

95% Design Review
KABUL UNIVERSITY MEN'S DORM
drawings dated January 22, 2011
WO-LT-0015

Response Legend
 A - Agree
 D - Disagree
 O - Out of Scope
 AE - Agree with exception

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Comment #	Reviewer	Reference	Comment	Response Code	Response	Back-Check
MECHANICAL COMMENTS - MEN'S DORM BUILDING 01						
M-1	JPF1	01-M01	Drawing 01-M01 does not agree with drawing Turkish (BTC-YAPI) page 1, (Reverse return piping) please clarify.			
M-2	JPF1	01-M02	Drawing 01-M02 does not agree with drawing Turkish (BTC-YAPI) page 1, (Primary pumps, no secondary loop w/reverse return).			
M-3	JPF1	AIR SYSTEM - General	Detailed space analysis/calculations for building to include heating, cooling and ventilation - The Turkish (BTC-YAPI) sheet does not include mechanical ventilation. Confirm that no mechanical ventilation is being provided.			
M-4	JPF1	AIR SYSTEM - PG 66	Steel boiler overall efficiency is inaccurate - non-condensing boilers typically ~83% which is what boiler specification calls for (3.93). For total plant capacity, subtract 10% for piping/standby losses = 73% overall efficiency. Given these estimates, combined boiler capacity of all four is close to design load and design does not have excess capacity.			
M-5	JPF1	AIR SYSTEM - PG 67	Air system type...WSHP (Water-source heat pump?) - There is no air or cooling system on drawings.			
M-6	JPF1	SPECS - PG 51, Par. 3.63	"Controllers and contractors shall have a maximum of 120 volt control circuits," Electrical voltage on project is 380/220V / 3Ph / 50 Hz. Consult with Electrical Engineer. Suggest change to 24V. And correct spelling of "contractors" to "contactors"			
M-7	JPF1	SPECS - PG 52, Par. 3.65.6	Delete subpar. (a) since it is included and redundant in subpar. (b). Re-letter subparagraphs.			
M-8	JPF1	SPECS - PG 62, Par 3.84.6, thru 3.85.1	Select proper options and delete the improper options and the parenthesis around the proper options.			
M-9	JPF1	SPECS - PG 64, Par 3.88.3, 3.89.4, & 3.90	Select proper options and delete the improper options and the parenthesis around the proper options.			
M-10	JPF1	SPECS - PG 68, Par 3.99	Select proper options and delete the improper options and the parenthesis around the proper options.			
M-11	JPF1	SPECS - PG 69, Par. 3.105	"... and not over 120 volts. ..." Electrical voltage on project is 380/220V / 3Ph / 50 Hz. Consult with Electrical Engineer. Suggest change to 24V.			
M-12	JPF1	SPECS - PH 69, Par 3.110	Delete ")" at end of paragraph.			
M-13	JPF1	SPECS - PG 70, Par 3.113	"NEMA" is an abbreviation and should always be capitalized.			
M-14	JPF1	SPECS - PG 71, Par 3.122.1	Select proper options and delete the improper options and the parenthesis around the proper options.			
M-15	JPF1	SPECS - PG 73, Par 3.124 thru 3.126	Section numbers referenced in paragraphs are not used in project. Ensure sections are included in project and delete reference number.			

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MECHANICAL COMMENTS - MEN'S DORM BUILDING 01						
M-16	JPF1	Turkish (BTC YAPI) General	Provide drawing numbers, room names with room numbers. In core area, floor elevations change on the same floor. Provide floor elevation next to room number if not standard elevation. Place standard elevation next to drawing title near scale.			
M-17	JPF1	Turkish (BTC YAPI) General	No controls are described on drawings anywhere. Suggest adding thermostatic controls per space (room) to include thermostat and digital control valves (1 per radiator). This would be consistent with specifications for steel radiators which calls for radiator valves on water inlet and balancing valves on water outlet (3.140). Provide air vent at each radiator.			
M-18	JPF1	Turkish (BTC YAPI) General	Size all piping to avoid pressure drops greater than 4 ft head loss per 100 ft of pipe (4m per 100m)			
M-19	JPF1	Turkish (BTC YAPI) General	Provide key of symbols used (elevation, pipe labels, riser labels, equipment labels, etc.)			
M-20	JPF1	Turkish (BTC YAPI) General	Provide 4th Floor plan for Core Area (missing from set).			
M-21	JPF1	Turkish (BTC YAPI) - PG 1 Building Plan	If showing boilers on plan, show floor the boilers are actually on (show 1st floor, not 2nd). Suspect Chimney duct is shown in wrong location, more up page to "x" in wall next to stairs. Provide larger scale of boiler room for clarity.			
M-22	JPF1	Turkish (BTC YAPI) - PG 1 Building Plan	Provide emergency burner shut-off switches at all boiler room exits. Provide make-up boiler water detail including pressure regulating valves and air elimination. Provide pump detail including isolation valves and check valves.			
M-23	JPF1	Turkish (BTC YAPI) - PG 1 Building Plan	Label the round boilers in right core dining hall area- are these domestic hot water boilers?			
M-24	JPF1	Turkish (BTC YAPI) - PG 1 Building Plan	Piping to wings run in pipe trench or above 1st floor ceiling? Drawings are unclear- add note.			
M-25	JPF1	Turkish (BTC YAPI) - PG 1 System Sect	In order to reduce the total number of expansion tanks, consider pipe together and use larger tanks to save space.			
M-26	JPF1	Turkish (BTC YAPI) - PG 1 System Sect	Flow rates (units/quantities) to wings do not match floor plans or riser diagram. Check flow rates and heating load and then verify with overall Boiler Plant capacity.			
M-27	JPF1	Turkish (BTC YAPI) - PG 1 System Sect	Provide crossover pipe between supply and return headers for unequal flows between primary and secondary systems.			
M-28	JPF1	Turkish (BTC YAPI) - PG 2 1st Floor Plan	In Room 105 at top of Core area, there are two pipe risers not labeled. Label and number. Pipe riser "K9" is used in four locations. Only use a riser number once to avoid confusion. Connect same "K9" branch pipes to main system.			

