsock
6. Financial Report - October 2020 - John Hartsock
7. Committee Reports
 - Executive Committee - Sue Scobert
 - Technical Committee - John Hartsock
 - Citizen Accountability - John Hartsock - Next Meeting Dec 16, 2020
8. Old Business: (* Action Item)
 - System Management: - Ron Polluconi
 - System Upgrade/Replacement
 - Project Status / Procurement - Bjorn Morfin / John Hartsock
 - Fire Station Alerting - John Hartsock
 - 800 MHz Paging (voice) - Ron Polluconi
 - Portable Radio Antenna - Ron Polluconi
 - DVRS - repeaters - Ron Polluconi
9. New Business: (* Action Item)

CLACKAMAS C800 RADIO GROUP

BOARD OF DIRECTORS MEETING

Meeting Minutes of the October 21, 2020 Meeting

This meeting was held via ZOOM.

1. C800 Board Meeting Called to Order at 0904 by Vice Chair Chief Bret Smith.

2. The following were in attendance:

City of Canby: Chief Bret Smith

City of Gladstone: Chief John Schmerber / Randy Hopperstad

City of Lake Oswego: Chief Don Johnson

City of Molalla: Chief Frank Schoenfeld

City of Oregon City: Chief Jim Band

City of Sandy: Chief Ernie Roberts

City of West Linn: Rollins

Aurora Fire: Ops Chief Greg Dyke

Canby Fire District: Chief Jim Davis

Colton Fire: Chief Richard Beaudoin

Clackamas County Fire District #1; Div Chief Mike Corless Jessamyn Ode

Estacada Fire District: Div Chief Mike Corless

Molalla Fire District: Mike Penunuri

Tualatin Valley Fire & Rescue: Ass't Chief Mark Havener

Clackamas County Sheriff: Capt James Rhodes

Clackamas County Health: Bill Conway

Clackamas County Treasure: Brian Nava

Clackamas County Disaster Mgmt: Jamie Poole

CCOM: Meg Neece / Tony Collins

WCCCA: Ron Polluconi / Jennifer Reese

C800: John Hartsock / Bjorn Morfin

Skyland: Paul Zaninovich / Melissa Framiglio / Daniel Kearns

3. Approval of Minutes – August 19, 2020 Board Meeting Frank Schoenfeld moved, and John Schmerber seconded. Motion passed unanimously.

4. Public Comment: None.

5. Communications: None.

6. Financial Report – July / August / September 2020 - John Hartsock

John explained that all the financial reports are in the packet. Everything is tracking on budget.

A. Approval of Budget Clarification – John reported that they noticed in the approved budget, that the line items for member fee and partner fee were reversed. It was a typo, and this has been fixed and he requested that the Board approve this change.

Jim Band moved and Randy Hopperstad from Gladstone seconded. Motion passed unanimously.

7. Committee Reports

Executive Committee – Bret Smith: Did not meet, no report.

Technical Committee - John Hartsock: John reported that the committee met on Sept. 30. They went over site and system issues, issues due to the wildfires, the LOCOM move, the CCOM upgrades, and the logging recorder.

Citizen Accountability - John Hartsock: John reported that they met on Sept. 23 and three of the committee members were present and Chief Corless, Chief Huffman, and Brian Nava. There were concerns regarding details on the budget. The members continue to be supportive and helpful.

8. Old Business:

System Management - Ron Polluconi: Ron reported that they had a microwave outage due to a water leak at the Day Hill site. That was out for about a week. They gave up on repair activities and have moved to doing an emergency replacement. Due to this, parts of Estacada were shadowed. They had site trunking in that area for about a week. This allows for communication between officers in the area but doesn't allow wide area communications. He expected that this would be repaired sometime that day. They will send a notice out once it is.

Ron reported that there were a couple minor failures and problems and one that was somewhat impactful. When the area experienced those large winds, one AC unit up at Timberline allowed a massive amount of dust inundation. They spent two days getting the dust out of all the equipment and out of the shelter. They've since found the problem and the HVAC system is now repaired.

Ron shared that the fuel has been managed, and they are ready for winter. They are conducting ongoing inspections looking for any minor issues. They want to make sure they don't have anything covered up by snow.

System Upgrade/Replacement – John shared the site map. Bjorn reported that all the upgrades have been made except at Goat Mountain. Due to the wildfires, they have had to do some removal of trees. They should finish up next week.

For the new sites, the wildfires put them on standstill for all the Estacada sites.

Memaloose: Construction is complete. The road to this site has lots of logs and trees down. They are working with the forest service to clear the road. They are not sure what the fire damage is yet. They may have lost the propane tank.

Whalehead: It's a similar situation to Memaloose. It was 75% complete but since the wildfires, they have lost their propane tank.

Oak Grove Butte: He doesn't anticipate any damage. They are 40% done with construction. They just got approval to clear that road. The contractor will be on site on 10/21 and will report back to Bjorn.

TD&H – Bjorn just picked up the easement this morning which Ski Bowl has signed. Once John signs, Bjorn will get that document to the forest service so they can get their permit. The goal is to get started this year.

The Lake Oswego and West Linn sites are on hold until next year. They will be working with City of Lake Oswego / City of West Linn and Clackamas County for potential solutions.

John said that he applied for FEMA funds for any damage to Memaloose, Whalehead, and access up to Oak Grove. The extent of the damage is unknown at this time. From the aerial photos, it doesn't look like there is fire damage (besides the propane tanks) but the heat may have caused damage to the AC units or the wiring.

John shared that they have bids coming in for the security closed circuit TV system this Tuesday. They are still putting together the package for the existing tower antenna relocation and the removal of the old towers.

He shared that radio is continuing with the install. The microwave contractor is out of Florida. They are really pushing to get their infrastructure in place so they can start testing. They will know more later that afternoon.

John showed pictures of the Whalehead, Oak Grove Butte, and Memaloose sites. Bjorn said that the fire was several miles from the Oak Grove site. John pointed out that the fire breaks around the sites hopefully prevented damage to the towers.

Project Status/Procurement – Bjorn Morfin / John Hartsock:

Fire Station Alerting/Paging-John Hartsock: John reported that its up and running. He was not aware of any issues. They are working through the details of ongoing maintenance and support. They hope to have it resolved in the next 30-45 days.

Paging transmitters are ready to start being placed. Ron has been leaving messages regarding the replacement servers. He has not received a call back yet. They will look at their new technology when he gets a response from them. He will try reaching them via other avenues.

800 MHz Paging (voice) - Ron Polluconi: Ron had nothing new to report.

Portable/Mobile Radio Deployment – Todd Matsuo: Todd was unable to attend – continuing to upgrade radios,

Portable Radio Antenna- Ron Polluconi: Ron reported that they have the final report from Motorola on the triband. They have already distributing the monoband. They placed an order for the triband antenna. They are going to do a 100% replacement on all radios that are triband capable. They will get those distributed as soon as they are received.

DVRS – repeaters – Ron Polluconi: He has not heard any updates. Lake Oswego continues to ask questions to get things set up. That's the only communication Ron has received.

Questions / Comments: Bret had a follow up questions regarding the wildfires. He asked if fire breaks were common? Is there damage received that perhaps indicates those fire breaks should be larger? What can be learned from the wildfires? Could they use the C800 bond for repairs?

John said he would have to look at the bond documents. Their first step would be FEMA grants, second step is insurance, and the third step would be the bond money. He would need to make sure that it would be an allowed expense.

Jamie Poole said FEMA would only cover what insurance didn't cover. They will discuss more off the call.

Bjorn said he learned a valuable lesson through the wildfires. It shows how important the fire breaks are. They will need to visit the sites to see how much damage there is. They are definitely a good thing and a suitable distance (about 30 feet).

New Business (*Action Item)

*** Transfer of Assets to ODOT – John Hartsock**

ODOT contacted C800 as they lost their Mt. Hagan site during the Holiday Farm Fire. They needed to get that site back online and they had potential bad weather coming in. They asked John and Ron if they had any excess buildings. C800 did have an extra that they were paying storage on. They offered it along with the generator. They wanted to serve a real need for ODOT. He strongly recommended the transfer of assets to them.

Randy from Gladstone Fire moved, and Chief Don Johnson from Lake Oswego seconded. Motion passed unanimously.

*** Approval of Contract for LOCOM Antennas – John Hartsock**

John explained that part of the project was running antenna cable and installing antennas at LOCOM for their new dispatch center. This work was included within the microwave networks and Motorola contracts, but it wasn't at prevailing wage. The attorney for Lake Oswego determined that since the work is for a new building that it should be at prevailing wage. So instead of changing the contract (which could cost a premium), they felt it was better to take a credit and bid this work out. The low bid was \$27,175 from Lexicom. They are currently already doing work for C800. He feels it's a fair number and the work will start in early November.

Jim Band of Oregon City moved and Chief Mike Corless of Clackamas Fire seconded. Motion passed unanimously.

*** Approval of Audit Engagement for annual audit – John Hartsock**

John explained that this was the audit engagement letter from Jarrard, Seibert, Pollard, & Co. LLC. This is the final year of the contract with them. Previously they did a joint RFP with Clackamas Fire. He will be discussing the RFP for next year with them also. This is approval for the 2019/2020 fiscal year audit for a fee not to exceed \$6,670.

Jim Band of Oregon City motioned, and Ernie Roberts of Sandy seconded. Motion passed unanimously.

