MERC Commission Meeting

November 5, 2014 12:30 pm

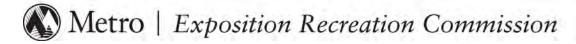
Oregon Convention Center 777 NE Martin Luther King Jr. Blvd. Room A107/108







600 NE Grand Ave. Portland, OR 97232 503-797-1780



Agenda

Meeting: Metro Exposition Recreation Commission Meeting

Date: Wednesday, November 5, 2014

Time: 12:30 – 2:00 p.m.

Place: Oregon Convention Center, Rooms A107/A108

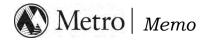
CALL T	O ORDER		
12:30	1.	QUORUM CONFIRMED	
12:35	2.	OPPORTUNITY FOR PUBLIC COMMENT ON NON-AGENDA ITEMS	
12:40	3.	COMMISSION/COUNCIL LIAISON COMMUNICATIONS	Terry Goldman
12:45	4. 4.1 4.2	METRO DEPUTY COO COMMUNICATIONS Financial Report Aramark Quarterly Report	Scott Robinson
12:55	5.	MINORITY, WOMAN, EMERGING SMALL BUSINESS AND FIRST OPPORTUNITY TARGET AREA REPORT	Gabriele Schuster
1:15	6.	PROPOSED CHANGES TO MERC CONTRACTING AND PURCHASING RULES	Gabriele Schuster
1:25	7.	ACTION AGENDA	
	7.1	Resolution 14-27 For the purpose of selecting HydroTemp Mechanical, Inc. for the Keller Auditorium – "Cooling Tower Replacement" and authorizing the Deputy Chief Operating Officer of Metro to execute a contract with HydroTemp Mechanical.	Josh Lipscomb
	7.2	Resolution 14-28 For the purpose of selecting Convergint Technologies, LLC., for the Oregon Convention Center – "Integrated Electronic Security Upgrade" and authorizing the Deputy Chief Operating Officer of Metro to execute a contract with Convergint Technologies, LLC.	Scott Cruickshank

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MERC Commission Meeting

November 5, 2014 12:30 pm

4.1 Financial Report



Date: November 5, 2014

To: Commissioner Terry Goldman, Chair

Commissioner Cynthia Haruyama, Vice Chair

Commissioner Judie Hammerstad, Secretary-Treasurer

Commissioner Karis Stoudamire-Phillips

Commissioner Chris Erickson Commissioner Elisa Dozono Commissioner Ray Leary

From: Ben Rowe – MERC Finance Manager

Re: MERC Financial Information September and first Quarter Fiscal Year 2014

MERC Venues Events & Attendance

Total MERC Venue events and performances are 11% (12) above the three-year historical September average; however attendance was 5% lower. The first quarter, when compared to the three-year historical average first quarter, closed with 5% (14), and 14% (35,467) more events and attendance respectively.

	2013			2014	Change from Prior Year		
Total MERC Venues	Events	Attendance	Events	Attendance	Events	Attendance	
July	70	56,719	79	111,423	9, 13%	54,704, 96%	
August	55	29,649	73	62,846	18, 33%	33,197, 112%	
September	100	103,628	117	106,410	17, 11%	2,782, (-5%)	
1st Quarter	225	189,996	269	280,679	44, 20%	90,683, 48%	

MERC Venues Revenues & Expense

Total MERC Venue year to date revenues are 42.2%, (\$2.9 million) above 2013, 29% (\$2.2 million) above the three-year historical year to date average, and 6% below budget projections. This is most notably due to the TLT payment received in September 2014 that was not received until October in the previous year. Additionally both OCC and P5 event related revenues performed over 50% higher over the prior year to date. Total MERC Venue year to date expenses are 6% (\$600,000) above 2013, 5.2% (\$535,000) above the three-year historical average, and 4% below budget projections.

Food & Beverage

The total MERC Venue food and beverage margin for September is 31%, 24% above September 2013. The year to date food & beverage margin is 26%, 10% higher than the prior year to date, and 8% higher than the three-year historical YTD average.

Net Operations

Total MERC YTD net operations are negative \$900,000, 73% greater than 2013 and 65% (\$1.6 million) greater than the three-year historical YTD average.

Note

Indirect costs, across the Metro agency were recalibrated for fiscal year 2015. The MERC Venues received a larger portion of allocated costs in FY 2015 than in previous years. Martha Bennett agreed to provide a 66% subsidy of the increased amount from 2014 to 2015 (and a 33% subsidy of the same amount in FY 2016) to OCC & Expo in the form of a revenue transfer from the General Fund. (Portland'5 increased only 2.8% year over year and did not receive a subsidy) In the attached reports, the increased indirect cost allocation expense transfers are occurring each month as planned; however the General Fund subsidy revenue transfers for OCC and Expo have not occurred yet. This dynamic adversely affects the venue's net operations when compared to historical years.

Historical Actual Comparison FY 2012-2014 to FY 2015

Fiscal Year:	2012	2013	2014	2015	2012-14	% Diff.	% Diff.
Revenues	1 st Qtr.	1 st Qtr.	1 st Qtr.	1 st Qtr.	Average	Average	2014
Food & Beverage	3,485,903	3,324,382	3,606,315	3,962,339	3,472,200	14%	10%
Charges for Services	3,842,160	3,730,553	3,326,806	4,745,793	3,633,173	31%	43%
Lodging Tax	914,292	576,196	-	1,120,046	496,829	125%	N/A
Other	71,176	63,930	39,788	88,075	58,298	51%	121%
Total Revenue	8,313,530	7,695,062	6,972,909	9,916,253	7,660,500	29%	42%
Expenses							
Food & Beverage	2,755,234	2,710,636	3,034,314	2,926,216	2,833,394	3%	-4%
Personnel Services	4,286,836	3,998,434	3,850,278	4,179,376	4,045,182	3%	9%
Materials & Services	2,428,672	2,333,598	2,415,077	2,707,131	2,392,449	13%	12%
Other	885,226	970,102	981,634	1,001,788	945,654	6%	2%
Total Expense	10,355,967	10,012,770	10,281,302	10,814,512	10,216,680	5.9%	5.2%
Net Operations	(2,042,437)	(2,317,708)	(3,308,393)	(898,260)	(2,556,179)	65%	73%
Food & Beverage Margin	21%	18%	16%	26%	18%	8%	10%

Oregon Convention Center

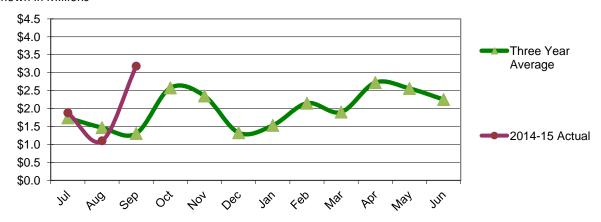
There were 7 more events at OCC in September 2014 than September 2013 with 5,000 (12%) more attendees than the prior year. OCC first quarter events and attendance are on par with the three-year historical first quarter average. OCC September revenues are more than double that of the prior year and the three-year historical September average, and 6% under budget. OCC year to date revenues are 40% above the prior year. The \$2.1 million dramatic increase in revenues OCC experienced in the month of September over the prior year was due in large part to hosting five large conferences grossing over \$150,000 each, and receiving an earlier than usual \$984,408 TLT payment from the County. OCC September expenses are 17% more than the prior year, however only 2% above the three-year historical September average, and 4% under budget. OCC YTD expenses are 1% less than the prior year. OCC food and beverage margins are 28% year to date.

Highest Grossing Events

Event	Gross Revenue	% of September Revenue
Viewpoint User Conference 2014	\$353,533	16%
FOSS4G PDX Conference 2014	269,839	12%
Geothermal Resources Council Annual Meeting	225,898	10%
Association of Pediatric Hematology /Oncology Nurses Annual	199,710	9%
All other Events	1,200,050	53%
Total	\$2,249,029	100%

OCC Program Revenues by Month

Shown in Millions



OCC Program Expense by Month

Shown in Millions



Portland'5 Centers for the Arts

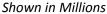
There were 12 more events, however 1,300 (-3%) less attendees, at the Portland'5 Centers for the Arts in September 2014 compared to the prior year. Portland'5 events and attendance are 21% above and 11% below respectively the three-year historical September average. First quarter Portland'5 events and attendance are -7% below and 24% above respectively compared to the three-year historical first quarter average. Portland'5 September revenues are 38% over the prior year and 21% above the three-year historical September average. Year to date revenues are over 54% above the prior year thanks in large part to *The Book of Mormon* production, an early TLT payment. Year to date revenues are 4% below budget projections. September expenses are 1% below the prior year and 1% below the three-year historical September average. Year to date expenses are 14% above the prior year and 1% below budget. Portland'5 food and beverage margin is 32% year to date.

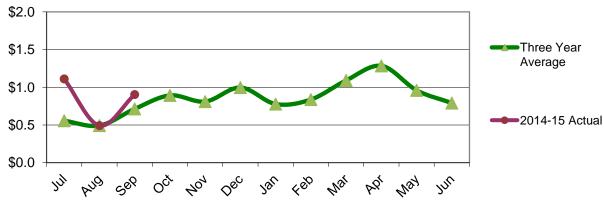
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Highest Grossing Events

		% of September
Event	Gross Revenue	Revenue
Crosby Stills and Nash	\$55,863	7%
Australian Pink Floyd	50,590	6%
Neil DeGrasse Tyson	50,461	6%
Kinky Boots	49,323	6%
All other Events	579,167	74%
Total	\$785,404	100%

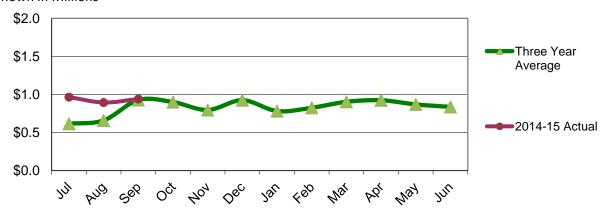
P5CA Program Revenue by Month





P5CA Program Expense by Month

Shown in Millions



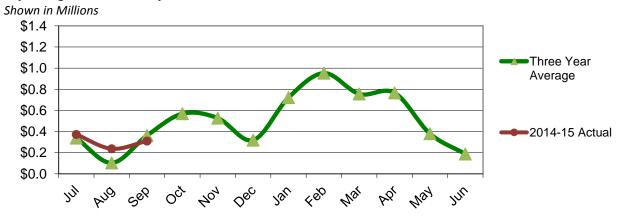
Portland Expo Center

There were 2 less events and 884 less attendees at Expo in September than the prior year, 27% and 14% below the three-year historical September average respectively. Events and attendance are 16% below and 13% above the three-year historical average first quarter. September revenues are 24% below the prior year, however only 17% below the three-year historical September average. Expo's year to date revenues are 5% above the prior year and 11% below budget. Expo's year to date expenses are 22% above the prior year and 8% below budget projections. Specific projects funded by MTOCA like the new awnings installed over several event Hall entry ways were associated with these increased expenses. Expo's year to date food & beverage margin is negative due to two main items; a subcontractor payout in August for the *Vans Warped Tour* event in June (FY 2014) and an audit adjustment.

Highest Grossing Events

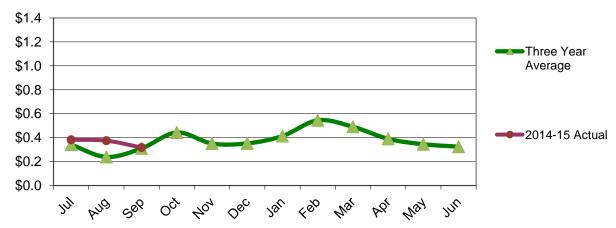
Event	Gross Revenue	% of September Revenue
Portland Fall RV & Van Show	\$114,427	36%
Northwest Quilting Expo	65,656	21%
Rose City Gun & Knife Show	30,744	10%
Just Between Friends Children's Consignment Sale	27,557	9%
All other Events	77,334	24%
Total	\$315,719	100%

Expo Program Revenue by Month



Expo Program Expense by Month

Shown in Millions



MERC Statement of Activity with Annual Budget Metropolitan Exposition-Recreation Commission

All Departments

September 2014

	Current Month Actual	Prior Year Month Actual	Current Year to Date	Prior Year to Date Actual	Current Year Budget	% of Prior Year	% of Annual
			Actual				Budget
<u>Operations</u>							
Charges for Services	1,799,442	1,409,199	4,745,793	3,326,806	21,098,321	142.65%	22.49%
414500 Government Contributions	-	-	-	-	831,905	0.00%	0.00%
Contributions from Governments	-	-	-	-	831,905	0.00%	0.00%
Enhanced Marketing VDF	-	-	-	-	463,702	0.00%	0.00%
Food and Beverage Revenue	1,564,775	905,309	3,962,339	3,606,315	15,202,929	109.87%	26.06%
Interest Earnings	11,072	(38,290)	61,290	24,922	57,750	245.93%	106.13%
Interfund Loans	-	-	-	-	-	0.00%	0.00%
Lodging Tax	1,120,046	-	1,120,046	-	11,131,163	0.00%	10.06%
Miscellaneous Revenue	7,433	10,986	26,785	14,866	84,542	180.18%	31.68%
<u>Transfers-R</u>	-	-	-	-	1,137,263	0.00%	0.00%
Visitor Development Fund Alloc		-	-	-	1,931,633	0.00%	0.00%
<u>Total Revenues</u>	4,502,768	2,287,205	9,916,253	6,972,909	51,939,208	142.21%	19.09%
Capital Outlay	-	-	-	-	25,000	0.00%	0.00%
Food & Beverage Services	1,084,551	846,504	2,926,216	3,034,314	12,871,802	96.44%	22.73%
Materials and Services	946,524	1,001,523	2,707,131	2,415,077	13,425,476	112.09%	20.16%
Personnel Services	1,448,349	1,354,149	4,179,376	3,850,278	18,432,052	108.55%	22.67%
<u>Transfers-E</u>	294,300	240,495	1,001,788	981,634	5,680,018	102.05%	17.64%
Visitor Development Marketing	-	-	-	-	463,702	0.00%	0.00%
Total Expenditures	3,773,725	3,442,671	10,814,512	10,281,302	50,898,050	105.19%	21.25%
Net Operations	729,043	(1,155,467)	(898,260)	(3,308,393)	1,041,158		
<u>Capital</u>							
Contributions from Private Sources	-	-	-	-	-	0.00%	0.00%
<u>Grants</u>	-	-	-	-	70,000	0.00%	0.00%
<u>Transfers-R</u>		-	-	-	-	0.00%	0.00%
<u>Total Revenues</u>	-	-	-	-	70,000	0.00%	0.00%
Capital Outlay	465,561	622,302	2,023,747	1,392,667	7,219,300	145.31%	28.03%
Total Expenditures	465,561	622,302	2,023,747	1,392,667	7,219,300	145.31%	28.03%
Net Capital	(465,561)	(622,302)	(2,023,747)	(1,392,667)	(7,149,300)		
12 Month Fund Balance Increase	263,482	(1,777,769)	(2,922,006)	(4,701,060)	(6,108,142)		

MERC Statement of Activity with Annual Budget Metropolitan Exposition-Recreation Commission Convention Center Operating Fund

September 2014

	Current	Prior Year	Current Year	Prior Year to	Current Year	% of Prior	% of
	Month Actual	Month	to Date	Date Actual	Budget	Year to	Annual
		Actual	Actuals			Date	Budget
<u>Operations</u>							
Charges for Services	919,143	540,351	2,322,399	1,543,325	9,446,977	150.5%	24.6%
Enhanced Marketing VDF	-	-	-	-	463,702	0.0%	0.0%
Food and Beverage Revenue	1,332,899	622,849	3,014,543	3,002,572	11,002,827	100.4%	27.4%
Interest Earnings	4,608	(18,618)	22,119	9,459	14,500	233.8%	152.5%
Interfund Loans	-	-	-	-	-	0.0%	0.0%
Lodging Tax	984,408	-	984,408	-	9,803,384	0.0%	10.0%
Miscellaneous Revenue	946	2,527	3,540	3,864	11,000	91.6%	32.2%
<u>Transfers-R</u>	(58,987)	(107,011)	(176,960)	(160,516)	93,756	110.2%	-188.7%
<u>Visitor Development Fund Alloc</u>		-	-	-	1,281,250	0.0%	0.0%
<u>Total Revenues</u>	3,183,017	1,040,098	6,170,050	4,398,703	32,117,396	140.3%	19.2%
Food & Beverage Services	855,651	556,785	2,159,862	2,437,969	9,363,294	88.6%	23.1%
Materials and Services	596,363	642,864	1,593,375	1,553,542	8,527,570	102.6%	18.7%
Personnel Services	754,433	705,122	2,240,243	2,115,730	9,969,814	105.9%	22.5%
<u>Transfers-E</u>	181,007	140,879	622,346	560,455	2,698,655	111.0%	23.1%
Visitor Development Marketing		-	-	-	463,702	0.0%	0.0%
<u>Total Expenditures</u>	2,387,455	2,045,650	6,615,826	6,667,695	31,023,035	99.2%	21.3%
Net Operations	795,562	(1,005,552)	(445,776)	(2,268,992)	1,094,361		
Capital	, 55,502	(1,000,001,	(1.15),,,,,,	(2)200,332,	2,03 1,002		
Grants	_	_	_	-	60,000	0.0%	0.0%
Transfers-R	360,000	_	360,000	615,000	360,000	58.5%	100.0%
Total Revenues	360,000	-	360,000	615,000	420,000	58.5%	85.7%
Capital Outlay	16,751	266,233	1,172,319	829,083	4,258,000	141.4%	27.5%
Total Expenditures	16,751	266,233	1,172,319	829,083	4,258,000	141.4%	27.5%
Net Capital	343,249	(266,233)	(812,319)	(214,083)	(3,838,000)		
12 Month Fund Balance Increase	1,138,811	(1,271,785)	(1,258,095)	(2,483,075)	(2,743,639)		

MERC Statement of Activity with Annual Budget Metropolitan Exposition-Recreation Commission Portland'5 Centers for the Arts Fund September 2014

September 2014		Current	Prior Year	Current Year	Prior Year to	Current Year	% of Prior	% of
		Month Actual	Month	to Date	Date Actual	Budget	Year to	Annual
			Actual	Actuals		_	Date	Budget
Operations								
Charges for Services		626,711	553,134	1,730,003	1,124,370	7,454,065	153.9%	23.2%
Contributions from Governments		-	-	-	-	831,905	0.0%	0.0%
Food and Beverage Revenue		167,374	168,644	699,501	366,797	2,225,102	190.7%	31.4%
Interest Earnings		4,594	(9,361)	28,958	10,191	31,000	284.2%	93.4%
Lodging Tax		135,638	-	135,638	-	1,327,779	0.0%	10.2%
Miscellaneous Revenue		5,195	7,803	20,196	10,340	51,302	195.3%	39.4%
<u>Transfers-R</u>		(35,701)	(64,767)	(107,103)	(97,151)	(428,413)	110.2%	25.0%
Visitor Development Fund Alloc		_	_	-	-	650,383	0.0%	0.0%
	Total Revenues	903,811	655,453	2,507,191	1,414,547	12,143,123	177.2%	20.6%
Food & Beverage Services		141,877	188,980	472,603	369,699	1,857,227	127.8%	25.4%
Materials and Services		250,165	221,858	750,192	539,101	2,948,738	139.2%	25.4%
Personnel Services		476,225	457,363	1,336,789	1,201,130	5,996,451	111.3%	22.3%
<u>Transfers-E</u>		71,871	77,365	238,894	327,748	1,318,646	72.9%	18.1%
<u>T</u>	otal Expenditures	940,138	945,566	2,798,478	2,437,677	12,121,062	114.8%	23.1%
	Net Operations	(36,327)	(290,113)	(291,286)	(1,023,130)	22,061		
<u>Capital</u>								
Contributions from Private Sources		-	-	-	-	-	0.0%	0.0%
	Total Revenues	-	-	-	-	-	0.0%	0.0%
Capital Outlay	,	131,166	174,758	508,482	233,789	1,938,000	217.5%	26.2%
<u>T</u> .	otal Expenditures	131,166	174,758	508,482	233,789	1,938,000	217.5%	26.2%
	Net Capital	(131,166)	(174,758)	(508,482)	(233,789)	(1,938,000)		
12 Month Fur	nd Balance Increase	(167,493)	(464,871)	(799,768)	(1,256,919)	(1,915,939)		

MERC Statement of Activity with Annual Budget Metropolitan Exposition-Recreation Commission Expo Fund September 2014

		Current	Prior Year	Current Year	Prior Year to	Current Year	% of Prior	% of
		Month Actual	Month	to Date	Date Actual	Budget	Year to	Annual
			Actual	Actuals			Date	Budget
Operations								
Charges for Services		253,588	315,715	693,369	659,111	4,197,279	105.2%	16.5%
Food and Beverage Revenue	<u>!</u>	64,502	113,816	248,294	236,946	1,975,000	104.8%	12.6%
Interest Earnings		919	(5,718)	5,462	3,863	8,500	141.4%	64.3%
Miscellaneous Revenue		1,292	656	3,049	662	22,240	460.7%	13.7%
Transfers-R		(10,278)	(18,646)	(30,834)	(27,969)	212,330	110.2%	-14.5%
	Total Revenues	310,023	405,822	919,340	872,613	6,415,349	105.4%	14.3%
Capital Outlay		-	-	-	-	25,000	0.0%	0.0%
Food & Beverage Services		87,023	100,739	293,752	226,646	1,651,281	129.6%	17.8%
Materials and Services		79,629	81,449	279,683	247,348	1,459,762	113.1%	19.2%
Personnel Services		151,548	121,186	402,827	349,927	1,721,145	115.1%	23.4%
<u>Transfers-E</u>		41,422	22,251	140,548	93,431	1,639,717	150.4%	8.6%
	Total Expenditures	359,622	325,625	1,116,810	917,351	6,496,905	121.7%	17.2%
	Net Operations	(49,599)	80,197	(197,470)	(44,738)	(81,556)		
<u>Capital</u>								
<u>Grants</u>		-	-	-	-	10,000	0.0%	0.0%
Transfers-R		360,000	-	360,000	165,000	360,000	218.2%	100.0%
	Total Revenues	360,000	-	360,000	165,000	370,000	218.2%	97.3%
Capital Outlay		317,644	181,311	342,945	329,794	930,500	104.0%	36.9%
	Total Expenditures	317,644	181,311	342,945	329,794	930,500	104.0%	36.9%
	<u>Net Capital</u>	42,356	(181,311)	17,055	(164,794)	(560,500)		
12 Mo	nth Fund Balance Increase	(7,243)	(101,114)	(180,415)	(209,532)	(642,056)		

MERC Statement of Activity with Annual Budget Metropolitan Exposition-Recreation Commission MERC Admin Sub Fund September 2014

		Current	Prior Year	Current Year	Prior Year to	Current Year	% of Prior	% of
		Month Actual	Month	to Date	Date Actual	Budget	Year to	Annual
			Actual	Actuals			Date	Budget
Operations								
Charges for Services	<u> </u>	-	-	22	-	-	0.0%	0.0%
Interest Earnings		951	(4,593)	4,752	1,409	3,750	337.2%	126.7%
Transfers-R		104,966	190,424	314,897	285,636	1,259,590	110.2%	25.0%
	Total Revenues	105,917	185,831	319,671	287,045	1,263,340	111.4%	25.3%
Materials and Service	<u>ces</u>	20,367	55,352	83,881	75,087	489,406	111.7%	17.1%
Personnel Services		66,143	70,477	199,518	183,492	744,642	108.7%	26.8%
Transfers-E			-	-	-	23,000	0.0%	0.0%
	<u>Total Expenditures</u>	86,509	125,829	283,399	258,579	1,257,048	109.6%	22.5%
	Not Operations	10 407	60,001	36,272	28,466	6,292		
Canital	Net Operations	19,407	60,001	30,272	20,400	0,292		
Capital Transfore B		(720,000)		(720,000)	(780,000)	(720,000)	02.20/	100.0%
<u>Transfers-R</u>	Total Payanuas							100.0%
Conital Outland	<u>Total Revenues</u>	(720,000)	-	(720,000)	(780,000)	(720,000)		
Capital Outlay	Total Evnanditures				-	92,800		0.0%
	<u>Total Expenditures</u>	-	-	-	-	92,800	0.0%	0.0%
	Net Capital	(720,000)	-	(720,000)	(780,000)	(812,800)		
	12 Month Fund Balance Increase	(700,593)	60,001	(683,728)	(751,534)	(806,508)		

MERC Food and Beverage Margins

September 2014

	Current Month Actual	Current Year to Date	Prior Year to Date Actual	Annual Budget
Convention Center Operating Fund	Actual	Date	Date Actual	Aimai baaget
Food and Beverage Revenue	1,332,899	3,014,543	3,002,572	11,002,827
Food & Beverage Services	855,651	2,159,862	2,437,969	9,363,294
Food and Beverage Gross Margin	477,248	854,682	564,603	1,639,533
Food and Beverage Gross Margin %	35.81%	28.35%	18.80%	14.90%
Portland'5 Centers for the Arts Fund				
Food and Beverage Revenue	167,374	699,501	366,797	2,225,102
Food & Beverage Services	141,877	472,603	369,699	1,857,227
Food and Beverage Gross Margin	25,497	226,899	(2,902)	367,875
Food and Beverage Gross Margin %	15.23%	32.44%	-0.79%	16.53%
Expo Fund				
Food and Beverage Revenue	64,502	248,294	236,946	1,975,000
Food & Beverage Services	87,023	293,752	226,646	1,651,281
Food and Beverage Gross Margin	(22,521)	(45,458)	10,301	323,719
Food and Beverage Gross Margin %	-34.92%	-18.31%	4.35%	16.39%
MERC Fund Total				
Food and Beverage Revenue	1,564,775	3,962,339	3,606,315	15,202,929
Food & Beverage Services	1,084,551	2,926,216	3,034,314	12,871,802
Food and Beverage Gross Margin	480,224	1,036,123	572,001	2,331,127
Food and Beverage Gross Margin %	30.69%	26.15%	15.86%	15.33%

Page 1 of 1 Report Date: 10/23/2014

MERC Visitor Venues

Events-Performances-Attendance FY 2013-14

	Septemb	er 2013	September 2014		Net Change from Prior Year		September 2014	
осс	Events	Attendance	Events	Attendance	Events	Attendance	Revenue	% of Rev.
Tradeshows/Conventions	7	6,435	8	9,039	1	2,604	1,371,416	61%
Consumer Public Shows	4	24,163	2	25,832	(2)	1,669	244,265	11%
Miscellaneous					-	-		0%
Miscellaneous -In-House	10	141	18	257	8	116	149,836	7%
Meetings	14	3,665	15	3,858	1	193	186,765	8%
Catering	8	2,409	7	2,859	(1)	450	296,747	13%
Totals	43	36,813	50	41,845	7	5,032	\$ 2,249,029	100%

	Septemb	September 2013		September 2014		Net Change from Prior Yea		September 2014	
Expo Center	Events	Attendance	Events	Attendance	Events	Attendance	Revenue	% of Rev.	
Consumer Public Shows	6	19,402	7	21,208	1	1,806	287,599	91%	
Cirque Du Soleil	-	-	-	-	-	-		0%	
Miscellaneous	2	2,050	-	=	(2)	(2,050)	26,218	8%	
Meetings	2	45	2	30	-	(15)	844	0%	
Catering	-	-	-	=	-	-		0%	
Tradeshows/Conventions	2	675	1	50	(1)	(625)	1,057	0%	
Totals	12	22,172	10	21,288	(2)	(884)	\$ 315,718	100%	
Totals w/Cirque du Soleil	12	22,172	10	21,288	(2)	(884)	\$ 315,718	100%	

	Septemb	er 2013	Septemb	September 2014		om Prior Year	September 2014	
Portland '5	Performances	erformances Attendance Perfo		Attendance	Performances	Attendance	lance Revenue 9	
Commercial (Non-Broadway)	10	9,337	23	22,980	13	13,643	517,195	66%
Broadway	8	16,152	-	-	(8)	(16,152)		0%
Resident Company	9	15,538	9	15,903	-	365	1,809	0%
Student	-	-	-	=	-	-		0%
Non-Profit	12	3,062	23	4,234	11	1,172	236,672	30%
Miscellaneous	6	554	2	160	(4)	(394)	29,728	4%
Totals	45	44,643	57	43,277	12	(1,366)	\$ 785,404	100%

MERC Visitor Venues

Events-Performances-Attendance FY 2014-15

	1st Quar	ter 14-15	Net Change from Prior Year			
осс	Events	Attendance	Events	Attendance	Events	Attendance
Tradeshows/Conventions	16	23,195	16	30,243	-	7,048
Consumer Public Shows	13	29,138	16	39,183	3	10,045
Miscellaneous	-	-	-	-	-	-
Miscellaneous -In-House	25	504	36	628	11	124
Meetings	22	9,141	22	6,218	-	(2,923)
Catering	10	6,486	9	7,468	(1)	982
Totals	86	68,464	99	83,740	13	15,276

	1st Quar	ter 13-14	1st Quar	ter 14-15	Net Change from Prior Year		
Expo Center	Events	Attendance	Events	Attendance	Events	Attendance	
Consumer Public Shows	11	40,127	13	44,960	2	4,833	
Cirque Du Soleil	-	-	-	-	-	-	
Miscellaneous	6	2,260	12	10,479	6	8,219	
Meetings	5	105	4	75	(1)	(30)	
Catering	-	-	1	52	1	52	
Tradeshows/Conventions	3	3,739	1	50	(2)	(3,689)	
Totals	25	46,231	31	55,616	6	9,385	
Totals w/Cirque du Soleil	25	46,231	31	55,616	6	9,385	

	1st Quart	ter 13-14	1st Quar	ter 14-15	Net Change from Prior Year		
PCPA	Performances	Attendance	Performances	Attendance	Performances	Attendance	
Commercial (Non-Broadway)	30	26,249	42	62,686	12	36,437	
Broadway	8	16,152	17	46,603	9	30,451	
Resident Company	9	15,538	10	17,453	1	1,915	
Student	28	4,050	26	3,136	(2)	(914)	
Non-Profit	23	9,086	33	6,953	10	(2,133)	
Miscellaneous	16	4,226	11	4,492	(5)	266	
Totals	114	75,301	139	141,323	25	66,022	

MERC Statement of Fund Balances and Reserves

September 2014

September 2014		FY 2015	FY 2014	FY 2014	FY 2015
		Through	Through	Through	Annual
		September	September	June	Budget
Oregon Convention Center	<u>r</u>	44.760.675	4.4.4.5.722	44 445 722	46 655 722
Beginning Fund Balance		14,769,675	14,415,732	14,415,732	16,655,732
Fund Balance Inc (Dec)	Ending Fund Balance	(1,271,785) 13,497,890	(2,843,075) 11,572,657	353,943 14,769,675	(2,743,639) 13,912,093
	Eliuling Fullu Balance	13,437,630	11,372,037	14,709,075	13,912,093
Contingency - Operating					1,630,000
Contingency - New Capital-	Business Strategy				1,099,078
Contingency - Renewal & R	eplacement				11,183,015
	Ending Fund Balance				13,912,093
Portland'5 Centers for the	Arts				
Beginning Fund Balance	//////	9,837,693	9,020,155	9,020,155	10,226,656
Fund Balance Inc (Dec)		(799,768)	(1,256,919)	817,538	(1,915,939)
, ,	Ending Fund Balance	9,037,925	7,763,236	9,837,693	8,310,717
Contingency - Operating					600,000
Contingency - New Capital-	Business Strategy				1,857,050
Contingency - Renewal & R					5,853,667
	Ending Fund Balance				8,310,717
<u>Expo</u>					
Beginning Fund Balance		3,367,235	3,935,352	3,935,352	4,399,853
Fund Balance Inc (Dec)	5 l' 5 lo l	(180,415)	(209,532)	(568,117)	(642,056)
	Ending Fund Balance	3,186,820	3,725,820	3,367,235	3,757,797
Contingency - Operating					350,000
Contingency - New Capital-	Business Strategy				2,596,016
Contingency - Renewal & R	eplacement				811,781
	Ending Fund Balance				3,757,797
MERC Administration					
Beginning Fund Balance		4,085,354	3,043,123	3,043,123	3,043,124
Fund Balance Inc (Dec)		(683,728)	(751,534)	1,042,231	(806,508)
	Ending Fund Balance	3,401,626	2,291,589	4,085,354	2,236,616
Contingency - Operating					65,000
Contingency - Renewal & R	eplacement				2,171,616
	Ending Fund Balance				2,236,616
MERC Fund					
Beginning Fund Balance		32,059,957	30,414,362	30,414,362	34,325,365
Fund Balance Inc (Dec)	Fueling Freed Delegate	(2,935,695)	(5,061,059)	1,645,594	(6,108,142)
	Ending Fund Balance	29,124,262	25,353,303	32,059,956	28,217,223

MERC Commission Meeting

November 5, 2014 12:30 pm

> 4.2 Aramark First Quarter Report



1st Quarter Review - 2015

Oregon Convention Center Portland' 5 Centers for the Arts Portland Expo Center

October 21, 2014

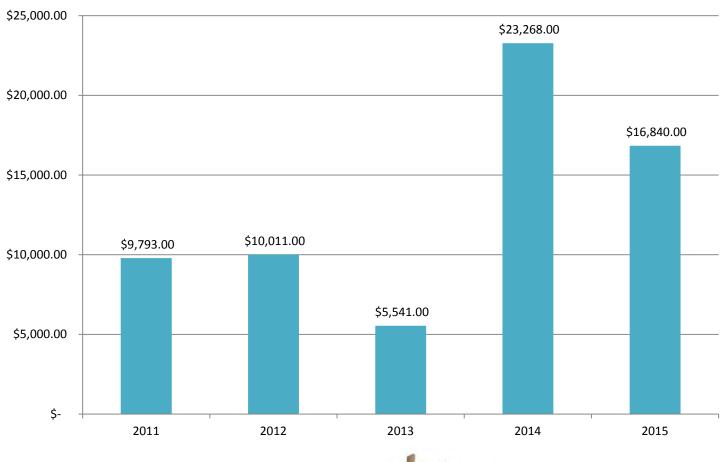


Oregon Convention Center

	2015 - 1st Quarter			201	4 - 1st Quarter		2015 Budget		
Net Gross Receipts	\$	3,014,543.00		\$	3,002,572.00		\$	11,002,827.00	
Cost of Sales	\$	506,111.00	20.9%	\$	645,468.00	25.9%	\$	2,309,164.00	25.4%
Labor	\$	1,273,048.00	42.2%	\$	1,390,892.00	46.3%	\$	3,825,143.00	34.8%
Margin	\$	854,682.00	28.4%	\$	564,503.00	18.8%	\$	1,639,533.00	14.9%



Stir Bistro – 1st Quarter 2015







2015 OCC 1st Quarter Highlights

- Conventions (Top 5)
 - OSCON \$661K
 - Viewpoint \$295K
 - Stormcon \$218K
 - FOSSAG \$182K
 - IAVM \$163K
- Retail Foods
 - RCCC \$89K
 - * Up \$22K vs. 2013
- Transferred Labor Savings = \$2660



2015 OCC 1st Quarter Narrative

Aramark at OCC had a strong first quarter in 2015 attaining \$3,014,543 in revenues and a margin of \$854,682 (28.4%). Our margin is an increase of \$290,079 (9.6%) vs. prior year with only \$12K in additional revenues. We had 9 events that generated over \$100k in revenues, with OSCON coming in the highest at \$661K in July. We saw significant dips in Cost of Sales (5.0%) and Labor (4.1%) vs. PY due to the strong convention business this quarter. September was the strongest month with \$1,332,899 in revenues and helped us return a margin of \$477,248 (35.8%). Overall, this is a very strong start to the fiscal year.

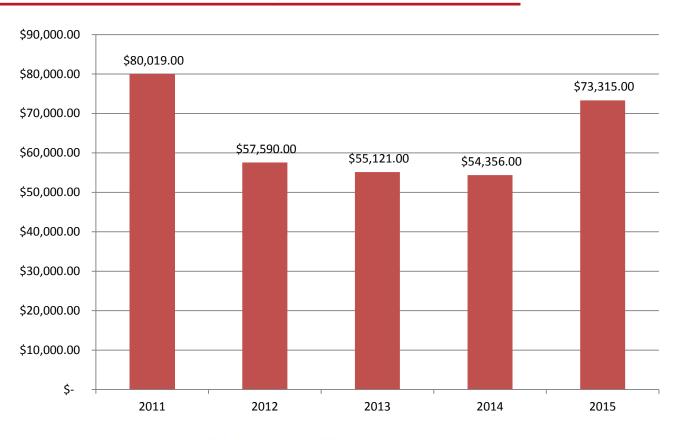


Portland'5 Centers for the Arts

	2015 -	1st Quarter		2014 - 1	st Quarter		2015 Budget		
Net Gross Receipts	\$	699,501.00		\$	366,797.00		\$	2,225,102.00	
Cost of Sales	\$	118,486.00	18.3%	\$	76,258.00	23.2%	\$	445,850.00	20.8%
Labor	\$	248,533.00	35.5%	\$	232,539.00	63.4%	\$	1,023,331.00	46.0%
Margin	\$	226,899.00	32.4%	\$	(2,902.00)	-0.8%	\$	367,875.00	16.5%



ArtBar Bistro – 1st Quarter 2015







2015 P5 1st Quarter Highlights

- Music on Main
 - 2014: \$35k, percap \$9.34
 - Totals after 9 years: \$245k revenue, 31000 attendees
- Book of Mormon-2 weeks, 16 performances
 - \$226k revenue (10.16% of full FY 2015 budget)
 - 46149 attendees
 - Percap spending \$4.91
- Top concerts of the quarter
 - Counting Crows \$22k, percap \$9.91
 - Trey Anastasio \$18k, percap \$9.69
- IAVM Closing Reception: \$85k in catering
- Transferred Labor Savings = \$430



2015 P5 1st Quarter Narrative

 F&B revenues for the first quarter of FY 2015 exceeded expectations on strong sales for Book of Mormon (\$226k) and Music on Main series (\$35k), as well as strong sales for concerts including Steely Dan, Nick Cave, Counting Crows, Crosby Stills & Nash, and others; collectively the concert activity totaled \$116k. With total revenues of \$699.5k, we have achieved 191% of PY revenues (\$366.8k) and with a 32.4% return to MERC of \$226.9k, we have achieved 1,114% of PY return (-\$20.3k). At the close of the quarter, F&B revenues are at 31% of the full annual budget from what is historically the weakest quarter of the year.



Portland Expo Center

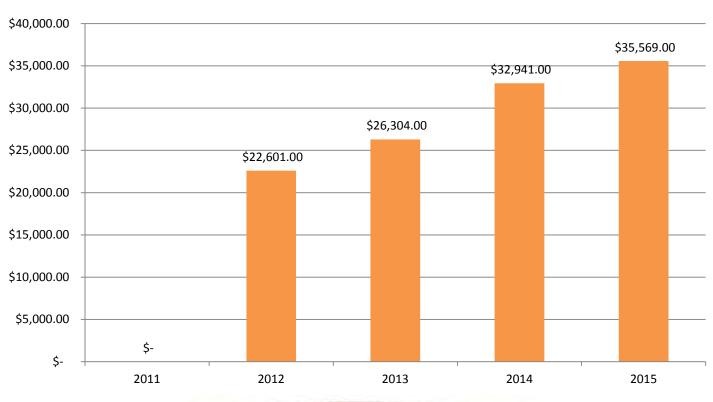
	2015 - 1st Quarter			2014	1 - 1st Quarter		2		
Net Gross Reciepts	\$	248,294.00		\$	236,946.00		\$	1,975,000.00	
Cost of Sales	\$	68,553.00	32.2%	\$	60,097.00	29.9%	\$	394,803.00	24.1%
Labor	\$	120,940.00	48.7%	\$	136,070.00	57.4%	\$	627,794.00	31.8%
Margin	\$	(45,458.00)	-18.3%	\$	10,301.00	4.3%	\$	323,719.00	16.4%

^{*}Margin Difference vs. 2014

- •\$40K Subcontractor Payout
- •\$20K Reserve Purchases
- •\$13K Audit Credit



West Delta Bar & Grill – 1st Quarter 2015







2015 Expo 1st Quarter Highlights

- Upgraded POS
 - -Stand A
 - -Stand C
 - –Portables
- August Catering up 280% vs. PY
- Transferred Labor Savings = \$3197



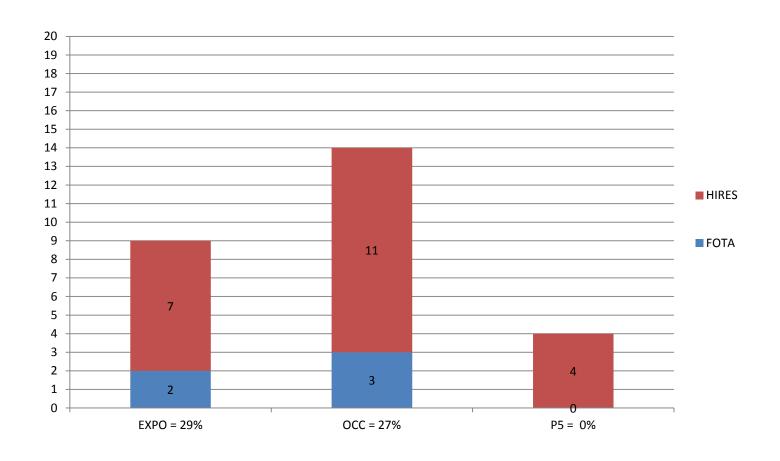
2015 Expo 1st Quarter Narrative

Expo Food & Beverage revenues for the first quarter came in at \$248,294, an increase in revenues of \$11k vs. prior year. The month of August we were able to increase catering revenues to \$22,406 vs. \$5,898 prior year, which is a 208% increase. Our labor expense is down \$15,130 (8.7%) vs. PY. Overall, we do have a lower margin of \$55,759 (22.6%) vs. PY. There are 3 contributing factors to the margin difference at Expo; (1) \$22K Subcontractor Payout Expense from the June Warped Tour that hit in July (2) \$20K Additional Reserve Expenditures (3) \$13K Audit Accrual Credit. The quarter is historically our slowest quarter of the year, but overall we're on track with PY and Budget.



FOTA







FOTA -Hiring

Joint Venture

- All Job Postings sent to JV Partners to source Candidates
- Partnership with Observer NewspaperMark Washington
- •Job Fair January 2015



Audits

- DM Audit August 6, 2014
- METRO Audits November 2014
- Monthly ARAMARK Audits



ARAMARK

- RVP Visit September 19, 2014
- Qualitative Goals 2015
- 2014 Global Client Survey October 21
- Catering Price Increases December 1
- Expo/P5 Union Contracts Expire December 2104
 - Negotiations starting in November
- OCC Open Positions
 - Chef de Cuisine Background Pending
 - Banquet Manager Background Pending
 - Bar Supervisor Posted/Interviewing

MERC Commission Meeting

November 5, 2014 12:30 pm

 Minority, Women, Emerging Small Business and First
 Opportunity Target Area Report





MAKING A GREAT PLACE

Clean air and clean water do not stop at city limits or county lines. Neither does the need for jobs, a thriving economy, and sustainable transportation and living choices for people and businesses in the region. Voters have asked Metro to help with the challenges and opportunities that affect the 25 cities and three counties in the Portland metropolitan area.

A regional approach simply makes sense when it comes to providing services, operating venues and making decisions about how the region grows. Metro works with communities to support a resilient economy, keep nature close by and respond to a changing climate.

Together we're making a great place, now and for generations to come.

METRO COUNCIL PRESIDENT

Tom Hughes

METRO COUNCILORS

Shirley Craddick, District 1
Carlotta Collette, District 2
Craig Dirksen, District 3
Kathryn Harrington, District 4
Sam Chase, District 5
Bob Stacey, District 6

AUDITOR

Suzanne Flynn



Why Does **Diversity** in Contracting Matter?



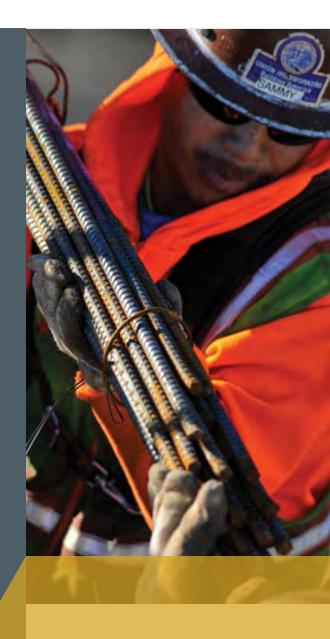
Diversity in contracting is a critical component to the success of Metro's mission to plan for the region's future and ensure that it remains a great place to live. Each year, Metro spends millions of dollars on contracts that support our efforts to provide public services for nearly 1.5 million people in Clackamas, Multnomah, and Washington counties. By actively involving minority business enterprises, woman owned business enterprises, and emerging small businesses (MWESB) in that pool of business opportunities, the agency can help expand economic opportunities in the region.

Metro's procurement department has made several changes in the last year to improve our approach to increase access and participation of MWESB firms in the procurement process. These changes include enacting internal processes and procedures that resulted from the Procurement Enhancement Project (PEP), making greater use of the Oregon Procurement Information Network (ORPIN), and updating the way Metro calculates MWESB involvement in projects.

While procedural changes are important, real progress is dependent upon the attitudes and actions of Metro leadership and staff. Over the last year, more project managers have been involved in outreach to MWESB firms and the agency has improved lines of communications with minority business organizations and the firms seeking to do business with Metro.

We've seen success in directed outreach to MWESB firms for projects like Condors of the Columbia at the Oregon Zoo, where we pushed MWESB participation to over 25%. Individual project results may vary, but this project shows that staff involvement does make a difference. Metro is committed to expanding upon these efforts and continuing to build partnerships with MWESB firms.

As required by Metro Code 2.04, this report includes the program activities, utilization rates, findings and recommendations of Metro's MWESB program. The reporting period covers July 1, 2013, through June 30, 2014.



"Recognize yourself in he and she who are not like you and me."

- Carlos Fuentes

Responding to the MWESB Audit

In response to the FY 2012-2013 MWESB report, Metro's auditor took a close look at the agency's efforts to increase access and participation of MWESB firms in the procurement process. The auditor made several suggestions for ways the agency could strengthen the procurement program.

Since the audit was published, Metro has implemented new procedures and partnerships to improve engagement with MWESB firms. These changes are called out and explained in detail in this report. They include a new method for calculating performance measures, a process to check and ensure data accuracy, improved consistency in procedures, and ongoing training for Metro staff.

Additional policy-related audit recommendations such as more clearly defining goals for the MWESB program will require further research and work in collaboration with Metro Leadership.

DEFINITION OF TERMS

Minority-owned business enterprises (MBE), Women-owned business enterprises (WBE) and Emerging Small Businesses (ESB) are types of businesses that, when they meet certain qualifications, can be certified by the State of Oregon. In many cases, businesses that Metro works with are certified in more than one category.

For example, a certified minority-owned business might also have an emerging small business certification. For the purposes of this report, in those cases where the business has more than one certification, the minority-owned or womanowned certifications would be counted, and not the emerging small business certification. Emerging small businesses were counted, like the others, as a separate category.

Metro continues to focus on increasing the number and value of contracts awarded in each category. While Metro is required to maintain a diversity program that is race and gender neutral, we remain committed to working to award increasing contracts in the disadvantaged business communities, so that they correspond to size of the market in the region. By looking at data like the current U.S. Census and U.S. Bureau of Labor Statistics, Metro can deduce the availability of firms in each category by industry.

For example, if the makeup of the tree pruning market were 4 percent MBE, then ideally Metro would expect to have a utilization rate close to that number.

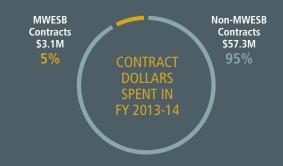
MWESB CONTRACTING: FY 2013-2014

Total Contracts Awarded	538
MWESB Contracts Awarded:	95
Non-MWESB Contracts Awarded:	443
MBE Contracts Awarded	34
WBE Contracts Awarded	18
ESB Contracts Awarded	43
Total Contracted Dollars Awarded	\$22,742,349
Total MWESB Contract Dollars Awarded	\$3,537,961
Total Spending FY 2013-14	\$60,375,092
Total MWESB Spending FY 2013-14	\$3,098,990

VALUE OF MWESB CONTRACTS BY DEPARTMENT: FY 2013-2014

Origin	Awarded	Spent
CNL	\$0	\$15,130
COM	\$0	\$43,873
C00	\$4,999	\$0
FRS	\$109,450	\$8,755
HR	\$117,850	\$48,513
IS	\$0	\$63,079
ОМА	\$0	\$5,040
PES	\$1,190,747	\$1,262,559
PLN	\$286,860	\$267,527
RC	\$2,500	\$74,736
SUS	\$935,338	\$938,869
Z00	\$890,217	\$370,910
Grand Total		\$3,098,990





During the past fiscal year, Metro awarded a total of \$22,742,349 through the competitive procurement process and direct award of contracts less than \$5,000 to MWESB firms. Firms that were MWESB certified earned a total of \$3,537,961 in contract awards. This represents a utilization rate of 15 percent by dollar amount. This does not include contracts that are exempt from competition such as Qualified Rehabilitation Facilities, intergovernmental agreements and grants.

During the past fiscal year, Metro spent a total of \$60,375,092 through the competitive procurement process and direct award of contracts less than \$5,000 to MWESB firms. Firms that were MWESB certified earned a total of \$3,098,990 that Metro spent through contracts. This represents a utilization rate of 5.1 percent by dollar amount. Of the amount spent through MWESB contracts, \$1,009,389 went to minority-owned businesses, \$685,994 went to woman-owned businesses, and \$1,403,607 went to emerging small businesses.





During FY 2013-14, Metro awarded 538 eligible contracts through the competitive procurement process and direct award of contracts less than \$5,000 to MWESB firms. This does not include intergovernmental agreements or grants. Of the total contracts awarded, 95 went to certified MWESB firms. These MWESB awards represent 17.7 percent of the total count of contracts awarded.

During FY 2013-14 a total of \$3,537,961 contracts were awarded to underserved businesses: \$1,246,039 to emerging small businesses, \$1,315,600 to woman-owned businesses and \$976,322 to minority-owned businesses. Emerging small businesses led in the amount of dollars awarded.

MERC VENUES' FOTA AND MWESB PARTICIPATION DURING FY 2013-2014

The first opportunity target area, (FOTA) was originally established in 1989. The program was intended to provide employment opportunities to "economically disadvantaged residents living in economically distressed neighborhoods in the immediate vicinity of the Oregon Convention Center site."

The Metropolitan Exposition Recreation Commission (MERC) later expanded the program to include the Portland'5 Center for the Arts and the Portland Expo Center. Later, the FOTA program was expanded to include purchase and contracting opportunities.

The FOTA program is currently under review and is likely to change in the coming year.

Total spending by MERC venues in FY 2013-2014 was \$8,298,399. Firms that were MWESB certified earned a total of \$359,234 that MERC venues spent through contracts, representing 4.3 percent of total MERC spending. Of this, \$117,431 went to minority-owned businesses, \$147,077 went to womanowned businesses, and \$94,725 went to emerging small businesses.

Of this, a total of \$59,206 was spent in the FOTA, representing 0.7 percent of the total spent.

Procurement Showcase Condors of the Columbia

Condors of the Columbia is a new Oregon Zoo exhibit that provides a home for adult birds from the zoo's Jonsson Center for Wildlife Conservation condor recovery program that cannot be released in the wild. For the first time, Oregon Zoo visitors have the unique opportunity to see these colorful, intelligent birds and highly endangered birds and learn about the survival challenges they face. The new exhibit was made possible by funding from the \$125 million Zoo Bond Measure, approved by voters in November 2008.

Condors of the Columbia opened to the public on May 24, 2014 after nine months of construction. At completion of the exhibit, \$363,502 of the project's contracts went to MWESB firms, making up 25.8% of the total contract value. As a result of outreach and engagement efforts from Metro staff and 2KG, the project's primary contractor, the project exceeded the MWESB utilization goal of 15% for all zoo bond-funded projects.

In addition to helping advance regional economic opportunity, Metro's outreach efforts for the Condors of the Columbia habitat helped to build awareness among MWESB firms of construction opportunities at the zoo and improved their ability to compete for future projects as part of the zoo's 20-year master plan.

METRO AND ZOO STAFF ENGAGED IN VARIOUS OUTREACH STRATEGIES TO ENCOURAGE MWESB CONTRACTORS TO SUBMIT BIDS FOR THE PROJECT:

- Pre-project planning with Metro's Procurement Services Team to identify best practices for reporting MWESB participation and strategies for increasing involvement.
- Directed outreach and personal correspondence with diversity and small business organizations to encourage MWESB participation.
- Identified several qualified MWESB general contractors to contact directly about the project.
- Posted an ad in the Daily Journal of Commerce and The Skanner announcing the bidding period.
- Attended an OAME meeting to announce project details and encouraged MWESB participation.
- Discussed the agency's MWESB program and participation goals at the project pre-bid conference to ensure bidders were prepared to meet expectations.





Our Past Creating Goals to Promote Equity

In 2010, the Metro Council acknowledged that historical patterns of exclusion and discrimination against racial or ethnic groups and women resulted in social, political and economic inequity that is still prevalent in our community today.

In response, the council set forth a policy that directs staff to maximize opportunities for MWESB businesses to compete for Metro contracts. Increasing MWESB participation in Metro contracts helps to distribute the burdens and benefits of economic growth more equally by employing traditionally underserved companies. The value of those contracts has a multiplier effect for our communities, supporting families and strengthening neighborhoods across the region.

MWESB involvement also improves the procurement process at Metro by stimulating competition between firms and reinforcing Metro's values of diversity and equity.

Since 2010, Metro has established relationships with business organizations that support MWESB firms, provided education for Metro staff about MWESB policies, and improved outreach to MWESB firms.

PERCENT OF ALL CONTRACTS AWARDED TO MWESB FIRMS

FY 2012-2013 FY 2013-2014 13% 15%



PERCENT OF ALL SPENT DOLLARS EARNED BY MWESB FIRMS

FY 2012-2013 FY 2013-2014 **5.1%**







"There never were in the world two opinions alike, no more than two hairs or two grains; the most universal quality is diversity." - Michel de Montaigne

2013-2014 **Progress in Procurement**

Metro has been consistently improving its engagement with MWESB firms for years, but FY 2013-2014 saw an exceptional amount of progress. Agency staff ramped up outreach to MWESB firms, strengthened partnerships with community and business organizations, and updated the way Metro tracks MWESB utilization.

Metro has also been using ORPIN, the state's procurement information network, to direct opportunities to MWESB firms. To complement this move, Metro has provided training for MWESB firms about how to use ORPIN. Metro is scheduled to continue ORPIN training on a quarterly basis and add sessions to train MWESB firms on how to discover and respond to RFPs.

In addition, Metro began to make changes to procedures as part of the Procurement Enhancement Project, a collaboration of several project teams that have worked to clarify and improve the agency's procurement practices.



ALL OF THESE EFFORTS WILL HELP MWESB FIRMS
FEEL COMFORTABLE THROWING THEIR HAT IN THE RING
FOR CONTRACTS AND ULTIMATELY INCREASE MWESB
INVOLVEMENT IN FUTURE CONTRACTS.



Outreach

Metro's efforts to increase active project manager participation in outreach events continued in 2014 and the Construction Project Manager Office created a new coordinated project participation calendar to encourage continued participation. These outreach efforts have been well received by minority business chambers and owners of underserved businesses.

Metro is a partner and member of the Metropolitan Contractor Improvement Partnership (MCIP), a Portland-based organization that works to build capacity for minority contractors in the community. MCIP coaches firms to increase profitability by improving business management systems and provides training for writing bids and proposals. In the coming year, MCIP will facilitate one of Metro's MWESB training sessions.



ENGAGING THE COMMUNITY

Metro is a member of the following business chambers focused on minorities and women:

- National Association for Minority Contractors Oregon
- Oregon Native American Chamber
- African American Business Chamber
- Hispanic Business Chamber
- Oregon Association of Minority Entrepreneurs
- Women in Trades
- Asian Pacific American Chamber of Commerce

Metro attends regular meetings of:

- National Association for Minority Contractors Oregon
- Oregon Association of Minority Entrepreneurs
- Oregon Native American Chamber
- Hispanic Business Chamber

In 2014, Metro supported the following events:

- Mega Mixer
- MCIP Trade Show
- OAME Trade Show
- Governor's Market Place
- Annual events for ONAC, APACC, the Hispanic Business Chamber
- Night of Networking at OHSU for individuals with disabilities
- Quarterly MWESB summits

Outreach, continued

GOVERNOR'S MARKET PLACE

Procurement Services attended the Governor's Market Place in April 2014 and conducted a presentation about the Metro MWESB program. The event brought together state, regional, and federal governments, private sector companies, and nonprofit organizations to learn about ways to help Oregon's small and emerging business community grow.

OPEN HOUSES AND TRADE SHOWS

At the MWESB Open House on May 20, 2014, Metro staff hosted tables and provided information about department projects and business opportunities to over 200 participants of the MWESB community.

Procurement Services shared information about the Metro procurement process and conducted training sessions about how to successfully respond to Sustainable Procurement and Diversity requirements when writing a proposal.

In May 2014, Metro also attended the OAME Trade Show, an event designed to connect purchasers and buyers from public and private agencies with MWESB firms.

ORPIN OUTREACH

In 2014, Metro Procurement Services implemented ORPIN, the State of Oregon's electronic solicitation and bidding system, in order to reach a wider range of MWESB firms. Metro shared information about how to use ORPIN to register and discover business opportunities at minority business chamber meetings, outreach events, individual meetings, and through advertising campaigns in minority publications.

HOSTING MWESB EVENTS

Starting in 2014, Metro has hosted monthly National Association for Minority Contractors Oregon meetings at the Metro Regional Center. NAMC Oregon supports minority and women construction and trade contractors and provides technical support to their members. Procurement Services regularly participates in NAMC Oregon meetings and shares information about business opportunities and connecting with Metro project managers. Project managers and department staff are invited on a consistent basis.

Metro also hosts ONAC's monthly luncheons on a quarterly basis. In the last year, minority business chambers have displayed increased interest in using Metro facilities for their outreach events.

Technical Assistance

Metro has responded to requests from the MWESB community by offering training for contractors about how to respond to the diversity and sustainable procurement requirements of RFPs and RFBs.

METRO HAS ALSO PROVIDED CONTRACTORS WITH ADDITIONAL TRAINING:

- How to navigate ORPIN
- How to find Metro's business opportunities
- How to register as an MWESB at the State of Oregon website

In addition, the Metro Procurement Manager has held one-on-one meetings with contractors to answer questions about Metro processes and the best ways to connect with Metro project managers.

Marketing and Solicitation of Bids

Metro Procurement Services has made a concerted effort to inform MWESB contractors about business opportunities and solicit bids.

- → 19 local plan centers pick up Metro bid information and documents through ORPIN and make them available to MWESBs.
- → Metro posts all solicitations over \$5,000 on ORPIN. Formal solicitations \$100,000 and over are also advertised in at least one local minority publication, and places public notice in the Daily Journal of Commerce.

PUBLICATIONS WHERE METRO PLACES ADVERTISEMENTS INCLUDE:

- Portland Observer
- The Skanner
- Asian Reporter
- El Hispanic News

Through the state's Oregon Procurement Information Network (ORPIN), Metro has directed solicitations for informal purchasing opportunities between \$5,000 and \$50,000 to MWESB firms through automated email notifications using commodity codes for different work categories. ORPIN reaches over 65,000 businesses and contractors, of which 3,387 are certified as MWESB firms. Metro has used this broad network to solicit bids for informal construction opportunities from qualified, sheltered market MWESB firms.

Metro also announces projects to partner organizations for inclusion in their communications with members.

THESE PARTNER ORGANIZATIONS INCLUDE:

- Oregon Association of Minority Entrepreneurs
- The Metropolitan Hispanic Chamber of Commerce
- The African American Chamber of Commerce
- The National Association of Minority Contractors
- The ARC Plan Center
- The Asian Pacific American Chamber of Commerce
- The Oregon Native American Chamber of Commerce
- National Association of Women in Construction
- Portland Area Business Association
- Beaverton's Collaborative Business Incubator and Executive Development Center
- Minority Contractor Improvement Partnership



"If we cannot now end our differences, at least we can help make the world safe for diversity." - President John F. Kennedy

Diversity Training and Procedures

CONNECTING TO METRO DIVERSITY EFFORTS

Procurement Services connected with Metro's Diversity and Equity programs and began evaluating outreach efforts to discover how the programs can operate more efficiently. As a result, Procurement Services has started leading the diversity action Procurement Core Team, creating a connection to overall Metro diversity efforts. The Procurement Core Team functions as an advisory board for the MWESB program.

IMPROVING THE SUBCONTRACTOR UTILIZATION REPORT PROCESS

In coordination with the Zoo Bond team, Procurement Services has started to improve the subcontractor utilization report process and requirements for prime contractors in order to improve tracking of MWESB utilization. The improved report will increase accountability of the prime contractor to hire contractors from underserved business communities. This action ensures compliance with Good Faith Effort to meet MWESB contracting goals.

AUDIT RECOMMENDATION

INITIATED THE PROCUREMENT ENHANCEMENT PROJECT

To strengthen Metro's ability to comply with policies and procedures, Metro launched the Procurement Enhancement Project (PEP), a collaboration of several project teams that have worked to clarify and improve the organization's procurement business processes. Several regional woman- and minority-owned businesses participated in the process of revising the procurement requirements and procedures.

PEP Results:

- Clarified Metro business processes and MWESB program requirements
- Established a new online procurement manual to clearly communicate procurement requirements and ensure consistency in complying with rules
- Improved the diversity requirements to allow minority and woman owned businesses to be more successful when submitting proposals
- Revised sustainable procurement language to help MWESB firms successfully meet Metro's sustainability requirements
- Updated agency-wide MWESB training materials and conducted training to Metro staff in person and on the Metro Learning Center

AUDIT RECOMMENDATION



PROCUREMENT SERVICES
HAS STARTED LEADING
THE DIVERSITY ACTION
PROCUREMENT CORE
TEAM, CREATING A
CONNECTION TO
OVERALL METRO
DIVERSITY EFFORTS.



The Future **Creating Opportunity**

By actively including MWESB firms in the agency's contracting efforts, Metro helps to create a strong regional economy. Inclusion also helps MWESB firms build their capacity to compete for public procurement contracts by getting them familiar with the RFP process and establishing relationships with Metro staff.

The number of MWESB firms Metro works with, and the value of contracts that go to MWESB firms changes each year as the agency has different numbers and types of projects. Metro's use of MWESB firms went up in the last fiscal year and staff will continue to work to raise involvement even further.

As our region continues to grow and change, so do Metro's efforts to reflect the population we serve. The agency's policies to encourage MWESB participation are constantly evolving and improving. These changes are driven by dedicated Metro staff who are actively listening, developing relationships with MWESB firms, and responding with improvements to the way things are done.



Survey and Focus Groups

Procurement Services conducted a regional MWESB survey, soliciting feedback from over 400 state-certified MWESB firms about their experience in doing business with Metro, finding business opportunities and getting contracts.

→ Metro contacted 1,800 MWESB firms in the region. 480 businesses responded.

As a follow-up to the survey, Metro engaged MCIP Director Tony Jones to conduct focus groups with 15 MWESB firms to discuss how businesses have interacted with Metro in the past, what MWESB firms' needs are and how Metro can improve the procurement process for these firms.

COMMENTS FROM THE MWESB FOCUS GROUPS:

- It is hard to do business with Metro
- Business owners don't know to whom they should talk
- Business owners don't have connections with project managers
- Some firms have a contract for on-call services but never get called
- Solicitation documents are too daunting
- Metro tends to do business with large companies
- RFPs are designed for large firms
- Some smaller firms avoid submitting Metro proposals because they don't want to compete with large corporations

THE SURVEY AND FOCUS GROUPS IDENTIFIED THREE MAJOR ISSUES WITH THE METRO PROCUREMENT PROCESS:

Issue #1:

The procurement process is complex and RFP and RFB forms are daunting to navigate and complete.

Metro Response:

Metro is currently in the processes of reviewing and revising all solicitation and contracting forms in order to make them more user-friendly for small businesses. New forms are scheduled to be implemented in 2015. Metro will also continue to engage in external training to guide MWESB firms through the procurement process and prepare them

to compete in the procurement process. This training will be in the form of online materials, in-person workshops, and one-on-one meetings. Metro is actively addressing this issue in our operational goals.

Issue #2:

MWESB firms lack connections to Metro staff and don't know the right people to contact to get information about business opportunities.

Metro Response: Metro is working to build relationships by including project managers in outreach programs and one-on-one meetings with vendors. Metro is actively addressing this issue in our operational goals.

Issue #3:

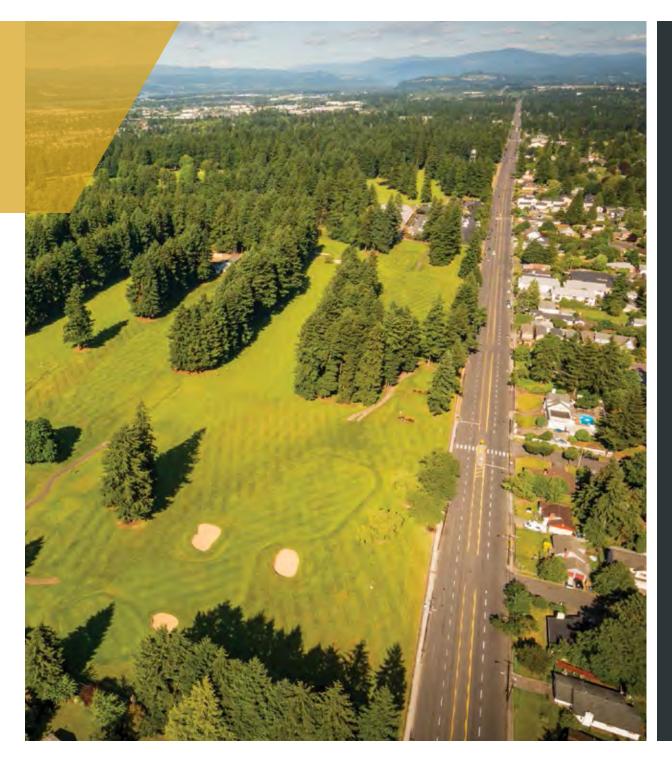
Large projects are not designed for small businesses to submit proposals.

Metro Response:

Metro is examining how to package RFP's and RFB's to allow for subcontracting opportunities, offer partnerships and mentorships for large projects, and give incentive points to primary contractors who offer job mentoring and subcontracts to small businesses. These items still need to be addressed in the future.



"We may have different religions, different languages, different colored skin, but we all belong to one human race." - Kofi Annan



Updating Metro's MWESB Reporting Method

In 2014, Metro established a new standard reporting method to better measure MWESB utilization. Finance and Regulatory Services assigned a business analyst to establish a standard reporting method that improves calculation of performance measures and ensure consistency over time. This year's report uses the new calculation method for the first time.

The new reporting method uses performance measures that more accurately assess expected program performance and includes a process to check and ensure data accuracy.

As a result of the new calculation method, statistics look different than in recent years and utilization rates show results that might not have been reflected in past years' reports.

The goal is to establish a consistent method of reporting in order to accurately compare Metro MWESB utilization from year to year.

AUDIT RECOMMENDATION

EXISTING REPORTING METHOD

Take total construction contract amount and divide by sum of work performed by MWESB certified firms to get total percentage of MWESB utilization.