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MECHANICAL COMMENTS - MEN'S DORM BUILDING 01						
M-29	JPF1	Turkish (BTC YAPI) - PG 2 1st Floor Plan	Show Piping mains to building wings similar to page 1. Label horizontal piping elevation if not running in ceiling.			
M-30	JPF1	Turkish (BTC YAPI) - PG 2 1st Floor Plan	Add balancing valves on return mains for each wing and riser take-off.			
M-31	JPF1	Turkish (BTC YAPI) - PG 3 2nd Floor Plan	Label pipe risers in room 201. Re label "K9" risers in rooms 208 and 211. Riser "K5" next to Stairs S202 should actually be "K6".			
M-32	JPF1	Turkish (BTC YAPI) - PG 4 3rd Floor Plan	Re label "K9" risers in rooms 300 and 303. Riser "K5" next to Stairs S202 should actually be "K6".			
M-33	JPF1	Turkish (BTC YAPI) - PG 5 General Floor Plan	Piping main runs wrong direction down hallway. Stairs are at the opposite end of the hallway from the core area. Provide minimal heat at end of hall near stairs due to wall/door losses.			
M-34	JPF1	Turkish (BTC YAPI) - PG 5 General Floor Plan	There is no heat shown for toilet rooms. Provide radiators along exterior wall with pipe risers for freeze protection.			
M-35	JPF1	Turkish (BTC YAPI) - PG 5 General Floor Plan	Provide toilet room exhaust according to ASHRAE standard (75 cfm/fixture).			
M-36	JPF1	Turkish (BTC YAPI) - PG 5 General Floor Plan	Label floor plans as Wing A, and state Wings B, C & D are similar.			
M-37	JPF1	Turkish (BTC YAPI) - PG 5 2nd Floor Plan	Radiator in room A200 should be piped from room A201. There is no riser in the corner as shown. See first floor.			
M-38	JPF1	Turkish (BTC YAPI) - PG 6 Wings Column	Pipe connection to core area at wrong end. Are pipe mains running in trench or above 1st floor ceiling. Clarify.			
M-39	JPF1	Turkish (BTC YAPI) - PG 6 Core Area Column	Provide 4th Floor plan for Core Area (missing from set) to compare with column. Correct riser numbers as specified on floor plans and adjust column figure.			
M-40	JPF1	Turkish (BTC YAPI) - PG 6 General	Provide equipment schedules including boilers, pumps, expansion tanks, air separators, and radiators.			
M-41	JPF1	01-E05, 01-E09	Electrical drawings and schedules do not reflect powered mechanical equipment. Coordinate with electrical engineer.			

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P-1	DCG	Specifications (Specs)	3.36: Confirm you want metal valves in plastic piping system.			
P-2	DCG	Specs	3.39: Indicate pressure reducing valve location on plans.			
P-3	DCG	Specs	3.45: Plans show expansion tank. Provide specification here.			
P-4	DCG	Specs	3.48: Details of lavatories call for mounting height of 700mm above floor. Coordinate between plan and specifications.			
P-5	DCG	Specs	3.52: Indicate backflow prevention device location on plans.			
P-6	DCG	Specs	3.54: Specifications call for "P" trap for lavatories. Plans and details do not show this.			
P-7	DCG	Specs	1.1, P-4 Janitors sink: Indicate location on plans.			
P-8	DCG	Specs	FD-A Floor or Shower Drain: Indicate trap primer on plans.			
P-9	DCG	Calculations (Calcs)	Section 1, 1: Amend note to read as follows: "One 12 inch DIAMETER deep tube well and a centralized pumping system to supply water in these 03 buildings"			
P-10	DCG	Calcs	Table 3.1, astric (*) note: Amend note to read as follows: "The above arrived figure does NOT include demand for firefighting purpose. Please refer to the fire section for this requirement"			
P-11	DCG	Calcs	Storage and distribution of water, Water Storage Tank Capacity, Amend capacity of storage tank to be 183640 lits or 185,000 lits (say)			
P-12	DCG	Calcs	Table 3.2: Confirm fixture count and Fixture units per fixture. (For Typical Dorm and Core Area)			
P-13	DCG	Calcs	Note below Table 3.3, correct spelling of the word "pumo" to be "pump"			
P-14	DCG	Calcs	Part 4: Hot water system: Provide design standard this sizing method is based on.			
P-15	DCG	Calcs	Sizing of water heater: Confirm demand factor of 0.3 is required and not 0.4			
P-16	DCG	Calcs	"Selected; two nos. of water heater each with storage tank capacity of 200 gallons:" Confirm that 100% back up water heating capacity is not required.			
P-17	DCG	Calcs	"Selected; two nos. of water heater each with storage tank capacity of 200 gallons:" Confirm storage capacity demand factor is ample for the design standard is utilized.			
P-18	DCG	Calcs	5, a: Chart for drainage fixtures: Confirm quantity of DFU per area is coordinated with updated plans.			
P-19	DCG	01-P01	Provide key plan or some way of identifying location of toilet room as a part of the overall building.			
P-20	DCG	01-P01	Why are there 2 sanitary waste mains on each side of detail?			