*** Approval of Modified IGA with Clackamas County – John Hartsock**

John explained that when they originally did the IGA with Clackamas County, one of the items was an issue of reimbursement of their internal expenses. They were related to managing the bond and the outside services such as bond council, analysis on the arbitrage, etc. It was never defined what the cost would be. This amendment defines those costs. John felt the costs were reasonable. The attorney worked on the language and she recommended approval also.

Mike Corless of Clackamas Fire moved, and Don Johnson of Lake Oswego seconded. Motion passed unanimously.

Next Board Meeting

Next meeting November 18, 2020 9:00AM Location: Zoom

9. Open Agenda – None

10. Adjournment - Meeting adjourned at 9:39 AM

- * Approval of Contract for Video Security System - John Hartsock
- * Approval of Change Order Motorola - John Hartsock
- **Next Board Meeting December 16, 2020 9:00A Location: Zoom Meeting**

10. Open Agenda

11. Adjournment

Clackamas 800 Radio Group

Profit & Loss Budget vs. Actual

July through October 2020

	Jul - Oct 20	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
401-00 · Beginning Fund Balance	0.00	1,252,328.00	-1,252,328.00	0.0%
405-00 · Members Contracts	66,220.00	68,800.00	-2,580.00	96.3%
410-00 · Partners Fees	1,069,108.20	1,049,200.00	19,908.20	101.9%
420-00 · Partners Debt Service Zone Cont	0.00	0.00	0.00	0.0%
421-00 · Partner Debt Service Microwave	0.00	0.00	0.00	0.0%
430-00 · Subscriber Radio Payments	109,671.73	125,000.00	-15,328.27	87.7%
431-00 · Interest Income	45.59	800.00	-754.41	5.7%
435-00 · Lease Revenue	2,842.34	66,625.00	-63,782.66	4.3%
440-00 · Miscellaneous Income	0.00	500.00	-500.00	0.0%
450-00 · Intergovernmental-Clackamas Co	4,182,051.98	15,000,000.00	-10,817,948.02	27.9%
455-00 · Bond Interest Income	0.00	0.00	0.00	0.0%
Total Income	5,429,939.84	17,563,253.00	-12,133,313.16	30.9%
Gross Profit	5,429,939.84	17,563,253.00	-12,133,313.16	30.9%
Expense				
605-00 · Site Rental	54,381.93	212,512.00	-158,130.07	25.6%
610-00 · Fuel/Generators	4,493.81	14,625.00	-10,131.19	30.7%
615-00 · HVAC Maintenance	4,152.00	22,100.00	-17,948.00	18.8%
620-00 · Landscape Maintenance	13,560.00	13,500.00	60.00	100.4%
621-00 · Office Supplies	0.00	1,500.00	-1,500.00	0.0%
622-00 · Bad Debt Expense	19,350.00			
625-00 · Generator Maintenance	0.00	25,000.00	-25,000.00	0.0%
630-00 · UPS Maintenance	0.00	7,500.00	-7,500.00	0.0%
635-00 · Battery Maintenance	0.00	5,000.00	-5,000.00	0.0%
645-00 · Insurance	1,552.59	50,000.00	-48,447.41	3.1%
650-00 · Utilities	22,809.12	135,000.00	-112,190.88	16.9%
655-00 · Consultant Services	18,478.00	55,000.00	-36,522.00	33.6%
657-00 · Regional Radio Expense	0.00	1,500.00	-1,500.00	0.0%
660-00 · WCCCA System Fees	379,108.50	758,217.00	-379,108.50	50.0%
665-00 · Radio Maintenance Fees	49,911.56	50,000.00	-88.44	99.8%
670-00 · Legal Services	850.00	7,500.00	-6,650.00	11.3%
675-00 · Financial Services	2,140.00	9,500.00	-7,360.00	22.5%
680-00 · Audit Fees	4,500.00	10,000.00	-5,500.00	45.0%
683-00 · Capital Reserve	0.00	150,000.00	-150,000.00	0.0%
685-00 · Miscellaneous Expenses	0.20	7,418.00	-7,417.80	0.0%
686-00 · Meeting Expenses	100.00	2,500.00	-2,400.00	4.0%
703-00 · Capital Outlay				
703-01 · Buildings & Land Improvement				
703-011 · Land Improvement	4,018,580.62	0.00	4,018,580.62	100.0%
703-012 · Building	6,216.00	0.00	6,216.00	100.0%
703-013 · Tower	0.00	0.00	0.00	0.0%
703-014 · Generator	24,498.00	0.00	24,498.00	100.0%
703-01 · Buildings & Land Improvement - Other	0.00	0.00	0.00	0.0%
Total 703-01 · Buildings & Land Improvement	4,049,294.62	0.00	4,049,294.62	100.0%
703-02 · Radio Backbone				
703-021 · Simulcast / Master Site	33,897.43	0.00	33,897.43	100.0%
703-022 · Subscriber Radios	0.00	0.00	0.00	0.0%
703-024 · Paging	51,845.82			
703-026 · Cat. 6 Fire Station Alerting	78,414.54			
Total 703-02 · Radio Backbone	164,157.79	0.00	164,157.79	100.0%
703-03 · Equipment				
703-031 · Security System	164.68			
703-032 · DC Power	777.78	0.00	777.78	100.0%
703-034 · Microwave	38,774.20	0.00	38,774.20	100.0%
703-03 · Equipment - Other	0.00	0.00	0.00	0.0%
Total 703-03 · Equipment	39,716.66	0.00	39,716.66	100.0%
703-00 · Capital Outlay - Other	0.00	15,800,000.00	-15,800,000.00	0.0%
Total 703-00 · Capital Outlay	4,253,169.07	15,800,000.00	-11,546,830.93	26.9%

8:29 AM

11/11/20

Accrual Basis

Clackamas 800 Radio Group
Profit & Loss Budget vs. Actual
 July through October 2020

	Jul - Oct 20	Budget	\$ Over Budget	% of Budget
795-00 · Debt Service	0.00	0.00	0.00	0.0%
800-00 · Operating Contingency	0.00	100,000.00	-100,000.00	0.0%
999-00 · Unappropriated End Fund Bal	0.00	124,881.00	-124,881.00	0.0%
Total Expense	4,828,556.78	17,563,253.00	-12,734,696.22	27.5%
Net Ordinary Income	601,383.06	0.00	601,383.06	100.0%
Net Income	601,383.06	0.00	601,383.06	100.0%

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Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

October 2020

Type	Date	Num	Name	Memo	Class	Amount	Balance
Ordinary Income/Expense							
Income							
405-00 · Members Contracts							
Credit Memo	10/29/2020	19-314	Lake Oswego Lake Corporation	Credit for inv# 19-299 - incorr...		-860.00	-860.00
Total 405-00 · Members Contracts						-860.00	-860.00
410-00 · Partners Fees							
Credit Memo	10/28/2020	19-312	Canby FD	Partner Voice Radios - credit ...		-11,481.80	-11,481.80
Total 410-00 · Partners Fees						-11,481.80	-11,481.80
430-00 · Subscriber Radio Payments							
Invoice	10/13/2020	19-311	Clackamas County Community Colle...	Total List Price (New Radios)		26,112.00	26,112.00
Invoice	10/13/2020	19-311	Clackamas County Community Colle...	Discount @ 48%		-12,533.66	13,578.34
Invoice	10/13/2020	19-311	Clackamas County Community Colle...	C800 Stipend		-8,316.00	5,262.34
Invoice	10/29/2020	19-313	Canby FD	Total List Price (New Radios)		334,605.00	339,867.34
Invoice	10/29/2020	19-313	Canby FD	Discount @ 48%		-160,610.40	179,256.94
Invoice	10/29/2020	19-313	Canby FD	C800 Stipend		-46,372.09	132,884.85
Invoice	10/29/2020	19-313	Canby FD	Previous payment applied		-23,213.12	109,671.73
Total 430-00 · Subscriber Radio Payments						109,671.73	109,671.73
431-00 · Interest Income							
Deposit	10/31/2020			Interest		14.60	14.60
Total 431-00 · Interest Income						14.60	14.60
450-00 · Intergovernmental-Clackamas Co							
Deposit	10/23/2020		Clackamas County - Bond Related	September 2020 Expenditure...		816,304.65	816,304.65
Total 450-00 · Intergovernmental-Clackamas Co						816,304.65	816,304.65
Total Income						913,649.18	913,649.18
Gross Profit						913,649.18	913,649.18
Expense							
615-00 · HVAC Maintenance							
Bill	10/01/2020	157692	Hunter-Davison, Inc.			1,255.00	1,255.00
Total 615-00 · HVAC Maintenance						1,255.00	1,255.00
620-00 · Landscape Maintenance							
Bill	10/30/2020	20-2331	Valley View Landworks			13,560.00	13,560.00
Total 620-00 · Landscape Maintenance						13,560.00	13,560.00
645-00 · Insurance							
Bill	10/07/2020	1007	SDAO	SDAO Membership		1,552.59	1,552.59
Total 645-00 · Insurance						1,552.59	1,552.59
650-00 · Utilities							
Check	10/01/2020	EFT	PGE			308.78	308.78
Check	10/01/2020	EFT	PGE			415.98	724.76
Check	10/05/2020	EFT	PGE			153.12	877.88
Check	10/06/2020	EFT	PGE			116.05	993.93
Check	10/06/2020	EFT	PGE			450.64	1,444.57
Check	10/07/2020	EFT	PGE			189.97	1,634.54
Check	10/08/2020	EFT	PGE			443.66	2,078.20
Check	10/13/2020	EFT	PGE			243.23	2,321.43
Check	10/15/2020	EFT	PGE			463.44	2,784.87
Check	10/16/2020	EFT	PGE			72.25	2,857.12
Check	10/16/2020	EFT	PGE			182.04	3,039.16
Check	10/16/2020	EFT	PGE			338.01	3,377.17
Check	10/16/2020	EFT	PGE			341.51	3,718.68
Check	10/16/2020	EFT	PGE			423.75	4,142.43
Check	10/19/2020	EFT	PGE			123.77	4,266.20
Check	10/20/2020	EFT	PGE			411.64	4,677.84
Check	10/22/2020	EFT	PGE			535.57	5,213.41
Check	10/22/2020	EFT	PGE			129.82	5,343.23
Check	10/30/2020	EFT	Canby Utility	190236		101.53	5,444.76
Check	10/30/2020	EFT	PGE			301.37	5,746.13
Check	10/30/2020	EFT	PGE			338.80	6,084.93
Total 650-00 · Utilities						6,084.93	6,084.93
655-00 · Consultant Services							
Bill	10/06/2020	CIWD-...	Consistent Image Web Design			100.00	100.00
Bill	10/31/2020	20-10-30	Hartsock Project Mgmt.			4,570.46	4,670.46
Total 655-00 · Consultant Services						4,670.46	4,670.46
665-00 · Radio Maintenance Fees							
Bill	10/01/2020	INV01...	WCCCA			16,430.87	16,430.87
Bill	10/23/2020	INV01...	WCCCA			1,472.81	17,903.68
Bill	10/30/2020	INV65...	Day Wireless Systems Inc.			9,000.00	26,903.68
Total 665-00 · Radio Maintenance Fees						26,903.68	26,903.68
670-00 · Legal Services							
Bill	10/18/2020	12738	Northwest Local Government Legal ...			400.00	400.00
Total 670-00 · Legal Services						400.00	400.00

