

Replacement Medical Center Facility

Eastern Colorado Health Care System

Aurora, CO

Revised Feb. 1, 2012

(Better)

Worse

VE #	Proposed VE Item	Proposer	Trade (s)	Building?	Target Cost Impact	Actual Cost	Variance from Target	Acceptance	Action Item	Responsible Party	JVT Comments 7-14-2011	Included in DOC #6 CS-1 IFO-3	Included in DOC #7 IFO-1	Remarks (Nov 4, 2011)		
VE-1	Brise Soleil - Except for clinics, remove one of three brise soleil 8,160 L.F. @ \$230 LF (savings of \$70 LF)	KT	Glass	CON	(258,400)	(127,332)	131,068	A	VA TO VET THE IMPACT ON THE HEAT GAIN/LOSS-som to share sun study w/ VA		JVT will revise. K-T to revise scope to be IBN, IBS, DAT, not CON.	JVT	CS-1 (95% CD 8/19/2011)	YES	n/a	Completed
VE-2	For Zig Zag wall and South portion of CC curtainwall, use interior metal panels (e.g. Alpolic composite panels) in lieu of acoustical perforated wood panels.	KT	Glass	CON	(1,968,000)	(1,811,292)	156,708	A	KT to review new drawings being issued by JVT.	JVT & KT	These revisions were issued as part of the 6/24 DD2 documents. KT to verify pricing accordingly. No Further JVT work on this item.	KT	6/24DD2 Set, CS-1 (95% CD 8/19/2011)	YES	n/a	Completed
VE-3	High level Trellis - Delete openings & convert to flat overhang.	KT	Steel	3,4,5,7,8,9	(440,000)			- A	CHECK WATT OUTPUT WITH GARAGE TRELIS		JVT will update for IBN, IBS, DAT, CBN,CBC only. Not the CON bldg.	JVT	STR-2 (100% CD, TBD) & CS-1 (95% CD 8/19/2011)	NO	NO	
VE-4	Delete the BIPV at PVN and PVS. This is based upon replacement of BIPV with PV, which provides higher output per SF, at building eyebrows. This eliminates the need for BIPV at garages to meet the required 12% renewable energy contribution to electrical consumption	KT	PV	PVN, PVS	(1,500,000)			- A	CHECK WATT OUTPUT WITH GARAGE TRELIS	Highly dependent on BIPV S/Watt. Eyebrows are approx. 26,000 SF and Garage eyebrows are an additional 12,000 SF.	JVT will update for IBN, IBS, DAT, CBN,CBC only. Not the CON bldg.	JVT	CS-1 (95% CD 8/19/2011)	NO	NO	
VE-5	Concourse Elevators - Delete glazing above ground level on elevator shafts (check double layer of glass at walkway of shaft)	KT	Interior Glass	CON	(1,425,600)			- A		48,000 sf, replace w/shaftwall @ \$20/sf	JVT will prepare documents with this approach as an alternate. The base case will be as shown in DD2.	JVT	IFO-1 (95% CD 11/18/2011)	Yes - Partial	n/a	JVT completed but will add additional information to clarify documents as part of 100% CS1/IFO-3 Submittal
VE-6	Change sliding glass doors for pre-op rooms to curtains	KT	Doors	DAT	(71,500)			- A		13 locations, allowance of \$500/ea for curtains.	JVT will incorporate.	JVT	IFO-1 (95% CD 11/18/2011)	n/a	YES	Completed
VE-7	Reduce parking structure height 7' (needs further discussion) (7' struct. Deduct.) dewatering and comp. fill additional savings.	KT	Multi Trades	PVS	(309,185)			- A	JVT to review the design / and water table - Verify flow rates and water contamination. KT adjust for caissons depth. KT to provide a cost on flow test to be performed. Provide Add cost for water filtration.	JVT & KT	JVT is research geometry and will advise the team on the achievable height reductions. Current estimate is +- 2'. KT to verify projected savings based on 2'.	JVT	STR-1, STR-1a, STR-2, CS-1 - JVT to issue sketches with final achievable height. TBD	NO	NO	Rejected by the VA - Closed
VE-8	Roof - Kynar Finished Standing Seam with Ice & Water Shield in lieu of Zinc.	KT	Roof	CON	(1,000,000)			- A			JVT will incorporate into the design. KT to confirm warranties relative to using Ice & Water Shield vs. EPDM and advise the JVT and VA.	KT	CS-1 (95% CD 8/19/2011)	Yes-Partial	n/a	Alternate System Proposed in DOC 6 - KT to review and update projected cost savings.
VE-9	Change the 6"-8" raised vertical caps/fins @ typical curtainwall to 6" ±5" raised fins/caps.	KT	Glass	ALL	(100,000)	(187,888)	(87,888)	A	KT/JVT NEEDS TO CONFIRM DETAILS	JVT - Bernie (SOM) DA Sub KT - Tina,	JVT to change mullion caps to single projecting fin profile.	JVT	CS-1 (95% CD 8/19/2011)	YES	n/a	Completed
VE-10	CW, Use flat composite panel ILO of shape panel.	KT	Glass	ALL	(100,000)	(87,168)	12,832	A	JVT and KT to conduct further investigation for acceptance.	JVT - Bernie (SOM) DA Sub KT - Tina,	KT to revise VE item to delete "omit shadow box" . JVT will only use flat composite panel ILO shaped panel.	JVT/KT Silo	TBD	YES	n/a	Completed
VE-11	Use Duracon (by PPG) interior paint on aluminum surfaces in lieu of three coat kynar.	KT	Glass	ALL	(750,000)	(619,812)	130,188	A	JVT and KT to conduct further investigation for acceptance.	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item	JVT/KT Silo	TBD	NO	n/a	JVT to include in 100% CDs for CS1/IFO-3 Submittal