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P-21	DCG	01-P01	Confirm sanitary stacks are exposed outside of chases in 2 locations.			
P-22	DCG	01-P01	Center the drains in the shower stalls.			
P-23	DCG	01-P01	Consider adding floor drains outside each shower section, near the water closets and for general floor washing purposes.			
P-24	DCG	01-P01	Provide explanation what FT is. Floor trap is not a recognized term. International Plumbing Code requires each fixture to have its own trap.			
P-25	DCG	01-P01	Provide explanation for what GT stands for.			
P-26	DCG	01-P01	Provide symbols and abbreviation sheet for terms utilized for this design.			
P-27	DCG	01-P01	Show trap primers to floor drains as identified in the specifications.			
P-28	DCG	01-P01	Provide explanation for slope 1:144 (1/12)			
P-29	DCG	01-P01	On right side of detail, it shows two (2) 100uPVC soil pipes. One is drawn larger than the other. Correct scale of pipe to match.			
P-30	DCG	01-P02	Provide key plan or some way of identifying location of toilet room as a part of the overall building.			
P-31	DCG	01-P02	Confirm sanitary stacks are exposed outside of chases in 2 locations.			
P-32	DCG	01-P02	Center the drains in the shower stalls.			
P-33	DCG	01-P02	Consider adding floor drains outside each shower section, near the water closets and for general floor washing purposes.			
P-34	DCG	01-P02	Show trap primers to floor drains as identified in the specifications.			
P-35	DCG	01-P02	What about plan layout for 3rd and 4th floor toilet rooms?			
P-36	DCG	01-P02	Right side of detail, identify where does 80 vent pipe go?			
P-37	DCG	01-P03	Identify toilet room locations.			
P-38	DCG	01-P03	Identify what the "FT" units are serving (4 locations)			
P-39	DCG	01-P03	Provide explanation for slope 1:144 (1/12)			
P-40	DCG	01-P03	Middle of sheet, fix text to read 100 uPVC PIPE not 100 uPV CPIPE			
P-41	DCG	01-P04	Detail 1: Adjust font size so it is legible.			
P-42	DCG	01-P04	Detail A: Show trap primers to floor drains as identified in the specifications.			
P-43	DCG	01-P04	Detail A: Indicate where vent pipe continues to			
P-44	DCG	01-P04	Detail A: Where does stopped pipe go to below note "80 vent pipe"?			
P-45	DCG	01-P04	Detail A: Consider adding floor drains near water closets.			
P-46	DCG	01-P04	Detail A: Show lavatories and associated piping in toilet room.			
P-47	DCG	01-P04	Detail A: What is the FT for in the bottom left of the detail?			

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P-48	DCG	01-P04	Detail A: In toilet stalls, clarify the piping arrangement for the FD and FT. International Plumbing Code requires each fixture to have its own trap.			
P-49	DCG	01-P05	Show water hammer arrestors and trap primers per specifications.			
P-50	DCG	01-P05	Show detail of water heater with relief valve and heat trap per specifications.			
P-51	DCG	01-P05	Correctly identify hot water line towards top of detail. Currently calls out 32 CWS.			
P-52	DCG	01-P05	Correctly show proper flow arrows on hot water line.			
P-53	DCG	01-P05	Near end of chase by water closets, on wall facing the lavatory, there appears to be sill cock or other water outlet. Please identify fixture.			
P-54	DCG	01-P05	Confirm location of water main pipes are exposed and not within chases.			
P-55	DCG	01-P05	Confirm existing piping is existing. Show different line type for clarity. Show routing of existing piping.			
P-56	DCG	01-P05	Left side of detail, show routing of piping from pump room.			
P-57	DCG	01-P06	Show water hammer arrestors and trap primers per specifications.			
P-58	DCG	01-P06	Show detail of water heater with relief valve and heat trap per specifications.			
P-59	DCG	01-P06	Correctly identify hot water line towards top of detail. Currently calls out 32 CWS.			
P-60	DCG	01-P06	Correctly show proper flow arrows on hot water line.			
P-61	DCG	01-P06	Near end of chase by water closets, on wall facing the lavatory, there appears to be sill cock or other water outlet. Please identify fixture.			
P-62	DCG	01-P07	Show 32 water line for 2nd floor toilet room shown on Drawing 01-P08			
P-63	DCG	01-P07	Identify what the piping shown is feeding. Nothing is identified on 2nd floor Drawing 01-P08			
P-64	DCG	01-P08	Provide larger scale drawing of water piping for toilet room towards bottom of detail.			
P-65	DCG	01-P08	Show hot water and heater for toilet room towards bottom of detail.			
P-66	DCG	01-P08	Show hot water heater detail with relief valve, heat trap for toilet room towards bottom of detail.			
P-67	DCG	01-P08	Show water hammer arrestors and trap primers per specifications for toilet room towards bottom of detail.			
P-68	DCG	01-P08	Show water piping for toilet rooms on higher floor levels.			
P-69	DCG	01-P09	Show hot water piping schematic including water heaters.			
P-70	DCG	01-P09	Identify water main sizes including fixture units.			
P-71	DCG	01-P09	Show water hammer arrestors and trap primers per specifications.			
P-72	DCG	01-P09	Provide detail for pump/expansion tank arrangement.			