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Accrual Basis

Clackamas 800 Radio Group Profit & Loss Detail

October 2020

Type	Date	Num	Name	Memo	Class	Amount	Balance
675-00 · Financial Services							
Bill	10/02/2020	160410	Talbot, Korvola & Warwick, LLP			515.00	515.00
Check	10/31/2020			Service Charge		20.00	535.00
Total 675-00 · Financial Services						535.00	535.00
680-00 · Audit Fees							
Bill	10/01/2020	41139	Jarrard, Seibert, Pollard & Co. LLC			4,000.00	4,000.00
Total 680-00 · Audit Fees						4,000.00	4,000.00
703-00 · Capital Outlay							
703-01 · Buildings & Land Improvement							
703-011 · Land Improvement							
Bill	10/08/2020	16063-6	McKay Consulting		04 Wilsonville T...	2,530.00	2,530.00
Bill	10/17/2020	9326	Securasite LLC		16 Canby	30.16	2,560.16
Bill	10/17/2020	9327	Securasite LLC		16 Canby	481.25	3,041.41
Bill	10/17/2020	9325	Securasite LLC		04 Wilsonville T...	131.25	3,172.66
Bill	10/19/2020	9330	Securasite LLC		02 Skyland/Coo...	306.25	3,478.91
Bill	10/22/2020	9334	Securasite LLC		40 All	1,244.28	4,723.19
Bill	10/22/2020	9336	Securasite LLC		40 All	7,880.00	12,603.19
Bill	10/22/2020	9333	Securasite LLC		40 All	462.32	13,065.51
Bill	10/22/2020	9335	Securasite LLC		40 All	7,725.00	20,790.51
Bill	10/23/2020	9338	Securasite LLC		12 Crutcher Ben...	50.00	20,840.51
Bill	10/23/2020	9339	Securasite LLC		05 Mount Scott	212.50	21,053.01
Bill	10/31/2020	9342	Securasite LLC		05 Mount Scott	93.75	21,146.76
Bill	10/31/2020	18001...	Todd Hess Building Company		23 Goat Mountain	16,698.91	37,845.67
Bill	10/31/2020	18001...	Todd Hess Building Company		10 View Acres	2,772.10	40,617.77
Bill	10/31/2020	18001...	Todd Hess Building Company		08 Polivka	7,172.12	47,789.89
Total 703-011 · Land Improvement						47,789.89	47,789.89
703-012 · Building							
Bill	10/30/2020	INV65...	Day Wireless Systems Inc.		40 All	1,554.00	1,554.00
Total 703-012 · Building						1,554.00	1,554.00
Total 703-01 · Buildings & Land Improvement						49,343.89	49,343.89
703-02 · Radio Backbone							
703-021 · Simulcast / Master Site							
Bill	10/21/2020	108770	IES Commercial Inc.		26 CCOM	10,587.28	10,587.28
Bill	10/27/2020	00052...	APCO International Inc.		40 All	430.00	11,017.28
Bill	10/30/2020	00052...	APCO International Inc.		40 All	550.00	11,567.28
Bill	10/31/2020	18001...	Todd Hess Building Company		26 CCOM	3,256.20	14,823.48
Total 703-021 · Simulcast / Master Site						14,823.48	14,823.48
Total 703-02 · Radio Backbone						14,823.48	14,823.48
703-03 · Equipment							
703-031 · Security System							
Bill	10/01/2020	279992	Pamplin Media Group		40 All	164.68	164.68
Total 703-031 · Security System						164.68	164.68
703-032 · DC Power							
Bill	10/29/2020	INV65...	Day Wireless Systems Inc.		40 All	777.78	777.78
Total 703-032 · DC Power						777.78	777.78
703-034 · Microwave							
Bill	10/05/2020	SI-508...	Lile International Companies		40 All	540.00	540.00
Bill	10/29/2020	INV01...	WCCCA		40 All	5,467.20	6,007.20
Total 703-034 · Microwave						6,007.20	6,007.20
Total 703-03 · Equipment						6,949.66	6,949.66
Total 703-00 · Capital Outlay						71,117.03	71,117.03
Total Expense						130,078.69	130,078.69
Net Ordinary Income						783,570.49	783,570.49
Net Income						783,570.49	783,570.49

These financial statements have been prepared in a format prescribed by the entity and are not in accordance with accounting principles generally accepted in the United States of America. In addition, these statements omit the statement of cash flows and substantially all disclosures required by accounting principles generally accepted in the United States of America. These financial statements have not been subjected to an audit, review, or compilation engagement, and therefore no assurance is provided.

8:30 AM

11/11/20

Accrual Basis

Clackamas 800 Radio Group

Trial Balance

As of October 31, 2020

	Oct 31, 20	
	Debit	Credit
115-00 · Cash/Checking Account	1,851,004.12	
11000 · Accounts Receivable	366,300.88	
120-00 · Member Fees Receivable	0.00	
12000 · Undeposited Funds	0.00	
150-00 · Prepaid Expenses	0.00	
169-00 · CIP	44,120,952.67	
160-00 · Buildings and Towers	10,956,645.15	
165-00 · Radio Backbone	2,520,898.80	
166-00 · Equipment	1,052,983.00	
167-00 · Work In Progress	0.00	
175-00 · Accumulated Depreciation		11,582,838.71
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44	
201-00 · Accounts Payable		131,943.06
201-02 · Other Accounts Payable	0.00	
202-00 · Partner Prepayment	0.00	
250-00 · N/P - CCB (Microwave)	0.00	
210-00 · Reimb due Clackamas County	0.00	
300-01 · GLTDAG	0.00	
300-00 · Fund Balance	0.00	
310-00 · Investment in Fixed Assets		47,068,640.91
320-00 · Retained Earnings, Prior		7,296,037.32
405-00 · Members Contracts		66,220.00
410-00 · Partners Fees		1,069,108.20
430-00 · Subscriber Radio Payments		109,671.73
431-00 · Interest Income		45.59
435-00 · Lease Revenue		2,842.34
450-00 · Intergovernmental-Clackamas Co		4,182,051.98
605-00 · Site Rental	54,381.93	
610-00 · Fuel/Generators	4,493.81	
615-00 · HVAC Maintenance	4,152.00	
620-00 · Landscape Maintenance	13,560.00	
622-00 · Bad Debt Expense	19,350.00	
645-00 · Insurance	1,552.59	
650-00 · Utilities	22,809.12	
655-00 · Consultant Services	18,478.00	
660-00 · WCCCA System Fees	379,108.50	
665-00 · Radio Maintenance Fees	49,911.56	
670-00 · Legal Services	850.00	
675-00 · Financial Services	2,140.00	
680-00 · Audit Fees	4,500.00	
685-00 · Miscellaneous Expenses	0.20	
686-00 · Meeting Expenses	100.00	
703-011 · Land Improvement	4,018,580.62	
703-012 · Building	6,216.00	
703-014 · Generator	24,498.00	
703-021 · Simulcast / Master Site	33,897.43	
703-024 · Paging	51,845.82	
703-026 · Cat. 6 Fire Station Alerting	78,414.54	
703-031 · Security System	164.68	
703-032 · DC Power	777.78	
703-034 · Microwave	38,774.20	
TOTAL	71,509,399.84	71,509,399.84

