



100% Design Review
KABUL UNIVERSITY LAUNDRY FACILITY
drawings dated September 30, 2010
WO-LT-0015

<u>Excel Worksheet Name</u>	<u>Description</u>	<u>Printed Page Number</u>
Index Sheet	Excel Workbook Index	1
Architectural	Architectural Drawing Comments	2-3
Civil	Civil Drawing Comments	4
Structural	Structural Drawing Comments	5
Mechanical	Mechanical Drawing Comments	6
Plumbing	Plumbing Comments	7
Electrical	Electrical Drawing Comments (Includes Technology and Communication)	8

Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
ARCHITECTURAL DRAWINGS						
A-1	TMH	Arch. Specs	Add Rigid Insulation Section to spec for exterior walls	D	HVAC calculations for incorporation of provided HVAC equipment have been accomplished by considering CMU exterior walls. Hence, there is no need for providing additional rigid insulation and its corresponding specifications.	D-The increased capacity of HVAC equipment does not negate the code requirement for minimum Energy Efficiency of the building envelope. R- value of the exterior walls is still required to be 5.7, currently with CMU block only it is around 1.0
A-2	TMH	Arch. Specs	Section for Painting missing, both Interior and Exterior.	A	Will be provided in next submittal	
A-3	TMH	Arch. Specs	Add section for Tiles for tiling of floors and walls.	A	Will be provided in next submittal	
A-4	TMH	Arch. Specs	Section for Doors and Door Hardware missing.	A	Will be provided in next submittal	
A-5	TMH	Arch. Specs	Revise Batt Insulation type to be faced with foil as a vapor barrier to match drawings.	A	Details will be provided per the approved sample in next submittal	
A-6	TMH	Arch. Specs	Section for painting of metal guard rails and pickets with exterior grade paint is missing.	A	Will be provided in next submittal	
A-7	TMH	All Sheets	Revise Disclaimer Note to more accurately reflect agreed upon code deviations. Ex.: " VEC and its affiliates are not liable for complying with sections of the current international code,IBC 2006, per certain allowed deviations from the code as agreed upon with USAID"	A	Will be provided in next submittal	
A-8	TMH	A01	Boiler room walls indicate Wall Type 'C', Wall Type 'C' Detail C on A07 does not indicate that the wall is 1 hr. Fire Rated as required by code.	A	Will be provided in next submittal	
A-9	TMH	A02,A03	Material Schedule does not indicate any wall insulation as part of the exterior wall construction. The 2006 IBC, Chapter 13 Energy Efficiency, references the International Energy Conservation Code. Table 502 of this code requires a minimum 'R' value of 5.7 for Mass walls above grade, Zone 4, which is the equivalent climate zone for Kabul. Minimum insulation thickness required is 2.5 cm.	D	Refer to Response for Comment A-1	D- See Response to Comment A-1
A-10	TMH	A02,A03	Roof note indicates a Pre-Engineered roof system, to date no drawings have been provided for review. Roof decking as shown is self-supporting, calculations are needed to verify that no structural members are needed to support the roof deck.	AE	Pre-Engineered roof system details have been provided in Architectural plans. Specification sheets also contain related design data to facilitate procurement / construction. Missing calculations will be provided.	A- awaiting calculations