MWESB CONSTRUCTION UTILIZATION CONTRACT CONTRACT RATE: VALUE: TOTAL:

 $$363,502 \div $1,566,777 = 23.2\%$

NEW REPORTING METHOD

The new reporting method removes any type of work that cannot reasonably be performed by an MWESB-certified firm from the utilization rate calculation. This type of work tends to be highly specialized or proprietary by specification. As a result, few contractors of any type are capable of performing this work.

For their new exhibit, Condors of the Columbia, the Oregon Zoo needed a contractor to produce a unique aviary mesh. There are only a handful of vendors for this material in the United States and none are certified as Oregon State MWESB firms.

CONSTRUCTION INTERNATIONAL APPLICABLE CONTRACT CORDAGE CONTRACT TOTAL: REVISED MWESB APPLICABLE CONTRACT TOTAL:

\$1,566,777 - \$157,845 = \$1,408,932

REVISED MWESB
MWESB APPLICABLE UTILIZATION
CONTRACT CONTRACT RATE:
VALUE: TOTAL:

\$363,502 ÷ \$1,408,932 = 25.8%

THE PROPOSED PROCESS TO DECIDE WHICH WORK DOES NOT QUALIFY:

- During the Construction Documents phase and prior to finalizing the bid package, the Project Manager and General Contractor review the project scope by trade breakdown, conduct a preliminary search of the Oregon MWESB database to document the availability of firms, and document all work that cannot be reasonably performed by MWESB contractors.
- The compiled list is then reviewed by a third party committee and administered by Procurement for scope eligibility and sign-off.
- The value of the scopes of work deemed ineligible for MWESB firms are deducted from the total construction contract amount to determine the base for utilization rate calculation.

Work with **Metro**

Metro is actively seeking to work with minority-owned, woman-owned, and emerging small businesses. Each year, Metro awards millions of dollars in contracts for products and services and actively solicits bids and proposals from businesses that are certified as MWESB by the State of Oregon.

Metro also seeks bids from certified MWESB contractors for public improvement projects between \$5,000 and \$50,000 through its Sheltered Market Program.

HOW TO DO BUSINESS WITH METRO

1. Get certified:

Apply for MWESB certification through the State of Oregon at www.oregon4biz.com/Grow-Your-Business/Business-services/Minority-Owned-Business-Certification

2. Respond to requests for proposals, bids and quotes:

Once you have MWESB certification, follow current opportunities through the Oregon Procurement Information Network (ORPIN) and respond by the deadline.

3. Stay informed:

Metro hosts networking events for MWESB businesses and participates in MWESB outreach events. To learn about upcoming events, email gabriele.schuster@oregonmetro.gov.

MORE INFORMATION

For more information about business opportunities at Metro, visit the Metro MWESB website:

www.oregonmetro.gov/howmetro-works/contract-opportunities/ minority-women-and-emergingsmall-business-program

PROCUREMENT STAFF AT METRO

GABRIELE SCHUSTER, Procurement Manager gabriele.schuster@oregonmetro.gov | 503-797-1577

TRACY SAGAL, Senior Procurement Analyst tracy.sagal@oregonmetro.gov | 503-813-7596

Responsibilities: Agency-Wide Contracts, Internal Procedure, Policy Trainin

JULIE HOFFMAN, CPPB, Procurement Analyst julie.hoffman@oregonmetro.gov | 503-797-1648

Assigned departments: Parks and Environmental Services, Planning and Research Center, Construction Project

Management Office Responsibilities: DBE Program Administration, Sustainable Procurement, Cooperative Procurement

RIKO FROHNMAYER, Procurement Analyst riko.frohnmayer@oregonmetro.gov | 503-797-1615

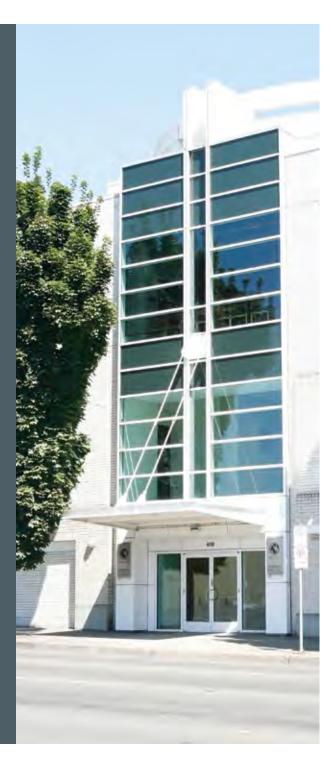
Assigned departments: Visitor Venues

KAREN SLUSARENKO, CPPB, Procurement Analyst karen.slusarenko@oregonmetro.gov | 503-797-1809

Assigned departments: The Oregon Zoo. Information Services

SHARON STIFFLER, CPPB, Procurement Analyst sharon.stiffler@oregonmetro.gov | 503-797-1613

Assigned departments: Communications, Finance and Regulatory Services, Human Resources, Sustainability Center Responsibilities: Qualified Rehabilitation Facility Procurement, Contract Reporting to Council, Website

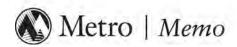




MERC Commission Meeting

November 5, 2014 12:30 pm

6. Proposed Changes to MERC Contracting and Purchasing Rules



Date: October 28, 2014

To: Metro Exposition and Recreation Commission

From: Tim Collier, Director of Finance and Regulatory Services

Gabriele Schuster, Procurement Services Manager

Subject: Update to MERC Contracting and Purchasing Rules

On October $23^{\rm rd}$, the Metro Council adopted several changes to the Metro Contracting Code to maintain consistency with the state procurement rules, strengthen the MWESB program, and improve the overall efficiency and effectiveness of the procurement process. The major change in the code is to change the dollar thresholds for source selection to match limits in Oregon Revised Statute Chapter 279.

Due to the structure of the MERC Contracting and Purchasing Rules, the code changes will not apply to the MERC Venues until the rules adopted by the Commission are changed. Staff is planning to bring the changes before the Commission at its December meeting. In advance of that meeting, Staff is providing the draft rules and staff report for the Commission's review. If there are any questions about the proposed changes, please contact staff in advance of the meeting.

SECTION 1 - DEFINITIONS

The following terms shall have the following meanings:

- **A.** "Commission" means the Metropolitan Exposition-Recreation Commission.
- **B.** "Contract Manager" means the MERC staff person responsible for a particular procurement.
- **C.** "Emergency" means circumstances that: (a) could not have been reasonably foreseen; (b) create a substantial risk of loss, damage or interruption of services or a substantial threat to property, public health, welfare or safety; and (c) require prompt execution of a contract to remedy the condition.
- **D.** "Emergency Contract" means a contract whose purpose is limited to remedying an emergency situation.
- E. "Emerging Small Business" or "ESB" means a State of Oregon-certified emerging small business firm.
- F. "First Opportunity Target Area" or "FOTA" means the economically distressed area located in the immediate vicinity of the Oregon Convention Center as authorized by Section 2, Chapter 909, Oregon Laws 1989.
- **G.** "General Manager" means the individual appointed by the Commission who is responsible for managing the MERC staff.
- **H.** "Labor and Materials Bond" means a bond for the protection of a person or firm claiming to have supplied labor or materials for the performance of work provided for in a public contract.
- I. "MERC Facility" or "Facilities" means the Oregon Convention Center, the Portland Center for the Performing Arts, and the Portland Metropolitan Exposition Center, and any other facilities that are added to MERC's management responsibilities from time to time.
- J. "MERC Purchasing Procedures Manual" means the administrative procedures prepared by the General Manager.
- **K.** "Minority Business Enterprise" or "MBE" means a State of Oregon-certified minority owned business.
- **L.** "Performance Bond" means a bond conditioned on the faithful performance of a contract in accordance with the plans, specifications, and conditions of the contract.

- **M.** "Personal Services Contract" means any contract by which MERC acquires a professional, artistic, creative, consulting, educational, or management service. Contracts which are predominately for the purpose of obtaining a product, labor, or materials, or the services of a construction trade are not personal services contracts.
- **N. "Public Contract"** means any purchase, lease or sale by MERC of personal property, public improvement or services, including those transacted by purchase order, other than agreements which are for personal services.
- O. "Public Improvement Contract" means a contract for the construction, reconstruction or major renovation on real property. A public improvement contract does not include emergency work, minor alteration, or ordinary repair or maintenance.
- **P.** "Revenue Contract" means a contract that provides revenue to MERC wherein MERC does not purchase a good or service.
- Q. "Woman-Owned Business Enterprise" or "WBE" means a State of Oregon-certified woman-owned business.

SECTION 2 - GENERAL PROVISIONS

A. Intent.

This document contains the purchasing and contracting rules adopted by the Metropolitan Exposition-Recreation Commission pursuant to ORS 279A.065. The intent of these rules is to permit the most flexible and efficient contracting procedures available under applicable state law and the Metro Code.

B. Exceptions To These Rules.

These policies do not apply to: (1) employment contracts for Commission personnel, (2) contracts for the lease or use of MERC facilities, (3) sponsorship and naming agreements, which are subject to MERC's Sponsorship and Naming Policies, (4) donations and grants, (5) revenue contracts, to the extent permitted by the Metro Code and state law, and (6) other contracts exempted by the Commission from these policies on a case by case basis.

C. <u>Oregon Attorney General's Model Rules Inapplicable.</u>

The Oregon Attorney General's model contracting rules do not apply to the Commission.

D. Conflicts With Oregon Public Contracting Code.

In the event of a conflict between any provision of the Oregon Public Contracting Code and these rules, the provisions of the Oregon Public Contracting Code shall control.

SECTION 3 - AUTHORITY AND DELEGATION

A. <u>Duties And Powers Of The Commission</u>.

In accordance with Section 6.01.040(J) of the Metro Code, the Metropolitan Exposition-Recreation Commission is empowered to enter into contracts as the Commission deems necessary under contracting rules adopted by the Commission. Specifically, the Commission has the authority to enter into contracts of such types and in such amounts, including intergovernmental agreements, as the Commission may deem necessary, appropriate, or convenient for the renovation, equipping, maintenance, repair, operation and marketing of the use of buildings and facilities for which it is responsible, and for professional and other services. Pursuant to Metro Code Section 6.01.040, the Commission is impliedly empowered to amend and terminate contracts to which the Commission is a party, as the Commission may deem necessary, appropriate or convenient.

B. <u>Commission Approval Required.</u>

Procurements of \$100,000 \$150,000 or more require the Commission, by duly adopted resolution, to select the contractor and approve the contract.

C. General Manager's Authority.

The Commission delegates to the General Manager the authority to conduct procurements of less than \$100,000\\$150,000. The General Manager may enter into contracts less than \$100,000\\$150,000 without the approval of the Commission. All contracting by the General Manager shall be conducted in accordance with the Oregon Public Contracting Code, these rules, and the MERC Purchasing Procedures Manual promulgated by the General Manager. The General Manager may delegate his/her authority under these rules. Any such delegation shall be in writing.

D. Facility Authority.

1) <u>Procurement Authority</u>.

Individual MERC facilities shall not contract for amounts above \$5,000\\$10,000 without the prior approval of the General Manager. All contracting by the MERC facilities shall be conducted in accordance with the Oregon Public Contracting Code, these rules, and the policies promulgated by the General Manager.

2) Amendment Authority.

No contract in an amount above \$5,000\\$10,000 may be amended without the General Manager's approval. Any amendment of a contract by individual MERC facilities shall comply with all the requirements of Section 8 of these rules.

E. Purchasing Procedures Manual Required.

The General Manager shall develop a MERC Purchasing Procedures Manual with instructions to implement these rules. The MERC Purchasing Procedures Manual does not require Commission approval and may be revised as deemed necessary by the General Manager.

F. Contracts List Required.

The General Manager shall maintain a "current and pending contracts list" that shows items or services to be purchased and, if applicable, due dates and times bids or proposals will be opened.

SECTION 4 - PUBLIC CONTRACTS (GOODS & SERVICES)

A. Applicability.

The rules in this Section 4 apply to all public contracts of the Commission except public improvement contracts. Public improvement contracts are governed by Section 7 of these rules. For purposes of this Section 4, a public contract means any purchase, lease, or sale by MERC of personal property or services, including those transacted by purchase order, other than agreements that are for personal services. Personal services are governed by Section 5 of these rules.

B. Public Contracts Not Exceeding \$5,000 \$10,000.

A public contract not exceeding \$5,000\subseteq 10,000 may be awarded in any manner deemed practical or convenient by the General Manager. The General Manager shall promulgate procedures in the MERC Purchasing Procedures Manual for contracts not exceeding \$5,000\subseteq 10,000.

C. Public Contracts Exceeding \$5,000 \$10,000 But Less Than \$100,000 \$150,000.

Any public contract exceeding \$5,000 \square\$10,000 but less than \$100,000 \square\$150,000 shall be awarded in accordance with the provisions of ORS 279B.070, as follows:

- 1) A procurement may not be artificially divided or fragmented so as to fall within this rule.
- When conducting a procurement under this section, the contract manager shall seek at least three informally solicited competitive price quotes or competitive proposals from prospective contractors. The contract manager shall attempt to obtain at least one quote from a state-certified MBE, WBE, or ESB within the FOTA area. The contract manager shall attempt to obtain a second quote from any state-certified MBE, WBE, or ESB regardless of

location. The contract manager shall keep a written record of the sources of the quotes or proposals received. If three quotes or proposals are not reasonably available, fewer will suffice, but the contract manager shall make a written record of the effort made to obtain the quotes or proposals. Nothing shall prevent the contract manager from obtaining more than three quotes at any time.

- If a contract is awarded, the contract shall be awarded to the offeror whose quote or proposal will best serve the interests of MERC, taking into account price as well as considerations including, but not limited to, experience, expertise, product functionality, suitability for a particular purpose and contractor responsibility under ORS 279B.110.
- 4) Before the contract is awarded, the contract manager shall notify the General Manager of the nature of the proposed contract, the estimated cost of the contract, the names of the offerors and the amounts of the quotes or proposals, and the name of a contact person for the offeror. The contract may not be awarded without the approval of the General Manager.

D. <u>Public Contracts Of \$100,000 \$150,000 Or More.</u>

Public contracts of \$100,000 \$150,000 or more shall be awarded in accordance with this section, unless the contract is within a class of contracts designated by the Metro Council as a class special procurement. If the Metro Council has designated the procurement as a special procurement, the procurement may be awarded in accordance with Section 6 of these policies. Procurements governed by this Section 4(D) shall be awarded through the issuance of competitive sealed bids in accordance with ORS 279B.055, or through the issuance of competitive sealed proposals in accordance with ORS 279B.060, as follows:

- 1) Public Contracts Procured Through The Issuance Of Requests For Competitive Sealed Bids.
 - a) The Commission delegates authority to the General Manager to prepare and approve request for bid documents and to solicit competitive sealed bids. Commission staff is responsible for determining the exact specifications for the proposed purchase. The Commission delegates authority to the General Manager to prepare and approve requests for information, requests for interest or other preliminary documents to obtain information useful in the preparation of invitations to bid. Every procurement using competitive sealed bids shall comply with all the requirements of ORS 279B.055.
 - b) The procurement may not proceed without the approval of the General Manager.

- c) The Commission shall evaluate the competitive sealed bids and shall select the successful bidder or bidders in accordance with the criteria set forth in this section and in ORS 279B.055, as it may be amended from time to time. Completion of the procurement process requires Commission approval of the contract award and approval of the written contract by resolution. If a contract is awarded, the Commission shall award the contract:
 - (1) To the lowest responsible bidder whose bid substantially complies with the requirements and criteria set forth in the invitation to bid and with all prescribed public procurement procedures and requirements; or
 - (2) When the invitation to bid specifies or authorizes the award of multiple contracts, to the responsible bidders:
 - (a) Whose bids substantially comply with the requirements and criteria set forth in the invitation to bid and with all prescribed public procurement procedures and requirements; and
 - (b) Who qualify for the award of a public contract under the terms of the invitation to bid.
- d) The Commission may, by duly adopted resolution, waive the requirements for Commission approval of contract award subject to any conditions established by the Commission.
- e) The Commission may reject any or all competitive sealed bids in accordance with the provisions of ORS 279B.100.
- 2) <u>Public Contracts Procured Through The Issuance Of Requests For Competitive Sealed Proposals.</u>

Any procurement of goods or services of \$100,000 \squares150,000 or more may be awarded through the issuance of competitive sealed proposals, in accordance with the provisions of ORS 279B.060, as follows:

a) The Commission delegates authority to the General Manager to prepare and approve proposal documents and to solicit competitive proposals. Commission staff is responsible for determining the exact needs and evaluation criteria for any proposed purchase. The Commission delegates authority to the General Manager to prepare and approve requests for information, requests for interest, requests for qualifications or other preliminary documents to obtain information useful in the preparation of a request for proposals, in

accordance with ORS 279B.060(11). Every procurement using competitive sealed proposals shall comply with all the requirements of ORS 279B.060.



- b) The Commission delegates to the General Manager the authority to determine the evaluation criteria and selection methods to be used. The evaluation criteria and selection methods chosen by the General Manager shall be identified in the request for proposals. When provided for in the request for proposals, the contract manager may employ any combination of methods of evaluation, including but not limited to the methods listed in ORS 279B.060(6)(b).
- c) The procurement may not proceed without the approval of the General Manager.
- d) The Commission shall evaluate the competitive sealed proposals and shall award the contract to the responsible proposer whose proposal the Commission determines, by duly adopted resolution, to be the most advantageous to the Commission based on the evaluation process and evaluation factors described in the request for proposals, any applicable preferences required by Oregon law and, when applicable, the outcome of any negotiations authorized by the request for proposals. Completion of the procurement process requires Commission approval of the contract award and approval of the written contract by resolution.
- e) The Commission may waive the requirements for Commission approval of contract award subject to any conditions established by the Commission.
- f) The Commission may reject any or all competitive sealed proposals in accordance with the provisions of ORS 279B.100.

SECTION 5 - PERSONAL SERVICES CONTRACTS

A. Applicability.

This section establishes the rules for the procurement of personal services. Personal services contracts are those contracts designated by the Metro Council as "personal services contracts." Section 2.04.010 of the Metro Code defines "personal services contract" as follows:

"Any contract by which Metro acquires a professional, artistic, creative, consulting, educational, or management service. Contracts with are predominately for the purpose of obtaining a product, labor or materials, or the services of a construction trade are not a personal services contract."

The objective in contracting for personal services is to obtain the highest quality of work for the most reasonable price. The quality of technical services may be more important than cost.

B. <u>Personal Services Contracts Not Exceeding \$5,000 \$10,000</u>.

A personal services contract not exceeding \$5,000 \$10,000 may be awarded in any manner deemed practical or convenient by the General Manager. The General Manager shall promulgate procedures in the MERC Purchasing Procedures Manual for contracts not exceeding \$5,000 \$10,000.

C. <u>Personal Services Contracts Exceeding \$5,000 \$10,000 But Less Than \$100,000</u> \$150,000.

Any procurement of personal services exceeding \$5,000 \$10,000 but less than \$100,000 \$150,000 shall be awarded in accordance with the provisions of ORS 279B.070, as follows:

- 1) A procurement may not be artificially divided or fragmented so as to fall within this rule.
- When conducting a procurement under this section, the contract manager shall seek at least three informally solicited competitive price quotes or competitive proposals from prospective contractors. The contract manager shall attempt to obtain at least one quote from a state-certified MBE, WBE, or ESB within the FOTA area. The contract manager shall attempt to obtain a second quote from any state-certified MBE, WBE, or ESB regardless of location. The contract manager shall keep a written record of the sources of the quotes or proposals received. If three quotes or proposals are not reasonably available, fewer will suffice, but the contract manager shall make a written record of the effort made to obtain the quotes or proposals. Nothing shall prevent the contract manager from obtaining more than three quotes at any time.
- If a contract is awarded, the contract shall be awarded to the offeror whose quote or proposal will best serve the interests of MERC, taking into account price as well as considerations including, but not limited to, experience, expertise, product functionality, suitability for a particular purpose and contractor responsibility under ORS 279B.110.
- 4) Before the contract is awarded, the contract manager shall notify the General Manager of the nature of the proposed contract, the estimated cost of the contract, the names of the offerors and the amounts of the quotes or proposals, and the name of a contact person for the offeror. The contract may not be awarded without the approval of the General Manager.

D. Personal Services Contracts of \$100,000 \$150,000 Or More.

Any procurement of personal services of \$100,000 \$150,000 or more shall be awarded through the issuance of competitive sealed proposals, in accordance with the provisions of ORS 279B.060, as follows:

- The Commission delegates authority to the General Manager to prepare and approve proposal documents and to solicit proposals. Commission staff is responsible for determining the exact needs and evaluation criteria for any proposed services requiring competitive sealed proposals. The Commission delegates authority to the General Manager to prepare and approve requests for information, requests for interest, requests for qualifications or other preliminary documents to obtain information useful in the preparation of a request for proposals, in accordance with ORS 279B.060(11). Every procurement using competitive sealed proposals shall comply with all the requirements of ORS 279B.060.
- The Commission delegates to the General Manager the authority to determine the evaluation criteria and selection methods to be used. The evaluation criteria and selection methods chosen by the General Manager shall be identified in the request for proposals. When provided for in the request for proposals, the contract manager may employ any combination of methods of evaluation, including but not limited to the methods listed in ORS 279B.060(6)(b).
- The procurement may not proceed without the approval of the General Manager.
- 4) The Commission shall evaluate the competitive sealed proposals and shall award the contract to the responsible proposer whose proposal the Commission determines, by duly adopted resolution, to be the most advantageous to the Commission based on the evaluation process and evaluation factors described in the request for proposals, any applicable preferences required by Oregon law and, when applicable, the outcome of any negotiations authorized by the request for proposals. Completion of the procurement process requires Commission approval of the contract award and approval of the written contract by resolution.
- 5) The Commission may waive the requirements for Commission approval of contract award subject to any conditions established by the Commission.
- The Commission may reject any or all competitive sealed proposals in accordance with the provisions of ORS 279B.100.

SECTION 6 - SPECIAL PROCUREMENTS

A. Metro Council Designation Of Special Procurements.

A contract may be awarded as a special procurement if (a) the contract is in a class of contracts that has been designated as a special procurement or (b) the specific contract has been approved by Metro Council as a special procurement. A current list of special procurements designated by Metro Council is contained in Attachment "A."

B. **Procedures For Special Procurements.**

Special procurements shall be procured in accordance with the specific procedure, if any, contained in the Metro Code for that class of procurement. If no procurement is specified by Metro Code for the class of the special procurement, procurement shall be performed by means of procedures chosen by the Chief Executive Officer as an appropriate method tailored to fit and in light of the demands, circumstances and market realities associated with obtaining each of the enumerated goods and services. Such procurement procedures may include but shall not be limited to direct negotiations with individual or multiple vendors or suppliers; negotiations with ranked proposers; competitive negotiations; or multiple tiered competitions.

SECTION 7 - PUBLIC IMPROVEMENT CONTRACTS

A. Competitive Quotes Permitted For Public Improvement Contracts Not To Exceed \$100,000 \$150,000.

Public improvement contracts estimated not to exceed \$100,000 \$150,000 may be let by competitive quote under the following procedures:

- When conducting a procurement under this section, the contract manager shall seek at least three informally solicited competitive price quotes from prospective contractors. The contract manager shall attempt to obtain at least one quote from a state-certified MBE, WBE, or ESB within the FOTA area. The contract manager shall attempt to obtain a second quote from any state-certified MBE, WBE, or ESB regardless of location. The contract manager shall keep a written record of the sources of the quotes received. If three quotes are not reasonably available, fewer will suffice, but the contract manager shall make a written record of the effort made to obtain the quotes. Nothing shall prevent the contract manager from obtaining more than three quotes at any time.
- 2) The contract manager shall award the contract to the prospective contractor whose quote will best serve the interests of MERC, taking into account price and other applicable factors, such as experience, specific expertise, availability, project understanding, contractor capacity, and contractor

- responsibility. If the contract is not awarded on the basis of the lowest price, the contract manager shall make a written record of the basis for the award.
- 3) A procurement may not be articifically divided or fragmented to qualify for the informal contract award procedures provided by this section.
- 4) Nothing in this section may be construed as prohibiting a contract manager from using competitive bidding procedures to conduct a procurement that is \$100,000 \$150,000 or less.
- 5. Before the contract is awarded, the contract manager shall notify the General Manager of the nature of the proposed contract, the estimated cost of the contract, the names of the offerors and the amounts of the quotes, and the name of a contact person for the offeror. The contract may not be awarded without the approval of the General Manager.

B. <u>Competitive Sealed Bids Required For Public Improvement Contracts</u> Exceeding \$100,000 \$150,000.

All public improvement contracts exceeding \$\frac{\$100,000}{\$150,000}\$ shall be based upon competitive sealed bids. The procedures for competitive bidding of all MERC public improvement contracts shall comply with all requirements that are generally applicable to local governments as set forth in ORS Chapter 279C.

C. <u>Negotiations With Bidder(s)</u>.

If bids are solicited for a public improvement contract, and all bids exceed the budget for the project, the contract manager may, prior to contract award and with the prior approval of the General Manager, negotiate for a price within the project budget under the following procedures:

- Negotiations shall begin with the lowest responsive and responsible bidder. If negotiations are not successful, then the contract manager may begin negotiations with the second lowest responsive, responsible bidder, and so on.
- 2) Negotiations may include the inclusion of value engineering and other options to attempt to bring the project cost within the budgeted amount.
- A contract may not be awarded under this section if the scope of the project is significantly changed from the description in the original bid documents.
- 4) The contract manager shall adhere to the provisions of ORS 279C.340 in applying this section.

D. Bonds.

Bonds and bid security requirements are as follows:

- 1) Bid security not exceeding 10 percent of the amount bid for the contract is required unless the contract is for \$50,000 or less.
- 2) For public improvements, a labor and materials bond and a performance bond, both in an amount equal to 100 percent of the contract price are required for contracts over \$100,000.
- Bid security, labor and material bond and performance bond may be required even though the contract is of a class not identified above, if the General Manager determines it is in the public interest.

E. Adoption Of Metro Good Faith Efforts Requirement For Construction Projects.

For construction contracts of \$100,000 \$150,000 or more, the Commission adopts in principle, policy, and content the "Good Faith Effort" program established by Metro Code \$2.04.100 through 2.04.190 (Metro Minority Business Enterprise, Women Owned Business, and Emerging Small Business Program) as they apply to contracts of the Commission. This adoption includes any and all ordinances subsequently adopted by the Metro Council relating to Metro's Minority Business Enterprise, Women Owned Business, and Emerging Small Business Program. The General Manager shall designate MERC staff to perform the functions of the Liaison Officer to carry out the MBE/WBE/ESB program as it relates to MERC contracting activities.

SECTION 8 - CONTRACT AMENDMENTS

A. Public Contract Amendments.

- 1) The General Manager may execute amendments to public contracts provided that any one of the following conditions are met:
 - a) The original contract was let by a formal competitive procurement process, the amendment is for the purpose of authorizing additional work for which unit prices or alternates were provided that established the cost for the additional work and the original contract governs the terms and conditions of the additional work; or
 - b) The amendment is a change order that resolves a bona fide dispute with the contractor regarding the terms and conditions of a contract for a public improvement and the amendment does not materially add to or delete from the original scope of work included in the original contract; or

- c) The amount of the aggregate cost increase resulting from all amendments does not exceed 20 percent of the initial contract if the face amount is less than or equal to \$1,000,000 or 10 percent if the face amount is greater than \$1,000,000; amendments made under subsection (a)(i) or (a)(ii) are not included in computing the aggregate amount under this subsection; or
- d) The Commission, by duly adopted resolution, has authorized the contract amendment.
- 2) No public contract may be amended to include additional work or improvements that are not directly related to the scope of work that was described in the competitive process utilized to award the contract.

B. <u>Personal Services Contract Amendments</u>.

- Personal services contracts of an initial amount of \$50,000 \$75,000 or less may be amended to increase the amount of the contract to no more than twice the original contract amount. The limit provided in this subsection is cumulative and includes any and all contract amendments or extensions. Any contract amendment(s) in excess of this limit must be approved by the Commission.
- Personal services contracts with an initial amount greater than \$50,000 \$75,000 may be amended provided that any amendment that increases the total amount payable to an amount more than \$50,000 \$75,000 greater than the initial contract amount shall be subject to approval by the Commission. The Commission shall determine whether it is appropriate to amend the contract in light of the policies set forth in ORS 279A.015 and ORS 279B.010.

SECTION 9 - APPEAL PROCEDURES

A. Appeal Requirements.

Any aggrieved bidder or proposer who wishes to protest a contract award must notify the General Manager in writing within five (5) working days of the postmark date on the notice of award or the date of alleged violation. The protest must describe the specific rule, regulation, statute, or procedure upon which the appeal is based and the specific alleged conduct that violates such authority. Disagreement with the judgment exercised by evaluators in scoring a proposal is not a basis of appeal.

B. General Manager Response.

The General Manager shall respond to the protestor within ten (10) working days of receipt of notice of appeal. The response shall reject the protest if the General Manager finds that

the protest is lacking in merit or shall uphold the appeal. Acceptance of the protest by the General Manager may cause the rejection of all bids or proposals or the award of the contract to a different bidder or proposer at the General Manager's discretion.

C. Further Appeals.

If the protestor wishes to appeal the decision of the General Manager, the protestor must submit a written appeal to the General Manager within five (5) working days of the postmark date on the General Manager's decision. The appeal shall be presented to the Commission at its next meeting by the General Manager. The Commission may convene a special meeting to consider the appeal. The Commission shall, by resolution, reject the protest due to lack of merit or uphold the protest. Acceptance of the protest by the Commission may cause the rejection of all bids or proposals or may require the contract be awarded to a different bidder at the discretion of the Commission. If the proposer wishes to appeal the decision of the Commission, the protestor shall appeal to the Contract Review Board in writing within five (5) working days of the Commission's decision on the protest.

SECTION 10 - DISPOSITION OF PERSONAL AND SURPLUS PROPERTY

A. <u>Definitions</u>

For purposes of this section, the following terms have the following meaning:

- 1) "Acquiring Facility" means the MERC facility that last used the property prior to declaring it surplus. For purposes of this section, MERC Administration is considered an acquiring facility.
- 2) "Surplus Property" means any MERC asset, whether or not carried as a fixed asset on the general ledger, and deemed to be of no further useful value to the acquiring MERC facility or to MERC as a whole.
- 3) "Property Services Manager" means the MERC official designated by the General Manager to administer the disposal of surplus property.
- 4) "MERC Property" means all personal property purchased with MERC funds, or given to MERC at no cost. Real Property is not included.
- 5) "Useful value" means the functional utility of an item, as determined by the acquiring facility, or the Property Services Manager after consulting with the acquiring department.
- 6) "Market value" means the amount of money that the sale of property could yield as determined by the Property Services Manager after reasonable inquiry.

7) "Scrap" means the property has no useful value to MERC and no market value. Surplus property may also be designated scrap if the further storage or cost of disposal exceeds its market value.

B. General Scope.

Property purchased by individual facilities and being used by MERC facilities is under the control of those facilities until it is of no further use to the facility. When property is declared to be of no further use to an individual facility, it is to be turned over to the Property Services Manager to be reused by another facility, sold, discarded or donated. Property cannot be disposed of by the individual facilities. When property is located at a site remote from the Property Services Manager, he/she may delegate the disposal and sale function to the facility director having control over the asset. When this is done, the facility director shall notify the Property Services Manager of intent to dispose of property. The Property Services Manager will make the determination based on the most cost effective disposal method.

C. <u>Procedures</u>.

Surplus property turned over to the Property Services Manager by MERC facilities will be processed as follows:

- When a determination is made by the Property Services Manager that surplus property has further value to MERC, and the cost of storage does not exceed its value, it may be stored for future use. An inventory of property available for use by other MERC facilities will be maintained in the office of the Property Services Manager.
- When surplus property is determined by the Property Services Manager to have no useful value to MERC and the market value exceeds \$100,000 after cost of advertising and sale, Commission approval for the sale is required. The property may be sold by one of the following methods:
 - a) Advertise the sale in a newspaper of general circulation. Receive bids for the purchase and sale of the property to the highest bidder.
 - b) Hold a public auction with a licensed auctioneer, or auction the property in accordance with auction procedures of an auctioneer under contract with the State of Oregon. Auction sales may be conducted entirely on the internet. Sale shall be for cash to the highest bidder.
 - c) In the case of specialty property where the market is narrow, the property may be consigned to a broker to sell. The broker must be approved by the Commission.

- d) The property may be sold or donated to another governmental entity or non-profit agency serving the region. The sale or donation under this provision shall be approved by the Commission.
- When surplus property is determined by the Property Services Manager to have no useful value to MERC and the market value exceeds \$10,000 but does not exceed \$100,000 after the cost of advertising and sale, the Property Services Manager shall sell the property by one of the following methods:
 - a) Advertise the sale in a newspaper of general circulation. Receive bids for the purchase and sale of the property to the highest bidder.
 - b) Hold a public auction with a licensed auctioneer, or auction the property in accordance with auction procedures of an auctioneer under contract with the State of Oregon. Auction sales may be conducted entirely on the internet. Sale shall be for cash to the highest bidder.
 - c) In the case of specialty property where the market is narrow, the property may be consigned to a broker to sell. The broker is to be selected by the Property Services Manager in consultation with the facility director after reasonable inquiry to insure the best marketing effort and commission rate is received.
 - d) The property may be sold or donated to another governmental entity or non-profit agency serving the region. The sale or donation under this provision shall be approved by the General Manager.
- When surplus property is determined by the Property Services Manager to have no useful value to MERC and a market value of greater than \$0 and less than \$10,000 after deducting the cost of advertising and sale, the Property Services Manager shall sell the property by one of the following methods:
 - a) Solicit bids from at least three liquidators or brokers (if there are three interested). The property will be sold to the highest bidder.
 - b) Hold a public auction with a licensed auctioneer, or auction the property in accordance with auction procedures of an auctioneer under contract with the State of Oregon. Auction sales may be conducted entirely on the internet. Sale shall be for cash to the highest bidder.
 - c) Conduct a public sale with marked prices reflecting the estimated quick sale value as determined by the Property Services Manager.

- d) In the case of specialty property where the market is narrow, the property may be consigned to a broker to sell. The broker is to be selected by the Property Services Manager, in consultation with the facility director, after reasonable inquiry to insure the best marketing effort and commission rate is received.
- e) The property may be sold or donated to another governmental entity or non-profit agency serving the region. The sale or donation under this provision shall be approved by the General Manager or his/her designee.
- When surplus property has no useful value and no market value as determined by the Property Services Manager, it is declared "scrap" and may be disposed of by any of the following methods:
 - a) Discard or recycle the property in any method prescribed by the Property Services Manager.
 - b) Donate the property to another governmental entity or nonprofit organization for reuse or sale.
 - c) As a last resort (to avoid discarding the property into the solid waste stream) the property may be given to any interested party agreeing to reuse or recycle it in exchange for the timely removal of the property from the premises.
- A record of all property disposals shall be maintained in the office of the Property Services Manager. All surplus property disposals will be recorded in the property disposal files and maintained in accordance with proper archiving practices.
- All personal property sold pursuant to this section shall be sold as-is without any warranty, either express or implied, of any kind, including but not limited to warranties of title or fitness for any purpose. Upon receiving payment for the personal property from the successful bidder, the person or company conducting the auction shall execute an appropriate bill of sale, which shall recite that the sale is without warranty, as provided in this subsection.

D. Accounting Requirements.

When the property is sold, proceeds from the sale shall be turned over to MERC Accounting and credited to the originating fund when the fund is identifiable. If the originating fund cannot be identified, the proceeds will be credited to the MERC Operating Fund as miscellaneous revenue.

When surplus property is a fixed asset carried on the general ledger, the disposal or transfer of the property to another facility shall be reported to MERC Accounting. The asset will be transferred to the receiving facility if the property has sufficient value to be considered a fixed asset on the general ledger.

E. <u>Exceptions</u>.

- 1) Expendable materials and supplies that are normally recycled or disposed of after use are not considered property for the purpose of this rule.
- 2) Real Property is not included in this rule.



MERC Staff Report

<u>Agenda Item/Issue:</u> For the purpose of amending the Metropolitan Exposition Recreation Commission Contracting and Purchasing Rules

Resolution No.: 14-XX Presented By: Gabriele Schuster

Date: TBD

Background and Analysis:

The Metro Contract Policies (Metro Code Chapter 2.04) delegate authority to the Commission to adopt contracting and purchasing rules for the MERC venues. The last significant update to the MERC Contracting and Purchasing Rules was in June 2013 and updated the rules in regard to minority, women, emerging small business contractors and the process and procedures for appeals of procurements.

Staff is currently working on a significant review of the contracting code, but does not anticipate bringing any comprehensive changes to the Council or Commission until Fall 2015. However, staff has identified one area in the MERC Contracting and Purchasing Rules that would benefit from updates during this interim period.

On October 23rd, 2014, the Metro Council approved a series of changes to the Metro Contract Policies that updated the dollar thresholds for methods of source selection in the Metro contracting code. The Metro contracting code and the MERC Contracting and Purchasing Rules closely follow Oregon Revised Statute (ORS) Chapter 279 which guides procurement for all public entities in the State. In many cases both Metro Code and the MERC rules reference applicable State statutes and generally follow the State process to simplify and clarify procurement processes, instill public confidence, and maximize the economic investment in public contracting within the state.

In the case of dollar thresholds for source selection, the Oregon Legislature updated the dollar amounts in the last major update to ORS Chapter 279. The recent action by the Metro Council updated the Metro Code to follow that change, but the MERC Contracting and Purchasing Rules have not been updated. The current MERC thresholds are as follows:

Туре	Threshold	Metro Process
Small Procurement	Up to \$5,000	May be awarded in any manner deemed practical or convenient by the General Manager.
Intermediate Procurement	Up to \$100,000	Generally require informal Request for Proposals/Bids and notification of three MWESB firms, with at least one from within the FOTA area.
Competitive Sealed	Over \$100,000	Formal, sealed Request for Proposals/Bids,
Bids/Proposals		and must be approved by the Commission

The current thresholds in ORS Chapter 279 are:

- Small Procurement Up to \$10,000
- Intermediate Procurement Up to \$150,000
- Competitive Sealed Bids/Proposals Over \$150,000

Staff is recommending changing the thresholds to match the limits in ORS 279 for the following reasons:

- Maintaining consistency with ORS 279 eases administrative burdens and provides greater predictability to vendors that work with multiple public entities.
- Increasing the threshold for small procurements has the potential to allow staff to award more contracts directly to MWESB and/or First Opportunity Target Area (FOTA) firms without requiring them to go through procurement processes. Often, even informal request for proposal processes are intimidating and/or technically challenging for smaller firms and do not yield the desired responses from MWESB firms.

<u>Fiscal Impact:</u> No budget impact.

Recommendation: Staff recommends that the Metropolitan Exposition-Recreation Commission adopt Resolution 14-xx, for the purpose of amending the Metropolitan Exposition Recreation Commission Contracting and Purchasing Rules.

MERC Commission Meeting

November 5, 2014 12:30 pm

7.0 Action Agenda

METROPOLITAN EXPOSITION RECREATION COMMISSION

RESOLUTION NO. 14-27

For the purpose of selecting HydroTemp Mechanical, Inc. for the Keller Auditorium – "Cooling Tower Replacement" and authorizing the Deputy Chief Operating Officer of Metro to execute a contract with HydroTemp Mechanical.

WHEREAS, the Keller Auditorium's Cooling Tower is over 15 years old and has reached the end of its useful life and requires replacement; and

WHEREAS, Portland'5 staff has worked with the Energy Trust of Oregon (ETO) to receive a cash incentive due to the improved energy efficiency of the selected replacement tower; and

WHEREAS, Section 7(B) of the Metropolitan Exposition Recreation Commission's ("MERC") Contracting and Purchasing Rules, requires competitive sealed bids under ORS Chapter 279C for public improvements such as this project; and

WHEREAS, MERC staff has evaluated the bids and HydroTemp Mechanical, Inc. is the lowest responsive and responsible bidder with a bid amount of two hundred one thousand, seventy-five & 00/100 (\$201,075.00)

BE IT THEREFORE RESOLVED as follows:

- 1. MERC selects HydroTemp Mechanical, Inc. as the lowest responsive and responsible bidder in response to the Request for Bids for the Keller Auditorium Cooling Tower Replacement.
- 2. MERC approves the contract with HydroTemp Mechanical, Inc. in the form substantially similar to the attached Exhibit A and authorizes the Deputy Chief Operating Officer of Metro to execute the contract on behalf of the Commission.

Passed by the Commission on November 5, 2014.	
	 Chair
	Citali
	Secretary/Treasurer
Approved As to Form:	,,
Alison R. Kean, Metro Attorney	
Ву:	
Nathan A. S. Sykes	
Deputy Metro Attorney	

MERC STAFF REPORT

Agenda Item/Issue: For the purpose of selecting HydroTemp Mechanical, Inc. for the Keller Auditorium -"Cooling Tower Replacement" and authorizing the Deputy Chief Operating Officer of Metro to execute a contract with HydroTemp Mechanical, Inc.

Resolution No: 14-27 Presented by: Josh Lipscomb

Date: November 5, 2014

Background and Analysis

The currently installed Keller Auditorium Cooling Tower is over fifteen years old and is in need of replacement. It is an inefficient system and, due to many years of poor water quality treatment practices, has required multiple repairs.

Replacing the existing cooling tower is in the best interest of the public and is recommended to be completed at this time as replacement is required during the winter months in preparation for the cooling season in spring of 2015.

Portland'5 worked with a mechanical engineer to explore any potential design improvements associated with the cooling system and found operational efficiencies and greater longevity with the selected TowerTech cooling tower. We anticipate a decrease in electricity consumption and have submitted the project to the Energy Trust of Oregon for a cash incentive based on the energy savings. Portland'5 hopes to receive up to \$20,000 in cash incentives based on the anticipated energy savings.

The scope of work for this project includes the removal of the existing cooling tower and the installation of the new tower. Also included is the replacement of the existing chemical treatment system with a new non-chemical treatment system already in use at the Antoinette Hatfield Hall and the Arlene Schnitzer Concert Hall, the installation of new variable frequency drives for the tower fans and spray nozzle and piping modifications as required.

MERC Staff prepared and issued Bid Documents and a Request for Bids in accordance with MERC's Purchasing Policies for Cooling Tower Replacement at the Keller Auditorium. MERC staff included in the bid documents requirements of a good faith effort for outreach to the MWESB and FOTA communities. In addition to these requirements, the RFB was published in the online version of El Hispanic News and the DJC, as well as ORPIN.

On August 28, 2014, MERC Staff conducted a site walk for potential bidders in which eleven (11) mechanical contractors attended. Four bids were received on September 25, 2014 and ranged from \$158,213.00 to \$214,250.00, however the two lowest bids were withdrawn after the bidders determined that the cooling tower quoted did not meet the specifications of the RFB. One bid was received from a MBE/ESB firm and none were from a FOTA firm. The lowest responsive and responsible bidder was HydroTemp Mechanical, Inc., in the amount of one hundred, ninety-eight thousand, seven hundred & 00/100 dollars (\$198,700.00). Portland'5 chose to include the electrical work as an add alternate to provide flexibility in the event that the prime contractor did not subcontract the work to an MWESB. HydroTemp Mechanical, Inc. included three ESB subcontractors in their bid pricing, including the add alternate electrical work. The subcontractors will provide the testing and balancing services,

piping insulation and electrical and each is a state of Oregon certified ESB with one also a WBE, for a total participation of \$7,425 or nearly 4%. With the acceptance of the electrical add alternate, the contract amount is increased to two hundred one thousand, seventy-five & 00/100 (\$201,075.00).

FISCAL IMPACT: This project has a budget of \$250,000 in FY 2014-15. It is expected the \$201,075.00 contract amount and other associated costs will remain below the total budgeted amount for the project. In addition to the estimated energy and operational labor savings, we expect to receive a rebate from the Energy Trust of Oregon (ETO) of up to \$20,000 which will offset the project costs.

RECOMMENDATION: Staff recommends that the Metropolitan Exposition-Recreation Commission, by Resolution No. 14-27 approve the contract award and written contract (attached hereto) with HydroTemp Mechanical, Inc., for the amount of two hundred, one thousand, seventy-five & 00/100 dollars (\$201,075.00) for the Cooling Tower Replacement at the Keller Auditorium.

Metro 600 NE Grand Ave. Portland, OR 97232-2736 503-797-1700

Construction Agreement

MERC CONTRACT NO. 305007

THIS CONSTRUCTION AGREEMENT is between Metropolitan Exposition Recreation Commission, an appointed commission of Metro, located at 600 N.E. Grand Avenue, Portland, OR 97232-2736, referred to herein as "MERC" or "Metro," and Hydro Temp Mechanical, Inc., referred to herein as "Contractor," located at 28465 SW Boberg Rd, Wilsonville, OR 97070.

THE PARTIES AGREE AS FOLLOWS:

ARTICLE I

SCOPE OF WORK AND CONTRACT TERMS

CONTRACTOR shall perform the work and/or deliver to MERC the goods described in the Scope of Work attached hereto and incorporated herein as Attachment A. All services and goods shall be of good quality and otherwise in accordance with the Scope of Work. CONTRACTOR shall perform the work and/or deliver to MERC the goods described in the Scope of Work strictly in accord with the terms of this Construction Agreement and the General Conditions attached hereto and incorporated herein as Attachment B.

ARTICLE II TERM OF CONTRACT

The term of this Contract shall be for the period commencing November 12, 2014 through and including April 3, 2015. Substantial completion per Section 9.4 of the General Conditions is February 27, 2015.

ARTICLE III CONTRACT SUM AND TERMS OF PAYMENT

MERC shall pay the CONTRACTOR for work performed and/or goods supplied as described in the Scope of Work, in the maximum amount of TWO HUNDRED ONE THOUSAND, SEVENTY-FIVE AND NO/100THS DOLLARS (\$201,075.00) (the "Maximum Price"). MERC shall not be responsible for payment of any materials, expenses or costs other than those which are specifically included in the Scope of Work. The Maximum Price includes all fees, costs and expenses of whatever nature. Each of MERC's payments to Contractor shall equal the percentage of the work Contractor accomplished during the billing period. Contractor's billing invoices shall include the MERC contract number, Contractor name, remittance address, invoice date, invoice number, invoice amount, tax amount (if applicable), and an itemized statement of work performed and expenses incurred during the billing period, and will not be submitted more frequently than once a month.

Contractor's billing invoices shall be sent to Metro Accounts Payable, 600 NE Grand Avenue, Portland, OR 97232-2736 or metroaccountspayable@oregonmetro.gov. The MERC contract number shall be referenced in the email subject line. Contractor's billing invoices for services through June 30 shall be submitted to Metro by July 15. Payment shall be made by MERC on a Net 30 day basis upon approval of CONTRACTOR invoice.

ARTICLE IV BONDS

In addition, for public works subject to ORS 279C.800 to 279C.870, CONTRACTOR and every subcontractor shall have a public works bond required by 2005 Oregon Laws Chapter 360 filed with the Construction Contractors Board before starting work on the project, unless exempt under Section 2 of 2005 Oregon Laws Chapter 360.

ARTICLE V PUBLIC CONTRACTS

All applicable provisions of ORS chapters 187 and 279A, 279B, and 279C and all other terms and conditions necessary to be inserted into public contracts in the State of Oregon, are hereby incorporated as if such provision were a part of this Agreement. Specifically, it is a condition of this contract that CONTRACTOR and all employers working under this Agreement are subject employers that will comply with ORS 656.017 as required by 1989 Oregon Laws, Chapter 684.

Metro 600 NE Grand Ave.

Construction Agreement

600 NE Grand Ave. Portland, OR 97232-2736 503-797-1700

MERC CONTRACT NO. 305007

For public work subject to ORS 279C.800 to 279C.870, the CONTRACTOR shall pay prevailing wages. If such public work is subject both to ORS 279C.800 to 279C.870 and to 40 U.S.C. 276a, the CONTRACTOR and every subcontractor on such public work shall pay at least the higher prevailing wage. The CONTRACTOR and each subcontractor shall pay workers not less than the specified minimum hourly rate of wage in accordance with Section 7 of 2005 Oregon Laws Chapter 360. MERC shall pay an administrative fee as provided in ORS 279C.825(1) to the Bureau of Labor and Industries pursuant to the administrative rules established by the Commissioner of Labor and Industries. CONTRACTORS must promptly pay, as due, all persons supplying to such contractor labor or material used in this contract. If the CONTRACTOR or first-tier subcontractor fails, neglects, or refuses to make payment to a person furnishing labor or materials in connection with the public contract for a public improvement within 30 days after receipt of payment from the public contracting agency or a contractor, the CONTRACTOR or first-tier subcontractor shall owe the person the amount due plus shall pay interest in accordance with ORS 279C.515. If the CONTRACTOR or first-tier subcontractor fails, neglects, or refuses to make payment, to a person furnishing labor or materials in connection with the public contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. CONTRACTOR must pay any and all contributions and amounts due to the Industrial Accident Fund from contractor or subcontractor and incurred in the performance of the contract. No liens or claims are permitted to be filed against MERC on account of any labor or material furnished. CONTRACTORS are required to pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

For public improvement work all CONTRACTORS must demonstrate that an employee drug-testing program is in place.

ARTICLE VI COUNTERPARTS

This Contract may be executed in counterparts or multiples, any one of which will have the full force of an original.

ARTICLE VII DELIVERY OF NOTICES

Any notice, request, demand, instruction, or any other communications to be given to any party hereunder shall be in writing, sent by registered or certified mail or fax as follows:

To Contractor:	Kenneth Troyer Hydro Temp Mechanical, Inc 28465 SW Boberg Rd. Wilsonville, OR 97070 503-582-1914 fax	To Metro:	Metro Procurement Services 600 NE Grand Ave Portland, Oregon 97232 503-797-1791 fax	
		With Copy to:	Josh Lipscomb 600 NE Grand Ave Portland, Oregon 97232 503-797-1795 fax	
CONTRACTOR			METROPOLITAN EXPOSITION RECREATION COMMISSION	
Ву		Ву		
Print Name		Print Name	Print Name	
Date		Date		

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ATTACHMENT A TO CONSTRUCTION AGREEMENT - SCOPE OF WORK

1. Purpose and Goal of Work

MERC is contracting for the replacement of the Cooling Tower at the Keller Auditorium, located at 222 SW Clay Street, Portland, OR 97201

2. Scope of Work

Description of Work

Contractor is to provide and install all material, labor and equipment necessary to complete system as described below and in the attached plans, specifications and structural calculations included as Attachments C, D and E respectively as referenced below.

The Project includes, but is not limited to:

- Removal of existing cooling tower and replacement with new tower as shown on drawings and specifications attached.
- Reuse of existing support beams for the new cooling tower installation, is specified.
- Provision and installation of new piping and piping supports as shown and specified.
- Installation of the cooling tower fan VFD and the cooling tower manufacturer's control panel, , as shown in attachments.
- Provide all Electrical work as described attachments.

Clarifications and Exclusions

- Contractor shall use the services of a Johnson Controls, Inc certified subcontractor for all building automation control work as specified.
- Contractor is responsible for all permitting required for any street and sidewalk closures required for completion of the scope of work.
- Structural engineering has been provided and all work described in Attachment E is included in the scope of work of this contract.
- Owner will provide all permit fees required by the City of Portland. Contractor is to coordinate with the Owner for all necessary inspections.

The Scope of Work includes any Plan Set, Specifications, any Addenda attached hereto, and any Change Orders entered into in accord with the terms of the Contract.

ATTACHMENT C: Plan Set, titled "Cooling Tower Replacement – Keller Auditorium" and dated July, 3, 2014;

ATTACHMENT D: Specifications titled "Keller Auditorium Cooling Tower Replacement" and dated July 16, 2014;

ATTACHMENT E: Structural Calculations titled "Keller Rooftop Chiller" and dated September 9, 2014;

And any modifications of any of the foregoing in the form of Addenda or Change Orders entered into in accordance with the terms of the Contract. Where applicable, reference to this Contract herein shall be deemed to refer to all of the Contract Documents.

Contractor shall provide all labor, tools, equipment, machinery, supervision, transportation, and every other item and service necessary to perform the Work described in the Contract Documents. Contractor shall fully comply with each and every term, condition and provision of the Contract Documents.

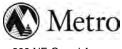
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METRO GENERAL CONDITIONS

ARTICLE 1 GENERAL PROVISIONS

- **1.1 Definitions.** Unless otherwise defined or specified in the Contract Documents, the following terms shall have the meanings indicated:
 - 1.1.1 <u>Act of God</u>: An earthquake, flood, typhoon, cyclone, or other natural phenomenon of catastrophic proportions or intensity.
 - 1.1.2 <u>Addendum</u>: A document issued by Metro during the solicitation period clarifying, adding, deleting, or materially changing Metro's solicitation documents.
 - 1.1.3 <u>Alternate Bids</u>: Portions of the Work for which a Bidder must submit a separate Bid amount. Alternate Bid items may or may not be awarded at Metro's discretion.
 - 1.1.4 <u>Architect</u>: A person retained by Metro as its design professional for the Work and authorized to practice architecture in the State of Oregon. The term "Architect" refers to the Architect or the Architect's authorized representative.
 - 1.1.5 "As-Builts" or Record Documents: Those drawings made, revised, or annotated by Contractor and approved by Metro during the performance of the Contract, fully illustrating how all elements of the Work were actually installed and completed.
 - 1.1.6 <u>Aspirational Target</u>: Target of intended utilization of MBE, WBE, and ESB firms that a contractor has no contractual obligation to meet.
 - 1.1.7 <u>Authorized Representative</u>: A person acting on behalf of another through expressly delegated authority as specified in these Contract Documents.
 - 1.1.8 <u>Bid</u>. The written offer of a Bidder to perform the Work as defined in these Contract Documents submitted in compliance with Metro's Bid Documents and Public Contracting Rules.
 - 1.1.9 <u>Bidder</u>: A person acting directly or through a duly and legally authorized representative who submits or intends to submit a Bid for the Work as described in these Contract Documents.
 - 1.1.10 Bid Documents: Those documents upon which a Bidder bases its bid to Metro.
 - 1.1.11 Business Day: Calendar day excluding Saturdays, Sundays, and legal holidays.
 - 1.1.12 <u>Bid Forms</u>: Forms required by Metro to be submitted with a Bid.
 - 1.1.13 <u>City or County</u>: The city or county in which the Work is located.
 - 1.1.14 <u>Change Order</u>: A written document signed by Metro and Contractor stating their agreement upon all of the following:
 - 1.1.14.1 The change in the Work;
 - 1.1.14.2 The amount of any adjustment in the Contract Amount; and
 - 1.1.14.3 The extent of any adjustment to the Contract Time.
 - 1.1.15 <u>Clarification</u>: A written document consisting of supplementary details, instruction or information issued by Metro after the award of Contract that clarifies or supplements the Contract Documents and becomes a part of the Contract Documents. A Clarification may or may not affect the scope of Work.
 - 1.1.16 Completion: See "Substantial Completion" and "Final Completion and Acceptance."
 - 1.1.17 Construction Schedule or Schedule: The timeline described in Article 5.
 - 1.1.18 Contract: The Contract Documents.
 - 1.1.19 <u>Contract Amount</u>: The total amount shown in the Construction Agreement as modified by any Change Orders.
 - 1.1.20 Contract Documents or Contract or Bidding Documents: All of the following documents: the Advertisement for Bids, the Invitation to Bid, the Instructions to Bidders, the Bid Forms, the Construction Agreement, the Performance Bond, the Labor and Materials Payment Bond, the General Conditions, the Supplementary Conditions, the Specifications, the drawings, the approved and updated Construction Schedule, and any modifications of any of the foregoing in the form of Addenda, Clarifications, Change Orders, or Force Account Work.
 - 1.1.21 <u>Contractor</u>: The person having entered into this Contract with Metro and who is responsible for the complete performance of the Work contemplated by the Contract Documents and for the payment of all legal debts pertaining to the Work, including its officers, agents, employees, and representatives.
 - 1.1.22 <u>Contract Time</u>: The amount of time stated in the Contract Documents for the performance of all or a specified portion of the Work, as modified by any Change Orders.
 - 1.1.23 <u>Critical Path Method or CPM</u>: The critical path method of scheduling as understood and interpreted by standard industry practice.

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- 1.1.24 <u>Day</u>: Calendar day including Saturdays, Sundays, and legal holidays.
- 1.1.25 <u>Defective Work</u>: Work that (a) is performed in an unsatisfactory, faulty, or deficient manner; (b) does not conform to the Contract Documents; (c) does not meet the requirements of any reference standard, test, or approval referred to or incorporated by the Contract Documents; or (d) has been damaged by anyone other than Metro prior to Acceptance of the Work, whether or not such Work is in Metro's possession or use.
- 1.1.26 <u>Direct Costs</u>: The costs of labor (including benefits), materials, and equipment incurred by the person performing the Work or part of the Work.
- 1.1.27 <u>Drawings</u>: The graphic and pictorial portions of the Contract Documents, wherever located and whenever issued, showing the design, location, and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.
- 1.1.28 <u>Engineer</u>: A person lawfully practicing engineering. The term "Engineer" refers to the Engineer or the Engineer's authorized representative.
- 1.1.29 <u>Environmental Laws</u>: Any applicable statute, law, ordinance, order, consent decree, judgment, permit, license, code provision, covenant deed, common law, treaty, convention, or other requirement pertaining to protection of the environment, health or safety, natural resources, conservation, wildlife, waste management, or disposal of hazardous substances or pollution, including but not limited to regulation of releases to air, land, water, and groundwater.
- 1.1.30 Equal, Approved, Approved Equal: The material or product to be supplied or installed is equal to or better than that specified in function, performance, reliability, quality, and general configuration and is approved by Architect. Equality in reference to the Project design requirements shall be determined by Architect prior to installation of any material or product in the Project. Where the term "or equal" is not used and a sole product is specified, the term "or equal" is implied.
 - 1.1.31 <u>Final Completion</u>: Full performance of all of the Work and acceptance of the Project by Metro.
- 1.1.32 <u>Final Payment</u>: The balance of the Contract Amount to be paid to the Contractor upon Final Completion and Acceptance of the Work. "Final Payment" includes payment of any withheld Retainage less deductions permitted or required by the Contract.
- 1.1.33 <u>First Opportunity Target Area or FOTA</u>; FOTA is the economically distressed area located in the immediate vicinity of the Oregon Convention Center as authorized by Section 2, Chapter 909, Oregon Laws 1989.
- 1.1.34 <u>Force Account Work</u>: Work, ordered in writing by Metro, for which Contractor must report its actual costs in accordance with Section 8.4 of the General Conditions.
- 1.1.35 <u>General Conditions</u>: The Metro General Conditions of the Contract for Construction set forth in this document.
- 1.1.36 <u>General Manager of Visitor Venues or GM</u>: The GM oversees the Portland'5 Centers for the Performing Arts, the Oregon Convention Center, the Portland Expo Center and the Oregon Zoo.
- 1.1.37 <u>Hazardous Materials</u>: Any substance defined or designated as being radioactive, infectious, hazardous, dangerous, or toxic by any federal, state, or local statute, regulation, or ordinance presently in effect or subsequently enacted. For purposes of Section 10.7, the term "introduce" means the physical placement or transportation of Hazardous Materials in or on the Project Site regardless of whether the Hazardous Material was specified, required, or otherwise addressed in the Contract Documents.
- 1.1.38 <u>Landscape Architect:</u> A person lawfully practicing landscape architecture. The term "Landscape Architect" refers to the Landscape Architect or the Landscape Architect's authorized representative.
- 1.1.39 <u>LEED Certification</u>: A Lead<u>e</u>rship in Energy and Design Certification issued by the United States Green Building Council (USGBS).
- 1.1.40 <u>Lump Sum</u>: A way of expressing the Contract Amount for the Work, or the price bid for a portion of the Work, stated as a single price for all labor, materials, supplies, incidental work, overhead, and profit.
- 1.1.41 Metro: A metropolitan service district organized under the laws of the State of Oregon and the Metro Charter. Metro is the Contract Review Board for MERC.
- 1.1.42 <u>Metropolitan Exposition Recreation Commission (MERC)</u>: An appointed commission of Metro with contracting authority for the Portland'5 Centers for the Arts, the Oregon Convention Center and the Portland Expo Center.
 - 1.1.43 Metro Chief Operating Officer or COO: The Chief Operating Officer of Metro.
 - 1.1.44 Metro Council or Council: Metro's elected governing body.
- 1.1.45 <u>Minority Business Enterprise, Women Business Enterprise and Emerging Small Business</u>

 ("MWESB"): A firm eligible to participate as a Minority Business Enterprise, Women Business Enterprise or Emerging Small Business (collectively referred to as "MWESB") because it meets the criteria as established by the Office of

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Minority Women and Emerging Small Business in the State of Oregon. A firm will no longer qualify as an MWESB on this Contract when it receives notification of decertification, denial of recertification, or notice of graduation by the certifying agency.

- 1.1.46 <u>MWESB Program</u>: Metro's program to provide maximum opportunities to Minority, Women-Owned and Emerging Small Business Enterprises in contracts, which is contained in Metro Code Section 2.04.100 to 2.04.190.
- 1.1.47 <u>Notice to Proceed</u>: The written notice given by Metro to the Contractor to proceed with all or part of the Work. The Notice to Proceed will also establish the date and time of a preconstruction conference.
- 1.1.48 Overhead: When applied to the cost of the Work, includes the following items, when reasonable and necessary for completion of the Work:
- 1.1.48.1 All on-site payroll costs, taxes, insurance, fringe benefits, and bonuses of same, for supervising, estimating, expediting, purchasing, drafting, and clerical/secretarial services where directly incurred in the performance of the Contract.
 - 1.1.48.2 Small tools (less than \$250 capital cost per item).
 - 1.1.48.3 Contractor-owned equipment.
 - 1.1.48.4 Equipment maintenance and repairs.
 - 1.1.48.5 Temporary construction, utilities, and safety requirements.
 - 1.1.48.6 Transportation of materials other than direct identifiable cost of specific deliveries,

or as included in price of material.

- 1.1.48.7 Parking fees for workers (if applicable).
- 1.1.48.8 Permit fees paid by the Contractor pursuant to the Contract Documents.
- 1.1.48.9 Cost of reproduction.
- 1.1.48.10 Field office costs. Home or branch office overhead shall not be included, but shall be part of Contractor's profit and shall include but is not limited to the following:
 - 1.1.48.10.1 Accounting functions of Contractor's home and branch office.
 - 1.1.48.10.2 General expenses of Contractor's home and branch office.
 - 1.1.48.10.3 Interest on capital.
 - 1.1.48.10.4 Salaries of any home and branch office estimators and administration.
 - 1.1.49 Owner: Metro.
- 1.1.50 <u>Person</u>: An individual, partnership, corporation, joint venture, limited liability corporation, joint stock company, or other legal entity.
 - 1.1.51 Plans: Drawings.
 - 1.1.52 Profit: That portion of Contractor's Bid price that is not Direct Costs or Overhead
 - 1.1.53 Project: The Work described in the Contract Documents.
- 1.1.54 <u>Project Manager</u>: The Metro representative on the construction Site. The Project Manager will be an employee of Metro who will represent Metro to the extent of his authority as delegated by the Chief Operating Officer. For purposes of administering this Contract the term "Project Manager" will refer to the on-site Metro representative and to any duly appointed assistants who may be designated in writing. The Architect will be called upon as required by and at the direction of Metro for technical assistance and for interpretation of the Contract Documents.
- 1.1.55 <u>Proposal</u>: The written offer of a Proposer to perform the Work as defined in these Contract Documents submitted in compliance with Metro's Request for Proposals and Public Contracting Rules.
 - 1.1.56 <u>Proposal Documents</u>: Those documents upon which a Proposer responds to a Request for
- 1.1.57 <u>Proposer</u>: A person who responds or intends to respond to a Request for Proposals issued by Metro.
 - 1.1.58 Provide: To furnish and install complete and in place and ready for operation and use.
- 1.1.59 <u>Punch List</u>: The list prepared by the Architect and/or Project Manager at the time of Substantial Completion that reflects Contractor's incomplete, nonconforming Work. Punch List items must be completed to the satisfaction of the Architect and Metro in order for the Project to reach Final Completion and Acceptance.
- 1.1.60 <u>Reference Specifications</u>: Bulletins, standards, rules, methods of analysis or testing, codes, and Specifications of other agencies, engineering societies, or industrial associations referred to in the Contract Documents that when included in the Contract Documents establish the basis by which specific portions of the Work

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are to be performed. All such references specified refer to the latest edition thereof, including any Amendments in effect and published at the time of advertising for Bids or of issuing the permit for the Project.

- 1.1.61 <u>Release</u>: When used in regard to environmental laws or regulations, "release" as defined in Oregon or federal law.
- 1.1.62 Request for Bid (RFB): A solicitation to perform Work where a Contract is awarded based on price.
- 1.1.63 Request for Information (RFI): A written request made by Contractor for additional information to clarify an ambiguity in the Contact Documents.
- 1.1.64 Request for Proposals ("RFP"): A solicitation to perform Work issued where a Contract is awarded based on factors other than or in addition to price.
- 1.1.65 <u>Retainage or Retention</u>: The difference between the amount earned by Contractor on the Contract and the amount paid on the Contract by Metro.
- 1.1.66 <u>Schedule of Values</u>: The detailed breakdown of a lump-sum contract amount as required in Section 9.2.
- 1.1.67 <u>Separate Contract</u>: A contract between Metro and a party other than Contractor for the construction or furnishing of a portion of the Project.
 - 1.1.68 Shown, As Shown: Work shown on the drawings that is a part of the Contract Documents.
 - 1.1.69 Site: The real property upon which the Project is located.
 - 1.1.70 Solicitation Documents: An RFB.
- 1.1.71 <u>Special Inspector</u>: A representative of Metro, Architect, Engineer or Geotechnical Engineer with specialized knowledge applicable to the installation of certain elements of the Work.
- 1.1.72 <u>Specifications</u>: That portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards, and workmanship for the Work, and performance of related services, including any Reference Specifications.
- 1.1.73 <u>Subcontractor</u>: A person that has a contract with Contractor to perform a portion of the Work at the Site.
- 1.1.74 <u>Submittals</u>: Includes shop drawings, samples, manufacturer's brochures, pamphlets, catalog cuts, color charts, or other descriptive data, clearly defining the article, material, equipment, or device proposed by Contractor for use in the Work. "Shop drawings" are the drawings and diagrams showing details of fabrication and erection that Contractor is required to submit to the Architect.
- 1.1.75 <u>Substantial Completion</u>: The stage in the progress of the Work, as determined by Metro, when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that Metro can lawfully occupy or use the Work for its intended use.
- 1.1.76 <u>Supplier</u>: An individual, partnership, corporation or joint venture entering into an agreement with Metro or Contractor for furnishing a portion of the Work that requires no labor at the Site, other than common carriers.
- 1.1.77 <u>Unit Price</u>: The dollar amount to complete a particular portion of the Contract Work, as defined in the Bid and Supplementary Conditions, and includes all costs, including but not limited to equipment, labor, materials, incidentals, Overhead, and Profit for the portion of Work described.
- 1.1.78 <u>Unusually Persistent Severe Weather</u>: Exists in any period when daily rainfall exceeds 0.50 inch during a month when the monthly average rainfall exceeds the normal monthly average by over twenty-five percent (25%), <u>or</u> when average daytime temperatures at the Project are less than 32 degrees F and are accompanied by accumulations of ice or snow, continuing for a day or more in excess of the annual average number of consecutive days severe weather conditions persist for the part of the Metro region where the Project is located ("Annual Average"). The Annual Average shall be calculated for this purpose based on ten-year averages reported in the <u>Local Climatological Data for Portland Oregon</u>, available at the Portland Weather Service Office. Contractor shall incorporate said Annual Average number of consecutive days severe weather conditions exist into the Project schedule at Project inception.
- 1.1.79 <u>Work</u>: Unless the context requires otherwise, the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by Contractor to fulfill Contractor's obligations. The Work may constitute all or a portion of the Project as the context requires.
 - 1.2 Interpretation and Use of Contract Documents.
- 1.2.1 <u>Intent and Effect of the Contract</u>. The Contract Documents form the Contract for construction and represent an integrated agreement between the Parties. The Contract supersedes all prior negotiations,

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representations, or agreements between the Parties, either written or oral. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work. Unless otherwise stated in the Contract Documents, words describing materials or Work that have a well-known technical or trade meaning shall be construed in accordance with such meanings.