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P-73	DCG	01-P09	Provide detail of well and storage tank arrangement.			
P-74	DCG	01-P10	Show water hammer arrestors and trap primers per specifications.			
P-75	DCG	01-P10	Show expansion tanks at water heater.			
P-76	DCG	01-P10	Change water line from cold to hot water type from outlet of heaters to fixtures requiring hot water.			
P-77	DCG	01-P10	Enlarge the scale of the piping for the showers. The size is too small and makes it difficult to read.			
P-78	DCG	01-P12	Abbreviation table: Define "Floor trap"			
P-79	DCG	01-P12	Abbreviation table: Explain what the 100 X 50mm is for the floor drain?			
P-80	DCG	01-P12	Detail 1: Scale is illegible. Scale up so it can be reviewed.			
P-81	DCG	01-P12	Size of Vertical Stack table: This table is unclear. Where are the stack labels shown? SW-1, SW-2, SW-3, SW-4			
P-82	DCG	01-P12	Size of Vertical Stack table: Showers are missing from this table. Add to fixture counts.			
P-83	DCG	01-P12	Size of Vertical Stack table: What is the DFU value of the floor trap? SW-1 is different than SW-3.			
P-84	DCG	01-P12	Size of Vertical Stack table: SW-4, there are no values inputted for fixtures or DFU's per floor. Please complete table.			
P-85	DCG	01-P12	Detail 1: Show trap primers as required in the specifications.			
P-86	DCG	01-P13	Detail 1: Explain what "Make chilly" means.			
P-87	DCG	01-P13	Detail 2: Explain what "make chilly" means.			
P-88	DCG	01-P13	Detail 2: Identify where section A-A detail is since multiple section A-A are shown on this drawing.			
P-89	DCG	01-P13	Section A-A of FCO/COP: Specification calls for plastic waste piping. Remove notation for cast iron materials and joining methods.			
P-90	DCG	01-P13	Section detail: Specification calls for plastic waste piping. Remove notation for cast iron materials and joining methods. Define what "Make chilly" means. Identify where this section is from what detail.			
P-91	DCG	01-P13	Detail 3: Specification calls for plastic waste piping. Remove notation for cast iron materials and joining methods.			
P-92	DCG	01-P13	Detail 4 and 6 are the same. Remove one of these details.			
P-93	DCG	01-P13	Detail 5: Explain what "G.I. pipe from sink or W.B." means. Specification calls for plastic waste piping. Remove notation for cast iron materials and joining methods.			