A-11	TMH	A04	Door D3 for Boiler Room 105 is a 45 min. rated door, louvers indicated are not allowed. Suggest a wall vent with fire damper, or an exterior wall vent, for make-up air required for the water heater(s).	D	Louvers are allowed for a 3/4 hour fire rated door (see Article 5 of the attached Technical Data Sheet)	AE- provide Fusible Link Louver per article 5. This fusible link will need to be wired to a smoke detector system within the Boiler room for activation in the event of a fire.
A-12	TMH	A04	Revise Finish Schedule to reflect tile used on floors and walls in Rooms 101 Laundry and 104 Restroom. Wall tile to extend to 1.2m high.	A	Will be provided in next submittal	
A-13	TMH	A04	Revise Material Schedule to reflect wall and floor tile being used.	A	Will be provided in next submittal	
A-14	TMH	A04	Revise metal window note to PVC window.	A	Will be provided in next submittal	
A-15	TMH	A04	Add rigid insulation at exterior walls for door and window details.	D	Refer to Response for Comment A-1	D-Refer to Comment A-1
A-16	TMH	A05	North Arrow is incorrect	A	Will be provided in next submittal	
A-17	TMH	A05	Roof Ventilators indicated on the plan are rotated 90 degrees from the elevations.	D	Please re-check. These appear to be correct	AE- Roof Ventilator Plan is rotated 90 degrees from Floor Plan-confusing.
A-18	TMH	A06	Guardrail and handrail ends are to return to their own vertical posts, to ground, or to a wall.	A	All is to be ended to their own post.	
A-19	TMH	A06	Revise Restroom elevations to reflect wall tile installed to a height of 1.2m	A	Will be provided in next submittal	
A-20	TMH	A07	Detail A indicates inner wythe of CMU stopping at 1.2m high. Wall as built extends above ceiling.	A	Will be provided in next submittal	
A-21	TMH	A07	Wall Detail A1 indicates metal stud wall, and 1 hour rating at exterior walls. Metal studs are not being used, and exterior walls do not require a fire rating.	A	Will be provided in next submittal	
A-22	TMH	A07	Detail B1 indicates a 1 hour rating, this is not required for exterior walls.	A	Will be provided in next submittal	
A-23	TMH	A07	Revise Detail E to reflect wall tile on washing machine side of wall. Change "Exterior" to "Interior".	A	Will be provided in next submittal	
A-24	TMH	A07	Detail H indicates plywood soffit, suggest metal to match gutters for durability.	D	We usually use 16mm thick painted marine plywood for soffit.	Defer to USAID for decision
A-25	TMH	A07	Detail I - metal gutters and downspouts need to be galvanized.	A	Will be provided in next submittal	
A-26	TMH	A07	Detail I - concrete splash blocks needed at downspouts.	A	Will be provided in next submittal	



100% Design Review
KABUL UNIVERSITY LAUNDRY FACILITY
drawings dated September 30, 2010
WO-LT-0015

Response Legend
 A - Agree
 D - Disagree
 O - out of scope
 AE - Agree with exception

Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
CIVIL COMMENTS - LAUNDRY FACILITY BUILDING 29						
C-1	JWH	29-C04	Provide benchmark and survey control data. The laundry building on sheet C05 provides coordinated and elevations for the building. This information is insufficient for layout without existing survey control.	AE	Will be provided under a separate submittal	
C-2	JWH	29-C04- C05	Notes and Coordinates not legible	A	Will be provided in next submittal	
C-3	JWH	29-C07 & C08	Previous (65%) comments C-22 to C-33 addressed by elimination of sheets. The plans reference movement of these items to the "Civil and Utilities Site Plan" which is not provided.	AE	Will be provided under a separate submittal	
C-35	JWH	Engineering & Utility Report	Water and sewer have not been designed. There is no wastewater treatment provided for this facility.	AE	Water and Sewer designs, per the SOW, are part of another design submittal package. Wastewater Treatment facility is not part of scope.	
C-40	JWH	Specifications	Technical specs reviewed. Water and sewer have been removed from this package No additional comments.			



