

Key Quantity and Metrics List

Trade	Quantity	WBS Code (2.2)	Description of Quantity		[Project Name]																Project Totals													
				MMR Notes	DC-1	DC-2	DC-3	DC-4	SSB-1	SSB-2	SSB-3	SSB-4	Campus-1	Campus-2	Campus-3	Campus-4	DC-1	DC-2	DC-3	DC-4	SSB-1	SSB-2	SSB-3	SSB-4	Campus-1	Campus-2	Campus-3	Campus-4	Total	Unit				
General Info	Total MW	n/a	What is the total megawattage?																										0	MW				
	Total Gross Floor Area	n/a	What is the total gross floor area?																										0	SF				
	Total Site Area	n/a	What is the total site area in acres?																										0	ACRES				
General Conditions	Total Labor Hours (Staff)	301.000	What is the total of labor hours?																										0	Hours				
	Average Labor Months	301.000	What is the average monthly labor hour count?																										0	Hours				
	Average Headcount per Month	301.000	What is the average headcount per month?																										0	Headcount				
	Preconstruction Duration in Months - (start of preconstruction to break ground)	301.000	What is the preconstruction duration?																										0	Months				
	Overall Construction Duration in Months - (break ground from completion of commissioning)	301.000	What is the overall construction duration (break ground to end of commissioning)?																										0	Months				
	Overall Construction Duration Months - (first concrete/foundation start to end of commissioning)	301.000	What is the overall construction duration (foundation start to end of commissioning)?																										0	Months				
	CY of Total Earthwork (inclusive of soil, rock, etc.)	302.000	What is the total 'CY' of total Earthwork, inclusive of soil, rock, etc.?																										0	CY				
Site Work	CY of Rock Excavation	302.000	What is the total 'CY' of rock excavation?																										0	CY				
	CY of Excavation - Site MV Ductbanks		What is the total 'CY' of total Earthwork																										0	CY				
	CY of Excavation - Site LV Ductbanks		What is the total 'CY' of total Earthwork																										0	CY				
	CY of Excavation - Site Telecom - IT Ductbanks		What is the total 'CY' of total Earthwork																										0	CY				
	LF Domestic Water Supply	302.300.301	What is the total linear feet of domestic site water supply?																										0	LF				
	LF Fire Service	302.300.302	What is the total linear feet of site fire service?																										0	LF				
	LF Process Water	302.300.303	What is the total linear feet of site process water?																										0	LF				
	LF Sanitary Sewer	302.300.304	What is the total linear feet of site wet sanitary sewer?																										0	LF				
	LF Process Waste	302.300.305	What is the total linear feet of site process waste?																										0	LF				
	LF Storm Drainage	302.300.306	What is the total linear feet of site storm drainage?																										0	LF				
	Total SF of Landscaping	302.500.501	What is the total square footage of landscaping (planting, seeding, shrubs, trees, etc.)?																										0	SF				
	Total SF of Permanent Hardscape	302.500.502	What is the total square footage of hardscape (paving, roads, concrete sidewalks, etc.)?																										0	SF				
	Asphalt Paving	302.500.502	What is the total square yards of asphalt (paving, roads, sidewalks, etc.)?																										0	SF				
	Concrete Paving & Exterior Flatwork	302.500.502	What is the total square footage of concrete exterior flatwork (paving, roads, concrete sidewalks, etc.)?																										0	SF				
	Gravel Yard & Drive	302.500.502	What is the total square yards of gravel permanent surface (drives, yards etc.)?																										0	SF				
	Curb and Gutter	302.500.502	What is the total linear feet of curb and gutter?																										0	LF				
	Total SF of Temporary Site Logistics	302.600.403	What is the total square footage of temporary site logistics (temporary paving, etc.)?																										0	SF				
	Total LF of Perimeter Fence	302.400.403	What is the total linear feet of Perimeter Fence?																										0	LF				
	Sub and Super Structure	Laboratory Total LF of Foundation/Slab/Beam/Column/Mechanical Vault Slab & Environment Curbs	304.200.201	What is the total cubic yards of concrete used for foundation, etc.?																									0	CY				
		Concrete Total CY (Slab on Metal Deck/Curbs/Pads/Treads)	304.100.102	What is the total cubic yards of concrete used for slab on metal deck, curbs, pads, treads?																									0	CY				
		Total tonnage of joists	304.200.202	What is the total tonnage of joists - include fittings and accessories?																									0	Ton				
		Total tonnage of W members and HSS	304.200.201	What is the total tonnage of W members and HSS - include fittings and accessories?																									0	Ton				