- 1.2.2 <u>Modification of Contract Documents</u>. The Contract Documents may only be modified by written Amendment or Change Order signed by both Parties.
- 1.2.3 <u>Divisions and Headings</u>. Titles and headings are for the convenience of organizing the Contract Documents and shall not control or limit the Contractor's obligations under the Contract.
- 1.2.4 <u>Mandatory Nature of Specifications and Drawings</u>. Mention in the Specifications or indication on the drawings of articles, materials, operations, sequence, or methods requires Contractor to furnish and install (i.e., provide) each article mentioned or indicated, of the quality or according to qualifications noted, to perform each operation called for, in the sequence called for, and to provide therefore all necessary labor, equipment, and incidentals. The determination of the type of operations and methods to be utilized in the performance of the Work shall be the responsibility of Contractor unless the Contract Documents prescribe a specific type of operation, sequence, or method, in which case Contractor shall comply with the prescribed operation, sequence, or method. Sentences in the imperative tense or command format in these Contract Documents shall be deemed to be directed to Contractor and to require Contractor to perform the services and/or provide the materials described.
- 1.2.5 <u>Precedence of Contract Documents</u>. All determination of the precedence of, or resolution of discrepancies in, the Contract Documents shall be made by Metro, but in general, precedence will be in accordance with the following list with the highest precedence item at the top:
 - 1.2.5.1 Executed Construction Agreement.
 - 1.2.5.2 Supplementary Conditions.
 - 1.2.5.3 General Conditions, Advertisement for Bids, Instructions to Bidders, Invitation to
- Bid, Bid Forms, Performance Bond, and Labor and Materials Payment Bond.
 - 1.2.5.4 Specifications.
 - 1.2.5.5 Drawings.
 - 1.2.5.6 Contractor's Proposal. Within each of the above documents, detailed information

takes precedence over general information and words take precedence over numbers unless obviously incorrect.

Amendments, Addenda, Clarifications, and all Change Orders to the Contract Documents take

Amendments, Addenda, Clarifications, and all Change Orders to the Contract Documents take the same order of precedence as the specific sections that they are amending.

- 1.2.6 <u>Meaning of Miscellaneous Phrases</u>. Unless the context requires otherwise, phrases in the Contract Documents shall be interpreted as follows:
- 1.2.6.1 Wherever the words "as directed," "as instructed," "as required," "as permitted," or words of like effect are used, it shall be understood that the direction, requirement, or permission of Metro is intended.
- 1.2.6.2 The words "sufficient," "necessary," "proper," and the like shall mean sufficient, necessary, or proper in the judgment of Metro.
- 1.2.6.3 The words "approved," "acceptable," "satisfactory," or words of like import, shall mean approved by, or acceptable to, or satisfactory to Metro.
- 1.2.7 <u>Discrepancies, Errors and Omissions</u>. The intent of the Contract Documents is to require Contractor to perform and provide every detail and item necessary for completion of the Project. The Contract Documents are not complete in every detail, however, and Contractor shall comply with their intent and meaning, taken as a whole, and shall not avail itself of any manifest errors or omissions to the detriment of the Work. Should any error, omission, discrepancy, or ambiguity appear in the Contract Documents, instructions, or Work done by others, Contractor shall immediately upon discovery submit a Request for Information to Metro pursuant to Section 3.3. If Contractor proceeds with any such Work without receiving a response to the Request for Information, Contractor shall be responsible for all resulting damage and defects, and shall perform any Work necessary to comply with the Request for Information at no cost to Metro. Any Work or material not indicated in the Contract Documents that is manifestly necessary for full and faithful performance of the Work in accordance with the intent of the Contract Documents shall be indicated by Contractor on the shop drawings and provided by Contractor to the same extent as if both indicated and specified. Any Work indicated on the drawings but not specified, or vice versa, shall be furnished in the manner specified above as though fully set forth in both. Work not particularly detailed, marked, or specified shall be the same as similar parts that are detailed, marked, or specified. In case of discrepancy or ambiguity in quantity or quality, the greater quantity or better quality as determined by Metro shall be provided at no extra cost to Metro.

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- 1.2.8 <u>Standards that Apply Where Detailed Specifications Are Not Furnished</u>. Wherever in these Contract Documents or in any directions given by Metro pursuant to or supplementing these Contract Documents, it is provided that Contractor shall furnish materials or manufactured articles or shall do work for which no detailed Specifications are set forth, the materials or manufactured articles shall conform to the usual standards for first-class materials or articles of the kind required, with due consideration of the use to which they are to be put. Work for which no detailed drawings or Specifications are set forth herein shall conform to the usual standards for first-class work of the kind required. Dimensions not expressly provided in the Contract Documents are to be computed, rather than determined by scale or rule.
- 1.3 Supply of Contract Documents. Metro shall supply Contractor, without charge, a maximum of ten (10) sets of Contract Documents. Contractor shall contact Metro for additional sets of documents for which Contractor shall be charged the cost of printing.
- **1.4 Use of Contract Documents.** The Contract Documents were prepared for use in the construction of this Project only. No part of the Contract Documents shall be used for any other construction or for any other purpose except with the written consent of Metro. Any unauthorized use of the Contract Documents is at the sole responsibility of the user and such unauthorized use shall be deemed an activity in the performance of the Contract for purposes of Contractor's duty to indemnify under Article 11.
- **1.5 Copyright.** All submittals, record documents, and any other products or documents produced by Contractor pursuant to this Contract are the property of Metro and it is agreed by the Parties hereto that such documents are works made for hire. Contractor does hereby convey, transfer, and grant to Metro all rights of reproduction and the copyright to all such documents.
- 1.6 Contractor's Status as Independent Contractor. It is understood and agreed that the relationship of Contractor to Owner shall be that of an independent contractor under ORS 670.600. The Contractor further agrees that Contractor, its officers, agents, and employees, any Subcontractor or Supplier of Contractor of any tier, or its officers, agents, or employees, are not officers, employees, or agents of Metro under the Oregon Tort Claims Act (ORS 30.260 through 30.300). Contractor and its officers, agents, employees, and its Subcontractors and Suppliers of any tier and their officers, agents, and employees will make no claim whatsoever against Metro for indemnification pursuant to ORS 30.260 to 30.300. Contractor agrees to hold Metro harmless and indemnify Metro from any such claims.
- **1.7 No Third-Party Beneficiary to the Contract.** The Parties agree that the execution of the Contract is not intended to, nor does it, create any third-party beneficiary rights in any person.
- 1.8 Severability Clause. Should any provision of this Contract at any time be in conflict with any law, regulation, or ruling, or be legally unenforceable for any reason, then such provision shall continue in effect only to the extent that it remains valid. In the event that any provision of this Contract shall become legally unenforceable, in whole or in part, the remaining provisions of this Contract shall nevertheless remain in full force and effect.
- 1.9 Notice or Service. Any written notice required or allowed under the Contract shall be deemed to have been communicated to the other Party and service thereof shall be deemed to have been made if such notice is delivered in person to the individual, a member of the partnership or joint venture, or an officer of the corporation for whom it was intended, or if delivered at or sent by regular, registered, or certified mail to the last business address of the relevant person or Party known to the person or Party giving the notice, or to Contractor's Site office if the notice is directed to Contractor. Notice may be delivered by e-mail as long as a hard copy is mailed the same day to the relevant person by the methods noted above. The date or time of service for purposes of all notices required or allowed under the Contract shall be the date and/or time upon which the relevant document was mailed or delivered as above described. The address given in the Bid or Proposal by the Contractor is hereby designated as the legal business address of Contractor, but such address may be changed at any time by ten (10) days' prior notice in writing, delivered to Metro.

ARTICLE 2 CONTRACTOR

2.1 Responsibilities of the Contractor.

2.1.1 The Contractor will perform the Work as required by the Contract Documents, including but not limited to providing all labor, materials, equipment, tools, machines, and incidental work necessary for its performance. The Contractor will supervise and direct the Work using the Contractor's best skill and attention. Contractor is solely responsible for and will have control of all of the means and methods of construction. Contractor shall be responsible to Metro for the acts and omissions of the Contractor's employees, Subcontractors, and their agents and employees, and other persons or entities performing portions of the Work for or on behalf of the Contractor or any of its Subcontractors. Contractor shall perform or cause to be performed all labor, services, and Work of

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whatever nature and shall provide or cause to be provided all materials, equipment, tools, and other facilities of whatever nature necessary to complete the Work and shall otherwise cause the Work to be completed in accordance with the Contract Documents.

- 2.1.2 Until the Work is completed and accepted by Metro, the Contractor is responsible for any damage it causes to either permanent or temporary work, utilities, materials, plants, and equipment, all of which must be repaired to the satisfaction of the Project Manager at the Contractor's expense. Damage caused by vandals must be covered by the Contractor's insurance. Damage to any portion of the Work that has been completed and accepted by Metro and that is open for public use is not the responsibility of the Contractor if caused by third persons, such as vandals.
- 2.1.3 It shall be the duty of Contractor to comply with all procedures established and/or implemented by Metro. In the event any such procedures are at variance with other provisions of these Documents, such procedures shall prevail.

2.2 Documents.

- 2.2.1 The Contractor will maintain at the Site for Metro one record As-Built copy of the drawings, plans, Specifications, Addenda, Change Orders, and other modifications, in good order and marked currently to record changes and selections made during construction, as well as one record copy of shop drawings that have been reviewed and are being used. These as-built documents shall incorporate all changes and substitutions to the Work, including without limitation changes or substitutions arising from Change Orders, construction change directives, and details clarified by requests for information, supplemental instructions, or approved shop drawings. The Contractor's as-built documentation shall be available to the Architect and Metro during the course of the Project.
- 2.2.2 The Contractor shall maintain all approved permit drawings in a manner that will make them accessible at the Project Site to governmental inspectors and other authorized agencies. All approved drawings shall be wrapped, marked, and delivered to Metro within 60 days of Substantial Completion.
- 2.2.3 The Contractor must continuously maintain at the Project Site all material safety data sheets, safety records, daily logs, and other Contract documentation necessary to immediately ascertain the safety of the Work and to establish compliance with life safety policies, hazardous materials requirements, and the Contract Documents.
- 2.2.4 The Contractor, with its Subcontractors, will prepare draft record Contract Documents showing all as-built conditions as required under this Section 2.2 and submit them to Metro for review. Based on Metro's review and comments, if any, and pursuant to Metro's close-out policies and procedures, Contractor will prepare and deliver to Metro within 60 days of Substantial Completion, final, accurate, and complete record Contract Documents, including without limitation record drawings and Specifications showing the exact "as-built" conditions of the Work.
- 2.3 Contractor's Authorized Representative. Prior to commencing any Work under this Contract, the Contractor shall appoint in writing an authorized representative or representatives. Such appointment shall include the name and title of each representative along with the extent to which each representative is authorized to represent, bind, and act for Contractor. The description of extent of representation shall include but not be limited to the maximum dollar value of Change Orders that the individual may authorize, whether the individual may respond to RFPs and for what maximum dollar amount, and whether the individual may submit a claim pursuant to Section 3.4.
- **2.4 On-Site Representation Required.** Contractor shall at all times be represented at the Site by one or more of such authorized representatives who, cumulatively, shall have complete authority to represent, bind, and act for Contractor in all matters pertaining to or related to this Contract. In the event that Metro deems it reasonably necessary to take immediate actions at the Site pertaining or relating to this Contract and Contractor has failed to comply with this Section and is consequently not fully represented at the Site at such time, then Contractor shall be deemed to acquiesce in all actions so taken by Metro.
- 2.5 Contractor's Office at the Site. Prior to commencement of Work at the Site, Contractor shall establish a field office at the Site acceptable to the Project Manager. This office shall be located in a job trailer or temporary building. This office shall be the headquarters of Contractor's representatives authorized to receive notices, instructions, drawings, or other communications from the Project Manager on behalf of Metro or the Architect, and to act on Change Orders or other actions. Such notices, instructions, drawings, or other communications given to such a representative or delivered to Contractor's Site office in his/her absence shall be deemed to have been given to Contractor.
- **2.6 Use of the Site by Contractor.** Contractor shall have complete and exclusive use of the premises for execution of the Work within the boundaries shown on the drawings. The Contractor's use of the premises is limited only by Metro's right to perform Work or to retain other contractors on portions of the Project. All construction activities, storage, staging, and Work shall be confined to the limits of Work, as per the drawings. Under no circumstances shall portions of the Site beyond the limits of Work be disturbed. The Contractor shall appropriately fence and maintain

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barriers to confine limits of Work to those areas indicated on the drawings. All driveways and entrances to the Site shall remain clear and available to Metro and emergency vehicles at all times. The Contractor shall not use these areas for parking or storage of materials. The Contractor shall schedule delivery of materials to minimize space and time requirements for storage of materials and equipment on Site. The Contractor shall keep roadway pavement clean, free of mud, rocks, debris associated with materials, and vehicles. The Contractor shall coordinate use of the premises under the direction of the Architect and Owner. The Contractor shall assume all responsibility for the protection and safe keeping of the Site, structures, and products stored on the Site included in this Contract. At no cost to Metro, the Contractor shall move any stored products that interfere with operations of Metro or construction activities. The Contractor shall obtain and pay for the use of additional storage or Work areas needed for operations.

- **2.7 Review of Project Conditions.** Prior to execution of the Contract, the Contractor will evaluate the conditions and limitations under which the Work is to be performed, including without limitation (i) the geographical and topographical location, condition, layout, and nature of the Project Site and surrounding areas; (ii) generally prevailing climatic conditions; (iii) anticipated labor supply and costs; (iv) availability and cost of materials, tools, and equipment; (vi) ease or difficulty of access to the Project Site by vehicles, equipment and workers; and (v) other similar issues. The Contractor shall be solely responsible for providing a safe place for the performance of the Work. Metro will not be required to make any adjustment to the Contract Time or the Contract Price in connection with any failure by the Contractor to have complied with the requirements of this Section.
- **2.8 Construction Staking.** Contractor shall provide all necessary construction staking as to lines and grades shown on the drawings. Contractor shall protect and preserve all control points in their original position or be responsible for providing new control points established from Architect's original control points.
- **2.9 Construction Staging Area.** Coordinate use of the Site with Owner prior to utilization of the area. Providing Site security, barriers, and other temporary protection is the responsibility of the Contractor. Limit all construction activities within the Work limits shown on the drawings. All areas disturbed in any way or during construction and not covered by roads, parking, or structures shall be rehabilitated to their pre-construction condition.
- **2.10 Key Personnel.** Contractor shall submit, in writing, to Metro a list of the names, addresses, and telephone numbers of its key personnel who are to be contacted in case of emergencies on the job during non-working hours, including Saturdays, Sundays, and holidays, and all other key personnel as may be required.

2.11 Contractor's Employees and Subcontractors.

- 2.11.1 Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them. It is the Contractor's responsibility to hire all personnel for the proper and diligent performance of the Work, and the Contractor shall maintain labor peace for the duration of the Project. In the event of a labor dispute, the Contractor shall not be entitled to any increase in the Contract Sum.
- 2.11.2 Metro may notify the Contractor that it needs to exclude or remove from the Project Site any or all employees, agents, suppliers, or representatives of the Contractor or its Subcontractors who threaten the safety of others or who are disruptive to the Project or Metro's operations. The Contractor will supply replacement personnel promptly after receiving notice of exclusion or removal. Nothing in this Section requires the Contractor to take any particular employment or contract action with regard to an employee or Subcontractor.
- 2.11.3 Contractor shall give Metro, at its request at any time, full and correct information as to the number of workers employed in connection with each subdivision of the Work, the classification and rate of pay of each worker, the cost to Contractor of each class of materials, tools, and appliances used by it in the Work, and the amount of each class of materials used in each subdivision of the Work.
- 2.12 Contractor to Supply Sufficient Material and Workers. Contractor shall at all times keep on the premises sufficient material and employ sufficient supervision and workers to prosecute the Work at the rate necessary to substantially complete the Work within the time specified in the Contract and in accordance with the Construction Schedule. Contractor shall coordinate the Work of its Subcontractors so that information required by one will be provided by others involved in time for incorporation in the Work in proper sequence and without delay of any materials, devices, or provisions for future Work.

2.13 Construction Plant, Equipment, and Methods.

- 2.13.1 The construction plant and equipment provided by Contractor, and Contractor's methods and organization for handling the Work, shall be such as will secure a good quality of Work and rate of progress that will ensure the completion of the Work within the time specified, in accordance with the Construction Schedule, and without violating city, local, state, or federal environmental regulations during construction.
- 2.13.2 Contractor shall give Metro full information in advance as to Contractor's plans for carrying on any part of the Work. If at any time before the commencement or during the progress of the Work, any part of

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Contractor's plant or equipment, or any of Contractor's methods of executing the Work, appear to Metro to be inadequate to ensure the required quality, environmental protection, or rate of progress of the Work, Metro may order Contractor to increase or improve its facilities or methods, and Contractor shall promptly comply with such orders. Neither compliance with such orders nor failure of Metro to issue such orders shall relieve Contractor from the obligation or liability to secure the quality of Work and the rate of progress required by the Contract. Contractor shall be responsible for overload of any part or parts of structures beyond their safe calculated carrying capacities and for release of pollutants into surrounding waters resulting from Contractor's activities on the Site.

2.13.3 Contractor shall provide temporary utilities pursuant to the Specifications and shall be responsible for the safety and adequacy of its plant, equipment, and methods.

2.14 Permits.

- 2.14.1 The Contractor, without additional expense to Metro, is responsible for obtaining and paying for any necessary fees, licenses, and Permits and for complying with any federal, state, and municipal laws, codes, and regulations applicable to the performance of the Work, unless expressly provided otherwise in other portions of the Contract Documents. Notwithstanding this Section, Metro will submit Contract Documents to the City of Portland and pay all plan check fees and building permit fees.
- 2.14.2 The Contractor understands that preliminary approval of Metro's plans and Specifications by regulatory agencies does not prohibit such agencies from requesting changes in order that the Work complies with the provisions of applicable codes, laws, and regulations. The Contractor agrees that a reasonable number of changes directed by regulatory inspectors is inherent in the nature of construction work and that its Bid includes the costs of making them. The Contractor will bear the expense of complying with the requirements of regulatory inspectors for a reasonable number of changes even if such requirements require different or additional Work than that originally contemplated by the Contract Documents.
- 2.15 Contractor's Temporary Structures. Contractor shall obtain all necessary permits for and shall erect and maintain at its own expense, and remove upon completion of the Work or as ordered by Metro, temporary structures, sheds, barriers, walks, hoisting equipment, scaffolds, etc., as are necessary for the Work pursuant to these Contract Documents. Contractor's temporary structures, equipment, stored materials, stored equipment, etc., shall be located so as not to interfere with the prosecution of the Work. If not so located, they shall be moved by Contractor, as directed by Metro, at no cost to Metro. Contractor's temporary structures, equipment, or materials that obstruct progress of any portion of the Work shall be removed or relocated by Contractor at Contractor's expense.
- **2.16 Compliance with Product Manufacturer's Recommendations.** Unless otherwise directed by the Architect, the Contractor shall perform all Work in accordance with the product manufacturer's recommendations, Specifications, or directions for best results. No predatory step or installation procedure may be omitted unless specifically authorized by the Contract Documents or at the direction of the Architect. Conflicts among manufacturer's directions or the Contract Documents shall be resolved by the Architect.

2.17 Accounting Records.

- 2.17.1 The Contractor and Subcontractors shall maintain all fiscal records relating to this Contract in accordance with generally accepted accounting principles. In addition, Consultant and sub-consultants shall maintain any other records necessary to clearly document:
- 2.17.1.1 The performance of the Contractor, including but not limited to Contractor compliance with Contract plans and Specifications, compliance with fair contracting and employment programs, compliance with Oregon law on the payment of wages and accelerated payment provisions, and compliance with any and all requirements imposed on Contractor or Subcontractor under the terms of the Contract or subcontract:
- 2.17.1.2 Any claims arising from or relating to the performance of Contractor or Subcontractor under this Contract;
 - 2.17.1.3 Any cost and pricing data relating to the Contract; and
 - 2.17.1.4 Payments made to all suppliers and sub-consultants.
 - 2.17.1.5 The records described in this Section 2.17.1 are the Contract Records.
- 2.17.2 The Contractor and Subcontractors shall maintain the Contract Records for the longer period of (a) six years from the date of final completion of the Contract to which the Contract Records relate or (b) until the conclusion of any audit, controversy, or litigation arising out of or related to the Contract.
- 2.17.3 The Contractor and Subcontractors shall make Contract Records available to Metro and its authorized representatives, including but not limited to the staff of any Metro department and the staff of Metro's Auditor, within the boundaries of the Metro region, at reasonable times and places regardless of whether litigation has been filed on any claims. If the Contract Records are not made available within the boundaries of Metro, the Contractor or Subcontractor agrees to bear all of the costs for Metro employees, and any necessary consultants hired

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by Metro, including but not limited to the costs of travel, per diem sums, salary, and any other expenses that Metro incurs in sending its employees or consultants to examine, audit, inspect, and copy those records. If Contractor elects to have such Contract Records outside these boundaries, the costs paid by Contractor to Metro for inspection, auditing, examining, and copying those records shall not be recoverable costs in any legal proceeding.

- 2.17.4 The Contractor and Subcontractors authorize and permit Metro and its authorized representatives, including but not limited to the staff of any Metro department and the staff of Metro Auditor, to inspect, examine, copy, and audit the books and records of Contractor or Subcontractor relating to this Contract, including tax returns, financial statements, other financial documents, and any documents that may be placed in escrow according to any Contract requirements. Metro shall keep any such documents confidential to the extent permitted by Oregon law.
- 2.17.5 The Contractor and Subcontractors agree to disclose the Contract Records requested by Metro and agree to the admission of such records as evidence in any proceeding between Metro and Contractor and Subcontractors, including but not limited to a court proceeding, arbitration, mediation, or other alternative dispute resolution process.
- 2.17.6 The Contractor and Subcontractors agree that in the event such Contract Records or any audit disclose that Metro is owed any sum of money or establish that any portion of any claim made against Metro is not warranted, Contractor and Subcontractors shall pay all costs incurred by Metro in conducting the audit and inspection. Such costs may be withheld from any sum that is due or that becomes due from Metro.
- 2.17.7 Failure of the Contractor or Subcontractors to keep or disclose Contract Records as required by this Contract or any solicitation document may result in debarment as a bidder or proposer for future Metro contracts as provided in ORS 279B.130 and Metro Code Section 2.04.070(c), or may result in a finding that the Contractor or Subcontractor is not a responsible bidder or proposer as provided in ORS 279B.110 and Metro Code Section 2.04.052.

ARTICLE 3 ADMINISTRATION OF THE CONTRACT

- 3.1 Authority and Relationships of Metro and Architect. Except as specifically provided in this Section, no individual other than the Metro Chief Operating Officer or the Project Manager, duly appointed as set forth below, shall have any authority to make representations, statements, or decisions of whatever nature binding Metro or Architect regarding any aspect of this Contract. Except as specifically provided in this Article, Contractor shall have no right to, and shall not rely on, any such representation, statement, or decision. Any reference to action by Metro in this Contract requires the written approval of the Metro Chief Operating Officer or the Project Manager designated in writing by the Metro Chief Operating Officer as having authority to act for Metro, but only to the extent that such authority is expressly delegated in writing.
- **3.2 Authority of Metro.** The Work must be performed to the complete satisfaction of the Project Manager.
- 3.2.1 The decision of the Project Manager will be final, binding, and conclusive on the Contractor on all questions that arise regarding the quantity of materials and Work, the quality of materials and Work, the acceptability of materials furnished and Work performed, the acceptable rate of progress of the Work, the interpretation of the plans and Specifications, the measurement of all quantities, the acceptable fulfillment of the Contract on the part of the Contractor, and payments under the Contract.
- 3.2.2 Work will not be considered completed until it has passed final inspection by the Project Manager and is accepted by Metro. The authority of the Project Manager is such that the Contractor must at all times carry out and fulfill the instructions and directions of the Project Manager insofar as they concern the Work to be done under the Contract.
- 3.2.3 If the Contractor fails to comply with any reasonable order made under the provisions of this Section, the Project Manager may cause unacceptable Work to be remedied or removed and replaced, and unauthorized Work to be removed, and to deduct the costs thereof from any money due or to become due to the Contractor.
 - 3.2.4 The Project Manager has the authority to suspend Work for cause as set forth in Section 3.5.
- 3.2.5 Metro may call for meetings of Contractor, Contractor's Subcontractors, and Suppliers as Metro deems necessary for the proper supervision and inspection of the Work. Such meetings shall be held at the Site on regular working days during regular working hours, unless otherwise directed by Metro. Attendance shall be mandatory for all Parties notified to attend.

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- 3.2.6 Nothing in this Section or elsewhere in the Contract is to be construed as requiring the Project Manager to direct or advise the Contractor on the method or manner of performing any Work under the Contract. No approval or advice as to the method or manner of performing or producing any materials to be furnished constitutes a representation or warranty by Metro that the result of such method or manner will conform to the Contract, relieve the Contractor of any of the risks or obligations under the Contract, or create any liability to Metro because of such approval or advice.
- 3.2.7 An Architect, Engineer, designer, or other person hired by Metro under a separate contract is not the Project Manager, unless the Contract Documents expressly state otherwise. The Contractor will be notified in writing if the Project Manager is to be changed.
- 3.2.8 Contractor has no right to and shall not rely on representations of whatever nature made by any individual, whether or not employed by or purporting to represent Metro, unless such individual has been specifically and expressly delegated authority to make such representations pursuant to these Contract Documents. Likewise, Contractor has no right to and shall not rely on any representations of authorized changes in the Contract of whatever size or nature unless such change is in writing and signed by Metro.
- 3.2.9 Nothing contained in this Section shall obligate Metro or Architect to supervise Contractor's Work under this Contract, and Contractor shall remain fully responsible for the complete and proper supervision of all of the Work.
- **3.3** Request for Information. If the Contractor believes that the Work to be done or any of the matters relative to the Contract Documents are not sufficiently detailed or explained in the Contract Documents, or if the Contractor has any questions as to the meaning or intent of the Contract Documents, Contractor shall immediately submit to Architect and Metro a written Request for Information ("RFI") that shall fully describe the information sought.
- 3.3.1 The RFI shall be directed to the Project Manager and Architect. Subcontractors shall direct correspondence through the Contractor to the Project Manager and Architect. At a minimum the RFI shall contain: (1) project title, (2) identify the nature and location of each clarification/verification, (3) date, (4) response by and RFI number, (5) subject, (6) initiator of the question, (7) indication of the costs, (8) Contract drawings reference, (9) Contract Specification section, and (10) descriptive text and space for a reply. Each RFI shall be numbered sequentially beginning with #001, and a separate RFI shall be submitted for each item. Verbal discussions/clarifications for minor items can be addressed with the Architect by phone and the Contractor shall follow up with a confirming RFI.
- 3.3.2 It is Contractor's responsibility to request information under this Section in sufficient time for review by the Architect and Metro so that the orderly progress and prosecution of the Work is not delayed.
- 3.3.3 The Architect, in consultation with Metro, shall interpret the meaning and intent of the Contract Documents and shall issue, within five (5 working days of receiving an RFI from Contractor, a written Clarification describing such meaning and intent. Additionally, the Architect, after consulting with Metro, may at any time issue a written RFI as deemed necessary to carry out the Work included in the Contract Documents. Notwithstanding any dispute or disagreement that Contractor may have concerning any such RFI, Contractor shall perform the Work as prescribed and in accordance with all such RFI.
- 3.3.4 If notified by Metro or the Architect that an RFI is forthcoming, any related Work done before the receipt of the RFI shall be coordinated with Metro so as to minimize the effect of the RFI on Work in progress. Any related Work not coordinated with Metro or the Architect done before receipt of the RFI shall be at Contractor's risk and at no cost to Metro if that Work does not conform to the Clarification.
- 3.3.5 If Contractor proceeds with Work that is not sufficiently detailed or explained in the Contract Documents without requesting and obtaining an RFI pursuant to this Section, Contractor shall do so at its own risk and shall, at no cost to Metro, perform any additional Work that may be required by Metro to bring the Work into conformance with the intent of the Contract Documents.

3.4 Contractor's Claims.

- 3.4.1 <u>Generally</u>. No claim by Contractor shall be considered or allowed under this Contract except as specifically provided and prescribed under this Section. Failure to make a claim as specifically prescribed by this Section or failure to perform disputed Work, if any, as directed by Metro shall bar Contractor from any recovery or extension of time resulting from the facts surrounding the claim. Contractor's full and complete compliance with this Section shall be a condition precedent to any right of Contractor to further prosecute any claim against Metro arising out of or related to Work described in the Contract Documents. Every decision and action of Metro shall be considered final unless Contractor makes a claim concerning such decision or action pursuant to this Section.
 - 3.4.2 <u>Types of Claims</u>. Contractor claims are limited to the following: 3.4.2.1 Claims based on Excusable Delays as described in Section 3.4.3.

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3.4.2.2 Claims based on differing Site conditions as described in Section 3.4.4;

3.4.2.3 Claims based on Clarifications or Change Orders issued by Metro or any other decision, action, or failure to act by Metro as described in Section 3.4.5.

3.4.3 Claims For Excusable Delays.

3.4.3.1 <u>Definition of Excusable Delay.</u> A Delay is "Excusable" if such act, event, or condition has a materially adverse effect on the ability of Contractor to perform its obligations under this Contract as scheduled, and/or materially increases the cost to Contractor to perform such obligations as scheduled and if such act, event, or condition and its effect:

3.4.3.1.1 Are beyond the reasonable control of Contractor (or any third party for

whom Contractor is directly responsible); and

3.4.3.1.2 Do not arise out of (a) strikes, labor disputes, or other labor difficulties

involving Contractor or its Subcontractors or Suppliers or entities providing transportation to Contractor or its Subcontractors or Suppliers; (b) labor shortages; or (c) changing economic conditions; and

3.4.3.1.3 Could not have been reasonably anticipated by Contractor.

3.4.3.2 <u>Types of Excusable Delay Claims</u>. Excusable Delays are either Compensable or Non-compensable. Claims for Non-compensable Excusable Delays are limited to claims for extension of Contract Time. Contractor may claim both an increase in the Contract Amount and an extension of the Contract Time for Compensable Excusable Delays.

3.4.3.3 <u>Non-Compensable Excusable Delay Claims</u>. Delays resulting from the following acts, events, and conditions are Non-Compensable Excusable Delays:

3.4.3.3.1 An Act of God.

3.4.3.3.2 Unusually Persistent Severe Weather. No claim for extension of the Contract Time will be considered for Unusually Persistent Severe Weather unless Contractor submits documentation within 72 hours of the occurrence of the Unusually Persistent Severe Weather satisfactory to Metro establishing that the weather at the Project Site satisfied the definition of Unusually Persistent Severe Weather and that the delay could not have been avoided by either rescheduling the Work or implementing reasonable measures to protect against the weather so that the Work could proceed.

3.4.3.3.3 Acts of a public enemy, war (whether or not declared), or governmental intervention resulting therefrom, blockage, embargo, insurrection, riot, or civil disturbance.

3.4.3.3.4 The failure to issue or renew, or the suspension, termination, interruption, or denial of, any permit, license, consent, authorization, or approval essential to the Work, if such act or event is not the result of the willful or negligent action or inaction of Contractor or of any third party for whom Contractor is directly responsible, and if Contractor is taking, has taken, or will cause to be taken, all reasonable actions in good faith to contest such action (it being understood that the contesting in good faith of any such action shall not constitute or be construed as a willful or negligent act of Contractor).

3.4.3.3.5 The failure of any appropriate federal, state, municipal, county, or other public agency or authority or private utility having operational jurisdiction over the Work or Site to provide and maintain utilities, services, water and sewer lines, and power transmission lines to the Site, that are required for and essential to the Work.

3.4.3.3.6 Epidemics or quarantines.

3.4.3.3.7 Material, equipment, or fuel shortages or freight embargoes.

3.4.3.3.8 Priorities or privileges established for the manufacture, assembly, or

allotment of material by order, decree, or otherwise of the U. S. or by any department, bureau, commission, committee, agent, or administrator of any legally constituted public authority.

3.4.3.4 <u>Compensable Excusable Delay Claims</u>. Delays resulting from the following acts, events, and conditions are Compensable Excusable Delays:

3.4.3.4.1 Changes in the Work ordered by Metro if they require additional time to complete the Work and adversely impact the Critical Path.

3.4.3.4.2 The prevention by Metro of Contractor from commencing or

prosecuting the Work.

3.4.3.4.3 Failure by the Architect to respond to a Request for Information within five (5) working days of submittal by the Contractor.

3.4.3.5 <u>Inexcusable Delays</u>. Delays resulting from the following acts, events, and conditions shall not result in Excusable Delays:

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3.4.3.5.1 Any delay that could have been avoided by the exercise of care, prudence, foresight, and diligence on the part of Contractor.

3.4.3.5.2 Any delay in the prosecution of parts of the Work that may in itself be unavoidable but that does not necessarily prevent or delay the prosecution of other parts of the Work nor the Substantial Completion of the Work of this Contract within the time specified.

3.4.3.5.3 Any reasonable delay resulting from the time required by Metro for review of submittals or shop drawings submitted by Contractor and for the making of surveys, measurements, and inspections.

3.4.3.5.4 Any delay arising from an interruption in the prosecution of the Work on account of the reasonable interference from Other Metro Contractors that does not necessarily prevent the Substantial Completion of the Work of this Contract within the time specified.

3.4.3.5.5 Any delay resulting in any manner from labor disputes, strikes, or difficulties or any delay resulting in any manner from any labor-related event, act, or condition whether or not Contractor has any control over such event, act, or condition.

3.4.3.5.6 Any delays in delivery of equipment or material purchased by Contractor or its Subcontractors or Suppliers (including Metro-selected equipment. Contractor shall be fully responsible for the timely ordering, scheduling, expediting, delivery, and installation of all equipment and materials.

3.4.3.6 <u>Excusable Delay Claims Procedure</u>.

3.4.3.6.1 Contractor shall, within forty-eight (48) hours of the start of the occurrence or Contractor's first knowledge of the occurrence that is the basis of the claim for Excusable Delay, whichever is earlier, notify Metro in writing of such delay. The written notice by Contractor shall indicate the cause of the delay and shall estimate the possible time extension requested. Within ten (10) days after the cause of the delay has been remedied, Contractor shall give written notice to the Project Manager of any actual time extension and, if the Excusable Delay is a Compensable Excusable Delay, any increase in the Contract Amount requested as a result of the aforementioned occurrence in accordance with this Contract. If Contractor believes that a single circumstance or set of facts gives rise to both a claim for an extension to the Contract Time and an increase in the Contract Amount, Contractor must state both such allegations in one written claim or waive the unstated allegation.

3.4.3.6.2 Submission of timely written notice as specified above shall be mandatory and failure to comply shall be a conclusive waiver to any claim for Excusable Delay by Contractor. Oral notice or statement will not be sufficient.

3.4.3.6.3 Within twenty-one (21) days after Contractor submits to the Project Manager such a written notice for an extension of Contract Time and/or increase in the Contract Amount, the Project Manager will issue the decision on each request. If Contractor is dissatisfied with such decision, Contractor may preserve its claim as provided and prescribed by Section 3.4.6.

3.4.4 Claims for Differing Site Conditions-- Contractor shall promptly, and before the conditions are disturbed, give written notice to the Project Manager of (i) subsurface or latent physical conditions at the Site that differ materially from those indicated in this Contract, or (ii) physical conditions at the Site that were unknown and not reasonably discoverable by means of the Review of Project Conditions required by Section 2.7, are of an unusual nature that differ materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract. The Project Manager shall investigate the Site conditions promptly after receiving the notice. If the conditions do materially so differ as to cause an increase or decrease in Contractor's cost of, or the time required for, performing any part of the Work under this Contract, whether or not changed as a result of the conditions, an equitable adjustment shall be made and a Change Order issued. If Contractor is dissatisfied with the decision of the Project Manager under this Section, Contractor may preserve its claim as provided and prescribed by Section 3.4.6.

3.4.5 Other Contractor Claims-- Contractor claims based on Clarifications or Change Orders issued by Metro or any other decision, action, or failure to act by Metro shall be made according to this Section.

3.4.5.1 Contractor shall, within forty-eight (48) hours following discovery of the facts that give rise to its claim, notify the Project Manager in writing of its intent to make the claim. Within ten (10) days following discovery of the facts that give rise to its claim and prior to commencing the Work or conforming to the Clarification on which the claim is based, if any, Contractor shall submit its formal written claim to the Project Manager. Contractor's formal claim shall include a description of:

3.4.5.1.1 The factual occurrences upon which Contractor bases the claim including the decision, action, or failure to act by Metro or its authorized representatives that allegedly give rise to the claim;

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3.4.5.1.2 How Metro's decision, action, or failure to act has affected Contractor's performance or otherwise affected Contractor;

3.4.5.1.3 Whether the claim is for an extension in the Contract Time or increase in the Contract Amount, or both, and the specific extension or increase requested;

3.4.5.1.4 The provisions of the Contract upon which the claim is based. Submission of written notice of intent to make a formal claim as specified above

3.4.5.2 Submission of written notice of intent to make a formal claim as specified above shall be mandatory and failure to comply shall be a conclusive waiver to any claim by Contractor. Oral notice or statement will not be sufficient nor will notice or statement after commencing the Work in question.

3.4.5.3 After the written notification is submitted by Contractor (if the claim is not resolved or withdrawn in writing) and only upon written direction by the Project Manager, Contractor shall proceed without delay to perform the Work pursuant to the direction of the Project Manager. While the Work on an unresolved claim is being performed, Contractor shall keep track of costs and maintain records in the manner set forth in the section on Force Account Work, at no cost to Metro. Such notice by Contractor and the fact that Contractor is keeping track of costs and maintaining records shall not in any way be construed as proving the validity of the claim nor the costs thereof.

3.4.5.4 Provided the claim or claims have been submitted in accordance with the requirements of this Section, the Project Manager will consider and investigate the claim or claims of Contractor. Within twenty-one (21) days of receipt of the above-described written notification of claim, the Project Manager will advise Contractor of the Project Manager's decision to accept or reject the claim or claims, in full or in part. If Contractor is dissatisfied with the decision of the Project Manager under this Section, Contractor may preserve its claim as provided and prescribed by Section 3.4.6.

3.4.6 Preservation of Claims -- Within thirty (30) days after a rejection of a claim, in whole or in part, by Metro under Sections 3.4.3, 3.4.4 or 3.4.5, Contractor may preserve its claim by submitting a fully documented claim package to the Metro Procurement Officer. That package shall include substantiating documentation with an itemized breakdown of Contractor and Contractor's Subcontractors' costs on a daily basis that shall include but not be limited to labor, material, equipment, supplies, services, Overhead, and Profit. All documentation that Contractor believes is relevant to the claim shall be provided in the claim package, including without limitation payroll records, purchase orders, quotations, invoices, estimates, correspondence, profit and loss statements, daily logs, ledgers, and journals. Failure to submit the claim package in full compliance with this requirement and/or maintain cost records as herein required will constitute a waiver of the claim. If Contractor elects to pursue any claims by filing a lawsuit against Metro, it must commence such lawsuit within six (6) months after the date of Substantial Completion. Failure to commence a lawsuit within this time limitation shall constitute a waiver of all such claims by Contractor.

3.5 Metro's Right to Stop, Perform, or Delete Work.

- 3.5.1 If the Contractor fails to correct Work not in conformance with the Contract or fails to carry out Work in accordance with the Contract, Metro may issue a written order to the Contractor to stop all or part of the Work until the deficiency set forth in the order has been corrected. Metro has no duty to exercise this right for the benefit of anyone other than Metro.
- 3.5.2 If the Contractor refuses or fails to comply with the Contract, Metro may correct any deficiency or defect or perform Work that the Contractor has failed to perform, or take other appropriate action, without prejudice to any other remedy Metro may have under the Contract. Before taking that action, Metro will provide the Contractor and its sureties with seven days' written notice of its intentions, unless an emergency or dangerous condition exists, in which case the action may be taken without notice. If Metro performs part of the Contractor's Work, corrects deficiencies, or is required to take action as a result of an emergency or dangerous condition, Metro will deduct the cost of that action from any payment then or thereafter due the Contractor. If the cost of Metro's action exceeds any sums held by Metro and otherwise payable to the Contractor, the Contractor agrees to reimburse Metro for any excess costs.
- 3.5.3 Metro has the right to delete Work from this Contract, and the Parties agree that such action does not constitute a breach of contract. Therefore, Metro may delete Work from the Contract and perform it with its own forces or have such Work performed by another Contractor. If Work is deleted from the Contract, the cost of performing such Work will be deducted from the Contract Amount to be paid to the Contractor. Any objection to the change in Contract Amount must be processed as a claim as required by Section 3.4.5.
- 3.5.4 Metro's rights as stated in this Section 3.5 are in addition to and do not limit Metro's other rights or remedies.

3.6 Metro's Right to Adjust Payments.

3.6.1 <u>Adjusted Payments for Delay</u>. Time is of the essence in this Contract. Metro and Contractor understand and agree that Metro will be damaged if Contractor fails to substantially complete the Work within the

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Contract Time, and that Metro will be vulnerable to further damages if Metro is obligated to continue paying Contractor for Work performed after the Contract Time has expired. It is therefore agreed that upon the expiration of the Contract Time, Metro may adjust its payments to Contractor by any combination of the following: (1) making no further payments to Contractor until the Work is substantially complete; (2) paying the Subcontractor costs incurred by Contractor without any overhead, profit, or fee of any kind going to Contractor; and/or (3) collection of liquidated damages as designated in the Contract. Permitting Contractor to continue and finish the Work or any part thereof after the Contract Time has expired shall not waive any of Metro's rights under this Section or the balance of the Contract Documents.

- Adjusted Payments Not a Bar to Metro's Right to Other Damages. Payment of adjusted payments shall not release Contractor from obligations in respect to the complete performance of the Work, nor shall the payment of such adjusted payments constitute a waiver of Metro's right to collect any additional adjusted payments that it may sustain by failure of Contractor to fully perform the Work, it being the intent of the Parties that the aforesaid adjusted payments be full and complete payment only for failure of Contractor to complete the Work on time. Metro expressly reserves the right to make claims for any and all other damages that Metro may incur due to Contractor's failure to perform in strict accordance with this Contract.
- Mediation. Both Parties shall endeavor to negotiate resolutions to all disputes arising out of this Contract. Any controversy or claim arising out of or relating to this Contract that remains unresolved after such negotiations shall be submitted to mediation prior to the commencement of litigation.
- 3.7.1 The mediator shall be an individual mutually acceptable to both Parties. Should the Parties disagree on the selection of a mediator, the Parties shall look to the local circuit court or the Oregon Dispute Resolution Commission. Each Party shall pay its own costs for the time and effort involved in mediation. The cost of the mediator shall be split equally between the two Parties.
- 3.7.2 Both Parties agree to exercise their best effort in good faith to resolve all disputes in mediation. Participation in mediation is a mandatory requirement on both Metro and Contractor. The schedule and time allowed for mediation shall be mutually acceptable. The mediation process is nonbinding.
- 3.7.3 Contractor agrees to consolidation of any mediation between Metro and Contractor with any other mediation involving, arising from, or relating to this Contract.
- Litigation. All disputes not resolved by mediation shall be decided exclusively by a court of competent jurisdiction in Multnomah County under the laws of the state of Oregon.
- Work to Continue Notwithstanding Dispute. In no event shall submission of a dispute arising out of this Contract by either Party relieve Contractor of its obligation to fully perform the requirements of the Contract as directed by Metro pending resolution of the dispute pursuant to the procedures set forth in this Article. In the event Contractor, in Metro's opinion, fails to fully perform the requirements of the Contract pending resolution of a dispute, Metro shall be entitled to exercise its rights to impose adjusted payments pursuant to Section 3.6, and/or terminate the Contract pursuant to Article 15 of these General Conditions.

ARTICLE 4 SUBCONTRACTING AND ASSIGNMENT OF THE CONTRACT

- 4.1 Subcontracting. Contractor shall arrange and delegate its Work in conformance with trade practices and union regulations, if applicable, but shall remain responsible to Metro for performance of all Work required or implied by the Contract Documents. Contractor shall also be responsible for coordinating the efforts of its Subcontractors and Suppliers.
- Objection to Subcontractors or Suppliers. Metro reserves the right to make reasonable objection to any of Contractor's Subcontractors or Suppliers if Metro discovers any data or information at any time during the performance of the Contract that gives Metro a basis for such reasonable objection. Metro will notify Contractor in writing if Metro has any reasonable objection to any of Contractor's Subcontractors or Suppliers. Contractor shall not subcontract with any Subcontractor or Supplier to which Metro has made a reasonable objection. In the event of Metro's reasonable objection to any Subcontractor or Supplier, Contractor shall propose another entity to which Metro has no reasonable objection.
- Substitution, Change, or Addition of Subcontractors or Suppliers. At any time that Contractor intends to substitute, change, or add a Subcontractor or Supplier during the performance of the Contract, Contractor shall give Metro prior written notice of such intention. Contractor shall not substitute, change, or add any such Subcontractor or Supplier if Metro gives Contractor reasonable objection in writing within ten (10) days after Metro receives such notice.

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- **4.4** Removal of Subcontractors at Request of Metro. When any Subcontractor fails to prosecute a portion of the Work in a satisfactory manner, Metro may so notify Contractor. If the Subcontractor fails to cure the unsatisfactory Work promptly, Contractor shall remove such Subcontractor immediately upon written request of Metro and Contractor shall request approval from Metro of a new Subcontractor to perform this section of the Work at no increase in the Contract Amount, and with no change in the Contract Time.
- 4.5 Metro Not Obligated to Detect Unsatisfactory Work. Nothing contained in this Contract shall obligate Metro or place on Metro an affirmative duty to detect or discover unsatisfactory Work or materials of Contractor's Subcontractors or Suppliers. Failure of Metro to detect or discover such unsatisfactory Work or materials shall not relieve Contractor of any of its obligations under this Contract.
- 4.6 No Contractual Relationships Between Metro and Contractor's Subcontractors and Suppliers.

 Nothing contained in this Contract is intended nor shall be construed to create any contractual or third party beneficiary relationship between Metro and any of Contractor's Subcontractors, Suppliers, or agents, save and except in relation to the Labor and Materials Payment Bond.

4.7 Contractor's Agreements with Subcontractors.

- 4.7.1 Contractor shall provide in all subcontract and supply agreements that the Subcontractor or Supplier will be bound by the terms and conditions of this Contract to the extent that they relate to the Subcontractor's or Supplier's Work. Contractor shall require each Subcontractor to enter into similar agreements with sub-tier Subcontractors and Suppliers. Contractor shall make available to each proposed Subcontractor and Supplier, prior to the execution of the subcontract or supply agreement, copies of the Contract Documents that apply to the Work and materials to be provided by the Subcontractor or Supplier. Subcontractors and Suppliers shall similarly make copies of applicable portions of such documents available to their respective proposed sub-tier Subcontractors and Suppliers.
- 4.7.2 All Subcontractor and Supplier agreements shall also provide that they are assignable to Metro at Metro's option, in the event that Metro terminates the Contract. Contractor will provide to Metro a copy of all subcontracts and supply contracts for permanent materials.
- 4.7.3 The Contractor will provide Metro with copies of all of its subcontracts, purchase orders, and supply agreements relating to the Work upon Metro's request within three (3) business days of the request.
- **4.8 Assignment.** Contractor shall constantly give its personal attention to the faithful prosecution of the Work. Contractor shall keep the Work under its personal control and shall not assign any or all of Contractor's rights, by power of attorney or otherwise, nor delegate any of its duties except with the prior written approval of the Metro Council.

ARTICLE 5 TIME OF COMPLETION AND SCHEDULE FOR THE WORK

5.1 Prosecution of Work Generally. Contractor shall commence the Work within five (5) days after issuance of written Notice to Proceed from Metro and will diligently prosecute the Work to its Final Completion and Acceptance. The start of Work shall include attendance at preconstruction conferences, preparation and submittal of shop drawings, equipment lists, Schedule of Values, CPM construction schedules, requests for substitutions, and other similar activities, as described by these Contract Documents.

5.2 Time of Completion.

- 5.2.1 Contractor shall bring the Work to Substantial Completion within the Contract Time as set forth in the Construction Agreement.
- 5.2.2 The time limits stated in these Contract Documents are of the essence of this Contract. By executing the Construction Agreement, Contractor confirms that the Contract Time is a reasonable period for performing all of the Work.
- 5.2.3 Failure of Contractor to substantially complete the Work within the Contract Time and according to the provisions of these Contract Documents shall subject Contractor to liquidated damages pursuant to the applicable sections of these Contract Documents.
- **5.3 Extensions of Time.** Extensions of the Contract Time shall be made pursuant to the procedure and according to the provisions and requirements contained in Articles 3 and 8 of these Contract Documents.
- **5.4 Project Scheduling.** Contractor shall submit to Metro a detailed Construction Schedule for completion of the Work pursuant the Specifications following the Critical Path method. The Construction Schedule shall, when approved and as updated and approved by Metro, become a part of the Contract Documents.
 - 5.5 Use of Completed Parts of the Work Before Acceptance.
- 5.5.1 Metro may decide to use part of the Work that has been completed before completion of all the Work required by the Contract. If that occurs, Metro will notify the Contractor in writing of its intention.

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5.5.2 When use of part of the Work by Metro begins, the Contractor is:

5.5.2.1 Relieved of the duty of maintaining and protecting that portion of the Work, provided that it has been completed in accordance with the Contract.

5.5.2.2 Relieved of responsibility for injury or damage to the portion of Work used by Metro from use by public traffic or from the action of the elements of nature or from any other cause, except injury or damage resulting from the Contractor's own operations or from its negligence.

5.5.2.3 Relieved of the responsibility of cleaning up that portion of the Work before final acceptance, unless the Contractor's own operations require such cleanup.

5.5.3 Use by Metro of a part of the Work as described in this Section does not constitute final acceptance of the Work as a whole or in any part.

ARTICLE 6 COORDINATION WITH OTHER METRO CONTRACTORS

- 6.1 Other Metro Contractors Generally. Metro reserves the right to award other contracts in connection with the Work. Contractor shall allow such Other Metro Contractors reasonable opportunity for storage of their materials and execution of their Work, shall ensure that the execution of Contractor's Work properly connects and coordinates with Work of all Other Metro Contractors, and shall cooperate with Other Metro Contractors to facilitate the Work in such a manner as Metro may direct. Connection between the Work of the Contractor and Other Metro Contractors will be the responsibility of the Party that is last in time to construct, unless otherwise directed in the Contract Documents.
- 6.2 Duty to Inspect Other Metro Contractors' Work. Where Contractor's Work is associated with that of Other Metro Contractors, or is to interface in any way with such Other Metro Contractors' Work, Contractor shall examine, inspect, and measure the adjacent or in-place Work of such Other Metro Contractors. If Contractor determines that any defect or condition of such adjacent or in-place Work will impede or increase the cost of Contractor's performance or otherwise prevent the proper execution of Contractor's Work, Contractor shall immediately, and before performing any Work affected by the Other Metro Contractors' work, submit an RFI to Metro pursuant to Section 3.3. If Contractor proceeds without examining or inspecting the Work and submitting a Request for Information, Contractor shall be held to have accepted the Other Metro Contractors' Work or material and the existing conditions, shall be responsible for any defects in Contractor's Work resulting therefrom, and shall not be relieved of any obligation or any warranty under this Contract because of any such condition or imperfection. This provision shall be included in any and all of Contractor's subcontracts for Work to be performed.
- **6.3** Latent Defects in Other Contractor's Work. Section 6.2 does not apply to latent defects. Contractor shall report latent defects in any Other Metro Contractors' Work at any time such defects become known or Contractor should have known, and Metro shall promptly thereafter take such steps as may be appropriate. If Contractor in the exercise of reasonable care should have known of such defects but did not report them, such defects shall not be considered latent.
- **6.4 Duty to Maintain Schedule.** It shall be the responsibility of Contractor to maintain its schedule so as not to delay the progress of the Project or the Work of Other Metro Contractors. Contractor is required to cooperate in every way possible with Other Metro Contractors. Except as otherwise specifically provided in this Contract, no additional compensation will be paid for such cooperation. If Contractor delays the progress of the Project or the progress of Other Metro Contractors, it shall be the responsibility of Contractor to take all of the steps necessary to bring the affected Work into compliance with any affected schedules and to indemnify Metro from all liability for such delays pursuant to Article 11. Metro shall be under no duty to monitor or detect any delays of Contractor or any Other Metro Contractor on the Project or any lack of coordination on the Project. Consequently, the failure of Metro to so monitor or detect shall not be construed as relieving Contractor of its duties to fully perform all of its obligations under the Contract.

6.5 Failure to Maintain Schedule.

6.5.1 If, in the opinion of Metro, Contractor falls behind the Construction Schedule or delays the progress of Other Metro Contractors and is not entitled to an extension of time pursuant to the Contract Documents, Contractor shall perform all steps that are necessary, in the opinion of Metro, to bring Contractor's Work into compliance with the Construction Schedule or to remedy any delay to the progress of Other Metro Contractors. Contractor shall submit operation plans to Metro that shall fully demonstrate the manner of intended compliance with this Section. The steps referred to above shall include but not be limited to:

6.5.1.1 Increased manpower in such quantities and crafts as will substantially eliminate the

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- 6.5.1.2 Increase, when permitted, the number of working hours per shift, shifts per working day, working days per week, or the amount of equipment or any combination of the foregoing, sufficient to eliminate the backlog of Work.
- 6.5.1.3 Reschedule activities to achieve maximum practical concurrence of accomplishment of activities.
 - 6.5.1.4 Expedite delivery of materials and equipment, such as use of airfreight.
- 6.5.2 If Metro directs Contractor to take measures described in this Section, or if Contractor takes such measures without direction from Metro, Contractor shall bear all costs of complying. Metro shall, however, reimburse Contractor for reasonable costs of complying if such directive to accelerate from Metro was issued to overcome delay caused by the acts or omissions of Metro or persons acting for Metro, provided Contractor has complied with all applicable provisions of Articles 3 and 8 of these General Conditions.
- 6.5.3 Failure to maintain the construction schedule or to take action to regain the schedule or to furnish a schedule as outlined in the Specifications may result in withholding all or part of the monthly progress payments.
- **6.6 Failure to Coordinate Work.** If Contractor fails to coordinate its Work with the Work of Other Metro Contractors as directed by Metro, Metro may, upon written notice to Contractor:
- 6.6.1 Withhold any payment otherwise due hereunder until Contractor complies with Metro's directions.
- 6.6.2 Direct others to perform portions of the affected Work and charge the cost of such Work against the Contract Amount or deduct the cost from sums held in Retainage.
- 6.6.3 Terminate any or all portions of the Work for Contractor's failure to perform in accordance with the Contract.
- **6.7** Other Metro Contractors' Failure to Coordinate. If Contractor determines that any Other Metro Contractor on this Project is failing to coordinate its Work with the Work of Contractor, Contractor shall notify Metro immediately and before performing any affected Work.
- **6.8 Conflicts Among Contractors.** Any difference or conflict that may arise between Contractor and Other Metro Contractors in regard to their Work shall be adjusted as determined by Metro. If directed by Metro, Contractor shall suspend any part of the Work specified or shall carry on the same in such a manner as may be prescribed by Metro when such suspension or prosecution is necessary to facilitate the Work of Other Metro Contractors.
- **6.9** Coordination Drawings. Contractor shall prepare coordination drawings as determined necessary by Metro to satisfactorily coordinate and interface its Work with the Work of all Other Metro Contractors, thereby avoiding conflicts that may arise.
 - 6.10 Furnished by Owner, Installed by Contractor ("FOIC") Items.
- 6.10.1 Owner Responsibilities for FOIC Items. Owner-furnished products/items are indicated on the drawings as FOIC items. Owner's responsibilities include: (1)arrangement for and delivery of necessary shop drawings, product data, and samples to the contractor; (2) arrangement of and payment for Product delivery to the Site; (3) delivery of Suppliers' bill of materials to Contractor; (4) inspection of deliveries jointly with the Contractor and recording shortages of and damaged or defective items; (5) submission of claims for transportation damage; (6) arrangement for replacement of damaged, defective, or missing items; and (7) arrangement for manufacturers' warranties, bonds, service, and inspections as required. Owner is responsible for scheduling all FOIC items in accordance with Contractor's Construction Schedule.
- 6.10.2 Contractor Responsibilities for FOIC Items. The following outlines the responsibilities of the Contractor for FOIC items: (1) designating a delivery date for each item in the Construction Schedule; (2) reviewing shop drawings, product data, and samples; (3) immediately notifying the Project Manager of any discrepancies or problems anticipated in the use of the product; (4) reviewing and unloading products at the Site; (5) promptly inspecting products jointly with Owner and recording shortages and damaged or defective items; (6) handling products at the Site, including uncrating and storage; (7) protecting products from exposure to elements and damage; (8) assembling, installing, connecting, adjusting, and finishing product as stipulated in the Specifications; and (9) repairing or replacing items damaged by Contractor.
- **6.11 Conferences.** At any time during the progress of the Work, Metro shall have authority to require Contractor to attend any conference of any or all of the Contractors engaged in the Project or related projects.
- 6.11.1 <u>Project Meetings</u>. The Contractor will schedule and chair meetings and conferences at the Project Site unless otherwise indicated. Contractor will inform participants and other individuals whose presence is required of the date and time of each meeting. The Contractor shall prepare an agenda, distribute to all attendees, and

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prepare minutes that reflect significant discussions and agreements achieved. Meeting minutes shall be distributed to everyone concerned, including Metro, within three (3) days of the meeting.

- 6.11.2 <u>Pre-construction Conference</u>. The Contractor will schedule a pre-construction conference prior to start of construction. The meeting will be scheduled at a time convenient to Metro and Architect, but no later than five (5) days after execution of the Contract. The conference will be held at the Project Site or another convenient location. The purpose of the meeting is to review responsibilities and personnel assignments. Attendees will include authorized representatives of Metro, Architect and its consultants, Contractor and its superintendent, major subcontractors and suppliers, and other concerned parties. All participants shall be familiar with the Project and be authorized to conclude matters relating to the Work. The agenda shall include tentative construction schedule, phasing, critical Work sequencing and long-lead items, designation of key personnel and their duties, procedures for processing field decisions and Change Orders, procedures for RFIs, procedures for testing and inspecting, procedures for processing applications for payment, distribution of Contract Documents, submittal procedures, preparation of record documents, use of premises, Work restrictions, Owner's occupancy requirements, responsibilities for temporary facilities and Site protection, construction waste management and recycling, parking availability, office, Work, and storage areas, equipment deliveries and priorities, first aid, security, progress cleaning, and working hours.
- 6.11.3 Pre-installation Conferences Contractor will conduct a pre-installation conference at the Project Site before each construction activity that requires coordination with other construction and includes installation of FOIC items. Contractor is responsible for conducting these meetings, which shall occur on the same date as progress meetings, if possible. Attendees shall include the installers and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination with other materials or installations. Agenda items will include Contract Documents, options, related RFIs, related Change Orders, purchases, deliveries, submittals, review of mock-ups, possible conflicts, compatibility problems, time schedules, weather limitations, manufacturers' written recommendations, warranty requirements, compatibility of materials, acceptability of materials, temporary facilities and controls, space and access limitations, regulations of authorities having jurisdiction, testing and inspecting, installation procedures, coordination with other Work, required performance results, protection of adjacent Work, and protection of the Site and its elements. The Architect shall record significant conference discussions, agreements, and disagreements, including corrective action measures and action.

ARTICLE 7 CONTROL AND QUALITY OF WORK AND MATERIAL

7.1 Quality Control.

- 7.1.1 Generally. Contractor has the primary responsibility for quality control. Contractor will provide continuous superintendence and inspection to insure that the Work is completed in accordance with the plans and Specifications. During the performance of the Work, Metro, the Architect, Special Inspectors, and any representatives of federal, state, and local agencies having jurisdiction over the Work may enter the Project Site, the shops where any part of the Work is being prepared, or the factories or sites where any materials for use in the Work are being or will be manufactured or derived. Contractor shall provide proper and safe facilities for such inspections, and shall make arrangements with manufacturers or other suppliers to facilitate inspection of their processes and products to such extent as Metro's interest may require. No claims for extension of the Contract Time or increase in the Contract Amount shall be allowed for any access allowed to Metro under this Section.
- 7.1.2 Quality Control Plan. Contractor shall prepare and submit a Quality Control Plan to the Project Manager within thirty (30) days following the Notice to Proceed. The Plan will describe the Contractor's procedures for implementing the Quality Control Plan. The Plan shall include without limitation the Quality Control organization, inspection procedures, tests anticipated, materials control, contingency plans related to fire protection and remediation of contaminated releases or other environmental improvement, and reports. Metro reserves the right to accept, reject, or modify the Quality Control Plan. Contractor will submit an interim Quality Control Plan prior to the start of Work to cover the first thirty (30) days of construction.
- 7.1.3 Quality Control Manager. Prior to initiation of construction, Contractor shall designate in writing a Quality Control Manager who shall be responsible for coordinating Contractor's Quality Control Program. The individual so designated shall be the interface with the Project Manager on matters relating to submittals, inspection, scheduling, unacceptable Work product, and corrective actions. Metro reserves the right to accept or reject the Quality Control Manager designated by Contractor.
- **7.2 Inspection.** Contractor has the primary responsibility for providing inspection and testing, except as otherwise set forth in the Specifications. Metro and its agents will also inspect at their discretion or as outlined in the Specifications.

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- 7.2.1 <u>Generally</u>. At all times during construction of the Work, Contractor shall permit Metro, the Architect, and Special Inspectors, or any representatives of federal, state, and local agencies having jurisdiction over the Work, to visit and monitor the progress of the Work for conformance of the Work with the Contract Documents.

 7.2.2 <u>Special Inspections</u>.
- 7.2.2.1 At all times during construction of the Work, Contractor shall permit Metro, the Architect, and Special Inspectors, or any representatives of federal, state, and local agencies having jurisdiction over the Work, to visit and inspect the Work, the materials and the manufacture and preparation of such materials, and subject the Work and materials to inspection and testing to determine if the Work conforms to the requirements of the Contract Documents. Contractor shall maintain proper facilities and safe access for all such inspections.
- 7.2.2.2 The Contractor is responsible for scheduling and coordination of special inspections. Contractor shall be diligent in scheduling special inspections and make every effort to combine special inspections to avoid unnecessary budget impacts.
- 7.2.2.3 The Contract Documents or regulatory agencies may require that portions of the Work be observed, reviewed, tested, or inspected before they are obscured or covered. Similarly, upon request, the Project Manager is entitled to observe portions of the Work before they are covered or obscured. Contractor shall be solely responsible for notifying Project Manager at least two (2) working days prior to performing such Work so that necessary arrangements for inspection and testing can be made. If the Contractor covers or obscures a portion of the Work that is required or requested to be observed, it will uncover the Work for observation and bear any cost associated with that activity without a change in Contract Time.
- 7.2.2.4 The Project Manager may request to see a portion of the Work that has been covered regardless of the requirements of the Contract Documents, regulatory agencies, or a prior request. Thereafter the Contractor must comply with Metro's request. If, on inspection by the Project Manager, the portion of the Work that is uncovered is found to be in accordance with the Contract Documents, Metro will bear all costs associated with that activity and provide additional Contract Time if that activity would cause the Contractor to incur liquidated damages. But if, upon inspection by the Project Manager, the portion of the Work that is uncovered is found not to be in accordance with the Contract Documents, the Contractor will correct the Work and bear any cost associated with that activity without a change in Contract Time. Metro retains the right at any time during construction, or at any time during production, fabrication, or preparation of the Work, to test samples to determine whether they meet the requirements of the Contract Documents. Metro may test any sample, regardless of prior certification, and regardless of whether any prior certification was required. Metro may either conduct the test with its own forces or hire other persons to perform this Work.
- 7.2.2.5 Metro retains the right at any time during construction, or at any time during production, fabrication, or preparation of the Work, to test samples to determine whether they meet the requirements of the Contract Documents. Metro may test any sample, regardless of prior certification, and regardless of whether any prior certification was required. Metro may either conduct the test with its own forces or hire other persons to perform this Work.
- 7.2.2.6 If a sample is to be tested prior to its incorporation into the Work, the Contractor may not incorporate the material, product, part, or equipment into the Work until testing is completed and Metro gives permission for its use.
- 7.2.2.7 Metro will bear the costs of testing unless the tests show that the material, product, part, or equipment failed the test and did not conform to the requirements of the Contract, in which case the Contractor will bear the costs of testing.
- 7.2.2.8 If the sample was previously incorporated into the Work and testing shows that the sample does not meet the requirements of the Contract Documents, the Contractor will pay for the test and for replacing and repairing any equipment, materials, products, or portion of the Work in order to meet the requirements of the Contract Documents.
- 7.2.3 Notice to Metro for Certain Work Days. Whenever Contractor intends to perform Work on Saturday, Sunday, or any legal holiday, it shall give written notice to Metro of such intention at least two (2) working days prior to performing such Work, or such other period as may be specified by Metro, so that Metro may make the necessary arrangement for testing and inspection.
- 7.2.4 Correction of Defective Work Before Acceptance. Any defective Work or Work that otherwise fails to conform to the Contract Documents that is discovered before Final Completion and Acceptance of the Work, shall be corrected immediately by Contractor, and any unsatisfactory materials shall be rejected and replaced with satisfactory materials, notwithstanding that they may have been overlooked by the authorized inspector. The

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inspection of the Work by Metro, the Architect, or any other agency shall not relieve Contractor of any of its obligations to perform fully all of the terms and provisions of the Contract Documents.

- 7.2.5 Acceptance Not Implied by Failure to Object. Failure or neglect on the part of Metro or any of its authorized representatives to condemn or reject defective, improper, or inferior Work or materials shall not be construed to imply a final acceptance of such Work or materials and shall not be construed as relieving Contractor of its duties to perform fully all requirements of the Contract Documents.
- 7.2.6 Replacement and correction of defective Work before the Work is completed and accepted is not limited by any warranty period otherwise established by the Contract.