Clackamas 800 Radio Group

Balance Sheet

As of October 31, 2020

	Oct 31, 20
ASSETS	
Current Assets	
Checking/Savings	
115-00 · Cash/Checking Account	1,851,004.12
Total Checking/Savings	1,851,004.12
Accounts Receivable	
11000 · Accounts Receivable	366,300.88
Total Accounts Receivable	366,300.88
Total Current Assets	2,217,305.00
Fixed Assets	
169-00 · CIP	44,120,952.67
160-00 · Buildings and Towers	10,956,645.15
165-00 · Radio Backbone	2,520,898.80
166-00 · Equipment	1,052,983.00
175-00 · Accumulated Depreciation	-11,582,838.71
Total Fixed Assets	47,068,640.91
Other Assets	
180-00 · Deferred O/F-P25 Maintenance	5,812,058.44
Total Other Assets	5,812,058.44
TOTAL ASSETS	55,098,004.35
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
201-00 · Accounts Payable	131,943.06
Total Accounts Payable	131,943.06
Total Current Liabilities	131,943.06
Total Liabilities	131,943.06
Equity	
310-00 · Investment in Fixed Assets	47,068,640.91
320-00 · Retained Earnings, Prior	7,296,037.32
Net Income	601,383.06
Total Equity	54,966,061.29
TOTAL LIABILITIES & EQUITY	55,098,004.35

8:31 AM
11/11/20

Clackamas 800 Radio Group
A/R Aging Detail
As of October 31, 2020

Type	Date	Num	Name	Due Date	Aging	Open Balance
Current						
Total Current						
1 - 30						
Invoice	10/13/2020	19-311	Clackamas County Community College	10/13/2020	18	5,262.34
Invoice	10/29/2020	19-313	Canby FD	10/29/2020	2	104,409.39
Total 1 - 30						109,671.73
31 - 60						
Total 31 - 60						
61 - 90						
Invoice	07/31/2020	19-268	Clackamas County FD #1	08/30/2020	62	149,210.00
Invoice	07/31/2020	19-269	Colton Fire	08/30/2020	62	16,770.00
Invoice	07/31/2020	19-270	Estacada RFD	08/30/2020	62	24,510.00
Invoice	07/31/2020	19-282	Sandy Fire	08/30/2020	62	28,380.00
Invoice	07/31/2020	19-292	Clackamas County - Transportation Eng	08/30/2020	62	12,900.00
Invoice	07/31/2020	19-296	Clackamas County Community College	08/30/2020	62	1,720.00
Total 61 - 90						233,490.00
> 90						
Invoice	07/31/2018	18-188	Boring Water	07/31/2018	823	860.00
Invoice	07/15/2019	19-221	Colton Fire	07/15/2019	474	16,770.00
Invoice	07/15/2019	19-240	Boring Water	07/15/2019	474	860.00
Invoice	01/20/2020	19-257	ODOT	01/20/2020	285	4,649.15
Total > 90						23,139.15
TOTAL						366,300.88

RADIO PROJECT STATUS

Emergency Communication System Upgrade

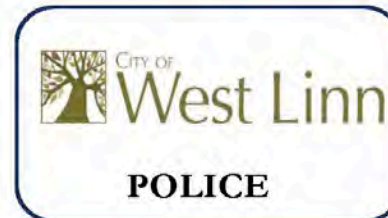
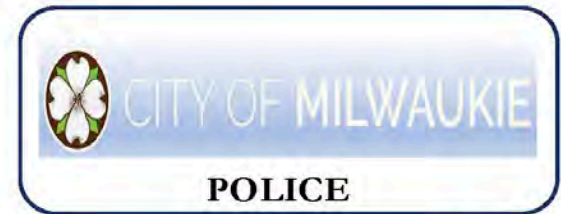
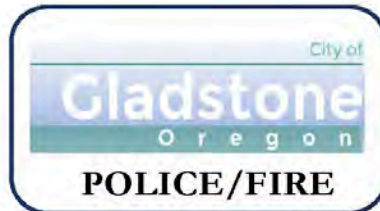
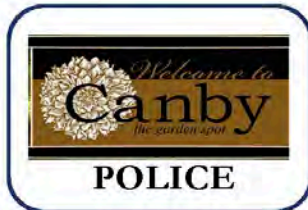
C800 Project Leader: John Hartsock