VE-12	Use two coat in lieu of three coat kynar paint (exterior).	KT	Glass	ALL	(200,000)	(108,271)	91,729	A	JVT and KT to conduct further investigation for acceptance.	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item	JVT/KT Silo	TBD	Yes - Partial	n/a	JVT completed but will add additional information to clarify documents as part of 100% CS1/IFO-3 Submittal
VE-13	Omit horizontal bull-nose at intermediate effects. WET SEAL	KT	Glass	ALL	(75,000)	(74,182)	818	A	JVT and KT to conduct further investigation for acceptance.	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item	JVT/KT Silo	TBD	YES	n/a	Completed
VE-14	CBN & CBC - Total glass area supported by the mullion system of glass to be less than 50 SF.	KT	Glass	ALL	(275,000)	(76,202)	198,798	A	JVT and KT to conduct further investigation for acceptance.	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item	JVT/KT Silo	TBD	In Progress	n/a	Topic is being worked on by JVT. K-T Design Assist Subcontractor required to maximize the savings.
VE-15	Use 1/4" monolithic glass in lieu of IG units for all exterior and interior parking garage glass.	KT	Glass	Garages	(65,000)	(125,192)	(60,192)	A	JVT and KT to conduct further investigation for acceptance. KT TO VERIFY COST JVT TO VERIFY THICKNESS	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item	JVT/KT Silo	TBD	Yes - Partial	n/a	JVT completed but will add additional information to clarify documents as part of 100% CS1/IFO-3 Submittal
VE-16	Change Garage glass wall storefronts adjacent to elevator doors and at interior stair towers to painted drywall. Cameras with LV. (Interiors)	KT	Glass	Garages	(50,000)	(91,173)	(41,173)	A	JVT to review glass wall. Scope & Location. KT will evaluate cost upon design directive.	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item	JVT/KT Silo	TBD	YES	n/a	Completed
VE-17	Omit exterior shelf at Concourse Zig Zag wall.	KT	Glass	CON	(450,000)	(470,105)	(20,105)	A	SOM to review internally with their designers; also SOM may look at deleting the exterior, horizontal metal infills; Permasteelisa to evaluate the cost of triple, in lieu of standard IG unit, for the re-aligned glass; Triple Glazing add is approx \$10-\$11/sf. - SIMPLIFY ZIG ZAG WALL	JVT - Bernie (SOM) DA Sub KT - Tina,	JVT notes horizontal metal fins will be deleted. The glass should remain as designed based on building energy calculations. JVT will look at continuing to simplify curtain wall.	VA	CS-1 (95% CD 8/19/2011) - TBD	Yes - Partial	n/a	JVT deleted the horizontal metal fins. K-T to adjust costs savings to reflect. Balance of design requires K-T Design Assist Subcontractor to maximize the savings.
VE-18	Change shaped glass "non-rectangular" to rectangular.	KT	Glass	CON	(100,000)	(100,000)		- A	JVT and KT to conduct further investigation of design intent.CONFIRM SCOPE OF GLASS	JVT - Bernie (SOM) DA Sub KT - Tina,	Agree with Action Item - JVT will review extent	JVT/KT Silo	TBD	NO	n/a	K-T Design Assist Subcontractor required to maximize the savings.
VE-19	Energy Center -reduce exterior enclosure design Mtl pnls to precast flat pnls.	KT	Multi Trades	ENC	(150,000)			- A	JVT & KT collaborate on design alternative (schedule impacts/concerns) CONFIRM SCOPE AND PRICE	JVT & KT	JVT to review reducing Metal panels & impact of precast panel changes on the already issued STR work. JVT's directive will be not to change STR documents.	JVT	CS-1 (95% CD 8/19/2011)	NO	n/a	Will be included as part of the ENC Redesign.
VE-20	ALL Bldgs change applied traffic coating @ stairs to sealed concrete.	KT	Arch	ALL	(300,000)			- A	User group interior design input needed - JVT TO CONFIRM THE TYPE OF TREAD NOSING	VA - Brad	Agree with Action Item	JVT	TBD	NO	n/a	JVT to include in 100% CDs for CS1/IFO-3 Submittal
VE-21	ALL - Dispensers - Delete, furnish & install to be by Owner's vendor.	KT	Arch	ALL	(414,480)	(414,480)		- A	Update design documents to reflect this scope change. Items will be provided by Hospital Vendors.	JVT	Agree with Action Item	JVT	IFO-1 (95% CD 11/18/2011)	n/a	YES	Completed
VE-22	Power Distribution Savings - includes but is not limited to the following. • Finalize short circuit calculations which may reduce AIC ratings at substations and downstream equipment. • Provide some spaces and some spares in lieu of all spares in the major distribution equipment. • Re-evaluate all building loads with electrical and mechanical engineers to determine if any equipment can be reduced in size.	KT	Elect	ALL	(200,000)			- A	JVT & KT to review. NEED DA SUB FOR INPUT	JVT - Kevin (C/R) KT - Bill Bales	Agree with Action Item - no work will proceed until the revised direction is clear. Written VA approval to vary from guidelines is required from the VA.	VA	TBD	n/a	YES	Completed