7.3 Unsatisfactory Materials and Workmanship.

- 7.3.1 <u>Generally.</u> Material, Work, or workmanship that, in the opinion of the Project Manager, does not conform to the Contract Documents, or is not equal to the samples submitted to and approved by the Project Manager, or is in any way unsatisfactory or unsuited to the purpose for which it is intended, will be rejected. Contractor shall bear the cost of correcting or removing, as deemed necessary by Metro, all non-conforming materials, defective Work, or unsatisfactory workmanship. Contractor shall make a close inspection of all materials as delivered, and shall promptly replace all defective materials with conforming materials without waiting for their rejection by Metro.
- 7.3.2 Removal of Rejected or Non-Conforming Work or Material. All rejected material or Work, and all defective or non-conforming Work or material, shall be removed from the Site without delay. If Contractor fails to do so within forty-eight (48) hours after having been so directed by Metro, the rejected material may be removed by Metro and the cost of removal charged against Contractor and deducted from Retainage held by Metro or offset against payments due Contractor, at Metro's option. If in the judgment of Metro it is undesirable or impracticable to replace any defective or non-conforming Work or materials, the compensation to be paid to Contractor shall be reduced by Change Order or Force Account, as applicable, by such amount as, in the judgment of Metro, shall be equitable.
- 7.4 General Warranty of Contractor. Contractor warrants to Metro that materials and equipment provided under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects and contaminants not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. Contractor's warranty excludes remedy for damage or defect caused by abuse, modifications not executed by Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage. If required by Metro, Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. The warranty made by Contractor under this Section shall be in addition to any other specific warranties and certifications required elsewhere in these Contract Documents.

7.5 Third-Party Warranties.

- 7.5.1 The Contractor shall obtain from Subcontractors, manufacturers, and suppliers guarantees and warranties according to the Contract Documents with the optimum terms and longest periods reasonably obtainable. The documentation must also include all maintenance and operational documentation required to sustain said warranties.
- 7.5.2 All guarantees or warranties of materials furnished to the Contractor or Subcontractor by any manufacturer or supplier shall be deemed to run for the benefit of the Owner.
- 7.5.3 As a condition of Substantial Completion of the Project by the Owner, the Contractor shall deliver to the Owner via the Architect three (3) bound volumes of all guarantees and warranties on material furnished by all manufacturers and suppliers to the Contractor and all its Subcontractors, with duly executed instruments properly assigning the guarantees and warranties to the Owner. The guarantees and warranties in each bound volume shall be grouped together by trade and properly indexed. The Contractor shall assign to the Owner, and shall deliver to the Owner, all manufacturers' warranties not later than the date of Substantial Completion.
- **7.6 Subcontractor Warranties.** The Contractor shall and does hereby assign to the Owner the benefits of all warranties and guarantees of all Subcontractors, but such assignment shall not relieve the Contractor of its warranty obligations to the Owner under these General Conditions and other Contract Documents.

7.7 Correction of Work by Contractor.

7.7.1 Any portion of the Work that does not conform to the requirements of the Contract is unacceptable or defective and must be removed and corrected by the Contractor, even if it is contended that Project Manager or other assigned personnel knew or should have known of the existence of the unacceptable Work. This obligation includes defective Work discovered during construction and within one (1) year after the date of Substantial Completion.

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- 7.7.1.1 All portions of the Work that do not conform to the requirements of the Contract Documents must be corrected within a reasonable time at the Contractor's sole expense and without an extension of Contract Time.
- 7.7.1.2 Metro may replace or correct Work within a reasonable time if the Contractor fails to do so and may charge the Contractor with all reasonable costs incurred while performing that Work, as well as the costs of storing any salvageable materials or equipment. If that occurs, Metro is also entitled to deduct such costs from any sums otherwise due the Contractor.
- 7.7.1.2.1 If salvageable materials, equipment, or both are stored, Metro will notify the Contractor of the storage and give the Contractor ten days to remove the materials. If the Contractor fails to remove them by the end of that time, Metro may sell them in any commercially reasonable manner, whether privately or publicly.
- 7.7.1.2.2 If sale is made, Metro will keep all proceeds to the extent that the proceeds do not exceed the costs incurred in correcting and replacing the Work and in storing the materials and equipment. The Contractor will pay Metro any difference in costs that may remain after the sale. If the proceeds exceed Metro's cost, however, it will forward those sums to the Contractor.
- 7.7.2 In the case of equipment manufactured by others and supplied and/or installed by Contractor, the one (1)-year period shall commence upon the date of first beneficial operation of such equipment by Metro. In the case of Work that is corrected or replaced by Contractor, the one (1)-year period shall commence again on the date of acceptance by Metro of such corrected or replaced Work. Testing shall not be construed to mean acceptance.
- 7.7.3 If Metro does not require correction or replacement of defective Work or Work failing to conform to the Contract Documents, Contractor, if required by Metro, shall repay to Metro such portion of the Contract Amount as is equitable under the circumstances, as determined by Metro.
- 7.7.4 Contractor's responsibilities under this Section shall not extend to correction or replacement of defects that are attributable to mistreatment by Metro or to normal wear and tear.

7.8 Warranty and Correction Agreements by Subcontractors.

- 7.8.1 <u>Generally</u>. In addition to any requirements for written warranties required by the Specifications, Contractor shall require all of its Subcontractors and Suppliers of any tier to make the same warranty to Metro as Contractor makes under Section 7.4. Contractor shall also require all of its Subcontractors and Suppliers of any tier to agree to correct or replace defective Work or Work not conforming to the Contract Documents, and to take full responsibility for defective materials in the same manner as Contractor agrees to correct or replace such Work under Section 7.5.
- 7.8.2 <u>Form of Submissions</u>. Contractor shall require all of its Subcontractors and Suppliers of any tier to sign documents evidencing the promises made pursuant to Section 7.8.1 above and shall submit such documents to Metro with its request for Final Payment. Such documents shall be signed by both Contractor and the applicable Subcontractor or Supplier and shall be in the form attached as Exhibit 1 to these General Conditions.
- **7.9** Remedies Not Exclusive. The remedies provided for in this Article shall not be exclusive, but are in addition to all other remedies of Metro with respect to latent defects, frauds, or failure to perform all Work as required by the Contract Documents.
- **7.10 Proof of Compliance with Contract Provisions.** For Metro to determine whether Contractor has complied or is complying with the requirements of the Contract that are not readily enforceable by inspection and test of the Work, Contractor shall, upon request, promptly submit to Metro such properly authenticated documents as may be necessary to demonstrate compliance with the Contract or other satisfactory proof of its compliance with such requirements.
- **7.11 Patents, Copyrights, Trademarks.** All fees or costs of claims for any patented invention, article, or arrangement or any copyrights or trademarks that may be used upon or in any manner connected with the performance of the Work or any part thereof, shall be included in the Bid or Proposal for doing the Work. Contractor shall save, keep, hold harmless, and fully indemnify Metro and Architect from all damages, claims for damage, lawsuits, costs, expenses, or liabilities of whatever nature in law or equity, including attorney fees and court costs, that may at any time arise or be set up for any infringement of the patent rights, copyrights, or trademarks of any person or persons in consequence of the use by Metro of articles to be supplied under the Contract and of which Contractor is not the patentee or assignee or has not the lawful right to sell the same. This is in addition to all other hold-harmless and indemnification clauses in these Contract Documents.

7.12 Anti-Trust Claims.

7.12.1 By entering into this Contract, Contractor, for consideration paid to Contractor under the Contract, does irrevocably assign to Metro any claim for relief or cause of action that Contractor now has or that may

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accrue to Contractor in the future, including at Metro's option, the right to control any such litigation on such claim for relief or cause of action, by reason of any violation of 15 USC Section 1-15, ORS 646.725, or ORS 646.730 in connection with any goods or services that are used, in whole or in part, for the purpose of carrying out Contractor's obligations under this Contract.

7.12.2 Contractor shall require all Subcontractors and Suppliers to irrevocably assign to Metro, as a third-Party beneficiary, any right, title, or interest that has accrued or may accrue to the Subcontractors or Suppliers by reason of any violation of 15 USC Section 1-15, ORS 646.725, or ORS 646.730, including, at Metro's option, the rights to control any litigation arising hereunder, in connection with any goods or services provided to the Subcontractors or Suppliers by any person, in whole or in part, for the purpose of carrying out the Subcontractors' or Suppliers' obligations as agreed to by Contractor in pursuance of the completion of the Contract. Contractor shall require all Subcontractors and Suppliers to Execute the Assignment of Antitrust Claims attached as Exhibit 2 to these General Conditions as part of Contractor's subcontract with Subcontractor or Supplier.

7.12.3 In connection with Contractor's, Subcontractors' or Suppliers' assignment, it is an express obligation of Contractor, Subcontractor, or Supplier that it will take no action that will in any way diminish the value of the rights conveyed or assigned hereunder to Metro. It is an express obligation of Contractor, Subcontractor, or Supplier to advise the Office of Metro Attorney:

7.12.3.1 In advance, of its intention to commence any action on its own behalf regarding such claims for relief or causes of action;

7.12.3.2 Immediately, upon becoming aware of the fact that an action has been commenced on its own behalf by some other person or persons, of the impendency of such action; and

7.12.3.3 The date on which it notified the obligor(s) of any such claims for relief or causes of action of the fact of its assignment to Metro.

7.12.4 In the event that any payment under any such claim is made to Contractor, Subcontractor, or Supplier, it shall promptly pay over to Metro its proportionate share thereof, if any, assigned to Metro under this Section 7.12.

ARTICLE 8 CHANGES IN THE WORK

8.1 Change Orders Generally.

- 8.1.1 Metro and the Contractor mutually agree that changes in plans, quantities, or details of the Work are inherent in the nature of construction and may be necessary or desirable. Therefore, without impairing the Contract, Metro reserves the right to require changes determined necessary or desirable to complete the proposed construction within the general scope of the Work provided for in the Contract or to order extra Work if that is required. Performance of changed or extra Work will not invalidate the Contract or release the Contractor's surety from its obligations. Changes to the Contract Amount, if any, as a result of the performance of changed or extra Work must be made pursuant to this Article 8.
- 8.1.2 The only authorized method for increasing or changing the amount of compensation, increasing the amount of Contract Time, or changing the scope of Work to be performed is through the execution of a written Change Order.
- 8.1.3 Change Orders must be executed in advance when any changed or extra Work for which additional compensation is due will be performed, unless the Work is Force Account Work.
- 8.1.4 Metro may, at its discretion, also require the signature of Contractor's surety on the Change Order. Prior to the approval of such Change Order, the Architect shall have approved any design modifications entailed thereby.
- 8.1.5 Agreement on any Change Order shall constitute a final settlement of all matters relating to the changes in the Work that are the subject of the Change Order, including without limitation all direct and indirect costs associated with such change, and any and all adjustments to the Contract Sum or Contract Time.

8.2 Procedure for Determining Impact of Change Orders on Contract Amount.

8.2.1 <u>Price before Proceeding</u>. If Metro intends to order changes in the Work, it may request a proposal by Contractor for the proposed added or deleted Work before directing Contractor to commence Work. Within fourteen (14) days after issuance of such request by Metro, Contractor shall furnish three (3) copies of a complete breakdown of costs of both credits and additions directly attributable to the change in the Work proposed, itemizing materials, labor, taxes, effect on Contract Time, if any, and Overhead and Profit on a form approved by Metro and in accordance with the limitations described in the following Section. Subcontract Work shall be so indicated and written proposals from Subcontractors or Suppliers shall be included with similar breakdowns provided. Following

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submission of its cost breakdown, Contractor shall meet with Metro to discuss all aspects of scope, costs, scheduling, and construction methods.

- 8.2.2 Proceed While Pricing. If Metro finds it necessary to make changes in the Work in an expeditious manner, it may direct Contractor to proceed with the change while preparing a proposal for the added or deleted Work. In such an instance, Metro may assign an estimated value to the change that Contractor shall not exceed without further authorization by Metro. Within fourteen (14) days after issuance of such by Metro, Contractor shall furnish three (3) copies of a complete breakdown of costs of both credits and additions directly attributable to the change in the Work proposed, itemizing materials, labor, taxes, effect on Contract Time, if any, and Overhead and Profit on a form approved by Metro and in accordance with the limitations described in the following Section. Subcontract Work shall be so included with similar breakdowns provided. Following submission of its cost breakdown, Contractor shall meet with Metro to discuss all aspects of scope, costs, scheduling, and construction methods.
- 8.2.3 <u>Unit Prices</u>. If the proposed additional or deleted Work is the subject of Unit Prices stated in the Contract Documents or subsequently agreed upon, such Unit Prices shall be binding upon Contractor in calculating the increase or decrease in the Contract Amount attributable to the proposed additional or deleted Work.
- **8.3 Limitations when Change Orders Impact Contract Amount.** The following limitations shall apply in the calculation of the costs of changes in the Work:
 - 8.3.1 Overhead and Profit.
- 8.3.1.1 Contractor will be permitted a reasonable allowance for Profit and Overhead on its increased Direct Cost resulting from any changes in the Work ordered by Metro. Likewise, Profit and Overhead will be deducted for any portion of the Work that is deleted. In the case of a change involving both credits and extras, Overhead and Profit shall be applied to the net extra after subtraction of credits.
- 8.3.1.2 Overhead and Profit for the entity performing the Work with its own crews shall not exceed ten percent (10%) of the Direct Cost of the changed Work.
- 8.3.1.3 Overhead and Profit for Contractor or Subcontractor who has had the Work performed by a lower tier Subcontractor shall not exceed five percent (5%) of the Direct Cost of the changed Work.
- 8.3.1.4 If the Work is performed by a second-tier Subcontractor, the total Overhead and Profit for all tiers shall in no event exceed twenty percent (20%) of the Direct Cost of the changed Work. Distribution of this Overhead and Profit among the tiers is the responsibility of Contractor.
- 8.3.2 <u>Taxes and Insurance</u>. Federal, state, regional, county, and local taxes, including but not limited to income taxes, excise taxes, sales and use taxes, and payroll taxes and insurance shall be shown separately, will be allowed on extras, and shall be credited on credits. No Overhead and Profit will be allowed on taxes and insurance.
- 8.3.3 <u>Bond Premiums</u>. The actual rate of bond premium as paid on the additional Direct Cost plus the cost of taxes defined in 8.3.2 will be allowed. No Overhead and Profit will be allowed on such premiums.
- 8.3.4 <u>Equipment Costs</u>. The allowance for equipment costs (both rental and Contractor-owned equipment) shall be limited to those rates in the Rental Rate Bluebook published by Dataquest Incorporated, 1290 Ridder Park Drive, San Jose, California 95131-2398, (800) 227-8444.

8.4 Force Account Work.

- 8.4.1 If Contractor does not respond to Metro's Request for Proposal with a cost breakdown within the fourteen (14)-day period as required above, or if Metro determines that Contractor's breakdown of costs is unreasonable in consideration of the Work proposed to be added or deleted, or if Metro determines that the proposed Work must be commenced promptly to avoid delay to the Project, Metro may issue an order for Force Account Work and Contractor shall promptly perform or delete the Work described in such order. Change, if any, in the Contract Amount due to such Force Account Work shall be the sum total of the following items:
- 8.4.1.1 Actual labor cost, including premium on worker's compensation insurance and charge for social security taxes, and other taxes pertaining to labor.
- 8.4.1.2 The proportionate cost of premiums of public liability property damage and other insurance applicable to the extra Work involved and required by these Contract Documents.
 - 8.4.1.3 Actual cost of material, including applicable taxes pertaining to materials.
- 8.4.1.4 Actual cost of plant and equipment rental, at rates to be agreed upon in writing before the Work is begun or at rates per Section 8.3.4 above. No charge for the cost of repairs to plant or equipment will be allowed. Equipment items having a capital cost of under \$250.00 are considered small tools and classified as Overhead.
 - 8.4.1.5 Overhead and Profit as provided and limited in Section 8.3.

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8.4.1.6 The proportionate actual costs of premiums for bonds required by these Contract

Documents.

8.4.2 Whenever any Force Account Work is in progress, each working day Contractor shall furnish to Metro a detailed written report signed by Contractor and Project Manager of the amount and cost of all of the items listed in (1) through (6) above, and no claim for compensation for such extra Work will be allowed unless such report shall have been made. Metro reserves the right to provide such materials as it may deem expedient, and no compensation, overhead, or profit will be allowed to Contractor for such materials.

8.5 Contractor Proposals for Changes in Work.

- 8.5.1 <u>Generally</u>. At any time during the performance of the Work, Contractor may propose to Metro changes in Work that Contractor believes will result in higher quality Work, improve safety, shorten the Contract Time, decrease the Contract Amount, or otherwise result in better or more efficient Work.
- 8.5.2 <u>Purpose</u>. Metro encourages Contractor to submit Value Engineering Change Proposals ("VECPs") in order to avail Metro of potential cost savings that may result. Contractor and Metro will share any savings, computed in accordance with this Section 8.5. Contractor is encouraged to submit VECPs whenever it identifies an area that can be improved, using the format described herein.
- 8.5.3 <u>Application</u>. This clause applies to a Contractor-developed and documented VECP that: (1) requires a change to this Contract to implement the VECP, and (2) reduces the Contract Price without impairing essential functions or characteristics of the Work, provided it is not based solely on a change in specified quantities.
- 8.5.4 <u>Documentation</u>. At a minimum, the following information shall be submitted by Contractor with each VECP: (1) description of the existing requirements of the Contract Documents that are involved in the proposed change; (2) description of the proposed change; (3) discussion of differences between existing requirements and the proposed change, together with advantages and disadvantages of each changed item; (4) itemization of the requirements that must be changed if the VECP is accepted (e.g., drawing numbers and Specifications); (5) justification for changes in function or characteristics of each such affected item and effect of the change on the performance of the end item; (6) effect of proposed change on life-cycle costs, including operation and maintenance, replacement costs, and life expectancy; (7) date or time by which a Change Order adopting the VECP must be issued in order to obtain the maximum cost reduction, noting any effect on Contract Time or delivery schedule; and (8) cost estimate for existing Contract requirements correlated to its lump sum breakdown and proposed changed requirements. Costs of development and implementation by Contractor shall be identified. Estimated Metro costs
- 8.5.5 <u>Submission</u>. Proposals will be processed expeditiously; however, Metro will not be liable for any delay in acting upon any proposal submitted pursuant to this clause. Contractor shall have the right to withdraw, in whole or in part, any VECP at any time prior to acceptance by Metro.
- 8.5.6 Acceptance. Metro may accept, in whole or in part, by Change Order, any VECP submitted pursuant to this clause. Until a Change Order is issued, Contractor shall remain obligated to perform in accordance with this Contract. The decision as to acceptance or rejection of any VECP will be at the sole discretion of Metro and will be final and not subject to review by mediation or otherwise.
- 8.5.7 <u>Sharing</u>. If a VECP submitted by Contractor pursuant to this clause is accepted, Contractor shall proceed with the change and the Contract Price will be adjusted in accordance with the following provisions:

8.5.7.1 <u>Definitions</u>:

(e.g., cost of testing and redesign) shall also be identified.

8.5.7.1.1 Estimated Gross Savings to Contractor ("GS"): The difference between cost of performing the Work according to the existing requirement and the cost if performed according to the proposed change. In each instance, Contractor's profit shall not be considered part of the cost.

8.5.7.1.2 Contractor Costs ("CC"): Reasonable costs incurred by Contractor in preparing the VECP and making the change such as cancellation or restocking charges where required.

8.5.7.1.3 Estimated Net Savings to Contractor ("NS"): GS less CC.

8.5.7.1.4 Metro's Costs ("OC"): Reasonable costs incurred by Metro for

evaluating and implementing the VECP, such as testing and redesign, where required.

8.5.7.2 <u>Calculations</u>:

8.5.7.2.1 The Contract Price shall be reduced by an amount equal to 70

percent of NS plus 50 percent of OC.

8.5.7.2.2 Contractor's profit will not be reduced by application of the VECP.

8.5.8 <u>Subcontracts</u>. Contractor shall include appropriate value engineering incentive provisions in all subcontracts of \$25,000 or greater. Contractor may include such provisions in any agreement. Subcontracts shall contain a provision that any benefits accruing to Contractor as a result of an accepted VECP initiated by a

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Subcontractor shall be shared by Contractor and Subcontractor. To compute any adjustment in the Contract Price under Section 8.5.7.2 above, Contractor's costs of preparation and charge for a VECP shall include any preparation and change costs. Examples are cancellation or restocking charges, when required.

8.6 Impact of Authorized Changes in the Contract. Changes in the Work made pursuant to this Article and extensions of the Contract Time allowed by Metro due to such changes shall not in any way release any warranty or promises given by Contractor pursuant to the provisions of the Contract Documents, nor shall such changes in the Work relieve or release the sureties of bonds executed pursuant to said provisions. The sureties, in executing such bonds, shall be deemed to have expressly agreed to any such change in the Work and to any extension of Contract Time made by reason thereof.

ARTICLE 9 PAYMENTS AND COMPLETION

9.1 Scope of Payment. Payment to Contractor of the Contract Amount for performing all Work required under the Contract, as adjusted for any Change Orders approved as hereinbefore specified, shall be full compensation for furnishing all labor, materials, equipment, and tools necessary to the Work, and for performing and completing, in accordance with these Contract Documents, all Work required under the Contract, and for all expenses incurred by Contractor for any purpose in connection with the performance and completion of said Work. Whenever it is specified in the Contract that Contractor is to do Work or provide materials of any class for which no price is fixed in the Contract, Contractor will do such Work or provide such materials without extra charge or allowance or direct payment of any sort, and that the cost of doing such Work or providing such materials is included in its Bid or Proposal.

9.2 Schedule of Values.

- 9.2.1 <u>Generally</u>. Within fifteen (15) days after the Notice to Proceed, Contractor shall submit a detailed breakdown costs itemized per Construction Specification Institute division format. The format and detail of the breakdown shall be as directed by Metro. This breakdown shall be referred to as the Schedule of Values.
- 9.2.2 Review of Schedule of Values. Metro will review the Schedule of Values to ascertain that the dollar amounts of the Schedule of Values are in fact fair cost allocations for the Work item listed. Upon concurrence by Metro, a formal approval of this Schedule of Values will be issued. Metro shall be the sole judge of fair cost allocations. Contractor's monthly progress payment requests shall reflect the cost figures included in the approved Schedule of Values and shall be based on completed Work items or percentages of Work items completed prior to the end of the payment period as more fully described below.

9.3 Progress Payment Procedure.

- 9.3.1 <u>Generally</u>. Subject to the approval of Metro, disbursements shall be made by Metro of progress payments upon written request of Contractor and pursuant to the Contract Documents as specified in Section 9.3.2.
- 9.3.2 Before the end of each calendar month, Contractor shall file with the Project Manager in duplicate on a form approved by Metro, a proposed payment estimate for the period commencing on the 26th day of the previous month through midnight on the 25th day of the calendar month in question. Metro and the Architect shall review Contractor's estimate and shall determine the value of Contractor's Work based on the Schedule of Values and incorporated labor and materials for the payment period. Contractor shall not be paid for any Work that is, in Metro's opinion, defective or improper, or for Work needed to correct Contractor's defective or improper Work. Contractor shall be paid 95 percent (95%) of the determined value of Work accomplished, less any offset or withholding of sums by Metro allowed under the Contract Documents, within thirty (30) days after receipt by Metro of Contractor's payment estimate. Metro will routinely withhold five percent (5%) as Retainage. No inaccuracy or error in any monthly progress payment estimates shall operate to release Contractor or its surety from damages arising from such Work or from the enforcement of each and every provision of the Contract Documents, and Metro shall have the right subsequently to correct any error made in any estimate for progress payments.

9.3.3 Retainage.

9.3.3.1 Metro will withhold Retainage from each payment at a rate of five percent (5%) in accordance with ORS 279C.570.

9.3.3.2 All funds retained by Metro under this Section shall be retained in a fund by Metro and paid in accordance with ORS 279C.550 to 279C.580.

9.3.3.3 Contractor may elect to deposit bonds or securities of the type described below with Metro or in any bank or trust company to be held in lieu of the cash Retainage described above and for the benefit of Metro. In such event, Metro shall reduce the Retainage in an amount equal to the value of the bonds and securities

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and shall pay the amount of the reduction to Contractor in accordance with ORS.279C.570. Interest on such bonds or securities shall accrue to Contractor. Bonds and securities deposited or acquired as described above shall be of a character approved by the Metro Director of Finance & Regulatory Services including but not limited to:

9.3.3.3.1 Bills, certificates, notes, or bonds of the United States.
9.3.3.3.2 Other obligations of the United States or its agencies.
9.3.3.3.3 Obligations of any corporation wholly owned by the federal

government.

9.3.3.3.4 Indebtedness of the Federal National Mortgage Association.

9.3.3.4 Contractor may elect to require Metro to deposit the accumulated Retainage in an interest bearing account in a bank, savings bank, trust company, or savings association for the benefit of Metro. Interest on such an account shall accrue to Contractor.

9.3.3.5 If Metro incurs additional costs as a result of Contractor's exercise of any of the above-described options, Metro may recover such costs from Contractor by reduction of the Final Payment. Metro shall inform Contractor of all such accrued costs.

9.3.4 Payment for Material Stored Off Site. Payment for material stored off of the Site will not be allowed unless the payment for such material benefits Metro in terms of lead time, scarcity, schedule, etc. Metro has sole discretion as to what materials will be paid for in advance of delivery to or installation on Site. Proof of off-site material purchases (invoice or checks and photo documentation) and appropriate insurance coverage will be required for payment. Title to all equipment and materials shall pass to Metro upon payment therefore or incorporation into the Work, whichever shall first occur, and Contractor shall prepare and execute all documents necessary to effect and perfect such transfer of title. Contractor must provide to Metro written consent from Contractor's surety approving the advanced payment for materials stored off-site. The maximum prepayment allowed by Metro shall be 75 percent of the actual fair market value of the item being considered. Metro shall be the sole judge of fair market value. Contractor shall protect stored materials from damage, and damaged or otherwise unacceptable materials, even though paid for, shall not be incorporated into the Work.

9.3.5 Other Conditions Precedent to Payment.

9.3.5.1 It is a condition precedent to Contractor's rights to any payments under the Contract that all bills for labor and materials, including labor and materials supplied by or to Contractor, shall have been paid in full and, if requested by Metro, Contractor shall submit receipted invoices and/or lien waivers, as evidence of payment in full of all such accounts. As a further condition precedent to Contractor's right to any payments under this Contract, Contractor shall submit a claims release before any payment in the form set forth in Exhibit 3 to these General Conditions, and a final claims release stating Contractor has been paid in full prior to the Final Payment in the form set forth in Exhibit 4 to these General Conditions.

9.3.5.2 Payments to Contractor shall be conditioned upon Contractor complying with all provisions of this Contract regarding scheduling and progress reports submissions and upon Contractor furnishing all other information and data necessary to ascertain actual progress. Metro's determination that Contractor has failed or refused to furnish the required information, data, schedules, or other reports shall constitute a basis for withholding all payments until the required information, data, revised schedules, and diagrams, if necessary, and other reports are furnished.

- 9.3.6 Payment Does Not Imply Acceptance of Work. The granting of any progress payment, or the receipt thereof by Contractor, shall not constitute acceptance of the Work or any portion thereof, and shall in no way lessen the liability of Contractor to replace unsatisfactory Work or material, though the unsatisfactory character of such Work or material may or may not have been apparent or detected at the time such payment was made.
- 9.3.7 Offset of Sums Due Metro from Contractor. In addition to any retention rights allowed Metro under this Contract, it is mutually understood and agreed that Metro may, upon prior written notice to Contractor, offset from any payment otherwise due Contractor as much as may be necessary to protect and compensate Metro from any costs or expenses it may incur due to any breach of the Contract by Contractor, including applicable liquidated damages. Any sums so offset shall become the property of Metro.

9.4 Substantial Completion.

9.4.1 Metro is also entitled to occupy or use all or a portion of the Work on Substantial Completion. Occupancy or use on Substantial Completion does not constitute Metro's acceptance of the Work not complying with the requirements of the Contract Documents, nor does it waive rights Metro has to completion of the Contract in accordance with the requirements of the Contract Documents.

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- 9.4.1.1 When Contractor considers the Work to be substantially complete, Contractor shall submit to Metro a written notice that the Work is substantially complete
- 9.4.2 Within a reasonable time after receipt of such notice, Metro and Architect will review the Work, including a physical inspection, to determine the status of completion. Should the Architect and Metro determine that the Work is not substantially complete:
 - 9.4.2.1 The Project Manager will promptly notify Contractor in writing, giving the reasons

therefore.

- 9.4.2.2 The Contractor shall remedy the deficiencies in the Work, and thereafter send a second written notice of Substantial Completion to Metro.
- 9.4.3 The above-described procedure shall be followed until the Work is, in the opinion of Metro and Architect, substantially complete. At that point:
- 9.4.3.1 The Architect will prepare a Certificate of Substantial Completion on AIA Document G704, accompanied by the approved Punch List of items to be completed or corrected as verified and amended by the Architect.
 - 9.4.3.2 Metro shall submit the Certificate of Substantial Completion to Contractor for

signature.

- 9.4.4 Punch List. When the Work is substantially complete, the Contractor shall prepare a Punch List of items to be completed or corrected for review and approval by Metro and the Architect. The Architect shall be responsible for preparing the final Punch List. The Contractor remains responsible to complete the Work in accordance with the Contract Documents regardless of whether an item is omitted from the Punch List.
- 9.4.4.1 The Contractor is required to proceed promptly to complete the items on the Punch List and any other items that may be discovered to be incomplete or incorrect regardless of whether they are on the Punch List or not. If the Contractor fails to complete the Punch List within 30 days or such other time as Project Manager may allow, Metro may terminate any further services of the Contractor under the Contract and complete the Punch List items remaining to be completed or corrected with Metro's own forces or by hiring another Contractor to perform the Punch List Work. Costs of performing the Punch List Work by Metro will be deducted from any payments otherwise due the Contractor.
- 9.4.4.2 The Contractor will notify Metro when the Punch List Work is complete, and Final Payment will then be made in accordance with. After receipt of that Notice, Metro will inspect the Work to determine whether the Punch List is complete as provided in Section 9.5 of these General Conditions.
- 9.4.4.3 If the Work is not complete despite the Contractor's notice that the Punch List items are complete, and Metro has hired an Architect or Engineer to assist it on the Project, the Contractor will pay costs for the Architect's or Engineer's services if more than two inspections of the Work are required because the Punch List remains incomplete.
- 9.4.4.4 On Substantial Completion, Metro will be responsible for utilities, insurance, security, maintenance, and damage to Work caused by Metro's agents and employees unless otherwise provided in the Certificate of Substantial Completion. The Contractor remains responsible for damage to Work caused by its Subcontractors, agents, and employees during the performance of Punch List Work.
 - 9.5 Final Completion and Acceptance.
- 9.5.1 When Contractor considers the Work to be finally complete, Contractor shall submit written certification to Metro that:
 - 9.5.1.1 Contract Documents have been reviewed.
 - 9.5.1.2 Work has been inspected for compliance with Contract Documents.
 - 9.5.1.3 Work has been completed in accordance with Contract Documents to include

submission of record documents.

operational.

- 9.5.1.4 Equipment systems have been tested in the presence of Metro and are
- 9.5.1.5 Work is ready for final inspection.
- 9.5.2 Architect and Metro will promptly review the Work and include a physical inspection to verify the status of completion and shall inform Metro of the conclusions. Metro shall, within fifteen (15) days after receipt of Contractor's certification, either accept the Work or notify Contractor of the Work yet to be performed on the Contract as outlined below.
 - 9.5.3 Should the Architect and Metro consider that the Work is incomplete or defective:
- 9.5.3.1 Project Manager or the Architect will promptly notify Contractor in writing, listing the incomplete or defective Work.

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- 9.5.3.2 Contractor shall take immediate steps to remedy the stated deficiencies, and send a second written certification to Metro that the Work is complete. Metro will then advise the Architect.
 - 9.5.3.3 Architect and Metro will review and re-inspect the Work.
- 9.5.4 The procedure set forth in Section 9.5.3 shall be followed until the Work is, in the opinion of Metro and Architect, finally complete. Contractor shall immediately thereafter prepare and submit Closeout Submittals as described below.
- **9.6** Closeout Submittals. Contractor shall submit the following items, as applicable, with its request for Final Payment:
 - 9.6.1 Evidence of Compliance with Requirements of Governing Authorities.
 - 9.6.2 Project record documents in accordance with the Specifications.
 - 9.6.3 Operation and maintenance data in accordance with the Specifications.
- 9.6.4 Warranties in accordance with requirements of various Specification sections and these General Conditions.
- 9.6.5 Extra stock and maintenance materials. Contractor shall submit receipts, signed by Metro, for the various specific items.
 - 9.6.6 Evidence of payment and release of claims in accordance with the following section.
 - 9.6.7 Consent of surety to Final Payment.
- 9.6.8 Certificates of insurance for products and completed operations in accordance with Article 12 of these General Conditions.
- 9.6.9 If Contractor is a non-resident bidder or proposer, complete documentation of Contractor's compliance with ORS 279A.120.
- **9.7 Releases.** Contractor and each assignee under any assignment in effect at the time of Final Payment shall execute and deliver, at the time of application for Final Payment, as a condition precedent to Final Payment, discharging and releasing Metro and the Architect of and from all liabilities, obligations, and claims arising under this Contract. The Final Release shall be in the form attached as Exhibit 4 to these General Conditions. In addition to the above-described release, Contractor shall:
- 9.7.1 Submit to Metro an affidavit certifying that Contractor has paid all federal, state and local taxes including excise, use, sales, and employee withholding taxes.
- 9.7.2 Deliver to Metro written releases of all rights to file claims against Metro or to file claims on any bonds in connection with the Contract, signed by each Subcontractor and Supplier who performed labor or furnished materials in connection with the Work. The release shall be in the form attached as Exhibit 5 to these General Conditions.
- 9.7.3 Deliver to Metro Contractor's written undertaking, with sureties acceptable to Metro:
 9.7.3.1 To promptly pay and obtain a release of claims on any bonds that may in the future affect the premises; and
- 9.7.3.2 To defend, indemnify, and save Metro harmless from any liability or expense because of any claim on any bond or any other claim related to the Contract or the Work.
- **9.8 Final Payment.** Upon application of Contractor and Contractor's completion of and compliance with all of the provisions of the above Sections and settlement of all claims arising from the Contract, including claims that Metro may have against Contractor, Metro shall pay Contractor the balance of the Contract Amount subject to the availability of monies and less any previous payments, offsets, and withholdings allowed Metro under this Contract, and Retainage that has been returned to Contractor. Acceptance of Final Payment by Contractor shall constitute a waiver of all claims of whatever nature that Contractor may have or allege to have against Metro arising out of or related to Work described in the Contract Documents.
- **9.9 No Waiver of Rights.** Neither the final review by Metro, nor any order or certificate for the payment of money, nor any payment for, nor acceptance of the whole or any part of the Work by Metro, nor any extension of time, nor any position taken by Metro shall operate as a waiver of any provision of this Contract or of any power herein reserved by Metro or any right to damage herein provided, nor shall any waiver of any breach of this Contract be held to be a waiver of any other or subsequent breach. All of Metro's remedies provided in this Contract shall be taken and construed as cumulative; that is, in addition to each and every other remedy herein provided; and Metro shall have any and all equitable and legal remedies that it would in any case have.

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ARTICLE 10 SAFETY, USE OF SITE, AND PROTECTION OF THE WORK

10.1 Laws and Regulations.

10.1.1 The Contractor must comply with all federal, state, and municipal laws in regard to all matters concerning this Contract. This includes but is not limited to compliance with the ADA. The Contractor must also comply with the orders, rulings, decrees, and decisions of any administrative or judicial officials that in any manner whatsoever affect the Project, the Work, the safety of persons around the Work Site, or the manner in which the Work is performed.

10.1.2 If the Contractor observes that any portion of the Work is to be performed in a way that violates any law, code, or regulation, it must immediately notify Metro in writing.

10.1.3 Contractor will divert a minimum of 85% of all construction and demolition waste to recycling and reuse markets, and, if the Work is performed in the City of Portland, comply with City of Portland Code 17.102.270 and related administrative rules.

10.2 Safety Requirements.

10.2.1 Safety Generally.

10.2.1.1 Contractor shall be solely and completely responsible for the safety of the Work and the Site, including but not limited to the safety of all persons and property involved in the Work at the Site at any time until Final Completion and Acceptance of the Work.

10.2.1.2 All Work shall be performed in full accordance with all applicable safety codes, laws, ordinances, and requirements including but not limited to the Safety and Health Regulations for Construction promulgated by the Secretary of Labor under Section 107 of the Contract Work Hours and Safety Standards Act as set forth in Title 29 of the Code of Federal Regulations, federal and state OSHA, Metro's insurance standards, and all other applicable safety codes. Where any of these are in conflict, the more stringent requirement shall be followed. Contractor's failure to thoroughly familiarize itself with the aforementioned safety provisions shall not relieve it from any requirements in the Contract Documents to comply with such safety provisions or from any penalties for failure to so comply.

10.2.1.3 Contractor shall inspect the Work and the Site daily and immediately correct any unsafe conditions. All job personnel shall be knowledgeable of and comply with the above safety requirements.

10.2.1.4 Contractor shall take all precautions to prevent the possibility of fire resulting from Contract operations. Contractor shall provide properly maintained emergency fire extinguishing equipment of a readily available type and quantity as necessary to meet potential fire hazards.

10.2.1.5 In an emergency affecting safety of persons or property, the Contractor shall act to prevent the threatened damage, injury, or loss and immediately notify Metro.

10.2.2 <u>Health and Safety Program</u>. Contractor shall develop, publish, and implement the overall Health and Safety Program for the Project. This Program shall conform to all applicable codes. Contractor shall submit the written Health and Safety Program to Metro for review and comment within fourteen (14) days after the receipt of the written Notice To Proceed. The Program, as approved by Metro, shall subsequently be distributed to and implemented by Contractor's personnel, as well as its Subcontractors and Suppliers. Contractor shall fully implement and comply with the approved Safety Program.

10.2.3 <u>Health and Safety Officer</u>. Prior to initiation of construction, Contractor shall designate in writing a Site Health and Safety Officer who shall be responsible for coordinating Contractor's Health and Safety Program. The individual so designated shall be the interface with the Project Manager on matters relating to safety and Contractor's compliance with the approved Safety Program. Metro reserves the right to accept or reject the Health and Safety Officer designated by Contractor.

10.3 First Aid.

10.3.1 Contractor shall maintain on the Site during Work operations, a member of its work force who is qualified in administering first aid to its personnel and shall have available in its job office the first aid equipment as required to meet all applicable safety codes. The names and credentials of qualified personnel will be submitted to the Project Manager.

10.3.2 Contractor shall require or provide adequate clothing and protective gear for all personnel working on the job Site. This includes but is not limited to hard hats, substantial boots or shoes, shirts with sleeves at all times, eye and ear protection, gloves, face masks, welding hoods, and safety belts as required for the type of Work being done.

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10.4 Use of Site.

10.4.1 The Contractor shall confine operations at the Site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents, and shall not unreasonably encumber the Site with materials or equipment.

10.4.2 Prior to commencement of the Work, the Contractor shall review the Project Site with Metro in detail and identify the area of the Work, staging areas, connections or interfaces with existing structures and operations, and restrictions on the Project Site area. The Contractor will ensure that all forces on the Project Site are instructed about the acceptable working and staging areas and restrictions on use of the Site. The Contractor, with advance consent of Metro, will erect such barriers, signage, and devices as are necessary to restrict access to the Project Site to approved personnel and to prevent unauthorized access by construction personnel to non-Work areas.

10.4.3 The Contractor and its Subcontractors shall receive prior approval from Metro before delivering or storing any materials or tools on Metro's premises. Upon approval, materials and tools will be stored so that they do not hamper the operation of equipment or persons and do not present a fire or safety hazard.

10.4.4 Contractor and its Subcontractors shall not erect on the Project Site any signage intended to advertise or promote their business without the prior written consent of Metro.

10.4.5 If the Contractor removes Metro's property, fixtures, materials, or other equipment to perform the Work, the Contractor shall be responsible for the safekeeping of all such property, fixtures, materials, or other equipment including without limitation assuring that such items are not lost, damaged, or destroyed, and are upon Metro's directive are either returned to their original location, reinstalled, replaced, or repaired as necessary.

10.4.6 When all or a portion of the Work is suspended for any reason, the Contractor shall securely fasten down all coverings and protect the Work, as necessary, from damage by any cause

10.4.7 At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus material from and about the Project, and shall return any damage or altered portion of Metro's property to at least its pre-construction condition.

10.5 Protection of Work, Persons, and Property Against Damage.

10.5.1 Contractor shall protect the Work from damage due to construction operations; the action of the elements, including erosion due to normal and extraordinary weather conditions; the carelessness of other contractors; vandalism; or any other cause whatever until Final Completion and acceptance of the Work.

10.5.2 The Contractor will keep the Project Site safe in compliance with applicable law. Safety includes but is not limited to: (1) providing approved types of secured and adequate barricades or fences that are easily visible from a reasonable distance around open excavations; (2) closing up or covering with steel plates all open excavations at the end of each Working Day in all street areas and in all other areas when it is reasonably required for public safety; (3) marking all open Work and obstructions by lights at night; (4) installing and maintaining all necessary signs, lights, flares, barricades, railings, runways, stairs, bridges, and facilities; (5) observing any and all safety instructions received from Project Manager; and (6) following all laws and regulations concerning worker and public safety. If the law requires greater safety obligations than those imposed by Metro, the Contractor must comply with the law.

10.5.3 The Contractor will protect, and take every reasonable precaution to avoid damage to, all public and private property that might be damaged by its operations.

10.5.4 If public or private property, or both, is damaged by the Contractor's operations, the Contractor must either repair the damage or have the damage repaired by others at its own expense, without additional compensation from Metro. The repair must bring the damaged property back to the same condition it was in before the damage occurred. If repair and restoration is not feasible, the Contractor will pay Metro for the full cost of the damage. If the damage has been caused to property of Metro, Metro has the right to determine whether or not the property will be repaired and restored by the Contractor. If Metro elects to have the property repaired with its own forces or by another entity, the Contractor will pay Metro all costs associated with that repair and restoration.

10.5.5 The Contractor must give reasonable Notice to Metro and occupants of property adjacent to the Work to permit them to remove vehicles, trailers, and other possessions, as well as salvage or relocate plants, trees, fences, sprinkler systems, or other improvements in the Easement or Right-of-Way that are designated for removal or that might be destroyed or damaged by the Contractor's operations.

10.5.6 All federal, state, and local safety and environmental protection laws, rules, and orders, including fire codes, applicable to the Work to be done under the Contract, shall be obeyed, complied with, and enforced by Contractor.

10.5.7 Contractor shall provide and maintain such guards, fences, barriers, signs, regulatory and warning lights, and other traffic control and safety devices adjacent to and on the Site as may be necessary to prevent

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accidents to the public and damage to property. Contractor shall also provide, place, and maintain such lights as may be necessary for illuminating the said signs, guards, fences, barriers, and other traffic and safety control devices.

10.5.8 Upon Final Completion and Acceptance of the Work, Contractor shall remove all temporary signs, lights, barriers, etc., from the Site.

10.5.9 The Contractor must protect worksites and storage and disposal areas from washouts and erosion, and take all necessary precaution to control or abate dust, nuisances, and air pollution arising from the performance of Work by taking necessary actions to prevent this. Such actions include but are not limited to cleaning up, sweeping, sprinkling, covering, enclosing, or sheltering Work areas and stockpiled materials, and removing promptly from paved areas earth or other materials that may become airborne or that may be washed into waterways or drainage systems.

10.6 Utilities.

10.6.1 The Contractor is responsible for locating light and power poles, underground electrical, underground communication, sewer, gas, and water piping, gas/water "shut off" boxes and covers, and all other utility lines. The Contractor will follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in the Oregon Administrative Rules. Copies of these rules may be obtained by contacting the Center. If the Contractor has questions about the rules, it is to contact the Center. The Parties agree that any Project plans or permits issued by Metro are deemed to have this language incorporated by reference.

10.6.2 The Contractor will give Notice to Metro of any intended excavation it may have at least 48 hours in advance of the proposed excavation. If the intended excavation or other work would cause any interruption in utility service, the Contractor will give notice to Metro at least five (5) days in advance. The specific schedule for all interruptions in utility services must be coordinated with the Project Manager.

10.6.3 The Contractor will maintain any markings showing the presence of underground facilities. If the Contractor does not maintain such markings, and Metro is required to reestablish them, the Contractor will pay Metro any and all costs associated with that activity.

10.6.4 The Contractor will exercise special care in executing subsurface work in proximity of known subsurface utilities, improvements, and easements. The Contractor will arrange for and pay the cost of disconnecting, removing, relocating, capping, replacing, or abandoning all public and private utilities impeding construction operations, all in accordance with servicing utilities' regulations and governing codes. The Contractor will cap abandoned utilities. The Contractor will provide maintenance of all on-site active above-grade and below-grade services. Any utilities damaged by Contractor shall be repaired immediately to Owner's satisfaction.

10.7 Hazardous Substances Encountered During Construction and Other Environmental Laws.

10.7.1 With respect to Hazardous Materials to be used during the course of the Work, the Contractor will implement and enforce a program to inventory and properly store and secure all Hazardous Materials that may be used or may be present on the Project Site, maintain available for inspection at the Project Site all material safety data sheets, and comply with all regulations required by law for the storage, use, and disposal of Hazardous Materials. The program must provide for notification of all personnel of potential chemical hazards. Review of these hazards must be included in the Contractor's safety training program. The Contractor will submit to Metro a list of all Hazardous Materials to be brought by the Contractor or its Subcontractors onto Metro's property, including the purpose for their use on the Project.

10.7.2 In the event of a release or discovery of a preexisting release of Hazardous Materials, or if it is foreseeable that injury or death to persons may occur because of any material or substance (including without limitation Hazardous Materials) encountered on the Project Site, the Contractor must **immediately** (1) stop the Work or the portion of the Work affected, (2) notify Metro and the Architect orally and in writing, and (3) protect against exposure of persons to the Hazardous Materials. The Contractor is to provide all written warnings, notices, reports, or postings required at law or by contract for the existence, use, release, or discovery of Hazardous Materials.

10.7.3 With respect to any Hazardous Materials or other material or substance reported to Metro under Section 10.7.2 above that were not introduced to the Project Site by the Contractor or its Subcontractors of any tier, Metro will obtain the services of a qualified environmental consultant to verify the presence or absence of the material or substance reported by the Contractor and, if the material or substance is found to be present, to verify that it is rendered harmless. Unless otherwise required by the Contract Documents, Metro will furnish in writing to the Contractor and Architect the names and qualifications of persons or entities that are to perform tests verifying the presence or absence of such material or substance, or that are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to Metro in writing, stating whether or not either has reasonable objection to the persons or entities proposed by Metro. If either the Contractor or the Architect has an objection to a person or entity proposed by Metro, Metro will propose another to which the Contractor

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and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area is to resume upon written agreement of Metro and the Contractor. By Change Order, the Contract Time may, subject to agreement by Metro and the Contractor, be extended appropriately and the Contract Amount will be increased in the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up, which adjustments are to be accomplished as provided in Article 8.

10.7.4 With respect to any Hazardous Materials or other material or substance reported to Metro under section 10.7.2 above that was introduced to the Project Site by the Contractor or its Subcontractors of any tier, the Contractor will be responsible to carry out the duties of (1) proposing to Metro and the Architect a qualified environmental consultant, (2) obtaining and paying for the services of the environmental consultant, and (3) verifying that the material is rendered harmless, as otherwise set forth in Section 10.7.3 above. The Contractor will not be entitled to an increase in the Contract Amount as stated in the last sentence of Section 10.7.3 if the Contractor or its Subcontractors of any tier are responsible for the condition requiring the testing of the material and the stoppage of the Work. Remediation Work must be conducted by properly qualified contractors approved in advance by Metro. Generally, Metro may at its option contract directly with environmental consultants and remediation contractors, regardless of whether the Work will be performed at the Contractor's expense.

10.7.5 To the fullest extent permitted by law, Metro will indemnify the Contractor, Subcontractors, Architect, Architect's consultants and agents, and employees of any of them and hold them harmless from and against claims, damages, losses, and expenses, including without limitation attorney fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance was not introduced to the Project Site by the Contractor or its Subcontractors of any tier, presents the risk of bodily injury or death, and has not been rendered harmless. No indemnification provided by Metro under this Section will be required to indemnify the Contractor, Subcontractors, or their employees or agents to the extent of liability for death or bodily injury to persons or damage to property caused in whole or in part by the Contractor's own negligence, but will require indemnity to the extent of the fault of Metro or its agents or representatives.

10.7.6 To the fullest extent permitted by law, the Contractor will indemnify Metro, the Project Manager, and employees of any of them and hold them harmless from and against claims, damages, losses, and expenses, including without limitation attorney fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance was introduced to the Project Site by the Contractor or its Subcontractors of any tier, presents the risk of bodily injury or death, and has not been rendered harmless. No indemnification provided by the Contractor under this Section will be required to indemnify Metro or its agents or representatives to the extent of liability for death or bodily injury to persons or damage to property caused in whole or in part by Metro's own negligence, but will require indemnity to the extent of the fault of the Contractor or its agents or representatives.

10.8 Additional Requirements for Work at Metro Project Sites. The Contractor will comply with the following requirements in addition to the requirements set forth in this Article 10.

10.8.1 Safety and Health Precautions.

10.8.1.1 Contractor shall take all precautions to prevent the possibility of fire resulting from construction operations. Contractor will provide emergency fire extinguishing equipment of adequate type and quantity, readily available, and properly maintained. Contractor shall provide a fire watch and screening whenever welding is in progress in areas accessible or visible to Metro staff or the general public.

10.8.1.2 All contracted employees are expected to follow established safety procedures in the General Contractor's Safety Plan and report any safety violation or unsafe work practice to a lead worker or project manager. Violation of any safety procedure is a serious offense due to the severe consequences that may result and must be reported immediately. It is most important to report safety violations and unsafe work practices to individuals who can take immediate action to resolve the problem.

10.8.1.3 Vests and hardhats (as well as other personal protection attire as required by the General Contractor) are required to be worn at construction worksites. Contractors shall wear such vests at all times on the Project Site.

10.8.1.4 Any physical, mental, or emotional condition that may affect a Contractor or Subcontractor employee's ability to work safely, make sound judgments, or compromise their ability to react quickly in the event of an emergency, must be reported to their lead or project manager prior to the start of their shift.

10.8.1.5 For safety reasons, IPods, MP3 players, and other sound devices requiring earphones are prohibited during working hours.

10.8.1.6 The Contractor will provide warning signs, flagger(s), and other safety and health precautions that may become necessary or required for protection of Work or for protection of the public, Owner's

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personnel, and construction personnel, including Owner's and Architect's Representatives engaged on the Project. State of Oregon Workmen's Compensation Board Safety Codes for Construction Work and Federal Safety Codes, form a part of these Specifications.

10.8.2 <u>Access to Metro Project Site</u>. Contractor and Subcontractors will comply with the following requirements:

10.8.2.1 Locations for access to the Project Site by Contractor and Subcontractors shall be approved by the Project Manager.

10.8.2.2 The Contractor's representatives must always be on the premises when Subcontractors are working. Identification will be issued and worn for General Contractor's representatives.

10.8.2.3 The Contractor will keep a log of all Subcontractors that are working on-site each day. Subcontractors must always sign in with the Contractor and wear identification issued by the Contractor.

10.8.2.4 Construction on the Project Site is limited to 7 am to 5 pm, Monday through Friday, unless Work at other times is approved in advance by the Project Manager.

10.8.2.5 When Contractor needs access throughout the day to an area that is normally secured and inaccessible to visitors, the Project Manager will provide "contractor locks" and keys, and Contractor must keep said areas secure.

10.8.2.6 Contractor will ensure that all of its and Subcontractors' officers, employees, and agents are aware of and comply with the access requirements in this Section 10.8.2.

10.8.3 Site Protection/Safety.

10.8.3.1 The Project Site may be in operation and open to the public during construction of the Work. Construction Work in and around Owner's buildings occupied by Metro personnel or frequented by the public shall be conducted in such a manner as to permit such operation without jeopardy and with the absolute minimum of inconvenience to occupants and the public.

10.8.3.2 Metro may restrict hours of work to accommodate Metro activities or special

events.

10.8.3.3 Construction Work that requires coordination with Metro staff activities will be planned in advance with the Project Manager. A meeting will be held with Metro staff to identify a plan for the activity.

10.8.3.4 The Contractor will take every precaution to minimize noise, spreading of dust and debris, causing undue vibrations or impacts, and other nuisances. The Contractor shall do no structural or other damage to any in-place improvements.

10.8.3.5 Metro-owned tools, vehicles, and other equipment may not be used at any time.

10.8.3.5.1 <u>Tree/Vegetation Protection</u>. The Contractor shall comply with the local government regulations applicable to the Project, and shall consult with the Project Manager prior to doing work that could impact the health of a tree or vegetation not scheduled for removal by contract documents.

10.8.4 Personnel and Subcontractors.

10.8.4.1 Smoking is prohibited in all areas of the Project Site except in designated smoking areas. Contractor and Project Manager to determine a designated smoking area.

10.8.5 Prejudicial remarks, actions, slurs, and jokes in the workplace that are offensive to people relative to their race, color, religion, national origin, sex, age, marital status, veteran status, disability, or sexual orientation are strictly prohibited. Sexual harassment is strictly prohibited. Contractors are expected to use a reasonable person's standard of good judgment in their working relationships. No person shall be subjected to deliberate or repeated unsolicited verbal comments, gestures, or physical contact of a sexual nature, or that which is offensive, hostile, or intimidating.

10.8.6 Restrictions:

10.8.6.1 Contractors are not allowed to bring the following items onto the Project Site:

10.8.6.1.1 Weapons

10.8.6.1.2 Alcohol, narcotics

10.8.6.1.3 Skates/Skateboards/Rollerblades/Wheelies

10.8.6.1.4 Bicycles (if a Contractor employee is commuting to the Project Site via bicycle, arrangements can be made for appropriate parking and use).

10.8.6.1.5 Pets

10.8.7 Prohibited Conduct:

10.8.7.1 The following conduct is strictly prohibited and will result in the immediate ejection of the offending Contractor employee or Subcontractor from Project Site premises:

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	10.8.7.1.1	Possessing, using, transferring, offering, or being under the influence		
of any intoxicants or narcotics during working hours.				
	10.8.7.1.2	Willful deceit, gross negligence, or theft, including of personal or		
public property.				
	10.8.7.1.3	Neglect of duty, violation of Metro ordinances, regulations, and		
directives.				
	10.8.7.1.4	Willful or repeated negligent violation of established safety policies		
and procedures.	100715			
Mada	10.8.7.1.5	Possessing a firearm, illegal weapons, fireworks, or explosive device		
on Metro property				
		Harassment, discourteous treatment of any kind, or discrimination to		
staff, volunteers, or members of the	e public. Obs	scenities, profanity, yelling, shouting, abusive, or maligning tone of		
voice and/or language is considered discourteous and is prohibited.				
· -	10.8.7.1.7	Misuse of Metro property.		

ARTICLE 11 INDEMNIFICATION

11.1 Indemnification.

- 11.1.1 Contractor shall assume all responsibility for the Work and shall bear all losses and damages directly or indirectly resulting to Contractor, Metro, Architect, their officers, agents, and employees, or to others on account of the character or performance of the Work or accidents.
- 11.1.2 Contractor shall defend, indemnify, and hold harmless Metro, its officers, agents, and employees from all claims, liability, loss, damage, consequential or otherwise, and injury of every kind, nature, and description, directly or indirectly resulting from activities in the performance of the Contract, the ownership, maintenance, or use of motor vehicles in connection therewith, or the acts, omissions, operations, or conduct of Contractor or any Subcontractor or Supplier under the Contract in any way arising out of the Contract, irrespective of whether fault is the basis of the liability or claim.
- 11.1.3 Any specific duty or liability imposed or assumed by Contractor, as may be otherwise set forth in the Contract Documents, shall not be construed as a limitation or restriction of the general liability or duty imposed upon Contractor by this Section.
- 11.1.4 Such liabilities and losses from which Contractor shall indemnify and hold harmless the above-described indemnities shall include but not be limited to:
- 11.1.4.1 Special activities by Metro to verify and/or expedite delivery of materials and those losses incurred by Metro as a result of any delays to Other Metro Contractors resulting from acts of Contractor or its failure to act.
- 11.1.4.2 Acceleration payments to Other Metro Contractors on the Project or related projects resulting from Contractor falling behind the Construction Schedule for causes not entitling it to an extension of Contract Time under any provisions of the Contract Documents that cause other Metro Contractors to fall behind the Construction Schedule so that they must then accelerate the performance of the Work, as directed by Metro, in order to maintain progress.
- 11.1.4.3 Violations of the ordinances or regulations of Metro, any federal, state, county, or city laws or order of any properly constituted authority in any manner affecting this Contract, in addition to any laws or regulations that might affect this Contract.
- 11.1.5 Any and all suits, actions, damages, or claims of every name and description to which the above-indemnified may be subjected or put by reason of injury to persons or property arising out of, in connection with, or incident to the execution of the Work, or resulting from acts or omissions on the part of Contractor, its Subcontractors, officers, employees, or agents, and all attorney fees and court costs incident thereto.
- 11.1.6 No indemnification provided by the Contractor under this Article 11 or insurance provided under Article 12 will be required to indemnify Metro or its employees or agents to the extent of liability for death or bodily injury to persons or damage to property caused in whole or in part by their own negligence, but will require indemnity to the extent of the fault of the Contractor or those entities or persons for whom the Contractor is responsible.

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ARTICLE 12 INSURANCE

- General Insurance Requirement. The Contractor will purchase from and maintain in a company or companies lawfully authorized to do business in the State of Oregon such insurance as will protect the Contractor from claims set forth below that may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:
- 12.1.1 Claims under workers' compensation, disability benefit, and other similar employee benefit acts that are applicable to the Work to be performed;
- 12.1.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;
- 12.1.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;
- 12.1.4 Claims for damages insured by usual personal injury liability coverage and commercial general liability coverage (or its equivalent as approved in advance by the Owner);
- 12.1.5 Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom:
- 12.1.6 Claims for damages because of bodily injury, death of a person, or property damage arising out of ownership, maintenance, or use of a motor vehicle:
 - 12.1.7 Claims for bodily injury or property damage arising out of completed operations;
- 12.1.8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Article 12 of the General Conditions;
- 12.1.9 Claims for third-party injury and property damage (including without limitation clean-up costs) as a result of pollution conditions arising from the Contractor's operations or completed operations; and
- 12.1.10 Claims involving the Contractor's professional liability, solely to the extent that the Contractor accepts design or design/build responsibilities under the Contract.
- Required Coverage. Without waiver of any other requirement of the Contract Documents, the 12.2 Contractor will provide, pay for, and maintain in full force and effect at all times during the performance of the Work until final acceptance of the Work or for such further duration as required, the following policies of insurance issued by a responsible carrier. All of the Contractor's insurance carriers will be rated A VII or better by A.M. Best's rating service, unless otherwise approved by the Owner.
- 12.2.1 Workers' Compensation: Workers' compensation coverage sufficient to meet statutory liability limits.
- 12.2.2 Employer's Liability: The Contractor will purchase and maintain employer's liability insurance in addition to its workers' compensation coverage with at least the minimum limits in Section I.C below.
- 12.2.3 Commercial General Liability: The Contractor will purchase and maintain commercial general liability ("CGL") insurance on an occurrence basis, written on ISO Form CG 0001 (12/04 or later) or an equivalent form approved in advance by the Owner. CGL coverage will include all major coverage categories including bodily injury, property damage, and products/completed operations coverage maintained for at least six years following final payment. The CGL insurance will also include the following: (a) separation of insured; (b) incidental medical malpractice; and (c) per-project aggregate for premises operations.
- 12.2.4 <u>Professional Liability/Errors and Omissions</u>: To the extent that the Contractor accepts design or design/build responsibilities, the Contractor will purchase and maintain professional liability/errors and omissions insurance and cause those Subcontractors providing design services do so.
- 12.2.5 Automobile Liability: The Contractor will purchase and maintain automobile liability insurance with coverage for owned, hired, and non-owned vehicles on ISO form CA 00 01 or an equivalent form approved in advance by the Owner. The automobile liability insurance will include pollution liability coverage resulting from vehicle overturn and collision.
- 12.2.6 Pollution Liability: The Contractor will purchase a contractors' pollution liability policy. Coverage will include third-party claims for bodily injury, property damage, and environmental damage resulting from pollution conditions caused during the performance of covered operations for both on-site and migrating from the job site. Such coverage will include pollution conditions arising from covered operations including work performed by its Subcontractors and third-party claims against the Contractor alleging improper supervision of its Subcontractors.

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- 12.2.7 Commercial Umbrella/Excess Coverage: The Contractor will purchase or maintain a commercial umbrella or excess liability policy to meet the minimum limits as described below in Section I.C. Commercial umbrella/excess liability coverage will include: (a) "Pay on behalf of" wording; (b) concurrency of effective dates with primary coverage; (c) punitive damages coverage (where not prohibited by law); (d) application of aggregate (where applicable) in primary coverage; (e) "care, custody, and control" coverage that follows the form for primary coverage; and (f) drop-down feature. Excess/umbrella coverage will be scheduled to the CGL, employer's liability, and automobile liability policies.
- **12.3 Limits.** The insurance required by this Article 12 will be written for at least the limits of liability specified in this Section or required by law, whichever is greatest.

12.3.1	Workers' (Compensation	Statutory Limits
	Employer'		•
	12.3.2.1	Each Accident	\$1,000,000
	12.3.2.2	Each Bodily Injury/Disease	\$1,000,000
	12.3.2.3	Aggregate Bodily Injury/Disease	\$1,000,000
12.3.3	Commerc	cial General Liability	
	12.3.3.1	Each Occurrence	\$2,000,000
	12.3.3.2	General Aggregate	\$2,000,000
	12.3.3.3	Product/Completed Operations	\$2,000,000
	12.3.3.4	Personal & Advertising Injury	\$2,000,000
	12.3.3.5	Fire Damage Limit	
	12.3.3.6	Medical Expense Limit	\$2,000,000
12.3.4	<u>Automobil</u>	<u>e Liability</u>	
	12.3.4.1	Combined Single Limit	\$2,000,000
12.3.5	Pollution L		
	12.3.5.1	Single Limit	\$2,000,000
	12.3.5.2	Aggregate	\$2,000,000
12.3.6		ial Umbrella/Excess Coverage	
	12.3.6.1	Each Occurrence Alternates: Ma	in. \$2,000,000/\$5,000,000/\$10,000,000

- **12.4** Additional Insureds. The Contractor's third-party liability insurance policies will include the Owner and its officers, employees, agents, volunteers, partners, successors, and assigns as additional insureds. The policy endorsement must extend premise operations and products/completed operations to the additional insureds. The additional insured endorsement for the CGL insurance must be written on ISO Form CG 2010 (11/85), a CG 2037 (07/04) together with CG 2033 (07/04), or the equivalent, but will not use the following forms: CG 20 10 (10 93) or CG 20 10 (03 94).
- **12.5 Joint Venture.** If the Contractor is a joint venture, the joint venture will be a named insured for the liability insurance policies.
- **12.6 Primary Coverage.** The Contractor's insurance will be primary insurance coverage and may not seek contribution from any insurance or self-insurance carried by the Owner or the Architect, including any property damage coverage carried by the Owner. Contractor's insurance will apply separately to each insured against whom a claim is made or suit is brought. The Contractor's insurance will not include any cross-suit exclusion or preclude an additional insured party from asserting a claim as a third party.
- 12.7 Contractor's Failure to Maintain Insurance. If for any reason the Contractor fails to maintain required insurance coverage, such failure will be deemed a material breach of the Contract and the Owner, at its sole discretion, may suspend or terminate the Contract for cause pursuant to Article 15 of this Contract. The Owner may, but has no obligation to, purchase such required insurance, and without further notice to the Contractor, the Owner may deduct from the Contract Sum any premium costs advanced by the Owner for such insurance. Failure to maintain the insurance coverage required by this Article 12 will not waive the Contractor's obligations to the Owner.
- **12.8 Certificates of Insurance.** The Contractor will supply to the Owner Certificates of Insurance for the insurance policies described in this Article 12 prior to the commencement of the Work and before bringing any equipment or construction personnel onto the Project site.
- 12.8.1 <u>Additional Certificates.</u> To the extent that the Contractor's insurance coverages are required to remain in force after final payment and are reasonably available, an additional certificate evidencing continuation of such coverage will be submitted with the final application for payment. Information concerning reduction of coverage because of revised limits or claims paid under the general aggregate, or both, will be furnished by the Contractor with reasonable promptness in accordance with the Contractor's information and belief.

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- 12.8.2 <u>Prohibition Until Certificates Received.</u> The Owner will have the right, but not the obligation, to prohibit the Contractor and its Subcontractors from entering the Project site until the required certificates (or other competent evidence that insurance has been obtained in complete compliance with this Article 12) are received and approved by the Owner.
- 12.8.3 <u>Deductibles/Self-Insured Retentions</u>: Payment of deductibles or self-insured retention is a Cost of the Work and does not justify a Change Order. Satisfaction of all self-insured retentions or deductibles will be the sole responsibility of the Contractor.
- 12.9 Subcontractor Insurance. The Contractor will cause each Subcontractor to purchase and maintain in full force and effect policies of insurance as specified in this Article 12, except that the coverage limits shall be at least \$1,000,000 combined single limit for each occurrence and in the aggregate. The Contractor will be responsible for the Subcontractors' coverage if the Subcontractors fail to purchase and maintain the required insurance. When requested by the Owner, the Contractor will furnish copies of Certificates of Insurance establishing coverage for each Subcontractor.

12.10 Limitations on Coverage.

- 12.10.1 No insurance provided by the Contractor under this Article 12 will be required to indemnify the Owner, the Architect, or their employees or agents to the extent of liability for death or bodily injury to persons or damage to property caused in whole or in part by their own negligence, but will require indemnity to the extent of the fault of the Contractor or its agents, representatives, or Subcontractors.
- 12.10.2 The obligations of the Contractor under this Article 12 will not extend to the liability of the Architect or its consultants for (a) the preparation or approval of maps, drawings, opinions, reports, surveys, Change Orders, designs, or specifications; or (b) the giving or failure to give directions or instructions to the extent that the directions, or failure to provide directions, are the cause of the injury or damage.
- 12.10.3 By requiring insurance, the Owner does not represent that coverage and limits will necessarily be adequate to protect the Contractor. Insurance in effect or procured by the Contractor will not reduce or limit the Contractor's contractual obligations to indemnify and defend the Owner for claims or suits that result from or are connected with the performance of the Contract.

12.11 Property Insurance

- 12.11.1 <u>Builders Risk</u>. Contractor, for the life of this Contract, shall effect and maintain Builders All Risk Insurance and fire insurance with extended coverage and malicious mischief coverage upon the structures on which the Work of this Contract is to be done to 100 percent (100%) of the insurable value thereof, protecting (1) Owner's interest; (2) Contractor's interest; and (3) the Subcontractor's interest in the Work. Contractor's interest and Subcontractor's interest, as used herein, means their property interests and the property interests of others for which they are responsible in the Project, in all materials and supplies entering into or used or destined for use therein, and in all expendable items of equipment that are used in or are incidental to but that do not become a part of the finished Project, located at the job Site at the time of loss or damage. Such insurance shall not exclude coverage for landslides, collapse, explosion, or loss due to the result of faulty workmanship. Such insurance will include coverage for soft costs or delay in opening.
- 12.11.1.1 Contractor and all Subcontractors shall be responsible for any loss or damage to their machinery and apparatus and nonexpendable items of their equipment.
- 12.11.1.2 Contractor shall provide adequate fire protection equipment and safeguards to protect Metro and Contractor's interests in accordance with Metro's insurance carrier's requirements.
- 12.11.1.3 Contractor will furnish copies of Certificates of Insurance establishing coverage prior to project start.
- 12.11.2 <u>Contractor's Responsibility</u>. Contractor must provide insurance for its own machinery, tools, equipment, or supplies that are not to become a part of the Project.