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P-94	DCG	01-P13	Detail 5: International Plumbing Code, Section 1002.1 requires that each plumbing fixture to have its own trap. No common trap can be utilized for multiple fixtures.			
P-95	DCG	01-P13	Detail 7: Correct detail title			
P-96	DCG	01-P13	Detail 7: Specifications call for plastic waste piping. Detail shown is for concrete pipe. Please correct.			
P-97	DCG	01-P13	Detail 7: Explain what "Cement Mortar 1:2" means.			
P-98	DCG	01-P13	Detail 8: Correct detail title.			
P-99	DCG	01-P13	Detail 8: Explain what "Cement Concrete 1:4:8 or Cement Concrete 1:2:4" means.			
P-100	DCG	01-P13	Detail 8: Define what "W" and "T" are? Provide table or explain what they are for.			
P-101	DCG	01-P13	Detail 10: Correct detail title.			
P-102	DCG	01-P13	Detail 10: Mounting height calls for 700mm. Specification calls for 864mm. Coordinate plans and specifications.			
P-103	DCG	01-P13	Detail 10: Per International Plumbing Code, 1002.1, maximum distance from fixture outlet to trap weir shall not exceed 610mm. As shown, this installation exceeds this distance. Revise how lavatories are trapped to comply with the code.			
P-104	DCG	01-P13	Detail 10: Is this a fixture for use by the physically handicapped as identified in the specifications? Layout of drain and supplies shown does not meet this use.			
P-105	DCG	01-P13	Detail 11: Correct detail title.			
P-106	DCG	01-P13	Detail 11: Specifications call for plastic waste piping. Remove notation for "CI" P trap.			
P-107	DCG	01-P13	Detail 11: Indicate water spigot on side of toilet stall.			
P-108	DCG	01-P13	Detail 11: Correct note "75 diameter uPVC as PIPE". What does this mean?			
P-109	DCG	01-P13	Detail 11: Correct note "110OD uPVC soil pipe" Plans calls for 100mm soil pipe.			
P-110	DCG	01-P13	Detail 12: Correct detail title.			
P-111	DCG	01-P13	Detail 12: Where on the plans does this detail occur?			
P-112	DCG	01-P13	Detail 12: Where is section X-X shown? Please indicate location.			
P-113	DCG	01-P13	Detail 13: Where on the plans does this detail occur?			
P-114	DCG	01-P13	Detail 13: Correct note from "cOst iron cover" to be "cAst iron cover"			
P-115	DCG	01-P13	Consider adding a wall sleeve detail.			
P-116	DCG	Drawings	Drawing 01-P11 is missing. Please submit for review.			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-1	JAS	CIV03	The routing of conduit from manhole to Dining Facility is shown differently than in the Dining Facility submission. Which one is correct?			
E-2	JAS	CIV03	Drawing needs an electrical legend.			
E-3	JAS	CIV03	What size conductors are to be run to the Men's Dormitory?			
E-4	JAS	CIV03	What size conductors are to be run to the Dining Facility and Laundry Building?			
E-5	JAS	CIV03	Is the 15KV feed to Building #25 new or existing? If it is new, what size are the conductors?			
E-6	JAS	CIV04	Nothing on this drawing defines the scope of the work to be performed.			
E-7	JAS	CIV04	There is no Demolition Work shown. What is being removed? What is being retained?			
E-8	JAS	CIV04	There are no Notes about continuity of electrical service or advance notice before outages. Is this a requirement?			
E-9	JAS	CIV04	No information is provided on grounding at the substation.			
E-10	JAS	CIV04	There are no Details shown or referenced on the drawing.			
E-11	JAS	CIV04	We assumed that the 15KV switchgear is existing, to remain in service. Is this correct? Please clarify on drawings.			
E-12	JAS	CIV04	Is the 15KV feed to Building #25 new or existing? If it is new, what size are the conductors?			
E-13	JAS	CIV04	Is the LV Switchgear new or is the existing relocated?			
E-14	JAS	CIV04	Provide information on extending existing LV Switchgear circuits to the new location.			
E-15	JAS	CIV04	Provide a panel schedule and/or one-line diagram for the LV Switchgear.			
E-16	JAS	CIV04	Provide quantity and size of conduits and conductors from LV Switchgear to the Men's Dormitory building.			
E-17	JAS	CIV04	Are the two 1000kVA transformers existing or new? If they are new, where are they specified?			
E-18	JAS	CIV04	What size are the feeders and primary overcurrent devices for the two transformers?			
E-19	JAS	CIV04	What size are the feeders from the transformers to the LV Switchgear?			
E-20	JAS	CIV04	How is the feed from the two transformers to the LV Switchgear configured?			
E-21	JAS	General - All Drawings	For all "E" drawings, symbols and associated text are too small to be easily read.			
E-22	JAS	General - All Drawings	No Room Names are shown on the floor plans. Please add for clarification.			
E-23	JAS	01-E01	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-24	JAS	01-E01	Need additional notes to clarify scope of work.			
E-25	JAS	01-E01	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-26	JAS	01-E01	Panelboard symbols used on floor plan are not consistent with those show in the Legend.			
E-27	JAS	01-E01	Legend - EXIT fixture shows 18W. Specified exit sign is LED. 18W load sounds excessive.			
E-28	JAS	01-E01	What lighting levels are being provided in the various rooms?			
E-29	JAS	01-E01	Show exit signs at all Egress Exits and along the Path of Egress.			
E-30	JAS	01-E01	Circuit number designation does not match example or panel schedule/riser.			
E-31	JAS	01-E01	Screen back columns and grids to help make electrical work stand out more.			
E-32	JAS	01-E01	Provide lighting calculations for Egress Path illumination to verify the Code mandated minimums are met.			
E-33	JAS	01-E01	Provide lighting calculations for typical rooms.			
E-34	JAS	01-E01	Where is the main electrical room located?			
E-35	JAS	01-E01	Where is the MDP located?			
E-36	JAS	01-E02	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-37	JAS	01-E02	Need additional notes to clarify scope of work.			
E-38	JAS	01-E02	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-39	JAS	01-E02	Panelboard symbols used on floor plan are not consistent with those shown in the Legend.			
E-40	JAS	01-E02	Legend - EXIT fixture shows 18W. Specified exit sign is LED. 18W load sounds excessive.			
E-41	JAS	01-E02	What lighting levels are being provided in the various rooms?			
E-42	JAS	01-E02	Show exit signs at all Egress Exits and along the Path of Egress.			
E-43	JAS	01-E02	Circuit number designation does not match example or panel schedule/riser.			
E-44	JAS	01-E02	Screen back columns and grids to help make electrical work stand out more.			
E-45	JAS	01-E02	Provide lighting calculations for Egress Path illumination to verify the Code mandated minimums are met.			
E-46	JAS	01-E02	Provide lighting calculations for typical rooms.			