Replacement Medical Center Facility

Eastern Colorado Health Care System

Aurora, CO

Revised Feb. 1, 2012

(Better)

Worse

FTP VE List																
VE #	Proposed VE Item	Proposer	Trade (s)	Building?	Target Cost Impact	Actual Cost	Variance from Target	Acceptance	Action Item	Responsible Party	JVT Comments 7-14-2011			Included in DOC #6 CS-1 IFO-3	Included in DOC #7 IFO-1	Remarks (Nov 4, 2011)
VE-23	Delete Snubbers FOR STANDARD TRANSFORMERS	KT	Elect	ALL	(130,000)			- A	JVT & KT to review.	JVT - Kevin (C/R) KT - Bill Bales	Agree with Action Item. Written VA approval to vary from guidelines is required from the VA.	VA	TBD	n/a	YES	Completed
VE-24	Reduce the level of finish and quantity of light fixtures in public spaces. (Concourse, reception areas, elevator lobbies, waiting areas, etc.) (whole project).	KT	Elect	ALL	(350,000)			- A	JVT to work w/ DA Subs to review fixture selection and establish a target goal.	JVT & KT, DA Sub	On-Hold pending action items noted. SA will be required from VA prior to commencement of JVT services.	VA	TBD	n/a	YES	Completed
VE-25	Eliminating concrete encasement around the conduit in the Concourse and under the building slabs (just elect.). Conduit will be sch. 40 PVC under buildings and sch. 80 PVC for direct-buried.	KT	Elect	ALL	(96,000)			- A	JVT to incorporate into design.	JVT	Agree with Action Item pending written approval of allowance to vary from VA guidelines	VA	STR-1a, IFO-2 - Change Order to already issued CDI documents (100 %CDI-2 on 7/15/2011)	YES	n/a	Completed
VE-26	Clear definition of NEC 708 designated critical operation areas. Affects electrical.	KT	Elect	ALL	(500,000)			- A	Confirm our understanding of the MEMO from VACO. RISK ASSEMENT BY TO BE COMPLETED	JVT - Kevin (C/R)	Agree with Action Item - no work will proceed until the revised direction is clear. Written VA approval to vary from guidelines is required from the VA.	VA	TBD	YES	n/a	Completed
VE-27	Eliminating concrete encasement around the conduit in the Concourse and under the building slabs. (just telecomm). Conduit will be sch. 40 PVC under buildings and sch. 80 PVC for direct-buried.	KT	Elect	ALL	(118,000)			- A	JVT to incorporate into design.	JVT	Agree with Action Item. Written VA approval to vary from guidelines is required from the VA.	VA	STR-1a, IFO-2 - Change Order to already issued CDI documents (100 %CDI-2 on 7/15/2011)	YES	n/a	Item was picked up in the CDI No. 2 IFO-2 set and in the Doc No. 6 CS-1 / IFO-3 set. The JVT removed the concrete encasement around the conduit underneath the concourse and the other building slabs, and kept the concrete encasement just on the conduits that are NOT under a building.