ARTICLE 13

MINORITY/WOMEN/EMERGING SMALL BUSINESS PROGRAM

- **13.1** Contractor shall comply with all pertinent provisions of Metro's MWESB Business Program that are contained in Metro Code 2.04.100 to 2.04.190 and that are by this reference expressly incorporated herein and made a part of this Contract.
- 13.2 Contractor shall not replace a minority, women-owned or emerging small business enterprise Subcontractor with another Subcontractor, either before Contract Award or during Contract performance, without prior written approval of Metro. In replacing a minority, women-owned or emerging small business Subcontractor, Contractor shall replace such minority, women-owned or emerging small business Subcontractor with another

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certified minority, women-owned or emerging small business Subcontractor or make good faith efforts to do so. Failure to do so shall constitute Contractor's default of this Contract, and Metro, at its option, may terminate this Contract under the procedures set out in Article 15.

13.3 Metro reserves the right, at all times during the period of this Contract, to monitor Contractor's compliance with the terms of the MWESB Business Program and enforce the program if Contractor should fail to so comply. Contractor shall be bound by any and all representations made concerning its compliance with the program prior to Contract Award and any and all representations made by Contractor concerning the replacement of a minority or women-owned business Subcontractor during the performance of this Contract.

13.4 MWESB Participation in the Contract.

- 13.4.1 It is Metro's policy that Contractor shall take reasonable steps to ensure that Minority Business Enterprises (MBE), Women Business Enterprises (WBE), and Emerging Small Businesses (ESB) have the opportunity to participate in the Work.
- 13.4.2 <u>Termination and Substitution of MWESB</u>. The Contractor shall notify Metro in writing and confer with Metro before terminating or replacing a MWESB that has a signed contract with the Contractor.
- 13.4.3 <u>Changes in Work Committed to MWESB</u>. Metro will consider the impact on MWESB participation in instances where Metro changes, reduces, or deletes Work contracted to MWESB firms at the time of Contract Award. In such instances, the Contractor shall not be required to replace the Work but is encouraged to do so. If the Contractor proposes any changes that involve a contracted MWESB, the Contractor shall notify the MWESB of the proposed change, reduction, or deletion of any Work committed at the time of Contract Award prior to executing the Change Order. The Contractor can choose to enable the affected MWESB to participate in the Change Order request and is requested to make every effort to maintain the contracted MWESB percentage.
- 13.4.4 Contractor Payments to Subcontractors. The Contractor shall maintain records of all subcontracts entered into with MWESB firms and records of materials purchased from MWESB suppliers. Such records shall show the name and business address of each MWESB subcontractor or vendor and the total dollar amount actually paid to each MWESB subcontractor or vendor. The Contractor shall pay each subcontractor for satisfactory performance of its contract no later than ten (10) Calendar Days from receipt of each payment the Contractor receives from Metro. The Contractor shall also return Retainage payments to each subcontractor within ten (10) Calendar Days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above-referenced time frame may occur only for good cause following written approval of the Metro Project Manager. The Contractor shall submit a completed, signed original "Metro Monthly Subcontractor Payment and Utilization Report," available from Metro. The Contractor shall submit the form when a progress or final payment has been made to each subcontractor or supplier or when any held retainage is returned to a subcontractor or supplier. Contractor shall submit the form no later than the fifth day of each month. At the completion of the Project, Contractors shall submit a final form indicating the total amounts paid to all subcontractors and suppliers.

ARTICLE 14 MISCELLANEOUS STATUTORY RESPONSIBILITIES OF CONTRACTOR

Contractor shall keep itself fully informed of and shall fully comply with all federal, state, regional, and local laws, rules, regulations, ordinances, and orders pertaining in any manner to this Contract and those rules, regulations, and orders of any agency or authority having jurisdiction over the Work or those persons employed or engaged therein. Contractor shall pay all taxes, including federal, state, regional, county, and city, or taxes of any other governmental entity applicable to the Work performed or materials provided under this Contract.

ARTICLE 15 TERMINATION OR SUSPENSION OF THE WORK

15.1 Default of Contractor.

15.1.1 If Contractor should be adjudged bankrupt, or if Contractor should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of insolvency, or if Contractor should refuse to or fail to supply enough properly skilled workers or proper materials for the efficient prosecution of the Work, disregard laws, ordinances, or the instructions of Metro, or otherwise be in violation of any provision of the Contract, Metro may, without prejudice to any other right or remedy and after giving Contractor and Contractor's surety on the Performance Bond prior written notice, terminate the Contract or any portion of the Contract, which termination shall be effective ten (10) days after service of such notice. Such notice shall contain the reasons for the termination and shall state that unless, within ten (10) calendar days of service of the termination notice on Contractor, Contractor or its

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surety on the Performance Bond shall have cured or shall have made, in Metro's opinion, appropriate arrangements for prompt cure of all of the cause(s) for termination cited in the notice of termination, the Contract shall terminate.

- 15.1.2 Upon termination, Metro may take possession of the premises and of all materials, tools, and appliances thereon, as well as all other materials whether on the premises or not, for which Contractor has received partial payment, and may finish the Work or the portion terminated by whatever method it may deem expedient.
- shall provide Metro with immediate and peaceful possession of all of the materials, tools, and appliances located on the premises, as well as all other materials whether on the premises or not, for which Contractor has received any progress payment. Upon termination, in the event that the surety does not complete the Contract, at the election of Metro, Contractor shall assign any and all subcontracts and material contracts to Metro or Metro's designee. Further, Contractor shall not be entitled to receive any further payment until the Work is completed. On completion of the Work, determination shall be made by Metro of the total amount Contractor would have been entitled to receive for the Work under the terms of the Contract had Contractor completed the Work. If the difference between said total amount and the sum of all amounts previously paid to Contractor, which difference will hereinafter be called the "unpaid balance," exceeds the expense incurred by Metro in completing the Work, including expense for additional managerial and administrative service, and all other costs, damages, and expenses incurred by Metro due to Contractor's failure to complete the Contract, such excess will be paid to Contractor, with the consent of the surety. If, instead, the described expenses incurred by Metro exceed the unpaid balance, the amount of the excess shall be paid to Metro by Contractor or its surety. If only a portion of the Contract is terminated, this Section shall be deemed to apply to that portion of the Work only.
- 15.1.4 In addition to the above-mentioned right, Metro shall have the right, at its option, to suspend all or part of Contractor's performance under the Contract should any of the events occur that give Metro the right to terminate the Contract as above described. In such event, Metro shall give Contractor and Contractor's surety prior written notice of such suspension and Contractor shall stop or cause to stop all such Work under the Contract immediately on receipt of such notice and shall not commence such Work under the Contract again unless and until Contractor shall receive written notice from Metro to proceed. Metro shall not be responsible or liable to Contractor or others for any costs or expenses of whatever nature related to Contractor's failure to stop Work as directed by Metro.
- 15.1.5 After receipt of a notice of termination or suspension, and except as otherwise directed by Metro, Contractor shall as it relates to those portions of the Contract terminated or suspended:
- 15.1.5.1 Stop Work under the Contract on the date and to the extent specified in the notice of termination or suspension.
- 15.1.5.2 Place no further orders or subcontracts, or suspend the same, as applicable, for materials, services, or facilities except as necessary to complete the portion of the Work under the Contract that is not terminated or suspended.
- 15.1.5.3 Terminate or suspend, as applicable, all orders and subcontracts to the extent that they relate to the performance of such Work terminated or suspended.
- 15.1.6 Metro may, at its discretion, avail itself of any or all of the above rights or remedies and its invoking of any one of the above rights or remedies will not prejudice or preclude Metro from subsequently invoking any other right or remedy set forth above or elsewhere in the Contract.
- 15.1.7 None of the foregoing provisions shall be construed to require Metro to complete the Work nor to waive or in any way limit or modify the provisions of the Contract relating to the fixed and liquidated damages suffered by Metro on account of failure to complete the Project within the time prescribed.

15.2 Termination in the Public Interest.

- 15.2.1 Metro may unilaterally terminate the Contract in whole or in part for convenience, when Metro determines it to be in the public interest.
- 15.2.2 When Metro decides to terminate a Contract for convenience, Metro will notify the Contractor and its sureties in writing of its intention to terminate the Contractor's right to proceed with the Work no less than seven (7) days in advance of the date of the actual termination. The date of termination, which is the date after which no Work is to be performed, must be stated in the notice. Notice will be deemed to have been given if sent to the Contractor's or any surety's last known address provided to Metro by the Contractor and its sureties. For purposes of computing time in this Section, the first day counted is the day that the notice is mailed by Metro.
- 15.2.3 After receipt of a notice of termination, and except as directed by Metro, the Contractor will immediately proceed with the following obligations:
 - 15.2.3.1 Stop Work by the date as specified in the notice:

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15.2.3.2 Award no further subcontracts and place no further orders for materials, services, or facilities, except as necessary to complete the continued portion of the Contract, if any;

15.2.3.3 Terminate all Subcontractors and orders to the extent that they relate to the Work

terminated;

15.2.3.4 Assign to Metro, if directed by Project Manager, all right, title, and interest of the Contractor under the subcontracts terminated, in which case Metro will have the right to settle or to pay any termination settlement proposals arising out of those terminations;

15.2.3.5 With approval or ratification to the extent required by Metro, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts; the approval or ratification will be final for purposes of this clause;

15.2.3.6 As directed by Metro, transfer title and deliver to Metro (a) the fabricated or unfabricated parts, Work in process, completed Work, supplies, and other materials produced or acquired for the Work terminated, and (b) the completed or partially completed plans, drawings, information, and other property that, if the Contract had been completed, would be required to be furnished to Metro;

15.2.3.7 Take any actions that may be necessary, or that Project Manager may direct, for the protection and preservation of the property related to this Contract that is in the possession of the Contractor and in which Metro has or may acquire an interest; and

15.2.3.8 Use its best efforts to sell, as directed or authorized by Project Manager, any property of the type referred to in Section 14.2.3.6 above, except that the Contractor (a) is not required to extend credit to any purchaser and (b) may acquire the property under the conditions prescribed by, and at prices approved by, the Project Manager. The process of any transfer or disposition will be applied to reduce any payments to be made by Metro under this Contract, credited to the price or cost of the Work, or paid in any other manner directed by Project Manager.

15.2.4 Upon termination, Metro will pay the Contractor the following costs, and no other, as a result of the termination:

15.2.4.1 With regard to the Contract Work performed before the effective date of termination, the total (without duplication of any items) of the following costs:

15.2.4.1.1 The cost of this Work, as determined by the method of payment established by the Contract Documents;

15.2.4.1.2 The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the Contract if such costs are not included in Section 14.2.3.4; and

15.2.4.1.3 A sum as profit on Section 14.2.4.1.1 above, not to exceed ten percent of that amount, unless it appears that the Contractor would have sustained a loss on the entire Contract had it been completed. No profit, however, is permitted on costs compensated under Section 14.2.4.1.2.

15.2.4.2 The reasonable costs of settlement of the Work terminated, including:

15.2.4.2.1 Accounting, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data, except that no allowance will be made for costs incurred as attorney fees;

15.2.4.2.2 The termination and settlement of Subcontractors (excluding the

amounts of such settlements); and

15.2.4.2.3 Storage, transportation, and other costs incurred reasonably necessary for the preservation, protection, or disposition of the termination inventory.

15.2.5 No costs other than those allowed in Section 14.2.4 are to be paid. By way of example only, and not by way of limitation, costs that would not be allowed include anticipated profits on unperformed Work, consequential damages, post-termination overhead, Bid or Proposal preparation costs, costs for retraining employees, depreciation on idle equipment, cost of common items reasonably usable on the Contractor's other work, and costs unrelated to the Work performed prior to the date of termination.

15.2.6 Metro may deduct from any sums otherwise due the Contractor under Section 14.2.4 above the cost of advance payments made to the Contractor under the terminated portion of this Contract, any claim that Metro has against the Contractor whether or not arising from this Contract, and the agreed price of, or proceeds of sale of, materials, supplies, or other things acquired by the Contractor or sold under the provision of Section 14.2.3.8 and not recovered by or credited to Metro.

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15.2.7 Payment from Metro is not due until the Contractor has submitted an itemization of its recoverable costs to Metro in writing, together with supporting documentation. The Contractor will supply additional supporting documentation on request by Metro in order to recover its costs.

15.2.8 The Contractor will maintain all records and documents relating to the termination until Metro and the Contractor resolve the amount of costs to be paid by Metro to the Contractor as a result of this termination. Such records must be made available to Metro within thirty (30) days of the request.

END OF SECTION



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METRO GENERAL CONDITIONS - EXHIBIT 1

WARRANTY FORM

We the undersigned hereby warrant that the [DESCRIBE WORK PERFORMED OR MATERIALS SUPPLIED].that we have provided for [INSERT PROJECT NAME] has been done in accordance with the Contract Documents and that the Work as provided will fulfill the requirements of the warranty included in Article 7 of the Metro General Conditions.

We agree to correct or remove and replace any or all of our Work, together with any other adjacent Work that may be displaced or affected by so doing, that may be defective in its workmanship or materials, or that may fail to conform to the requirements of the Contract Documents, within a period of one (1) year following the later of the date of substantial completion or the date described in Section 7.7 of the Metro General Conditions, without any expense whatsoever to Metro, normal wear and tear and mistreatment excepted.

In the event of our failure to comply with the above-mentioned conditions within twenty (20) calendar days after Metro notifies Contractor in writing, we collectively and separately do hereby authorize Metro to proceed to have said defects repaired and corrected at our expense, and we will honor and pay the costs to dispose of nonconforming materials and charges therefore upon demand. If Metro is required to enforce payment, it shall be entitled to recover its costs and reasonable attorney fees.

CONTRACTOR	SUBCONTRACTOR
Ву	Ву
Print Name	Print Name
Date	Date



MERC CONTRACT NO. 305007

METRO GENERAL CONDITIONS - EXHIBIT 2

SUBCONTRACTOR ASSIGNMENT OF ANTITRUST CLAIMS

Project:
Owner: Metro
General Contractor:
Subcontractor:
Release Date:
1. By entering into a contract with the General Contractor, subcontractor, for consideration paid to subcontractor under the subcontract, does irrevocably assign to Metro any claim for relief or cause of action that subcontractor now has or that may accrue to Subcontractor in the future, including at Metro's option, the right to control any such litigation on such claim for relief or cause o action, by reason of any violation of 15 USC Section 1 15, ORS 646.725, or ORS 646.730 in connection with any goods or service that are used, in whole or in part, for the purpose of carrying out subcontractor's obligations under its subcontract with the General Contractor.
2. Subcontractors irrevocably assigns to Metro, as a third-Party beneficiary of the subcontract, any right, title, or interest that has accrued or may accrue to the Subcontractor by reason of any violation of 15 USC Section 1 15, ORS 646.725, or ORS 646.730 including, at Metro's option, the rights to control any litigation arising hereunder, in connection with any goods or services provided to the Subcontractors or Suppliers by any person, in whole or in part, for the purpose of carrying out the Subcontractor's obligations a agreed to by Subcontractor in pursuance of the completion of the Contract.
3. It is an express obligation of Subcontractor that it will take no action that will in any way diminish the value of the right conveyed or assigned hereunder to Metro. It is an express obligation of Subcontractor to advise the Office of Metro Attorney:
a. In advance, of its intention to commence any action on its own behalf regarding such claims for relief or causes o action;
b. Immediately, upon becoming aware of the fact that an action has been commenced on its own behalf by some othe person or persons, of the impendency of such action; and
c. the date on which it notified the obligor(s) of any such claims for relief or causes of action of the fact of its assignment to Metro.
4. In the event that any payment under any such claim is made to Subcontractor, it shall promptly pay over to Metro it proportionate share thereof, if any, assigned to Metro herein.
SUBCONTRACTOR
By
Print Name
Date



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MERC CONTRACT NO. 305007

METRO GENERAL CONDITIONS - EXHIBIT 3

AFFIDAVIT, AGREEMENT FOR INDEMNITY, LIEN WAIVER AND RELEASE

(General Contractor – Progress Payment)

This AFFIDAVIT, AGREEMENT FOR INDEMNITY, LIEN WAIVER AND RELEASE Metro, a Metropolitan Service District established pursuant to Oregon law and the Metro Charter "Undersigned") in accord with Metro Contract No, dated, between Metro (the "Contract"). As a condition precedent to Metro's Progress Payment, and in consideration thereof, the Undersigned agrees to make the following represent indemnities, and to fully and completely waive, release, and discharge Metro from all liabilities, obligated follows:	r ("Metro") and, (the o and the Undersigned for construction of at No under the Contract in the amount of tations, warranties, covenants, agreements, and
1. The Undersigned hereby certifies, represents, and warrants as follows:	
1.1 It has supplied labor, services, equipment, materials, and materials provided or transported General Contractor under the Contract (the "Project"), and has subcontracted with other persons and en	
1.2 It has complied with all federal, state, and local laws, including social security laws, compensation laws, and tax laws, insofar as applicable to the performance of the Contract work, a including excise, use, sales, and withholding taxes.	
1.3 All subcontractors, laborers, service providers, equipment suppliers and material suppliers, or materials supplied to the Project or to the Undersigned and used in the Project have been paid covered by previous progress payments made by Metro.	
1.4 It either has paid in full, or within ten (10) business days of receipt of the above set subcontractors, laborers, service providers, equipment suppliers and material suppliers, and transport supplied to the Project or to the Undersigned connected with or used in the Project, through the peri Metro.	ters for work, services, equipment, or materials
1.5 It has delivered to Metro written releases of all rights to file claims on any bonds in subcontractor, service provider, and supplier who performed work or services, or furnished or transpot the Contract, in accord with Article 9 of the Metro General Conditions to the Contract.	
2. The Undersigned acknowledges and agrees that Progress Payments made by Metro up to the or Progress Payment No, when paid, constitute payment in full of all amounts due to Undermaterials provided or transported in connection with the Project up to and through, application No The Undersigned agrees that, <i>upon receipt of the above set forth progres</i> owing to Undersigned up to and through the date set forth in section 2, Undersigned will be paid in benefits), services, equipment, supplies, and materials provided or transported in connection with the Prother unsettled claims or demands therefore. The Undersigned agrees that, <i>conditioned upon receipt of</i> consideration thereof, the Undersigned hereby fully and unconditionally waives and releases Metro filien, rights to lien, bond claim rights, and any other claim for payment it now has or asserts or may materials, and materials provided or transported in connection with the Project through and up to sat land and improvements from any claim, cause of action, or demand whatsoever, arising out of or related.	rsigned for all labor, services, equipment, and, as set forth in the Undersigned's payment as payment, which is the full payment due and a full for all labor (including contributions and Project without exceptions, and that there are no of the above set forth progress payment, and in from all liability for payment, liens or claims of y have or assert for labor, services, equipment, iid date, and further releases Metro, the Project
3. The Undersigned hereby agrees to promptly pay and obtain a release of claims on any bonds defend, indemnify, and save Metro harmless from any liability or expense because of any claim on a under the Contract through and up to the date set forth in section 2.	
4. The affiant signing below does hereby swear and attest that he/she has the full authority to sign that Metro may rely on this Affidavit, Agreement for Lien Waiver and Release in connection with Undersigned.	
Dated: Affiant:	Its:
STATE OF OREGON)	16.
,	
County of) This instrument was acknowledged before me on by	

Notary Public - State of Oregon



600 NE Grand Ave. Portland, OR 97232-2736 503-797-1700

MERC CONTRACT NO. 305007

METRO GENERAL CONDITIONS - EXHIBIT 4

AFFIDAVIT, AGREEMENT FOR INDEMNITY, LIEN WAIVER AND RELEASE

(General Contractor – Final Closeout)

Metro, a Metropolitan Service Distric "Undersigned") in accord with Metro (t established pursuant to On Contract No, dated "). As a condition preced nt"), and in consideration there	egon law and the Mo , between Nent to Metro's final of, the Undersigned agree	Metro and the Undersigned for payment under the Contract, sees to make the following representations:	, (the construction of the in the amount of entations, warranties,
1. The Undersigned hereby certifies, re	presents and warrants as follow	s:		
1.1 It has supplied labor, service Contractor under Metro Contract No	es, equipment, materials or m (the "Project"), and has sub	aterials transported to to contracted with other pe	the construction of theersons and entities to so provide.	as General
1.2 It has complied with all fed compensation laws, and tax laws, insofa including excise, use, sales and withholdi	ar as applicable to the perforn			
1.3 All subcontractors, laborers, s or materials supplied to the Project or to covered by previous progress payments n	o the Undersigned and used in			
1.4 It either has paid in full, or v service providers, equipment suppliers are the Undersigned connected with or used it	d material suppliers and transp			
1.5 It has delivered to Metro wr subcontractor, service provider and suppl Contract, in accord with Article 9 of the C	ier who performed work, service	es or furnished or trans		
2. The Undersigned covenants and agree Payment in the amount of materials provided or transported in connin consideration thereof, the Undersigned claims, including all liens, claims of lien, for labor, services, equipment, materials improvements from any claim, cause of a	, constitute full and final paymection with the Project. The U hereby fully and unconditionarights to lien, bond claim right provided or transported in contact the contact of the contact	ent of all amounts due t indersigned agrees that, illy waives, discharges as and any other claim fo inection with the Contra	o Undersigned for all labor, serve conditioned upon receipt of the nd releases Metro from all liabil repayment it now has or asserts cact, and further releases Metro,	ices, equipment, and <i>Final Payment</i> , and ities, obligations and or may have or assert
3. The Undersigned hereby agrees to obond or any other claim related to the Con				
4. The affiant signing below does here that, <i>except for the Final Payment</i> , whic labor (including contributions and bene without exceptions, and that there are no rely on this Affidavit, Agreement for Inde	h is the full and final payment fits), services, equipment, sup- other unsettled claims or demai	due and owing to Under plies and materials provides therefore. The Under	signed, that Undersigned has be vided or transported in connect ersigned affiant further acknowle	en paid in full for all ion with the Project dges that Metro may
Dated:	Undersigned:			
	By:	Its:		
STATE OF OREGON)				
County of) ss.				
This instrument was acknowledged before of	e me on	by	as	
		Notary Public - S	State of Oregon	



503-797-1700

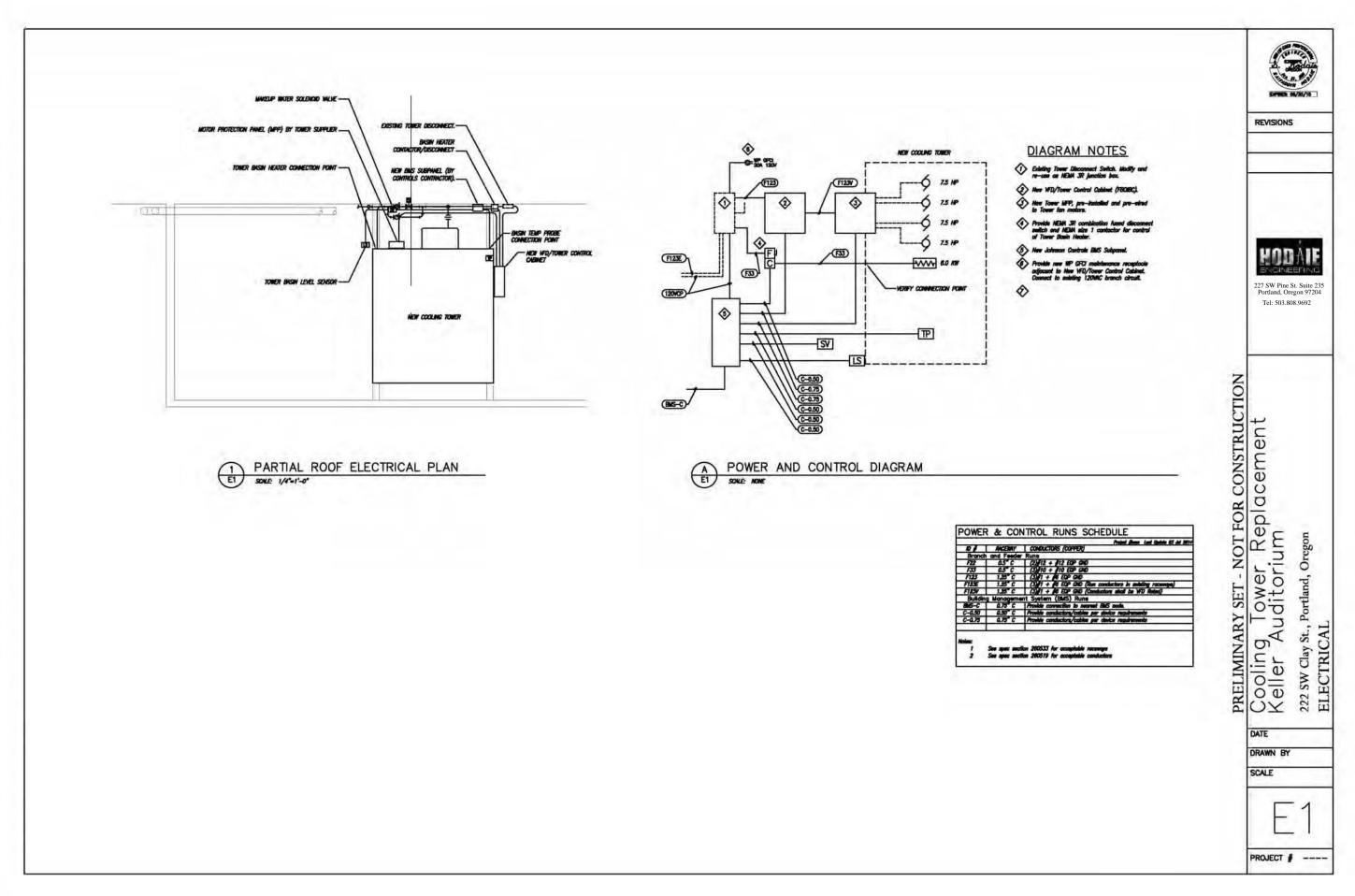
MERC CONTRACT NO. 305007

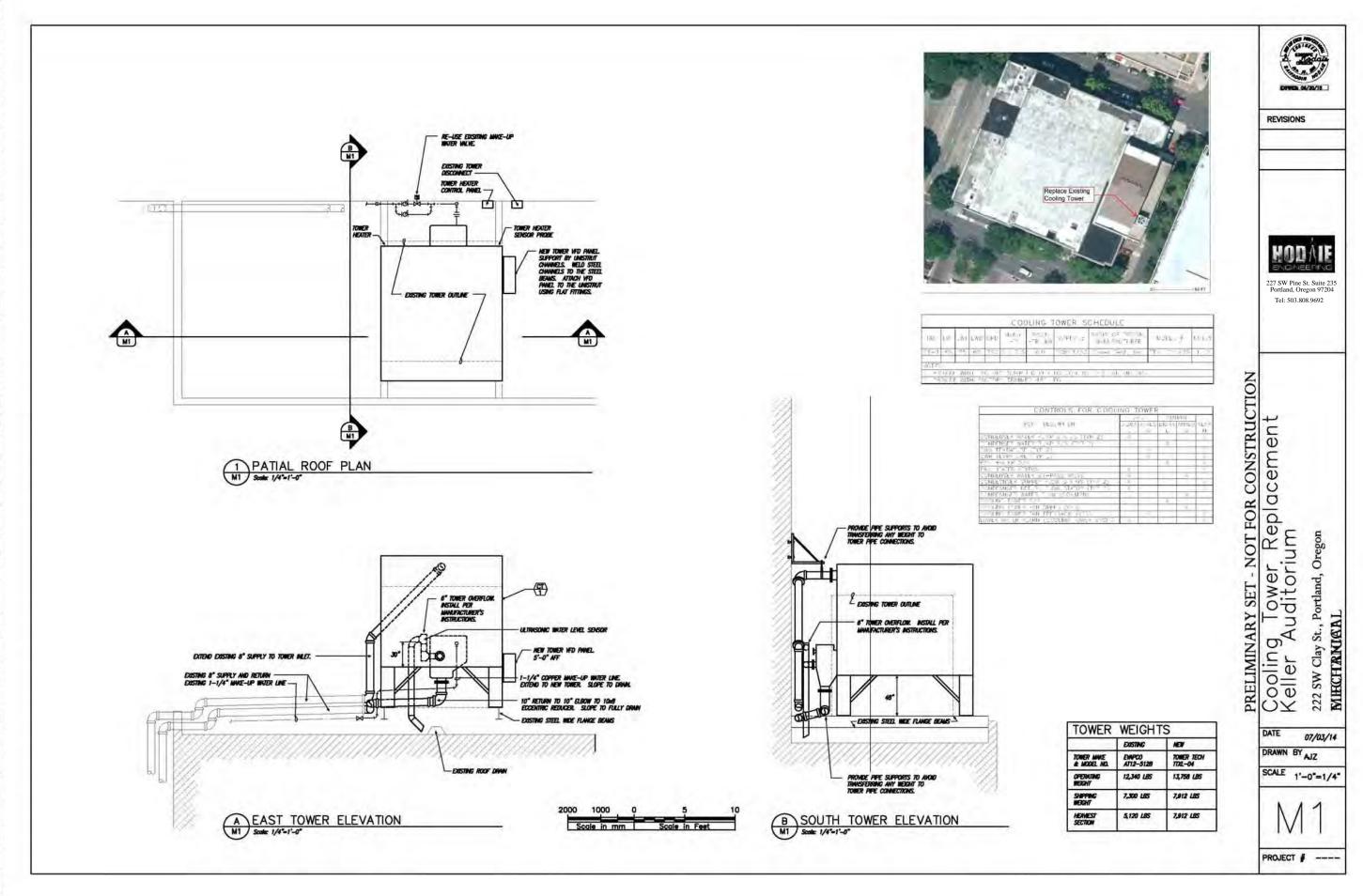
METRO GENERAL CONDITIONS - EXHIBIT 5

<u>AFFIDAVIT, LIEN WAIVER AND RELEASE - CONDITIONAL FINAL</u>

(Subcontractor - Closeout)

1. The undersigned services equipment	ed, materials or materials tra	nsport to the construct	tion of the	"Undersigned"),	has at	provided	labor,
						, as	a
Subcontractor to	("Contractor"),	Metro Contract No	(the "Project	.").		_	
amounts due to Undersi (the "Final Payment"). the Undersigned hereby other claim for payment connection with the Pro	ned acknowledges and agrees igned for all labor, services, The Undersigned agrees that fully and unconditionally was it now has or asserts or may ject, and further releases Men hatsoever arising out of or rela-	equipment, and materials it, <i>conditioned upon rece</i> nives and releases all liens have or assert for labor, stro, the Project land and in	provided or ipt of the Fin, claims of lie ervices, equi	transported in conal Payment, and en, rights to lien, pment, materials	onnection on cond bond cond provide	on with the nsideration t laim rights a ed or transpo	Project thereof, and any orted in
3. The Undersign	ed hereby certifies as follows	: :					
	complied with all federal, workers' compensation laws,						oyment
	orers, equipment suppliers as e by Contractor except as exp				eriod c	overed by p	revious
	er has paid in full, or within t t used in or furnished in conn		eceipt of the l	Final Payment, w	ill pay	in full for al	l labor,
the Undersigned and th Undersigned, that Under and materials provided demands therefore. The	ning below does hereby swe nat, <i>conditioned upon receip</i> ersigned has been paid in full or transported in connection we Undersigned affiant and fur connection with processing the	t of the Final Payment, for all labor (including co with the Project without ex rther acknowledges that N	which is the ontributions a ceptions, and	full and Final Pand benefits), serond that there are no	ayment vices, e o other	due and over quipment, s unsettled cl	wing to supplies aims or
Dated:	Undersigned	Subcontractor:					
Dated.	By:						
	Print Name:						
	Its:						
STATE OF OREGON)) ss.						
County of Multnomah)						
This instrument was ack	knowledged before me on	by			as		
of							
			Notary Publ	ic - State of Orego	n		





SPECIFICATIONS SECTIONS

23 00 00	HEATING VENTILATING AND AIR CONDITIONING (HVAC)
23 05 00	COMMON WORK RESULTS FOR HVAC
23 09 00	INSTRUMENTATION AND CONTROLS FOR HVAC
23 20 00	HVAC PIPING AND PUMPS
23 60 00	CENTRAL COOLING EQUIPMENT
26 05 01	COMMON ELECTRICAL REQUIREMENTS
26 05 05	COMMON ELECTRICAL MATERIALS AND METHODS
26 05 19	CONDUCTORS AND CONNECTORS
26 05 33	RACEWAYS AND CABLES

23 00 00 Heating Ventilating and Air Conditioning (HVAC)

Date: September 11, 2014

Subject: Addendum-1

Item-1: Specification Section 23 00 00 Action: Replace 1.01 B with following:

B. Scope Of Work (SOW) Summary Narrative: Remove existing cooling tower and replace with new as shown on drawings and specified herein. Reuse existing support beams for the new cooling tower installation. Structural calculations shall be provided by the Owner. Furnish and install new piping and piping supports as shown and specified. Provide all control sequences of operation as specified by a "Johnson Controls, Inc" certified professional. Provide services of "US Water Services" to provide condenser water treatment plans as specified. Install cooling tower fan VFD control panel furnished by the cooling tower manufacturer as shown on drawings.

Item-2: Specification Section 23 00 00

Action: Delete 1.02 B.

PART 1GENERAL

- 1.01 Description
 - A. Provide material, labor and complete system described and shown.
 - B. Scope Of Work (SOW) Summary Narrative: Remove existing cooling tower and replace with new as shown on drawings and specified herein. Reuse existing support beams for the new cooling tower installation. Provide structural calculations conducted by Contractors professional structural engineer. Furnish and install new piping and piping supports as shown and specified. Provide the services of existing controls contractor, "Johnson Controls, Inc" to provide all control sequences of operation as specified. Provide services of "US Water Services" to provide condenser water treatment plans as specified. Install cooling tower fan VFD control panel furnished by the cooling tower manufacturer as shown on drawings.
- 1.02 Related Work Specified Elsewhere
 - A. Chases, framed openings, roof curbs, etc. Division 23 establish proper location, sizes for sleeves, inserts, etc.
 - B. Painting, Section 09900 and as follows.
- 1.03 Submittals
 - A. Shop Drawings and/or Equipment Brochures.
 - 1. Submit in accordance with Section 01304.
 - 2. Include pertinent dimensional and rating data relating to all mechanical equipment.
 - B. Maintenance Data & Operating Instructions: Prior to acceptance of installation, provide three (3) copies of manufacturer's literature for approval. Cover each item of equipment

and provide complete sets of manufacturer's instructions for operations and maintenance, including replacement parts lists, wiring diagrams, belt type and size if belt driven, type of bearing on unit and motor and control diagrams, bound in 3-ring notebooks. Include plumbing fixtures and trim showing catalog number, model, type, size, capacity and characteristics. With parts lists, include exploded or similar descriptive drawings with all parts labeled to correlate with parts lists. Instruct Owner's representative in operating and maintaining equipment. Operate system with Owner's representatives for a period of not less than 4 hours under actual operating conditions.

- C. Record Drawings: Record change in piping runs, equipment locations or other pertinent information on a set of drawings. Locate underground lines by dimensions from building lines. At close of job, turn drawings over to Owner. Record drawings shall be submitted in both paper and digital formats. Provide (3) copies of paper and (1) copy of digital AutoCAD and pdf of all the drawings.
- D. Certificate: Furnish signed certificates stating that:
 - 1. Systems have been thoroughly cleaned.
 - 2. Tests of piping have been made and satisfactorily concluded.

1.04 Coordination

A. Maintain qualified supervisory personnel on job to coordinate work and space utilization with other trades involved. Supervisor must be completely familiar with operation and requirements of equipment being installed and be responsible for job during entire construction period. Prior to request for final review, be certain that equipment and controls are functioning properly.

1.05 Quality Assurance

- A. Materials: Except as otherwise permitted by specification designation, provide new materials of standard make and current manufacture. Where applicable, conform to ASME, ASTM, NFPA or other requirements and have UL listing. Select Equipment to fit space provided.
- B. Maximum allowable variation from stated capacities, plus 10% to minus zero.
- C. Workmanship: Run piping parallel to building, keep as inconspicuous as possible, and grade evenly. Set equipment plumb and true with easy access for maintenance. Off-set piping as required to provide for proper and necessary clearances. Provide adequate clearances for repair and service of mechanical equipment.

PART 2 - PRODUCTS

2.01 Guarantees

- A. Submit a single guarantee stating that all portions of the work are in accordance with Contract requirements. Guarantee all work against faulty and improper material and workmanship for a period of one (1) year from date of substantial completion, except that where guarantees or warranties for longer terms are specified, such longer term to apply within 24 hours after notification, correct any deficiencies which occur during the guarantee period at no additional cost to the Owner, all to the satisfaction of the Owner and Engineer.
- B. Be responsible for all leaks in all pipes for a period of one (1) year from date of acceptance of work. Repair all such leaks, at no cost to Owner, within 24 hours of notice by the Owner. Repair leaks which occur prior to the completion of this Subcontract at once. Be responsible for any damage caused by such leaks and repair thereof and reimburse Owner for all expenses incurred.

2.02 Painting

- A. Check equipment furnished under this contract finished with factory applied finish. Clean dirty equipment and refinish mars or scratches to original surface and color.
- B. Paint one coat flat black on interior of ductwork which can be seen through screens, grilles or diffusers.
- C. Paint all miscellaneous structural supports, including stands, two coats of machinery enamel, color as selected.
- D. Other painting is specified in Section 09900.

Hodaie Engineering, Inc.

PART 3 - EXECUTION

3.01 Cutting and Patching

- A. Cut work as required for installation and patch to match original conditions as directed and approved by Architect. Do not cut structural portion without Architect's approval.
- B. When masonry construction must be penetrated, furnish and install a pipe sleeve in opening and grout in place in a neat manner. Leave grout surface to match existing finish. Size sleeve to accommodate pipe insulation. Penetrate concrete construction by core drilling, size to accommodate insulation. Pack annular space between pipe and sleeve or core-drilled hole per Sleeves above.
- C. Prior to cutting any existing work, locate all concealed utilities to eliminate any possible service interruption or damage. Contractor is responsible for repair or replacement of lines or equipment damaged in existing systems.
- D. Coordinate with General Contractor to repair ceilings, walls and floors.

3.02 Demolition and Salvage

- A. Relocate or reroute any existing Mechanical work, not otherwise noted, in the way of remodeling and new construction and leave in proper operating condition. In case of question consult Architect. Remove exposed, abandoned piping and cap or plug in concealed location.
- B. Equipment removed becomes property of Contractor, with exceptions noted. Allow proper credit in bid and remove from site.
- C. Haul debris and material other than equipment from site, unless otherwise arranged.
- D. Coordinate time of removal with General Contractor so that no mechanical equipment or material is damaged or destroyed in general demolition.
- E. If Contractor encounters asbestos, stop work in that area and notify Owner.

3.03 Start-Up & Completion

A. Provide start-up, test and adjustment of each item of mechanical equipment and of complete system by qualified field personnel. Coordinate controls furnished on equipment with system operating controls and calibrate together to operate as specified.

END OF SECTION

23 05 00 Common Work Results for HVAC

PART 1 - GENERAL

- 1.01 Description
 - A. Provide material, labor and complete system described and shown.
- 1.02 Quality Assurance
 - A. References:
 - 1. American Society for Testing Materials (ASTM) publications:
 - a. B32 Solder Metal
 - b. B88 Seamless Copper Water Tube
 - 2. National Electrical Manufacturers Association (NEMA)
 - 3. International Conference of Building Officials (ICBO)
 - 4. Underwriters' Laboratories, Incorporated (UL)
 - B. Materials:
 - Except as otherwise permitted by specification designation, provide new materials of standard make and current manufacture. Where applicable, conform to ASME, ASTM, NFPA or other requirements and have UL listing. Select Equipment to fit space provided.
 - C. Workmanship:
 - 1. Run piping parallel to building, keep as inconspicuous as possible, and grade evenly. Set equipment plumb and true with easy access for maintenance. Off-set piping as required to provide for proper and necessary clearances. Provide adequate clearances for repair and service of mechanical equipment.
 - D. Coordination:
 - 1. Maintain qualified supervisory personnel on job to coordinate work and space utilization with other trades involved. Supervisor must be completely familiar with operation and requirements of equipment being installed and be responsible for job during entire construction period. Prior to request for final review, be certain that equipment and controls are functioning properly.

PART 2 - PRODUCTS

- 2.01 Common Motor Requirements for HVAC Equipment
 - A. Division 26 specifies wiring, provides disconnect switches, mounts starters and makes line voltage connections to equipment furnished under Division 23, unless noted under specific item. Division 23 provides control wiring, except as indicated, to conform with Division 26 wiring methods.
 - B. Electrical Characteristics
 - 1. Conform with voltage, phase and current limitations shown on Division 26 drawings. Should equipment approved and furnished under these specifications require additional wiring or electrical service beyond that required by specified equipment, arrange with Division 26 to provide addition at Contractor expense.
- 2.02 General Duty Valves for HVAC Piping:
 - A. Minimum working pressure rating 150 psig W.O.G.
 - B. Manufacturer: Apollo, Hammond, Jenkins, Milwaukee, Nibco, or approved equal.
 - C. General Valve Requirements: Hammond valve numbers given to establish quality.
 - 1. Gate Valve:
 - a. Two inch (2") and Smaller: Bronze body, inside screw, rising stem, solid disk wedge, screwed bonnet, No. IB640.
 - b. Two and half inch (2½") and Larger: Iron body, bronze trim, rising stem, flanged, No. IR1140.
 - 2. Globe Valve:
 - a. Two inch (2") and Smaller: Teflon disc, bronze body, bronze trim, No. IB413.

- b. Two and a half (2½") and larger: Iron body, bronze trim, bronze disc hot water, Bun-N disc cold water, No. IR116.
- 3. Check Valve:
 - a. One inch (1") and Smaller: Bronze body, horizontal swing, screwed bonnet, renewable disc, No. IB904.
 - b. One and a quarter (11/4") and Larger: Iron body, horizontal swing, bolted bonnet, renewable seat and disc, flanged, No. IR1124.
 - c. Non-Slam: Wafer style, spring loaded, silent check valve. Hammond IR9253, or Jergens, Victaulic, Metraflex, Val-matic. Use on pump discharges.
- 4. Ball Valves: Bubble tight shutoff, seats glass filled teflon to minimize seat cold flow.
 - a. One inch (1") and smaller: Full port, 150 psig W.O.G., suitable for 220 F operation, two piece screwed type bronze body, No. 8901/8911.
 - b. One and a quarter (1¼") and larger: Full port, 200 psig W.O.G., suitable for 220 F operation, three piece bolted body allowing replacement of valve assembly without breaking piping, No. 8604/8614.
- 5. Butterfly Valves: Lug type (or grooved ends), ductile iron body, stainless steel disk for 150 psig shutoff, extended neck for insulated pipes.
 - a. Four inch (4") and Smaller: EPT O-ring and seat, valve rated for 220 degrees F on heating systems and 200 degrees F all others, locking lever handle, No. 6201-01/6211-01.
 - b. Six inch (6") and larger: EPT O-ring and seat, valve rated for 200 degrees F, manual gear operator with memory stop, No. 6201-01-03/6211-01-03.
- 6. Drain Valves: Hose end gate valve or gate valve with hose connection. Do not use sillcocks in lieu of drain valves.

2.03 Hangers and Supports for HVAC Piping and Equipment

- A. Piping: Provide galvanized hangers and shields for the pipe supported. Provide copper plated hangers and guides in contact with copper pipe. Increase pipe hanger size for insulation such that insulation is continuous thru hanger. Provide 16 gauge insulation shield for 4" and larger pipe and 20 gauge for 3" and smaller. Length of the shield 6 times nominal pipe diameter except minimum length 6 inches. Hanger types permitted are as follows:
 - 1. Clevis for all pipes Grinnell Fig. 260.
 - 2. "J" hanger for all pipes Superstrut C-711.
 - 3. Swivel Ring for non-insulated pipe Grinnell Fig. 70.
 - 4. Swivel Ring w/ Shield for insulated pipes 2" and smaller Michigan Hanger Co. No. 103.
 - 5. Riser Clamps for steel and iron pipe Grinnell Fig. 261, for copper pipe Grinnell Fig. 261c
 - 6. Pipe Rolls Grinnell Fig. 171, provide pipe covering protection saddles for 1-1/2 inch and larger insulated pipe at each roll Grinnell Fig. 160.
 - 7. Pipe Guide Grinnell Fig. 256.
 - 8. Pipe Anchors Flexonics AC Series or Fee & Mason Fig. 140 welded to pipe.
 - Beam clamps Grinnell Fig. 61.
- B. Trapeze support systems: Hot rolled steel channel with electrogalvanized finish, clips, fasteners, and clamps with matching finish by same manufacturer.
 - 1. For copper pipe provide neoprene strip between pipe and clamp Superstrut S-716, plastic tape alone is not acceptable.
 - 2. For insulated pipe provide strap and shield sized for O.D. of insulation Superstrut C-708 with C-790, universal clamps attached directly to pipe are not permitted.

PART 3 - EXECUTION

- 3.01 Installation
 - A. Install where indicated per manufacturer's recommendations.

3.02 Pipe Supports

- A. Locate hangers, supports, and accessories to support pipelines, valves, and additional concentrated loads.
- B. Single Pipes: Support horizontal runs of steel, copper pipe under 2" and cast-iron soil pipe on suitable hangers spaced at not more than 5 feet on centers. Support all steel and copper piping 2" and larger at not more than 10 feet on centers.
 - 1. Independently support piping at equipment, such as duct mounted coils, so that no weight is supported by equipment.
 - 2. Do not spring or bend pipe to fit conditions or to make up joints. Support piping in manner to prevent binding, undue swing, and transmission of vibration to structure. Provide sway bracing where hanger rods are longer than 12" and at maximum spacing of 40 feet.
 - 3. Install hangers for insulated piping outside insulation using high density section (6# per cubic foot) of insulation and sheet metal shield.
 - 4. Install minimum of one hanger or brace within two (2) feet from each change of direction in piping.
- C. Trapeze Hangers: Where pipes are clustered, parallel, and in same plane, support by trapeze hangers. Provide rods and channel sized to suit load imposed.

3.03 Typical Piping

- A. Close openings in pipes with appropriate caps, plugs, or covers during storage and progress of work to preclude introduction of contaminants.
- B. Slope pipelines and provide low point drains for piping and equipment.
- C. Ream ends of pipe to full diameter.
- D. Provide pipe anchors, swing joints, and expansion compensators as required to control expansion of pipelines.
- E. Reduce pipe sizes using reducing tees or reducing fittings. Bushings not permitted except on tanks and similar equipment.

F. Testing:

- 1. Test all piping to a pressure equal to 1.5 times the working pressure of the system. Hold test pressure for minimum of 4 hours without leakage. Arrange for the Owner's Representative to witness the tests. Provide written report.
- 2. Leave piping exposed (unconcealed) for observation during testing. Expose any work that was covered or concealed before testing for the duration of the testing period.
- 3. Repair leaks & defects discovered during testing with new material and re-test until satisfactory results are obtained.
- 4. Testing of portions of the entire system is permitted provided clear documentation is included with the test reports showing the extent of the piping under test.

3.04 Threaded Pipe

- A. Cut threads true and of depth of make up properly without leaks.
- B. Make connections to show at least two threads and not more than four threads when tight.
- C. Make up joints with Teflon tape only for domestic water and hydronic systems, as recommended by tape manufacturer, or as specified for individual piping systems.
- D. Use approved type pipe compound for gas and oil piping.

3.05 Cleaning

- A. Clean exposed, uninsulated piping to remove shipping labels, flux, solder drips, pipe dope, dirt, oil, loose scale or other contaminants.
- B. Thoroughly flush out and clean each piping system. Be aware of obstructions in piping, such as flow control valves, strainers, etc., during cleaning process. Make provisions to handle these items using bypasses, back-flushing, leaving equipment out and installing temporary connections until piping is clean or whatever is required to accomplish complete cleaning. Clean ductwork in this contract prior to installation of grilles.

- 3.06 Lubrication
 - A. Lubricate equipment properly per manufacturer's recommendations prior to operating and placing in service.

23 09 00 Instrumentation and Control for HVAC

PART 1 - GENERAL

1.01 Description

A. Provide the services of the existing controls contractor for the building, Johnson Controls, Inc., to make the following changes to the controls sequences and settings.

PART 2 - PRODUCTS

2.01 Control Products: New, of current manufacture, and with full warranty.

PART 3 - EXECUTION

3.01 Sequence of Operation

- A. Existing BMS shall control and sequence equipment operation including the new cooling tower. The BMS shall monitor the condenser water return and supply temperatures, cooling tower make-up water, pan heater and condenser water pumps. Upon cooling, initiated by the BMS, lead condenser pump shall be energized and operation shall be sequenced as following:
 - 1. If return water temperature is lower than 75F, cooling tower bypass valve shall modulate down to reduce tower water flow to maintain 75F return water temperature.
 - 2. If return water temperature is higher than the 75F, tower fans shall be energized at low speeds to maintain 75F return water temperature and slowly ramp up and down to maintain 75F.
 - 3. If cooling tower fan speed is increased to 70% of the maximum speed setting and the return water is higher than 75F, the second condenser pump shall be energized.
 - 4. If return water then drops to 73F or lower the tower fan speed shall modulate down to maintain the 75F return water condition.
 - 5. If return water temperature rises above the 75F, fan speed shall ramp up to 100% to maintain the 75degF return temperature.
 - 6. If supply water temperature is higher than 85F and the tower fan speed is not at 100%, tower fan speed shall ramp up slowly to maintain 85F supply water temperature setpoint and 70F return water temperature.
 - 7. The BMS shall alarm on the graphics screen if supply water temperature exceeds 95F or return water temperature is lower than 60F.
 - 8. All values in the above sequence shall be adjustable.
 - 9. Review existing and planned facility BAS system for seamless transition from existing system to the planned 2015 system. This sequence of operation shall be maintained by the existing and the planned BAS.
- B. Water Level Control
 - 1. Interface with tower ultrasonic level sensor to open/close make water valve and alarm low water condition.
 - Enable tower basin heater's local controls when water level is above local heater's sensor (prevent local heater operation when tower is drained for seasonal shutdown.)
- C. Pan Heater Control

Low water alarm shall trigger fill valve open and close to maintain pan water level. At low water alarm, pan heater shall be turned off.

23 20 00 HVAC Piping and Pumps

PART 1 - GENERAL

- 1.01 Description
 - A. Provide following material.
- 1.02 Submittals
 - A. Manufacturer's Literature:
 - 1. Catalog data and illustrations.
 - 2. Pump capacity curves of selected pumps with pump operating point marked on curve.
 - 3. Dimensions, materials, construction details.

PART 2 - PRODUCTS

2.01 Hydronic Piping

- A. Make-up Water:
 - 1. Pipe Type L hard drawn copper tubing above ground, ASTM B88.
 - 2. Fittings Standard wrought copper solder type for 150 psi service.
 - 3. Unions All brass.
 - 4. Solder Tin/Antimony, ASTM B32-95TA.
 - 5. Use clearflow dielectric waterway joints between copper and steel piping.
- B. Condenser water: 4 inch and larger
 - Steel Pipe Schedule 40 black steel meeting ASTM A53 or ASTM 120 specifications.
 Fittings 150 psi screwed malleable iron on 2 1/2 inches and below, schedule 40 welding fittings conforming to ASTM A234 for 3 inches and above. Unions Ground joint malleable iron.
 - 2. Grooved Steel Pipe Same as steel pipe with standard cut groove to coupling manufacturer's specifications. Couplings Standard weight with gasket selected by manufacturer for service intended.
- 2.02 HVAC Water Treatment
 - A. Provide services of "U.S. Water Services" to provide following:
 - B. General
 - 1. Provide automated feed and bleed system for the cooling towers. If sump waters do not blend, provide separate systems for each cooling tower as specified and recommended by the water treatment representative. System shall feed inhibitor based on impulse water meter installed on the makeup line to the cooling tower. Bleed shall be controlled by a conductivity sensor and controller. Biocide shall be automated and alternating. This is to be a completely automatic system. Installation of all water treatment equipment to be done by mechanical contractor. Mechanical to interface with electrical where necessary.
 - 2. The complete control equipment shall be operational prior to operating system. The chemical water treatment company will calibrate and insure proper function of all components prior to operation.
 - C. Feed and Bleed System
 - 1. The feed control system is to receive signals form a contact head water meter, installed on the makeup water line to the cooling tower. These signals are to initiate a feed pulse timer that is adjustable. The controller is to be microprocessor based with digital read out, enclosed in a weatherproof NEMA 12 enclosure. Model Number "DC 4500-111A2". The controller must have manual off/ on capability for each function. The controller will have a flow switch cut off to insure in a no flow situation, the feed cycle cannot take place. The controller is to be supplied by Mt. Hood Chemical. On owner's discretion, on line Web access to all features of control system to be available but not included in base bid. If makeup water contains a

- hardness value of over 50 ppm, pH control shall be included in the control system with pumps chemical and all necessary components.
- 2. The bleed is to be based on a conductivity sensor in line. The sensor is to send signals to the control unit. The controller is to have an adjustable set point for bleed. When this set point is reached, the control is to send a signal to a normally closed solenoid bleed valve to discharge system water to insure proper dissolved solids concentration. The controller programming shall be set by the water treatment representative. The controller shall have a low and high alarm.
- 3. The bleed valve is to Asco, normally closed, 115VAC, The systems bleed rate is to be calculated by the water treatment representative to insure no scaling. The bleed valve is to be sized accordingly The install of the bleed assembly is to be made from the pressure side of the Condenser piping to drain. The configuration will be Condenser pipe, ball valve, Y strainer, bleed solenoid to drain. The bleed line assembly will be tapped on the side or top of Condenser piping to insure no clogging. A totaling water meter sized to the solenoid is to be installed on bleed line.
- 4. The makeup impulse water meter is to be sized by the water treatment representative to serve 110% load demand on the system. The meter must be installed on a 3 valve by pass on the makeup line in a horizontal position. The meter is to Seaflow Model MR with electrical contact head. If the water meter is to be larger than 2", a turbine style, impulse water meter must be used. The turbine style meter must be equipped with stainless steel shaft and epoxy coated body.
- 5. Biocide feed timer circuit is to be a 14-day programmable feature. The controller is to have a pre bleed function and a bleed lock out feature connected to biocide feed. The biocide timer is to alternate between two biocides automatically.
- 6. Chemical feed pumps: Vendor to supply 3 LMI chemical feed pumps. 2 are to be used for alternating the biocide and one for the corrosion and scale inhibitor feed. Pumps are to have adjustable stroke and speed. Corrosion and Scale Inhibitor pump is to be capable of delivering minimum 7 GPD. Biocide pumps are to be capable of delivery of minimum 14 GPD. Pumps are to sized to a minimum of 25% above the highest pressure expected in the system. Pump mounting brackets to be supplied manufactured by pump manufacturer.
- 7. Chemical Injection assembly is to be supplied by the water treatment company. They are to have a check valve and be chemically resistant. The contractor is to install the injection points to insure chemicals will be injected to the main stream of flow. Chemicals are to not be injected in a "a flow situation". A ball valve shut off will be installed at the tap of the main Condenser piping for easy shut off. The tap will be made into the main Condenser piping on the side or top of the main Condenser pipe to insure no clogging.
- 8. Vendor is to supply an estimated one- year supply of inhibitors to prevent scale corrosion and bacteriological fouling.
 - a. The scale / corrosion inhibitor is to be an Organo Phosphonate / Molybdate based inhibitor containing dispersants. US Water Services CWT 6050.
 - b. Two biocides will be alternated on a bi weekly basis. US Water Biotrol 515 and Stabrom 909. The Stabrom will be fitted with a peristaltic pump.
- 9. Testing kits and apparatus will be supplied on start up.
- 10. The water treatment representative will provide training in testing, logging, and troubleshooting procedures to the owners representatives will provide Appropriate training. This will be completed in no more than 4 weeks after start up.
- 11. The chemical representative on site is to have no less than five years' experience. The vendor must have representation within a 200 mile radius of the site. Vendor must have local research and development facility and local in-house manufacturing.
- 12. A certificate of cleaning and treatment is to be issued at the end of each loop completion of chemical balance with final documents..
- 13. Discharge water meter to be supplied reading in cubic ft to calculate evaporation.
- 14. The cooling tower if new and has wet galvanized surfaces will be run at low cycles for the first three months in a pH range of 7-8 for self-passivation.

- D. Approved Vendors: US Water Services 503 810 2527.
- E. Corrosion Coupon Racks: A corrosion coupon rack is to be supplied for each Hydronic system. The coupon rack will be sized for pressure of the system to be supplied for. The coupon rack is to be pre fabricated, made of PVC, Black iron or appropriate material for the loop to be monitored. The coupon rack is to have two ports and flow gauge.
- F. Certificate: Certificate of cleaning and passivation is to be supplied by water treatment company.

PART 3 - EXECUTION

3.01 General

A. Install in piping where shown on plans. See details for specifics. Verify that system flow direction and pump flow direction are compatible.

3.02 Installation

A. Install where indicated per manufacturer's installation instructions and recommendations.

23 60 00 Central Cooling Equipment

Date: September 11, 2014

Subject: Addendum-1

Item-1: Specification Section 23 60 00 Action: Replace 2.01 A1 with following:

1. The basis of design unit shall be a factory assembled, forced draft, counter-flow, modular cooling tower. The basis of design unit shall be a Tower Tech Inc. Model TTXL-041975. Tower shall be have a minimum of two mechanical drive systems and shall have overall dimensions not exceeding 16'-5" long (including sump) by 12' wide by 15'-1/4" overall. The tower's principal construction shall be

Item-2: Specification Section 23 60 00

Action: Replace 2.01 B1 with following:

1. The tower shall be capable of cooling, at peak load conditions, <u>790 GPM of circulating water from 85°F HWT, to 75°F CWT, at 69°F</u> air entering wet bulb temperature, operating with a total fan horsepower of 30 BHP maximum. The manufacturer shall guarantee the tower ...

Item-3: Specification Section 23 60 00

Action: Replace 2.01 D3 b with following:

b. Standard equipment shall include a flanged overflow/equalization connection, and a corrosion-free, easily removable debris screen. Sump shall be covered by a five (5) year warranty. Sump fill/makeup and alarms shall be controlled and sequenced via solenoid valve by Temperature Controls Contractor using tower manufactured supplied ultrasonic sump level transmitter analog output. Transmitter shall be equal to Echopod Model DL10 and be supplied with stilling well tube kit for ease of field installation by installing contractor.

Item-4: Specification Section 23 60 00

Action: Replace 2.01 E with following:

E. Motor Protection Panel

1. Motor Protection Panel (MPP) shall be a UL-Rated NEMA 4X (FRP) and designed for single point connection. The NEMA 4X panel shall have individual manual motor protectors to protect each motor against short circuit or thermal overload. The manual motor protectors shall have built-in adjustable motor overload for setting to motor Service Factor Amps (SFA). Each device shall have an On/Off rotary handle

with lock out/tag out capability and visible trip indication for each individual motor. Each manual motor protector shall have an auxiliary contact to provide a dry contact status of the motor back to the Building Management System (BMS). The NEMA 4X panel also provides a main non-fused disconnect with through the door operator handle. The MPP is pre-wired to the motors and pre-mounted on the cooling tower. The MPP shall be configured to allow for bottom entry of cables.

- 2. VFD shall be equipped with a (4-20ma scale, 30°F-200°F) cold-water temperature "Remote Set Point" input. This feature allows the cold water temperature set point to be modified via the BMS.
- 3. The MPP shall be equipped for interconnection with the Variable Frequency Drives (VFD) supplied. When the VFD Bypass is engaged, or drive failure occurs, the MPP shall energize all fan motor starters with fan motors operating at full speed.
- 4. Internal MPP wiring shall be fine stranded, tinned copper switchboard wire with 600V flame- retardant insulation Type SIS meeting UL 44 and shall pass UL VW-1 flame test. Minimum size shall be #14AWG. Provide type written, sleeve type conductor labels on all internal cabinet wiring. Sleeves shall be PVC, type written, shrinkable type that shall correspond to the cabinet wiring diagrams and schematics. Text shall not be less than ½" in height.
- 5. All Variable Frequency Drives (VFD's) shall be sized according to Total Connected Amps (including all applicable service factors required by governing Electrical Codes), not total connected horsepower. VFDs shall be mounted outdoors and shall be NEMA3R rated with auto bypass. Installing contractor shall be responsible for mounting stand/bracing for VFD support structure.
- 6. For Towers that are designed with one motor per cell, a NEMA 4 starter/control panel and NEMA 3R VFD with auto bypass shall be provided for each motor.

PART 1GENERAL

- 1.01 Description
 - A. Provide labor, materials, equipment, and services to perform operations required for the complete installation and related Work as required in Contract Documents.
- 1.02 Submittals
 - A. Submittals shall be job specific and include the following:
 - 1. Tower Performance Analysis showing Flow (GPM), Tower Inlet/Outlet Temperatures (°F), Wet Bulb Temperature (°F), required Motor Horsepower, and kW/Ton at design conditions and part load conditions as specified by engineer.
 - 2. Drawings showing plan and elevation views with all critical dimensions, tower weight (dry & operating), design operating conditions, and motor data.
 - 3. Dimensioned fabrication drawings of tower support structure accompanied by all manufacturers engineering load calculations confirming design.
 - 4. All necessary wiring diagrams showing internal tower wiring and all required field connections by others.

- 5. Drawing of tower "Lift Rigging" recommendations showing proper sizing of spreader bar, locations of pre-installed lifting brackets, and final leveling instructions.
- 6. Wiring diagrams and Installation drawings shall also be provided for all optional equipment (Tower Control Panel, VFD) when applicable.
- 7. Copy of manufacturers' written warranty regarding materials and labor, along with the conditions under which warranty is subject.
- B. Delivery, Storage, and Handling.
 - 1. Cooling Tower module "where possible" shall arrive as single, fully assembled and wired component, on a flatbed trailer.
 - 2. Upon arrival of tower module(s) (prior to any lifting operation), the tower shall be inspected on the truck by the owner's representative for general acceptance. Any items of concern related to damage or lifting operations shall be documented and reported (in writing) to the manufacturer's representative. The owner's representative or his crane operator shall inspect all corner lifting brackets and their bolting to the tower.
 - 3. Prior to lifting tower, all excess water should be removed from basin.
 - 4. Should tower need to be temporarily placed on the ground prior to its final positioning, the tower shall be stored on sound and level surface in accordance with manufacturer's recommendations.

C. Warranty.

- 1. Cooling Tower manufacturer shall provide material and labor warranty, in accordance with conditions specified within written warranty, as follows:
 - a. External Shell Fifteen (15) years from date of shipment from factory. Excludes cosmetic or superficial damage/wear.
 - b. Internal Components Five (5) years from date of shipment from factory.
 - c. Mechanical Components Five (5) years from date of shipment from factory.
 - d. Labor One (1) year from date of shipment from factory.

D. Acceptable Manufacturers.

- 1. The following manufacturers, in compliance with specifications and thermal performance contained herein, are considered acceptable:
 - a. Tower Tech Inc. (Basis of Design)
 - b. Marley
 - c. Baltimore Air Coil.

PART 2 - PRODUCTS

2.01 Cooling Towers

A. General Requirements

1. The basis of design unit shall be a factory assembled, forced draft, counter-flow, modular cooling tower. The basis of design unit shall be a Tower Tech Inc. Model TTXL-041975. Tower shall be have a minimum of two mechanical drive systems and shall have overall dimensions not exceeding 12' feet long by 13' 6"feet wide by 11 feet overall height. The tower's principal construction shall be of pultruded Fiberglass Reinforced Polyester (FRP) and must have a flame spread rating less than 25 or a flammability coefficient of 94-V0. Towers constructed of metal shall have all steel panels and structural members, including structural frame, hot and cold water basins, distribution covers, fan deck, and fan cylinder manufactured from 316 or 304 Stainless Steel and assembled with type 304 stainless steel nut and bolt fasteners as further specified in this specification. The modules must be capable of operating independently or in combination with future modules.

B. Thermal Performance

1. The tower shall be capable of cooling, at peak load conditions, 1140 GPM of circulating water from 95°F HWT, to 85°F CWT, at 78°F air entering wet bulb temperature, operating with a total fan horsepower of 30 BHP maximum. Additionally, tower shall be capable of cooling 600 GPM of circulating water from 95°F HWT, to 85°F CWT, at 78°F air entering wet bulb temperature, operating with a total fan horsepower of 2.5 BHP maximum. The manufacturer shall guarantee the

- tower(s) supplied will meet the specified performance conditions when the tower(s) is (are) installed according to plan and per the guidelines established in the tower manufacturers current Installation, Operation and Maintenance Manual.
- Cooling tower must be Cooling Technology Institute (CTI) Certified as set forth in the CTI Certification Standard STD-201(04). Towers claiming to be CTI "listed" or "designed" to CTI specifications shall not be acceptable.

C. Design Loading

 Tower shell and substructure (support legs) shall be designed to withstand a sustained wind load of 150 MPH and seismic force factor of Cs = 0.4 x weight, category D (Ss = 200, S1 = 150, soil class E) as referenced in the International Building Code.

D. Construction

- 1. The cold water basin and the tower casing for the basis of design unit shall be constructed of pultruded Fiberglass Reinforced Polyester (FRP) with UV inhibitors. FRP shall have a minimum thickness of ¼" and a minimum density of 0.7 oz./cu.in. Specially placed reinforcement and a UV veil layer will ensure the structural strength and longevity. If a metal tower is provided, the cold-water basin, hot water basin and casing shall be constructed of 316 Stainless Steel. The structural members shall be constructed of minimum 304 Stainless Steel.
- PERIMETER BASIN (External Shell).
 - a. The basis of design unit shell or casing shall have an integral perimeter basin. Its elevated basin shall reduce operational pump head requirements. Its high velocity water flow (5 to 7 fps) during operation shall minimize accumulation of sediment. Perimeter basin shall be equipped with one inspection port, at each corner support member, on the front and rear surfaces.
 - b. Basin shall be equipped with one (1) 6 Kw stainless steel basin heater elements. Heater shall have corrosion and liquid proof enclosure. The basin heater package shall include a combination controller and probe (temperature and level sensor) preset at 45°F. This sensor probe is stainless steel with a ½"NPT mounting fitting. The control panel contains the electronic temperature/flow liquid level control, control voltage transformer, and the magnetic contactor used to energize and de-energize the heaters. Heaters must be interlocked with pump control to deactivate heaters when cooling tower pumps are operating. Control panel is NEMA 4X, UL rated. Control panel door includes standard lockout disconnect. Panel and probes shipped loose for field install. A separate 3-Phase power source must be supplied to the control unit. Interlock with pump control completed in the field by others (Temperature Controls Contractor or Electrician).