		Total tonnage of Structural Steel	304.200.201	What is the total tonnage of structure steel (joists + W members/HSS)																									0	Ton				
Metal Deck Total SF		304.600.603	What is the total square footage of metal deck - roof and floor decks?																									0	SF					
Total Exterior Glazing SF		304.600.608	What is the total square footage of exterior glazing?																									0	SF					
Total Precast Wall SF		304.600.602	What is the total square footage of precast wall area?																									0	SF					
Total Metal Wall Panel or Other Panelized Systems SF		304.600.603	What is the total square footage of metal wall panels or other panelized systems?																									0	SF					
Total Exterior Wall Area SF		304.600	What is the total square footage of exterior wall area?																									0	SF					
Total Roof Area SF		304.600.604	What is the total roof area square footage?																									0	SF					
Interior Construction		Total Interior Wall Partitions SF	305.200.201	What is the total square footage of interior wall partitions?																									0	SF				
	Total Interior Glazing SF	305.200.202	What is the total square footage of interior glazing?																									0	SF					
	Total Interior Door Sets	305.100.101	What is the total number of interior door sets?																									0	Each					
	Number of passenger elevators	305.800.801	What is the total number of passenger elevators?																									0	Each					
	Number of freight elevators	305.800.801	What is the total number of freight elevators?																									0	Each					
	Linear footage of hot air containment aisles	305.600.601	What is the total linear footage of hot air containment aisles?																									0	LF					
	Number of aisles	305.600.601	What is the total number of hot air containment aisles?																									0	Each					
Plumbing and HVAC	Subcontractor		Mechanical Subcontractor		Primary Subcontractor								Secondary Contractor (Remaining Contractor(s) Impacting the Trade)								Project Totals													
	Total Labor Hours for Mechanical Work (Direct)	315.100.101	What is the total labor hours for direct mechanical + HVAC work?																										0	Hours				
	Total Labor Hours for Plumbing Work (Direct)	315.100.101	What is the total labor hours for direct plumbing work?																										0	Hours				
	Project Staffing Labor Hours for Mechanical Work (Indirect)	315.101.101	What is the total general conditions/management hours for indirect mechanical + HVAC work?																										0	Hours				
	Project Staffing Labor Hours for Plumbing Work (Indirect)	315.101.101	What is the total general conditions/management hours for indirect plumbing work?																										0	Hours				
	Composite Labor Rate (Mechanical)	315	Composite Labor Rate (Mechanical)																										\$/HR					
	Composite Labor Rate (Plumbing)	315	Composite Labor Rate (Plumbing)																										\$/HR					
	Number of Plumbing Fixtures	315.200.203	What is the total number of plumbing fixtures (ex. WCs, sinks, lavs, showers, urinals, chem showers)																									0	Each					
	LF of Sanitary System	315.200.202	What is total length of sanitary system piping (excl condensate drainage)?																									0	LF					
	LF of Domestic Water Piping	315.200.202	What is the total length of domestic water piping?																									0	LF					
	LF of Condenser Water Piping	315.400.402	What is the total length of condenser water piping?																									0	LF					
	LF of Refrigerant Piping	315.400.404	What is the total length of refrigerant piping?																									0	LF					
	LF of Facility Water Piping	315.300.304	What is the total length of facility water piping (ex. chilled water)?																									0	LF					
	LF of Technical Water Piping	315.300.305	What is the total length of technical water piping?																									0	LF					
LF of Fire Protection Pipe	315.800.801	What is the total length of fire protection pipe without flex pipe?																									0	LF						
BMS	Pounds of Sheet Metal Ductwork	315.500.504	What is the total poundage of sheet metal ductwork?																									0	LBs					
	Total control points for BMS	320	What is the total number of control points in BMS?																									0	Points					
Commissioning hours for BMS	320	What is the total number of commissioning hours for BMS?																										0	Hours					
	Subcontractor		Electrical Subcontractor		Main Contractor								Secondary Contractor (Remaining Contractor(s) Impacting the Trade)								Project Totals													
	Total Labor Hours for Electrical Work (Direct)	316.100.101	What is the total labor hours for direct electrical work (ex. field labor, excludes project staffing management)?	Includes craft + non-working foreman. Excludes warehouseman, laborers, spotters, etc.	567,079																								567,079	Hours				