WCCCA Project Leader: Ron Polluconi

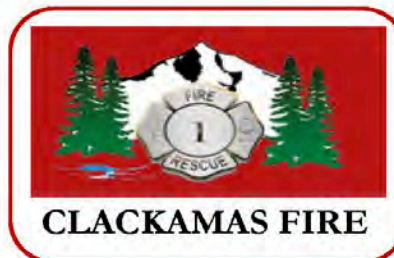
C800 Project Manager: Bjorn Morfin

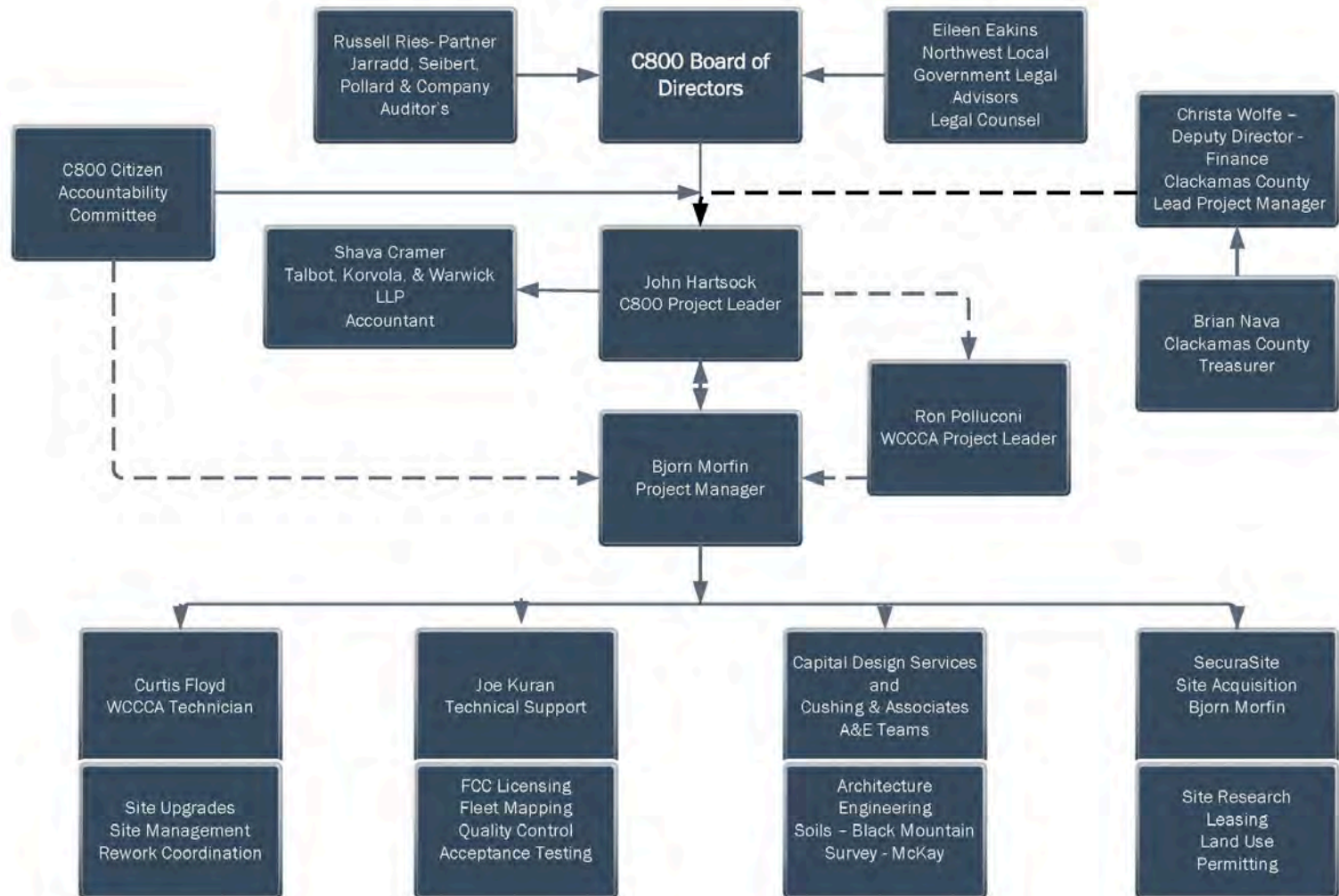
Date: November 18, 2020





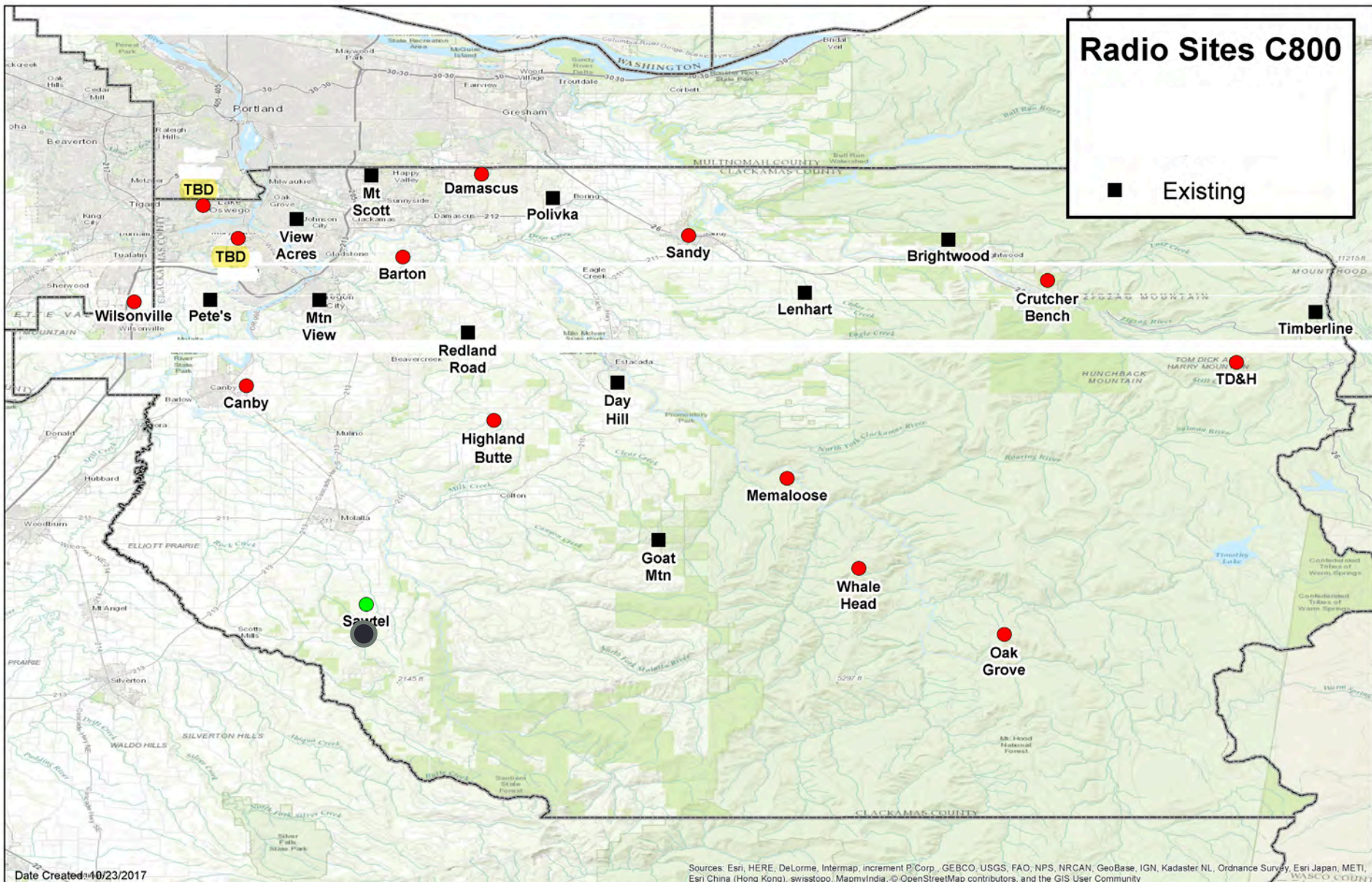
THE EIGHTEEN PUBLIC SAFETY AGENCIES THAT MAKE UP CLACKAMAS 800 RADIO GROUP





Clackamas 800 Radio Group Radio Replacement Project

C800 Site Locations



Project Status Existing Sites Summary

13 Existing Sites Design / Construction

- **Brightwood / Day Hill / Lenhart / Mt. Scott / Mt. View / Pete's / Polivka / Redland Rd / Sawtell / View Acres / Goat Mtn :** Complete
- **Timberline:** new generator and 1,000-gal fuel tank to be scheduled
- **CCOM:** New Uninterruptable Power System for Master Site Equipment / revisions to fire suppression system / new cable tray work complete. Replacement of consoles complete. Installation of dispatch floor ground ring to be completed by November 30, 2020
- **LOCOM:** New consoles when their new building is complete – February 2021

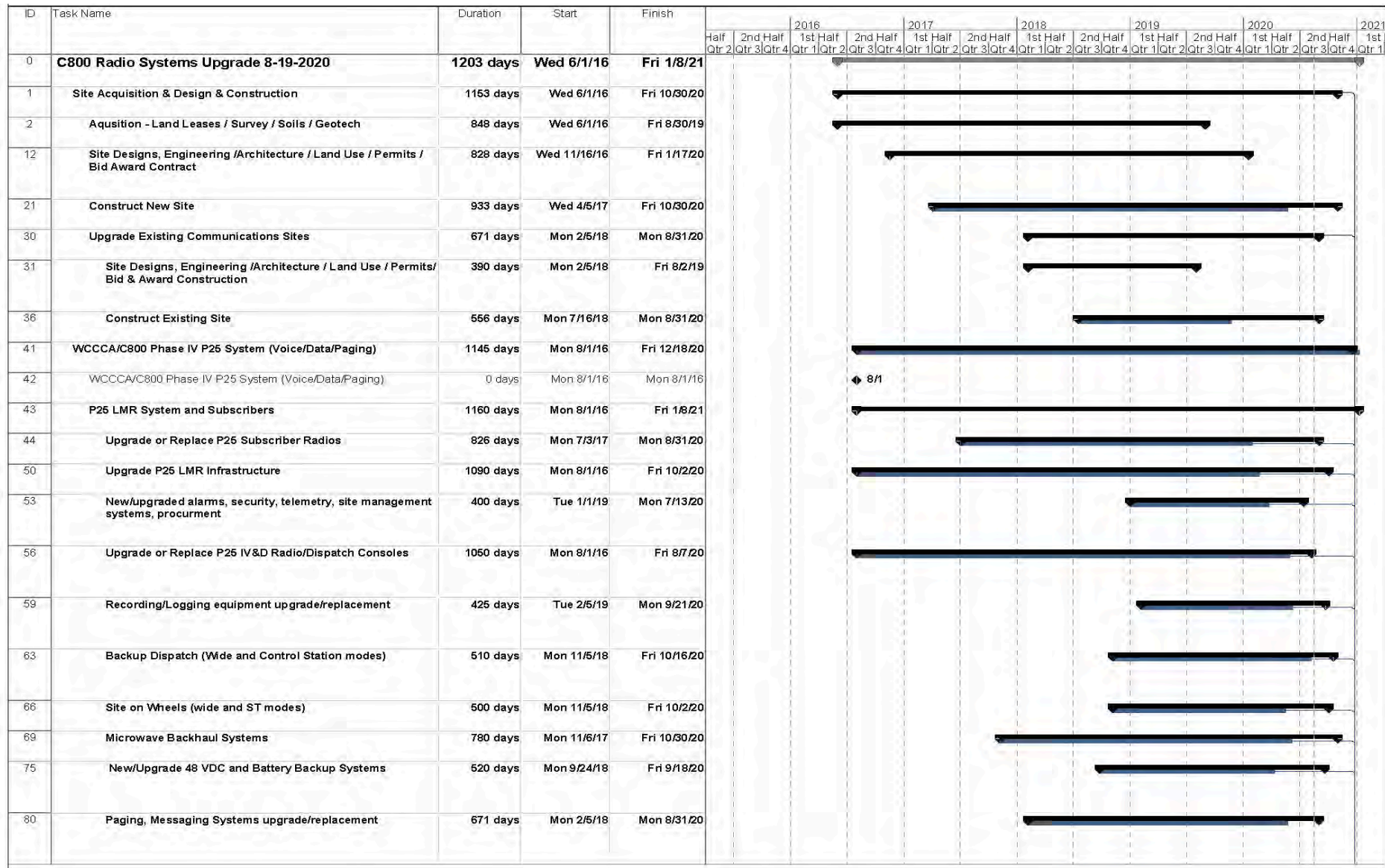
Project Status New Sites Summary

14 New Sites Acquisition / Design / Construction:

- **Barton / Canby / Crutcher Bench / Damascus / Highland Butte / Hoodland Fire / Sandy / Wilsonville**
: Complete.
- **Tom Dick & Harry / Memaloose / Whale Head / Oak Grove (USFS):**
Memaloose – Construction complete – turned over – possible fire damage
Whalehead – Construction 75% complete – turn over Spring 2021 due to fire and denied access.
Oak Grove – Construction 40% complete – turn over Spring 2021 due to fire and denied access.
TD&H - Awaiting USFS final approval / Ski Bowl easement complete / anticipate construction start Spring
- **Two Sites in Lake Oswego / West Linn area - for in-building coverage - on hold for more research and public meeting**



Project Schedule



Project Schedule

ID	Task Name	Duration	Start	Finish	2016		2017		2018		2019		2020		2021
					Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st
89	IP based Fire Station Alerting System	560 days	Mon 6/4/18	Fri 7/24/20	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
96	Video and Security systems	360 days	Mon 6/17/19	Fri 10/30/20											
103	Interoperable RF Systems and Links	680 days	Mon 6/4/18	Fri 1/8/21											
110															
112	System Operational January 8, 2021	0 days	Fri 1/8/21	Fri 1/8/21											1/8

- New Site Design & Construction complete: Spring 2021 for HWY 224 sites and Tom Dick & Harry – Spring 2021 / Lake Oswego - TBD
- Existing Sites Upgrade complete - October 2020
- System Operational Date: January 2021
- System Complete: June 2021

C800 Radio System Upgrade Budget ⁽¹⁾

Project: **C800 Radio System Upgrade**
 Date Original: 10/1/2015 Date Updated: **October 31, 2020**
 Project Manager: Bjorn Morfin