3. SUMP (Mechanical Component)

- a. Tower shall be equipped with an end wall mounted sump with a bottom outlet providing a flanged (150 lbs bolt pattern) discharge connection for simplified piping. As an alternate a depressed 304 SS center section design with drain and clean out connection can be provided.
- b. Standard equipment shall include a manufacturer supplied and mounted brass float valve with brass or stainless steel components. Connection size shall be 2" NPT. Also included are a flanged overflow/equalization connection, and a corrosion-free, easily removable debris screen. Sump shall be covered by a five (5) year warranty. Note: Maximum rated operating pressure for float valve is 25 PSI. Install PRV if site water pressure is above 25 PSI.
- c. Towers with basins that do not provide a min 5-7fps of basin velocity shall include a "Sweeper" piping system to prevent sediment buildup and/or stagnant water areas that permit algae and other biological growth. Sweeper piping system shall include all necessary "Eductor" nozzles, piping, pump, sediment separator, and electronic controllers for a completely automatic system.
- 4. FILL AND DRIFT ELIMINATORS (Internal Component)
 - a. Fill shall be Polyvinyl Chloride (PVC) of cross-fluted design, minimum 10 mil (after forming), impervious to decay, fungus and biological attack. Fill sheets

- shall be self-spacing, supported on maximum spans of 12". Each fill sheet shall have a microstructure to improve heat transfer. The flute opening of the fill pack shall not be less than 1900mm (3/4"). Fill packs or blocks shall be placed in the tower so as to provide the tightest fit possible without damage to the fill.
- b. Drift eliminators shall be minimum three-pass Polyvinyl Chloride (PVC) material of cellular design impervious to decay, fungus and biological attack. Drift losses shall not exceed 0.0004% of the design circulating flow rate at full fan speed. Fill and drift eliminators shall be covered by a five (5) year warranty.
- 5. WATER DISTRIBUTION SYSTEM (Internal Component)
 - a. The basis of design unit distribution system shall be comprised of a single inlet, enclosed, low pressure, non-corrosive Polyvinyl Chloride (PVC) Schedule 40 piping system. Water will be distributed further using 4" Schedule 40 PVC lateral(s). Water shall be evenly sprayed over the fill media by evenly spaced and sized High Density Polyethylene (HDPE) rotary spray nozzles. The nozzles shall have a four (4) inch NPT connection and rotating disk for clog free operation, produce a square pattern, and shall be located no more than three inches above the fill media. The nozzles must operate between a minimum of ½ PSI and a maximum of 1½ PSI pressure drop. Nozzles shall be capable of a variable flow of 100 GPM to 300 GPM while maintaining full fill media coverage.
 - b. Alternative distribution system shall include minimum 316 stainless steel hot water basins, which shall receive hot water piped to each cell of the tower. Distribution system shall be designed so that a single hot water inlet connection is provided. Basins shall be sealed at the factory and shall be equipped with removable, stainless steel covers capable of withstanding a minimum of 60 psf live load or a 200 lb concentrated load. All components of the hot water basin shall be 316 stainless steel with the exception of the nozzles and hardware. Each basin shall include an inlet hole and bolt circle to accept a 125# flange. Removable polypropylene nozzles shall provide coverage of the fill by gravity flow. The water distribution system shall be covered by a five (5) year warranty.
- 6. WATER COLLECTION SYSTEM (Internal Component)
 - a. The basis of design tower shall utilize a water collection system positioned beneath the fill media and above the air inlet. The water collection system shall collect cold water as it falls from the fill media and channel the water into the tower's elevated perimeter basin permitting the mechanical equipment to be mounted in the dry entering air stream beneath the tower. The water collectors shall be made of extruded flame retardant Acrylonitrile Butadiene Styrene copolymer (ABS) material and shall contain an integral damper system that opens mechanically with airflow. The damper system will prevent entry of airborne debris when the fan below it is off. The water collection system shall be covered by a five (5) year warranty.
- 7. MOTORS (Mechanical Component)
 - a. The basis of design tower shall contain 4 motors/module at 7.5 horsepower per motor for a total maximum installed horsepower/module of 30. The motors shall be Totally Enclosed Air Over (TEAO) with a service factor of 1.15 and must be suitable for 460-Volt, 3-phase, 60-Hz service. Motors shall be nominal 860 RPM and be rated for inverter duty. All motors shall be factory pre-wired using oil resistant, VFD compatible, Double Shielded Cable to J box. Motors shall be covered by a five (5) year warranty.
 - b. For towers that utilize one motor per cell or tower module, the motor shall be inverter duty, Totally Enclosed with service factor of 1.15 and must be suitable for 460-Volt, 3-phase, 60-Hz service. Each motor shall be single-speed, single winding, and be equipped with a Variable Frequency Drive with three contactor automatic bypass. Motors shall be covered by a five (5) year warranty.
 - c. A minimum of two equally sized motors shall be provided. Towers offering a single motor for the design conditions will NOT be accepted. For towers with motors installed in the hot moist exiting air stream, the motors shall be

- furnished with special moisture protection on windings, shafts and bearings or, alternatively, the motors must be mounted outside of the moisture laden air stream. Towers with gear reducers shall include bearing lube lines that extend to the exterior of the tower shell and corrosion-proof drive shaft.
- d. Towers operating with top mounted motors shall include a ladder equipped with safety cage, a fan deck handrail system to provide access to the mechanical system for routine inspection and maintenance, and a hoist or small crane (Davit) (Shipped loose for field installation) for motor or gear reducer removal. Maximum brake horsepower shall not exceed the nameplate horsepower at design conditions of operation. The motors, fans, and drive trains shall be mounted to a 304 stainless steel sub-structure using 304 stainless steel bolts.
- 8. FANS (Mechanical Component).
 - a. Fans shall be of an axial, airfoil design positioned within an aerodynamically streamlined fiberglass or 316 stainless steel shrouds and installed with a minimum tip clearance for maximum efficiency. Fan blades shall be manufactured of Fiberglass-Reinforced Polypropylene or aluminum alloy and be pitch-adjustable. Fan hubs shall be manufactured of high strength, low weight aluminum alloy to minimize stress and wear on motor bearings. The tower shall have a minimum of 2 fans to handle the design conditions. The basis of design tower shall have 4 direct drive fans per module. The basis of design tower shall have the fan assembly and motor located outside the hot moist exiting air stream.
 - b. Towers utilizing gear reducers or belt drive units positioned in the moist exiting air stream must provide one replacement spare of each mechanical component.
 - c. Tower utilizing gearboxes or belt drive units shall provide a single pole, doublethrow vibration limit switch in a Nema 4 housing. Unit shall be installed on the mechanical equipment support for wiring into the fan motor shutdown circuit
 - d. All major mechanical components, including fans, drive trains, fan motors, and fan motor/drive train supports are covered by a five (5) year mechanical warranty. Towers not covered by a warranty of this scope will not be accepted.
- 9. Access, Handrails, and Ladders
 - a. Cooling towers that have mechanical equipment located on the top of the unit shall provide corrosion resistant handrails and ladders with safety cage for safe access to the mechanical equipment. Towers having a basin sweeping system shall also provide a factory-installed series 300 stainless steel walkway extending from one end wall access door to the other end wall. The walkway shall be supported by a series 300 stainless steel framework and the top of the walkway shall be at or above the cold-water basin overflow level. Towers with mechanical equipment (fan, motor, gearbox, or belts located in the exiting air stream shall provide a factory installed interior series 300 stainless steel mechanical equipment access platform for the care and maintenance of the towers mechanical equipment.

E. Motor Control Panel

- 1. Furnish a NEMA 4 rated motor control panel completely wired with door mounted individual HAND-OFF-AUTO switches, individual green fan "On" and red fan motor "Trip" indicating lights for each fan, and cover mounted lockable main disconnect. Panel furnished with fused control power transformer or Panel must be provided with external 120-volt control power source by others. Panel will be shipped loose, for field installation by others.
- Each internally mounted combination motor starter/adjustable overload protector shall have an integral lockable disconnect to enable individual motor isolation for maintenance.
- 3. Terminal blocks shall be provided for main power feed, individual fan motor connections, and any externally mounted control input and outputs. All final wiring from Tower mounted disconnects or junction box to terminal strips located in motor control panel, the main power feed to motor control panel, the temperature control

- probe, and any controls external to the panel shall be completed in the field by others.
- 4. Panel shall include a pre-programmed PLC (Programmable Logic Controller) capable of cold-water temperature monitoring, and cooling tower fan motor control. The PLC shall have a door mounted operator interface panel. Fan motor control consists of staging (energizing) fan motors (at full speed), beginning from the sump end of the tower, until the correct numbers of fans are operational to maintain the desired cold water setpoint temperature.
- 5. A separate (4-20ma, scale 30°F-200°F) temperature RTD probe, with ½" NPT male connection and ¾" NPT male stainless steel thermal well, shall be supplied loose for field installation in the cooling tower cold water piping. The probe shall be wired back to the control panel, using 3-wire shielded cable, to provide a cold-water temperature signal for proper fan staging control.
- 6. Control Panel shall be equipped with a (4-20ma scale, 30°F-200°F) cold-water temperature "Remote Set Point" input. This feature allows the cold water temperature set point to be modified via the owner designated Building Management System (BMS). This overrides cold-water set point manually input (default) via the operator interface panel at the Control Panel. In the event the BMS signal is lost, the PLC control reverts back to default set point.
- 7. The control panel shall be equipped for operating with a Variable Frequency Drive (VFD.) The PLC shall be equipped with a (0-10 VDC or 4-20ma, scale 0-100% Range) fan motor "Speed" output. This feature shall modify fan motor speeds to maintain desired cold-water temperature and maximize energy savings. All four (4) fan motors shall be operated by a single VFD wired to the control panel input power disconnect, operating all fans in unison, providing airflow across entire tower fill media. When the VFD Bypass is engaged, or drive failure occurs, the PLC shall de-energize all fan motor starters, and begin a "Fan Staging" sequence of operation with fan motors operating at full speed. Note: When VFD input to panel is used, a separate 120V circuit must be provided for control power to the Control Panel.
- 8. All Variable Frequency Drives (VFD's) shall be sized according to Total Connected Amps (including all applicable service factors required by governing Electrical Codes), not total connected horsepower. Please refer to table below for recommended VFD amperage sizing based on tower configuration.
- 9. Variable Frequency Drive(s) (VFDs) shall be mounted indoors and shall be NEMA 1 rated with auto bypass.
- 10. For Towers that are designed with one motor per cell, A NEMA 4 starter/control panel and Nema 1 VFD with auto bypass shall be provided for each motor.
- F. Make-up Water Control:
 - Provide ultrasonic level transmitter for BMS system use to manage electric make-up water valve.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install in accordance with project engineering drawings and manufacturer's installation, operation, and maintenance manuals.
- B. Provide all required supports, attachments devices, and accessories needed to insure quiet operation.
- C. Contractor shall be responsible for all design, engineering, and installation involving changes or adjustments to the specified cooling tower to the satisfaction of the engineer at no cost to the owner.
- D. Provide representative of manufacturer for installation supervision and start up.

3.02 DEMONSTRATION

- A. Train Owner's maintenance personnel to operate and maintain cooling tower(s) and controls including:
 - 1. Starting and Stopping of Fan Motors
 - 2. Sequence of Operation

- 3. Troubleshooting & Servicing
- 4. Routine Maintenance
- 5. Schedule training with owner, through Engineer or Construction Manager

26 05 01 Common Electrical Requirements

PART 1 - GENERAL

1.01 Contract Conditions

- A. Requirements of Division 01 GENERAL REQUIREMENTS and of Division 00 Procurement and Contracting Requirements apply to Work under Division 26.
- B. Advise subcontractors, suppliers, and vendors involved in the work specified in this section of the applicable requirements.
- C. Definitions of terms used in these specifications:
 - 1. Owner = _____
 - 2. Representative = duly appointed Owner Representative
 - 3. Contractor = To be Determined
 - 4. Energy Consultant = Hodaie Engineering.
 - 5. Engineer / Electrical Engineer = Hood-McNees Inc

1.02 Drawings and Specifications

- A. COMPLETE SYSTEMS: Drawings are diagrammatic and the drawings and specifications may not call out all components required for a complete and functioning system. The subcontractors and contractor are responsible for providing all materials, equipment, tools and labor necessary for construction of complete, functioning systems, fully operational and in code compliance, whether or not all materials and accessory items are identified in the drawings or specification.
- B. Electrical Drawings are diagrammatic indicating approximate location of outlets, lighting fixtures, electrical equipment, etc. Consult the Mechanical and Tower Vendor Drawings to avoid conflicts with equipment, structural members, etc. Any discrepancies in the plans and specifications shall be brought to the attention of the Engineer.
- C. Notify Engineer of deviations from Drawings needed to make electrical work conform to the building as constructed, and to related work of other Divisions. Minor relocations (within 10 ft radius of position shown on drawings) ordered prior to installation shall be made without added cost to the Owner.

1.03 Work Included

- A. Provide materials, equipment and methods indicated in the Contract Documents including labor required to complete the electrical work described.
- B. When a Section indicates "Related Work Under Other Sections", the list is intended to call out closely related work that may impact work under this particular Section. The list is not intended to be all-inclusive. Contractor should carefully examine drawings, specification, and job conditions to verify extent of work and required coordination with other work.

1.04 Work of Other Divisions

- A. The following items will be furnished and installed under another division of the work. Work under this Division shall be conducted in a manner to cooperate with the installation of such equipment or items.
 - 1. Mechanical equipment to be furnished and mounted under another division but electrically connected under this Division.
 - 2. Low voltage (under 120 volts) control wiring for mechanical equipment beyond provisions shown on the Electrical Drawings.

1.05 Work of Other Contracts

- A. The following items will be furnished and installed under another contract. Work under this contract shall be conducted in a manner to allow for the installation of such equipment or items.
 - 1. None at this time.

1.06 Alternates

- A. Refer to SECTION 012300 ALTERNATES for information on procedure & bidding and a schedule of Alternates.
- 1.07 Submittals of Shop Drawings, Product Data and Samples
 - A. Submittal form to identify Project, Contractor, and pertinent Contract Document references.
 - B. Apply Contractor's stamp, signed or initialed, certifying that review, verification of Products required, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
 - C. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
 - D. Revise and resubmit submittals as required; identify all changes made since previous submittal.
 - E. Within 20 days after date of Notice to Proceed, submit to Electrical Engineer complete Shop Drawings and Material Data Sheets (hard copy bound in labeled and indexed d-ring binders consult Engineer for approved alternate submission methods) for:

26 05 05: Disconnects & Fuses

26 05 19: Conductors and Connectors

26 05 33: Raceways and Cables

- F. Submit complete electronic copies (PDF) complete with Cover Letter and Transmittal and Index.
- G. Mark each page to identify applicable products, models, options, and other data. Supplement manufacturer's standard data to provide information unique to this project.

1.08 Product Substitutions

A. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.

- B. Submit to Electrical Engineer four hard copies of requests for Substitution for consideration.
- C. Utilize AIA or CSI Request for Substitution forms.
- D. Post-bid substitutions will only be considered when a Product becomes unavailable through no fault of the Contractor

1.09 Project Record Documents

- A. Maintain on site, two sets of Contract Documents to be utilized for record documents.
- B. Record actual revisions to the Work. Record information concurrent with construction progress.
- C. Deliver two copies of record documents to Owner with final Application for Payment.

1.10 OPERATING AND MAINTENANCE DATA

- A. Prior to final inspection, submit PDF electronic copies of electrical operating and maintenance data to Engineer.
- B. Instruct and Train Owner's Personnel in the proper use of the electrical systems installed under this Contract.

1.11 Codes, Regulations and Permits

- A. Do all work in accordance with requirements of current local building codes, National Electrical Code, National Fire Codes, and other applicable codes.
- B. All materials and equipment shall be approved by Underwriters' Laboratories, Inc. (UL) or Electrical Testing Laboratories (ETL).
- C. Contractor shall procure and pay for all permits required for electrical work.

1.12 Warranties

A. Standard 1 year parts and labor unless components furnished have a longer warranty.

PART 2 - PRODUCTS (THIS SECTION NOT USED)

PART 3 - EXECUTION

3.01 Testing and Commissioning

- A. Complete each electrical system and place in operation.
- B. Each system shall be tested and left in proper operating condition free of faults, shorts, or unintentional grounds.
- C. Upon request, demonstrate each system in the presence of the Energy Consultant, Electrical Engineer or Owner's Representative.

3.02 Equipment Connections

A. Work Included: labor and material required for the external electrical wiring and 120 volt control wiring for mechanical equipment.

- B. Work Included: mechanical control wiring rated less than 120 volts such as to low voltage control components as specified on Electrical Drawings.
- 3.03 Owner Furnished / Contractor Installed Equipment
 - A. Install and connect the following Owner furnished electrical equipment:
 - 1. none at this time
 - B. Make electrical connections to following Owner furnished, other divisions installed equipment:
 - 1. none at this time

3.04 Cleaning, Painting and Finishes

- A. Provide protective finishes on all materials and equipment. Use coated or corrosion-resistant materials, hardware, and fittings throughout the work. Prior to installation, paint all bare untreated ferrous surfaces with rust-inhibiting paint.
- B. Clean all surfaces prior to application of adhesives, coatings, paint, or other finishes.
- C. Provide factory-applied finishes on equipment wherever possible.
- D. Protect all finishes and restore any damaged finishes to their original condition.
- E. Reference SECTION 099000 PAINTING & FINISHING for paint specs.

3.05 Protection of Work

- A. Electrical work and equipment shall be protected against damage. Equipment found damaged or in other than new condition will be rejected as defective.
- B. Electrical equipment shall be kept covered or closed to exclude dust, dirt, and splashes of plaster, cement or paint and shall be free of all such contamination before final inspection. Enclosures and trims shall be in new condition, free of rust, scratches, or finish defects, and if damaged, shall be properly refinished in a manner acceptable to the Engineer.

3.06 Cutting, Drilling and Patching

- A. Coordinate with General Contractor access openings required for electrical equipment/raceways. Confirm acceptable locations with Structural Engineer.
- B. DO NOT cut, drill or weld to metal building components without express written direction from Structural Engineer.
- C. Access openings required after pouring of concrete shall be made at Contractor's own expense.
- D. After using access openings, restore surfaces to original integrity to the satisfaction of the Engineer.

3.07 Fire Rated Construction

- A. Comply with applicable building code requirements related to separations between adjacent occupancies.
- B. Utilize materials that are code-approved.

C. Minimize penetrations, limit size of openings, and/or provide fire-caulking to seal penetrations to maintain integrity of fire-rated separations.

3.08 Electrical Demolition

- A. Coordinate with General Contractor. Identify existing electrical items in areas to be demolished and provide a plan and schedule for removal, relocation and/or replacement of these items.
- B. Maintain existing services (branch power, communications, etc) to all areas of the facility at all times. Schedule necessary branch power/communications disruptions with facility personnel a minimum of 48 hours in advance of need. Provide 24/7 emergency response to address life-safety concerns of Owner.
- C. Notify General Contractor if suspected hazardous materials are encountered.

26 05 05 Common Electrical Materials and Methods

PART 1 - GENERAL

1.01 Labeling

- A. Clearly and properly label the complete electrical system to indicate the loads served or the function of each item of equipment provided under this work.
- B. Nameplates shall be 1/16-inch thick, laminated three-ply plastic, center-ply black, outer-ply white. Letters shall be formed by engraving outer white ply, exposing black center-ply. Nameplates shall be secured with permanent adhesive and screws or pop rivets. Submit two samples for Engineer's review and approval.
- C. Label each of the following equipment items (both new and existing) with an engraved nameplate: main service disconnects, distribution breakers/switches, branch panelboards, equipment safety disconnects, electrical contactors, control devices, transformers.
- D. Provide labels on face of each switch and receptacle device coverplate to identify panel and circuit number(s) serving the device. Labels shall be laminated clear adhesive-backed 1/2" tape with black (1/4") size letters. Product shall be that produced using a BROTHER "P-Touch" electronic labeling system or Engineer approved alternate. Submit four samples for Engineer's review and approval.
- E. With indelible ink, mark covers of junction boxes to indicate panel and circuit number(s) of wires contained therein (line voltage circuits). Provide similar marks for low voltage and signal circuit raceways.

1.02 Grounding

- A. Ground all electric equipment, raceways, and enclosures in accordance with code rules and established safety practices. All line voltage raceways shall contain an equipment ground conductor.
- B. Grounding shall be made to building steel (if applicable) and building service ground conductor system. Grounds shall be installed where accessible for future inspection and servicing. Ground conduits and cabinets for signal, telephone, etc., by bonding or conduit interconnection with the electrical system or as otherwise specifically indicated on the Drawings.
- C. Refer to Section 26 05 19 for grounding conductor color code.

1.03 Equipment Connections

- A. The location and method for connecting to each item of equipment shall be verified prior to roughing-in. The voltage and phase of each item of equipment shall be checked before connecting. Motor rotations shall be made in the proper direction.
- B. Conduit, wire, and circuit breaker sizes for equipment are based on the equipment ratings of specified manufacturer. The equipment actually furnished may have different electrical characteristics. Conduit, wire, and circuit breakers shall not be ordered or installed until exact electrical requirements are obtained. Responsibility for this coordination rests with this Contractor.

PART 2 - PRODUCTS

2.01 Materials

- A. All materials shall be new and bear manufacturer's name, model number, electrical characteristics, and other identification. All equipment shall be approved by a nationally recognized testing laboratory (NRTL) such as UL, ETL.
- B. Material and equipment shall be standard product of manufacturer regularly engaged in production of similar material for at least five years (unless specifically exempted) and shall be manufacturer's latest design.

2.02 Disconnects

- A. Safety and disconnect switches shall be heavy-duty quick-make, quick-break, dual rated, and of such electrical characteristics as required for the load served. Switches shall have defeatable cover interlock.
- B. Fuse clips shall accept UL Class R current limiting fuses and reject non-current limiting fuses.
- C. Acceptable manufacturers: SCHNEIDER ELECTRIC (SQUARE D), CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS or Engineer Approved Alternate.

2.03 Fuses

- A. Fused power circuits shall be protected by UL Class RK1 or Class L current limiting fuses. Fuses for motor loads shall be UL Class RK5 dual element current limiting type.
- B. Acceptable fuse manufacturers: BUSSMANN, LITTELFUSE or Engineer Approved Alternate.

2.04 Boxes

- A. Outlet and junction boxes shall be sized in accordance with code requirements or as noted on the Drawings.
- B. Boxes for exterior work shall be NEMA 3R or NEMA 4X as noted on plans.

2.05 Supports

- A. Provide adequate supports for all conduit, outlets, and equipment. The required support strength of brackets, rods, and anchors shall be designed for a minimum of four times the total weight of the supported item. All feeder conduits and other large conduits above the suspended ceiling shall be hung independently of the ceilings.
- B. Provide seismic sway bracing for conduit racks per local code requirements.
- C. Approved "strut" systems: B-Line, Kindorf.

PART 3 - EXECUTION

3.01 Examination

A. Verify the physical dimensions of each item of electrical equipment to fit the available space and if conflicts appear, promptly notify the Architect prior to rough-in. Coordination of equipment to the available space and to the access routes through the construction shall be the Contractor's responsibility.

3.02 Installation

- A. Keep cutting and notching to an absolute minimum. Do not cut, channel or drill building structural members without obtaining written direction from Structural engineer. Employ qualified workmen to cut and patch concrete, masonry, wood, and other finished surfaces. Framing or finish work damaged by the Electrical Contractor shall be corrected at his expense in a manner approved by the Engineer.
- B. Arrange circuit wiring as shown on the Drawings and do not alter or combine runs or homeruns without the specific approval of the Engineer. Feeder runs shall not be recombined or altered.
- C. Relays, panels, cabinets, and equipment shall be level and plumb and installed parallel with structural building lines. All equipment and enclosures shall fit neatly without gaps, openings, or distortions. Provide approved devices for closing all unused openings.
- D. Contactors, transformers, starters, and similar noise producing devices shall not be placed on walls that are common to public spaces. Ballasts, contactors, starters, transformers, and like equipment which are found to be noticeably noisier than other similar equipment on the project will be deemed defective and shall be replaced.

3.03 Completion

- A. Complete each system and place in operation except where only roughing-in or partial systems are called for. Each system shall be tested and left in proper operation free of faults, shorts, or unintentional grounds.
- B. Upon request, demonstrate each system in the presence of the Electrical Engineer or Owner's Representative.

26 05 19 Conductors and Connectors

PART 1 - GENERAL

1.01 Work Included

A. Provide wires and cables as herein specified and as shown on the associated Drawings.

1.02 QUALITY ASSURANCE

A. Wire and cable shall conform to code and shall meet ASTM specifications.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. GENERAL CABLE CORPORATION
- B. Engineer approved alternate.

2.02 Materials

- A. No. 10 AWG and smaller conductors shall be Type "THHN" insulated, soft drawn stranded copper. No. 8 AWG and larger conductors shall be type "THWN" or "XHHW" insulated, soft drawn, Class B stranded copper. Minimum conductor size for branch circuits shall be No. 12 AWG unless otherwise noted.
- B. Aluminum conductors are not allowed on this project.
- C. Where adverse conductor exposure exists, code approved insulation suitable for the conditions encountered shall be used unless shown otherwise on the Drawings.
- D. Wire and cable shall be new, shall have grade of insulation, voltage, and manufacturer's name permanently marked on outer covering at regular intervals and shall be delivered in complete coils or reels with identifying size and insulation tags.

2.03 Low Voltage Wiring Methods

- A. Unless stated otherwise in these Specifications or on the Drawings, raceways shall be required only in underground locations for wiring of systems utilizing N.E.C. Class II current limitation methods (HVAC Control).
- B. Minimum acceptable conductor for low voltage controls shall be No. 18 AWG type THHN stranded copper.

PART 3 - EXECUTION

3.01 Splices and Terminations

A. Interior and dry location splices shall utilize 3M "SCOTCHLOCK" or IDEAL "Wing nut or Twister" connectors installed properly. Splices for No. 8 and larger wires may be made with approved pressure-type connectors. All taped joints shall be insulated with "3M SCOTCH 33" or equal, applied in half-lap layers without stretching to deform.

- B. Exterior damp or wet location splices shall be silicon filled connectors (IDEAL "BluSeal" or approved) sized as required for number and gauge of conductors.
- C. Insulation shall be removed with a stripping tool designed specifically for that purpose. A pocketknife is not an acceptable tool. All conductors shall be left nick-free.

3.02 Identification

- A. Phase, neutral, and grounding conductors shall be color-coded at equipment terminals with colored bands or with continuously colored insulation. Means of identification of multi-wire branch circuit conductors shall be permanently posted (engraved nameplate per Spec.260505) at each branch circuit panelboard and load center.
- B. 120/208 Volt 3-phase 4-wire wye system conductors shall be color-coded as follows:

Equipment ground: Green.

Isolated ground: Green with yellow stripe.

Phase A, B, and C conductors: Black, Red, and Blue.

Neutral: White.

C. Low Voltage Control wiring shall be color-coded Yellow and each conductor uniquely numbered.

3.03 INSTALLATION

- A. To minimize pulling forces, conductors shall be lubricated as they enter raceways. Utilize IDEAL Yellow 77, POLYWATER J or Engineer approved substitute.
- B. Provide and document an electrical resistance test of feeder conductors prior to pulling and after installation in raceways.
- C. Adjust wire size to account for voltage drop on long feeder and branch circuit runs.

26 05 33 Raceways and Cables

PART 1 - GENERAL

1.01 Work Included

A. Provide raceways, wireways, and associated fittings as herein specified and as shown on the Drawings.

1.02 APPLICATION

- A. Metal or plastic conduit may be used, restrictions as noted below and on drawings.
- B. Type NM/NMC/NMS cable may NOT be used on this project.
- C. Type SER cable may NOT be used on this project
- D. Type MC cable (steel or aluminum clad) not be used on this project.
- E. Rigid metal conduit (RMC) shall be used in hazardous (classified) areas and locations subject to mechanical injury, for elbows on PVC conduit (1" and larger) and where embedded in concrete. RMC in direct contact with earth shall be completely coated with bitumastic (asphalt emulsion) to 3" above grade.
- F. Electric Metallic Tubing (EMT) may be used in all dry and protected locations. EMT may also be used in exterior locations with approved watertight fittings.
- G. Flexible metal conduit (FMC) will be permitted only in dry interior areas where flexibility is necessary.
- H. Liquidtight flexible metal conduit (LFMC) shall be used for connection to all equipment subject to movement or vibration such as food service equipment, motors, heating-ventilating-airconditioning units, transformers, and Bapistry related equipment.
- I. Liquidtight flexible nonmetallic conduit, type B (LFNC-B) may be used in special applications as approved by Engineer.
- J. Rigid nonmetallic conduit (RNC Schedule 40 electrical PVC or fiberglass reinforced epoxy) may be used for underground or underfloor raceways where approved by AHJ. Furnish ground wire for each raceway.
- K. Surface metal or plastic raceways may be utilized only where necessary and approved by Owner or Engineer. Such raceways shall be painted to match adjacent finished surface.
- L. Drawing notes requiring a specific type of raceway shall take precedence over the Specifications.

1.03 Conduit Size

- A. Underfloor and underground raceways shall be a minimum of 3/4" in size.
- B. For branch and homeruns where no conduit size is shown on Drawings, size conduit according to wire fill per N.E.C. Table C1 for type THW.

PART 2 - PRODUCTS

2.01 Fittings

- A. Rigid and intermediate metal conduit shall be coupled and terminated with threaded fittings.
- B. Connectors and couplings for EMT shall be steel setscrew type, concrete tight, with insulated throats on connectors for interior use only.

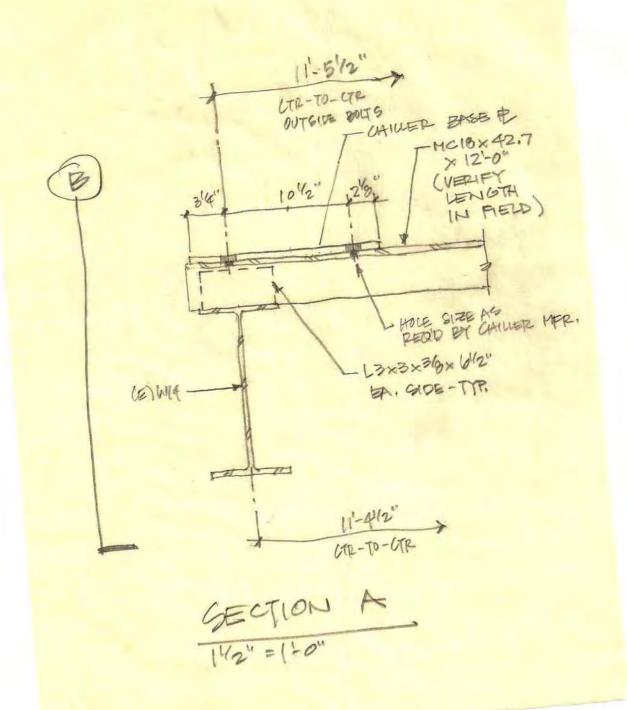
2.02 MANUFACTURERS

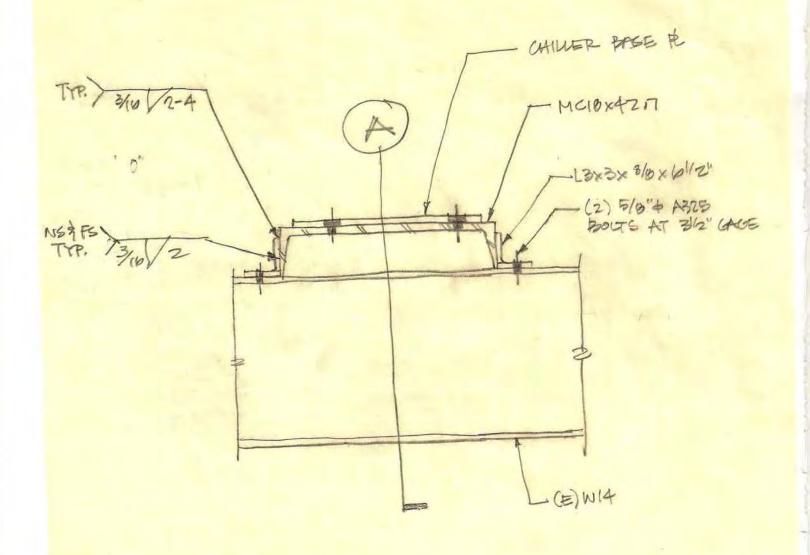
- A. MC: AFC CABLE SYSTEMS, ALCAN STABILOY
- B. EMT: ALLIED ELECTRICAL CONDUIT
- C. EMT & FLEX Fittings: HUBBELL/RACO
- D. FLEX: AFC CABLE SYSTEMS
- E. LFMC: LIQUATITE or LIQUID-TUFF.
- F. LFNC-B: LIQUATITE or LIQUID-TUFF.
- G. RNC: CARLON, PWEAGLE, FRE COMPOSITES
- H. Surface metal or plastic raceways: MONO-SYSTEMS INC, PANDUIT, or WIREMOLD.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Provide pull boxes where shown or required to limit the number of bends in any run to not more than three 90-degree bends.
- B. Conceal all wiring in finished spaces and elsewhere so far as practical. Conduits may run exposed in utility areas as approved by Engineer. Exposed raceways shall run parallel to structural lines.
- C. Spacing of supports shall be per code requirements, Support multiple runs of suspended conduits by hanger rods and "strut" complete with sway bracing. Support runs of raceway above flat roof decks (where allowed by Architect and Engineer) with closed cell polyethylene foam block supports ERICO Pipe Pier PP50-4, PP50-6, PP150 & PP300 or Engineer approved alternate.
- D. All conduits crossing expansion or seismic joints where cast in concrete shall be provided with appropriate fittings which permit movement, equal to O-Z/Gedney, Type EX or DX.
- E. Raceways shall be cleaned and free of all debris, moisture and obstructions prior to installation of conductors.
- F. Provide no. 12 pull wire or nylon pull line in all empty raceways. Number and label use of empty raceways at each end.





SECTION B



Project: KELLER AUDITORIUM

Subject: ROOF TOP CHILLER

Project No.: 14-062

Date: 9 SET 14

By: G.F. SHEA

Page:

GORY F

EXPIRES: 05-30-16

NEW CHILER IS TO BE MOUNTED ON EXISTING BEAMS.

bf = 678" ±

七二分五十

1 = 137/B" =

MOST PROBABLE BERM SIZE = WILY BO

ELEAN SPACINO = 11-4/2"

4 0 - 101 = HEINEL MASE

ERST END OF BEAM HAS AN EXPOSED COMMECTION

MOUNTING PLATE TO EAST SIDE OF (91" DOUGLETE PARATET

(4) 5/8" & ANCHOR BODS - PROBRED SET IN EFOXY

LEXEX FOX 15" WELLED TO MOUNT PLATE (SINGLE EIDE)

WELDS: 14" FILLETS - (B) EA. SIDE OF ANDLE LES

LENGTH VAPIES FROM NE"- 2"- 3"

BOUTS B" FROM TOP & BOTTOM - (1/2" FROM SIDES

(3) 5/8" & BOUTS - ANGLE TO SEAM

PLEST BOUT DOWN 4" FROM TOP OF BEAUT

BOUTS SPACED AT 3" O.C. - 3" FROM OUTSTANDING LEG

WEST END OF ECTIVA:

CONNECTION IS COVERED BY WEATHER PLATE (SHEET STEEL)
APPEARS BEAM POCKETS WTO LONGFETE WALL

ASSUME A307 BOUTS IN SINGLE SHEER

4 /- 12 = 3.48 = /80-T

C = 1.75

Ru/0 = 3,000+ (1.75) = 6,44 4

FROM EQUIPMENT MANUFACTUREES DATA:

MAXIMUM SUPPORT PEACTION = 6.164 & DOWNWARD

2.393K UPWARD

1,434 HOPIZ (X)

(. 529 HORIZ (Z)



Project: KELLER AUDITORIUM

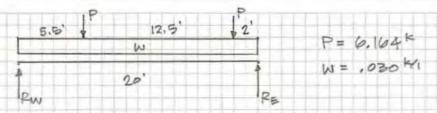
Subject: POOF TOP CHILLER

Project No.: 14-062

Date: 119EP14

By: G.F. SHEA

Page: 2

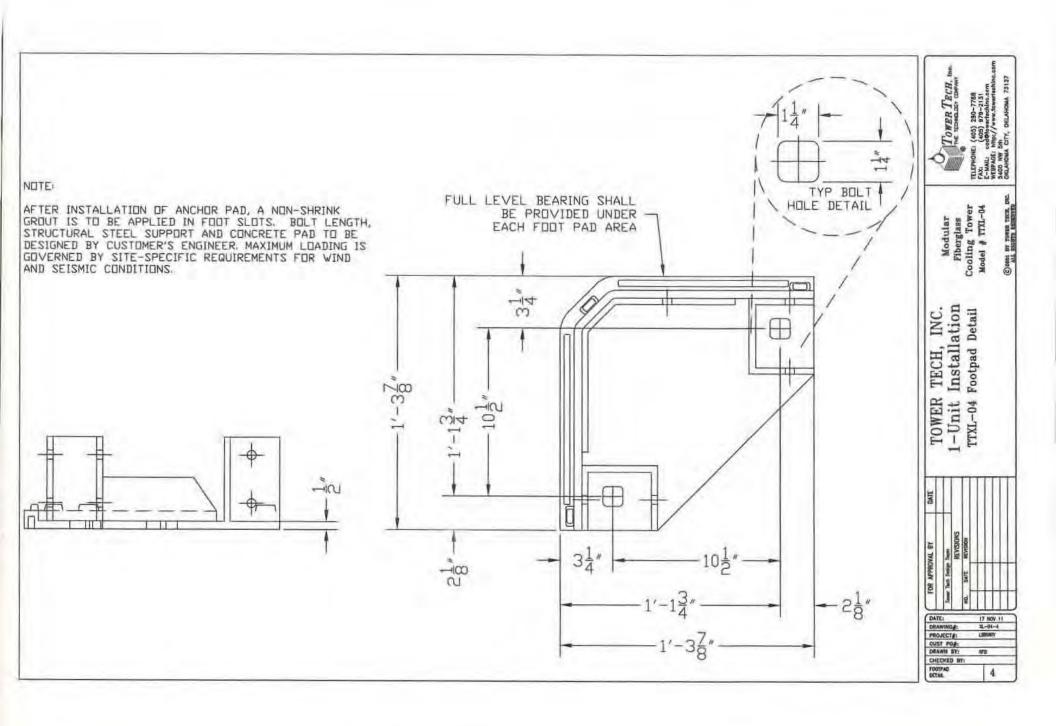


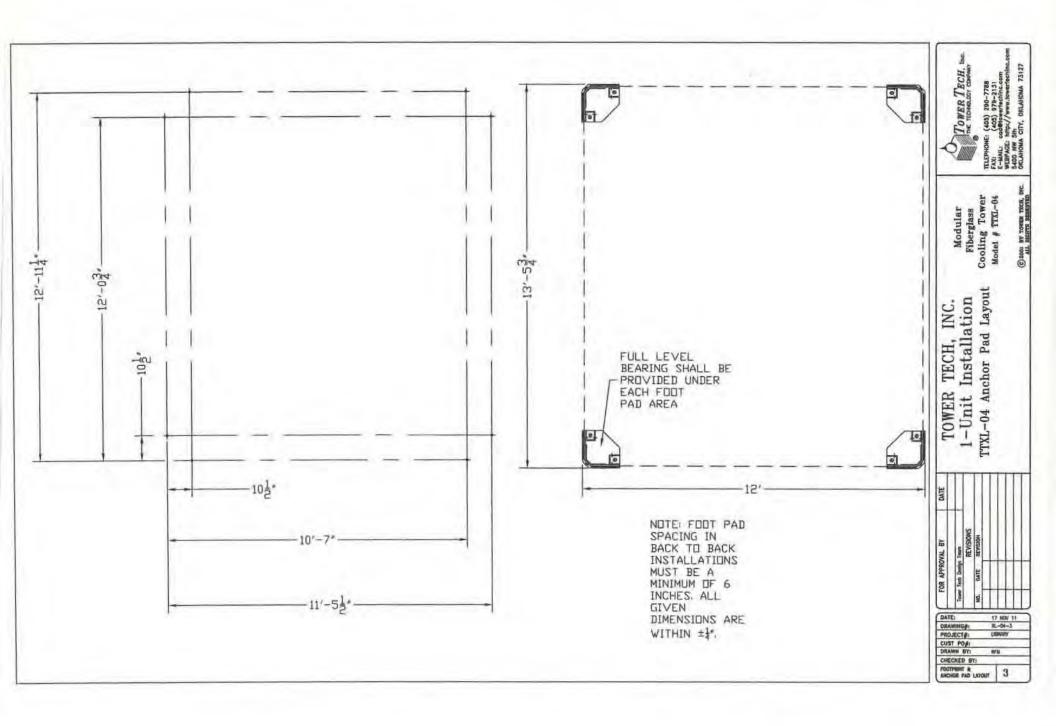
 $R_5 = .030(20)/2 + 6.(64(16/20) + 6.164(5.5)/20$ = .3 + 5.546 + 1.695 = 7.543 K

MAY REQUIRE CHANGING OUT BOLTE AT SACT END

BASS PLATES WILL NOT FIT ON BEAM FLANCES

MHAX = .03(20)78 + [2(6.164)-5.548-1,695] (5.5) = 1.5 + 28.0 = 29.5 kg MALLOW = 2 166 kg @ Lb = 20' DEAT





METROPOLITAN EXPOSITION RECREATION COMMISSION

RESOLUTION NO. 14-28

For the purpose of selecting Convergint Technologies, LLC., for the Oregon Convention Center – "Integrated Electronic Security Upgrade" and authorizing the Deputy Chief Operating Officer of Metro to execute a contract with Convergint Technologies, LLC.

WHEREAS, the Oregon Convention Center's (OCC) Security Camera and Access Control systems have reached the end of their useful life and require replacement; and

WHEREAS, MERC staff has worked with a security consultant to design a new integrated system to allow both systems to be operated more efficiently by security staff; and

WHEREAS, the project is included in the fiscal year 15 capital plan; and

WHEREAS, Section 4(D) of the Metropolitan Exposition Recreation Commission's ("MERC") Contracting and Purchasing Rules allows procurement of goods or services of \$100,000 or more to be awarded through issuance of competitive sealed proposals, in accordance with the provisions of ORS 279B.060; and

WHEREAS, MERC staff has evaluated the proposals and has selected Convergint Technologies as the most responsive and responsible proposer with a proposal amount of three hundred, thirty-seven thousand, nine hundred ninety-seven and no/100th dollars (\$337,997.00)

BE IT THEREFORE RESOLVED as follows:

- 1. MERC selects Convergint Technologies, LLC., as the most responsive and responsible proposer in response to the Request for Proposals for the Oregon Convention Center Integrated Electronic Security Upgrade.
- 2. MERC approves the contract with Convergint Technologies, LLC., in the form substantially similar to the attached Exhibit A and authorizes the Deputy Chief Operating Officer of Metro to execute the contract on behalf of the Commission.

Passed by the Commission on November 5, 201	4.
	Chair
	Secretary/Treasurer
Approved As to Form:	
Alison R. Kean, Metro Attorney	
By:	
Nathan A. S. Sykes	
Deputy Metro Attorney	

MERC STAFF REPORT

Agenda Item/Issue: For the purpose of selecting Convergint Technologies, LLC., for the Oregon Convention Center (OCC) -"Integrated Electronic Security Upgrade" and authorizing the Deputy Chief Operating Officer of Metro to execute a contract with Convergint Technologies, LLC.

Resolution No: 14-28 Presented by: Scott Cruickshank

Date: November 5, 2014

<u>Background and Analysis</u>: The OCC's current security camera and access control systems are over ten years old, unsupported and in need of replacement.

The OCC has an overall Physical Security Information Management Plan to upgrade security. This plan requires an upgrade of the existing security video management system, replacement of the existing Access Control System, integrating the new video system with the new Access Control System, and upgrade of the security console in the Security Operations Center.

The OCC utilizes 24/7 security staff to handle numerous tasks in both the Security Operations Center and on the main facility floor. From the Center by the west freight dock, staff control facility lighting systems; monitor security video cameras, intercoms and fire detection systems; and manage access to roll-up doors, card readers and controlled public entrances. Outside of the security center, security staff patrol, respond to alarms, and assist exhibitors and the public.

The OCC wants to digitize and migrate their current analog cameras to a new video monitoring system. This new system was selected by Metro as the standard for the organization and would allow the OCC to add high resolution video cameras during the upgrade.

The OCC's current Access Control System has reached its end-of-life. The funds for a replacement were budgeted in the FY 16 capital plan, however including this replacement with the video management project is a more efficient installation. OCC needs to replace its old Access Control System to allow integration with the new video monitoring system to use an established application programming interface software between the two systems. This will give the OCC the ability to view and monitor system alarms and related video segments from one workstation computer monitor.

With the transition to fully integrated video monitoring and access control systems, the OCC's security center will need an upgrade. This would include a new security console, four large digital video wall-monitors to manage the increased number of security cameras, and an improved arrangement of its various monitoring systems to address ergonomic concerns. The work performed under this contract will provide the OCC with the initial infrastructure necessary for future expansion of these systems as required by venue needs.

MERC Staff prepared and issued proposal documents and a Request for Proposals in accordance with MERC's purchasing policies for the Oregon Convention Center (OCC) -"Integrated Electronic Security Upgrade." In the proposal documents, MERC staff included requirements of a good faith effort for outreach to the MWESB and FOTA communities. In addition to these requirements, the RFP was published in the Asian Reporter, the DJC, and ORPIN.

On July 24, 2014, MERC Staff conducted a site walk for potential bidders in which ten security contractors and two subcontractors attended: Two subcontractors were ESBs, none were WBE, MBE or FOTA. Three proposals were received on August 19, 2014. One proposal was received from an ESB firm. The winning proposer was Convergint Technologies, LLC, for a contract amount of three hundred, thirty-seven thousand, nine hundred ninety-seven & 00/100 dollars (\$337,997.00). The winning proposer Convergint Technologies, LLC, is neither an MWESB firm nor is it located in the FOTA but it did include two MWESB subcontractors for this project.

FISCAL IMPACT: This project has a budget of \$230,000.00 in FY 2015. There is enough budget appropriation authority in the MERC Fund to approve the entire contract amount in FY 2015. The budget shortfall will be funded though a contribution from the Aramark Reserve account and savings from Phase II of the Roof Replacement Project. OCC staff planned for a contribution of \$55,000.00 from the Aramark Reserve fund to provide for cameras requested by Aramark.

RECOMMENDATION: Staff recommends that the Metropolitan Exposition-Recreation Commission, by Resolution No. 14-28, approve the contract award and written contract (attached hereto) with Convergint Technologies, LLC., for the amount of three hundred, thirty-seven thousand, nine hundred ninety-seven & 00/100 dollars (\$337,997.00) for the Oregon Convention Center (OCC) -"Integrated Electronic Security Upgrade."



600 NE Grand Ave., Portland, OR 97232-2736

503-797-1700

MERC CONTRACT NO. 305006

For Public Contracts \$50,000 & Above

THIS Contract is entered into between Metropolitan Exposition Recreation Commission (MERC), an appointed commission of Metro, whose address is 600 NE Grand Avenue, Portland, Oregon 97232-2736, and Convergint Technologies, LLC, whose address is 16575 SW 72nd Ave, Portland, OR 97224, hereinafter referred to as the "CONTRACTOR."

THE PARTIES AGREE AS FOLLOWS:

ARTICLE I SCOPE OF WORK

CONTRACTOR shall perform the work and/or deliver to MERC the goods described in the Scope of Work attached hereto as Attachment A. All services and goods shall be of good quality and, otherwise, in accordance with the Scope of Work.

ARTICLE II TERM OF CONTRACT

The term of this Contract shall be for the period commencing November 12, 2014, through and including May 29, 2015, with substantial completion by April 30, 2015. This agreement may be amended or extended at MERC's sole discretion.

ARTICLE III CONTRACT SUM AND TERMS OF PAYMENT

MERC shall pay the CONTRACTOR for work performed and/or goods supplied as described in the Scope of Work, in the maximum amount of THREE HUNDRED THIRTY-SEVEN THOUSAND, NINE HUNDRED NINETY-SEVEN AND NO/100TH DOLLARS (\$337,997.00)(the "Maximum Price").

Itemized Pricing and Hourly Rates per Pricing Schedule hereto attached as Attachment F

MERC shall not be responsible for payment of any materials, expenses or costs other than those which are specifically included in the Scope of Work. The Maximum Price includes all fees, costs and expenses of whatever nature. Each of MERC's payments to Contractor shall equal the percentage of the work Contractor accomplished during the billing period. Contractor's billing invoices shall include the MERC contract number, Contractor name, remittance address, invoice date, invoice number, invoice amount, tax amount (if applicable), and an itemized statement of work performed and expenses incurred during the billing period, and will not be submitted more frequently than once a month.

Contractor's billing invoices shall be sent to Metro Accounts Payable, 600 NE Grand Avenue, Portland, OR 97232-2736 or metroaccountspayable@oregonmetro.gov. The MERC contract number shall be referenced in the email subject line. Contractor's billing invoices for services through June 30 shall be submitted to Metro by July 15. Payment shall be made by MERC on a Net 30 day basis upon approval of CONTRACTOR invoice.

ARTICLE IV LIABILITY AND INDEMNITY

CONTRACTOR is an independent contractor and assumes full responsibility for the content of its work and performance of CONTRACTOR'S labor, and assumes full responsibility for all liability for bodily injury or physical damage to person or property arising out of or related to this Contract, and shall indemnify, defend and hold harmless MERC, its agents and employees, from any and all claims, demands, damages, actions, losses, and expenses arising out of or in any way connected with its performance of this Contract. CONTRACTOR is solely responsible for paying CONTRACTOR'S subcontractors and nothing contained herein shall create or be construed to create any contractual relationship between any subcontractor(s) and MERC. Such indemnification by Licensee shall apply unless such damage or injury results from the lose negligence or willful misconduct of MERC or Metro. In no event shall either Convergint or customer be liable to the other party hereto for special, indirect, incidental, or consequential damages, including commercial loss, loss of use or lost profits, even if that party has been advised of the possibility of such damages

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MERC CONTRACT NO. 305006

In no event shall either Convergint or customer be liable to the other party hereto for indirect, incidental, or consequential damages, including commercial loss, loss of use or lost profits, even if that party has been advised of the possibility of such damages.

ARTICLE V TERMINATION

MERC may terminate this Contract upon giving CONTRACTOR seven (7) days written notice. In the event of termination, CONTRACTOR shall be entitled to payment for work performed to the date of termination. MERC shall not be liable for indirect, consequential damages or any other damages. Termination by MERC will not waive any claim or remedies it may have against CONTRACTOR.

ARTICLE VI **INSURANCE & BONDS**

CONTRACTOR shall purchase and maintain at the CONTRACTOR'S expense, the following types of insurance, covering the CONTRACTOR, its employees, and agents:

- A. The most recently approved ISO (Insurance Services Office) Commercial General Liability policy, or its equivalent, written on an occurrence basis, with limits not less than \$1,000,000 per occurrence and \$1,000,000 aggregate. The policy will include coverage for bodily injury, property damage, personal injury, contractual liability, premises and products/completed operations. CONTRACTOR'S coverage will be primary as respects METRO;
- B. Automobile insurance with coverage for bodily injury and property damage and with limits not less than minimum of \$1,000,000 per occurrence:
- C. Workers' Compensation insurance meeting Oregon statutory requirements including Employer's Liability with limits not less than \$500,000 per accident or disease; and
- D. Professional Liability Insurance, with limits of not less than \$1,000,000 per occurrence, covering personal injury and property damage arising from errors, omissions or malpractice.

METRO, MERC, its elected officials, departments, employees, and agents shall be named as ADDITIONAL INSUREDS on Commercial General Liability and Automobile policies.

CONTRACTOR shall provide to MERC 30 days notice of any policy cancellation.

CONTRACTOR shall provide MERC with a Certificate of Insurance complying with this article upon return of the CONTRACTOR signed agreement to MERC. Certificate of Insurance shall identify the MERC contract number.

CONTRACTOR shall not be required to provide the liability insurance described in this Article only if an express exclusion relieving CONTRACTOR of this requirement is contained in the Scope of Work.

In addition, for public works subject to ORS 279C.800 to 279C.870, CONTRACTOR and every subcontractor shall have a public works bond required by 2005 Oregon Laws Chapter 360 filed with the Construction Contractors Board before starting work on the project, unless exempt under Section 2 of 2005 Oregon Laws Chapter 360.

ARTICLE VII PUBLIC CONTRACTS

All applicable provisions of ORS chapters 187 and 279A, 279B, and 279C and all other terms and conditions necessary to be inserted into public contracts in the State of Oregon, are hereby incorporated as if such provision were a part of this Agreement. Specifically, it is a condition of this contract that CONTRACTOR and all employers working under this Agreement are subject employers that will comply with ORS 656.017 as required by 1989 Oregon Laws, Chapter 684.

For public work subject to ORS 279C.800 to 279C.870, the CONTRACTOR shall pay prevailing wages. If such public work is subject both to ORS 279C.800 to 279C.870 and to 40 U.S.C. 276a, the CONTRACTOR and every subcontractor on such public work shall pay at least the higher prevailing wage. The CONTRACTOR and each subcontractor shall pay workers not less than the specified minimum hourly rate of wage in accordance with Section 7 of



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2005 Oregon Laws Chapter 360. MERC shall pay an administrative fee as provided in ORS 279C.825(1) to the Bureau of Labor and Industries pursuant to the administrative rules established by the Commissioner of Labor and Industries. CONTRACTORS must promptly pay, as due, all persons supplying to such contractor labor or material used in this contract. If the CONTRACTOR or first-tier subcontractor fails, neglects, or refuses to make payment to a person furnishing labor or materials in connection with the public contract for a public improvement within 30 days after receipt of payment from the public contracting agency or a contractor, the CONTRACTOR or first-tier subcontractor shall owe the person the amount due plus shall pay interest in accordance with ORS 279C.515. If the CONTRACTOR or first-tier subcontractor fails, neglects, or refuses to make payment, to a person furnishing labor or materials in connection with the public contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. CONTRACTOR must pay any and all contributions and amounts due to the Industrial Accident Fund from contractor or subcontractor and incurred in the performance of the contract. No liens or claims are permitted to be filed against MERC on account of any labor or material furnished. CONTRACTORS are required to pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

For public improvement work all CONTRACTORS must demonstrate that an employee drug-testing program is in place.

ARTICLE VIII MODIFICATIONS

MERC may approve changes and modifications to the original contract, including deletions of work, order of additional materials, and additional services reasonably related to the original work scope. Contractor may propose changes in the work that Contractor believes are necessary, will result in higher quality work, improve safety, decrease the amount of the contract, or otherwise result in a better or more efficient work product. If such changes are approved by MERC, they shall be executed by written contract amendment signed by both parties. Such changes shall not relieve Contractor of any obligation or warranty under the contract. No oral statements by either party shall modify or affect the terms of the contract.

ARTICLE IX QUALITY OF GOODS AND SERVICES

Unless otherwise specified, all materials shall be new and both workmanship and materials shall be of the highest quality. All workers and subcontractors shall be skilled in their trades. CONTRACTOR guarantees all work against defects in material or workmanship for a period of one (1) year from the date of acceptance or final payment by MERC, whichever is later. All guarantees and warranties of goods furnished to CONTRACTOR or subcontractors by any manufacturer or supplier shall be deemed to run to the benefit of MERC.

ARTICLE X OWNERSHIP OF DOCUMENTS

Unless otherwise provided herein, all documents, instruments and media of any nature produced by CONTRACTOR pursuant to this agreement are Work Products and are the property of MERC, including but not limited to: drawings, specifications, reports, scientific or theoretical modeling, electronic media, computer software created or altered specifically for the purpose of completing the Scope of Work, works of art and photographs. Unless otherwise provided herein, upon MERC request, CONTRACTOR shall promptly provide MERC with an electronic version of all Work Products that have been produced or recorded in electronic media. MERC and CONTRACTOR agree that all work Products are works made for hire and Contractor hereby conveys, transfers, and grants to MERC all rights of reproduction and the copyright to all such Work Products.

- A. CONTRACTOR and subcontractors shall maintain all fiscal records relating to such contracts in accordance with generally accepted accounting principles. In addition, CONTRACTOR and subcontractors shall maintain any other records necessary to clearly document:
 - 1. The performance of the CONTRACTOR, including but not limited to the contractor's compliance with contract plans and specifications, compliance with fair contracting and employment programs, compliance with Oregon law on the payment of wages and accelerated payment provisions; and compliance with any and all requirements imposed on the CONTRACTOR or subcontractor under the terms of the contract or subcontract;



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MERC CONTRACT NO. 305006

- 2. Any claims arising from or relating to the performance of the CONTRACTOR or subcontractor under a public contract;
- 3. Any cost and pricing data relating to the contract; and
- 4. Payments made to all suppliers and subcontractors.
- B. CONTRACTOR and subcontractors shall maintain records for the longer period of (a.) six years from the date of final completion of the contract to which the records relate or (b.) until the conclusion of any audit, controversy or litigation arising out of or related to the contract.
- C. CONTRACTOR and subcontractors shall make records available to METRO, and its authorized representatives, including but not limited to the staff of any METRO department and the staff of the METRO Auditor, within the boundaries of the METRO region, at reasonable times and places regardless of whether litigation has been filed on any claims. If the records are not made available within the boundaries of METRO, the CONTRACTOR or subcontractor agrees to bear all of the costs for METRO employees, and any necessary consultants hired by METRO, including but not limited to the costs of travel, per diem sums, salary, and any other expenses that Metro incurs, in sending its employees or consultants to examine, audit, inspect, and copy those records. If the CONTRACTOR elects to have such records outside these boundaries, the costs paid by the CONTRACTOR to METRO for inspection, auditing, examining and copying those records shall not be recoverable costs in any legal proceeding.
- D. CONTRACTOR and subcontractors authorize and permit METRO and its authorized representatives, including but not limited to the staff of any METRO department and the staff of the METRO Auditor, to inspect, examine, copy and audit the books and records of CONTRACTOR or subcontractor, including tax returns, financial statements, other financial documents and any documents that may be placed in escrow according to any contract requirements. METRO shall keep any such documents confidential to the extent permitted by Oregon law, subject to the provisions of section E.
- E. CONTRACTOR and subcontractors agree to disclose the records requested by METRO and agree to the admission of such records as evidence in any proceeding between METRO and the CONTRACTOR or subcontractor, including, but not limited to, a court proceeding, arbitration, mediation or other alternative dispute resolution process.
- F. CONTRACTOR and subcontractors agree that in the event such records disclose that METRO is owed any sum of money or establish that any portion of any claim made against Metro is not warranted, the CONTRACTOR or subcontractor shall pay all costs incurred by METRO in conducting the audit and inspection. Such costs may be withheld from any sum that is due or that becomes due from METRO.
- G. Failure of the CONTRACTOR or subcontractor to keep or disclose records as required by this document or any solicitation document may result in disqualification as a bidder or proposer for future METRO contracts as provided in ORS 279B.130 and Metro Code Section 2.04.070(c), or may result in a finding that the CONTRACTOR or subcontractor is not a responsible bidder or proposer as provided in ORS 279B.110 and Metro Code Section 2.04.052.

ARTICLE XI SUBCONTRACTORS

CONTRACTOR shall contact MERC prior to negotiating any subcontracts and CONTRACTOR shall obtain approval from MERC before entering into any subcontracts for the performance of any of the services and/or supply of any of the goods covered by this Contract.

MERC reserves the right to reasonably reject any subcontractor or supplier and no increase in the CONTRACTOR'S compensation shall result thereby. All subcontracts related to this Contract shall include the terms and conditions of this agreement. CONTRACTOR shall be fully responsible for all of its subcontractors as provided in Article IV.

ARTICLE XII
RIGHT TO WITHHOLD PAYMENTS



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MERC shall have the right to withhold from payments due CONTRACTOR such sums as necessary, in MERC's sole opinion, to protect MERC against any loss, damage or claim which may result from CONTRACTOR'S performance or failure to perform under this agreement or the failure of CONTRACTOR to make proper payment to any suppliers or subcontractors. In addition for public improvement work, if a CONTRACTOR is required to file certified statements under ORS 279C.845, MERC shall retain 25 percent of any amount earned by the CONTRACTOR on the public works until the contractor has filed all required certified statements with MERC.

If a liquidated damages provision is contained in the Scope of Work and if CONTRACTOR has, in MERC's opinion, violated that provision, MERC shall have the right to withhold from payments due CONTRACTOR such sums as shall satisfy that provision. All sums withheld by MERC under this Article shall become the property of MERC and CONTRACTOR shall have no right to such sums to the extent that CONTRACTOR has breached this Contract.

ARTICLE XIII SAFETY

If services of any nature are to be performed pursuant to this agreement, CONTRACTOR shall take all necessary precautions for the safety of employees and others in the vicinity of the services being performed and shall comply with all applicable provisions of federal, state and local safety laws and building codes, including the acquisition of any required permits.

ARTICLE XIV INTEGRATION OF CONTRACT DOCUMENTS

All of the provisions of any procurement documents including, but not limited to, the Advertisement for Bids, Proposals or responses, General and Special Instructions to Bidders, Proposal, Scope of Work, and Specifications which were utilized in conjunction with the bidding of this Contract are hereby expressly incorporated by reference. Otherwise, this Contract represents the entire and integrated agreement between MERC and CONTRACTOR and supersedes all prior negotiations, representations or agreements, either written or oral. This Contract may be amended only by written instrument signed by both MERC and CONTRACTOR. The laws of the state of Oregon shall govern the construction and interpretation of this Contract.

ARTICLE XV COMPLIANCE

CONTRACTOR shall comply with federal, state, and local laws, statutes, and ordinances relative to the execution of the work. This requirement includes, but is not limited to, non-discrimination, safety and health, environmental protection, waste reduction and recycling, fire protection, permits, fees and similar subjects.

ARTICLE XVI INTERGOVERNMENTAL COOPERATIVE AGREEMENT

Pursuant to ORS 279A and the Metro public contract code, Metro participates in an Intergovernmental Cooperative Purchasing program by which other public agencies shall have the ability to purchase the goods and services under the terms and conditions of this awarded contract. Any such purchases shall be between the Contractor and the participating public agency and shall not impact the Contractor's obligation to Metro under this agreement. Any estimated purchase volumes listed herein do not include volumes for other public agencies, and Metro makes no guarantee as to their participation in any purchase. Any Contractor may decline to extend the prices and terms of this solicitation to any or all other public agencies upon execution of this contract. Unless the Contractor specifically declines to participate in the program by marking the box below, the Contractor agrees to participate in the Intergovernmental Cooperative Purchasing program. Contractor declines to participate in the Intergovernmental Cooperative Purchasing program or is not applicable to this Contract as indicated by the following initials ________.

ARTICLE XVII SITUS



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MERC CONTRACT NO. 305006

The situs of this Agreement is Portland, Oregon. Any litigation over this agreement shall be governed by the laws of the State of Oregon and shall be conducted in the Circuit Court of the state of Oregon for Multnomah County, or, if iurisdiction is proper, in the U.S. District Court for the District of Oregon.

ARTICLE XVIII ASSIGNMENT

CONTRACTOR shall not assign any rights or obligations under or arising from this Contract without prior written consent from MERC.

ARTICLE XIV **SEVERABILITY**

The parties agree that any provision of this Contract that is held to be illegal, invalid, or unenforceable under present or future laws shall be fully severable. The parties further agree that this Contract shall be construed and enforced as if the illegal, invalid, or unenforceable provision had never been a part of them and the remaining provisions of the Contract shall remain in full force and effect and shall not be affected by the illegal, invalid, or unenforceable provision or by its severance from this Contract. Furthermore, a provision as similar to the illegal, invalid, or unenforceable provision as is possible and legal, valid and enforceable shall be automatically added to this Contract in lieu of the illegal, invalid, or unenforceable provision. Any failure by MERC to enforce a provision of the Contract is not to be construed as a waiver by MERC of this right to do so.

ARTICLE XX **COUNTERPARTS**

This Contract may be executed in counterparts or multiples, any one of which will have the full force of an original.

ARTICLE XXI **DELIVERY OF NOTICES**

Any notice, request, demand, instruction, or any other communications to be given to any party hereunder shall be in writing, sent by registered or certified mail or fax as follows:

To Contractor: Anthony Wilson

Convergint Technologies, LLC

16575 ŠW 72nd Ave Portland, OR 97224 503-228-8521 fax

To Metro: Metro Procurement Services

> 600 NE Grand Ave Portland, Oregon 97232 503-797-1791 fax

With Copy to: Josh Lipscomb

> 600 NE Grand Ave Portland, OR 97232 503-797-1795 fax

CONTRACTOR	METROPOLITAN EXPOSITION RECREATION COMMISSION
Ву	Ву
Print Name	Print Name
Date	Date

600 NE Grand Ave., Portland, OR 97232-2736 503-797-1700

MERC Contract No. 305006

1. Purpose and Goal of Work

MERC is contracting for an Integrated Electronic Security Upgrade for The Oregon Convention Center (OCC), located at 777 NE MLK Jr. Blvd, Portland, OR 97232. Contractor shall complete an upgrade of the OCC's existing Video Management System (VMS), replace the existing Access Control System (ACS), integrate the upgraded VMS with the new ACS, and upgrade the Security Operations Center (SOC). Contractor is to furnish and install all materials listed in the contract and provide all labor necessary for execution of all work as described in the scope of work, unless otherwise stated.

2. Description of the Scope of Work

In this Contract's Scope of Work, Metro's On-Net Surveillance Systems Inc. (OnSSI) VMS licenses will be upgraded/added in the following 6 step process:

- 1. Metro's PS Base License and PS Camera Licenses will be abandoned.
- 2. Metro's IS Base License will be upgraded from 32bit "IS" to 64bit "LS".
- 3. Two (2) OCC "LS" recording server licenses will be provided for 2 new recording servers supplied by Metro. (Of Metro's (80) existing 32bit IS camera channel licenses, all 80 IS camera licenses will remain on Metro's Zoo "IS" recording server and will not be upgraded to LS.)
- Ninety six (96) new 64bit "LS" camera channel licenses will be added to the OCC recording servers (operating under Metro's upgraded LS Base License) to support OCC's baseline requirements of this contract.
- 5. An additional 14 "LS" camera channel license will be added for each OCC "Optional" camera selected.
- 6. All new or upgraded OnSSI "LS" licenses will have an OnSSI "Current" software upgrade plan that is prorated to coincide with Metro's existing Feb 7, 2015 "Current" renewal date.

Of its 73 existing analog cameras, OCC's security camera requirement includes removing one (1) camera (from the north shipping dock area), replacing eight (8) others with new MegaPixel (MP) digital cameras, and converting the remaining 64 analog cameras to digital with H.264 Encoders. For ease of installation, new H.264 encoders will be installed in the current rack provided for the Kalatel equipment. The Kalatel equipment will be removed once all cameras are migrated to the OnSSI VMS. Of the analog cameras that are converted to digital, twelve (12) will require some servicing or adjustment. This conversion project will add seventy-three (73) existing cameras (64 analog and 9 digital) to OCC's new "LS" recording servers. Additionally OCC will add thirty-seven (37) new digital cameras. The total security cameras being recorded on OCC's new OnSSI LS recording servers under this system upgrade will be one hundred ten (110) cameras. All new LS camera channel licenses for OCC will be provided with software upgrade "Current" plans prorated to Metro's Feb 7, 2015 renewal date, including any accepted alternate cameras.

A.1 Security Access Control System (ACS) Replacement

OCC currently operates an Infographics Diamond II ACS that has reached its product "end-of-life". OCC needs the system replaced with a leading ACS that is capable of offering the feature set and future expansion of the card reader system at OCC. iClass SE Card Readers and Credentials will be utilized. The S2 ACS selected will be integrated with the OnSSI Video Management System with a proven, off-the-shelf API for integrating video segments and video control from within the ACS alarm report screen.

OCC's existing Diamond II system utilizes ACUs (Access Control Units) as "Network Intelligent Controllers" that communicate with RREs (Remote Reader Electronics) at the door for card reader control, RIMs (Remote Input Modules), and RRMs (Remote Relay Modules). There are a total 4 ACU's, 14 RIMs, 16 RREs, and 2 RRMs. Two of the RREs are installed next to the ACU-0 at the P2 Parking office, and the rest of the RIMs, RREs, and RRMs are installed near the doors they control or monitor. The system also monitors 14 sets of glass entry and rollup doors with each set comprised of 4

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to 6 doors. Refer to the "OCC's Existing Diamond II ACS Configuration" document included as Attachment D for detailed information. Where feasible contractor will reuse the existing ACS cabling and enclosures. The Diamond II system currently controls 16 card readers and 33 individual rollup doors and parking gates remotely from a graphic map. These card readers will be replaced with HID iClass RP40 Wall Switch Readers.