	Project Staffing Labor Hours for Electrical Work (Indirect)	316.100.101	What is the total general conditions/management hours for indirect electrical work?	Includes all staff hours + General Foreman. Excludes warehouseman, laborers, spotters, etc.	274,294																								274,294	Hours				
	Total hours of commissioning	316.100.104	What is the total hours of commissioning?		80,709																								80,709	Hours				
	Composite Labor Rate (Electrical)	316	Composite Labor Rate (Electrical)	TBD																									\$/HR					
	LF of Rack Bus	316.700.711	What is the total linear feet of rack bus?	By FSH4C or LV Skid MOFE	0					0																		0	LF					
	LF Cable Tray	316.800.802	What is the total linear feet of cable tray?	Includes Tray as shown on the Technology Drawings Sets, including OFCI bridge tray between FSH4CS	60,149					1,285																			61,434	LF				
	Quantity of Light Fixtures	316.700.716	What is the total quantity of light fixtures (ex. one count per fixture regardless of size or length)		1,088					237																			1,325	Each				
	Quantity of Lighting Control Devices	316.700.716	What is the total quantity of Lighting Control devices		232					81																			313	Each				
Quantity of Receptacles (Branch Power Devices)	316.700.712	What is the total quantity of receptacles (branch power devices)?		1,059					215																			1,274	Each					

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Trade	Quantity	WBS Code (2.2)	Description of Quantity	[Project Name]																																												
				MMR Notes	Primary Subcontractor														Secondary Contractor (Remaining Contractor(s) Impacting the Trade)												Project Totals												Total	Unit				
					DC-1	DC-2	DC-3	DC-4	SSB-1	SSB-2	SSB-3	SSB-4	Campus-1	Campus-2	Campus-3	Campus-4	DC-1	DC-2	DC-3	DC-4	SSB-1	SSB-2	SSB-3	SSB-4	Campus-1	Campus-2	Campus-3	Campus-4	DC-1	DC-2	DC-3	DC-4	SSB-1	SSB-2	SSB-3	SSB-4	Campus-1	Campus-2	Campus-3	Campus-4								
Electrical	Quantity of Mechanical Connections	316.700.712	What is the total quantity of mechanical connections? (Ex. AHU, FCA, CDU, Fans, Heaters, Etc.)	Includes Connections to VAV's, CDUs, FC Whips, CRAC's, HUM's, UHE's, EFL's, etc.	2,133					25																																			2,158	Each		
	CY of Concrete Site MV Ductbanks	316.300.304 & 316.600	What is the total cubic yards of concrete used in MV duct banks (ex. underground encasement, Incoming Feeder Substation through MVS to PTX)?	4160V mCUP PTX to MSG only.	87																																									87	CY	
	CY of Concrete Site LV Ductbanks	316.700	What is the total cubic yards of concrete used in LV duct banks (ex. underground encasement, Scope after PTX)?	G58 to SSB ATS only. G58 to DH ATS & G58 to EG / LB Ductbanks to be by Mortenson.	31																																									31	CY	
	CY of Concrete Site Telecom - IT Ductbanks	316.400.401	What is the total cubic yards of concrete used in telecom duct banks (ex. underground encasement)?	N/A																																										0	CY	
	LF of Copper Wiring - MV (Above 600V)	316.300.304 & 316.600	What is the total linear feet of copper wiring? Incoming Feeder Substation through MVS to PTX.	TBD	6,090					0																																				6,090	LF	
	LF of Copper Wiring - LV (600V-120V)	316.700	What is the total linear feet of copper wiring? Scope after PTX.	Includes all cable from One-lines and Panel Schedules, & Grounding Drawings.	1,903,063					94,105																																				1,997,168	LF	
	LF of Copper Wiring - LV (119V and Below)	316.700	Fire Alarm, Lighting Controls, ETC	Includes Cat5 Cable for Lighting Controls only. MMR has included an allowance for the Fire Alarm System.	11,600					2,025																																				13,625	LF	
	LF of Copper Wiring - Temp Power	316.200.201	What is the total linear feet of copper wiring?																																											0	LF	
	LF of Conduit (Electrical Power) - MV (Above 600V)	316.300.304 & 316.600	What is the total linear feet of conduit? Incoming feeder Substation through MVS to PTX.	4160V mCUP PTX to MSG only.	1,430					0																																					1,430	LF
	LF of Conduit (Electrical Power) - LV (600V-120V)	316.700	What is the total linear feet of conduit? Scope after PTX.	Includes all conduit (PVC, HDPE, & FRP) from one-lines and Panel Schedules including mCUP Scope Conduit.	413,315					13,350																																					426,665	LF
LF of Conduit (Electrical Power) - LV (119V and Below)	316.700	Fire Alarm, Lighting Controls, ETC	MMR has included an allowance for the Fire Alarm System.																																										0	LF		
LF of Conduit (Telecom)	316.400.401	What is the total linear feet of conduit?	Includes Door & Camera Conduit for Rough-ins.	9,418					20																																						9,438	LF
NECA Productivity Rate			What is the NECA productivity rate?																																													Rate