Item	Budget	Original Encumbrance	Additional Encumbrance / Change Order	Estimate to Complete	Percent Complete	Estimated Total	(Over) Under Budget	Expended
Soft Cost								
Site Acquisition Consulting - Quest	60,000	25,000	45,000	(2,930)	100.00%	67,070	(7,070)	67,069.81
Site Acquisition Consulting / Permits - Securacite	320,000	321,250	295,000	0	89.83%	616,250	(296,250)	553,571.13
Site Planning A&E - Cushing/Capital/Cundiff/Forensic/KPFF/DC/ToddHess	725,000	692,391	468,930	(220,000)	96.76%	941,321	(216,321)	910,820.70
Geotechnical / Environmental Consulting - Black Mtn	250,000	443,670	60,000	23,000	94.27%	526,670	(276,670)	496,515.22
Survey - McKay	75,000	129,835	25,000	0	75.87%	154,835	(79,835)	117,475.00
USFS Land Use Fees	15,000	10,000	40,000	5,000	89.94%	55,000	(40,000)	49,465.23
Land Use Fees	25,000	9,400	0	0	99.35%	9,400	15,600	9,339.00
Plan Check / Permit Cost	60,000	10,000	0	0	95.25%	10,000	50,000	9,525.20
Printing	2,500			500	0.00%	500	2,000	0.00
Bid Advertising	3,500	1,300	0	250	92.22%	1,550	1,950	1,429.43
Testing & Inspection (In Site Const)	40,000	2,700	0	0	97.18%	2,700	37,300	2,623.75
Project Management	300,000	384,000	250,000	80,000	88.52%	714,000	(414,000)	632,042.52
Legal Fees	30,000	21,000	0	5,000	80.92%	26,000	4,000	21,038.74
Licensing	20,000	69,000		5,000	93.10%	74,000	(54,000)	68,890.50
Miscellaneous	30,000	88,000	10,000	10,000	98.76%	108,000	(78,000)	106,665.38
Sub-Total Soft Cost	1,956,000	2,207,546	1,193,930	(94,180)	92.11%	3,307,296	(1,351,296)	3,046,472
Construction Cost								
Site Construction	8,895,000	12,596,753	3,000,000	2,500,000	91.14%	18,096,753	(9,201,753)	16,493,764.25
Buildings	1,350,000	2,018,663	0	(130,000)	95.08%	1,888,663	(538,663)	1,795,661.32
Towers	660,000	1,383,357	0	350,000	93.75%	1,733,357	(1,073,357)	1,625,083.31
Generator	500,000	513,196	150,000		99.42%	663,196	(163,196)	659,374.31
48VDC	1,065,000	1,443,767	0		87.91%	1,443,767	(378,767)	1,269,233.72
Lake Oswego Antenna	18,000	17,500	0	0	100.07%	17,500	500	17,511.75
Sub-Total Construction Cost	12,488,000	17,973,236	3,150,000	2,720,000	91.68%	23,843,236	(11,355,236)	21,860,628.66
Equipment Costs								
Simulcast Equipment	20,726,000	19,993,440	672,036		91.53%	20,665,476	60,524	18,915,273.79
Paging	373,000	269,228	50,000	75,000	93.04%	394,228	(21,228)	366,781.31
Subscriber Radios	5,000,000	9,409,958	295,032	(2,000,000)	43.74%	7,704,990	(2,704,990)	3,369,966.72
Asset Management	119,000	203,197		25,000	0.00%	228,197	(109,197)	0.00
Post Warranty / System Refresh	5,800,000	5,812,058		0	100.00%	5,812,058	(12,058)	5,812,058.44
Test Equipment	100,000			100,000	0.00%	100,000	0	0.00
11/12/2020 Microwave	3,368,000	2,671,467	600,000	75,000	89.88%	3,346,467	21,533	3,007,779.94

C800 Radio System Upgrade Budget ⁽²⁾

Project:	C800 Radio System Upgrade		
Date Original:	10/1/2015	Date Updated:	October 31, 2020
Project Manager:	Bjorn Morfin		

Item	Budget	Original Encumbrance	Additional Encumbrance / Change Order	Estimate to Complete	Percent Complete	Estimated Total	(Over) Under Budget	Expended
Security System	1,364,000			400,000	0.31%	400,000	964,000	1,244.64
Fire Station Alerting	0	1,697,407	(7,261)	25,000	95.40%	1,715,146	(1,715,146)	1,636,276.57
Subtotal Equipment Costs	36,850,000	40,056,755	1,609,807	(1,300,000)	82.02%	40,366,562	(3,516,562)	33,109,381
Bond Cost	300,000	290,372	33,200	0	99.99%	323,572	(23,572)	323,547
Subtotal Project Cost	51,594,000	60,527,908	5,986,937	1,325,820	86.00%	67,840,665	(16,246,665)	58,340,029
Additional Proceeds	7,084,900					(7,084,900)	7,084,900	
Adjusted Project Costs	58,678,900	60,527,908	5,986,937	1,325,820	86.00%	60,755,765	(9,161,765)	
Contingency	7,406,000			500,000	0.00%	500,000	6,906,000	
Total Project Cost	66,084,900	60,527,908	5,986,937	1,825,820	95.24%	61,255,765	(2,255,765)	58,340,028.81

Bond Proceeds	5,845,000	Taxable
	53,155,000	Non Taxable
	59,000,000	
Additional Proceeds	4,409,900	Subscriber Radio Payments
	2,675,000	PGE Payment
	7,084,900	
Total Proceeds	66,084,900	

Premium Bond Proceeds	7,165,794
Interest Income	1,000,000
Additional Funds	8,165,794
County oversight fees	(100,000)
Total Available	8,065,794

Q4 - 2020 Quarterly Outlook

	C800
<ul style="list-style-type: none">• Procurement	<ul style="list-style-type: none">• Bid and award security/CCTV system / existing tower antenna relocation
<ul style="list-style-type: none">• Leases & Land Use Applications	<ul style="list-style-type: none">• Lake Oswego in Building Sites
<ul style="list-style-type: none">• Site Construction	<ul style="list-style-type: none">• Whalehead / Oak Grove Butte / Goat Mt
<ul style="list-style-type: none">• Radio / Microwave	<ul style="list-style-type: none">• Continue radio infrastructure install• Continue microwave system install• Finalize subscriber radio distribution and existing radio upgrades

Project Goal:

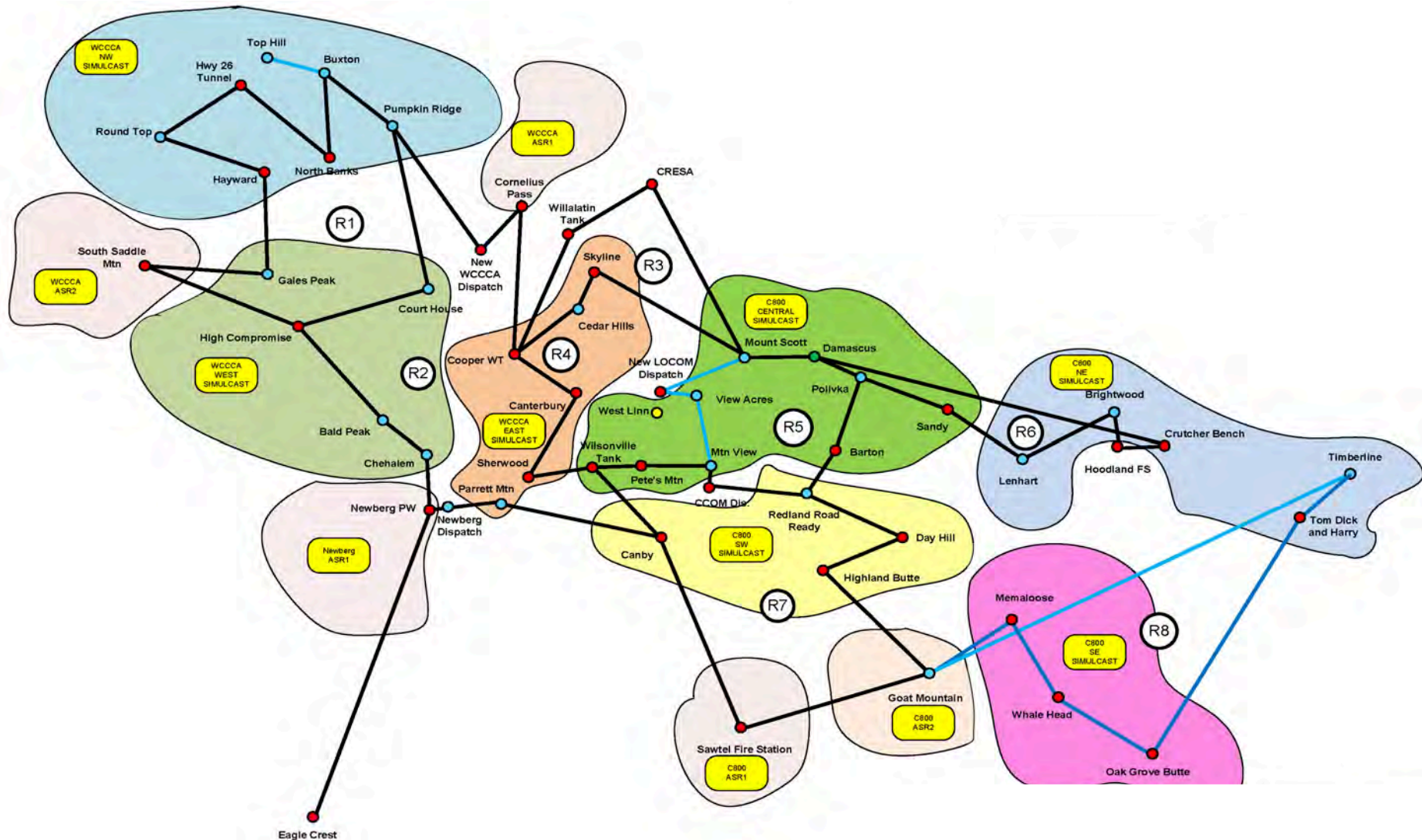
To create an efficient, dependable public safety radio communications system that works in all parts of Clackamas County!