Alternate #18 from the RFP has been accepted by MERC will provide equipment and installation of the Mercury card reader controllers, power supplies, input/output boards, and other system elements required to replicate the functions of the existing Diamond II ACS.

ACS Installation Approach

OCC will remove the Diamond II controller boards from each of the ACU, RIM, RRE, and RIM enclosures and label each connecting cable. Contractors will assume that all existing cabling and enclosures can be reutilized. Contractor will be responsible for removing power supplies and replacing with new. As most of the RIMS, RREs, and RRMs are mounted high above the doors they monitor, Contractor will provide a high-lift for removal and replacement of the ACS controllers.

The Contractor shall schedule the removal of the Diamond II controllers by OCC's designated technician with the installation of the new ACS controllers by the Contractor. Contractor shall schedule work to minimize delays during this changeover.

A.2 Integration of the upgraded Video System with the replaced Access Control System

The integration of the OnSSI VMS with the new ACS will be accomplished through the use of established "off-the-shelf" Application Programming Interface (API) software that will provide data sharing between the two systems. Each of these systems is a separate distinct system, they will communicate with each other with an API "data bridge" that allows them to share alarm and video information. This API will allow OCC to automatically monitor related security video clips from the ACS alarm record without having to search both systems independently.

A.3 Security Operations Center (SOC) Upgrade

Contractor is to provide and install a new security console and camera viewing station. The new design incorporates a Winsted security console with additional cabinetry, and four (4) "46" LCD wall computer monitors for viewing selected security camera video. These monitors are arranged in a "V" configuration in the NW corner of the SOC.

The Kalatel DVRs and a Digiplex Matrix Switcher are rack mounted in an equipment room in the SOC. Contractor will remove and replace the Kalatel equipment with rack mounted H.264 Encoders which will be mounted in the existing rack. A digital joystick will be provided for the new OnSSI VMS view station to be located in the NW corner of the SOC. The joystick will also have a camera selection feature for displaying security camera video on any one of the four new 46" HD LCD monitors to be mounted in the NW corner of the SOC.

Photos of the existing SOC with drawings of the redesigned SOC are provided in Attachment D

General Instructions

OCC's OnSSI VMS shall be upgraded from an "IS" Base license to a "LS" Base License, and integrated with the new ACS using an established and proven API so that alarm related security video segments can be linked to the ACS alarm record and viewed from a single computer monitor.



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- 2. Contractor will reuse all serviceable electronic door locking hardware, motion detectors, and door position switches. Existing ACS and VMS cable will be reutilized where feasible. Where existing Coax cable can be used for new IP network cameras, video-over-coax converters will be used.
- Contractor will replace the existing card readers with new HID iClass SE card readers.
- 4. Contractor will assume that existing ACS cabling to the reader, door locks, and door sensors is in good condition to support the new ACS.
- Any additional cabling required to support the new ACS will be provided and installed by the Contractor.
- 6. Contractor is responsible for properly recycling or disposing of the outdated ACS or VMS related equipment it removes and replaces.
- 7. The new ACS controllers will be Mercury controllers to ensure availability from multiple commercial suppliers across various ACS platforms.
- 8. All new camera cable must be Cat 6, color coded and approved by Metro's Information Systems Department. OCC has standardized on CAT 6 cable for its camera and LAN requirements.
- 9. New ACS card readers will be HID iCLASS SE with the model appropriate for the location (i.e. mullion readers for glass storefronts and wall switch readers for hallways, entrances, and gates).
- 10. Contractor will provide one (1) ACS video ID badge station client software, ID badge camera, and ID Badge Printer. The Badge client will be installed on an existing OCC work station. The ID Badge Printer will be a dual sided ID ISO-30 badge printer. The ID Badge printer shall be a Magicard Rio Pro or Fargo DTC1250e.
- 11. OCC will require 1000 of the iCLASS SE photo printable contactless Smart Card ID badge card stock for its ACS ID Badge Client.
- Contractor will provide eleven (11) ACS and VMS administrative clients for OCC's existing desktop workstations for system administrators
- 13. Where existing ACS doors are monitored for door position, that monitoring will continue with the new ACS.
- 14. LAN UPS equipment, if needed, will be provided by OCC.
- 15. Contractor will provide new power supplies and a minimum of one hour of battery backup for all ACS panels.
- 16. Existing security cameras will continue to utilize existing power supplies.
- 17. Existing composite cameras scheduled for conversion to digital format will utilize an H.264 video encoder for conversion to digital for migration to the OnSSI VMS.
- 18. OCC will provide standard LAN switches, and PoE LAN switches for camera LAN connectivity to the LAN and to provide power to new cameras that are PoE,
- 19. Circuit protection will be provided for all ACS panels. Lightning and surge protection will be provided for all VMS and ACS equipment susceptible to such conditions.
- Contractor will provide 1-year software support agreement for the ACS. Contractor will also
 provide software support for new components of the upgraded OnSSI VMS system to include the
 upgraded base management software and new component licensing (i.e. camera licenses)
 prorated to Feb 7, 2015.



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- 21. In addition to routine service for the equipment it installs, Contractor will provide 4 hr "Emergency Response" for critical service support as requested by OCC, or next day "Priority Service" as requested by OCC.
- 22. Four (4) VMS Smart Phone Apps will be provided for OCC Staff to monitor video remotely from their smart phones.
- The Warranty period for new ACS and VMS system and its components will be as provided by the Manufacturer.

A.5 Material Requirements

Contractor will:

- 1. Provide and install all materials and products per manufacturer's specifications.
- Where test standards exist, all electronic products furnished by the contractor for construction shall be UL listed by a national recognized testing agency to meet the requirements of State of Oregon Electrical Code. All material, products, and components furnished by the contractor shall be manufactured, assembled, installed, and tested in accordance with the current industry standards.
- All equipment, labor and materials shall be provided by the contractor except as noted below or elsewhere in this document.
 - a. Equipment/Items provided by OCC:
 - i. Telecommunication ground bus bar (TGB)
 - ii. Desktop Workstations (PCs with MS/OS clients)
 - iii. (2) OCC VMS Recording Servers.
 - iv. UPS power supplies for Recording Servers and LAN switches.
 - v. Server Racks
 - vi. Grounding materials and labor for the server cabinets
 - vii. Facility Floor Plans in electronic format for use with VMS camera location graphics
 - viii. Paint and Patching required as a result of card reader replacement
 - b. Contractor requirements:
 - i. Power supplies and backup batteries for the new ACS will be new equipment, and provided by the Contractor.

OCC will:

1. Remove all existing wall cabinets and relocate the fire panel and other facility control panels in the SOC as required for the new security console.

A.6 Documentation Contractor to Provide

Contractor shall provide documentation to OCC as specified in this section:

- Product Samples/Cut sheets Contractor shall submit to MERC's Project Manager or designee for approval all specification sheets of equipment/cameras/encoders/video monitor and computer to be installed.
- 2. Project Plan Contractor shall brief MERC's Project Manager or designee on a project plan, which will include all tasks required to successfully complete the project, with responsibility, due date, and expected time frames required to complete each task (by site), based on the current schedule. This plan shall coordinate the contractor's required tasks with OCC's scheduling requirements.
- 3. Project As-built Drawings OCC will provide CAD baseline drawings. Contractor is required to provide final "As-built" electronic CAD drawings to MERC's Project Manager which document all

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the components installed connected with this proposal. Contractor shall provide electronic copies denoting final device/equipment placement.

A.7 **Minimum Requirements**

- Project Management Contractor shall provide a project manager throughout the course of the installation to provide coordination of work, to work with MERC, and provide technical information when requested. This person(s) shall be responsible for quality control during installation and testing.
- 2. Project Meetings - The Contractor's on-site project manager shall attend the kick-off meeting and weekly update meetings, and other required project meetings throughout the project to ensure good coordination with work related activities.
- Inspections Contractor's Project Manager shall attend all site inspections as requested by the OCC Project Manager.
- Work Standards All work shall be accomplished in strict conformity with all applicable building codes, laws and ordinances.
- Permits, License, and Inspection Fees Contractor must be licensed to perform work at OCC, and shall prepare and submit to all authorities having jurisdiction, all applications and working drawings as required. Contractor shall obtain all necessary permits and certificates of compliance or approval and deliver these to OCC; OCC is enrolled in the facility permit program with the city of Portland and as such will pay for all permits.
- Service Disruption Contractor will make every diligent effort to avoid disruption of services or business activities at OCC. Contractor will advise the MERC Project Manager or designee in a timely manner if service must be disrupted to accomplish the scope of work. Contractor will coordinate cut-over's with already scheduled down times and be well prepared to meet downtime schedule.
- 7. New Equipment - All equipment furnished by the contractor shall be new, unused and currently in regular production.
- 8. All electrical equipment components and cameras shall be UL listed by a national recognized testing agency to meet the requirements of State of Oregon Electrical Code.
- Any items omitted from this contract that are clearly necessary for the operation of such equipment, although not directly specified or called for in these specifications, shall be considered a portion of such equipment.

Unacceptable Activities

- a. No alcoholic beverages, illegal drugs, illegal activities, etc. will be permitted on OCC premises.
- b. When requested by OCC, Contractor shall remove from the premises any of its employees or subcontractors who are abusive, harassing, or insubordinate to OCC, their employees, agents, consultants, Contractors, or are suspect for the use of drugs and/or alcohol.

11. Debris Removal

- a. Contractor shall maintain a clean work site of debris such as pallets, cable scraps, packaging, etc. These items shall be removed daily.
- To support the OCC's sustainability goals, materials being removed from the worksite shall be recycled and receipts provided to the OCC project manager. If recycling is not possible, then approval must be obtained from the OCC's project manager for disposal.

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A.8 Recommended Project Installation Approach

In an effort to reduce delays in OCC's security system function and monitoring, the following installation steps are recommended for this project:

- 1. Contractor will initially start with the upgrade of the OCC SOC. This step will include installing a new security console and four 46" LED wall monitors. The 10 existing analog monitors mounted in the SE corner of the SOC are housed in a cabinet that is currently mounted to the existing security desk. Contractor will arrange for a temporary support for that cabinet while the existing security desk is removed and replaced with the new security console. The 10 analog monitors will continue to function normally until all OCC analog cameras are converted to digital. The four 46" HD LED wall monitors will be provided and mounted by the Contractor on floor mounts purchased from Winsted as part of the new security console.
- 2. In preparation for the SOC upgrade, OCC will remove the wall mounted cabinets at the NW corner and the floor cabinet on the east wall. OCC will raise the existing fire panel on the west wall by 11" so as to keep it visible above a desk monitor scheduled for that area. OCC will relocate facility system control panels on the west wall of the SOC as necessary. All other desktop equipment and computers will remain in-place until such time as OCC schedules the relocation of that desktop equipment. OCC to provide all computers and computer monitors.
- After the new security console has been installed and the four new video wall in the NW corner are functional, control for the single existing digital camera on the OnSSI VMS will be migrated to those new monitors.
- 4. Contractor will then commence the process of converting the existing analog cameras to digital. As that process continues, the rack mounted Kalatel DVRs and Matrix Switcher in the SOC will be replaced with rack mounted H.264 Video Encoders in the SOC equipment room. This approach should allow a minimum of cable rework during the conversion process.
- 5. Rough-in cabling for new cameras will commence at the discretion of the Contract on approval from the OCC Project Manager.
- 6. Unless an earlier date is approved by the OCC Project Manager, conversion of the Diamond II ACS will be the delayed until after the camera system upgrade has been completed. During the ACS conversion, it is recommended that the new ACS network communication controllers be assigned a different LAN IP address than the existing ACUs so as to allow the Diamond II ACS to continue to operate normally as its ACU panels are replaced. Since there are four Diamond II ACUs involved with each located in a different quadrant of OCC, it is recommended that the conversion of the ACS proceed in a 4-step process of converting one ACU panel and its related subpanels at a time before moving to the next ACU. This 4-step process must be carefully coordinated with the OCC designated technician that is tasked with ACU removal. This procedure will allow the Diamond II system to remain functional until the conversion of the final Diamond II ACU is completed.
- 7. Operational testing, staff training, and certification will be completed before system acceptance.

A.9 Additional Scope of Work Details

- ACS: If required OCC, will provide any ACS server computers that may be required (contractor to determine if necessary. The master ACS control and recording server/appliance software will be installed by the Contractor at OCC's NOC on the Ballroom Level. ACS system administrator clients will be installed on designated workstations provided by OCC.
- 2. One (1) ACS ID badge station software client with a new ID badge printer will be installed at "Guest Services Office" on OCC's Intermediate/MLK Lobby Level.



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- Contractor will provide an initial quantity of 1000 HID iCLASS SE Model 300 printable access control cards.
- 4. VMS: The existing OnSSI VMS Base server is installed at OCC's NOC on the Ballroom Level. The current Ocularis IS license will be upgraded to an Ocularis LS license. MERC will provide the video recording computer servers.
- All OCC Cameras will operate with an Ocularis LS camera license and will be recorded on the video servers provided by MERC. Contractor will provide the Ocularis software for the video recording servers.
- Currently a single digital camera operating on the OnSSI VMS is in use at the OCC SOC. This
 camera is currently operating on an Ocularis IS channel license. This license will be upgraded to
 a LS channel license.
- SOC: A new security console has been designed by Winsted (800.447.2257) for the OCC Security Operations Center. The design is registered under Winsted Quote <u>Q34318305 131218</u> OCC 2014
- 8. Network: The ACS and VMS will utilize a dedicated OCC/Metro LAN established by the OCC/Metro's Information Systems Dept. OCC has sufficient fiber optic cable linking its IDF rooms with its NOC. OCC/Metro will provide ACS and VMS LAN switches (Standard and PoE) as required, equipment racks, high voltage power circuits, and UPS power supplies as required.
- 9. Contractor provides any high-lift required for cabling, camera mounts, ACS controller replacement, etc. as may be required for this project.

SYSTEM SPECIFICATION AND FUNCTION

B.1 Video Management (VMS) Specifications and Functions

The following outlines OCC VMS requirements. OCC currently utilizes the OnSSI Ocularis VMS. All existing and new camera control will be migrated to the existing OnSSI Ocularis VMS. Camera specifications by locations are provided in Attachment B. New cameras included are NC1, NC2, NC3, NC4, NC5, NC6, NC7, NC8, NC10, NC11, NC13, NC14, NC15, NC16, NC17, NC18, NC19, NC20, NC21, NC22, NC23, NC24, NC25, NC26, NC27, NC28, NC29, NC30, NC31, NC32, NC33, NC34, NC35, NC26, NC37, NC38, and NC39.

Products

- The existing VMS system at OCC is an OnSSI Ocularis "IS" VMS. This VMS will be upgraded to the Ocularis "LS" Base server license. All cameras at OCC will operate under an Ocularis "LS" channel license. OnSSI offers a proven off-the-shelf API with most leading ACS. The OCC VMS system shall remain an OnSSI VMS System.
- 2. The Ocularis VMS will require an Ocularis compatible joystick controller with a camera selection feature. The OCC joystick controller shall be a VM Desktop USB Multifunction controller form CH Products (www.chproducts.com) Part Number 100-590.
- 3. The four (4) 46" LED Video Monitors required for the SOC will be provided by contractor. These monitors shall be 24/7 operation Sony FWD-46B2 LED monitors.
- 4. The VMS video recording servers will be provided by MERC.
- 5. As referenced in the OCC Camera Requirements Document for the specific location/application listed, new IP Network cameras shall be the following camera models.
 - a) Sony SNC-EP 550 with a 1MP 340° PTZ w/28x zoom with UNI WMB3 Low Profile Pendant Mount and UNI-INL7C2 enclosure.





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- b) Sony SNC-ER 550 with a 1MP 360° PTZ w/28x zoom. Pendant Mount and UNI-INL7C2 enclosure.
- c) Sonv SNC-EM602R 1.3MP dome with Infrared Illumination
- d) Sony SNC-EM632R 3MP dome with Infrared Illumination
- e) Sony SNC-VM631 3MP dome with ultra wide dynamic Visibility Enhancer
- f) Axis P3354 Wide Angle Day/Nigh 1MP Dome camera
- g) Axis M 3006 V 2mm Wide Angle Lens Dome
- 6. H.264 Video Encoders will be required to convert 64 analog cameras to digital. Since many of OCC's analog cameras are PTZ, the H.264 Encoders shall be a rack mounted in one (1) 1U and one (1) 3U Sony SNT EX Series Chassis's with sixteen (16) SNT-EX154/4CH Blade Enclosures offering H.264/MPEG4/JPEG. PTZ/AUDIO/ALARM with DEPA Advanced Intelligent Video.
- 7. Where existing coax video cable can be reutilized for IP cameras, a high speed Ethernet over Coax converter will be utilized. Converters will be Veracity High Wire.

General Requirements

- All new interior and exterior cameras shall be PoE IP Network Cameras.
- 2. All new cameras will be UL listed with the appropriate label on the camera body.
- 3. All new exterior cameras (should they be required) will have appropriate surge protection against lightning strikes.
- 4. All video equipment will be installed per manufacturer's specifications.
- 5. Where test standards exist, all materials and products furnished by the contractor for construction shall bear the label of the Underwriters Laboratories (UL). All material, products, and components furnished by the contractor shall be manufactured, assembled, installed, and tested in accordance with the current industry standards.
- All equipment and materials listed above shall be provided by the security contractor unless noted otherwise.
- Contractor will provide up to 4 hrs of VMS system user training for system administrators.

Quality Assurance

All installation, configuration and setup of software as well as related work hereto shall by carried out by qualified technicians thoroughly trained and certified by OnSSI for the level of VMS to be installed and serviced at OCC.

B.2 Access control (ACS) Specification and Function

This section outlines the specifications for the Access Control System and related equipment as referenced on the drawings. The following specifications are meant to provide a baseline of features that OCC will require.

Products

- The ACS system shall be a web-based system utilizing server appliances and Mercury
 controllers. The ACS must have an established API with the VMS. The ACS system shall be an
 S2 NETBOX Extreme S2-EXT-32-RM Controller System (with initial capacity for 32 card readers).
- Card Readers will be HID iClass SE (RP10, RP40, RPK40).
- 3. Card credentials will be HID iClass SE printable ISO cards, Model 300.
- 4. All ACS reader controllers will have a power supplies with a minimum of 1 hr of backup battery protection. Power supplies will be Altronix.



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- 5. All ACS reader controllers will have circuit surge protection.
- 6. The ACS Badge Station Printer shall be a dual sided ID ISO-30 badge printer. The ID Badge printer shall be a Magicard Rio Pro.
- 7. The ACS Badge Station ID Photo Camera shall be an 8 MP camera or better with Twain Driver TransTech Trans Cam Solo.
- 8. Contractor will provide up to 8 hrs of ACS system user training for system administrators and service personnel.

General Requirements

- ACS System Specifications for the system replacing the existing Diamond II ACS are found in Attachment E.
- Contractor will refer to security concept drawings provided on plan set at walkthrough for locations of current Diamond II card readers. All existing card reader locations will be controlled by the new ACS.
- 3. Contractor will refer to the Diamond II Panel Schedule in the Attachment C. All monitoring and control functions currently provided by the Diamond II ACS will be replicated by the new ACS.

Quality Assurance

All installation, configuration and setup of software as well as related work hereto shall by carried out by qualified technicians thoroughly trained and certified by the ACS Manufacturer for the level of ACS to be installed and serviced at OCC.

B.3 Security Operations Center (SOC) Specifications and Functions

The following outlines the equipment as referenced in the concept drawings. Refer to the equipment locations as referenced in the concept drawings.

Products

- The existing SOC security console will be replaced with a console designed by Winsted (800.447.2257) under Winsted Quote Q34318305 131218 OCC 2014
- 2. The OCC joystick controller for the SOC shall be a VM Desktop USB Multifunction controller form CH Products (www.chproducts.com) Part Number 100-590
- The 46" LCD Monitors for the SOC will be Sony FWD 46B2 HD LED Backlit Displays supplied by Contractor.

General Requirements

Contractor shall provide continuous coordination with OCC Security and minimize any delays and/or disruptions with the SOC during the construction period.

Quality Assurance

Contractor shall ensure that the new console and wall mounted display monitors are installed as per manufacturer's recommendations.

SYSTEM ACCEPTANCE AND ADDITIONAL CONDITIONS

The purpose of this section is to provide the Contractor with information regarding the system acceptance process and requirements.

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C.1 Performance, Testing, and Material Standards

Applicable code and standards bodies to be considered at a minimum.

- The American National Standards Institute (ANSI)
- ii) The Institute of Electrical and Electronic Engineers (IEEE)
- iii) The National Electrical Code (NEC)
- iv) Any Local Electrical Code(s).
- v) The American Disabilities Act (ADA).
- vi) Where other local standards supersede the aforementioned group. The contractor shall submit in writing the applicable standard replaced, and the new standard used.

C.2 Acceptance Process

The Contractor shall demonstrate that installation fulfills all requirements of the contract documents.

C.3 Design Changes and Substitutions

Design changes proposed by Contractor that affect the technical, dimensional, performance, or other requirements included in the drawings or plans initially approved by MERC shall not be made by Contractor without the prior written authorization of the MERC.

C.4 Rights to Documentation

All tangible materials delivered to MERC in connection with the work, including without limitation all drawings, schematics, flow charts, and other documentation prepared for MERC pursuant to this contract, shall belong to MERC. MERC reserves the right to reproduce and use any and all drawings, prints, or other data received from the Contractor which are considered necessary for engineering, operations, maintenance, or other MERC internal purposes related to the work despite any notice to the contrary appearing on the documents.

3. **Deliverables/Outcomes**

- Work shall reach substantial completion by April 30, 2015
- Integrated VMS and ACS security system
- **New Security Operations Center**
- Conversion of 73 existing cameras to digital signal, per plans and specs.
- Furnish and installation of 37 new PoE cameras per plans and specs

Note: All can	neras replace		ital will require an OnSSI	"LS" chann	el license	with "Cu	rrent" pro-rated to 2/7/2015					
Drawing #	Service Camera	EXISTING Camera #	Location	Camera Type	Resolution	Mount	Remarks including FOV, IR, Mounting Heights, etc.	Placement Photo	To IDF#	Add Cam	Camera Action	New Cable
EXHIBIT LEVEL ES2.0	SC 1	1	Kitchen Corridor S	Fixed	Analog	Wall Mt	InopReplace w Sony SNC EM632R 3MP dome with IR	click	IDF 2		REPLACE	New Cat 6 50 ft
EXHIBIT LEVEL		2				vvaii ivit	done with it	CHCK	IDF 2		KEFEACE	3010
ES2.0 EXHIBIT LEVEL		3	Kitchen Corridor N	Fixed	Analog							
ES2.0 EXHIBIT LEVEL			Pre-function C	PTZ	Analog							
ES2.0 EXHIBIT LEVEL		4	Pre-function A Aramark Exterior Loading North	PTZ	Analog							
ES2.0		5	Dock Dock	PTZ	Analog					FALSE		
BALLROOM LEVEL ES 4.0	SC 2	6	Hall C	PTZ	Analog		Lens is blurred. Focus		•		CLEAN	
BALLROOM LEVEL ES 4.0		7	Hall C1	PTZ	Analog							
BALLROOM LEVEL ES 4.0		8	Exhibit Hall B	PTZ	Analog				_			
BALLROOM LEVEL		9							_			
ES 4.0 BALLROOM LEVEL		10	Hall A1	PTZ	Analog							
ES 4.0 EXHIBIT LEVEL			Hall A1 Operations Exit in Corridor	PTZ	Analog							
ES2.0 EXHIBIT LEVEL	SC 3	11	between A1 & Loading Dock	Fixed	Analog		blurred. Needs to be focused		0		FOCUS	
ES2.0		12	Exhibit B Loading Dock	PTZ	Analog				-			
BALLROOM LEVEL ES 4.0		13	1st Street & Oregon External	PTZ	Analog							
EXHIBIT LEVEL ES2.0		14	Loading Dock Service corridor behind D&E	fixed	Analog							
EXHIBIT LEVEL		15	W Loading Dock South	PTZ	Analog							
EXHIBIT LEVEL		16							-			
ES2.0 BALLROOM LEVEL	SC 4	17	W side fixed look I-5	Fixed	Analog				0			
ES 4.0 BALLROOM LEVEL			Exterior Ballroom North Plaza	PTZ	Analog		Relocate PTZ to view outer walkway R&R PTZ w Sony SNC SNC VM631 3MP				REPOSITION	Use Existing Coax
ES 4.0	SC 5	18	MLK Lobby N	Fixed	3МР	Wall Mt	dome WDR	<u>click</u>	IDF 5		REPLACE	w/Highwire
BALLROOM LEVEL ES 4.0		19	Oregon Ballroom Lobby South	Fixed	Analog				-			
BALLROOM LEVEL ES 4.0		20	Oregon Ballroom Lobby North	Fixed	Analog				_			
BALLROOM LEVEL ES 4.0	SC-6	21	Holliday N Lobby	Fixed	Analog		Re point to view escalators		0		REPOSITION	
BALLROOM LEVEL ES 4.0		22	Bldg Exterior NW Corner 1st & Holliday	PTZ	Analog							
BALLROOM LEVEL		23	Bldg Exterior North Holliday Plaza						-			
ES 4.0 EXHIBIT LEVEL		24	Bell SW Corner Lobby looking at S	PTZ	Analog							
ES2.0 EXHIBIT LEVEL			Parking Management Room D Service	PTZ	Analog							
ES2.0 EXHIBIT LEVEL		25	Corridor	Fixed	Analog				-			
ES2.0	SC 7	26	Service Corridor Cocina Restaurant	Fixed	Analog		Raise up lens for better view		0		REPOSITION	
EXHIBIT LEVEL ES2.0	SC 8	27	Management Room B & C Service Corridor	Fixed	Analog	Wall Mt	Replace w Sony SNC EM632R 3MP dome with IR	click	IDF 2		REPLACE	New CAT 6 60ft
EXHIBIT LEVEL ES2.0	SC 9	28	Management Room A& B Service corridor	Fixed	Analog	Wall Mt	Replace w Sony SNC EM632R 3MP dome with IR	<u>click</u>	IDF 4		REPLACE	New CAT 6 60ft
P1 & P2 Parking Level ES1.0	SC 10	29	P2 south elevator lobby	Fixed	Analog		Reposition or may need wider lens		•		REPOSITION	
P1 & P2 Parking Level ES1.0		30					, and the may need that lend				ALI CONTON	
P1 & P2 Parking	SC 11	31	P1 South Elevator Lobby	Fixed	Analog				2			
Level ES1.0 P1 & P2 Parking	30 11		P1 East Elevator Lobby	Fixed	Analog		Reposition or may need wider Lens				REPOSITION	
Level ES1.0 EXHIBIT LEVEL		32	P2 East Elevator Lobby	Fixed	Analog		Video but no PTZ control Repair or					
ES2.0	SC 12	33	Ginko Lobby South	PTZ	Analog		replace with PTZ #18 MLK Lobby		•		REPAIR	NowCATC
EXHIBIT LEVEL ES2.0	SC 13	34	F Lobby near meeting rooms F on SE corner	Fixed	Analog	Wall Mt	InopReplace w Sony SNC EM632R 3MP dome with IR	click	IDF B1		REPLACE	New CAT 6 80ft
EXHIBIT LEVEL ES2.0		35	F Lobby near meeting rooms F on SE corner	Fixed	Analog				_			
EXHIBIT LEVEL ES2.0		36	Mgt Room D corridor Elevator 15	Fixed	Analog							
EXHIBIT LEVEL		37										
ES2.0 EXHIBIT LEVEL		38	Mgt Room D& E Service Corridor	Fixed	Analog				-			
ES2.0 EXHIBIT LEVEL			Mgt Room C Service Corridor	Fixed	Analog							
ES2.0		39	Mgt Room A Service Corridor	Fixed	Analog				_			

rawing #	Service Camera	EXISTING	Location	Camera Type	Resolution	Mount	Remarks including FOV, IR, Mounting Heights, etc.	Placement Photo	To IDF#	Add Cam	Camera Action	New Cable
HIBIT LEVEL		Camera #	1st floor Elevator # 13 & 14 at	Camera Type	Resolution	Wount	Heights, etc.	Photo	10 IDF#	Cam	Camera Action	New Cable
2.0		40	Ginko Lobby	Fixed	Analog				Ц			
. & P2 Parking vel ES1.0		41	P1 Entry on South side	PTZ	Analog				_			
L & P2 Parking evel ES1.0		42	P1 Entry on South side	Fixed	Analog							
1 & P2 Parking		43			Analog				-			
evel ES1.0 1 & P2 Parking			P1 Stairway	Fixed	Analog							
evel ES1.0		44	P2 Entrance	PTZ	Analog							
1 & P2 Parking evel ES1.0		45	P2 Entrance	Fixed	Analog				_			
1 & P2 Parking		46										
evel ES1.0 ALLROOM LEVEL			P2 man door entry Bldg Exterior West Loading Dock	Fixed	Analog				_			
5 4.0		47	South	PTZ	Analog							
CHIBIT LEVEL 52.0		48	Hall E Service Corridor	Fixed	Analog		This camera is now mounted near ceiling cable tray viewing the exit		_			
KHIBIT LEVEL		49	Loading Dock interior North side of						_			
S2.0 ALLROOM LEVEL	SC 14	50	old docks	PTZ	Analog				•			
ALLROOM LEVEL	SC 14		Hall E SW City View Elevator 18 in service	PTZ	Analog		Reposition Camera				REPOSITION	
5 4.0		51	corridor North at Ginko	Fixed	Analog							
ALLROOM LEVEL	SC 15	52	Service Corridor South of Hall E	Fixed	Analog		Adjust camera slightly 10 degrees left.		•		REPOSITION	
ALLROOM LEVEL	SC 16	53					R&R w/SNC-EP550, 1MP 340° PTZ		2			Use Existing Co
S 4.0 KHIBIT LEVEL	56 10		MLK Lobby S Exhibitors' entrance by Security	PTZ	Analog	Ceiling Mt	w/28x, UNI WMB3 & UNI-INL7C2	click	IDF 5		REPLACE	w/Highwire
52.0		54	Office	Fixed	Analog							
CHIBIT LEVEL 52.0		55	Inside Security Office Lobby	Fixed	Analog				_			
ALLROOM LEVEL		56	-									
S 4.0 ALLROOM LEVEL	SC 17	57	Hall D1 west NW	PTZ	Analog				•			
S 4.0	SC 17		West Loading Dock	PTZ	Analog		Needs cleaning				CLEAN	
ALLROOM LEVEL S 4.0		58	Exhibit Hall D	PTZ	Analog							
ALLROOM LEVEL S 4.0	SC 18	59	North Side of Ginko Lobby	PTZ	Analog		Lower 1 or 2". Some blooming. Reposition to Ballroom entries		☑		REPOSITION	
ntermediate level	SC 19	60					Replace with Sony SNC EM602R 1.3MP					Use Existing Co
S3.0 ALLROOM LEVEL			Money Room	Fixed	Analog	Ceiling Mt	dome with IR		IDF 5		REPLACE	w/Highwire
S 4.0		61	Portland Ballroom Lobby near 251	PTZ	Analog							
ALLROOM LEVEL S 4.0	SC 20	62	Portland Ballroom Lobby	Fixed	Analog		Reposition Camera		□		REPOSITION	
ALLROOM LEVEL 5 4.0		63	Portland Ballroom Corridor South	Fixed								
ALLROOM LEVEL		64	Portland Ballroom Corridor South	Fixed	Analog				-			
S 4.0 ALLROOM LEVEL			Bldg Exterior MLK Portland				No camera. This camera was removed				No Action	
5 4.0		65	Ballroom East	PTZ	Analog							
ALLROOM LEVEL S 4.0		66	Bldg Exterior MLK & Lloyd	PTZ	Analog				_			
ALLROOM LEVEL		67	Bldg Exterior South over P1									
S 4.0 ALLROOM LEVEL			Entrance	PTZ	Analog		Out of Focus, some blurry, some					
5 4.0	SC 21	68	Inside Holliday North Lobby	PTZ	Analog		blooming		•			
CHIBIT LEVEL 52.0	SC 22	69	Inside Aramark Shipping & Receiving North Loading Dock.	Fixed	Analog		Remove Existing Camera 69		Ø		REMOVE	
CHIBIT LEVEL	SC 23	70	Inside North Loading Dock.			Wall Mt	Replace & relocate w/Sony SNC EM632R 3MP dome w IR		IDF 5		REPLACE	CAT 6 6
ALLROOM LEVEL		71	Portland Ballroom Lobby Elevator	Fixed	Analog	Wall IVIT	Sivir dome wilk	click	IDF 5		REPLACE	CATO 6
4.0 ALLROOM LEVEL			16 & 17	Fixed	Analog		Camera is bit tilted.					
ALLROOM LEVEL 5 4.0		72	Business Ctr	Fixed	Analog							
1 & P2 Parking evel ES1.0		73	P2 Parking Office	Fixed	Analog							
ALLROOM LEVEL		74										
4.0 ALLROOM LEVEL		74	King Lobby Ticket Office	Fixed	Analog		Provide LS Camera License with					
4.0	SC 24	75	Network Cam to OCC Plaza	PTZ	Digital		"Current" Pro-Rated to 2/7/2015		0		Add ONSSI License	

New Cameras to be added to VMS system are listed below

IDF C1

IDF 2

IDF 10

IDF 2

MLK Electronic Sign--1st camera

MLK Electronic Sign--2nd camera

Holladay Electronic Sign. Views

Holladay Electronic Sign. Views

Oregon Ballroom Lobby near

Pregon Ballroom South Entrance Fixed

west to Holladay entry

east to MLK Blvd.

North Round

nside Admin Office

NC 27

NC 29

NC 33

BALLROOM LEVEL

ALLROOM LEVEL

S 4.0

Drawing	New Camera Additions	From IDF	Location	Camera Type	Resolution	Mount	Camera Recommendation	Placement Photo		Add Cam	Optional Camera #	Cameras Added	Cabling Comments	Approx CAT 6 Cable Distance
XHIBIT LEVEL		IDF-E1					Sony SNC-EP 550 1MP 340° PTZ w/28x,		121					70'
52.0	NC 1	IDI -CI	Inside Loading Dock at D	PTZ	1MP	Ceiling Mt	UNI WMB3 & UNI-INL7C2 enclosure.	<u>click</u>				1	IDF E1 routed thru cable tray; mount on cable tray support or pipe rack for easiest access	70
HIBIT LEVEL		IDF-5	AramarkAdd camera to above				Sony SNC EM602R 1.3MP dome with		0					50'
2.0	NC 2	15. 5	dock entry door	Fixed	1.3MP	Wall Mt	Infrared Illumination	<u>click</u>			Option #1	1	IDF 5 to Camera. Short run	30
HIBIT LEVEL		IDF-5	Aramark-Add camera to N Dock in				Sony SNC EM632R 3MP dome with		2					50'
52.0	NC 3		Trash Compactor	Fixed	3MP	Wall Mt	Infrared Illumination	#REF!			Option #2	1	IDF 5 to Camera. Short run	
HIBIT LEVEL		iDF-4	Aramark Add cam to Entry to				Sony SNC EM632R 3MP dome with		2					40'
2.0	NC4		Money Rm	Fixed	3MP	Wall Mt	Infrared Illumination	#REF!			Option #3	1	IDF 4 to Camera. Down hall & into Money Room	
CHIBIT LEVEL 52.0	NC 5	IDF-4	AramarkKitchen Corridor at		3MP		Sony SNC EM632R 3MP dome with		2				1054. G	30
	NC 5		North Stairway Exit	Fixed	SIVIP	Wall Mt	Infrared Illumination	<u>click</u>			Option #4	1	IDF 4 to Camera . Down Hallway	0.14
HIBIT LEVEL 2.0	NC 6	IDF 4			3MP		Sony SNC EM632R 3MP dome with Infrared Illumination		2				IDF 4, difficult long run thru A/B meeting rooms. Opt 1: route straight across A103-104, svc	Opt 1:
HIBIT LEVEL	NC 6		Pre-Function A to view Escalators	Fixed	SIVIP	Ceiling Mt	Sony SNC EM602R 1.3MP dome with	<u>click</u>				1	corr., & A105. Opt 2: pipe to AB svc corridor & down corridor to cable tray. Repeater?	Opt 2:
S2.0	NC 7	IDF 4	Aramark at Kitchen Storeroom at Rollup	Fixed	1.3MP	Wall Mt	Infrared Illumination	-tr-t-	2		Option #5	1	IDF 4 to Camera. Down Hallway	40
	NC 7				1.3IVIP	Wall IVIL	Sony SNC EM632R 3MP dome with	<u>click</u>			Option #5	1	IDF 4 to Camera. Down Hallway	+
2.0	NC 8	IDF 4	Aramark Corridor to Mtng Rms A-B C at A&B	Fixed	3MP	Ceiling Mt	Infrared Illumination	click	•		Option #6	1	IDF 4 to Camera. Down hallway	110
2.0	INC 0		C at A&B	rixeu	SIVIE	Cennig ivit	Illitated illullilliation	CIICK			Орион же	1	ibr 4 to Camera. Down Hallway	
KHIBIT LEVEL			Aramark-South Wall west side to				Sony SNC EM602R 1.3MP dome with							
2.0	NC 10	IDF 2	View Kitchen	Fixed	1.3MP	Wall Mt	Infrared Illumination	click	•		Option #8	1	IDF2 to Camera. Down hall & into kitchen	170
HIBIT LEVEL	140 10		Aramark-Kitchen South ceiling at	Tixeu	1.51411	vvaii ivit	Sony SNC EM602R 1.3MP dome with	CIICK			Оршон жо		IDI 2 to Camera. Down han & into kitchen	
52.0	NC 11	IDF 2	cooler	Fixed	1.3MP	Wall Mt	Infrared Illumination	click	0		Option #9	1	IDF2 to Camera, Down hall & into kitchen	180
12.0	INCII		COOIEI	TIXEU	1.31411	vvaii ivit	Illiated Illumination	CIICK			Орион #3	-	1012 to Camera. Down han & into kitchen	
CHIBIT LEVEL			Aramark-Add camera to view				Sony SNC EM602R 1.3MP dome with							
52.0	NC 13	IDF 2	restroom corridor	Fixed	1.3MP	Wall Mt	Infrared Illumination	click	2		Option #11	1	IDF2 to Camera. Down hall & into kitchen	180
CHIBIT LEVEL			Aramark-Add camera to south				Sony SNC EM632R 3MP dome with							
52.0	NC 14	IDF 2	wall. View Dishwash	Fixed	3МР	Ceiling Mt	Infrared Illumination	click	•		Option #12	1	IDF2 to Camera. Down hall & into Dish room	55
KHIBIT LEVEL			Aramark-Add camera near closet				Sony SNC EM632R 3MP dome with							
52.0	NC 15	IDF 2	viewing Prep Area	Fixed	3МР	Ceiling Mt	Infrared Illumination	click	•		Option #13	1	IDF2 to Camera in hallway	40
KHIBIT LEVEL							Sony SNC EM632R 3MP dome with						IDF 2, difficult long run thru B/C meeting rooms. Opt 1: route straight across C126-125, svc	Opt 1:
52.0	NC 16	IDF 2	Pre-Function C to view escalators	Fixed	3МР	Ceiling Mt	Infrared Illumination	click	•			1	corr., & C124. Opt 2: pipe to BC svc corridor & down corridor to cable tray. Repeater?	Opt 2:
KHIBIT LEVEL			East Side C-D Service Corridor				Sony SNC EM602R 1.3MP dome with							
52.0	NC 17	IDF C1	Center	Fixed	1.3MP	Ceiling Mt	Infrared Illumination	click	•			1	C1, route to cable tray	90
KHIBIT LEVEL							Sony SNC VM631 3MP dome with ultra							
2.0	NC 18	IDF B1	Ginko Lobby	Fixed	3МР	Ceiling Mt	wide dynamic	click	☑			1	B1, run in cable tray	20
KHIBIT LEVEL			Aramark-Add Camera to view				Sony SNC EM602R 1.3MP dome with							
52.0	NC 19	IDF A1	Coffee Prep Station	Fixed	1.3MP	Ceiling Mt	Infrared Illumination	click	•		Option #14	1	IDF A1 to camera. Down hallway to Coffee Prep	60
(HIBIT LEVEL			·				Sony SNC EM602R 1.3MP dome with		2					
52.0	NC 20	IDF B1	New Cam to view D&E Entrances	Fixed	1.3MP	Wall Mt	Infrared Illumination	click	121			1	B1, run in cable tray. Repeater needed?	32
KHIBIT LEVEL		IDE D1					Sony SNC EM602R 1.3MP dome with		2				D1, new conduit to service corridor to cable tray; surface mount on wall above door to avoid	25
2.0	NC 21	IDF D1	Public Corridor (South of Exhibit E)	Fixed	1.3MP	Ceiling Mt	Infrared Illumination	click	- 12			1	hard ceiling in public corridor	250
termediate level		IDE 4							2				Opt. 1: IDF 1, existing conduits in Guest Sacs. Lobby. Opt. 2: IDF C1-follow existing station	Opt 1:
3.0	NC 22	IDF 1	Guest Services	Fixed	1MP	Ceiling Mt	Axis P3354 Indoor 1MP Dome camera	<u>click</u>	- 12			1	wiring to cable tray below.	Opt. 2:
termediate level		IDF 7	Aramark Add discreet Camera to						2					30
33.0	NC 23	IDF 7	STIX storeroom	Fixed	1MP	Wall Mt	AXIS M3006-V Wide Angle Lens 1 MP	<u>click</u>			Option #15	1	IDF 7 to camera. Very short run inside same area	30
ALLROOM LEVEL		IDF G3	Portland Ballroom Public Corridor				Sony SNC EM602R 1.3MP dome with		2				Opt. 1: G3 move camera to lobby side, facing toward svc corr. Pipe across lobby ceiling up	Opt 1:
4.0	NC 24	IDF G5	South at Exit	Fixed	1.3MP	Wall Mt	Infrared Illumination	<u>click</u>				1	into void & around to IDF. Opt 2: D1 penetrate floor into corridor below & join run for NC21.	. Opt 2
ALLROOM LEVEL		IDF F3	Aramark-cam in Plating kitchen to				Sony SNC EM602R 1.3MP dome with		2					18
4.0	NC 25	IDF F3	view elevator	Fixed	1.3MP	Wall Mt	Infrared Illumination	<u>click</u>			Option #16	1	IDF F3, run thru vacant space, or pipe across lobby into the side of IDF right above the stairs.	. 18
4.0														
LROOM LEVEL		IDF F3	Portland Ballroom Public Corridor				Sony SNC EM602R 1.3MP dome with		2				IDF F3, run thru vacant space, or pipe across lobby into the side of IDF right above the stairs.	18

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2

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click

Sony SNC EM602R 1.3MP dome with

Sony SNC EM632R 3MP dome with

Sony SNC VM631 3MP dome with ultra

Sony SNC VM631 3MP dome with ultra

Sony SNC VM631 3MP dome with ultra

Infrared Illumination

Ceiling Mt wide dynamic

Opt 1: 130'

Opt 2: 110'

160'

200'

200'

IDF F3, run thru vacant space, or pipe across lobby into the side of IDF right above the stairs. IDF C1 Opt 1: route thru ceiling to conduit down to cable tray Opt 2: open wall behind

Opt. 1: IDF 10 through ballroom and/or stairwell & down svc corr. Opt. 2: IDF 04: place

Opt. 1: IDF 9 through ballroom and/or stairwell & down svc corr. Opt. 2: IDF 02: place

eceptionist & penetrate floor down to svc corridor, then to cable tray

IDF 10, across lobby down corridor

camera at rotunda kiosk & use existing path

camera at rotunda kiosk & use existing path

OCC Security Camera Requirements: New & Optional Cameras to Added

New Cameras to be added to VMS system are listed below

Note: All New cameras added will require an OnSSI "LS" channel license with "Current" pro-rated to 2/7/2015

NOTE. All NEV	cumerus uu	ucu wiii ic	quire un onssi Es chui	mei neense	with cui	ment pro	7-14teu to 2/1/2013							
	New Camera							Placement		Add				Approx CAT 6
Drawing	Additions	From IDF	Location	Camera Type	Resolution	Mount	Camera Recommendation	Photo		Cam	Optional Camera #	Cameras Added	Cabling Comments	Cable Distance
BALLROOM LEVEL		IDF 9	Oregon Ballroom Lobby near East				Sony SNC VM631 3MP dome with ultra		121					1601
ES 4.0	NC 35	101 3	Round	Fixed	3MP	Ceiling Mt	wide dynamic	<u>click</u>	_			1	IDF 9, across lobby down corridor	100
BALLROOM LEVEL		IDF 1	MLK Lobby to view lobby from				Sony SNC VM631 3MP dome with ultra						IDF 1, existing conduits in Guest Svcs. Lobby ??, OR vertical through VIC area - pipe through	100'-150'
ES 4.0	NC 36	IDF 1	above elevators	Fixed	3MP	Wall Mt	wide dynamic	<u>click</u>				1	existing floor holes poured for HVAC & sprinklers	100 -150
BALLROOM LEVEL		IDF 3					Sony SNC EM602R 1.3MP dome with		п					90'
ES 4.0	NC 37	IDF 3	Relocated at VIP Suite B	Fixed	1.3MP	Wall Mt	Infrared Illumination	<u>click</u>	-			0	IDF 3 - Pipe into corridor & out to Hall B AV balcony; straight down to IDF	80
BALLROOM LEVEL		IDF 3					Sony SNC EM602R 1.3MP dome with		171					150'
ES 4.0	NC 38	IDF 3	Relocated at VIP Suite B	Fixed	1.3MP	Wall Mt	Infrared Illumination	<u>click</u>				1	IDF 3, run thru VIP B ceiling & join run for NC37	150
BALLROOM LEVEL		IDF 5	Holliday N Lobby to view lobby				Sony SNC VM631 3MP dome with ultra		- 51					100'
ES 4.0	NC 39	IDF 3	from above elevators	Fixed	3MP	Wall Mt	wide dynamic	click				1	IDF 5, thru mech space, vertical through Show Mgr office/pacificwild storage area	100

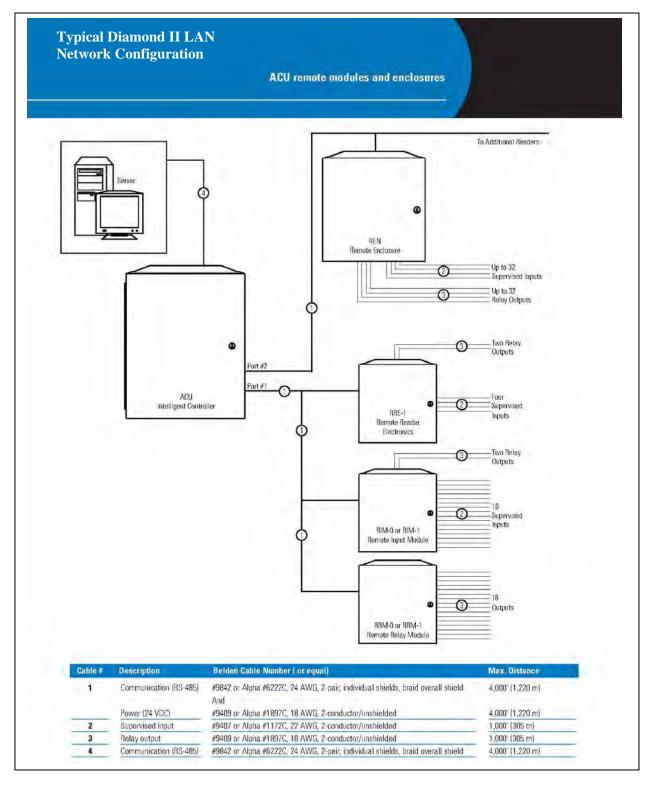
Note #1: Sony Gen 5 camera models are changed to their Gen 6 equivalent (SNC-DH160 to SNC-EM602R, SNC-DH260 to SNC-EM632R, SNC-DH240T to SNC-VM631)

Note #2: Sony PTZ Gen 5 models and Axis dome cameras may be upgraded by change order.

Note #3: Where provided, Column "I" provides a "click function" to view a "camera placement photo" in Sheet 2. After viewing photo, select Sheet 1 in the lower left of Sheet 2 to return to Sheet 1.

OCC's Existing Infographics Diamond II Access Control Panel Configuration

The purpose of the following ACU schedules & Network Diagram is to provide bidders will an overview of the existing OCC ACS panels, inputs & outputs, and card readers it controls for purposes of replication by a replacement ACS.



At OCC, there are a total 4 ACU's, 14 RIMs, 16 RREs, and 2 RRMs. Two of the RREs are installed next to the ACU-0 at the P2 Parking office, and the rest of the RIMs, RREs, & RRMs are installed near the doors they control or monitor. Each has a number of inputs, outputs, & relays detailed in the Diamond II Panel Schedule provided with this RFP. For purposes of the RFP, bidders will assume the existing ACS cabling & enclosures are reusable.

Diamond II ACU #0

ACU-0 is located in the P2 Parking Office

CONTROL	LER PANEL SCHEDULE	ACU # 0	
PANEL LO	OCATION:		
	PARKING LEVEL 2071		
	INPUTS	START	# 1
	INFOIS	START	π 1
ACU	ACU INPUT		
INPUT #	LOCATION	POINT #	POINT NAME
1	ACU SUPERVISED INPUT #1	1	P2 ENTRY ROLL UP DC
2	ACU SUPERVISED INPUT #2	2	P2 ENTRY ROLL UP DC
3	ACU SUPERVISED INPUT #3	3	P-1074
4	ACU SUPERVISED INPUT #4	4	P-1073
5	ACU SUPERVISED INPUT #5	5	P-1000.3
6	ACU SUPERVISED INPUT #6	6	P-1000.2
7	ACU SUPERVISED INPUT #7	7	P-1000.1
8	ACU SUPERVISED INPUT #8	8	P-1003
9	ACU SUPERVISED INPUT #9	9	P-1002
10	ACU SUPERVISED INPUT #10	10	NOT USED
11	ACU SUPERVISED INPUT #11	11	NOT USED
12	ACU SUPERVISED INPUT #12	12	NOT USED
13	ACU SUPERVISED INPUT #13	13	NOT USED
14	ACU SUPERVISED INPUT #14	14	NOT USED
15	ACU SUPERVISED INPUT #15	15	NOT USED
16	ACU SUPERVISED INPUT #16	16	NOT USED
	CARD READERS	START	# 0
PORT#	RRE READER	READER	Doop water
RRE#	LOCATION	NUMBER	DOOR NAME
P2 RRE0	PARKING LEVEL 2 WEST	0	P2051
P2 RRE 1	PARKING LEVEL 2 WEST	1	P2073
P2 RRE2	PARKING LEVEL 2 WEST	2	P-2 ENTRY
P2 RRE3	PARKING LEVEL 2 WEST PARKING LEVEL 2 EAST	3 4	P-1 ENTRY
P1 RRE0	PARKING LEVEL 2 EAST	5	P-2100 P-2030
P1 RRE1	PARKING LEVEL 2 EAST	6	P-1040
P1 RRE2	PARKING LEVEL 1 EAST	7	P-1140
FIRKES	PARNING LEVEL I EAST	/	r-11 4 0

Diamond II ACU #1

ACU-1 is located in IDF E1

OCATION: T-1741 INPUTS ACU INPUT LOCATION ACU SUPERVISED INPUT #1	START #	1
INPUTS ACU INPUT LOCATION		1
ACU INPUT LOCATION		1
ACU INPUT LOCATION		
LOCATION	POINT #	
LOCATION	POINT #	
		POINT NAME
	1	NOT USED
ACU SUPERVISED INPUT #2	2	NOT USED
ACU SUPERVISED INPUT #3	3	NOT USED
ACU SUPERVISED INPUT #4	4	NOT USED
ACU SUPERVISED INPUT #5	5	NOT USED
ACU SUPERVISED INPUT #6	6	NOT USED
		NOT USED
		NOT USED
		NOT USED
,		NOT USED
		NOT USED
7.00 001 21(1)022 1111 01 1/10		1101 0025
CARD BEADERS	CTADT#	0
CARD READERS	START#	
DDE DEADED	DEADED	
		DOOR NAME
		1760
		1761
		1788
IVIAIN LE VEL SW		1700
 		
+		
-		
+		
DIM INDUT MODULE	DIM I/O	
		INDUT NAME
		INPUT NAME
IVIAIN LEVEL SVV 1741		1781 1782
		1783
		1784
		1785
		1786
		1787
+	9	CD1
 	10	CD3
	10	
	1 11	CD4
		CDF
	12	CD5
	12 13	CD5 CD6
	12 13 14	
	12 13 14 15	
	12 13 14 15 16	
	12 13 14 15	
**************************	ACU SUPERVISED INPUT #7 ACU SUPERVISED INPUT #8 ACU SUPERVISED INPUT #9 ACU SUPERVISED INPUT #10 ACU SUPERVISED INPUT #11 ACU SUPERVISED INPUT #11 ACU SUPERVISED INPUT #13 ACU SUPERVISED INPUT #14 ACU SUPERVISED INPUT #15 ACU SUPERVISED INPUT #16 CARD READERS RRE READER LOCATION MAIN LEVEL SW	ACU SUPERVISED INPUT #8 ACU SUPERVISED INPUT #9 ACU SUPERVISED INPUT #10 ACU SUPERVISED INPUT #11 ACU SUPERVISED INPUT #11 ACU SUPERVISED INPUT #12 ACU SUPERVISED INPUT #13 ACU SUPERVISED INPUT #14 ACU SUPERVISED INPUT #15 ACU SUPERVISED INPUT #16 CARD READERS START # RRE READER LOCATION MAIN LEVEL SW MAIN LEVEL SW MAIN LEVEL SW 1 RIM INPUT MODULE RIM I/O NUMBER

Diamond II ACU #1 Continued

PORT#	RIM INPUT MODULE	RIM I/O	
RIM#	LOCATION		INPUT NAME
	MAIN LEVEL SW 1660	1	1642
1 1 1 1 1 1 1 1 1	1000	2	1641
		3	1640
		4	CD14
		5	CD12
		6	CD11
		7	CD10
		8	CD9
		9	CD8
		10	CD7
		11	1711
		12	1821
		13	1822
		14	
		15	
		16	
		RIM OUTPUT 1	
		RIM OUTPUT 2	
PORT#	RIM INPUT MODULE	RIM INPUT	
RIM#	LOCATION		INPUT NAME
P1 RIM 6	UPPER LEVEL SW IA2.23	1	3900
1 1 1 1 1 1 1 1 1		2	3931
		3	
		4	
	1	5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	Posse LOGIC QUITDUT
		RIM OUTPUT 1	3900 LOCK OUTPUT 3931 LOCK OUTPUT
		RIW OUTPUT 2	3931 LOCK OUTPUT
PORT#	RRM OUTPUT MODULE	RRM OUTPUT	
RRM#	LOCATION	NUMBER	OUTPUT NAME
P2 RRM 4	MAIN LEVEL SW CD 1-6	1	CD 1
		2	CD 1
		3	CD 2
		4	CD 2
		5	CD 3
		6	CD 3
		7	CD 4
	ļ	8	CD 4
		9	CD 5
			CD 5
	1	11 12	CD 6 CD 6
		12	
		14	
		15	<u> </u>
		16	
		10	
	1		<u> </u>

Diamond II ACU #1 Continued

PORT#	RRM OUTPUT MODULE	RRM OUTPUT	
RRM#	LOCATION	NUMBER	OUTPUT NAME
P2 RRM 5	MAIN LEVEL SW CD 7-12	1	CD 7
		2	CD 7
		3	CD 8
		4	CD 8
			CD 9
		6	CD 9
		7	CD 10
			CD 10
		9	CD 11
		10	CD 11
		11	CD 12
		12	CD 12
		13	
		14	
		15	
		16	

Diamond II ACU #2

ACU-2 is located in IDF C1

CONTROL	LER PANEL SCHEDULE	ACU # 2	
PANEL LC	CATION:		
	T-1852		
	1 1002		
	<u>INPUTS</u>	START#	1
ACU	ACU INPUT		
INPUT #	LOCATION	POINT #	POINT NAME
1	ACU SUPERVISED INPUT #1	1	3640 DA
2	ACU SUPERVISED INPUT #2	2	NOTUSED
3	ACU SUPERVISED INPUT #3	3	NOT USED
4	ACU SUPERVISED INPUT #4	4	NOTUSED
5	ACU SUPERVISED INPUT #5	5	NOT USED
6	ACU SUPERVISED INPUT #6	6	NOTUSED
7	ACU SUPERVISED INPUT #7		NOTUSED
8	ACU SUPERVISED INPUT #8	8	NOTUSED
9	ACU SUPERVISED INPUT #9	9	NOT USED
10	ACU SUPERVISED INPUT #10	10	NOT USED
11	ACU SUPERVISED INPUT #11	11	NOT USED
12	ACU SUPERVISED INPUT #12	12	NOT USED
13	ACU SUPERVISED INPUT #13	13	NOT USED
14	ACU SUPERVISED INPUT #14	14	NOT USED
15	ACU SUPERVISED INPUT #15	15	NOT USED
16	ACU SUPERVISED INPUT #16	16	NOT USED
	0.455.5545550	07407#	
	CARD READERS	START#	U
PORT#	RRE READER	READER	
RRE#	LOCATION	NUMBER	DOOR NAME
P1 RRE0	MAIN LEVEL SE	0	1003 CONTROLS DOOR 1000-1002
		1	
		2	
		3	
		4	
		5	
		6	
		7	

Diamond II ACU #2 Continued

PORT#	RIM INPUT MODULE	RIM I/O	
RIM#	LOCATION	NUMBER	INPUT NAME
	MAIN LEVEL SE T1181	1	1029-1031
		2	1032-1034
		3	1035-1037
		4	1038-1040
		5	1430
		6	1440
		7	
		8	
		9	
		10	
		11	
		12 13	
		13	
		15	
		16	
		10	
PORT#	RIM INPUT MODULE	RIM I/O	
RIM#	LOCATION	NUMBER	INPUT NAME
P1 RIM 5	MAIN LEVEL SE T1220	1	1000
		2	1001
		3	1002
		4	1020-1022
		5	1023-1025
		6	1026-1028
		7	1250
		8	1260
		9	
		10	
		11	
		12	
		13	
		14	
		15 16	
		16	
PORT#	RIM INPUT MODULE	RIM INPUT	
RIM#	LOCATION	NUMBER	INPUT NAME
P2 RIM 4	INTERMEDIATE LEVEL NE	1	2065 DA
		2	2011 DA
		3	2012 DA
		4	2000 A-F
		5	2000 G-I
		6	2000 U-L
		7	2000 M-L
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
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Diamond II ACU #2 Continued

PORT#	RIM INPUT MODULE	RIM INPUT	
RIM#	LOCATION	NUMBER	INPUT NAME
P2 RIM 5	UPPER LEVEL NE	NUMBER 1	3047A-3047C
FZ KIIVI 3	OF FER LEVELINE	2	3047A-3047C 3047D-3047F
		3	3047G-3047L
		4	3047G-3047L
		5	
		6	
		7	<u> </u>
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
PORT#	RIM INPUT MODULE	RIM INPUT	
RIM#	LOCATION	NUMBER	INPUT NAME
P2 RIM 6	UPPER LEVEL NE	1	3041A-3041C
		2	3044A-3044C
		3	3044D-3044F
		4	3044G-3044I
		5	
		6	
		7	
		8	
		9	
		10	
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		14	
		15	
		16	
		10	
		B 184 ****	
PORT#	RIM INPUT MODULE	RIM INPUT	INDUT NAME
RIM#	LOCATION	NUMBER	INPUT NAME
P2 RIM 7	INTERMEDIATE LEVEL NW	1	2010-2010B
		2	2010C-2010H
	ļ	3	2010I-2010K
		4	2010L-2010N
		5	2010O-2010Q
		6	
		7	
		8	
		9	
		10	
		11	
		12	<u> </u>
		13	
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Diamond II ACU #3

ACU-3 is located in IDF 5

CONTROL	LER PANEL SCHEDULE	ACU # 3	
PANEL LC	CATION:		
	T-1115		
	INPUTS	START#	1
	<u> </u>	017111111	
ACU	ACU INPUT		
INPUT #	LOCATION	POINT #	POINT NAME
1	ACU SUPERVISED INPUT #1	1	NOT USED
2	ACU SUPERVISED INPUT #2	2	NOT USED
3	ACU SUPERVISED INPUT #3	3	NOT USED
4	ACU SUPERVISED INPUT #4	4	NOT USED
5	ACU SUPERVISED INPUT #5	5	NOT USED
6 7	ACU SUPERVISED INPUT #6 ACU SUPERVISED INPUT #7	6	NOT USED
/	ACU SUPERVISED INPUT #8	8	NOT USED
9	ACU SUPERVISED INPUT #9	9	NOT USED
10	ACU SUPERVISED INPUT #10	10	NOT USED
11	ACU SUPERVISED INPUT #11	11	NOT USED
12	ACU SUPERVISED INPUT #12	12	NOTUSED
13	ACU SUPERVISED INPUT #13	13	NOT USED
14	ACU SUPERVISED INPUT #14	14	NOT USED
15	ACU SUPERVISED INPUT #15	15	NOT USED
16	ACU SUPERVISED INPUT #16	16	NOT USED
	<u>CARD READERS</u>	START#	0
DODT#	DDE DE 40ED	DEADED	
PORT# RRE#	RRE READER LOCATION	READER NUMBER	DOOR NAME
P1 RRE0	MAIN LEVEL NW	0	NW LOADING DOCK
P1 RRE1	INDICATE OF THE PROPERTY OF TH	1	WEST EMPLOYEE ENTRANCE
P1 RRE2		2	WEST EMPLOYEE GATE
P1 RRE3		3	WEST EMPLOYEE VEHICLE GATE
		4	
		5	
		6	
		7	
PORT#	RIM INPUT MODULE	RIM I/O	
RIM#	LOCATION	NUMBER	INPUT NAME
P1 RIM 4	MAIN LEVEL NW	1	1221 A-E
		2	1221 F-J
		3	CD 1221
		4	
		5	
		6	
		7	
		8 9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
		1	

Diamond II ACU #3 Continued

PORT#	RIM INPUT MODULE	RIM I/O	
RIM#	LOCATION	NUMBER	INPUT NAME
	MAIN LEVEL NW	NUMBER 1	1216 D-F
FT KIIVI 5	MAIN LEVEL NVV	2	1217 A-B CD 1217
		3	1217 A-D CD 1217
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
PORT#	RIM INPUT MODULE	RIM INPUT	
RIM#	LOCATION	NUMBER	INPUT NAME
P1 RIM 6	MAIN LEVEL NW	1	CD 1194 B-P
		2	CD 1194 K
		3	1194 A1-B2
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
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		14	
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		16	
D057"	DIM INDUSTRICE	DIM DIST	
PORT#	RIM INPUT MODULE	RIM INPUT	INDUT NAME
RIM#	LOCATION	NUMBER	INPUT NAME
P2 RIM 4	MAIN LEVEL NE	1 1	1132 A-E
		2	
		3	
		4	
	<u> </u>	5	<u> </u>
		6	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Diamond II ACU #3 Continued

PORT#	RIM INPUT MODULE	RIM INPUT	
RIM#	LOCATION	NUMBER	INPUT NAME
P2 RIM 5	MAIN LEVEL NE	1	1153 B-G
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
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		15	
		16	

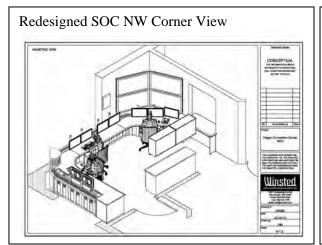
Existing & Redesigned Security Operations Center

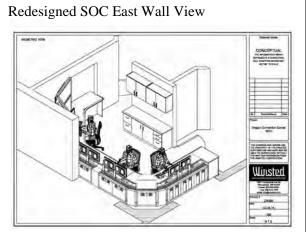
The following photos show the existing OCC SOC:

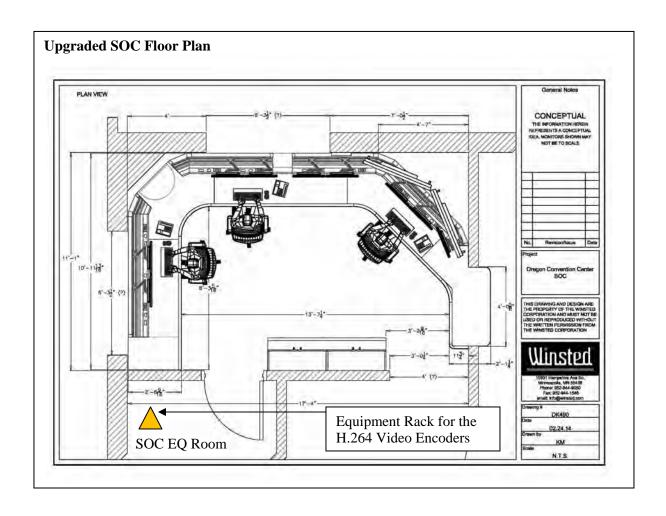


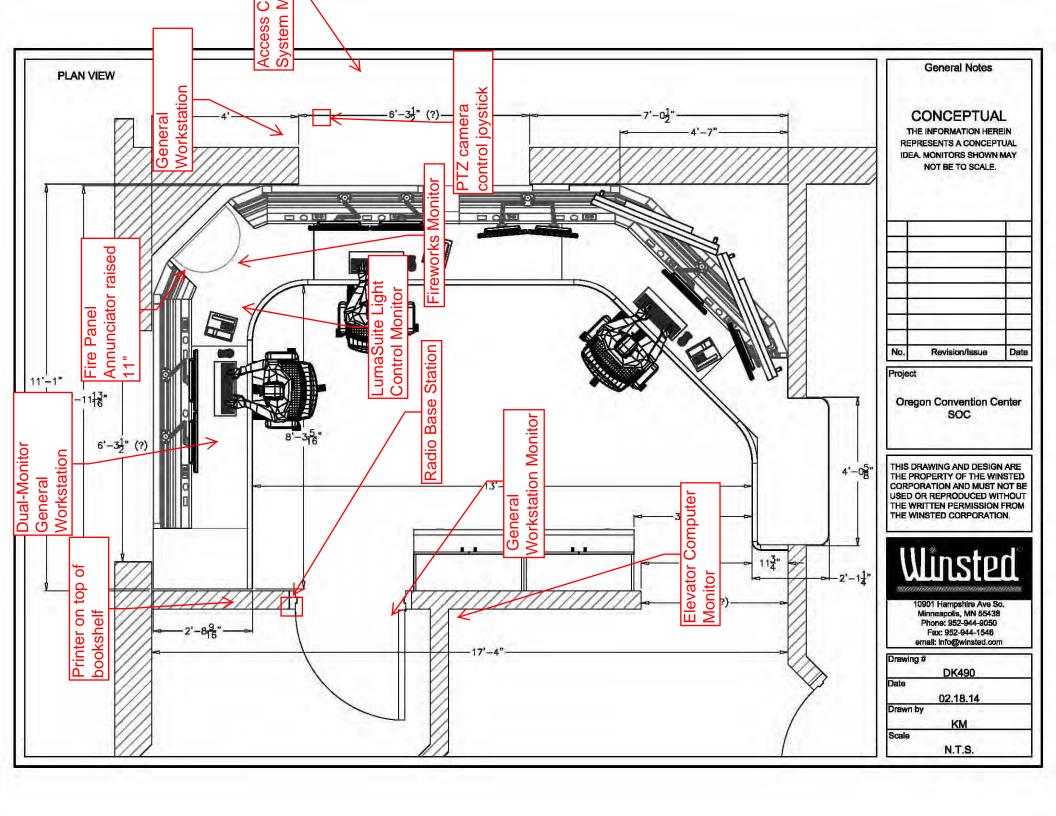


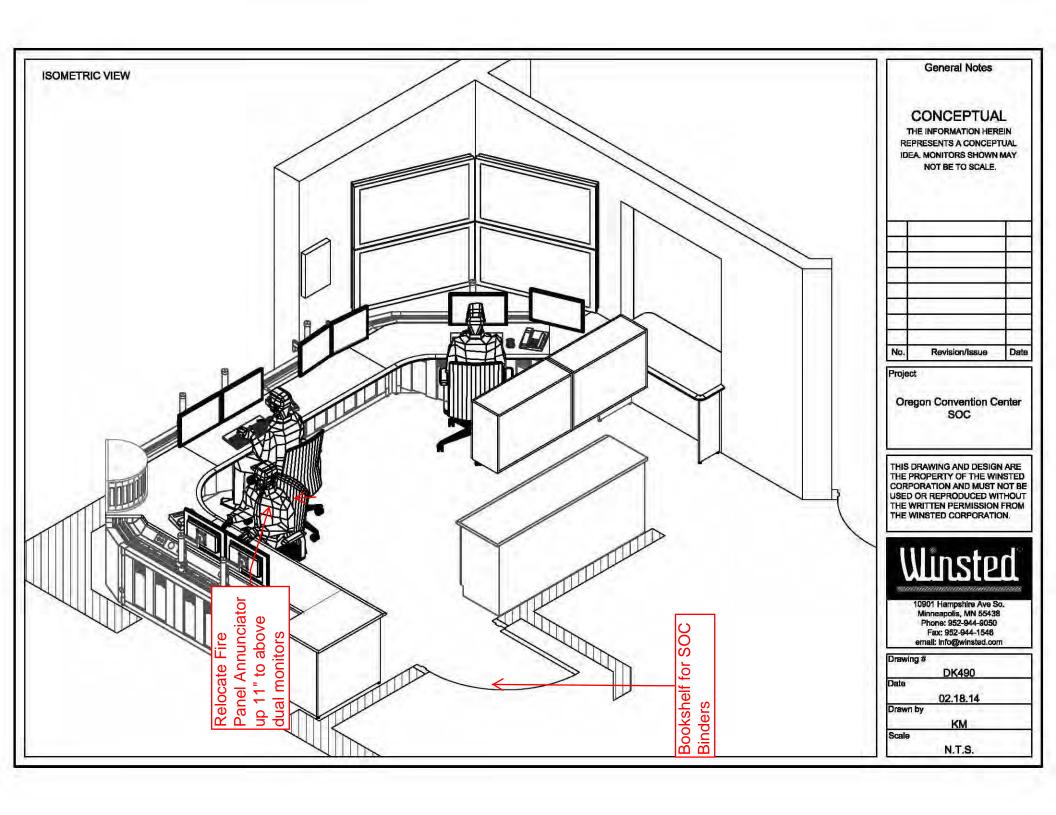
The following drawings depict the redesigned SOC with the new security console:

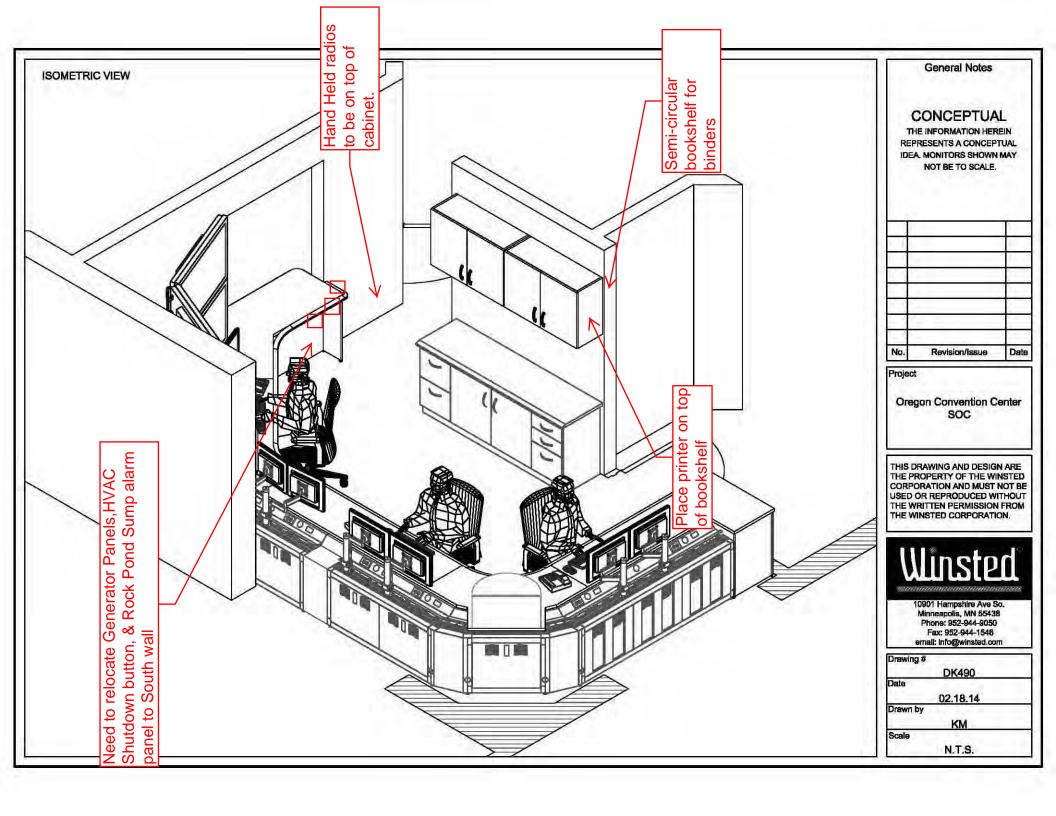












OCC's Replacement Access Control System (ACS) Specification

The Specification for a replacement ACS for OCC's existing Diamond II ACS will be as follows:

- 1. The ACS system shall be a web-based system utilizing server appliances and Mercury controllers. The ACS must have an established API with the VMS that allows alarm related OnSSI video segments to be viewed from the ACS web client alarm record screen. The ACS system shall be an S2 NETBOX Extreme Controller System or approved equal.
- 2. Card Readers will be HID iClass SE, no substitutions
- 3. Card credentials will be HID iClass SE printable ISO cards, no substitutions
- 4. All ACS reader controllers will have a power supplies with a minimum of 1 hr of backup battery protection. Power supplies will be Altronix or approved equal.
- 5. All ACS reader controllers will have circuit surge protection.
- 6. The ACS Badge Station Printer shall be a dual sided ID ISO-30 badge printer. The ID Badge printer shall be a Magicard Rio Pro or approved equal.
- 7. The ACS Badge Station ID Photo Camera shall be an 8 MP camera or better with Twain Driver TransTech Trans Cam Solo, or approved equal.