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Response Legend
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Comment #	Reviewer	Reference	Comment	Response Code	Response	Back-Check
ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-47	JAS	01-E02	Lighting fixtures in each stair should have the "E" designator indicating Emergency with battery pack.			
E-48	JAS	01-E03	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-49	JAS	01-E03	Need additional notes to clarify scope of work.			
E-50	JAS	01-E03	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-51	JAS	01-E03	Panelboard symbols used on floor plan are not consistent with those shown in the Legend.			
E-52	JAS	01-E03	Legend - EXIT fixture shows 18W. Specified exit sign is LED. 18W load sounds excessive.			
E-53	JAS	01-E03	What lighting levels are being provided in the various rooms?			
E-54	JAS	01-E03	Show exit signs at all Egress Exits and along the Path of Egress.			
E-55	JAS	01-E03	Circuit number designation does not match example or panel schedule/riser.			
E-56	JAS	01-E03	Screen back columns and grids to help make electrical work stand out more.			
E-57	JAS	01-E03	Provide lighting calculations for Egress Path illumination to verify the Code mandated minimums are met.			
E-58	JAS	01-E03	Provide lighting calculations for typical rooms.			
E-59	JAS	01-E03	Lighting fixtures in each stair should have the "E" designator indicating Emergency with battery pack.			
E-60	JAS	01-E03	What are the large spaces in the center of the Core that have no lighting indicated?			
E-61	JAS	01-E04	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-62	JAS	01-E04	Need additional notes to clarify scope of work.			
E-63	JAS	01-E04	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-64	JAS	01-E04	Panelboard symbols used on floor plan are not consistent with those show in the Legend.			
E-65	JAS	01-E04	Legend - EXIT fixture shows 18W. Specified exit sign is LED. 18W load sounds excessive.			
E-66	JAS	01-E04	What lighting levels are being provided in the various rooms?			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-67	JAS	01-E04	Show exit signs at all Egress Exits and along the Path of Egress.			
E-68	JAS	01-E04	Circuit number designation does not match example or panel schedule/riser.			
E-69	JAS	01-E04	Screen back columns and grids to help make electrical work stand out more.			
E-70	JAS	01-E04	Provide lighting calculations for Egress Path illumination to verify the Code mandated minimums are met.			
E-71	JAS	01-E04	Provide lighting calculations for typical rooms.			
E-72	JAS	01-E04	Lighting fixtures in each stair should have the "E" designator indicating Emergency with battery pack.			
E-73	JAS	01-E04	What are the large spaces in the center of the Core that have no lighting indicated?			
E-74	JAS	01-E04	What is the round fixture shown in Room 404? It is not shown in the Legend.			
E-75	JAS	01-E05	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-76	JAS	01-E05	Need additional notes to clarify scope of work.			
E-77	JAS	01-E05	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-78	JAS	01-E05	Circuit numbers do not match the panelboard designations.			
E-79	JAS	01-E05	Panelboard symbols do not show up on the floor plan.			
E-80	JAS	01-E05	No feeds are shown for the boilers and pumps. How are they powered?			
E-81	JAS	01-E05	Add grounding details.			
E-82	JAS	01-E05	No Fire Alarm devices are shown. This type of building occupancy is required to have a full fire alarm system per NFPA and IBC codes. Fire alarm system is included in the specifications, but nothing is shown on the drawings. WHY?			
E-83	JAS	01-E06	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-84	JAS	01-E06	Need additional notes to clarify scope of work.			
E-85	JAS	01-E06	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-86	JAS	01-E06	Circuit numbers do not match the panelboard designations.			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-87	JAS	01-E06	Add grounding details.			
E-88	JAS	01-E06	No Fire Alarm devices are shown. This type of building occupancy is required to have a full fire alarm system per NFPA and IBC codes. Fire alarm system is included in the specifications, but nothing is shown on the drawings. WHY?			
E-89	JAS	01-E06	Receptacles shown in Room 217 should be GFI type since this is a Toilet.			
E-90	JAS	01-E07	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-91	JAS	01-E07	Need additional notes to clarify scope of work.			
E-92	JAS	01-E07	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-93	JAS	01-E07	Circuit numbers do not match the panelboard designations.			
E-94	JAS	01-E07	Add grounding details.			
E-95	JAS	01-E07	No Fire Alarm devices are shown. This type of building occupancy is required to have a full fire alarm system per NFPA and IBC codes. Fire alarm system is included in the specifications, but nothing is shown on the drawings. WHY?			
E-96	JAS	01-E08	This sheet is a repeat of lighting drawing 01E04. No "Power" wiring or devices are shown.			
E-97	JAS	01-E08	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-98	JAS	01-E08	Need additional notes to clarify scope of work.			
E-99	JAS	01-E08	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-100	JAS	01-E08	Circuit numbers do not match the panelboard designations.			
E-101	JAS	01-E08	Add grounding details.			
E-102	JAS	01-E08	No Fire Alarm devices are shown. This type of building occupancy is required to have a full fire alarm system per NFPA and IBC codes. Fire alarm system is included in the specifications, but nothing is shown on the drawings. WHY?			
E-103	JAS	01-E09	If the building has a "Ground Floor" as implied by the one-line diagram, it needs to be shown.			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-104	JAS	01-E09	Where is the MDP located?			
E-105	JAS	01-E09	What is the building service size?			
E-106	JAS	01-E09	Where does the service enter the building?			
E-107	JAS	01-E09	Where and what is Panelboard EM? Is it emergency? Where is it fed from?			
E-108	JAS	01-E09	Provide load calculations to verify panelboard and feeder sizing.			
E-109	JAS	01-E09	Provide voltage drop calculations for all feeders and longest branch circuit run.			
E-110	JAS	01-E09	Provide fault current calculations.			
E-111	JAS	01-E09	The load shown for Panelboard MDP-Core is 302kVA, or 459 amps, yet the panelboard is scheduled as 225 amp MCCB and bus. Justify this grossly undersize panelboard.			