100% Design Review
KABUL UNIVERSITY LAUNDRY FACILITY
drawings dated September 30, 2010
WO-LT-0015

Response Legend
A - Agree
D - Disagree
O - out of scope
AE - Agree with exception

Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
STRUCTURAL COMMENTS - LAUNDRY FACILITY BUILDING 29						
S1	FRS	Drawings 29-S05	Details 2/S04 & 3/S04 17/S04 indicate non-bearing wall elements as studwall, but not consistent with architectural details on A07. Coordinate and modify graphics as appropriate.	A	Will be provided in next submittal	

Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
MECHANICAL COMMENTS - LAUNDRY FACILITY BUILDING 29						
M-1	CSR	29-M01	A 65% review comment was made regarding possible freezing of pipes in Boiler room and adjacent Restroom A103. Response was made that an freezing damage to an electric hot water heater is unlikely and that exposed piping is run in the laundry facility anyway. This response is noted here that the concern was considered and no heating was added.	A	A space heater will added in next submittal.	
M-2	CSR	29-M01	Transfer grille in Restroom A103 has been deleted from 65% design. Grille is required to provide transfer air for room exhaust fan EF (Door Schedule on 29-A04 indicates door is not fire rated so grille is permissible). Reinstate grille TG(D) and symbol description for the 305mmx203mm grille.	A	In the next submittal it is to reinstate the grille and symbol same as the 65% design	
M-3	CSR	29-M01	The washers are scheduled on this page and included in the specs. as HVAC equipment therefore, show quantity and location of washers on this drawing and include "WM" label.	A	Washing machine layout is shown P01 and A01. However we agreed to show the quantity and location of washers in drawing 29 M-01 in next submittal.	
M-4	CSR	Design Analysis (Engineering Report and Calculations)	Under Mechanical Section 4.1.d., Equipment Selection and Controls, add a description of the toilet exhaust fan for purpose of compliance with the Mechanical Code ventilation requirements.	A	Next submittal will revise with the description of toilet exhaust fan in the design analysis	
M-5	CSR	Specifications	Technical specs reviewed. No comments.			



100% Design Review
KABUL UNIVERSITY LAUNDRY FACILITY
drawings dated September 30, 2010
WO-LT-0015

Response Legend
 A - Agree
 D - Disagree
 O - out of scope
 AE - Agree with exception

Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
PLUMBING COMMENTS - LAUNDRY FACILITY BUILDING 29						
P-1	GPD	29-C05	Appears the drawing has some plotting issues. Need to verify the size and inverts on the sanitary sewer piping exiting the building has been coordinated with Drawing 29-P01.	A	Will be provided in next submittal	
P-2	GPD	29-C05	See comment P-1. Need to verify water service size has been coordinated with Drawing 29-P01.	A	Will be provided in next submittal	
P-3	GPD	29-S02	Coordinate western-most pipe sleeve with revised sanitary sewer routing on Drawing 29-P01.	A	Will be provided in next submittal	
P-4	GPD	29-P01	For drawing clarity, move text where in conflict with relocated buried sanitary sewer line.	A	Will be provided in next submittal	
P-5	GPD	29-P02	Looks like a plotting issue. The hot water piping system has printed faded or screened compared to the cold water piping.	AE	They are very clear. Both of them has defferent line types. Cold water has single dashed line and hot water has double dashed line.however we will provide clear print to identify both lines separate.	



**100% Design Review
KABUL UNIVERSITY LAUNDRY FACILITY
drawings dated September 30, 2010
WO-LT-0015**

Response Legend
 A - Agree
 D - Disagree
 O - out of scope
 AE - Agree with exception

Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
ELECTRICAL COMMENTS - LAUNDRY FACILITY BUILDING 29						
E-1	JAS	29-E05	In the last line of Note 2 the word HIGH is misspelled. This comment was made during the 65% review and has NOT been corrected.	A	Yes it will be corrected as HIGH in the revised submittal	
E-2	JAS	29-E06	Detail 2, Note 1 - The reference should be to Structural Drawing 29-S05.	A	Yes it is in drawing sheet no. 29 S05 not in S04.This correction will be included in next submittal	
E-3	JAS	Design Analysis (Engineering Report and Calculations)	Design Analysis reviewed. No comments			
E-4	JAS	Specifications	Technical specs reviewed. No comments.			