**What's Happening With the
Communications Upgrade Project?**



Site Connectivity:

Loop Protected Microwave Backhaul / At least 2 connections to each site





11300 SE Fuller Rd
Milwaukie, Oregon 97222
(503) 780-4806
C800.ORG

Board of Directors Action Request

To: C800 Board of Directors
From: John Hartsock, Manager
Date: November 18, 2020
Re: Approve the Award of Contract for the Furnishing and Installation of a video security system.

REQUEST: It is hereby requested that the C800 Board of Directors authorize entering into a contract with _____ for the furnishing and installation of a video security system in the amount not to exceed \$400,000.00.

DESCRIPTION: As part of the Emergency Communications System Upgrade project there is a video security system as part of the design. This offers site awareness for monitoring the sites and a record of any intrusion. Our current sites have an analog video system which is beyond its useful life. The existing system has proven invaluable for monitoring the sites.

The new system includes a minimum of three digital video cameras at each site along with a digital video recorder system. The site recorder retains 30 days of video. There is a video management system at WCCCA and CCOM that then collects the video and retains it for an additional 90 days. There are also displays at CCOM to be able to monitor the site video.

On September 29, 2020 a request for proposal was issued for the work. Eleven proposal were received on October 27, 2020. An evaluation team will be finalizing their review and recommendation by November 17, 2020. The recommendation will be presented at the November 18, 2020 Board meeting for consideration.

FINANCE: The funds are budgeted in capital outlay as part of the Bond funding.

LEGAL: A C800 contract will be utilized as approved by legal counsel.

RECOMMENDATION: It is hereby recommended that the C800 Board of Directors authorize entering into a contract with _____ for the furnishing and installation of a video security system in the amount not to exceed \$400,000.00.



11300 SE Fuller Rd
Milwaukie, Oregon 97222
(503) 780-4806
C800.ORG

Board of Directors Action Request

To: C800 Board of Directors
From: John Hartsock, Manager
Date: November 18, 2020
Re: Approve a Contract Change Order to Motorola Solutions for conclusion of Design Review

REQUEST: It is hereby requested that the C800 Board of Directors approve issuing a contract change order in the amount of \$42,586.91 for contract adjustments as a result of finalizing the project Design Review.

DESCRIPTION: In September of 2017 the Board awarded a contract to Motorola Solutions based on a Request for Qualifications process in the amount of \$33,926,555.63. There have three change orders to date relating to the addition of subscriber radios for agencies bring the current contract amount to \$35,529,235.53. This Change Order will bring the contract total to \$35,571,824.44.

The Contract outlined that upon completion of the Design Review process a change order would be developed to describe the required changes based on the final system design. This was originally contemplated in late 2018. Many factors didn't allow the process to be completed until late this past summer.

The Motorola documentation is attached which outlines the pluses and minuses cost of the various elements that changed. This has been thoroughly reviewed by the WCCCA/C800 project team and we recommend approval.

FINANCE: The funds are budgeted in capital outlay as part of the Bond funding.

LEGAL: A C800 contract change order will be utilized as approved by legal counsel.

RECOMMENDATION: It is hereby recommended that the C800 Board of Directors approve issuing a contract change order in the amount of \$42,586.91 for contract adjustments as a result of finalizing the project Design Review.

Change Order No. 004

Date: November 9, 2020

Project Name: WCN (WCCCA/C800/Newberg) P25 Radio Project

Customer Name: WCN (WCCCA/C800/Newberg)

Customer Contacts: Ron Polluconi/John Hartsock/Mary Newell

The purpose of this Change Order is to:

This change order concludes the Design Review for the WCN project. The Change Order pricing summary is outlined in Appendix A. The overview of the Change Order is outlined in Appendix B. The Design Review documentation deliverables are outlined in Appendix C.

Contract No.	Communication System Agreement – August 31, 2017	Contract Date: September 21, 2017
---------------------	---	---

In accordance with the terms and conditions of the contract identified above between Washington County Consolidated Communications Agency, Clackamas 800 Radio Group (C800), and the City of Newberg and Motorola Solutions, Inc., the following changes are approved:

Contract Price Adjustments

Original Contract Value:	\$79,003,674.71
Previous Change Order amounts for Change Order numbers <u>000</u> through <u>003</u>	\$313,781.48
This Change Order #004	\$319,138.34
New Contract Value:	\$79,636,594.53

Completion Date Adjustments

Original Completion Date:	December 2019
Current Completion Date prior to this Change Order:	April 2021
New Completion Date:	December 2021

Changes in Equipment: (additions, deletions or modifications)

- The updated equipment BOMs can be found on the shared drive at: WCN > 06_Customer_Shared_Documents > *Final Design Documents.
<https://drive.google.com/drive/folders/1FLabPLNfEoooLQp0EDhQldfnMoBkRIBw>

Changes in Services: (additions, deletions or modifications)

- The updated SOW can be found on the shared drive at: WCN > 06_Customer_Shared_Documents > *Final Design Documents.
<https://drive.google.com/drive/folders/1FLabPLNfEoooLQp0EDhQldfnMoBkRIBw>

Schedule Changes: (describe change or N/A)

- The updated project schedule can be found on the shared drive at: WCN > 06_Customer_Shared_Documents > *Final Design Documents.
<https://drive.google.com/drive/folders/1FLabPLNfEoooLQp0EDhQldfnMoBkRIBw>

Pricing Changes: (describe change or N/A)

- The total price increase for Change Order #004 is \$319,138.34.

Customer Responsibilities: (describe change or N/A)

- N/A

Payment Schedule for this Change Order:
(describe new payment terms applicable to this change order)

- For this Change Order # 004 Payment Milestone #10 will be added:

Milestone	WCCA	C800	City of Newberg
1 – System %	\$3,557,019.02	\$2,907,934.65	\$158,744.06
1 – Performance Bond	\$430,417.91	\$324,051.10	\$17,707.76
1 – Maintenance	\$5,768,033.68	\$5,812,058.44	\$414,428.57
2 - 10% of System Price Due Upon Design Review Acceptance	\$3,557,019.02	\$2,907,934.65	\$158,744.06
3 - 40% of System Price due upon shipment of equipment to Customer	\$14,228,076.07	\$11,631,738.60	\$634,976.23
4 - 20% of System Price due upon installation equipment	\$7,114,038.03	\$5,815,869.30	\$317,488.12
5 - 15% of System Price due upon System Acceptance	\$5,335,528.53	\$4,361,901.98	\$238,116.09
6 - 5% of System Price due upon Final Acceptance	\$1,778,509.51	\$1,453,967.33	\$79,372.03
System Price	\$41,768,641.75	\$35,215,456.05	\$2,019,576.91
Contingency (per Customer)	\$0	\$0	\$0



7 - 100% of Change Order #1 due upon shipment of equipment to Customer		\$279,541.00	
8 - 100% of Change Order #2 due upon shipment of equipment to Customer		\$15,491.11	
9 - 100% of Change Order #3 due upon shipment of equipment to Customer		\$18,749.37	
10 - 100% of Change Order #4 due upon execution of Change Order #4	\$276,551.43	\$42,586.91	\$0.00
Contract Price (per Customer)	\$42,045,193.18	\$35,571,824.44	\$2,019,576.91
Contract Price (total)	\$79,636,594.53		

Unless amended above, all other terms and conditions of the Contract shall remain in full force. If there are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

**Washington County
Consolidated Communications
Agency (WCCCA)**

By: _____
Printed _____
Name: _____
Title: _____
Date: _____

**Clackamas 800
Radio Group (C800)**

By: _____
Printed _____
Name: _____
Title: _____
Date: _____

**City of Newberg
(Newberg)**

By: _____
Printed _____
Name: _____
Title: _____
Date: _____

**Motorola Solutions,
Inc.**

By: _____
Printed _____
Name: _____
Title: _____
Date: _____

Reviewed by: John M
Motorola Solutions Project Manager

Date: November 9, 2020

Appendix A - Change Order Pricing Summary

Item #	Description	WCCCA	C800	Newberg	Total	Discounted Equipment + SI
	ASTRO Infrastructure Changes (Items 1-16a)					\$583,130.80
1	Changed from MCC7500/MCC7100 to MCC7500E	0.00	0.00	0.00	0.00	
2	SOW Dispatch Console Removal	-124,612.12	-123,688.88		-248,301.00	
3	Added ASTRO Equipment (Routers/Switches/SDMs) for five (5) MW Only Sites - CRESA, Wilallatin Tank, Hoodland FS, Eagle Crest, Cooper	56,932.88	56,932.88	0.00	113,865.75	
4	Added Transition Dispatch Site	30,655.20	30,655.20	0.00	61,310.40	
5	CSUB Difference - WCCCA	135,164.25	0.00	0.00	135,164.25	
6	Removed Burntwood Equipment	-196,835.50			-196,835.50	
7	CSUB Difference - C800		-47,865.75		-47,865.75	
8	Added 1 channel to WCCCA Cell C Simulcast (7 sites) due to Capacity Analysis	299,350.00			299,350.00	
9	VHF UHF Combiner System Difference	241,616.61	26,846.29	0.00	268,462.90	
10	Raven Modules/RF Coaxial Switches	29,499.29	20,448.71	0.00	49,948.00	
11	Added MPLS Routers for 6 sites - 5 microwave only sites + transition dispatch site	45,745.88	45,745.88	0.00	91,491.75	
12	Remove Info Vista	-107,408.60	-73,071.20	-9,020.20	-189,500.00	
13	Added Northbound Interface due to switch to Genesis MOM	9,210.50	6,266.00	773.50	16,250.00	
14	UEM SNMP Tool Kits Removal due to switch to Genesis MOM	-45,344.00	-30,848.00	-3,808.00	-80,000.00	
15	Microwave Map Segment Removal due to switch to Genesis MOM	-5,101.20	-3,470.40	-428.40	-9,000.00	