E-112	JAS	01-E09	The panel schedules for all lighting and power distribution panelboards refer to "Plug-In breakers". Specifications require "Bolt-On breakers". Revise.			
E-113	JAS	01-E09	Panelboard LP-1 is scheduled as 36 CKT, yet 42 circuits are shown. Revise			
E-114	JAS	01-E09	Panelboard LPD1 is scheduled as 18 CKT, yet 22 circuits are shown. Revise			
E-115	JAS	01-E09	The 95 sq mm shown feeding MDP-Core is too small. For the 225A shown, 120 sq mm is required. For the actual load shown, the feeder should be 2 sets of 150 sq mm to be adequate for the 459A load.			
E-116	JAS	01-E09	Add grounding details.			
E-117	JAS	A-E01	In the Legend, Fixture Type A2 should have an "E" designation similar to that on the Core drawings to indicate an "emergency" fixture.			
E-118	JAS	A-E01	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-119	JAS	A-E01	Need additional notes to clarify scope of work.			
E-120	JAS	A-E01	Legend - EXIT fixture shows 18W. Specified exit sign is LED. 18W load sounds excessive.			
E-121	JAS	A-E01	What lighting levels are being provided in the various rooms?			
E-122	JAS	A-E01	Show exit signs at all Egress Exits and along the Path of Egress.			
E-123	JAS	A-E01	Circuit numbers do not match example or panel designations.			
E-124	JAS	A-E01	Provide lighting calculations for Egress Path illumination to verify the Code mandated minimums are met.			
E-125	JAS	A-E01	Provide lighting calculations for typical rooms.			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-126	JAS	A-E01	The grounding rod and conductor shown on this drawing should only be shown on drawing A-E03.			
E-127	JAS	A-E02	All the same comments as for A-E01.			
E-128	JAS	A-E03	This is a renovation project, yet there is no demolition of existing systems shown. What is the scope of the demolition work? Are we to assume that all lighting fixtures and wiring are new?			
E-129	JAS	A-E03	Need additional notes to clarify scope of work.			
E-130	JAS	A-E03	Need to add abbreviations and additional symbols to the Legend. Consider a separate sheet showing all electrical (power and lighting) symbols and abbreviations. Then they would not need to be repeated on each sheet.			
E-131	JAS	A-E03	Circuit numbers do not match the panelboard designations.			
E-132	JAS	A-E03	Add grounding details.			
E-133	JAS	A-E03	No Fire Alarm devices are shown. This type of building occupancy is required to have a full fire alarm system per NFPA and IBC codes. Fire alarm system is included in the specifications, but nothing is shown on the drawings. WHY?			
E-134	JAS	A-E03	Why are the symbols shown for duplex receptacles and GFI receptacles different than those used in the Core?			
E-135	JAS	A-E03	Show the location and connections to the water heaters.			
E-136	JAS	A-E04	All the same comments as for A-E03.			
E-137	JAS	A-E05	Panel schedule for MDB-A should be removed from this sheet. It is shown on A-E06.			
E-138	JAS	A-E05	Wing - A One-Line diagram should be removed from this sheet. It is shown on A-E06.			
E-139	JAS	A-E05	All panelboards, the room numbers shown in the panel schedules are the same for all four floors. Revise.			
E-140	JAS	A-E06	All panelboards, the room numbers shown in the panel schedules are the same for all four floors. Revise.			
E-141	JAS	A-E06	"Elevation for surface mounted switch and receptacle" should be removed from this sheet. It is shown on A-E05.			
E-142	JAS	A-E06	Panelboard MDB-A Circuit Breaker Trip Amps should match what is shown on the various panel MCCB sizes.			
E-143	JAS	A-E06	Panelboard MDB-A schedule, indicate number of poles for all circuit breakers.			
E-144	JAS	A-E06	The 95 sq mm shown feeding MDP-A is too small. For the 225A shown, 120 sq mm is required.			
E-145	JAS	A-E06	Add grounding details.			
E-146	JAS	B-Wing	Comments similar to those for drawings in A-Wing			
E-147	JAS	C-Wing	Comments similar to those for drawings in A-Wing			
E-148	JAS	D-Wing	Comments similar to those for drawings in A-Wing			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-149	JAS	Electrical Calculations	The calculations referenced in 3. as being "shown in the panel schedules and tables in the drawings" do not exist. Please provide.			
E-150	JAS	Electrical Calculations	Paragraph 5. The letter "T" in "The" is missing in the first line.			
E-151	JAS	Specifications	4.2.9.1, seventh line, the sentence "Extended voltage range motors shall not be permitted." is repeated and should be deleted.			
E-152	JAS	Specifications	4.9.1.3.2, The last line has an extra return in it.			
E-153	JAS	Specifications	4.9.1.6.2 b) These requirements are the same. Why the distinction between shielded and nonshielded?			
E-154	JAS	Specifications	4.9.2a) Radius dimensions should be given in mm, not inches.			
E-155	JAS	Specifications	4.12.2.1.4 Edit first sentence to read "The Contractor shall provide proper manpower and cable pulling winch, as required."			
E-156	JAS	Specifications	4.12.3.1 Remove the word "Secondary" from the first line.			
E-157	JAS	Specifications	4.12.3.4 In sixth line, there is an extra space in "150 mm".			
E-158	JAS	Specifications	4.12.4.3 In third line, there is an extra space in "handholes".			
E-159	JAS	Specifications	4.12.6.2 Delete last sentence. Other sections prohibit the use of aluminum conductors.			
E-160	JAS	Specifications	4.12.7.3 In the second sentence, add the words "or replaced" after "repaired" and before "cable".			
E-161	JAS	Specifications	4.14.2.3 Add "or approved equal." to the end of sentence.			
E-162	JAS	Specifications	4.14.2.5 Add "or approved equal." to the end of sentence.			
E-163	JAS	Specifications	4.14.2.5 Add "or approved equal acceptable to the conduit manufacturer." to the end of sentence referring to Cement.			
E-164	JAS	Specifications	4.14.2.7.1 Add "or approved equal." to the end of sentence.			
E-165	JAS	Specifications	4.14.2.7.2 Add "or approved equal." to the end of sentence.			
E-166	JAS	Specifications	4.14.2.9 Add "or approved equal." to the end of sentence.			
E-167	JAS	Specifications	4.15.1.7 In the first sentence, after the word "splices", add the words "only in approved boxes".			
E-168	JAS	Specifications	4.19.4 Fluorescent is misspelled.			
E-169	JAS	Specifications	4.20.4 Specify Battery Backup for Fluorescent Fixtures as shown on the drawings.			
E-170	JAS	Specifications	5.2.1.a. In the first line, LCD is liquid crystal DISPLAY, not diode.			
E-171	JAS	Specifications	5.2.1.d. Define NAC.			
E-172	JAS	Specifications	5.9 Specify Visual Notification Appliances per NFPA 72 and 101 requirements.			