General Requirements--ACS System specifications

- 1. The security management system shall be implemented through network appliance architecture with a three-tiered modular hardware hierarchy and embedded three-tier software architecture.
- 2. The network appliance shall be capable of running on an existing TCP/IP network and shall be accessible, configurable, and manageable from any network-connected PC with a browser.
- 3. Browser access for configuration and administration of the system shall be possible from a PC on the same subnet, through routers and gateways from other subnets, and from the Internet. Control and management of the system shall therefore be geographically independent.
- 4. Security of the data communicated over the network to and from the browser, network controller, and nodes is protected by encryption (SSL 128-bit) and authentication (SHA-1).
- 5. The top hardware tier is the network controller. Embedded on the Network Controller are an operating system, a web server, security application software, and the database of personnel and system activity.
- 6. The middle hardware tier is the network node. The network node shall make and manage access control decisions with data provided by the network controller, and it shall manage the communication between the network controller and Application blades connected to the system's inputs, outputs, and readers. This modular design makes it possible, even during network downtime, for the system to continue to manage access control and store system activity logs. When network connectivity is re-established, the system activity logs are automatically re-integrated.
- 7. The bottom hardware tier is the Application Blades. Four unique Application blades shall be available:
 - a. Access Control Blade: shall support two readers, four supervised inputs, and four relay outputs.
 - b. Alarm Input Blade: shall support eight supervised inputs.
 - c. Relay Output Blade: shall support eight relay outputs.
- 8. Temperature Blade: shall support eight analog temperature sensor inputs.

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- The security management system shall integrate, within a browser interface, access control, alarm monitoring, video monitoring, and temperature monitoring applications. These applications shall be embedded in a three-tier software architecture.
- 10. The database tier shall use PostgreSQL. PostgreSQL is a full featured, high performance database management system that supports ODBC. This shall provide a small footprint, low administration, and high reliability relational database that is embedded without requiring the use of a separate PC server.
- 11. The web server tier shall be based on an Apache™ embedded web server. This shall provide a graphically rich security management application through a standard web browser.
- 12. The web browser shall provide UL 1076 compliant browser-based monitoring and incorporate asynchronous Javascript[™] and XML technology (AJAX) for a faster user experience.
- 13. The security application software tier contains the business logic. This application shall also be embedded on the network device and requires no additional memory or processing power.
- 14. This three tiered embedded software design runs within an embedded Linux operating system and shall require no client-side software other than a web browser.
- 15. All equipment and materials used shall be standard components, regularly manufactured, and regularly utilized in the manufacturer's system.
- 16. All security management systems and components shall have been thoroughly tested and proven in actual use.
- 17. All security management systems and components shall be provided with an explicit manufacturer warranty of one year for software and two years for hardware.

Overall System Capability

- 1 The security management system shall meet the requirements of business and government access control systems. The system shall monitor and control facility access, and shall perform alarm monitoring, camera and video monitoring, communications loss monitoring, and temperature monitoring. The system shall also maintain a database of system activity, personnel access control information, and system user passwords and user role permissions. The system shall be controlled from a web browser and require no software installation or client licenses. The system shall provide control and access to users on Local Area Networks (LAN), Wide Area Networks (WAN), wireless networks, and the Internet. The system shall provide email and/or text message alerts for all alarm conditions and threats.
- 2 Widget Desktop: The security management system shall provide a widget-based user interface that enables users to create custom monitoring layouts by selecting and arranging widgets on a desktop.
 - a) Each widget shall provide easy access to a frequently used function—allowing users to, for example, view an activity log, a camera view, or real-time web content.
- 3 System administrators can save custom layouts for subsequent call up by users, who can then arrange the widgets as desired on their desktops. The administrator shall determine which widgets are available in a layout and the extent to which users can customize the layout.
 - a) The widgets that shall be available for a layout are: Activity Log, Clock, Duty Log Entry, Explorer, Events, Floorplans, Intrusion Panel, Passback Grace, PhotoID History, Portal Status, Portal Unlock, Statistics Block, Status, Threat Level, and Video.
- 4 System Partitioning: The system administrator shall have the ability to divide the S2 system into partitions, allowing subsets of the overall population and/or resources to be managed separately.

- a) From the default Master partition, one or more additional partitions can be created.
- b) Each partition shall contain some number of administrators, card holders with their credentials, and resources.
- c) When performing administrative functions, the administrator of a partition shall have the ability to affect only the cardholders and resources in that partition. However, resources can be shared across partitions through the mapping of access levels from one partition to another.
- 5 System partitioning shall have a precision feature that allows administrators in one or more partitions to view and perform edit functions on person records that belong to another partition.
 - a) The security management system shall provide the following Access Control capabilities:
 - i) Integrated photo ID creation capability with video verification.
 - ii) User interface secured access under encrypted password control.
 - iii) System-wide timed anti-passback function.
 - iv) Regional anti-passback with mustering and roll call functions.
 - v) Region occupancy counting and control.
 - vi) "First-in-unlock" rule enforcement.
 - vii) Multiple access levels and cards per person.
 - viii) 128-bit card support for Wiegand card readers.
 - ix) Detailed time specifications.
 - x) Simultaneous support for multiple card data formats.
 - xi) Elevator control.
 - xii) Access privileges variable by threat level.
 - xiii) Scheduled portal unlock by time and threat level.
 - xiv) Card format decoder quickly discovers unknown card formats.
 - xv) Card enrollment by reader or keyboard.
 - xvi) Compatibility with various input devices, including biometric readers.
 - xvii) Activation/expiration date/time by person with one minute resolution.
 - xviii) Access level disable for immediate lockdown.
 - xix) Use of Threat Levels to alter security system behavior globally.
 - xx) Multiple holiday schedules.
 - xxi) Timed unlock schedules.
 - xxii)Scheduled actions for arming inputs, activating outputs, and locking and unlocking portals.
 - xxiii) Card enrollment reader support.
 - xxiv) Dual-reader portal support.
 - xxv)Wiegand Reader support.
 - xxvi) Magnetic-stripe reader support with cards using ABA Track 2 format for up to 200 bits.
 - xxvii) Wiegand keypad PIN support for 4-digit or 6-digit PINs.
 - xxviii) 8-bit and 4-bit burst keypad support for 4-digit or 6-digit PINs.
 - xxix) Integration with supported alarm panels.
 - xxx)Optional storage and recall of ID photos and personal/emergency data.
 - xxxi) Up to 60,000 person records.
 - b) The security management system shall provide the following Monitoring capabilities:
 - i) Common alarm panel integration for disarm on access, and arm on egress.
 - ii) Integrated alarm monitoring and event management with alarm panels.

- iii) Support for the direct viewing of IP cameras.
- iv) Integrated real-time IP, DVR, and NVR systems with stored video replay for events.
- v) Provides alarms on video loss, video motion detection, and video restore events.
- vi) Virtual inputs for video loss and building-occupancy-limits-exceeded.
- vii) Provides alarms on communication loss and temperature variation.
- viii) Support for the creation of custom sets of alarm event actions.
- ix) Provides the ability to record video and link to video for alarm events.
- x) Available video control and playback through the user interface.
- xi) Provides the ability to assign threat levels to various alarms according to severity.
- xii) Provides the ability to select up to 20 levels of priority for event actions.
- xiii) Support for electronic supervision of alarm inputs.
- xiv) Support for the use of output relays for enabling circuits under alarm event control.
- xv) A monitoring desktop that integrates video, system activity logs, floorplans, ID photos, and alarm notifications.
- xvi) Support for the creation of unlimited customized monitoring layouts through the use of widgets.
- xvii) Graphic floorplans with active icons of security system resources.
- xviii) System user permissions to grant whole or partial access to system resources, commands, and personal data.
- xix) Secure access to the user interface under encrypted password control
- xx) Delivery of alerts via browsers, email, and text messages.
- c) The security management system shall provide the following Video Management capabilities:
 - i) Real-time video monitoring displays, including unlimited cameras simultaneously.
 - ii) Playback of event-related video.
 - iii) Video switching and video widget pop-ups based on access activity or event activation.
 - iv) Integrated alarm inputs from the video management system.
 - v) Digital playback of video events.
 - vi) Linking of video and events based on triggers provided by the security management system or video system.
 - vii) Support for multiple DVR and NVR systems.
 - viii) Multiple pre-programmed supported cameras.
 - ix) Recall of photo ID and real-time image for comparison.
 - x) Monitoring and control through a web browser interface.
 - xi) System user permissions to grant whole or partial access to system cameras and video resources.

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- d) The security management system shall provide the following Security Database capabilities:
 - Maintain data of system activity, personnel access control information, system user passwords and custom user role permissions for whole or partial access to system resources and data.
 - ii) Partitions: It shall be possible to partition the system to create independent, virtual security management systems for multiple populations.
 - iii) Support for the sharing of access levels and user privileges across partitions in a system.
 - iv) Built-in Open Database Connectivity (ODBC) compliant database for personal data.
 - v) LDAP integration for single-user logon authentication.
 - vi) Up to 60,000 person records.
 - vii) Network-secure API for external application integration.
 - viii) Extensive and easy to use custom report generator.
 - ix) User-defined data fields in personnel records.
 - x) Record recall by vehicle tag, name, or card.
 - xi) ODBC compliant Database.
 - xii) An API for adding to, deleting from, and modifying the database.
 - xiii) Storage of system user passwords and permissions.
 - xiv) Storage and recall of ID photos and emergency personal information.
 - xv) Pre-defined reports on system configuration, system activity history, and people.
 - xvi) English-based query language for instant custom reports.
 - xvii) Custom report writer interface that allows the interactive creation of custom reports. Reports may be saved for later reuse. No third party software (such as Crystal Reports) shall be necessary.
 - xviii) Periodic backup to on-board flash ROM and optional network attached storage (NAS), including FTP servers.
 - xix) Periodic archive creation for historical custom reporting and improved on-board database performance.
 - xx) Email and text messaging (SMS) alert notifications.

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Hardware Requirements

- a) The security management system shall employ a modular hardware concept that enables simple system expansion and utilizes a three-tiered hardware hierarchy:
 - i) At the top tier is the network controller, which shall contain the database engine, web server, application software, and configuration data. It is at this level that System Users, through a browser interface, shall interact with the security management system, set configurations, monitor activities, run reports, and manage alarms.
 - ii) At the second tier is the Network Node, an intelligent device with native TCP/IP support, which shall make and manage access control decisions.
 - iii) At the third tier are the application extension blades. Each of these blades shall connect to and manage a set of inputs, outputs, readers, cameras, or temperature monitoring points.
 - iv) The network device shall run on existing building TCP/IP networks and shall be configurable for access from separate subnets, through gateways and routers, and from the Internet. A MicroNode shall also be available that combines an Access Control blade and Network Node.
- b) The network controller shall contain the operating system, database engine, web server, application software, and configuration data. The network controller shall be available in three configurations to support small to medium, large, and ultra-large systems. Those systems shall be identified respectively as: a solid-state network controller, an enterprise network controller.
- c) A solid-state network controller shall consist of a blade-style, circuit card that also combines a network node on the card. The network controller portion of the card shall contain a processor, flash memory, and a network switch. The network controller shall be supplied with 12V DC at a minimum of 3 amps. Internal battery backup shall supply sufficient power to provide for an orderly shutdown of the system in case of loss of external power. External battery backup shall be used to provide uninterrupted operation in the event of external power loss. The Network Node portion shall contain a serial port for communication with the Application blades and a network interface port.
- d) The local network controller shall be available in wall-mount or 2RU rack-mount enclosure. It shall contain a motherboard with an Intel® AtomTM processor and solid-state disk drive. An Ethernet connector shall be provided for network connection.
- e) The enterprise network controller shall consist of a 1U rack-mounted controller with additional processing power and memory, disk drive, serial port and network connections. The enterprise ultra network controller shall consist of a 2U rack-mounted controller with additional processing power and memory, RAID-1 disk drive array, serial port and network connections. The enterprise and enterprise ultra network controllers shall have the following capabilities:
 - i) Nodes/MicroNodes: 64 (256 for enterprise ultra)

- ii) Access control readers: 896 (3584 for enterprise ultra)
- iii) Access cards: unlimited
- iv) Access levels: 512 per partition
- v) Concurrent system users: 35
- vi) Alarm input points: 2000 (4000 for enterprise ultra)
- vii) Control point outputs: 2000 (4000 for enterprise ultra)
- viii) Temperature monitor points: 500
- ix) IP, DVR, and NVR cameras: Limited only by license
- x) Online event history log: up to 400,000,000 records
- xi) Ethernet switch ports: 2
- xii) Time specifications: 512 per partition
- xiii) Time spec groups: 64 per partition
- xiv) Time specs: 8 per group
- xv) Threat Levels: 8 per partition
- xvi) Threat Level Groups: 32 per partition
- xvii) Holidays: 30 per partition
- xviii) Access Levels per person: 16
- xix) Credentials per person: 100
- xx) Report Groups: 50
- xxi) Camera Groups: 50
- f) The Network Node shall make and manage access control decisions with data provided by the Network Controller, and it shall manage the communication between the Controller and Application blades connected to the system's inputs, outputs, and readers. The Node shall be supplied with 12V DC at a minimum of 3 amps. The Node blade shall supply all Application blades in the node with power. The Network Node shall be available in three configurations: a combined network controller/network node blade; a standalone Network Node blade, and a MicroNode with included Access Control blade. Each Network Node shall support up to seven Application blades except for the MicroNodes. Communications between the node and network controller shall be encrypted and authenticated (SHA-1). The Application blades shall interface with the network controller through the Network Node. The Application blades shall be blade-style circuit cards.
- g) The MicroNode shall combine a Network Node and an Application blade capability in one enclosure. The Access Control blade portion of the MicroNode shall support two readers, one temperature input, four supervised inputs and four relay outputs. A MicroNode shall utilize 12VDC power at 3 Amps or Power over Ethernet (PoE) at the 802.3AF standard and be capable of supplying direct power to 2 readers, 2 motion REXs, and 2 door strikes.

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Hardware Packaging Requirements

a) The security management system shall have various hardware enclosures and configurations available to support different installation requirements. Enclosures shall be available for wall or rack mounting. The wall-mount enclosures shall have a lock requiring a key, and a cabinet door tamper switch.

Software Requirements

- a) Operating System and Application Software:
 - i) The embedded operating system for the solid-state network controller shall be Linux® or approved equal. The disk-based enterprise network controllers shall use Ubuntu 10.04 LTS (long term support) as the operating platform or approved equal. The operating system kernel shall be open-source and no operating system training or certification shall be necessary.
 - ii) The security management system application software shall be embedded in the system. The database shall be an embedded PostgreSQL **or approved equal** relational database requiring a small footprint and provides high reliability. The web server shall be based on an embedded ApacheTM web server **or approved equal** enabling users to access and operate the system using a standard web browser.

b) Software Licensing:

- i) Software licensing shall be based upon the number of readers and cameras for one network controller board. Software license upgrades shall be available if system reader and camera capaOCC/METRO must be raised. The user license shall be valid in perpetuity and shall include one year of software updates from the date of shipment from the factory.
- ii) Licensing shall be controlled by a Product Key and an Activation Key. The Product Key contains the licensed system features and limits. To upgrade your system license to enable more cameras or more doors you will need a new Product Key. The Activation Key contains the warranty expiration date. The keys are locked to the system license number. The system license number shall be viewable on-screen on the Support: About page
- c) Software Upgrades: Software upgrades shall be possible from a browser on any network-connected PC, by uploading a software update to the controller. Controllers shall automatically upgrade all connected nodes. No client software installation shall be necessary.
- d) Online Help and Documentation: The security management system shall be provided with complete embedded documentation. The on-line documentation shall include:
 - i) Context-sensitive online Help. (The Help displayed is specifically relevant to the current screen.) The online Help system shall provide explanations and procedures for all monitoring, administrative, and system configuration and maintenance functions. The Help system shall have linked table of contents, a linked index, and frequently asked

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- questions pages. Each topic shall also have links to related topics. Each Help topic shall be printable.
- ii) Technical Support Notes: These documents shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.
- iii) Installation Guides: These documents shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.
- iv) Video Integration Guides: These documents shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.
- v) System Administration Guide: This document shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics
- e) Support Collaboration: It shall be possible, by the use of a network Support Collaboration Tool, for a technical support specialist to connect to the security management system and assist on-site technicians from remote network-connected locations. It shall only be possible for an on-site system administrator or technician to initiate this connection. There shall be no way to initiate this connection from outside the secure network.
- f) Language Support: The security management system shall be provided with multiple language support. The ability to switch from one language to another shall be accomplished through the user interface. Translation of the user interface, online help and documentation into other languages shall be available.
- g) Date Formats: The security management system shall support global date formats as follows:
 - i) mm/dd/yyyy
 - ii) dd/mm/yyyy
 - iii) yyyy/mm/dd
- h) Floorplans: The security management system shall provide graphic floorplan capability including graphic display of links to other floorplans, alarms system resources such as portals, IP video cameras, inputs, outputs, and temperature monitoring points.
- i) The Network Administrator holding at least a 'Setup' user role shall be able to graphically configure device icons onto the floorplan images, and to upload additional floorplan images. JPEG images shall be supported, and the maximum size for a floorplan image shall be 256K.
- j) It shall be possible to create floorplan groups for the purpose of assigning or withholding assignment of these groups to system user permissions known as Custom User Roles. If a floorplan group is assigned to a particular system user then the floorplans in that group shall be viewable by that system user.
 - Personnel Data: The security management system shall maintain person data relating to access control, system user privileges, photo identification, system activity, and contact information.
 - ii) All person data in the system shall be integrated onto one tabbed page for viewing, editing, and deletion by system users.

- iii) A system user holding at least an 'Administer' user role shall be able to create, delete, and modify person records, including access levels.
- k) Data Import and Export: A Data Management Tool shall be provided that supports, via an API, the import and export of personnel data. This tool shall make possible the prepopulating, and ongoing populating, of cardholders into the security management system database. Data that shall be importable shall include:
 - i) LASTNAME
 - ii) FIRSTNAME
 - iii) MIDDLENAME
 - iv) ACTDATE (activation date)
 - v) EXPDATE (expiration date)
 - vi) NOTES
 - vii) TEXT1...TEXT20 (user defined fields 1 through 20)
 - viii) ACCESSLEVEL1...ACCESSLEVEL32
 - ix) PERSONID
 - x) PIN
 - xi) ENCODEDNUM1...ENCODEDNUM10
 - xii) HOTSTAMPNUM1...HOTSTAMPNUM10
 - xiii) CARDFORMAT1...CARDFORMAT10
 - xiv) BADGELAYOUT
 - xv) JPEG ID PHOTO
 - xvi) CONTACT PHONE
 - xvii) CONTACT EMAIL
 - xviii) CONTACT SMS EMAIL
 - xix) CONTACT LOCATION
 - xx) OTHER CONTACT NAME
 - xxi) OTHER CONTACT TELEPHONE
 - xxii) OTHER CONTACT TELEPHONE2
 - xxiii) VEHICLE 1 COLOR
 - xxiv) VEHICLE 1 MAKE
 - xxv) VEHICLE 1 MODEL
 - xxvi) VEHICLE 1 STATE
 - xxvii) VEHICLE 1 LICENSE#
 - xxviii) VEHICLE 1 TAG#

- xxix) VEHICLE 2 COLOR
- xxx) VEHICLE 2 MAKE
- xxxi) VEHICLE 2 MODEL
- xxxii) VEHICLE 2 STATE
- xxxiii) VEHICLE 2 LICENSE#
- xxxiv) VEHICLE 2 TAG#

1) Data Security:

- i) Communication between the network controller and the browser shall be secured using SSL. In addition, administrative access to the security management application and the personnel data shall be password protected and controlled by roles-based authorizations.
- ii) Communication between the network controller and the Network Nodes shall be encrypted and authentication/tamper detection shall be done using the SHA-1 algorithm.
- iii) Communication between the network controller and other systems (when using the API) shall be secured using SSL and authentication/tamper detection shall be done using the SHA-1 algorithm.
- m) Data Backups: It shall be possible to configure regular automatic database backups.
 - i) It shall be possible to back up a solid-state network controller to an on-board compact flash.
 - ii) It shall be possible to back up an enterprise network controller to a built-in hard drive.
 - iii) It shall also be possible to save backups from any controller to separate network attached storage (NAS) and file transfer protocol (FTP) servers.
 - iv) It shall also be possible to setup regular automatic creation of database archive files.
- n) On-board Data Management: Each night the security management system shall truncate a sufficient number of the oldest records held on-board to reduce the database to its set limit, if required. This shall create the needed storage space for additional system activity records. Truncation will be performed on a First-in, First-out (FIFO) basis.
- o) Partitions: It shall be possible to create multiple partitions for the management of multiple security systems or multiple populations.
 - i) It shall be possible to limit access to the data and resources of one partition to those with permissions for that partition.
 - ii) It shall be possible for each partition to have its own population, resources, rules, events, video management, log data, reports and network resources.
 - iii) It shall be possible to grant Monitor, Administer, and Setup privileges for multiple partitions to the same user. It shall also be possible to create custom user roles for each partition.
 - iv) Each partition shall require at least one Node.

- p) User Roles and Permissions: There shall be 4 pre-programmed levels of User Roles, and a total of 16 possible Custom User Roles that can be configured in the system, with different permissions for each user:
 - i) Master Partition Monitor: These users may use the functions in the Monitor menu only within the Master (default) partition. Monitor functions shall include viewing the activity log, cameras, and floorplans.
 - ii) Master Partition Administer: These users may use the functions of both the Administration and Monitor menus only within the Master (default) partition. Administrative functions shall include adding and editing person information in the enrollment database, issuing and revoking cards, generating reports, and performing database backups.
 - iii) Master Partition Setup: These users may use the functions of the Setup, Administration, and Monitor menus only within the Master (default) partition. Setup functions shall include defining access control, alarm event behavior, camera settings, floorplan images and configurations, holiday and time specifications. Setup functions shall also include: designation of network resources such as time and DNS servers, email and network storage settings; performance of system maintenance such as database backup and restore, software updates and file cleanups; designation of time zone, daily backup schedule and enrollment readers.
 - iv) Full System Setup: These users may use the functions of all menus in all partitions.
 - v) Custom User Roles: In addition to the roles above the system shall also support the creation of detailed user permissions regarding which cameras, floorplans, elevators, events, access levels, portals, reports, and personal data fields the system user may see, edit, delete, or control.
- q) Alarm Panels: The security management system shall be capable of integrating with alarm panels, arming the panels, disarming the panels, and triggering events based upon alarm panel status.
- r) DMP Intrusion Panels: The S2 system shall be capable of integrating with Digital Monitoring Products (DMP) XR500 Command Processor Panels.
 - i) Security administrators can use events on a DMP panel, such as a zone going into an alarm state, to trigger events in the S2 system. They can also use events in the S2 system to control operations on the DMP panel, such as the arming or disarming of an area.
 - ii) Monitors can use the Intrusion Panel widget to view configuration and status information for a DMP panel. They can also arm and disarm areas, bypass and reset zones, and activate and deactivate outputs associated with the panel.
- s) Alarm Events: The security management system shall be capable of managing alarm events.
 - iii) It shall be possible to delay an input's change to the Alarm state by a specified number of seconds. The range of delay options shall be .5 seconds or 1-120 seconds.

- iv) It shall be possible to associate specific actions with each alarm event. These actions may include, but are not limited to:
 - (1) Lock and Unlock portals.
 - (2) Activate and Deactivate relay outputs.
 - (3) Arm and Disarm input groups.
 - (4) Pulse outputs or output groups.
 - (5) Arm and Disarm alarm panels.
 - (6) Send emails and SMS messages.
 - (7) Move cameras to preset positions.
 - (8) Switch to a video monitor.
 - (9) Record video.
 - (10) Momentarily unlock portals.
 - (11) Display ID photos.
 - (12) Change the system threat level.
 - (13) Make entries in the activity log.
 - (14) Play a digital sound file.
 - (15) Display alarms in different colors.
 - (16) Set a priority for an alarm (one of 20 levels, with 1 being the highest).
 - (17) Require a duty log entry.
 - (18) Clear alarm automatically or require an acknowledgement.
- v) A system user holding at least a "Setup" user role shall be able to create, delete, and modify alarm system inputs, input groups, outputs, output groups, alarm panels, and events.
- vi) It shall be possible to trigger events based on system activity such as:
 - (1) Video motion detection.
 - (2) Camera failure and camera restore events.
 - (3) Valid or Invalid card reads.
 - (4) Portals held or forced open.
 - (5) Valid card reads with a specified access level.
 - (6) Inputs entering an alarm state.
 - (7) High and low temperature events.
 - (8) Alarm panel arming failures.

- (9) Alarm panel zone faults.
- (10) Tailgating and passback violations.
- (11) Occupancy limit violations.
- (12) Zone empty violations.
- (13) Node power failure, communication failure, timeout, and tamper events.

t) Activity Monitoring

- i) The security management system shall support a Monitoring Desktop that integrates video, system activity logs, floorplans, ID photos, and alarm notifications. Activity Log viewing includes one-click navigation to person records.
- ii) The system shall support a Widget Desktop that allows the creation of custom monitoring layouts. Within a custom layout, widgets display live video, system activity logs, alarm notifications, ID photos, floorplans, duty log entries, portal status displays, and DMP intrusion panels.
- iii) Many widgets support multiple partition viewing and filtering. For example, the Activity Log widget can display data from multiple partitions and data filtered by event type or reader group, and/or based on the text content of the event.
- iv) It shall also be possible to view cameras, activity logs, and floorplans on separate monitoring pages within the application.
- u) Network-based Camera and Video Surveillance: The system shall provide live IP video surveillance capability. The number of supported cameras shall be limited only by license. The system's video capabilities shall include video monitor switching based on access activity. The system shall provide monitoring, configuration, and administration of IP video. Cameras can be separately monitored or monitored in groups.
 - Presets: The system shall support the creation, deletion, and editing of camera preset
 positions in the system. It shall also be possible to save changes in preset positions
 directly to a camera website.
 - ii) Views: The system shall support the creation, deletion, and editing of multiple camera views, specifically Quad views (four cameras). The application shall provide a drop down pick list for selecting current views or naming of new views.

v) Access Control:

- i) The security management system shall be able to make access control decisions, define a variety of access levels and time specifications, write system activity into a log file, maintain a personnel enrollment database, receive signals from input devices such as door switch monitors, card readers and motion detectors, energize devices such as door locks and alarms via outputs.
- ii) Time Specifications: The system shall be capable of storing up to 512 time specifications. Each time specification must be assigned a unique alphanumeric name of up to 64 characters. The definition of a time specification shall require the assignment of both a start time and an end time. Each day of the week shall be individually assignable for inclusion in time specifications. Up to three holiday groups shall be assignable for inclusion in time specifications. If no holidays are assigned to a time specification then no holiday access shall be allowed.
 - (1) Time specifications shall be assignable to access levels, output groups, portal groups, input groups, and alarm events.
 - (2) Time specifications shall function appropriately per node for the time zone specified for that node
- iii) Card Formats: The system shall support the use of readers that use the Wiegand Reader Interface. The system shall default to the Wiegand 26 bit format unless a different bit length format is created in the system. The system shall support but not require the use of the card facility code. The system shall also support the use of the Magnetic Stripe ABA track 2 card data formats.
 - (1) It shall be possible to create new card formats, designate start bits and bit lengths for facility codes and card ID numbers, as well as designate parity bits. The system shall support up to 32 different card formats. The system shall support card formats up to 128 bits.
 - (2) It shall be possible to reverse the read order of the bits in the facility code and/or card ID portions of a card format.
 - (3) It shall be possible to view and change the default parity bit definitions for a card format.
- iv) Access Levels: The system shall be capable of storing up to 512 access levels in each partition. Each access level must be assigned a unique alphanumeric name of up to 64 characters. The definition of an access level shall require the assignment of a reader or reader group, and a time specification. It shall be possible to also assign an elevator floor group to an access level.
- v) First-in Unlock Rule: The system shall support the use of a first in unlock rule. It shall be possible to use this rule to control the unlock behavior of portal groups with assigned unlock time specs. The unlock rule shall require a card read of a specified access level. The portals in the group shall unlock only when the First-in Unlock rule is satisfied and the unlock time spec is valid.

- vi) Holidays: The system shall be capable of storing up to 30 holidays per partition. Each holiday must be assigned a unique alphanumeric name of up to 64 characters. The definition of a holiday shall require a start date and an end date. Holidays shall have the ability to span several days using only one holiday slot. Holiday definitions shall support the designation of a start time and an end time. If no start time is designated then the system shall default to 00:00 (start-of-day). If no end time is designated then the system shall default to 24:00 (end-of-day). Holidays shall require the use of 24-hour time format, e.g. 17:00 is 5:00PM.
- vii) Portals: A portal is any access point and each portal supports up to two access reader devices. The System User, holding at least a "Setup" user role, shall be able to view current portal definitions, change portal definitions, delete portals, and create new portals. Creating a portal defines the access and alarm behavior of the access point. This can include:
 - (1) Card readers and keypads.
 - (2) Output for locking.
 - (3) Input for monitoring the door switch.
 - (4) Input for a Request-to-Exit function.
 - (5) Local alarm outputs and system alarm events.
- viii) Portal Groups: It shall be possible to create groups of portals and to assign an unlock time specification to the entire group. All the portals in the group shall remain unlocked during the time specified.
 - (1) It shall be possible to use portal groups for the purpose of assigning or withholding assignment of these groups to system user permissions known as Custom User Roles. If a portal group is assigned to a particular system user then the portals in that group shall be viewable and unlockable by that system user.
- ix) Portal Alarm Conditions: Portals shall have four alarm conditions. The four alarm conditions are as follows:
 - (1) Forced: When a portal is opened and there has been no card read, nor request to exit.
 - (2) Held: When a portal is held open past the expiration of the shunt timer.
 - (3) Invalid: When the portal reader reads a card for which there is no entry in the database.
 - (4) Valid: When the portal reader reads a card for which there is a valid entry in the database.
- x) Two-man entry restriction: It shall be possible to require two valid card reads by different cardholders within a specified number of seconds for entry to a specific portal.
- xi) Anti-passback: The system shall support both regional and timed anti-passback access control. For anti-passback functions, it shall be possible to configure regions, assign readers to those regions, and specify events for response to tailgate, passback, and

occupancy limit violations. It shall also be possible to designate parent regions for hierarchical anti-passback.

- (1) Grace: It shall be possible for a system Monitor or Administrator to Grace card holders from passback and tailgate violations.
- (2) It shall also be possible to set a specific time for all cardholders to be Graced daily.
- (3) The system shall be able to automatically place the cardholder in a predefined region upon the selection of the grace option
- xii) Mustering: To aid in evacuation management it shall be possible to designate a region or regions for mustering. It shall be possible to quickly get an occupancy count and occupant list for any region.
- xiii) Scheduled Actions: It shall be possible to specify system actions to occur at scheduled times. These actions can include:
 - (1) Arming and disarming inputs.
 - (2) Activating and deactivating outputs.
 - (3) Locking and unlocking portals.
- xiv) Floorplans: The system shall be capable of displaying active graphic floorplans and configuring each floorplan with icons representing system resources: cameras, portals, temperature points, and alarms. A network administrator holding at least a 'Setup' user role shall be able to upload floorplan images and graphically configure device icons onto the floorplan images. Viewing floorplans will require the Macromedia Flash Player 9.0 plug-in for the browser.
 - (1) It shall be possible to create floorplan groups for the purpose of assigning or withholding assignment of these groups to system user permissions known as Custom User Roles. If a floorplan group is assigned to a particular system user then the floorplans in that group shall be viewable by that system user.
- xv) Elevator Control: The system shall be capable of controlling elevator access to floors. The system shall be capable of controlling up to 52 floor buttons per node. It shall be possible to create, change, or delete floor groups to assign a free access time specification to a floor group. The floors in this group will be freely accessible during the times defined by the chosen time specification.
 - (1) It shall be possible to create elevator groups for the purpose of assigning or withholding assignment of these groups to system user permissions known as Custom User Roles. If an elevator group is assigned to a particular system user then the elevators in that group shall be viewable by that system user.
- xvi) A security management system user holding a "Setup" user role shall be able to create, delete, and edit access control specifications.

w) Threat Levels:

i) It shall be possible to configure up to eight threat levels. It shall be possible to alter security system behavior through the use of threat levels. Groups of threat levels may be

created and assigned to portal groups, access levels, input groups, output groups, floor groups, and event actions. The behavior of groups, access levels, and event actions with assigned threat level groups shall change based upon the current system threat level.

- ii) The security management system shall support 32 threat level groups.
- iii) It shall also be possible to change the system threat level in response to an alarm event.
- iv) The current system threat level shall display in the title bar of the security application interface and on floorplans.

x) Reports:

- i) The security management system shall be capable of producing a variety of predefined reports regarding software and security hardware configuration, event history, and the administration of people within the system. In addition, an easy to use query language shall be included to create ad hoc reports. The query language shall be documented in the online help system. Alternatively, it shall be possible to specify a query by use of pointand-click.
- ii) It shall also be possible to produce reports directly from the network controller based on data in archive files on FTP servers, network attached storage, or the controller-attached compact flash.
- iii) The security management system shall support a graphic interface for interactively building custom reports from either historical or personnel data. These reports shall be savable for later reuse. Parameters can be inserted into reports to prompt for data input at report runtime. Report results can be printed, output to a PDF file or put into a spreadsheet.
- iv) It shall also be possible to group reports for assignment to custom user roles. Any reports not grouped and assigned to a custom user role shall not be viewable by that system user.
- v) Report generation shall not affect the real-time operation of the system.
- vi) The specific reports provided shall include the following:
 - (1) Configuration Reports
 - (a) As Built: A graphical report that displays an image of each Application blade in a node and the specific resources (inputs, outputs, readers, etc.) configured for that blade. The network settings for the node shall also be included.
 - (b) Cameras: Displays all camera configuration information including control address, IP port, and camera type.
 - (c) Camera Presets: Displays configured presets for each camera in the system.
 - (d) Elevators: Displays elevator configuration information including Node, Reader, and Floor to output mappings.
 - (e) Floor Groups: Displays all configured floor groups for use in elevator control.
 - (f) Holidays: Displays holiday specification information.

- (g) Portals: Displays portal definition information including reader, DSM input, REX input, alarm outputs, and events.
- (h) Portal Groups: Displays a list of all defined portal groups.
- (i) Reader Groups: Displays defined groups of readers.
- (j) Resources: Displays all configured system resources including readers, inputs, outputs, elevators, and temperature points.
- (k) Threat Level Groups: Displays all configured threat level groups and the threat levels assigned to them.
- (l) Threat Levels: Displays all configured threat levels including the description and color assignment.

(2) History Reports

- (a) Access History: Displays access history based on an entered query. The system user can specify the query using either the keyboard or point-and-click selection.
- (b) Custom Report: This provides the capability to create custom reports of historical data. A graphic interface provides the user with the ability to interactively create and save reports for later use. Parameters can be inserted into reports to prompt for data input at report runtime. Report results can be printed, output to a PDF file or put into a spreadsheet.
- (c) General Event History: Displays time, type of activity, and activity details for a variety of event types. The system user can select the specific event types for the report.
- (d) Portal Access Count: Display how many times users have used a portal.
- (e) Audit Trail: Displays an audit trail of system changes and the name of the system user that made the changes. It shall be possible to specify the dates and times covered in the report.

(3) People Reports

- (a) Access Levels: Displays all access levels entered into the system including time specification, reader/reader group, and floor group.
- (b) Current Users: Displays a list of all security system users currently logged in to the security system website.
- (c) Custom Report: This provides the capability to create custom reports of personnel data. A graphic interface provides the user with the ability to interactively create and save reports for later use. Parameters can be inserted into reports to prompt for data input at report runtime. Report results can be printed, output to a PDF file or put into a spreadsheet
- (d) Occupancy: Displays a list of defined regions with the number of people currently occupying each region and the maximum number of occupants allowed, if a maximum has been specified.

- (e) Photo ID Gallery: Displays all the photo ID pictures in the system and the person's name.
- (f) Photo ID Requests: Displays all outstanding badge print requests and lists ID, name, badge layout, activation date, request date.
- (g) Portal Access: Lists people with access for a selected portal.
- (h) Roll Call: Allows you to select a defined Region from the drop-down and see a list of people currently in that region.
- (i) Roster: Displays every person entered into the system and it lists name, ID photo, expiration date, username, and access level.
- (j) Time Specifications: Displays all defined time specifications currently in the system.
- y) Administration: The security management system shall provide for the performance of system administration tasks from any network-connected computer with a browser. Most of the administrative, maintenance, and configuration utilities and functions shall require a security management system user with at least a "Setup" user role. Information from the network administrator shall, in many cases, also be required. These administrative tasks shall include but not be limited to:

(1) Database backups:

- (a) The system shall create database, or full system data backups, each night at 00:15 hours. These backups shall be stored in ROM and compact flash onboard the solid-state network controller, and written to the drive on the disk-based controller.
- (b) Backups shall also be written to network attached storage (NAS) or an FTP server if such storage has been configured in the system.
- (c) It shall also be possible for the system users to create such database backups at any time. Any database backups onboard the network controller may also be downloaded to off board storage by the system user at any time.

(2) System restore:

- (a) The system shall be able to restore its database, or the full system data, from a backup. Restoration of the system shall only be possible from a backup copy onboard the network controller. It shall, therefore, be possible to upload a copy of a database backup from any network attached storage.
- (b) It shall be possible to review backups by date and description and select the desired backup for upload to the network controller or restoration as the current system database.

(3) Software updates:

(a) Software updates, upgrades and patches shall be provided from time to time. The system shall be able to update its software from these .tgz files. Update of the application software shall only be possible from an update file onboard the network controller. It shall, therefore, be possible to upload a copy of the

- software update from any network attached storage or from any PC drive or desktop.
- (b) Software updates may involve the network controller only or may include updates for the node(s) also. The monitoring of the security system may be unavailable for several minutes during this process.
- (4) File cleanup: A utility shall be provided to assist in file cleanup. This utility will display for review and deletion all floorplan jpeg files, photo IDs, database backups, badge layouts, and software updates.
- (5) File upload: The system shall support uploads of files for use in and with the system. Files which shall be uploadable include:
 - (a) Floorplans in jpg format
 - (b) Badge layouts
 - (c) ID photos in jpg format
 - (d) Database backups
 - (e) Software license files
 - (f) software updates
 - (g) Threat level icons in jpg format
 - (h) Sound files (.wav) for use in event alerts
- (6) Setting system time, time zones, and time servers:
 - (a) The system shall support the setting of time zones by selection off of a drop down pick list. Time zones shall be separately settable for the controller and for each node or MicroNode in the system. An extensive list of world-wide time zones shall be provided. Adjustments for daylight saving time (summer time) shall be automatic.
 - (b) The system shall support the use of network time servers. Up to three time servers can be designated. Use of a network time server ensures that the network controller and its nodes will be regularly synchronized with the exact time used by all other network resources.
 - (c) It shall also be possible to manually set the system date and time.
- (7) Changing passwords:
 - (a) Person data maintained in the system may also contain a user name and password for logging on to the security application website as a system user. The system shall support the changing of administrator passwords. It shall be required to enter the password twice for verification purposes. Passwords may contain neither double-quote (") nor single-quote (") characters.

- (b) It shall also be possible to integrate an LDAP server for single-user logon authentication. This will reference the LDAP-stored password for use by the system.
- (8) Issuing and revoking cards (credentials):
 - (a) Access cards shall be assignable by the system user either by entering card data directly into the person record or by use of an enrollment reader. Access levels shall be assignable through the user interface by selection from a drop-down list.
 - (b) Access cards shall be revocable at any time. A system user holding at least the Administer user role may perform this action. Revoked cards shall stop functioning immediately.
- (9) Enrolling new people: All person data entered into the system shall be held in the system database and shall be available only to system users holding at least the Administer user role. Person data can be added, deleted, and edited by such system users.
- (10) Creating Photo IDs: The system shall include an integrated photo ID function. It shall be possible:
 - (a) To design badge layouts,
 - (b) To upload badge layouts for badge printing,
 - (c) To capture ID photo images, print badges, and delete uploaded badge layouts.
 - (d) For the system user to manage all photo ID functions entirely from within the browser

(11) Generating reports:

- (a) The system shall be capable of producing a variety of predefined reports regarding software and security hardware configuration, event history, and the administration of people within the system.
- (b) Alternatively, the system shall support a graphic interface for interactively building custom reports from either historical or personnel data. These reports shall be savable for later reuse. Parameters can be inserted into reports to prompt for data input at report runtime. Report results can be printed, output to a pdf file or put into a spreadsheet.
- (c) It shall also be possible to group reports for assignment to custom user roles. Any reports not grouped and assigned to a custom user role shall not be viewable by that system user.
- (d) A system user holding 'Administrator' permissions shall be able to view and create reports.
- (12) Configuring network resources:
 - (a) LDAP: It shall be possible to configure an LDAP server for directory services and single-user login. This will reference the LDAP-stored password for use by the system.

- (b) DNS: The system shall support setting IP addresses for up to two domain name servers.
- (c) Email settings: The system shall support the use of email notifications of alarm events. The system user must setup the email server IP address or DNS name and the email address of the network controller. A network administrator must setup the network mail server to relay email for the IP address of the network controller.
- (d) File transfer protocol (FTP): The system shall support the use of an FTP Server for backups. Once configured, backups are automatically saved to the FTP server each night.
- (e) NAS: The system shall support the use of network attached storage devices for backups. The network administrator must create a domain user account for the network controller and a password. The system user must configure the network attached storage in the system including the domain name, server IP address, share name, and the directory where the network controller may store data.
- (f) Time Servers: The system shall support the use of network time servers. Up to three time servers can be designated. Use of a network time server ensures that the network controller and its nodes will be regularly synchronized with the exact time used by all other network resources.
- (g) A system user holding 'Setup' permissions shall be able to configure network resources.

Video Management Integration

- i) General: The security management system shall support the integration of Digital Video Recorders (DVR) supporting analog video cameras and Network Video Recorders (NVR). This integration shall allow the viewing of live streaming video in the browser interface and recorded video playback. Viewing live streaming video shall require the JavaTM 2 Runtime Environment version 1.4.2 or version 5.0.
 - (1) Events in the alarm subsystem can initiate video recording. Video motion detection, camera up and camera down messages from the VMS can initiate alarms.
 - (2) It shall be possible to monitor DVR and NVR cameras in the same views as IP cameras. VMS events shall be logged in the system activity log. It shall be possible to view recorded video of events from the Activity Log.
- ii) Integrated DVR/NVR Systems:
 - (1) Dedicated Micros DVR DS2 or DV-IP
 - (2) exacq exacq Vision
 - (3) JVC VR900
 - (4) Milestone Systems XProtect Enterprise, XProtect Professional, XProtect Corporate
 - (5) OnSSI NetDVMS, NetDVR

- (6) Panasonic Digital Disk Recorder WJ-HD309a, WJ-HD316a
- (7) Salient Systems CompleteView NVR
- (8) Vicon ViconNet
- ii) OVID: Open Video Interface API:
 - (1) This specification defines an API to implement the integration of video surveillance systems with the security management system.
 - (2) The OVID API shall allow users to monitor and control one or more video servers along with their associated video cameras, to augment the physical security devices (door locks, card readers, etc.) controlled by the security management system.
 - (3) The integrated system shall be controlled through a web browser user interface which presents an integrated view of both the security management system and the video surveillance system.
- iii) LDAP: It shall be possible to configure and Active Directory Server with the security management system.
 - (1) This shall provide single user-login capability.
 - (2) Password rules and authentication will be governed by the LDAP server.

Mercury Hardware Integration

- i) The system shall support the integration of access control hardware from Mercury Security Corp.
- ii) The following Mercury hardware components shall work with the controller:
 - (1) Supported Mercury Panels:
 - (a) EP2500: Intelligent Controller: 32 MB RAM, Ethernet
 - (b) EP1502: Intelligent Dual Reader Controller: 16 MB RAM, Ethernet, 2 readers (magnetic stripe or Wiegand) 8 inputs, 4 relays
 - (c) EP1501: Intelligent Single Door Controller: PoE, single door, 2 readers, 2 inputs, 2 outputs
 - (2) Supported Mercury Interface Boards (SIOs)::
 - (a) MR-50 Reader Interface Module: 1 reader (magnetic stripe or Wiegand), 2 inputs, 2 relays
 - (b) MR-52 Reader Interface Module: 2 readers (magnetic stripe or Wiegand), 8 inputs, 6 relays
 - (c) MR-16in Input Monitor Module: 16 inputs (zones), 2 relays
 - (d) MR-16out: Relay Output Control Module: 16 relays

Otis Elevator Compass™ System Integration

- i) The system shall support the integration of the Otis Elevator Compass™ Destination Entry System with the security management system. The Compass system is designed to optimize the use of elevators in large office buildings.
 - (1) The boundary between the Compass network and the security management system network is a Layer 3 switch. This switch routes two-way data traffic between the controller and the Compass nodes, using the TCP/IP networking protocol.
 - (2) The controller acts as the central processor for the security system. A single controller can supervise the operation of many nodes. It also manages all communication between the security management system and the Compass system.
 - (3) The Network Node is a peripheral processor which handles building security hardware such as card readers. A node can control many readers.
 - (4) Once the system has been initialized to support an interface to the Compass system, standard security management system configuration pages can be used to configure the Compass system:
 - (a) The Status page lets users view the Compass IP network configuration information, such as node status.
 - (b) The Floor Map page lets users configure the floor mapping needed to identify the building floors by name and floor.
 - (c) The Configuration page lets users configure the destination entry server (DES) nodes, destination entry director (DER) nodes, and destination entry computer (DEC) nodes in the Compass system.
 - (d) The Events page lets users view the IP address, name, node type, and status of each node in the Compass system.
 - (e) The Reader Groups and Access Levels pages let users configure reader groups and their associated access levels within the Compass system.

Remote Lockset Integration

The system shall support the integration of ASSA ABLOY Wi-Fi enabled locksets (models vS2 and pS2) with the security management system.

- i) Once a lockset is installed and registered with the controller, it appears in the security application as a "Remote Lockset" node, which can be enabled and configured to work with the controller.
- ii) It shall be possible to set configuration options for a remote lockset to change its call-in and lockout behaviors.
- iii) It shall be possible to configure the reader and portal that were automatically created for a remote lockset.

- iv) It shall be possible to view cached information for a remote lockset, for troubleshooting purposes.
- v) It shall be possible to specify special-use formats for access cards to be used with remote locksets.
- vi) The remote lockset shall be able to send high priority events to the controller.
- vii) The remote lockset shall update the controller with the current voltage level of its battery upon each connection.
- viii) It shall be possible to schedule an automatic unlock period for remote-lockset portals. The start of this period can be triggered by time or by an initial valid card read.

API Integration

An Application Programming Interface (API) is provided for the security management system. The API provides programmatic access to the network-connected components managed by the security management system.

- Communication between the security management system and another application takes place through the TCP/IP networking protocol. The API is invoked by POSTing an HTTP message to the web server on the network controller.
- ii) The security management system database includes a table of "people" whose records act as container objects for attributes attached to people in real life. People are mapped to access levels, which specify access privileges—and to access cards, whose credentials are used for access control.
- iii) Access levels are entered into the system using the normal web user interface for the security management system. People and credentials may be entered into the system either through the web user interface or through the API.
- iv) The API supports commands for:
 - a) Adding, modifying, removing, and retrieving data about a person, and retrieving information about one or more people based on various search criteria.
 - b) Adding, modifying, and removing credentials, and retrieving a list of the names of defined card formats.
 - c) Adding, modifying, and deleting access levels, and retrieving a list of the valid access levels in the system.
 - d) Pinging the security management system to determine its health, and retrieving the current version of the API from the server.
 - e) Retrieving a history of access activity, either for all users or for a particular access card.
 - f) Adding, modifying, and removing threat levels and threat level groups, and setting the threat level in the system.

- g) Retrieving a list of portals and associated card readers defined for the security management system.
- h) Adding, modifying, deleting, and retrieving time specifications and time specification groups.
- i) Adding, modifying, and deleting holidays, and returning a list of holiday keys or a specific holiday.
- j) Adding, modifying, deleting readers and reader groups, and returning a list of reader group keys or information for a specific reader group.
- k) Adding, modifying, and deleting portals and portal groups, and retrieving information about a specific portal group.
- 1) Requesting events from the Activity Log that occurred within a specified time period. These events are returned from the API in the CSV Export report format.

Certifications

- i) UL 294 listed or as listed by a national recognized testing agency to meet the requirements of State of Oregon Electrical Code.
- ii) ISO 9000 listed.

Card Reader and Credential Specifications

- i) HID iClass card readers will be utilized for this installation.
- ii) Qty of 1000 HID 200x iClass Credential card stock will be required for this installation.

Pricing Schedule

State Initial Warranty Period of Proposed Equipment & Software:

VMS: One Year
ACS: One Year

System Pricing	
	<u>Pricing</u>
SOC Console Pricing	\$ 67,738.00
VMS System Pricing	\$152,484.00
ACS System Pricing (Addressed in Alternate 18)	\$ 77,490.00

Alternates Camera Options		
CAMERAS	<u>Pricing</u>	
Alternate 1 – New Camera 2 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 2,772.00	
Alternate 2 - New Camera 3 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 2,953.00	
Alternate 3 – New Camera 4 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 2,933.00	
Alternate 4 – New Camera 5 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 2,933.00	
Alternate 5 - New Camera 7 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 2,752.00	
Alternate 6 – New Camera 8 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 3,060.00	
Alternate 8 - New Camera 10 with LS Channel License & "Current" prorated to 2/7/2015 Total System Installed Price	\$ 2,999.00	

Alternates Camera Options - Continued	
Alternate 9 – New Camera 11 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 3,008.00
Alternate 11 – New Camera 13 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 2,786.00
Alternate 12 – New Camera 14 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 2,933.00
Alternate 13 – New Camera 15 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 2,933.00
Alternate 14 – New Camera 19 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 2,792.00
Alternate 15 – New Camera 23 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 2,417.00
Alternate 16 – New Camera 25 with LS Channel License & "Current" prorated to 2/7/2015	
Total System Installed Price	\$ 3,008.00

Alternate Card Reader Options		
	<u>Pricing</u>	
Alternate 18 – Provide S2-EXT-32-RM Netbox Extreme Controller with OnSSI Occularis "LS" API and other ACS equipment required to replace existing Diamond II ACS. Total System Installed Price including 1-yr SUP	\$ 77,490.00	
Total System Installed Price	\$337,997.00	

Line Item Equipment Pricing of Components	
<u>Item</u>	<u>Pricing</u>
ACS Intelligent Reader Mercury Controller S2-EP-2500	\$1,460.00
ACS 16 Input Module S2-MR-16 IN	\$ 567.00
ACS 16 Output Module S2-MR-16 OUT	\$ 567.00
MR50 Reader Interface Module/1 Reader S2-MR-50	\$ 260.00
8-Port Multi Device Interface Panel S2-MUX-8	\$ 470.00
HID iClass SE RP10 Mullion Reader	\$ 124.00
HID iClass SE RP40 Wall Switch Reader	\$ 202.00
HID iClass SE RPK 40 Wall Switch with Key Pad Reader	\$ 325.00
1000 HID iCLASS SE photo printable ID badge card stock/ Model 300	\$2,910.00
1.3 MP Sony SNC DH160 Interior Mini Dome IP Camera	\$ 781.00
3.0 MP Sony SNC DH260 Dome IP Camera w/IR	\$ 951.00
3.0 MP Sony SNC DH240T Dome IP Camera Wide Dynamic	\$1,602.00
1.0 MP AXIS P3354 Indoor Dome camera	\$ 560.00
1.0 MP AXIS M3006-V Wide Angle Lens	\$ 466.00
1.0 MP Sony SNC-EP 550 340° PTZ w/28x, UNI WMB3 & UNI-INL7C2 enclosure.	\$2,177.00
OnSSI Occularis LS base Server License	\$2,403.00
OnSSI Occularis LS Camera Channel License	\$ 283.00
OnSSI Occularis Camera Channel License software upgrade plan "CURRENT" —1yr	\$ 57.00
OnSSI Occularis Camera Channel License software upgrade plan "CURRENT"—3yr	\$ 121.00
ACS Software Upgrade Plan for 1-year	\$ 600.00
ACS Software Upgrade Plan for 3-years	\$1,530.00

2.6 Contractor's Labor Rates

<u>Positions</u>	Rate/Hr
Project Manager	\$ 96.00
CAD Drafting Technician	\$ 85.00
Cable Technician	\$ 90.00
Equipment Installation Technician	\$ 90.00
Engineering Technician	\$ 96.00
Training Technician	\$ 90.00
Service Technician	\$114.00

CONFIDENTIALITY AGREEMENT

THIS CONFIDENTIALITY AGREEMENT ("Confidentiality Agreement") is made effective as of the last date of signature below (the "Effective Date"), by and between the Metropolitan Exposition Recreation Commission, an appointed commission of Metro, a metropolitan service district established pursuant to Oregon law and the Metro Charter, whose address is 600 NE Grand Avenue, Portland, _, referred to herein as "Contractor" located at Oregon, 97232, ("MERC"), and (MUCGINT 7678 SW MOHAWK ST

TURLATIN OR 97067

BACKGROUND

- Under Metro Request For Bids No. RP 2519, MERC is seeking bids from qualified firms to A. provide security equipment for the Oregon Convention Center ("OCC");
- В. MERC wishes to make available certain information regarding the security design at OCC to Contractor, but only with certain safeguards to protect against unnecessary or inadvertent disclosure;
- C. The parties enter into this Confidentiality Agreement to protect the confidentiality of certain information as set forth herein and to prevent the unauthorized disclosure of such information as further described below.

AGREEMENT

NOW THEREFORE, the parties agree as follows:

- From the Effective Date of this Confidentiality Agreement and all times thereafter, Contractor and its employees, agents, independent contractors, officers and directors, and successors and assigns, to the extent not prohibited by law, shall keep in confidence and not disclose the OCC Integrated Security Design ("the Confidential Information") to any person or entity; except that the Contractor may disclose the Confidential Information:
 - Upon MERC's prior written consent; a.
 - In response to a valid order of any court, or a demand or request for information from a b. government agency made pursuant to the agency's duly vested powers or authority to do so;
 - In response to a properly served, valid and unchallenged subpoena, notice of deposition, c. or other discovery request;
 - d. Pursuant to any resolution, order, or determination of MERC that such disclosure is in the public interest; and
 - As otherwise required by law. e.
- 2. The parties to this Confidentiality Agreement shall notify one another in writing of any subpoena, notice of deposition, discovery request, demand, or order described in Paragraph 2.b. or c. within seven (7) days of receiving such notice.

- 3. Contractor shall restrict the transmittal of the knowledge and the substance obtained to its respective officers, directors, agents, independent contractors, employees and attorneys who are directly connected with the Bid and who require such information. Contractor shall take reasonable actions to ensure that all such persons and their employees, agents, independent contractors, officers and directors, and successors and assigns do not disclose any information, using the same level of care to preserve the Confidential Information that Contractor would accord to its own most confidential information. Once Notice of Award of the Bid for this work goes out to all Bidders, Contractor will immediately destroy the Confidential Information if Contractor was not the successful Bidder on the project.
- 4. Any notice required or permitted under this Confidentiality Agreement shall be (a) in writing, (b) dated as of the date delivered or sent, and (c) delivered in person or by messenger, or sent by facsimile with proof of receipt by addressee or by Federal Express or a similar overnight delivery service, or by United States certified mail, return receipt requested, postage prepaid. The address and facsimile numbers for each party are as follows:

MERC:

MERC

Attn: Nathan A.S. Sykes Office of Metro Attorney 600 NE Grand Avenue

Portland, Oregon 97232-2736 Telephone: (503) 797-1544 Facsimile: (503) 797-1792

Contractor:

CANVERGII 7678 SH TUALATIN	VI TECH	MOLOGIES
7678 54	Mount	WK 57,
TUALATIN	DR	77067
		F-F

- 5. Any party may at any time change its address for notice purposes by giving notice in accordance with this paragraph. Notices shall be deemed given and received on the date of delivery, if delivered in person or by messenger; on the date of receipt if sent by facsimile or through an overnight delivery service; or two (2) days (excluding Sundays and legal holidays) after the date of mailing, if mailed.
- 6. This Confidentiality Agreement shall be binding upon and inure to the benefit of the parties' successors and assigns.
- 7. This Confidentiality Agreement shall be governed by and construed under the laws of Oregon.

CONTRACTOR	METRO
By: 1 AMbly Lat	By: G. Shents
Title: GENERAL MANAGER	Title: Procurement Manager
Date: 7/24/14	Date: 7/24/14

Materials following this page are attachments to the public record.



EXPANDING OPPORTUNITY THROUGH CONTRACTING

Minority, Women, Emerging Small Business and First Opportunity Target Area Report

2013-2014 MWESB ANNUAL REPORT





Why Does

Diversity in Contracting Matter?

Positive results for the region:

- Helps expand economic opportunities
- Builds capacity of local MWESB firms
- Increases competition and adds different perspectives



Outreach and Training Efforts

In the last year, Metro has improved procurement procedures by:

- Completing Procurement Enhancement Project (PEP) Phase 1
- Using the Oregon Procurement Information Network (ORPIN)
- Updating MWESB utilization reporting method
- Continuing training for Metro staff
- Increasing project manager involvement in MWESB outreach
- Hosting the MWESB Open House



Expanding MWESB

Outreach and Training Efforts







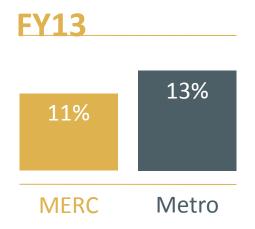
Discover What Works **Survey and Focus Group**

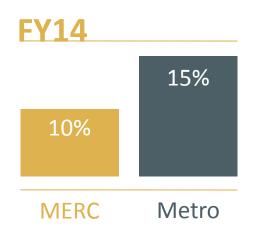
What did we learn?

- **Issue #1:** Complex public procurement process and forms
- **Issue #2:** Knowing the right people
- Issue #3: Large projects designed for large firms



Contract Dollars **Awarded to MWESB Firms**

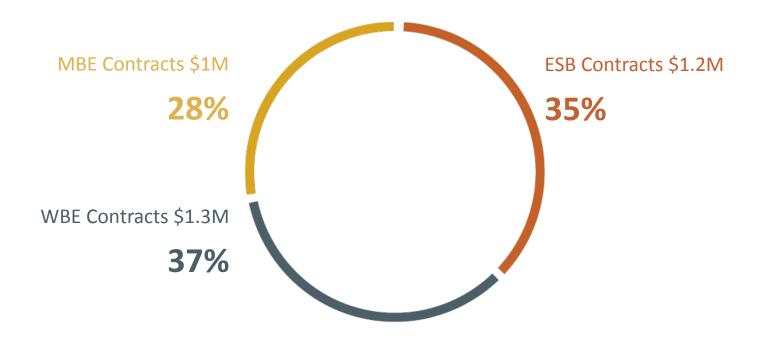






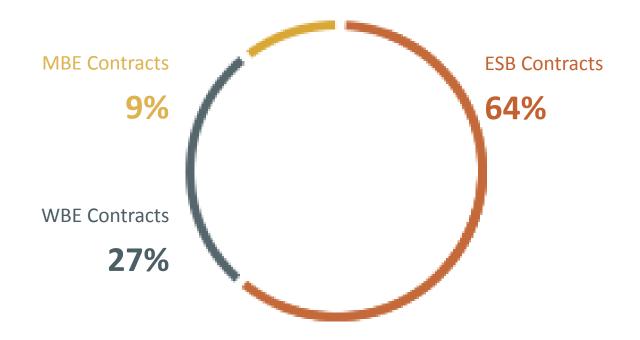
FY14

Metro Awarded Dollars



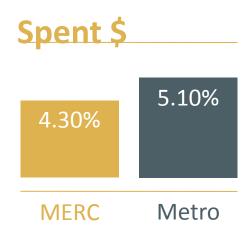


FY14 MERC Awarded Dollars





Spent Dollars **Earned by MWESB Firms**





Case Study: Portland'5

Total P'5 contract value: \$1,880,299

Contract \$ awarded to MWESB: \$342,698

Utilization rate: 18%





Continuing to Create Economic Opportunity

In the coming year, Metro will build upon efforts to create connections to MWESB firms and increase participation in Metro projects. Initiatives include:

- MWESB Open House February 2015
- Quarterly workshops
- MWESB Program Update
- Revised solicitation and contracting forms



Questions?