16	Additional Services: MPLS Redesigns/Rework RF Coverage Rework Extended Design Review Site Install Upscope Cost Schedule Impact	132,442.18	149,238.68	781.50	282,462.36	
16a	Additional Schedule Impact for current schedule not covered in line 16 Site Install Upscope not covered in line 16	16,991.57	18,554.57	781.50	36,327.64	
17	Removed Genesis Equipment & Software Ops Bridge MOM Solution, Genwatch UEM, MCM, Systems Integration. No SUA	0.00	0.00	0.00	0.00	\$0.00
17a	MSI System Integrations Support for MOM/MCM to NBI & MOM to MPLS	13,360.29	9,089.14	1,122.00	23,571.43	\$23,571.43
18	Removed NICE Logging Recorder, Systems Integration. No SUA	0.00	0.00		0.00	\$0.00
19	Logging Recorder Placeholder Credit	-187,536.80	-187,536.80		-375,073.60	-\$375,073.60
20	Critical Connect, Wave On Cloud, 10 Year Subscription, 500 Users	725,504.00	493,568.00	60,928.00	1,280,000.00	\$1,280,000.00
21	Remove Wave 5000, 500 Users, 10 Year SUA	-685,969.70	-466,672.40	-57,607.90	-1,210,250.00	-\$1,210,250.00
22	Subscriber Placeholder Credit	-404,654.96	-685,698.30		-1,090,353.26	-\$1,090,353.26
23	Subscriber Orders Against Placeholder	106,410.29	598,948.13		705,358.42	\$705,358.42
	Sub-Total	85,420.04	-162,558.26	-6,478.00	-83,616.22	-\$83,616.22
	System Discount	-21,355.01	40,639.56	1,582.00	20,866.55	\$20,866.55
	Sub-Total	64,065.03	-121,918.69	-4,896.00	-62,749.66	-\$62,749.66
24	Add Critical Connect 390 Users, 10 Year Subscription (WCCCA - 217, C800 - 168, Newberg - 5)	249,984.00	193,536.00	5,760.00	449,280.00	\$449,280.00
	Critical Connect Volume Discount	-37,497.60	-29,030.40	-864.00	-67,392.00	-67,392.00
	Sub-Total	212,486.40	164,505.60	4,896.00	381,888.00	\$381,888.00
	Total	276,551.43	42,586.91	0.00	319,138.34	\$319,138.34

Appendix B – Change Order Overview

Item #	Change Order Item	Description
1	Changed from MCC7500/MCC7100 to MCC7500E	The dispatch console configurations were changed from the MCC7500/MCC7100 to the MCC7500E.
2	SOW Dispatch Console Removal	Console radios were removed from the design as they were not required.
3	Added ASTRO Equipment (Routers/Switches/SDMs) for five (5) MW Only Sites - CRESA, Wilallatin Tank, Hoodland FS, Eagle Crest, Cooper	ASTRO radio equipment was added for the five microwave only sites. This equipment includes Motorola site routers, switches and SDM's.
4	Added Transition Dispatch Site	The Transition Dispatch site was added to allow for flexibility with dispatch center moves. This site is configured with 4 - 24 Port switches in a stacked configuration, 1 - 8 port CCGW, 1 CAM and 2 Site Routers (redundant configuration). There are no console positions included.
5	CSUB Difference - WCCCA	This item represents the Conventional Subsystem changes with respect to channel count and sites.
6	Removed Burntwood Equipment	The Burntwood RF equipment was removed due to site changes.
7	CSUB Difference - C800	This item represents the Conventional Subsystem changes with respect to channel count and sites.
8	Added 1 channel to WCCCA Cell C Simulcast (7 sites) due to Capacity Analysis	An additional RF channel (equipment) was added to the WCCCA Simulcast Cell C due to the results from the capacity analysis.
9	VHF UHF Combiner System Difference	This item represents the updated combiner system design for the Conventional Subsystems with respect to channel count and sites.
10	Raven Modules/RF Coaxial Switches	Qty 8 raven modules were added to consolidate the amateur/interop channels into single resources. Qty 16 RF coaxial switches were added to the receive side of the VHF and UHF conventional combiner systems for testing capability.
11	Added MPLS Routers for 6 sites - 5 microwave only sites + transition dispatch site	Juniper MPLS routers were added for six sites; the 5 microwave only sites and the transition dispatch site.
12	Remove Info Vista	The Info Vista feature was removed due to change in requirements.
13	Added Northbound Interface due to switch to Genesis MOM	The Northbound interface (feature) was added for interfacing to the Genesis MOM (provided by WCN).
14	UEM SNMP Tool Kits Removal due to switch to Genesis MOM	The UEM SNMP tool kits were removed due to requirement changes which resulted from the switch to the Genesis MOM.
15	Microwave Map Segment Removal due to switch to Genesis MOM	The Microwave Map segment option was removed due to requirement changes which resulted from the switch to the Genesis MOM.



16	Additional Services: MPLS Redesigns/Rework RF Coverage Rework Extended Design Review Site Install Upscope Cost Schedule Impact	Additional services added as a result of changes in design, installation and schedule.
16a	Additional Schedule Impact for current schedule not covered in line 16 Site Install Upscope not covered in line 16	Additional service added as result of additional changes in schedule.
17	Removed Genesis Equipment & Software Ops Bridge MOM Solution, Genwatch UEM, MCM, Systems Integration. No SUA	The Genesis MOM solution was initially going to be added to Change Order 004, but WCN has decided to procure this solution outside of the Motorola contract.
17a	MSI System Integrations Support for MOM/MCM to NBI & MOM to MPLS	The Genesis MOM solution was initially going to be added to Change Order 004, but WCN has decided to procure this solution outside of the Motorola contract.
18	Removed NICE Logging Recorder, Systems Integration. No SUA	The Nice IP logging solution was initially going to be added to Change Order 004, but WCN has decided to procure another solution outside of the Motorola contract.
19	Logging Recorder Placeholder Credit	The contract placeholder credit for the logging recorder will be removed as a credit in Change Order 004.
20	Critical Connect, Wave On Cloud, 10 Year Subscription, 500 Users	The Critical Connect solutions is replacing the WAVE 5000 solution.
21	Remove Wave 5000, 500 Users, 10 Year SUA	The Wave 5000 solution is being removed and replaced by the Critical Connect Solution.
22	Subscriber Placeholder Credit	The contract placeholder credit will be removed as a credit in Change Order 004.
23	Subscriber Orders Against Placeholder	These subscriber orders represent "added" user/agency subscriber requirements. These orders were place against the subscriber placeholder credit.
24	Add Critical Connect 390 Users, 10 Year Subscription (WCCCA - 217, C800 - 168, Newberg - 5)	WCN is adding additional users for the Critical Connect Solution.

Appendix C - Design Review Documentation Deliverables

Final Documents can be found on the shared drive at: WCN > 06_Customer_Shared_Documents > *Final Design Documents

Design Review Documentation Deliverables	
Item #	Description
1	System Drawings
	SYSTEM BLOCK DIAGRAM
2	Master & DSR Site Drawings
	SITE BLOCK DIAGRAM
	EQUIPMENT ROOM FLOOR PLAN/CABLE TRAY LAYOUT
	EQUIPMENT RACK ELEVATION
	BILL OF MATERIALS
3	RF Site Drawings
	SITE BLOCK DIAGRAM
	EQUIPMENT ROOM FLOOR PLAN/CABLE TRAY LAYOUT
	EQUIPMENT RACK ELEVATION
	TOWER ELEVATION/ANTENNA PLACEMENT (will use WCN's dwgs)
	ANTENNA INTERCONNECT DIAGRAM
	BILL OF MATERIALS
4	Dispatch Site Drawings
	SITE BLOCK DIAGRAM
	EQUIPMENT ROOM FLOOR PLAN/CABLE TRAY LAYOUT
	EQUIPMENT RACK ELEVATION
	TOWER ELEVATION/ANTENNA PLACEMENT (will use WCN's dwgs)
	ANTENNA INTERCONNECT DIAGRAM
	BILL OF MATERIALS
	CCGW CONNECTION DETAIL
5	Coverage Maps
	Trunked
	Conventional
6	Capacity Analysis Output
7	Updated System Description
8	Updated Statement of Work
9	MPLS Backhaul Bandwidth Summary & Design Document
10	Jail/DAS Design Document
11	Power Requirements Document
12	Frequency Plan
13	Factory Acceptance Test Plan Document
14	Field Acceptance Test Plan Document
15	Trunked (Voice) Coverage Acceptance Test Plan
16	IP Plans

	ASTRO System
	CEN
	Backhaul
17	High Level Cutover Plan
18	Updated Project Schedule
19	Subscriber Deliverables - Mobile Install Guide - Subscriber Inventory Sheet
20	Design Review Change Order