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ELECTRICAL COMMENTS - MEN'S DORM BUILDING 01						
E-173	JAS	Specifications	6.0 Motor Control Centers - Where is this equipment used? Not shown on the drawings anywhere. If it is not used, delete the section.			

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STRUCTURAL COMMENTS MEN'S DORM BUILDING 01						
S1	FRS	General	Calculations and specifications not provided to verify drawing design details. No associated drawings provided to confirm compatibility with building and site grading.			
S2	FRS	Ramp Geometry	Ramp slope is about 1:8 which is steeper than (IBC 10.10.2) maximum of 1:12 for egress ramps.			
S3	FRS	Ramp Geometry	Verify adequate ramp width to accommodate a minimum clear width of 914mm between intended handrails (IBC 1010.6.2) and considering location of handrail. Verify ramp width adequate for the number of occupants in building.			
S4	FRS	ST-101	Indicate adequate finish type for concrete ramp/platforms.			
S5	FRS	ST-101	Note 4 is not clear. Reviewer notes that mix water for concrete should be potable quality water.			
S6	FRS	ST-101	What is purpose of plinth beam - is it required to limit the braced length of the Line 1 columns? Not shown on typical footing section.			
S7	FRS	ST-101	Note 20 refers to pour strip, but not shown on drawings.			
S8	FRS	ST-101	General Note 8d - 20mm slab bar clearance not appropriate for exterior exposure, ACI Code indicates 40mm minimum clearance to primary reinforcement.			
S9	FRS	ST-102	Show beams on Section 1.			
S10	FRS	ST-102	Show intended construction joint locations and typical detail.			
S11	FRS	ST-102	Show intended slab contraction joint locations and typical detail. This is important to minimize crack widths and provide a more aesthetic surface.			
S12	FRS	ST-102	Show handrail anchorage detail into ramp concrete.			
S13	FRS	ST-102	How is bottom edge of ramp at El 0.0 supported? Only one side is supported into short column B4. Should there be an edge beam supporting bottom edge of ramp founded below frost line instead of B4 on spread footing?			
S14	FRS	ST-102/103	Show beam outline on Section 1			
S15	FRS	ST-103/104	Framing Plan - Show all reinforcement symbols on extent arrows.			
S16	FRS	A01 Underground Tank	Underground tank plan and section do not provide structural detail. It issued that the tank is new work.			
S17	FRS	A01 Underground Tank	Southerly, exterior tank cell wall applies an unbalanced lateral earth load to the interior 350mm tank wall - concern that interior wall will not be sufficient as shown, subject to the full tank liquid load without bracing along it's height. A partial height concrete wall extending to the northerly wall may be necessary and could be provided up to the stair landing level.			

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STRUCTURAL COMMENTS MEN'S DORM BUILDING 01						
S18	FRS	A01 Underground Tank	If the tank is located where vehicle wheel loads can surcharge the roof slab and wall, must be included in the structural design or specify/detail curbing or bollards located on plans to prevent vehicular live loads within the influence zone.			
S19	FRS	A01 Underground Tank	What is the function of the cavity wall beyond tank? Is it structural?			
S20	FRS	A01 Underground Tank	Consider effects of buoyancy on the partial and finished structure. Base slab heels may provide economical method to resist buoyancy of empty tank. Assumed, seasonal high groundwater should be indicated.			

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WATER/WASTEWATER COMMENTS - MEN'S DORM BUILDING 01						
W1	JWH	CIV01	The plans show a new water supply system being installed onsite. No calculations regarding the capacity of the system were provided.			
W2	JWH	CIV01	Portions of the existing system are ballooned on the plan. Identify the purpose of these callouts.			
W3	JWH	CIV02	Clarify the note at the bottom of the "Detail of the proposed Sewer Lines" Is it saying that the existing system needs to be upgraded to accommodate the total flows?			
W4	JWH	CIV02	Rim Grades are not provided.			
W1	JWH	CIV02	Pipe Numbers on the plans are not legible.			